

# 2000

COMMONWEALTH *of the*  
NORTHERN MARIANA ISLANDS  
STATISTICAL YEARBOOK



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**CENTRAL STATISTICS DIVISION  
DEPARTMENT OF COMMERCE**

## FOREWORD / ACKNOWLEDGEMENT

*We have put together an accurate, comprehensive annual Statistical Yearbook for the CNMI as mandated by the Statistical Act of 1990. All data are organized in a consistent tabular format that we hope you will find easy to follow. Following the List of Figures is a conversion table between the English and Metric systems, for those needing to perform conversions. The information and data contained in this yearbook were obtained from many sources, including: census publications, unpublished manuscripts, annual reports, and administrative reports and records of government offices, agencies and corporations. The appropriate source of data for each table is listed at the lower left margin of each table.*

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# Contents

|            |   |     |
|------------|---|-----|
| CHAPTER 1  | POPULATION .....                                  | 1   |
| CHAPTER 2  | VITAL STATISTICS .....                            | 19  |
| CHAPTER 3  | EDUCATION .....                                   | 29  |
| CHAPTER 4  | LABOR FORCE AND EMPLOYMENT .....                  | 41  |
| CHAPTER 5  | HOUSEHOLD AND .....                               | 61  |
| CHAPTER 6  | ACCIDENTS AND OFFENSES .....                      | 79  |
| CHAPTER 7  | VOTERS AND ELECTIONS .....                        | 87  |
| CHAPTER 8  | TOURISM.....                                      | 97  |
| CHAPTER 9  | HOUSING.....                                      | 107 |
| CHAPTER 10 | TRANSPORTATION AND COMMUNICATION .....            | 129 |
| CHAPTER 11 | FINANCE, BUSINESS ESTABLISHMENTS, AND TRADE ..... | 137 |
| CHAPTER 12 | FISHING AND AGRICULTURE .....                     | 147 |
| CHAPTER 13 | REVENUES AND EXPENDITURES .....                   | 157 |
| CHAPTER 14 | PRICE INDEX .....                                 | 163 |
| CHAPTER 15 | LAND USE .....                                    | 167 |
| CHAPTER 16 | TERRITORIAL COMPARISONS .....                     | 171 |

Chapter 1  
POPULATION

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## Summary of Population Statistics

The population in the Commonwealth of the Northern Mariana Islands (CNMI) increased tremendously between 1980 and 1995. This population growth took place in the islands of Saipan, Rota, and Tinian, but not in the Northern Islands. Since 1935, Saipan's population has risen proportionately more than Rota's and Tinian's population. By 1995, about 90 percent of the CNMI population lived on Saipan, 6 percent lived on Rota, about 5 percent lived on Tinian, and less than one percent lived on the Northern Islands. Therefore, population density increased in Saipan much faster than in Rota and in Tinian; by 1995, population density in Saipan was well over 1,133 persons per square mile, but only 107 and 67 persons per square mile in Rota and in Tinian, respectively.

In Saipan, places of population concentration increased from 1990 to 1995. In 1990, Garapan had 10 percent of Saipan's total population and San Antonio had over 7 percent; by 1995, Garapan's population had increased to about 13 percent, San Antonio's population increased to almost 12 percent, and Chalan Kanoa had over 11 percent of Saipan's total population. In both Rota and Tinian, places of population centers, Songsong and San Jose, respectively remained the same in 1990 and 1995.

Over 62 percent of the population in the CNMI were born elsewhere and migrated into the Commonwealth; most of them came into the CNMI in the second half of the 1980's and into the 1990's. The majority of all immigrants were temporary residents who resided in the Commonwealth under employment visas. The age distribution of the immigrant and CNMI-born population differed substantially. Most immigrants were age 20 to 40 years compared to a CNMI-born population whose median age was only 14.5 years.

Major changes in CNMI population characteristics resulted from the huge influx of immigrants between 1980 and 1995. The characteristics of these migrant workers combined with local population, resulted in major shifts, such as (1) a significant difference in the number of married males than married females, (2) a high proportion of females employed, and (3) a higher median age.

The CNMI population was relatively older in 1995, compared to prior census years: the mean age in 1995 was 28.0 years, compared to 27.4 years in 1990 and 19.6 years in 1980.

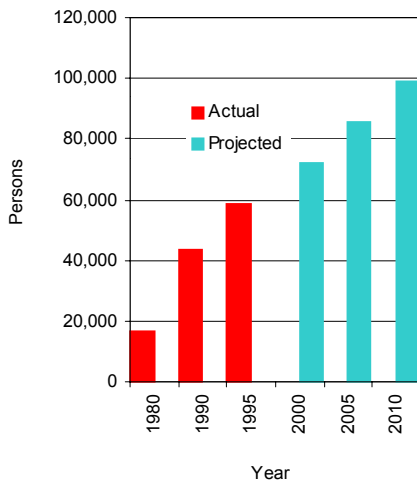
In 1995, The proportion of males and females in the CNMI population was nearly even: the sex ratio in 1995 was 99 males for every 100 females. However, by age group, females outnumbered males in age groups 15-29 years, 70-74 years, and also 75 years and above. The majority of the total population lived in households in 1995. Approximately 19 percent of individuals lived in group quarters in 1995, a decline from 26.4 percent of the total population in 1990.

In 1995, men were more likely than women to be married, due in part to differences in the age structures of both groups. Over 63 percent of men and 50 percent of women were married.

Approximately 38 percent of the population in 1995 were born in the CNMI. The majority of the total population were born outside of the CNMI. Almost half were born in Asian countries (Philippines, China, Korea, Japan, Thailand); over thirty percent of individuals were born in the Philippines alone. In 1980, over 71 percent of the CNMI population were born in the Commonwealth. This shift in birthplaces of persons in the Commonwealth was more pronounced in Saipan than in Rota and Tinian.

In 1995, the Filipino ethnic group was the largest single ethnic group in the Commonwealth; Filipinos outnumbered indigenous Chamorros in 1995. This major demographic change was true in Saipan where the majority of CNMI's population resided. Chamorro was still the most dominant ethnic group in Rota and in Tinian, although not as dominant as in previous Census years. In the Northern Islands, where very few individuals reside, Carolinian was the most dominant ethnic group.

The following tables summarize CNMI's population characteristics in recent years.

**Figure 1.1** CNMI Population, Actual and Projected

### Places of Population Concentration

In Saipan, places of population concentration changed from 1990 to 1995. In 1990, Garapan comprised 11 percent of Saipan's total population and San Antonio comprised over 7%. By 1995,

- Garapan's population had increased to about 13%;
- Chalan Kanoa had increased to almost 12%;
- San Antonio area's population increased to almost 12%;
- Dandan's population increased to over 10%;
- San Vicente's population increased to 8%;
- and Oleai's population increased to almost 8% of Saipan's total population.
- In both Rota and Tinian, places of population concentration remained the same in Songsong and San Jose. However, Sinapalu and Marpo Heights showed population increases in 1995 and in 1990.

**Table 1.1** Population by Island: 1920 to 1995

| Year | Number of persons |        |       |        |       | Percent |        |      |        |       |
|------|-------------------|--------|-------|--------|-------|---------|--------|------|--------|-------|
|      | Total             | Saipan | Rota  | Tinian | N. I. | Total   | Saipan | Rota | Tinian | N. I. |
| 1995 | 58,846            | 52,698 | 3,509 | 2,631  | 8     | 100.0   | 89.6   | 6.0  | 4.5    | 0.0   |
| 1990 | 43,345            | 38,896 | 2,295 | 2,118  | 36    | 100.0   | 89.7   | 5.3  | 4.9    | 0.1   |
| 1980 | 16,780            | 14,549 | 1,261 | 866    | 104   | 100.0   | 86.7   | 7.5  | 5.2    | 0.6   |
| 1973 | 14,333            | 12,382 | 1,104 | 714    | 133   | 100.0   | 86.4   | 7.7  | 5.0    | 0.9   |
| 1967 | 10,986            | 9,035  | 1,078 | 610    | 263   | 100.0   | 82.2   | 9.8  | 5.6    | 2.4   |
| 1958 | 8,290             | 6,654  | 969   | 405    | 262   | 100.0   | 80.3   | 11.7 | 4.9    | 3.2   |
| 1935 | 4,297             | 3,194  | 788   | 24     | 291   | 100.0   | 74.3   | 18.3 | 0.6    | 6.8   |
| 1930 | 3,829             | 2,915  | 644   | 43     | 227   | 100.0   | 76.1   | 16.8 | 1.1    | 5.9   |
| 1925 | 3,493             | 2,639  | 487   | 180    | 187   | 100.0   | 75.6   | 13.9 | 5.2    | 5.4   |
| 1920 | 3,398             | 2,449  | 651   | 112    | 186   | 100.0   | 72.1   | 19.2 | 3.3    | 5.5   |

Source: Census reports for respective years; 1920-1935 for Natives only.

Note: "0.0" means less than 1 percent.

**Table 1.2** Population by Island and Place: 1990 and 1995

| Island and Place | Numbers |        | Percent Change | Percents |       |        |       |
|------------------|---------|--------|----------------|----------|-------|--------|-------|
|                  |         |        |                | CNMI     |       | Saipan |       |
|                  | 1995    | 1990   |                | 1995     | 1990  | 1995   | 1990  |
| Total            | 58,846  | 43,345 | 35.8           | 100.0    | 100.0 | ...    | ...   |
| Saipan           | 52,698  | 38,896 | 35.5           | 89.6     | 89.7  | 100.0  | 100.0 |
| San Roque        | 1,923   | 911    | 111.1          | 3.3      | 2.1   | 3.6    | 2.3   |
| Tanapag          | 1,747   | 1,602  | 9.1            | 3.0      | 3.7   | 3.3    | 4.1   |
| Garapan          | 6,634   | 3,904  | 69.9           | 11.3     | 9.0   | 12.6   | 10.0  |
| Capitol Hill     | 2,698   | 1,234  | 118.6          | 4.6      | 2.8   | 5.1    | 3.2   |
| Kagman           | 1,848   | 390    | 373.8          | 3.1      | 0.9   | 3.5    | 1.0   |
| Oleai            | 3,944   | 839    | 370.1          | 6.7      | 1.9   | 7.5    | 2.2   |
| Susupe           | 2,091   | 1,776  | 17.7           | 3.6      | 4.1   | 4.0    | 4.6   |
| Chalan Kanoa     | 6,229   | 2,549  | 144.4          | 10.6     | 5.9   | 11.8   | 6.6   |
| San Antonio      | 6,256   | 2,887  | 116.7          | 10.6     | 6.7   | 11.9   | 7.4   |
| Koblerville      | 3,346   | 2,811  | 19.0           | 5.7      | 6.5   | 6.3    | 7.2   |
| Dandan           | 5,520   | 901    | 512.7          | 9.4      | 2.1   | 10.5   | 2.3   |
| San Vicente      | 4,210   | 1,669  | 152.2          | 7.2      | 3.9   | 8.0    | 4.3   |
| Guab Rai         | 2,645   | 1,746  | 51.5           | 4.5      | 4.0   | 5.0    | 4.5   |
| Navy Hill        | 3,521   | 419    | 740.3          | 6.0      | 1.0   | 6.7    | 1.1   |
| Rota             | 3,135   | 2,295  | 36.6           | 5.3      | 5.3   | ...    | ...   |
| Tinian           | 2,631   | 2,118  | 24.2           | 4.5      | 4.9   | ...    | ...   |
| Northern I.      | 8       | 36     | -77.8          | 0.0      | 0.1   | ...    | ...   |

Source: 1990 CPH-6-CNMI Table 3, and 1995 CNMI Decade Census Table 28

Note: Not all villages included; hence, they do not sum up to total population.

**Table 1.3 Population Density by Island: 1920 to 1995**

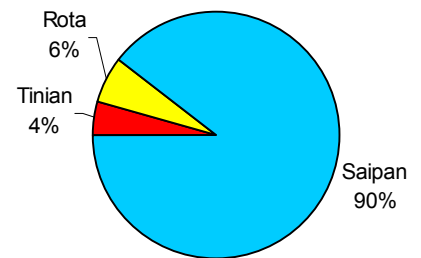
| Census Year | Population |        |       |        |           | Persons Per Square Mile |        |      |        |           |
|-------------|------------|--------|-------|--------|-----------|-------------------------|--------|------|--------|-----------|
|             | Total      | Saipan | Rota  | Tinian | North Is. | Total                   | Saipan | Rota | Tinian | North Is. |
| 1995        | 58,846     | 52,698 | 3,509 | 2,631  | 8         | 333                     | 1,133  | 107  | 67     | 0         |
| 1990        | 43,345     | 38,896 | 2,295 | 2,118  | 36        | 246                     | 836    | 70   | 54     | 1         |
| 1980        | 16,780     | 14,549 | 1,261 | 866    | 104       | 95                      | 313    | 38   | 22     | 2         |
| 1973        | 14,333     | 12,382 | 1,104 | 714    | 133       | 81                      | 266    | 34   | 18     | 2         |
| 1967        | 10,986     | 9,035  | 1,078 | 610    | 263       | 62                      | 194    | 33   | 16     | 5         |
| 1958        | 8,290      | 6,654  | 969   | 405    | 262       | 47                      | 143    | 30   | 10     | 5         |
| 1935        | 4,297      | 3,194  | 788   | 24     | 291       | 24                      | 69     | 24   | 1      | 5         |
| 1930        | 3,829      | 2,915  | 644   | 43     | 227       | 22                      | 63     | 20   | 1      | 4         |
| 1925        | 3,493      | 2,639  | 487   | 180    | 187       | 20                      | 57     | 15   | 5      | 3         |
| 1920        | 3,398      | 2,449  | 651   | 112    | 186       | 19                      | 53     | 20   | 3      | 3         |

Source: Census reports for respective years; 1920-1935 for Natives only

**CNMI Population Density**

Population density has been increasing in Saipan much faster than in Rota or Tinian. By 1995, population density in Saipan was 1,133 persons per square mile compared to 107 persons per square mile in Rota, and 67 in Tinian.

**Figure 1.2 Total Population Distribution by Island, 1995**



**Table 1.4 Age Distribution by Island: 1995**

| Age Group   | Number |        |       |        |        | Percent |        |       |        |        |
|-------------|--------|--------|-------|--------|--------|---------|--------|-------|--------|--------|
|             | Total  | Saipan | Rota  | Tinian | N. Is. | Total   | Saipan | Rota  | Tinian | N. Is. |
| Total       | 58,846 | 52,698 | 3,509 | 2,631  | 8      | 100.0   | 100.0  | 100.0 | 100.0  | ...    |
| 0 to 4      | 6,084  | 5,311  | 393   | 379    | 1      | 10.3    | 10.1   | 11.2  | 14.4   | 12.5   |
| 5 to 9      | 4,619  | 4,004  | 312   | 303    | ...    | 7.8     | 7.6    | 8.9   | 11.5   | ...    |
| 10 to 14    | 3,600  | 3,128  | 262   | 210    | ...    | 6.1     | 5.9    | 7.5   | 8.0    | ...    |
| 15 to 19    | 3,335  | 2,955  | 205   | 175    | ...    | 5.7     | 5.6    | 5.8   | 6.7    | ...    |
| 20 to 24    | 6,406  | 5,886  | 325   | 194    | 1      | 10.9    | 11.2   | 9.3   | 7.4    | 12.5   |
| 25 to 29    | 8,914  | 8,126  | 476   | 311    | 1      | 15.1    | 15.4   | 13.6  | 11.8   | 12.5   |
| 30 to 34    | 7,720  | 7,005  | 411   | 302    | 2      | 13.1    | 13.3   | 11.7  | 11.5   | 25.0   |
| 35 to 39    | 6,465  | 5,826  | 368   | 270    | 1      | 11.0    | 11.1   | 10.5  | 10.3   | 12.5   |
| 40 to 44    | 4,420  | 3,964  | 266   | 190    | ...    | 7.5     | 7.5    | 7.6   | 7.2    | ...    |
| 45 to 49    | 3,040  | 2,705  | 201   | 134    | ...    | 5.2     | 5.1    | 5.7   | 5.1    | ...    |
| 50 to 54    | 1,603  | 1,457  | 92    | 53     | 1      | 2.7     | 2.8    | 2.6   | 2.0    | 12.5   |
| 55 to 59    | 1,053  | 959    | 56    | 38     | ...    | 1.8     | 1.8    | 1.6   | 1.4    | ...    |
| 60 to 64    | 649    | 578    | 45    | 25     | 1      | 1.1     | 1.1    | 1.3   | 1.0    | 12.5   |
| 65 to 69    | 401    | 343    | 37    | 21     | ...    | 0.7     | 0.7    | 1.1   | 0.8    | ...    |
| 70 to 74    | 259    | 227    | 17    | 15     | ...    | 0.4     | 0.4    | 0.5   | 0.6    | ...    |
| 75 and over | 278    | 224    | 43    | 11     | ...    | 0.5     | 0.4    | 1.2   | 0.4    | ...    |
| Median      | 28.0   | 28.1   | 27.7  | 25.9   | 32.5   | ...     | ...    | ...   | ...    | ...    |

Source: 1995 CNM IM 10-Decade Census Table 6

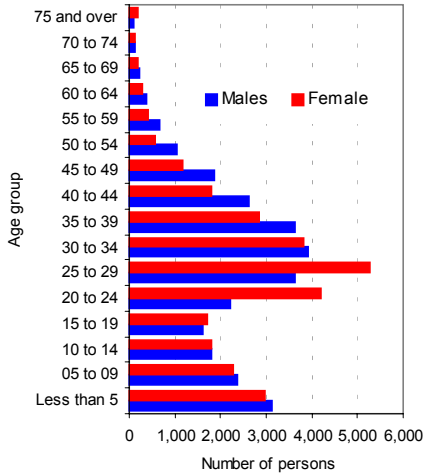
**Median Age**

The population in the CNMI in 1995 was relatively older compared to prior census years: the median age in 1995 was 28.0 years, compared to 27.4 years in 1990 and 19.7 years in 1980.

The main reason for this shift in median age was the presence of a large migrant worker population under 20 to 44 years of age.



**Figure 1.3 Total Population By Age Group and Sex, 1995**

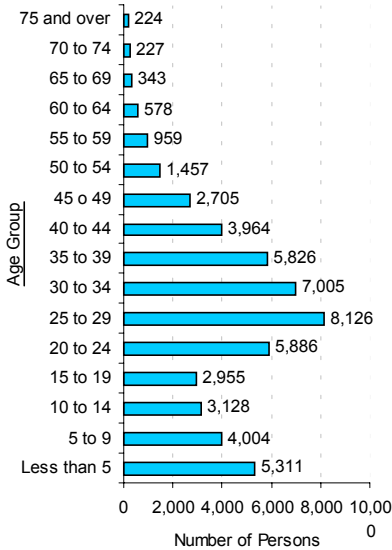


**Table 1.5 Population by Age and Sex, CNMI: 1980, 1990 and 1995**

| Age Group   | Total  |        |        | Males  |        |       | Females |        |       |
|-------------|--------|--------|--------|--------|--------|-------|---------|--------|-------|
|             | 1995   | 1990   | 1980   | 1995   | 1990   | 1980  | 1995    | 1990   | 1980  |
| Total       | 58,846 | 43,345 | 16,780 | 29,276 | 22,802 | 8,817 | 29,570  | 20,543 | 7,963 |
| Less than 5 | 6,084  | 4,139  | 2,464  | 3,114  | 2,130  | 1,274 | 2,970   | 2,009  | 1,190 |
| 5 to 9      | 4,619  | 3,275  | 2,148  | 2,355  | 1,686  | 1,040 | 2,264   | 1,589  | 1,108 |
| 10 to 14    | 3,600  | 2,901  | 2,193  | 1,808  | 1,494  | 1,119 | 1,792   | 1,407  | 1,074 |
| 15 to 19    | 3,335  | 2,773  | 1,703  | 1,616  | 1,215  | 842   | 1,719   | 1,558  | 861   |
| 20 to 24    | 6,406  | 5,624  | 1,512  | 2,198  | 1,832  | 709   | 4,208   | 3,792  | 803   |
| 25 to 29    | 8,914  | 6,140  | 1,463  | 3,631  | 3,134  | 753   | 5,283   | 3,006  | 710   |
| 30 to 34    | 7,720  | 5,878  | 1,303  | 3,903  | 3,330  | 743   | 3,817   | 2,548  | 560   |
| 35 to 39    | 6,465  | 4,330  | 864    | 3,625  | 2,635  | 520   | 2,840   | 1,695  | 344   |
| 40 to 44    | 4,420  | 3,112  | 824    | 2,634  | 2,042  | 520   | 1,786   | 1,070  | 304   |
| 45 to 49    | 3,040  | 1,921  | 660    | 1,872  | 1,352  | 404   | 1,168   | 569    | 256   |
| 50 to 54    | 1,603  | 1,247  | 496    | 1,035  | 861    | 315   | 568     | 386    | 181   |
| 55 to 59    | 1,053  | 771    | 388    | 656    | 466    | 225   | 397     | 305    | 163   |
| 60 to 64    | 649    | 458    | 267    | 378    | 262    | 125   | 271     | 196    | 142   |
| 65 to 69    | 401    | 349    | 228    | 221    | 195    | 119   | 180     | 154    | 109   |
| 70 to 74    | 259    | 190    | 139    | 127    | 85     | 65    | 132     | 105    | 74    |
| 75 and over | 278    | 237    | 128    | 103    | 83     | 44    | 175     | 154    | 84    |
| Median      | 28.0   | 27.4   | 19.7   | 29.9   | 29.9   | 20.9  | 26.7    | 24.9   | 18.3  |

Source: PC 80-1B57A Table 4a, CPH-6-CNM I Table 6, and 1995 CNM IM id-Decade Census Table 6

**Figure 1.4 Saipan Population By Age Group, 1995**



**Table 1.6 Population by Age and Sex, Saipan: 1980, 1990, and 1995**

| Age Group   | Total  |        |        | Males  |        |       | Females |        |       |
|-------------|--------|--------|--------|--------|--------|-------|---------|--------|-------|
|             | 1995   | 1990   | 1980   | 1995   | 1990   | 1980  | 1995    | 1990   | 1980  |
| Total       | 52,698 | 38,900 | 14,549 | 25,881 | 20,306 | 7,586 | 26,817  | 18,594 | 6,963 |
| Less than 5 | 5,311  | 3,591  | 2,122  | 2,716  | 1,847  | 1,094 | 2,595   | 1,744  | 1,028 |
| 5 to 9      | 4,004  | 2,817  | 1,830  | 2,057  | 1,450  | 879   | 1,947   | 1,367  | 951   |
| 10 to 14    | 3,128  | 2,498  | 1,902  | 1,561  | 1,302  | 970   | 1,567   | 1,196  | 932   |
| 15 to 19    | 2,955  | 2,498  | 1,501  | 1,418  | 1,077  | 739   | 1,537   | 1,421  | 762   |
| 20 to 24    | 5,886  | 5,179  | 1,327  | 1,943  | 1,614  | 617   | 3,943   | 3,565  | 710   |
| 25 to 29    | 8,126  | 5,608  | 1,274  | 3,181  | 2,814  | 654   | 4,945   | 2,794  | 620   |
| 30 to 34    | 7,005  | 5,326  | 1,147  | 3,477  | 2,994  | 640   | 3,528   | 2,332  | 507   |
| 35 to 39    | 5,826  | 3,944  | 773    | 3,240  | 2,395  | 459   | 2,586   | 1,549  | 314   |
| 40 to 44    | 3,964  | 2,803  | 724    | 2,362  | 1,832  | 452   | 1,602   | 971    | 272   |
| 45 to 49    | 2,705  | 1,744  | 573    | 1,657  | 1,230  | 348   | 1,048   | 514    | 225   |
| 50 to 54    | 1,457  | 1,144  | 430    | 949    | 797    | 265   | 508     | 347    | 165   |
| 55 to 59    | 959    | 706    | 326    | 604    | 427    | 188   | 355     | 279    | 138   |
| 60 to 64    | 578    | 390    | 221    | 340    | 221    | 101   | 238     | 169    | 120   |
| 65 to 69    | 343    | 302    | 187    | 192    | 172    | 98    | 151     | 130    | 89    |
| 70 to 74    | 227    | 162    | 107    | 108    | 72     | 49    | 119     | 90     | 58    |
| 75 and over | 224    | 188    | 105    | 76     | 62     | 33    | 148     | 126    | 72    |
| Median      | 28.1   | 27.5   | 19.7   |        | 30     |       | 26.8    | 25.0   | 18.7  |

Source: 1980, 1990, and 1995 Census

**Table 1.7 Population by Age and Sex, Rota: 1980, 1990, and 1995**

| Age Group   | Total |       |       | Males |       |      | Females |       |      |
|-------------|-------|-------|-------|-------|-------|------|---------|-------|------|
|             | 1995  | 1990  | 1980  | 1995  | 1990  | 1980 | 1995    | 1990  | 1980 |
| Total       | 3,509 | 2,295 | 1,261 | 2,022 | 1,282 | 696  | 1,487   | 1,013 | 565  |
| Less than 5 | 393   | 277   | 196   | 210   | 147   | 109  | 183     | 130   | 87   |
| 5 to 9      | 312   | 235   | 163   | 163   | 117   | 80   | 149     | 118   | 83   |
| 10 to 14    | 262   | 210   | 149   | 137   | 108   | 75   | 125     | 102   | 74   |
| 15 to 19    | 205   | 149   | 114   | 106   | 75    | 56   | 99      | 74    | 58   |
| 20 to 24    | 325   | 221   | 111   | 162   | 112   | 53   | 163     | 109   | 58   |
| 25 to 29    | 476   | 222   | 113   | 299   | 135   | 61   | 177     | 87    | 52   |
| 30 to 34    | 411   | 287   | 87    | 271   | 174   | 58   | 140     | 113   | 29   |
| 35 to 39    | 368   | 206   | 52    | 227   | 117   | 37   | 141     | 89    | 15   |
| 40 to 44    | 266   | 175   | 60    | 158   | 115   | 41   | 108     | 60    | 19   |
| 45 to 49    | 201   | 93    | 59    | 126   | 61    | 38   | 75      | 32    | 21   |
| 50 to 54    | 92    | 49    | 34    | 58    | 32    | 26   | 34      | 17    | 8    |
| 55 to 59    | 56    | 46    | 29    | 33    | 25    | 17   | 23      | 21    | 12   |
| 60 to 64    | 45    | 44    | 32    | 21    | 26    | 15   | 24      | 18    | 17   |
| 65 to 69    | 37    | 25    | 28    | 20    | 16    | 12   | 17      | 9     | 16   |
| 70 to 74    | 17    | 24    | 16    | 11    | 10    | 8    | 6       | 14    | 8    |
| 75 and over | 43    | 32    | 18    | 20    | 12    | 10   | 23      | 20    | 8    |
| Median      | 28    | 26    | 20    |       | 28    |      | 26      | 24    | 18   |

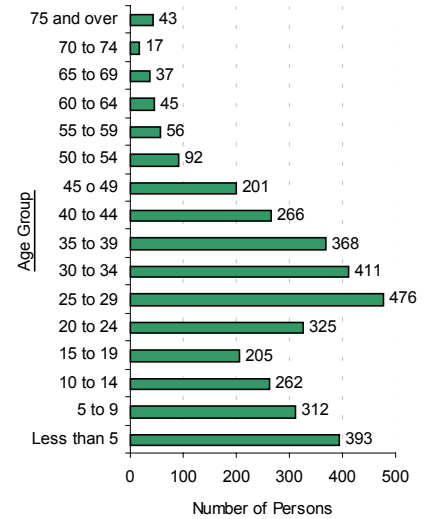
Source: 1995, 1990, and 1980 Census

**Table 1.8 Population by Age and Sex, Tinian: 1980, 1990, and 1995**

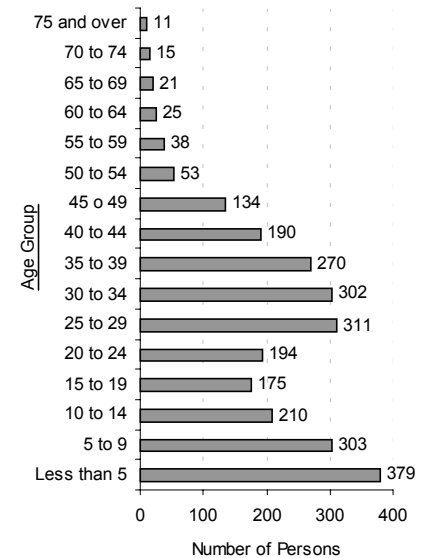
| Age Group   | Total |       |      | Males |       |      | Females |      |      |
|-------------|-------|-------|------|-------|-------|------|---------|------|------|
|             | 1995  | 1990  | 1980 | 1995  | 1990  | 1980 | 1995    | 1990 | 1980 |
| Total       | 2,631 | 2,118 | 866  | 1,368 | 1,200 | 475  | 1,263   | 918  | 391  |
| Less than 5 | 379   | 263   | 130  | 187   | 131   | 61   | 192     | 132  | 69   |
| 5 to 9      | 303   | 219   | 126  | 135   | 117   | 65   | 168     | 102  | 61   |
| 10 to 14    | 210   | 190   | 125  | 110   | 83    | 66   | 100     | 107  | 59   |
| 15 to 19    | 175   | 127   | 79   | 92    | 66    | 41   | 83      | 61   | 38   |
| 20 to 24    | 194   | 220   | 67   | 93    | 103   | 35   | 101     | 117  | 32   |
| 25 to 29    | 311   | 307   | 72   | 151   | 183   | 35   | 160     | 124  | 37   |
| 30 to 34    | 302   | 258   | 61   | 153   | 160   | 40   | 149     | 98   | 21   |
| 35 to 39    | 270   | 179   | 35   | 157   | 123   | 22   | 113     | 56   | 13   |
| 40 to 44    | 190   | 134   | 38   | 114   | 95    | 25   | 76      | 39   | 13   |
| 45 to 49    | 134   | 82    | 26   | 89    | 60    | 17   | 45      | 22   | 9    |
| 50 to 54    | 53    | 53    | 29   | 28    | 31    | 22   | 25      | 22   | 7    |
| 55 to 59    | 38    | 19    | 32   | 19    | 14    | 20   | 19      | 5    | 12   |
| 60 to 64    | 25    | 24    | 13   | 16    | 15    | 8    | 9       | 9    | 5    |
| 65 to 69    | 21    | 22    | 13   | 9     | 7     | 9    | 12      | 15   | 4    |
| 70 to 74    | 15    | 4     | 15   | 8     | 3     | 8    | 7       | 1    | 7    |
| 75 and over | 11    | 17    | 5    | 7     | 9     | 1    | 4       | 8    | 4    |
| Median      | 26    | 26    | 18   |       | 28    |      | 24      | 23   | 16   |

Source: 1995, 1990, and 1980 Census

**Figure 1.5 Rota Population By Age Group, 1995**



**Figure 1.6 Tinian Population By Age Group, 1995**



### Male-Female Ratio

In 1995, the number of total males was about the same as total number of females with a male-female ratio of 99 males to every 100 females. By age, however, females greatly outnumbered males in the age groups 15-29 years and 70 years and over; males outnumbered females in age group 30-69 years. This is mainly because of the age-sex distribution of the nonresident workers in the CNMI. Nearly all garment workers were females between 19-29 years old, causing females to outnumber males in this age group.

**Table 1.9 Males per 100 Females by Island: 1990 and 1995**

| Age Group   | 1995  |        |      |        | 1990  |        |      |        |
|-------------|-------|--------|------|--------|-------|--------|------|--------|
|             | Total | Saipan | Rota | Tinian | Total | Saipan | Rota | Tinian |
| Total       | 99    | 97     | 136  | 108    | 111   | 109    | 127  | 131    |
| 0 to 4      | 105   | 105    | 115  | 97     | 106   | 106    | 113  | 99     |
| 5 to 9      | 104   | 106    | 109  | 80     | 106   | 106    | 99   | 115    |
| 10 to 14    | 101   | 100    | 110  | 110    | 106   | 109    | 106  | 78     |
| 15 to 19    | 94    | 92     | 107  | 111    | 78    | 75     | 101  | 108    |
| 20 to 24    | 52    | 49     | 99   | 92     | 48    | 45     | 103  | 88     |
| 25 to 29    | 69    | 64     | 169  | 94     | 104   | 101    | 155  | 148    |
| 30 to 34    | 102   | 99     | 194  | 103    | 131   | 128    | 154  | 163    |
| 35 to 39    | 128   | 125    | 161  | 139    | 155   | 155    | 131  | 220    |
| 40 to 44    | 147   | 147    | 146  | 150    | 191   | 189    | 192  | 244    |
| 45 to 49    | 160   | 158    | 168  | 198    | 238   | 239    | 191  | 273    |
| 50 to 54    | 182   | 187    | 171  | 112    | 223   | 230    | 188  | 141    |
| 55 to 59    | 165   | 170    | 143  | 100    | 153   | 153    | 119  | 280    |
| 60 to 64    | 139   | 143    | 88   | 178    | 134   | 131    | 144  | 167    |
| 65 to 69    | 123   | 127    | 118  | 75     | 127   | 132    | 178  | 47     |
| 70 to 74    | 96    | 91     | 183  | 114    | 81    | 80     | 71   | 300    |
| 75 and over | 59    | 51     | 87   | 175    | 54    | 49     | 60   | 112    |

Source: 1995 CNM IM II-Decade Census Table 6, 1990 CPH-6-CNMI, Table 6

### Household Relationships

Of the 47,656 persons who lived in households in 1995,

- 17% were family householders of which about 1 of 4 was female);
- 8% were non-family householders of which about 1 of 4 was female;
- 33% were children; and
- interestingly, 17% were persons not related to the householder.

**Table 1.10 Household Relationship by Island: 1995**

| Relationship           | Total  | Island |       |        |          |
|------------------------|--------|--------|-------|--------|----------|
|                        |        | Saipan | Rota  | Tinian | North. E |
| All persons            | 58,846 | 52,698 | 3,509 | 2,631  | 8        |
| In households          | 47,656 | 42,060 | 3,075 | 2,513  | 8        |
| Percent                | 81.0   | 79.8   | 87.6  | 95.5   | 100.0    |
| Family householder     | 8,257  | 7,388  | 462   | 406    | 1        |
| Male                   | 6,527  | 5,825  | 367   | 334    | 1        |
| Female                 | 1,730  | 1,563  | 95    | 72     | 0        |
| Non-family householder | 3,801  | 3,457  | 228   | 116    | 0        |
| Male non-family        | 2,716  | 2,431  | 195   | 90     | 0        |
| Female non-family      | 1,085  | 1,026  | 33    | 26     | 0        |
| Spouse                 | 6,159  | 5,508  | 323   | 327    | 1        |
| Child                  | 16,072 | 14,010 | 1,091 | 968    | 3        |
| Parent                 | 257    | 219    | 29    | 9      | 0        |
| Other relatives        | 5,077  | 4,506  | 309   | 260    | 2        |
| Nonrelatives           | 8,033  | 6,972  | 633   | 427    | 1        |

Source: 1995 CNM IM II-Decade Census Table 7

**Table 1.11 Household Relationship by Island: 1990**

| Relationship         | Total  | Island |       |        |            |
|----------------------|--------|--------|-------|--------|------------|
|                      |        | Saipan | Rota  | Tinian | North. Is. |
| All persons          | 43,345 | 38,896 | 2,295 | 2,118  | 36         |
| In households        | 31,856 | 27,940 | 2,006 | 1,874  | 36         |
| Percent              | 73.5   | 71.8   | 87.4  | 88.5   | 100.0      |
| In Family household  | 5,312  | 4,702  | 327   | 277    | 6          |
| Male                 | 4,061  | 3,547  | 270   | 239    | 5          |
| Female               | 1,251  | 1,155  | 57    | 38     | 1          |
| Non-family household | 1,561  | 1,383  | 89    | 89     | 0          |
| Male non-family      | 1,167  | 1,028  | 71    | 68     | 0          |
| Female non-family    | 394    | 355    | 18    | 21     | 0          |
| Spouse               | 3,947  | 3,510  | 240   | 192    | 5          |
| Child                | 11,949 | 10,324 | 824   | 785    | 16         |
| Grandchild           | 1,380  | 1,226  | 96    | 57     | 1          |
| Parent               | 233    | 204    | 21    | 8      | 0          |
| Other relatives      | 2,848  | 2,621  | 118   | 104    | 5          |
| Nonrelatives         | 4,626  | 3,970  | 291   | 362    | 3          |

Source: 1990 CPH-6-CNMI, Table 7

**Table 1.12 Marital Status by Sex and Place of Birth: 1995**

| Marital Status         | All persons | Place of Birth |       |     |        |           |           |
|------------------------|-------------|----------------|-------|-----|--------|-----------|-----------|
|                        |             | CNMI           | Palau | FSM | Asia   | Guam / US | Elsewhere |
| Males, 15 yrs & over   | 21,999      | 5,567          | 581   | 740 | 13,381 | 1,559     | 171       |
| Never married          | 7,265       | 2,040          | 212   | 293 | 4,185  | 488       | 47        |
| Now married            | 13,949      | 3,240          | 353   | 425 | 8,871  | 943       | 117       |
| Separated/Divorced     | 591         | 194            | 15    | 16  | 243    | 116       | 7         |
| Widowed                | 194         | 93             | 1     | 6   | 82     | 12        | 0         |
| Females, 15 yrs & over | 22,544      | 5,286          | 660   | 836 | 14,506 | 1,097     | 159       |
| Never married          | 9,774       | 1,823          | 207   | 303 | 7,002  | 390       | 49        |
| Now married            | 11,283      | 2,843          | 352   | 453 | 6,934  | 609       | 92        |
| Separated/Divorced     | 712         | 256            | 38    | 35  | 296    | 76        | 11        |
| Widowed                | 775         | 364            | 63    | 45  | 274    | 22        | 7         |

Source: 1995 CNMI Decade Census Table 72

**Household Relationships**

In 1990, about three-quarters (73.5%) of all CNMI Residents lived in household unit and 26.5% resided in group quarters. Approximately 17% of all persons living in households stayed with family members only. Thirty-eight (38%) percent of householders were children aged 17 and under.

**Marital Status**

Sixty three percent of males were currently married, while only 50% of females were married in 1995. The disparity between married males and married females reflected the different age distribution of male and female populations in the Commonwealth in 1995. A greater proportion of total females, compared to males, were in age group 20-29 years who were less likely to be married; while a greater proportion of males were in age group 30-44 years, who were more likely to be married.

**Fertility**

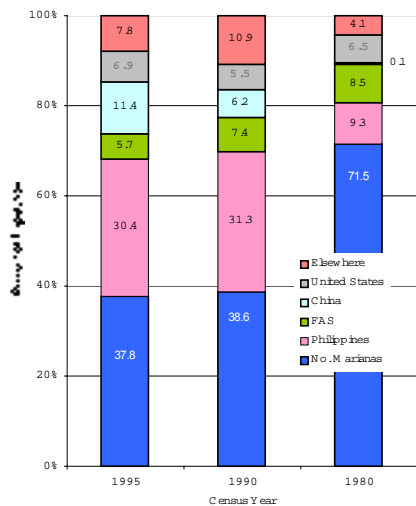
As expected, the fertility rate was highest among women aged 45 to 49 years in 1995. This cohort had an average of 337 children ever born. CNMI-born women aged 45 to 49 years had the highest among women aged 45 to 49 years in 1995. This cohort had an average of 3.37 children ever born. CNMI-born women aged 45 to 49 years had the highest fertility rate (4.57 children ever born).

**Table 1.13 Fertility by Age Group and Place of Birth: 1995**

| Fertility                | Total | Place of Births |       |     |             |       |             |
|--------------------------|-------|-----------------|-------|-----|-------------|-------|-------------|
|                          |       | CNMI            | Palau | FSM | Philippines | Korea | Guam / U.S. |
| Women 15 to 19 yrs       | 1,719 | 914             | 65    | 105 | 159         | 78    | 153         |
| Children ever born       | 325   | 249             | 11    | 16  | 21          | 3     | 21          |
| Children still alive     | 300   | 224             | 11    | 16  | 21          | 3     | 21          |
| Children born in last yr | 134   | 99              | 5     | 8   | 12          | 0     | 10          |
| Women 20 to 24 yrs       | 4,208 | 784             | 75    | 144 | 858         | 97    | 158         |
| Children ever born       | 1,531 | 930             | 55    | 92  | 202         | 11    | 111         |
| Children still alive     | 1,521 | 925             | 55    | 91  | 201         | 11    | 109         |
| Children born in last yr | 347   | 192             | 14    | 19  | 72          | 3     | 24          |
| Women 25 to 29 yrs       | 5,283 | 722             | 105   | 151 | 1,784       | 113   | 171         |
| Children ever born       | 4,353 | 1,587           | 151   | 250 | 1,075       | 79    | 221         |
| Children still alive     | 4,303 | 1,573           | 151   | 250 | 1,056       | 77    | 212         |
| Children born in last yr | 487   | 140             | 26    | 34  | 194         | 24    | 20          |
| Women 30 to 34 yrs       | 3,817 | 595             | 93    | 133 | 1,706       | 110   | 169         |
| Children ever born       | 5,430 | 1,617           | 199   | 324 | 2,105       | 142   | 302         |
| Children still alive     | 5,365 | 1,594           | 198   | 316 | 2,081       | 142   | 295         |
| Children born in last yr | 378   | 61              | 11    | 11  | 217         | 13    | 24          |
| Women 35 to 39 yrs       | 2,840 | 607             | 84    | 107 | 1,317       | 126   | 126         |
| Children ever born       | 5,982 | 2,083           | 239   | 376 | 2,390       | 219   | 281         |
| Children still alive     | 5,871 | 2,053           | 237   | 359 | 2,336       | 218   | 278         |
| Children born in last yr | 158   | 23              | 8     | 12  | 87          | 4     | 11          |
| Women 40 to 44 yrs       | 1,786 | 476             | 73    | 59  | 818         | 93    | 110         |
| Children ever born       | 4,972 | 1,878           | 286   | 237 | 1,947       | 172   | 290         |
| Children still alive     | 4,870 | 1,825           | 280   | 233 | 1,918       | 172   | 283         |
| Children born in last yr | 31    | 6               | 0     | 1   | 19          | 1     | 4           |
| Women 45 to 49 yrs       | 1,168 | 407             | 57    | 40  | 482         | 52    | 75          |
| Children ever born       | 3,939 | 1,862           | 247   | 216 | 1,245       | 121   | 154         |
| Children still alive     | 3,821 | 1,779           | 244   | 205 | 1,235       | 120   | 146         |
| Children born in last yr | 2     | 2               | 0     | 0   | 0           | 0     | 0           |

Source: 1995 Mid-Decade Census Table 73

**Figure 1.7 Percentage of Total Population by Place of Birth in 1980, 1990 and 1995**



**Table 1.14 Selected Places of Birth: 1980, 1990 and 1995**

| Birthplace        | Number |        |        | Percent Change 1990 to 1995 | Percent Change 1980 to 1990 | Percentage |       |       |
|-------------------|--------|--------|--------|-----------------------------|-----------------------------|------------|-------|-------|
|                   | 1995   | 1990   | 1980   |                             |                             | 1995       | 1990  | 1980  |
| Total             | 58,846 | 43,345 | 16,780 | 35.8                        | 158.3                       | 100.0      | 100.0 | 100.0 |
| Northern Marianas | 22,220 | 16,752 | 11,993 | 32.6                        | 39.7                        | 37.8       | 38.6  | 71.5  |
| Philippines       | 17,866 | 13,563 | 1,564  | 31.7                        | 767.2                       | 30.4       | 31.3  | 9.3   |
| FSM               | 1,961  | 1,817  | 769    | 7.9                         | 136.3                       | 3.3        | 4.2   | 4.6   |
| China             | 6,715  | 2,707  | 18     | 148.1                       | 14938.9                     | 11.4       | 6.2   | 0.1   |
| Palau             | 1,409  | 1,407  | 659    | 0.1                         | 113.5                       | 2.4        | 3.2   | 3.9   |
| United States     | 4,061  | 2,393  | 1,084  | 69.7                        | 120.8                       | 6.9        | 5.5   | 6.5   |
| Other Asia        | 4,200  | 4,340  | 333    | -3.2                        | 1203.3                      | 7.1        | 10.0  | 2.0   |
| Elsewhere         | 414    | 366    | 360    | 13.1                        | 1.7                         | 0.7        | 0.8   | 2.1   |

Source: 1980 Census Table 23, 1990 CPH-6-CNMI Table 9, and 1995 CNMI Mid-Decade Census Table 11

**Table 1.15 Place of Birth by Island: 1995**

| Place of Birth           | Number |        |       |        |         | Percent |        |       |        |         |
|--------------------------|--------|--------|-------|--------|---------|---------|--------|-------|--------|---------|
|                          | Total  | Saipan | Rota  | Tinian | No. Is. | Total   | Saipan | Rota  | Tinian | No. Is. |
| All persons              | 58,846 | 52,698 | 3,509 | 2,631  | 8       | 100.0   | 100.0  | 100.0 | 100.0  | 100.0   |
| Northern Mariana Islands | 22,246 | 19,084 | 1,683 | 1,434  | 7       | 37.8    | 36.2   | 48.0  | 54.5   | 87.5    |
| Guam                     | 1,608  | 1,187  | 290   | 128    | 0       | 2.7     | 2.3    | 8.3   | 4.9    | 0.0     |
| Palau                    | 1,411  | 1,385  | 10    | 14     | 0       | 2.4     | 2.6    | 0.3   | 0.5    | 0.0     |
| FSM                      | 1,964  | 1,872  | 37    | 51     | 1       | 3.3     | 3.6    | 1.1   | 1.9    | 12.5    |
| Chuuk                    | 1,044  | 1,020  | 18    | 3      | 1       | 1.8     | 1.9    | 0.5   | 0.1    | 12.5    |
| Kosrae                   | 48     | 45     | 2     | 1      | 0       | 0.1     | 0.1    | 0.1   | 0.0    | 0.0     |
| Pohnpei                  | 563    | 541    | 16    | 5      | 0       | 1.0     | 1.0    | 0.5   | 0.2    | 0.0     |
| Yap                      | 295    | 251    | 1     | 42     | 0       | 0.5     | 0.5    | 0.0   | 1.6    | 0.0     |
| Marshall Islands         | 122    | 119    | 3     | 0      | 0       | 0.2     | 0.2    | 0.1   | 0.0    | 0.0     |
| Other Pacific Islands    | 88     | 86     | 1     | 1      | 0       | 0.1     | 0.2    | 0.0   | 0.0    | 0.0     |
| Asia                     | 28,841 | 26,543 | 1,357 | 892    | 0       | 49.0    | 50.4   | 38.7  | 33.9   | 0.0     |
| Japan                    | 956    | 922    | 25    | 7      | 0       | 1.6     | 1.7    | 0.7   | 0.3    | 0.0     |
| Korea                    | 1,912  | 1,859  | 4     | 46     | 0       | 3.2     | 3.5    | 0.1   | 1.7    | 0.0     |
| China                    | 6,731  | 6,675  | 8     | 37     | 0       | 11.4    | 12.7   | 0.2   | 1.4    | 0.0     |
| Philippines              | 17,900 | 15,913 | 1,168 | 789    | 0       | 30.4    | 30.2   | 33.3  | 30.0   | 0.0     |
| Bangladesh               | 460    | 315    | 143   | 1      | 0       | 0.8     | 0.6    | 4.1   | 0.0    | 0.0     |
| Thailand                 | 558    | 554    | 3     | 0      | 0       | 0.9     | 1.1    | 0.1   | 0.0    | 0.0     |
| Other Asia               | 324    | 305    | 6     | 12     | 0       | 0.5     | 0.6    | 0.2   | 0.5    | 0.0     |
| United States            | 2,446  | 2,210  | 123   | 109    | 0       | 4.2     | 4.2    | 3.5   | 4.1    | 0.0     |
| Other US Insular Areas   | 15     | 15     | 0     | 0      | 0       | 0.0     | 0.0    | 0.0   | 0.0    | 0.0     |
| Elsewhere                | 204    | 197    | 5     | 2      | 0       | 0.3     | 0.4    | 0.1   | 0.1    | 0.0     |

Source: 1995 CNM IM 11-Decade Census Table 11

**Place of Birth**

In 1995, 38% of the population were born in the CNMI. The majority of the total population were born outside of the CNMI. Almost half were born in Asian countries (Philippines, Japan, Korea, China, Thailand)—thirty percent were born in the Philippines alone.

**Gender by Place of Birth**

The proportion of males and females by birthplace varied in 1995, as

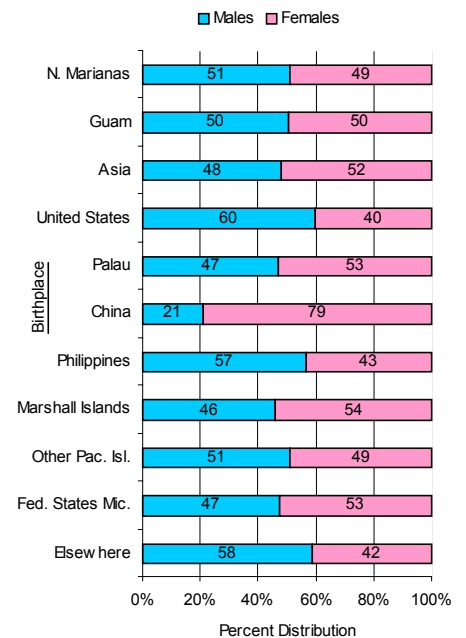
- 79% of those born in China were female;
- 60% of those born in the United States were male;
- 57% of those born in the Philippines were male;
- 55% of those born in Chuuk, FSM and Palau were female; and
- 51% of CNMI-born were male.

**Table 1.16 Place of Birth by Sex, CNMI: 1995**

| Place of Birth         | Number |        |         | Percent |       |         |
|------------------------|--------|--------|---------|---------|-------|---------|
|                        | Total  | Males  | Females | Total   | Males | Females |
| Total                  | 58,846 | 29,276 | 29,570  | 100.0   | 100.0 | 100.0   |
| Northern Marianas      | 22,208 | 11,346 | 10,862  | 37.7    | 38.8  | 36.7    |
| Guam                   | 1,605  | 807    | 798     | 2.7     | 2.8   | 2.7     |
| Asia                   | 28,792 | 13,844 | 14,948  | 48.9    | 47.3  | 50.6    |
| Philippines            | 17,870 | 10,112 | 7,758   | 30.4    | 34.5  | 26.2    |
| China                  | 6,720  | 1,390  | 5,330   | 11.4    | 4.7   | 18.0    |
| Korea                  | 1,909  | 998    | 911     | 3.2     | 3.4   | 3.1     |
| United States          | 2,442  | 1,458  | 984     | 4.1     | 5.0   | 3.3     |
| Palau                  | 1,409  | 663    | 746     | 2.4     | 2.3   | 2.5     |
| Marshall Islands       | 122    | 56     | 66      | 0.2     | 0.2   | 0.2     |
| Other Pac. Islands     | 88     | 45     | 43      | 0.1     | 0.2   | 0.1     |
| Fed. States Micronesia | 1,961  | 929    | 1,032   | 3.3     | 3.2   | 3.5     |
| Kosrae                 | 48     | 25     | 23      | 0.1     | 0.1   | 0.1     |
| Pohnpei                | 562    | 271    | 291     | 1.0     | 0.9   | 1.0     |
| Chuuk                  | 1,042  | 473    | 569     | 1.8     | 1.6   | 1.9     |
| Yap                    | 294    | 153    | 141     | 0.5     | 0.5   | 0.5     |
| Elsewhere              | 219    | 128    | 91      | 0.4     | 0.4   | 0.3     |

Source: 1995 CNM IM 11-Decade Census Table 11

**Figure 1.8 Total Population Percent Distribution by Place of Births and by Sex: 1995**



**Place of Birth by Sex in Saipan**

Gender distribution by place of birth mirrors CNMI's population trends since approximately 90% of individuals live on Saipan, the region's capital.

**Table 1.17 Place of Birth by Sex, Saipan: 1995**

| Birthplace             | Number |        |         | Percent |       |         |
|------------------------|--------|--------|---------|---------|-------|---------|
|                        | Total  | Males  | Females | Total   | Males | Females |
| Total                  | 52,698 | 25,881 | 26,817  | 100     | 100   | 100     |
| Northern Marianas      | 19,096 | 9,744  | 9,352   | 36.2    | 37.6  | 34.9    |
| Guam                   | 1,186  | 594    | 592     | 2.3     | 2.3   | 2.2     |
| Asia                   | 26,532 | 12,470 | 14,062  | 50.3    | 48.2  | 52.4    |
| Philippines            | 15,909 | 8,978  | 6,931   | 30.2    | 34.7  | 25.8    |
| China                  | 6,670  | 1,357  | 5,313   | 12.7    | 5.2   | 19.8    |
| Korea                  | 1,859  | 977    | 882     | 3.5     | 3.8   | 3.3     |
| Other Asia             | 2,094  | 1,158  | 936     | 4.0     | 4.5   | 3.5     |
| United States          | 2,225  | 1,324  | 901     | 4.2     | 5.1   | 3.4     |
| Palau                  | 1,385  | 647    | 738     | 2.6     | 2.5   | 2.8     |
| Marshall Islands       | 119    | 56     | 63      | 0.2     | 0.2   | 0.2     |
| Other Pac. Islands     | 86     | 44     | 42      | 0.2     | 0.2   | 0.2     |
| Fed. States Micronesia | 1,872  | 888    | 984     | 3.5     | 3.4   | 3.6     |
| Kosrae                 | 45     | 24     | 21      | 0.1     | 0.1   | 0.1     |
| Pohnpei                | 541    | 261    | 280     | 1.0     | 1.0   | 1.0     |
| Chuuk                  | 1,020  | 462    | 558     | 1.9     | 1.8   | 2.1     |
| Yap                    | 251    | 134    | 117     | 0.5     | 0.5   | 0.4     |
| Elsewhere              | 197    | 114    | 83      | 0.4     | 0.4   | 0.3     |

Source: 1995 CNM IM ii-Decade Census Table 11

**Place of Birth by Sex in Rota**

In 1995, males comprised the majority of all Rota residents (58%). Specifically,

- 52% of CNMI-born Rota residents were male;
- 66% of these born in Asia were male;
- 58% of US-born were male.

**Table 1.18 Place of Birth by Sex, Rota: 1995**

| Birthplace             | Number |       |         | Percent |       |         |
|------------------------|--------|-------|---------|---------|-------|---------|
|                        | Total  | Males | Females | Total   | Males | Females |
| Total                  | 3,509  | 2,022 | 1,487   | 100     | 100   | 100     |
| Northern Marianas      | 1,683  | 880   | 803     | 48.0    | 43.5  | 54.0    |
| Guam                   | 290    | 149   | 141     | 8.3     | 7.4   | 9.5     |
| Asia                   | 1,357  | 891   | 466     | 39      | 44.1  | 31      |
| Philippines            | 1,168  | 716   | 452     | 33.3    | 35.4  | 30.4    |
| China                  | 8      | 8     | 0       | 0.2     | 0.4   | 0.0     |
| Korea                  | 4      | 2     | 2       | 0.1     | 0.1   | 0.1     |
| Other Asia             | 177    | 165   | 12      | 5.0     | 8.2   | 0.8     |
| United States          | 123    | 72    | 51      | 3.5     | 3.6   | 3.4     |
| Palau                  | 10     | 7     | 3       | 0.3     | 0.3   | 0.2     |
| Marshall Islands       | 3      | 0     | 3       | 0.1     | 0.0   | 0.2     |
| Other Pac. Islands     | 1      | 1     | 0       | 0.0     | 0.0   | 0.0     |
| Fed. States Micronesia | 37     | 19    | 18      | 1       | 1     | 1       |
| Kosrae                 | 2      | 1     | 1       | 0.1     | 0.0   | 0.1     |
| Pohnpei                | 16     | 7     | 9       | 0.5     | 0.3   | 0.6     |
| Chuuk                  | 18     | 10    | 8       | 0.5     | 0.5   | 0.5     |
| Yap                    | 1      | 1     | 0       | 0.0     | 0.0   | 0.0     |
| Elsewhere              | 5      | 3     | 2       | 0.1     | 0.1   | 0.1     |

Source: 1995 CNM IM ii-Decade Census Table 11

**Table 1.19 Place of Birth by Sex, Tinian: 1995**

| Birthplace             | Number |       |         | Percent |       |         |
|------------------------|--------|-------|---------|---------|-------|---------|
|                        | Total  | Males | Females | Total   | Males | Females |
| Total                  | 2,631  | 1,368 | 1,263   | 100     | 100   | 100     |
| Northern Marianas      | 1,434  | 722   | 712     | 54.5    | 52.8  | 56.4    |
| Guam                   | 128    | 64    | 64      | 4.9     | 4.7   | 5.1     |
| Asia                   | 892    | 479   | 413     | 34      | 35.0  | 33      |
| Philippines            | 789    | 418   | 371     | 30.0    | 30.6  | 29.4    |
| China                  | 37     | 23    | 14      | 1.4     | 1.7   | 1.1     |
| Korea                  | 46     | 19    | 27      | 1.7     | 1.4   | 2.1     |
| Other Asia             | 20     | 19    | 1       | 0.8     | 1.4   | 0.1     |
| United States          | 109    | 72    | 37      | 4.1     | 5.3   | 2.9     |
| Palau                  | 14     | 9     | 5       | 0.5     | 0.7   | 0.4     |
| Marshall Islands       | 0      | 0     | 0       | 0.0     | 0.0   | 0.0     |
| Other Pac. Islands     | 1      | 0     | 1       | 0.0     | 0.0   | 0.1     |
| Fed. States Micronesia | 51     | 21    | 30      | 2       | 2     | 2       |
| Kosrae                 | 1      | 0     | 1       | 0.0     | 0.0   | 0.1     |
| Pohnpei                | 5      | 3     | 2       | 0.2     | 0.2   | 0.2     |
| Chuuk                  | 3      | 0     | 3       | 0.1     | 0.0   | 0.2     |
| Yap                    | 42     | 18    | 24      | 1.6     | 1.3   | 1.9     |
| Elsewhere              | 2      | 1     | 1       | 0.1     | 0.1   | 0.1     |

Source: 1995 CNM IM ii-Decade Census Table 11

**Table 1.20 Age by Place of Birth: 1995**

| Age Group         | Total  | CNMI   | Palau | FSM   | Asia   |             |       | Guam / US | Elsewhere |
|-------------------|--------|--------|-------|-------|--------|-------------|-------|-----------|-----------|
|                   |        |        |       |       | Total  | Philippines | Korea |           |           |
| All persons       | 58,846 | 22,220 | 1,409 | 1,961 | 28,781 | 17,866      | 1,909 | 4,061     | 414       |
| Less than 5 years | 6,084  | 5,452  | 36    | 63    | 190    | 99          | 48    | 328       | 15        |
| 5 to 9 years      | 4,619  | 3,542  | 63    | 136   | 316    | 173         | 93    | 525       | 37        |
| 10 to 14 years    | 3,600  | 2,361  | 69    | 186   | 399    | 206         | 149   | 553       | 32        |
| 15 to 19 years    | 3,335  | 1,940  | 140   | 210   | 715    | 300         | 140   | 303       | 27        |
| 20 to 24 years    | 6,406  | 1,533  | 157   | 258   | 4,132  | 1,345       | 164   | 295       | 31        |
| 25 to 29 years    | 8,914  | 1,471  | 201   | 294   | 6,522  | 3,360       | 231   | 379       | 47        |
| 30 to 34 years    | 7,720  | 1,283  | 181   | 239   | 5,584  | 3,856       | 236   | 370       | 63        |
| 35 to 39 years    | 6,465  | 1,252  | 168   | 185   | 4,476  | 3,399       | 264   | 334       | 50        |
| 40 to 44 years    | 4,420  | 1,007  | 119   | 121   | 2,850  | 2,287       | 197   | 290       | 33        |
| 45 to 49 years    | 3,040  | 827    | 98    | 80    | 1,768  | 1,466       | 133   | 239       | 28        |
| 50 to 54 years    | 1,603  | 354    | 61    | 71    | 908    | 722         | 107   | 190       | 19        |
| 55 to 59 years    | 1,053  | 351    | 41    | 50    | 478    | 358         | 69    | 121       | 12        |
| 60 to 64 years    | 649    | 313    | 25    | 23    | 231    | 172         | 29    | 49        | 8         |
| 65 to 69 years    | 401    | 214    | 15    | 18    | 117    | 74          | 22    | 35        | 2         |
| 70 to 74 years    | 259    | 144    | 16    | 18    | 52     | 28          | 15    | 23        | 6         |
| 75 to 79 years    | 144    | 90     | 14    | 7     | 21     | 9           | 7     | 11        | 1         |
| 80 to 84 years    | 86     | 54     | 3     | 2     | 16     | 8           | 4     | 8         | 3         |
| 85 years and over | 48     | 32     | 2     | 0     | 6      | 4           | 1     | 8         | 0         |
| Median Age        | 28.0   | 14.5   | 31.1  | 27.2  | 31.9   | 34.5        | 32.7  | 25.3      | 31.4      |

Source: 1995 CNM IM ii-Decade Census Table 72

**Place of Birth by Sex in Tinian**

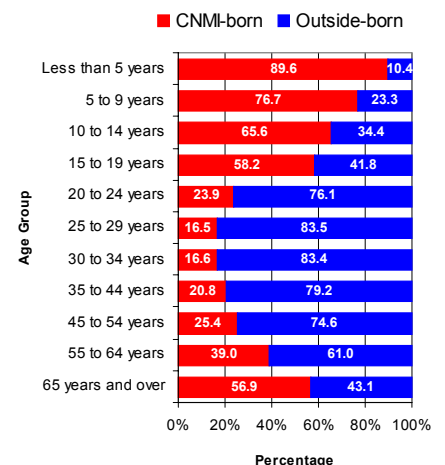
In 1995, males comprised the majority (52%) of all Tinian residents. Census data indicated that:

- half of CNMI-born Tinian residents were male;
- 53% of Philippines-born individuals were male;
- 66% of US-born individuals were male; and
- 59% of these born in the FSM were female.

**Median Age, 1995**

CNMI's median age was 28 years in 1995. Therefore, half of all persons were younger than 28 years and half were older than 28 years of age. The median age for CNMI-born persons was much lower (14.5 years) than for any other nationality group. The median age for migrants born in the Philippines was highest at 34.5 years.

**Figure 1.9 Percent Born within and Born Outside CNMI By Age Group in 1995**





**Median Age, 1990**

CNMI's overall median age (27.4) was lower in 1990 than in 1995, due mostly to the rapid immigrations of Asian's. The median age among CNMI born individuals decreased from 16.0 years in 1990 to 14.5 years in 1995. Median ages among US and Korean-born persons also changed dramatically during the five year period.

**Table 1.21 Age by Place of Birth: 1990**

| Age Group         | Total  | Place of Birth |       |             |       |       |               |       |       |           |
|-------------------|--------|----------------|-------|-------------|-------|-------|---------------|-------|-------|-----------|
|                   |        | CNMI           | Guam  | Philippines | China | Korea | United States | Paku  | FSM   | Elsewhere |
| All persons       | 43,345 | 16,752         | 1,122 | 13,563      | 2,707 | 2,559 | 1,271         | 1,407 | 1,817 | 2,147     |
| Less than 5 years | 4,139  | 3,515          | 245   | 48          | 2     | 39    | 110           | 58    | 63    | 59        |
| 5 to 9 years      | 3,275  | 2,395          | 259   | 97          | 6     | 95    | 160           | 49    | 143   | 71        |
| 10 to 14 years    | 2,901  | 2,104          | 168   | 101         | 1     | 101   | 91            | 115   | 153   | 67        |
| 15 to 19 years    | 2,773  | 1,613          | 133   | 164         | 136   | 238   | 51            | 148   | 233   | 57        |
| 20 to 24 years    | 5,624  | 1,384          | 92    | 1,408       | 1,102 | 724   | 62            | 218   | 304   | 330       |
| 25 to 29 years    | 6,140  | 1,157          | 54    | 2,898       | 541   | 397   | 95            | 201   | 272   | 525       |
| 30 to 34 years    | 5,878  | 1,133          | 51    | 2,949       | 547   | 315   | 125           | 185   | 183   | 390       |
| 35 to 44 years    | 7,442  | 1,688          | 66    | 3,880       | 308   | 360   | 301           | 221   | 214   | 404       |
| 45 to 54 years    | 3,168  | 748            | 23    | 1,601       | 34    | 197   | 183           | 108   | 129   | 145       |
| 55 to 59 years    | 771    | 294            | 11    | 269         | 16    | 39    | 43            | 29    | 31    | 39        |
| 60 to 64 years    | 458    | 240            | 7     | 85          | 4     | 17    | 21            | 24    | 34    | 26        |
| 65 years and over | 776    | 481            | 13    | 63          | 10    | 37    | 29            | 51    | 58    | 34        |
| Median Age        | 27.4   | 16.0           | 11.1  | 33.4        | 25.9  | 25.9  | 32.9          | 27.8  | 25.2  | ...       |

Source: 1990 CPH-6-CNMI, Table 36

**Table 1.22 Chamorro and Carolinian by Age: 1995**

| Age Group       | Total  | Chamorro |               |                    | Carolinian |               |                      |
|-----------------|--------|----------|---------------|--------------------|------------|---------------|----------------------|
|                 |        | Total    | Single ethnic | Chamorro and other | Total      | Single ethnic | Carolinian and other |
| Total           | 58,846 | 17,120   | 13,844        | 3,276              | 3,041      | 2,382         | 659                  |
| Less than 5 yrs | 6,084  | 2,946    | 1,932         | 1,014              | 465        | 275           | 190                  |
| 5 to 9 yrs      | 4,619  | 2,571    | 1,847         | 724                | 396        | 269           | 127                  |
| 10 to 14 yrs    | 3,600  | 2,005    | 1,542         | 463                | 364        | 260           | 104                  |
| 15 to 19 yrs    | 3,335  | 1,649    | 1,313         | 336                | 330        | 257           | 73                   |
| 20 to 24 yrs    | 6,406  | 1,308    | 1,112         | 196                | 280        | 232           | 48                   |
| 25 to 29 yrs    | 8,914  | 1,323    | 1,181         | 142                | 224        | 198           | 26                   |
| 30 to 34 yrs    | 7,720  | 1,104    | 1,016         | 88                 | 233        | 205           | 28                   |
| 35 to 44 yrs    | 10,885 | 1,964    | 1,822         | 142                | 372        | 339           | 33                   |
| 45 to 54 yrs    | 4,643  | 1,099    | 1,008         | 91                 | 197        | 180           | 17                   |
| 55 to 64 yrs    | 1,702  | 632      | 582           | 50                 | 112        | 105           | 7                    |
| 65 years & over | 938    | 519      | 489           | 30                 | 68         | 62            | 6                    |

Source: 1995 Mid-Decade Census Table 59

**Table 1.23 Ethnicity by Island: 1995**

| Ethnicity              | Island |        |       |        |            |
|------------------------|--------|--------|-------|--------|------------|
|                        | Total  | Saipan | Rota  | Tinian | North. Is. |
| Total                  | 58,846 | 52,698 | 3,509 | 2,631  | 8          |
| Single ethnic group    | 53,044 | 47,499 | 3,286 | 2,251  | 8          |
| Carolinian             | 2,382  | 2,371  | 2     | 2      | 7          |
| Chamorro               | 13,844 | 10,894 | 1,734 | 1,216  | 0          |
| Marshallese            | 113    | 112    | 1     | 0      | 0          |
| Palauan                | 1,929  | 1,882  | 37    | 10     | 0          |
| Pohnpeian              | 636    | 613    | 19    | 4      | 0          |
| Chuukese               | 1,237  | 1,218  | 14    | 4      | 1          |
| Yapese                 | 198    | 186    | 0     | 12     | 0          |
| Kosraean               | 52     | 44     | 5     | 3      | 0          |
| Other Pacific Islander | 137    | 132    | 0     | 5      | 0          |
| Asian                  | 30,676 | 28,340 | 1,400 | 936    | 0          |
| Filipino               | 19,462 | 17,426 | 1,211 | 825    | 0          |
| Japanese               | 953    | 917    | 26    | 10     | 0          |
| Korean                 | 2,275  | 2,222  | 4     | 49     | 0          |
| Chinese                | 6,762  | 6,717  | 8     | 37     | 0          |
| Other Asian            | 1,224  | 1,058  | 151   | 15     | 0          |
| White                  | 1,760  | 1,636  | 66    | 58     | 0          |
| Black                  | 21     | 13     | 7     | 1      | 0          |
| Other single ethnic    | 59     | 58     | 1     | 0      | 0          |
| Multiple ethnic group  | 5,802  | 5,199  | 223   | 380    | 0          |
| Carolinian & other     | 659    | 654    | 1     | 4      | 0          |
| Chamorro & other       | 3,276  | 2,815  | 151   | 310    | 0          |

Source: 1995 Mid-Decade Census Table 44

**Table 1.24 Year of Migration to CNMI by Island: 1995**

| Year           | Island |        |       |        |            |
|----------------|--------|--------|-------|--------|------------|
|                | Total  | Saipan | Rota  | Tinian | North. Is. |
| All persons    | 58,846 | 52,698 | 3,509 | 2,631  | 8          |
| Born in CNMI   | 22,208 | 19,084 | 1,683 | 1,434  | 7          |
| Born elsewhere | 36,638 | 33,614 | 1,826 | 1,197  | 1          |
| 1994 or 1995   | 11,444 | 10,471 | 690   | 283    | 0          |
| 1992 or 1993   | 7,789  | 7,184  | 363   | 242    | 0          |
| 1990 or 1991   | 5,803  | 5,293  | 268   | 242    | 0          |
| 1985 to 1989   | 6,984  | 6,400  | 326   | 257    | 1          |
| 1980 to 1984   | 2,189  | 2,017  | 95    | 77     | 0          |
| 1975 to 1979   | 1,041  | 987    | 35    | 19     | 0          |
| 1965 to 1974   | 963    | 888    | 39    | 36     | 0          |
| Before 1965    | 425    | 374    | 10    | 41     | 0          |

Source: 1995 Mid-Decade Census Table 13

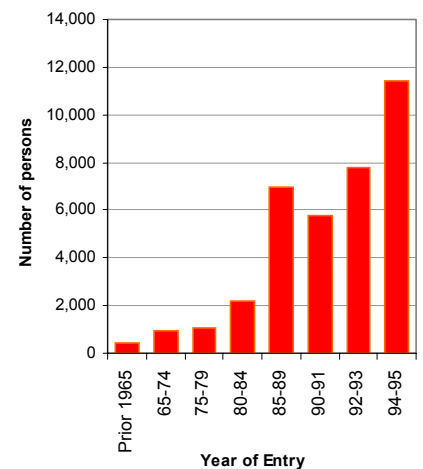
**Ethnicity**

In 1995, the Filipino ethnic group was the largest single ethnic group in the Commonwealth; Filipinos outnumbered Chamorros in 1995. This remarkable change was true in Saipan where the vast majority of CNMI population was located. In Rota and in Tinian, Chamorro was still the most dominant ethnic group, although not as dominant as in previous years. In the Northern Islands, Carolinian was the most dominant ethnic group in this sparsely populated region.

**Migration**

Over 61 percent of the CNMI's population migrated elsewhere; most migrants came to the CNMI in the second half of the 1980's and into the 1990's. The majority of all immigrants were temporary residents who were residing in the Commonwealth under employment visas. Immigrant flows were greatest in 1994 and 1995 when 11,444 people moved to the area.

**Figure 1.10 Migrants in the CNMI by Year of Entry: 1995**



**Population by Island**

CNMI's total population increased significantly in five years, due to economic forces that encouraged immigration from Asia. Most population growth occurred in Saipan. The Population size of Tinian and Rota continues to be very small, however slight population growth occurred in Rota between 1990 and 1995.

**Table 1.25 Population by Island and District: 1990 and 1995**

| Island and District | Numbers |        | Percent change | Percent |       |        |       |
|---------------------|---------|--------|----------------|---------|-------|--------|-------|
|                     |         |        |                | CNMI    |       | Island |       |
|                     | 1995    | 1990   |                | 1995    | 1990  | 1995   | 1990  |
| Total               | 58,846  | 43,345 | 35.8           | 100.0   | 100.0 | ...    | ...   |
| Saipan              | 52,698  | 38,896 | 35.5           | 89.6    | 89.7  | 100.0  | 100.0 |
| District 1          | 1,607   | 1,311  | 22.6           | 2.7     | 3.0   | 3.0    | 3.4   |
| District 2          | 1,276   | 856    | 49.1           | 2.2     | 2.0   | 2.4    | 2.2   |
| District 3          | 968     | 827    | 17.0           | 1.6     | 1.9   | 1.8    | 2.1   |
| District 4          | 686     | 486    | 41.2           | 1.2     | 1.1   | 1.3    | 1.2   |
| District 5          | 1,971   | 1,776  | 11.0           | 3.3     | 4.1   | 3.7    | 4.6   |
| District 6          | 9,739   | 7,685  | 26.7           | 16.5    | 17.7  | 18.5   | 19.8  |
| District 7          | 2,954   | 2,779  | 6.3            | 5.0     | 6.4   | 5.6    | 7.1   |
| District 8          | 4,386   | 3,175  | 38.1           | 7.5     | 7.3   | 8.3    | 8.2   |
| District 9          | 1,885   | 1,250  | 50.8           | 3.2     | 2.9   | 3.6    | 3.2   |
| District 10         | 12,506  | 6,576  | 90.2           | 21.3    | 15.2  | 23.7   | 16.9  |
| District 11         | 14,720  | 12,175 | 20.9           | 25.0    | 28.1  | 27.9   | 31.3  |
| Rota                | 3,509   | 2,295  | 52.9           | 6.0     | 5.3   | 100.0  | 100.0 |
| District 1          | 617     | 449    | 37.4           | 1.0     | 1.0   | 17.6   | 19.6  |
| District 2          | 178     | 121    | 47.1           | 0.3     | 0.3   | 5.1    | 5.3   |
| District 3          | 149     | 126    | 18.3           | 0.3     | 0.3   | 4.2    | 5.5   |
| District 4          | 2,565   | 1,599  | 60.4           | 4.4     | 3.7   | 73.1   | 69.7  |
| Tinian              | 2,631   | 2,118  | 24.2           | 4.5     | 4.9   | 100.0  | 100.0 |
| District 1          | 1,755   | 1,442  | 21.7           | 3.0     | 3.3   | 66.7   | 68.1  |
| District 2          | 876     | 676    | 29.6           | 1.5     | 1.6   | 33.3   | 31.9  |
| Northern Is.        | 8       | 36     | -77.8          | 0.0     | 0.1   | ...    | ...   |

Source: 1990 CPH-6-CNMI Table 3, and 1995 CNM IM II-Decade Census Table 1

**Table 1.26 CNMI 51-Year Population Estimates**

(Estimates based on the 1995 Census results)

| Year | Total   | Male   | Female |
|------|---------|--------|--------|
| 1996 | 60,960  | 30,147 | 30,813 |
| 1997 | 63,763  | 31,311 | 32,452 |
| 1998 | 66,559  | 32,475 | 34,084 |
| 1999 | 69,341  | 33,636 | 35,705 |
| 2000 | 72,101  | 34,790 | 37,311 |
| 2001 | 74,847  | 35,941 | 38,906 |
| 2002 | 77,588  | 37,093 | 40,495 |
| 2003 | 80,318  | 38,243 | 42,075 |
| 2004 | 83,033  | 39,390 | 43,643 |
| 2005 | 85,731  | 40,532 | 45,199 |
| 2006 | 88,412  | 41,669 | 46,743 |
| 2007 | 91,077  | 42,802 | 48,275 |
| 2008 | 93,728  | 43,932 | 49,796 |
| 2009 | 96,362  | 45,057 | 51,305 |
| 2010 | 98,974  | 46,175 | 52,799 |
| 2015 | 111,649 | 51,625 | 60,024 |
| 2020 | 123,502 | 56,748 | 66,754 |
| 2025 | 134,285 | 61,420 | 72,865 |
| 2030 | 143,696 | 65,508 | 78,188 |
| 2035 | 151,394 | 68,870 | 82,524 |
| 2040 | 157,102 | 71,420 | 85,682 |
| 2045 | 160,665 | 73,144 | 87,521 |
| 2050 | 161,990 | 74,092 | 87,898 |

Prepared by: Central Statistics Division

**Projected Population Estimates**

The US Bureau of the Census derived CNMI population estimates over a fifty-year period by applying annual average growth rates from the 1990 and 1995 census. Results show CNMI's estimated population in 2000 to be 72,101 persons. Data from the decennial 2000 Census were not available for this pressing.

Chapter 2  
VITAL STATISTICS

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## Summary of Vital Statistics

This chapter presents descriptive fertility and mortality data in the CNMI for 2000 as well as trends over time.

The CNMI birth and death rates have declined over the past fifteen years. Although the birthrate generally increased between 1984 and 1993, the rate dropped during subsequent years. In fact, the CNMI birthrate in 2000 reached an all-time low of 20.7 births per 1,000 women.

The majority of all babies are born to mothers aged 25 to 34 years (53%), although nearly 10% of babies in the CNMI were born to women aged 19 years and younger. Approximately 68% of babies are delivered by midwives in 2000, which is consistent with past trends.

Nearly 37% of all live births in 2000 were to Filipina women, 30% were born to Chamorros, 8% were born to Chinese, 6% were born to Carolinians and 19% of babies were born to mothers of other ethnic groups. The proportion of babies born to younger mothers was highest among CNMI-born mothers, while the proportion born to older mothers was highest among Filipinas. Approximately, 68% of live births were to women who were not married and most babies weighted between 6.6 to 8.8 pounds.

The CNMI death rate in 2000, the lowest we have on record was 2.2 deaths per 1,000 persons. The infant mortality rate, also lowest in recent history, was 1.2 deaths per 1,000 live births.

**Table 2.1 CNMI Births and Deaths: 1980 to 2000**

| Year | Population | Number of Registered |        |               | Rate  |       |                  |
|------|------------|----------------------|--------|---------------|-------|-------|------------------|
|      |            | Births               | Deaths | Infant Deaths | Birth | Death | Infant Mortality |
| 2000 | 69,221     | 1,436                | 149    | 6             | 20.7  | 2.2   | 0.1              |
| 1999 | 69,398     | 1,480                | 185    | 8             | 21.3  | 2.7   | 5.4              |
| 1998 | 66,611     | 1,421                | 153    | 12            | 21.3  | 2.3   | 8.4              |
| 1997 | 63,789     | 1,536                | 147    | 7             | 24.1  | 2.3   | 4.6              |
| 1996 | 60,964     | 1,477                | 165    | 12            | 24.2  | 2.7   | 8.1              |
| 1995 | 58,846     | 1,525                | 170    | 10            | 25.9  | 2.9   | 6.6              |
| 1994 | 55,298     | 1,424                | 141    | 10            | 25.8  | 2.5   | 7.0              |
| 1993 | 52,646     | 1,605                | 164    | 16            | 30.5  | 3.1   | 10.0             |
| 1992 | 49,545     | 1,511                | 157    | 15            | 30.5  | 3.2   | 9.9              |
| 1991 | 46,445     | 1,423                | 155    | 10            | 30.6  | 3.3   | 7.0              |
| 1990 | 43,345     | 1,186                | 143    | 11            | 27.4  | 3.3   | 9.3              |
| 1989 | 40,693     | 989                  | 122    | 2             | 24.3  | 3.0   | 2.0              |
| 1988 | 38,036     | 1,007                | 124    | 18            | 26.5  | 3.3   | 17.9             |
| 1987 | 35,379     | 975                  | 118    | 4             | 27.6  | 3.3   | 4.1              |
| 1986 | 32,722     | 804                  | 121    | 8             | 24.6  | 3.7   | 10.0             |
| 1985 | 30,065     | 698                  | 95     | 14            | 23.2  | 3.2   | 20.1             |
| 1984 | 27,408     | 631                  | 114    | 15            | 23.0  | 4.2   | 23.8             |
| 1980 | 16,780     | 623                  | 105    |               | 37.1  | 6.3   |                  |

Source: Commonwealth Health Center and Central Statistics Division

Note: 1990, 1995 censuses on population and housing, 1992 Current Household Survey.

Birth and death rates are per 1,000 persons. The infant mortality rate is per 1,000 live births.

**Table 2.2 Live Births by Type of Health Facility: 1994 to 2000**

| Health Facility            | YEAR  |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|
|                            | 2000  | 1999  | 1998  | 1997  | 1996  | 1995  | 1994  |
| Total                      | 1,436 | 1,448 | 1,421 | 1,536 | 1,467 | 1,525 | 1,426 |
| Hospital/sub-health center | 1,431 | 1,446 | 1,414 | 1,535 | 1,466 | 1,522 | 1,422 |
| Clinics                    | 0     | 2     | 1     | 1     | 0     | 0     | 0     |
| Home or other              | 5     | -     | 6     | 0     | 1     | 3     | 4     |

Source: Commonwealth Health Center

**Table 2.3 Live Births by Mothers' Age and Attendant: 2000**

| Age Group         | Total | Attendant |        |        |
|-------------------|-------|-----------|--------|--------|
|                   |       | Mid-Wife  | Doctor | Others |
| Total             | 1,436 | 975       | 458    | 3      |
| 19 years and less | 140   | 109       | 30     | 1      |
| 20 to 24 years    | 314   | 221       | 93     | 0      |
| 25 to 29 years    | 399   | 287       | 112    | 0      |
| 30 to 34 years    | 364   | 241       | 122    | 1      |
| 35 to 39 years    | 174   | 90        | 84     | 0      |
| 40 years and over | 45    | 27        | 17     | 1      |

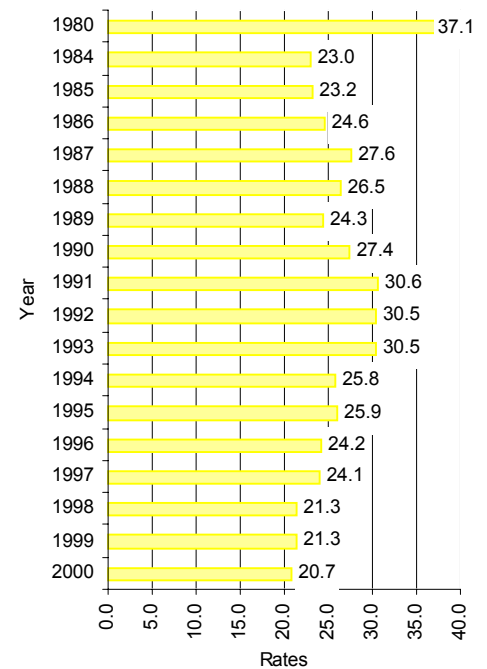
Source: Department of Public Health, Vital Statistics

**Births and Deaths**

The CNMI birthrate generally increased between 1984 and 1993. However, the birthrate fell in 1994 from 30.5 to 25.8 births per 1,000 mothers, primarily due to the heavy immigration of single women into the CNMI. The birthrate has reached an all-time low of 20.7 births per 1,000 mothers in 2000.

Over time, there has been a corresponding decline in the CNMI infant mortality rate.

**Figure 2.1 CNMI Birth Rates: 1980 to 2000**



**Age of Mother**

In 2000, 28% of all registered babies were born to mothers aged 25 to 29 years and 25% were born to women aged 30 to 34 years. Nearly 22% of babies were born to women aged 20 to 24 years, 12% to women 35 to 39 years, 10% to women 19 years or younger, and 3% were born to females aged 45 years or older.

### Type of Birth Attendant Over Time

The proportion of live births delivered by midwives has increased slightly from 64% in 1993 to about 68% in 2000. At its lowest percentage, 55% of births were delivered by midwives and 45% were administered by doctors in 1997.

**Table 2.4 Registered Live Births by Type of Attendant: 1993 to 2000**

| Type of Attendant | Year  |       |       |       |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | 2000  | 1999  | 1998  | 1997  | 1996  | 1995  | 1994  | 1993  |
| Total             | 1,436 | 1,448 | 1,323 | 1,536 | 1,467 | 1,525 | 1,426 | 1,605 |
| Physician         | 458   | 421   | 410   | 690   | 577   | 621   | 555   | 576   |
| Certified midwife | 975   | 999   | 905   | 846   | 888   | 896   | 869   | 1,027 |
| Midwife or nurse  | 0     | 0     | 0     | 0     | 0     | 7     | 0     | 0     |
| Other             | 3     | *28   | 8     | 0     | 2     | 1     | 2     | 2     |

Source: Commonwealth Health Center

\*Note: A recent CHC review of health records found only 7 births delivered to "other" attendants in 1999.

**Table 2.5 Registered Live Births by Age of Mother, CNMI: 2000**

| Island | Total | Age Group        |          |          |          |          |                   |
|--------|-------|------------------|----------|----------|----------|----------|-------------------|
|        |       | 19 years or less | 20 to 24 | 25 to 29 | 30 to 34 | 35 to 39 | 40 years and over |
| Total  | 1,436 | 140              | 314      | 399      | 364      | 174      | 45                |
| Saipan | 1,295 | 119              | 285      | 357      | 336      | 159      | 39                |
| Tinian | 82    | 12               | 19       | 23       | 17       | 8        | 3                 |
| Rota   | 59    | 9                | 10       | 19       | 11       | 7        | 3                 |

Source: Department of Public Health, Vital Statistics

**Table 2.6 Registered Live Births by Month: 1996 to 2000**

| Month             | Year  |       |       |       |       |
|-------------------|-------|-------|-------|-------|-------|
|                   | 2000  | 1999  | 1998  | 1997  | 1996  |
| Total             | 1,436 | 1,448 | 1,421 | 1,536 | 1,467 |
| First six months  | 714   | 697   | 652   | 716   | 708   |
| January           | 133   | 136   | 124   | 125   | 135   |
| February          | 118   | 88    | 93    | 97    | 120   |
| March             | 123   | 137   | 123   | 111   | 109   |
| April             | 115   | 107   | 100   | 134   | 105   |
| May               | 107   | 117   | 105   | 129   | 110   |
| June              | 118   | 112   | 107   | 120   | 129   |
| Second six months | 722   | 751   | 769   | 820   | 759   |
| July              | 117   | 103   | 101   | 138   | 125   |
| August            | 114   | 120   | 134   | 131   | 139   |
| September         | 146   | 141   | 130   | 145   | 135   |
| October           | 115   | 154   | 155   | 139   | 107   |
| November          | 112   | 119   | 117   | 130   | 119   |
| December          | 118   | 114   | 132   | 137   | 134   |

Source: Commonwealth Health Center

### Birth Patterns

There is an interesting pattern of births in the CNMI; slightly more births occurred during the second six months (July-December) of the calendar year than the first six months (January-June). This trend was not noted for the year 2000 as the number of births was nearly identical.



**Table 2.7 Registered Live Births by Year and Age of Mother: 1991 to 2000**

| Age of Mother      | Year  |       |       |       |       |       |       |       |       |       |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                    | 2000  | 1999  | 1998  | 1997  | 1996  | 1995  | 1994  | 1993  | 1992  | 1991  |
| Total              | 1,436 | 1,448 | 1,262 | 1,536 | 1,467 | 1,525 | 1,426 | 1,605 | 1,511 | 1,423 |
| 19 years and under | 140   | 159   | 164   | 151   | 138   | 163   | 163   | 160   | 179   | 152   |
| 20 - 24 years      | 314   | 313   | 147   | 344   | 317   | 381   | 345   | 410   | 366   | 376   |
| 25 - 29 years      | 399   | 385   | 435   | 496   | 484   | 467   | 473   | 517   | 486   | 472   |
| 30 - 34 years      | 364   | 360   | 356   | 348   | 345   | 338   | 298   | 349   | 320   | 262   |
| 35 - 39 years      | 174   | 145   | 128   | 148   | 139   | 137   | 124   | 132   | 136   | 133   |
| 40 - 44 years      | 45    | 34    | 31    | 36    | 41    | 28    | 20    | 25    | 24    | 26    |
| 45 years and over  | -     | 1     | 1     | 2     | 2     | 0     | 1     | 1     | 0     | 2     |
| Unknown            | -     | 51    | 0     | 11    | 1     | 11    | 2     | 11    | 0     | 0     |

Source: Commonwealth Health Center

**Table 2.8 Live Births by Mothers' Ethnicity and Age: 2000**

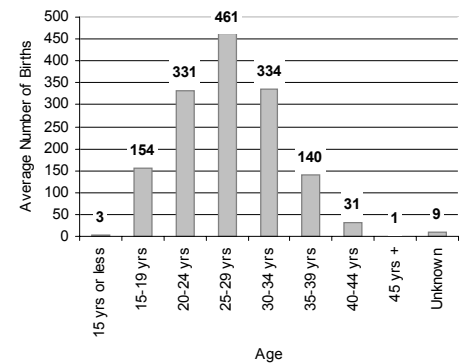
| Ethnicity         | Total | Age Group         |          |          |          |          |                   |
|-------------------|-------|-------------------|----------|----------|----------|----------|-------------------|
|                   |       | 19 years and less | 20 to 24 | 25 to 29 | 30 to 34 | 35 to 39 | 40 years and over |
| Total             | 1,436 | 140               | 314      | 399      | 364      | 174      | 45                |
| Carolinian        | 88    | 11                | 28       | 26       | 15       | 8        | 0                 |
| Chamorro          | 435   | 92                | 142      | 107      | 63       | 27       | 4                 |
| Filipino          | 527   | 13                | 62       | 145      | 174      | 104      | 29                |
| Chinese           | 111   | 4                 | 22       | 37       | 34       | 13       | 1                 |
| Chuukese          | 69    | 6                 | 23       | 20       | 14       | 3        | 3                 |
| Palauan           | 45    | 4                 | 10       | 12       | 13       | 4        | 2                 |
| Pohnpeian         | 36    | 4                 | 12       | 13       | 6        | 1        | 0                 |
| Korean            | 29    | 0                 | 2        | 12       | 11       | 3        | 1                 |
| Japanese          | 20    | 1                 | 0        | 5        | 12       | 1        | 1                 |
| American          | 15    | 1                 | 1        | 4        | 6        | 1        | 2                 |
| Thai              | 13    | 0                 | 2        | 3        | 6        | 1        | 1                 |
| Yapese            | 11    | 1                 | 4        | 1        | 3        | 2        | 0                 |
| Russian           | 5     | 0                 | 1        | 4        | 0        | 0        | 0                 |
| Taiwanese         | 7     | 1                 | 1        | 2        | 3        | 0        | 0                 |
| Korean            | 5     | 0                 | 1        | 3        | 0        | 1        | 0                 |
| Guamanian         | 4     | 1                 | 1        | 1        | 0        | 1        | 0                 |
| Marshallese       | 5     | 1                 | 2        | 0        | 1        | 1        | 0                 |
| Other Micronesian | 2     | 0                 | 0        | 1        | 1        | 0        | 0                 |
| Indian            | 2     | 0                 | 0        | 1        | 1        | 0        | 0                 |
| Australian        | 1     | 0                 | 0        | 0        | 0        | 1        | 0                 |
| Canadian          | 1     | 0                 | 0        | 0        | 0        | 1        | 0                 |
| Hawaiian          | 1     | 0                 | 0        | 0        | 0        | 1        | 0                 |
| Indonesian        | 1     | 0                 | 0        | 1        | 0        | 0        | 0                 |
| Okhawan           | 1     | 0                 | 0        | 1        | 0        | 0        | 0                 |
| Samoaan           | 1     | 0                 | 0        | 0        | 0        | 0        | 1                 |
| Syria             | 1     | 0                 | 0        | 0        | 1        | 0        | 0                 |

Source: Department of Public Health, Vital Statistics

**Mother's Age**

The proportion of births to women aged 19 and under has fluctuated during the past decade, at its highest in 1998 (13%) and its lowest in 1996 (9.4%).

**Figure 2.2 Average Number of Births by Mother's Age, 1991 to 2000**



**Births by Mother's Ethnicity**

Over one-third (37%) of all live births in 2000 were to Filipina mothers. Approximately 30% of births were to Chamorros, 8% were to Chinese, 6% were to Carolinian and the remaining 19% were born to women of other ethnicities.

**Marital Status of Mother**

In 2000, approximately 68% of all births were to mothers who were not married.

**Table 2.9 Live Births by Marital Status and Mothers Age: 2000**

|                   | Number of Mothers |         |             | Percentage of Total Mothers |             |
|-------------------|-------------------|---------|-------------|-----------------------------|-------------|
|                   | Total             | Married | Not Married | Married                     | Not married |
| Total             | 1,436             | 465     | 971         | 32.4                        | 67.6        |
| 19 year and less  | 140               | 13      | 127         | 9.3                         | 90.7        |
| 20 - 24 years     | 314               | 80      | 234         | 25.5                        | 74.5        |
| 25 - 29 years     | 399               | 129     | 270         | 32.3                        | 67.7        |
| 30 - 34 years     | 364               | 151     | 213         | 41.5                        | 58.5        |
| 35 - 39 years     | 174               | 74      | 100         | 42.5                        | 57.5        |
| 40 years and over | 45                | 18      | 27          | 40.0                        | 60.0        |

Source: Commonwealth Health Center

**Sex of New Born**

As expected, approximately half of all live births were female and half were male in 2000.

**Table 2.10 Registered Live Births by Sex and Mothers Ethnicity: 2000**

| Sex    | Total | Chamorro | Carolinian | Filipino | Chinese / Taiwanese | American / Guamian | FAS | Others |
|--------|-------|----------|------------|----------|---------------------|--------------------|-----|--------|
| Total  | 1,436 | 435      | 88         | 527      | 118                 | 19                 | 172 | 77     |
| Female | 722   | 208      | 45         | 278      | 55                  | 13                 | 84  | 39     |
| Male   | 714   | 227      | 43         | 249      | 63                  | 6                  | 88  | 38     |

Source: Department of Public Health, Vital Statistics

\*Note: FAS mean Freely Associated States

**Birth Weight**

On average, 40 percent of babies born between 1992 and 2000, weighed between 6.6 and 7.6 pounds. About 83 percent of all babies fell between 5.5 to 8.8 pounds. In 2000, 36% of live births weighed between 6.6 and 7.7 pounds. Over three-quarters (77%) of babies weighed between 5.5 and 8.8 pounds.

**Table 2.11 Registered Live Births by Birth Weight: 1992 to 2000**

| Birth Weight          | Year  |       |       |       |       |       |       |       |       | Average | Percentage |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|------------|
|                       | 2000  | 1999  | 1998  | 1997  | 1996  | 1995  | 1994  | 1993  | 1992  |         |            |
| Total                 | 1,436 | 1,448 | 1,421 | 1,536 | 1,467 | 1,525 | 1,426 | 1,605 | 1,511 | 1,670   | 100.0      |
| Under 1.1 lb          | 0     | 0     | ...   | 0     | 2     | 0     | 0     | 1     | 3     | 1       | 0.1        |
| 1.1 lb - 2.2 lb       | 3     | 2     | ...   | 1     | 5     | 1     | 3     | 5     | 7     | 4       | 0.2        |
| Over 2.2 lb - 3.3 lb  | 11    | 4     | ...   | 4     | 10    | 7     | 2     | 12    | 8     | 7       | 0.4        |
| Over 3.3 lb - 4.4 lb  | 18    | 22    | ...   | 10    | 23    | 13    | 12    | 19    | 20    | 17      | 1.0        |
| Over 4.4 lb - 5.5 lb  | 62    | 92    | ...   | 77    | 55    | 114   | 88    | 102   | 78    | 84      | 5.1        |
| Over 5.5 lb - 6.6 lb  | 272   | 377   | ...   | 357   | 281   | 403   | 346   | 369   | 353   | 348     | 20.8       |
| Over 6.6 lb - 7.7 lb  | 512   | 554   | ...   | 556   | 608   | 569   | 558   | 641   | 648   | 588     | 35.2       |
| Over 7.7 lb - 8.8 lb  | 322   | 264   | ...   | 285   | 356   | 259   | 233   | 332   | 315   | 296     | 17.7       |
| Over 8.8 lb - 9.9 lb  | 98    | 42    | ...   | 59    | 102   | 49    | 85    | 94    | 67    | 75      | 4.5        |
| Over 9.9 lb - 10.9 lb | 17    | 9     | ...   | 4     | 14    | 6     | 8     | 12    | 10    | 10      | 0.6        |
| Over 10.9 lb          | 1     | 1     | ...   | 1     | 1     | 1     | 3     | 1     | 1     | 1       | 0.1        |
| Not Stated            | 120   | 81    | 1,421 | 182   | 10    | 103   | 88    | 17    | 1     | 240     | 14.4       |

Source: Commonwealth Health Center

Note: "... " means not available.

**Table 2.12 Live Births by Mothers Place of Birth and Age of Mother, CNMI: 2000**

| Race of Mother | Total | Age of Mother     |            |            |            |            |                   |
|----------------|-------|-------------------|------------|------------|------------|------------|-------------------|
|                |       | 19 years and less | 20 thru 24 | 25 thru 29 | 30 thru 34 | 35 thru 39 | 40 years and over |
| Total          | 1,436 | 140               | 314        | 399        | 364        | 174        | 45                |
| CNMI           | 499   | 105               | 168        | 131        | 65         | 25         | 5                 |
| Saipan         | 462   | 101               | 158        | 117        | 59         | 22         | 5                 |
| Northern Is.   | 4     | 0                 | 0          | 1          | 1          | 2          | 0                 |
| Tinian         | 13    | 1                 | 5          | 4          | 3          | 0          | 0                 |
| Rota           | 20    | 3                 | 5          | 9          | 2          | 1          | 0                 |
| Guam           | 40    | 9                 | 15         | 7          | 7          | 1          | 1                 |
| FSM            | 1     | 0                 | 0          | 0          | 1          | 0          | 0                 |
| Chuuk          | 65    | 3                 | 23         | 21         | 13         | 3          | 2                 |
| Kosrae         | 5     | 0                 | 2          | 2          | 0          | 1          | 0                 |
| Phonpei        | 35    | 5                 | 13         | 13         | 4          | 0          | 0                 |
| Yap            | 12    | 2                 | 3          | 2          | 3          | 2          | 0                 |
| Palau          | 33    | 1                 | 9          | 10         | 9          | 3          | 1                 |
| Marshall       | 6     | 2                 | 2          | 1          | 1          | 0          | 0                 |
| Philippines    | 510   | 7                 | 47         | 135        | 177        | 116        | 28                |
| China          | 115   | 0                 | 22         | 42         | 36         | 12         | 3                 |
| Korea          | 27    | 0                 | 1          | 11         | 11         | 3          | 1                 |
| Japan          | 19    | 0                 | 1          | 5          | 11         | 1          | 1                 |
| US             | 17    | 1                 | 3          | 5          | 5          | 2          | 1                 |
| Thailand       | 15    | 0                 | 0          | 3          | 10         | 2          | 0                 |
| Russia         | 7     | 0                 | 4          | 3          | 0          | 0          | 0                 |
| Others         | 17    | 1                 | 1          | 4          | 6          | 3          | 2                 |
| Not Stated     | 13    | 4                 | 0          | 4          | 5          | 0          | 0                 |

Source: Commonwealth Health Center

**Table 2.13 Births by Selected Mothers Ethnicity, CNMI: 1988-2000**

| Year | Total | Ethnicity |            |          |             |             |        |
|------|-------|-----------|------------|----------|-------------|-------------|--------|
|      |       | Chamorro  | Carolinian | Filipino | Micronesian | Other Asian | Others |
| 2000 | 1,436 | 435       | 88         | 527      | 172         | 179         | 35     |
| 1999 | 1,448 | 459       | 96         | 553      | 159         | 19          | 162    |
| 1998 | 1,420 | 409       | 75         | 538      | 182         | 116         | 100    |
| 1997 | 1,536 | 459       | 75         | 599      | 199         | 143         | 61     |
| 1996 | 1,467 | 402       | 62         | 620      | 174         | 162         | 47     |
| 1995 | 1,624 | 472       | 68         | 656      | 218         | 157         | 53     |
| 1994 | 1,424 | 436       | 80         | 528      | 206         | 143         | 31     |
| 1993 | 1,603 | 485       | 93         | 592      | 247         | 149         | 37     |
| 1992 | 1,474 | 429       | 92         | 561      | 200         | 156         | 36     |
| 1991 | 1,408 | 414       | 89         | 493      | 227         | 153         | 32     |
| 1990 | 1,164 | 461       | 81         | 354      | 183         | 71          | 14     |
| 1989 | 935   | 402       | 79         | 248      | 150         | 38          | 18     |
| 1988 | 987   | 438       | 65         | 273      | 152         | 40          | 19     |

Source: Commonwealth Health Center, Vital Statistics

**Mother's Birthplace and Age**

In 2000, almost 35% of all live births were to mothers who were born in the CNMI and another 35% were to mothers from the Philippines. Approximately, 8% of births were by women from China and the remaining births were to mothers from elsewhere. The percentage of babies born to younger mothers was highest among CNMI-born mothers, while the percentage of babies born to older mothers was highest among Philippine-born women.

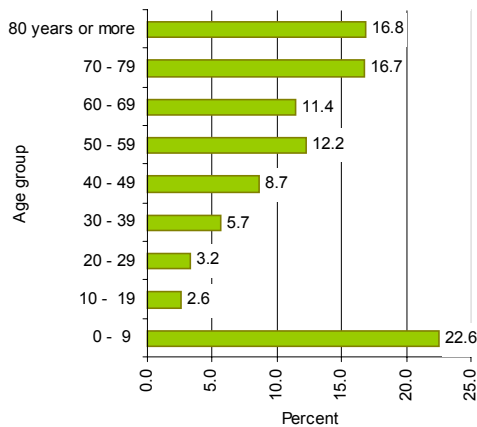
**Births by Ethnicity Over Time**

The proportion of CNMI live births born to Filipina mothers was highest (42%) in 1996 when 620 babies were born to women in this group. The proportion of births to Filipinas has increased from 27% in 1988 to 37% in 2000. The number of babies born to Chamorro and Carolinian mothers has remained relatively stable over time.

**Number of Deaths**

The average number of deaths was highest among children in age group 0-4 years, particularly among those less than one year. The average number of deaths over time was highest among persons aged 70 to 74 years.

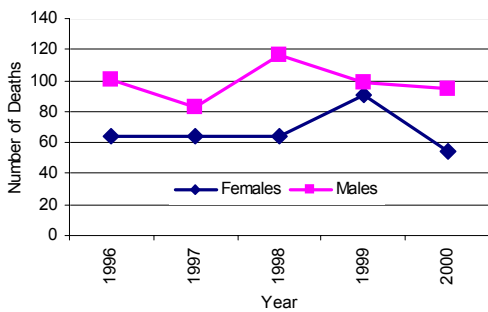
**Figure 2.3** Percent of Average Number of Deaths by Age Group from 1992 to 2000



**Male as. Female Deaths**

Since 1996, more males than females died each year.

**Figure 2.4** Number of Deaths by Gender: 1996 to 2000



**Table 2.14** Registered Deaths by Age: 1992 to 2000

| Age Group         | Calendar Year |      |      |      |      |      |      |      |      |     | Average | Percentage |
|-------------------|---------------|------|------|------|------|------|------|------|------|-----|---------|------------|
|                   | 2000          | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 | 1992 |     |         |            |
| Total             | 149           | 189  | 180  | 147  | 165  | 170  | 133  | 164  | 157  | 162 | 100.0   |            |
| 0 - 4 years       | 12            | 16   | 21   | 10   | 14   | 14   | 13   | 28   | 17   | 16  | 10.0    |            |
| 5 - 9 years       | 1             | 1    | 0    | 3    | 2    | 2    | 1    | 4    | 2    | 2   | 1.1     |            |
| 10 -14 years      | 0             | 0    | 3    | 0    | 1    | 1    | 0    | 1    | 3    | 1   | 0.6     |            |
| 15 -19 years      | 2             | 6    | 3    | 1    | 2    | 4    | 4    | 2    | 2    | 3   | 1.8     |            |
| 20 -24 years      | 9             | 9    | 4    | 3    | 4    | 5    | 4    | 3    | 4    | 5   | 3.1     |            |
| 25 -29 years      | 3             | 7    | 5    | 2    | 9    | 14   | 2    | 12   | 8    | 7   | 4.3     |            |
| 30 -34 years      | 8             | 5    | 5    | 5    | 5    | 11   | 5    | 8    | 13   | 7   | 4.5     |            |
| 35 -39 years      | 5             | 10   | 13   | 12   | 11   | 9    | 11   | 6    | 8    | 9   | 5.8     |            |
| 40 -44 years      | 9             | 7    | 17   | 14   | 8    | 16   | 6    | 8    | 9    | 10  | 6.5     |            |
| 45 -49 years      | 11            | 16   | 15   | 12   | 12   | 8    | 9    | 12   | 12   | 12  | 7.4     |            |
| 50 -54 years      | 14            | 16   | 11   | 17   | 12   | 14   | 3    | 12   | 9    | 12  | 7.4     |            |
| 55 -59 years      | 6             | 9    | 14   | 10   | 11   | 8    | 8    | 12   | 9    | 10  | 6.0     |            |
| 60 -64 years      | 9             | 15   | 9    | 17   | 16   | 9    | 14   | 7    | 14   | 12  | 7.6     |            |
| 65 -69 years      | 8             | 15   | 13   | 14   | 10   | 22   | 10   | 15   | 11   | 13  | 8.1     |            |
| 70 -74 years      | 13            | 20   | 15   | 12   | 18   | 14   | 18   | 9    | 5    | 14  | 8.5     |            |
| 75 -79 years      | 15            | 12   | 11   | 3    | 14   | 4    | 10   | 13   | 16   | 11  | 6.7     |            |
| 80 -84 years      | 15            | 13   | 9    | 5    | 6    | 7    | 8    | 5    | 9    | 9   | 5.3     |            |
| 85 years and over | 9             | 12   | 12   | 7    | 10   | 8    | 7    | 7    | 6    | 9   | 5.4     |            |

Source: Public Health Center, Vital Statistics

**Table 2.15** Registered Deaths by Age and Gender: 1996 to 2000

| Age Group         | 2000  |         | 1999  |         | 1998  |         | 1997  |         | 1996  |         |
|-------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|
|                   | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females |
| Total             | 95    | 54      | 99    | 91      | 116   | 64      | 83    | 64      | 101   | 64      |
| 00 -04 years      | 8     | 4       | 8     | 8       | 12    | 9       | 4     | 6       | 6     | 8       |
| Less than 1 year  | 4     | 2       | 7     | 4       | 10    | 5       | 3     | 5       | 4     | 8       |
| 05 -09 years      | 0     | 1       | 0     | 1       | 0     | 0       | 1     | 2       | 2     | 0       |
| 10 -14 years      | 0     | 0       | 0     | 0       | 2     | 1       | 0     | 0       | 0     | 1       |
| 15 -19 years      | 0     | 2       | 4     | 3       | 1     | 2       | 1     |         | 2     | 0       |
| 20 -24 years      | 5     | 4       | 6     | 3       | 3     | 2       | 2     | 1       | 3     | 1       |
| 25 -29 years      | 2     | 1       | 6     | 1       | 4     | 1       | 1     | 1       | 5     | 4       |
| 30 -34 years      | 6     | 2       | 4     | 1       | 3     | 2       | 3     | 2       | 4     | 1       |
| 35 -39 years      | 4     | 1       | 4     | 6       | 11    | 2       | 9     | 3       | 10    | 1       |
| 40 -44 years      | 7     | 2       | 6     | 1       | 12    | 5       | 8     | 6       | 4     | 4       |
| 45 -49 years      | 10    | 1       | 4     | 12      | 11    | 4       | 7     | 5       | 8     | 4       |
| 50 -54 years      | 11    | 3       | 8     | 8       | 9     | 2       | 10    | 7       | 8     | 4       |
| 55 -59 years      | 4     | 2       | 3     | 6       | 8     | 5       | 7     | 3       | 11    | 0       |
| 60 -64 years      | 5     | 4       | 8     | 7       | 4     | 5       | 11    | 5       | 12    | 4       |
| 65 -69 years      | 5     | 3       | 9     | 6       | 11    | 2       | 5     | 10      | 5     | 5       |
| 70 -74 years      | 9     | 4       | 13    | 7       | 10    | 5       | 7     | 5       | 9     | 9       |
| 75 -79 years      | 11    | 4       | 5     | 7       | 4     | 7       | 2     | 1       | 7     | 7       |
| 80 -84 years      | 6     | 9       | 7     | 6       | 4     | 5       | 3     | 2       | 3     | 3       |
| 85 years and over | 2     | 7       | 4     | 8       | 7     | 5       | 2     | 5       | 2     | 8       |

Source: Commonwealth Health Center

**Table 2.16 Number of Deaths by Age and Category: 2000**

| Age Group        | Total | Category |              |          |         |         |
|------------------|-------|----------|--------------|----------|---------|---------|
|                  |       | Accident | Undetermined | Homicide | Natural | Suicide |
| Total            | 149   | 8        | 5            | 5        | 123     | 8       |
| 0 to 4 years     | 12    | 2        | 0            | 1        | 9       | 0       |
| 5 to 9 years     | 1     | 1        | 0            | 0        | 0       | 0       |
| 15 to 19 years   | 2     | 0        | 0            | 0        | 1       | 1       |
| 20 to 24 years   | 9     | 2        | 0            | 1        | 2       | 4       |
| 25 to 29 years   | 3     | 0        | 0            | 1        | 1       | 1       |
| 30 to 34 years   | 8     | 0        | 1            | 1        | 5       | 1       |
| 35 to 39 years   | 5     | 0        | 2            | 0        | 3       | 0       |
| 40 to 44 years   | 9     | 1        | 1            | 0        | 7       | 0       |
| 45 to 49 years   | 11    | 2        | 0            | 1        | 8       | 0       |
| 50 to 54 years   | 14    | 0        | 0            | 0        | 14      | 0       |
| 55 to 59 years   | 6     | 0        | 0            | 0        | 6       | 0       |
| 60 to 64 years   | 9     | 0        | 1            | 0        | 7       | 1       |
| 65 to 69 years   | 8     | 0        | 0            | 0        | 8       | 0       |
| 70 to 74 years   | 13    | 0        | 0            | 0        | 13      | 0       |
| 75 to 79 years   | 15    | 0        | 0            | 0        | 15      | 0       |
| 80 to 84 years   | 15    | 0        | 0            | 0        | 15      | 0       |
| 85 years or more | 9     | 0        | 0            | 0        | 9       | 0       |

Source: Department of Public Health, Vital Statistics

**Table 2.17 Registered Deaths by Month: 1994 to 2000**

| Month             | Year |      |      |      |      |      |      |
|-------------------|------|------|------|------|------|------|------|
|                   | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 |
| Total             | 149  | 189  | 180  | 147  | 165  | 170  | 137  |
| First six months  | 74   | 98   | 96   | 67   | 86   | 91   | 75   |
| January           | 16   | 18   | 14   | 11   | 18   | 14   | 12   |
| February          | 8    | 9    | 21   | 17   | 14   | 13   | 16   |
| March             | 12   | 17   | 11   | 9    | 11   | 21   | 14   |
| April             | 12   | 19   | 18   | 13   | 11   | 10   | 15   |
| May               | 10   | 20   | 12   | 12   | 22   | 14   | 11   |
| June              | 16   | 15   | 20   | 5    | 10   | 19   | 7    |
| Second six months | 75   | 91   | 84   | 80   | 79   | 79   | 62   |
| July              | 18   | 19   | 12   | 17   | 21   | 11   | 10   |
| August            | 15   | 11   | 15   | 11   | 14   | 22   | 10   |
| September         | 14   | 14   | 20   | 14   | 7    | 15   | 9    |
| October           | 9    | 13   | 10   | 15   | 13   | 15   | 11   |
| November          | 12   | 19   | 17   | 12   | 11   | 9    | 9    |
| December          | 7    | 15   | 10   | 11   | 13   | 7    | 13   |

Source: Commonwealth Health Center, Vital Statistics

**Table 2.18 Registered Infant Deaths by Month: 1993 to 2000**

| Month             | Year |      |      |      |      |      |      |      |
|-------------------|------|------|------|------|------|------|------|------|
|                   | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 |
| Total             | 149  | 11   | 15   | 8    | 12   | 11   | 10   | 16   |
| First six months  | 74   | 5    | 8    | 2    | 9    | 5    | 5    | 10   |
| January           | 16   | 3    | 2    | 0    | 1    | 0    | 0    | 3    |
| February          | 8    | 0    | 1    | 0    | 2    | 0    | 1    | 4    |
| March             | 12   | 0    | 1    | 0    | 0    | 4    | 1    | 0    |
| April             | 12   | 1    | 1    | 1    | 2    | 1    | 2    | 1    |
| May               | 10   | 1    | 2    | 0    | 3    | 0    | 1    | 0    |
| June              | 16   | 0    | 1    | 1    | 1    | 0    | 0    | 2    |
| Second six months | 75   | 6    | 7    | 6    | 3    | 6    | 5    | 6    |
| July              | 18   | 0    | 0    | 2    | 2    | 1    | 1    | 0    |
| August            | 15   | 3    | 2    | 1    | 0    | 3    | 0    | 2    |
| September         | 14   | 0    | 1    | 1    | 1    | 1    | 1    | 1    |
| October           | 9    | 3    | 1    | 1    | 0    | 0    | 2    | 0    |
| November          | 12   | 0    | 3    | 1    | 0    | 1    | 1    | 2    |
| December          | 7    | 0    | 0    | 0    | 0    | 0    | 0    | 1    |

Source: Commonwealth Health Center

Note: Infant deaths are deaths under 1 year, exclusive of fetal deaths.

Chapter 3  
EDUCATION

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## Summary of Education

The number of students enrolled in CNMI public schools has steadily increased since 1995. There were a total of 12,819 students enrolled in both public and private educational institutions during the 2000 school year. Enrollment figures have increased over time because of natural population growth, CNMI immigration, and program changes in the CNMI's Public School System. For example, in 1990, all public elementary schools integrated a kindergarten into their curriculum. During the same year, officials reconfigured two additional grade levels to be more uniform with American standards. Enrollment also increased in the Headstart program in 1990 due to increased funding.

CNMI private schools also experienced growth in student enrollment during the 1995-2000 period. Since 1982, more than 10 new private schools opened their doors. Private school enrollment comprised nearly 22% of CNMI's total student enrollment in 2000.

The lower grades continued to account for the largest proportion of total student enrollment. As students matriculate to higher grades, transfers and drop outs tend to increase.

The number of teachers and classroom assistants has also increased to meet rising demand. Data show that the number of school teachers with advanced degrees has increased over time as well. In fact, virtually all (99%) public and private school teachers in 1999 held 4 years college degrees compared to 83% five years earlier.

The student population is as diverse as CNMI's total population. However, local Chamorro, Carolinian, and "Chamollian" students continued to comprise nearly 75% of the student body in 2000.

Enrollment at the Northern Marianas College (NMC) appears to have risen and fallen with the economy, where levels peaked in 1997. The gender composition of NMC college students shifted from majority - male in 1994 to majority - female during subsequent academic years. In 1999 - 00, 58% of NMC students were female. Chamorros also comprised the majority of students enrolled in the Northern Marianas College in 1990.

Approximately 50% of all local college students that academic year were chamorro, 23% were Asian, 13% were Pacific Islanders, 8% were from other ethnicities and 6% were Carolinian.



**Table 3.1 Beginning of School Year Student Enrollment by School: School Years 1995 through 2000**

| School                           | School Year |         |         |         |         |
|----------------------------------|-------------|---------|---------|---------|---------|
|                                  | 1999-00     | 1998-99 | 1997-98 | 1996-97 | 1995-96 |
| Total Enrollment                 | 12,534      | 12,485  | 12,208  | 11,753  | 11,198  |
| Public Schools                   | 9,692       | 9,498   | 9,246   | 9,054   | 8,813   |
| Percent                          | 77          | 76      | 76      | 77      | 79      |
| Early Childhood / SPed (4)       | ...         | ...     | ...     | ...     | ...     |
| Headstart                        | 549         | 526     | 588     | 590     | 560     |
| Elementary Schools               |             |         |         |         |         |
| G.T. Camacho                     | 329         | 378     | 357     | 337     | 338     |
| Tanapag                          | 462         | 405     | 381     | 356     | 331     |
| Garapan                          | 899         | 918     | 876     | 881     | 872     |
| San Vicente                      | 827         | 1,113   | 1,058   | 1,018   | 891     |
| Oleai                            | 480         | 499     | 504     | 492     | 467     |
| W.S. Reyes                       | 725         | 819     | 773     | 790     | 767     |
| San Antonio                      | 355         | 347     | 341     | 337     | 313     |
| Kagman (3)                       | ...         | ...     | ...     | ...     | ...     |
| Koblerville                      | 449         | 413     | 400     | 375     | 330     |
| DanDan (2)                       | 407         | ...     | ...     | ...     | ...     |
| Tinian                           | 372         | 347     | 340     | 330     | 319     |
| Rota                             | 346         | 352     | 325     | 347     | 337     |
| Secondary Schools                |             |         |         |         |         |
| Hopwood Jr. High                 | 1,197       | 1,129   | 1,050   | 1,039   | 1,115   |
| Tinian Jr. High                  | 90          | 72      | 91      | 84      | 94      |
| Rota Jr. High                    | 107         | 102     | 100     | 104     | 95      |
| Marianas High                    | 1,738       | 1,718   | 1,701   | 1,638   | 1,661   |
| Tinian High                      | 170         | 179     | 168     | 163     | 157     |
| Rota High                        | 190         | 181     | 193     | 173     | 166     |
| Private schools                  | 2,842       | 2,987   | 2,962   | 2,699   | 2,385   |
| Percent                          | 23          | 24      | 24      | 23      | 21      |
| Mt. Carmel School                | 769         | 758     | 720     | 703     | 561     |
| Saipan Community School          | 208         | 218     | 223     | 226     | 222     |
| Grace Christian Academy          | 833         | 888     | 918     | 789     | 751     |
| Garden Harvest International (2) | 15          | ...     | ...     | ...     | ...     |
| Eucon International (1)          | 104         | 199     | ...     | ...     | ...     |
| Marianas Baptist Academy         | 83          | 85      | 79      | 87      | 65      |
| Calvary Christian Academy        | 148         | 170     | 175     | 150     | 124     |
| Sister Remedios Pre School       | 203         | 206     | 313     | 293     | 265     |
| Brilliant Star Montessori (3)    | ...         | ...     | ...     | ...     | ...     |
| Joshua Generation Academy        | 42          | 65      | 59      | 22      | ...     |
| 7th Day Adventist                | 93          | 99      | 108     | 96      | 84      |
| San Francisco De Borja, Rota     | 63          | 83      | 133     | 132     | 151     |
| Saint Joseph Tinian (2)          | 27          | ...     | ...     | ...     | ...     |
| Whispering Palms                 | 54          | 52      | 54      | 41      | 40      |
| Northern Marianas Academy        | 54          | 40      | 46      | 46      | 33      |
| Saipan International             | 146         | 124     | 134     | 114     | 89      |

Source: Public School System

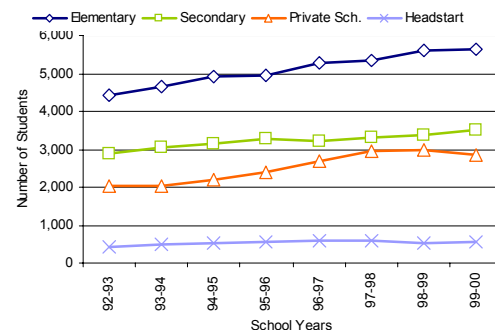
Note: (1) Opened in SY 1998-99. (2) Opened in SY 1999-00. (3) Opened in SY 2000-01.

(4) Data collection began in SY 2000-01

**Total Enrollment**

The total number of students enrolled in CNMI's schools increased steadily between 1995 and 2000 reaching 12,819 number of students.

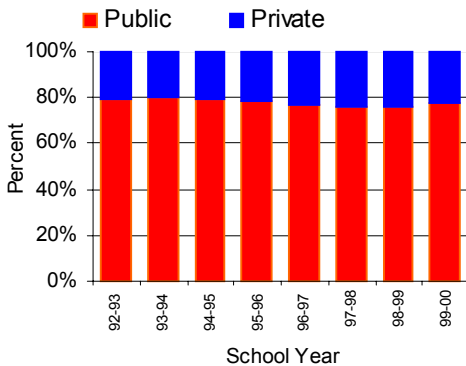
**Figure 3.1 Recent Enrollment Trends for PSS Headstart, Elementary and Secondary Levels and Private Schools: 1992 to 2000**



**Total Enrollments in Public and Private School**

Approximately 22% of all CNMI primary and secondary students were enrolled in private schools in 2000. Public school students have comprised the majority (80%) of all CNMI students since 1992.

**Figure 3.2** Percent of Total Enrollment in Public and in Private Schools: 1992 to 2000



**Enrollment by Grade Levels**

The lower grades continue to account for the largest proportion of total student enrollment. Transfers and dropouts tend to increase as students move into higher grades. Elevated enrollment in the lower grades may also be attributed to the construction of new private schools serving the specific needs of younger children.

**Table 3.2** Total Student Enrollment by Grade: School Years 1995 through 2000

| Grade                  | School Year |         |         |         |         |
|------------------------|-------------|---------|---------|---------|---------|
|                        | 1999-00     | 1998-99 | 1997-98 | 1996-97 | 1995-96 |
| Total Enrollment       | 12,534      | 12,485  | 12,208  | 11,753  | 11,198  |
| Pre-School             |             |         |         |         |         |
| Headstart              | 549         | 774     | 876     | 798     | 802     |
| Grade K                | 900         | 1,028   | 1,010   | 1,059   | 933     |
| Grade 1                | 1,282       | 1,214   | 1,160   | 1,110   | 1,024   |
| Grade 2                | 1,084       | 1,090   | 1,096   | 1,021   | 1,004   |
| Grade 3                | 1,090       | 1,075   | 1,025   | 1,056   | 1,015   |
| Grade 4                | 1,045       | 1,015   | 1,025   | 1,005   | 849     |
| Grade 5                | 982         | 996     | 1,023   | 864     | 824     |
| Grade 6                | 950         | 1,006   | 843     | 837     | 790     |
| Grade 7                | 906         | 871     | 871     | 842     | 870     |
| Grade 8                | 891         | 851     | 773     | 755     | 729     |
| Grade 9                | 897         | 937     | 688     | 770     | 751     |
| Grade 10               | 713         | 690     | 698     | 620     | 658     |
| Grade 11               | 544         | 495     | 546     | 589     | 482     |
| Grade 12               | 433         | 443     | 574     | 427     | 467     |
| Public School System   |             |         |         |         |         |
| Total                  | 9,692       | 9,498   | 9,246   | 9,054   | 8,813   |
| Headstart              | 549         | 526     | 588     | 590     | 560     |
| Early Childhood / SPED | ...         | ...     | ...     | ...     | ...     |
| Grade K                | 574         | 624     | 566     | 636     | 600     |
| Grade 1                | 974         | 913     | 872     | 880     | 783     |
| Grade 2                | 837         | 826     | 850     | 781     | 781     |
| Grade 3                | 878         | 839     | 781     | 819     | 810     |
| Grade 4                | 838         | 791     | 799     | 792     | 687     |
| Grade 5                | 787         | 783     | 816     | 687     | 665     |
| Grade 6                | 763         | 815     | 671     | 668     | 639     |
| Grade 7                | 700         | 653     | 656     | 639     | 711     |
| Grade 8                | 694         | 650     | 585     | 588     | 593     |
| Grade 9                | 746         | 761     | 546     | 620     | 609     |
| Grade 10               | 567         | 567     | 581     | 491     | 563     |
| Grade 11               | 441         | 398     | 436     | 498     | 405     |
| Grade 12               | 344         | 352     | 499     | 365     | 407     |
| Private Schools        |             |         |         |         |         |
| Total                  | 2,842       | 2,987   | 2,962   | 2,699   | 2,385   |
| Pre-School             | 268         | 248     | 288     | 208     | 242     |
| Grade K                | 326         | 404     | 444     | 423     | 333     |
| Grade 1                | 308         | 301     | 288     | 230     | 241     |
| Grade 2                | 247         | 264     | 246     | 240     | 223     |
| Grade 3                | 212         | 236     | 244     | 237     | 205     |
| Grade 4                | 207         | 224     | 226     | 213     | 162     |
| Grade 5                | 195         | 213     | 207     | 177     | 159     |
| Grade 6                | 187         | 191     | 172     | 169     | 151     |
| Grade 7                | 206         | 218     | 215     | 203     | 159     |
| Grade 8                | 197         | 201     | 188     | 167     | 136     |
| Grade 9                | 151         | 176     | 142     | 150     | 142     |
| Grade 10               | 146         | 123     | 117     | 129     | 95      |
| Grade 11               | 103         | 97      | 110     | 91      | 77      |
| Grade 12               | 89          | 91      | 75      | 62      | 60      |

Source: Public School System

Note: Private Schools Grade K figures include pre-school pupils in years prior to SY 1993-94

**Table 3.3 PSS Headstart Pupils and Staff by Center: School Years 1996 through 2000**

| Center             | Number of Pupils |       |       |       | Number of Staff |       |       |       |
|--------------------|------------------|-------|-------|-------|-----------------|-------|-------|-------|
|                    | 99-00            | 98-99 | 97-98 | 96-97 | 99-00           | 98-99 | 97-98 | 96-97 |
| Total              | 549              | 526   | 588   | 590   | 51              | 54    | 54    | 50    |
| Saipan             | 449              | 427   | 464   | 500   | 41              | 44    | 46    | 42    |
| San Roque (Paupau) | 19               | 20    | 20    | 20    | 2               | 2     | 2     | 2     |
| Tanapag            | 40               | 40    | 40    | 60    | 4               | 4     | 4     | 4     |
| Garapan            | 40               | 40    | 40    | 40    | 4               | 4     | 4     | 4     |
| O'hai              | 40               | 40    | 40    | 40    | 2               | 4     | 4     | 3     |
| San Vicente        | 41               | 40    | 40    | 40    | 3               | 4     | 4     | 2     |
| Dan Dan            | 60               | 59    | 60    | 60    | 6               | 6     | 6     | 6     |
| Susupe             | 19               | 20    | 20    | 20    | 2               | 2     | 2     | 2     |
| Chalan Kanoa       | 99               | 80    | 100   | 100   | 8               | 8     | 8     | 9     |
| San Antonio        | 51               | 48    | 64    | 80    | 4               | 4     | 6     | 6     |
| Kagman             | 40               | 40    | 40    | 40    | 4               | 4     | 4     | 4     |
| CK - Peer Program  | ...              | ...   | ...   | ...   | 2               | 2     | 2     | ...   |
| SA - Peer Program  | ...              | ...   | ...   | ...   | ...             | ...   | 2     | ...   |
| Thian              | 40               | 40    | 64    | 40    | 4               | 4     | 4     | 4     |
| Rota               | 60               | 59    | 60    | 50    | 6               | 6     | 4     | 4     |

Source: Public School System

Note: (1) Dan Dan Center opened in SY 1994-95; hence, no data for prior school years. Since SY 1995-96 Peer program mainstream with regular headstart program. Kagman and Paupau centers opened in SY 1996-97.

**Table 3.4 Number of Graduates, Secondary Public Schools: School Years 1981 through 2000**

| School Year | Number of Graduates |      | Percent Change |       |
|-------------|---------------------|------|----------------|-------|
|             | 8th                 | 12th | 8th            | 12th  |
| 1999-00     | 734                 | 432  | 36.2           | 26.7  |
| 1998-99     | 539                 | 341  | -3.6           | -8.8  |
| 1997-98     | 559                 | 374  | 12.5           | 21.0  |
| 1996-97     | 497                 | 309  | 4.4            | -4.0  |
| 1995-96     | 476                 | 322  | 17.0           | 0.9   |
| 1994-95     | 407                 | 319  | -20.2          | -2.7  |
| 1993-94     | 510                 | 328  | 52.2           | 33.9  |
| 1992-93     | 335                 | 245  | 30.9           | 9.9   |
| 1991-92     | 256                 | 223  | -17.7          | 2.3   |
| 1990-91     | 311                 | 218  | 11.5           | -12.8 |
| 1989-90     | 279                 | 250  | -4.8           | 22.5  |
| 1988-89     | 293                 | 204  | -12.0          | -29.2 |
| 1987-88     | 333                 | 288  | -28.1          | 5.1   |
| 1986-87     | 463                 | 274  | 40.3           | 14.6  |
| 1985-86     | 330                 | 239  | -7.3           | 0.0   |
| 1984-85     | 356                 | 239  | 1.7            | 0.8   |
| 1983-84     | 350                 | 237  | -22.4          | -10.6 |
| 1982-83     | 451                 | 265  | 40.5           | 18.8  |
| 1981-82     | 321                 | 223  | ...            | ...   |

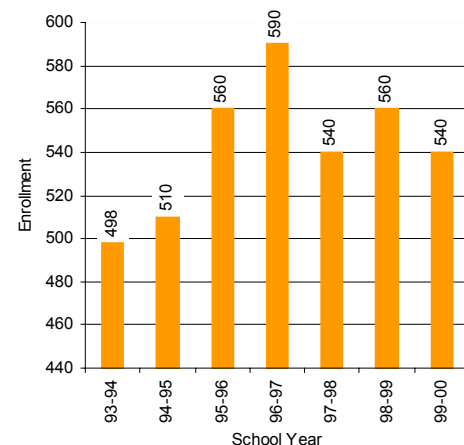
Source: Public School System Annual Report

Note: Beginning 1990-91, 8th graders graduated from Hopwood Jr. High, while 9th graders moved to Marianas High.

**Enrollment in Headstart Program**

The number of children enrolled in Headstart declined from 590 in school year 1996 to 540 in school year 2000.

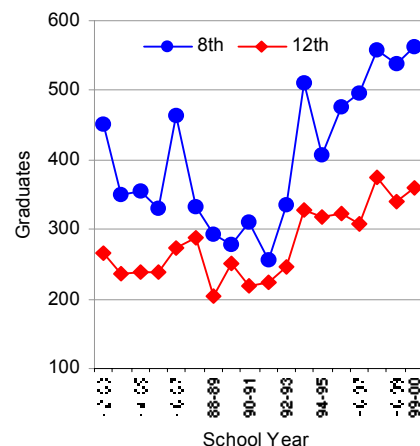
**Figure 3.3 Total Enrollment for PSS Headstart: 1993 to 2000**



**Number of Public School System (PSS) Graduates**

The number of students graduating from high schools and junior high schools fluctuated from year to year and but peaked during the 1997-98 school year. Since 1990, graduating from junior high school has been defined as completing 8th grade instead of 9th grade.

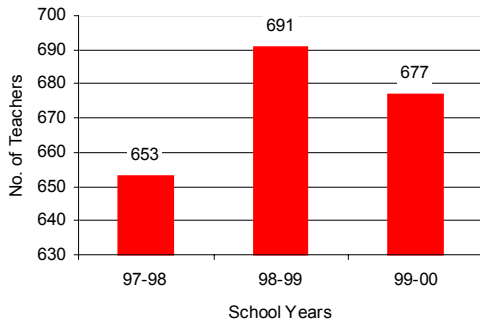
**Figure 3.4 Number of High School and Junior High School Graduates from PSS: 1982 to 2000**



### Number of Teachers

As expected, the number of teachers and assistants has increased to meet rising demand for their services.

**Figure 3.5** Number of Teachers: 1997 to 2000



**Table 3.5** Number of Teachers and Teacher Aides by School and School Year: School Years 1997 through 2000

| School                       | Teachers |       |       | Teacher Aides |       |       |
|------------------------------|----------|-------|-------|---------------|-------|-------|
|                              | 99-00    | 98-99 | 97-98 | 99-00         | 98-99 | 97-98 |
| All Teachers                 | 677      | 691   | 653   | 132           | 132   | 150   |
| Public School Teachers       | 481      | 485   | 464   | 113           | 114   | 129   |
| Elementary School Teachers   | 288      | 303   | 279   | 96            | 91    | 99    |
| G.T. Camacho                 | 17       | 19    | 17    | 6             | 4     | 5     |
| Tanapag                      | 22       | 23    | 24    | 8             | 8     | 9     |
| Garapan                      | 42       | 45    | 39    | 21            | 12    | 16    |
| San Vicente                  | 36       | 49    | 46    | 14            | 12    | 13    |
| Oleai                        | 28       | 30    | 27    | 8             | 14    | 15    |
| W.S. Reyes                   | 39       | 42    | 43    | 4             | 8     | 9     |
| San Antonio                  | 20       | 23    | 20    | 6             | 4     | 5     |
| Dan Dan                      | 18       | ...   | ...   | 8             | ...   | ...   |
| Kagman                       | ...      | ...   | ...   | ...           | ...   | ...   |
| Koblerville                  | 22       | 23    | 23    | 9             | 7     | 9     |
| Tinian Elem                  | 24       | 29    | 17    | 5             | 10    | 10    |
| Rota Elem.                   | 20       | 20    | 23    | 7             | 12    | 8     |
| High School Teachers         | 193      | 182   | 185   | 17            | 23    | 30    |
| Hopwood Junior High          | 56       | 51    | 54    | 8             | 16    | 16    |
| Tinian Jr. High              | 6        | 5     | 5     | 0             | 0     | 0     |
| Rota Jr. High                | 6        | 9     | 6     | 0             | 0     | 1     |
| Marianas High                | 95       | 81    | 83    | 6             | 5     | 8     |
| Tinian High                  | 14       | 16    | 16    | 1             | 0     | 1     |
| Rota High                    | 16       | 20    | 21    | 2             | 2     | 4     |
| Private School Teachers      | 196      | 206   | 189   | 19            | 18    | 21    |
| Saipan                       | 170      | 176   | 160   | 18            | 16    | 21    |
| Sister Remedios Pre Sch      | 12       | 13    | 17    | 6             | 9     | 9     |
| Brilliant Star Montessori    | ...      | ...   | ...   | ...           | ...   | ...   |
| Joshua Generation Academy    | 8        | 6     | 5     | 0             | 0     | 1     |
| Mt. Carmel School            | 45       | 48    | 45    | 0             | 0     | 0     |
| Grace Christian, Saipan      | 36       | 36    | 36    | 0             | 0     | 2     |
| Eucon International          | 9        | 17    | ...   | 2             | 1     | ...   |
| Marianas Baptist Academy     | 5        | 5     | 5     | 0             | 0     | 0     |
| Seventh Day Adventist        | 7        | 8     | 7     | 4             | 3     | 5     |
| Northern Marianas Academy    | 9        | 5     | 9     | 0             | 0     | 0     |
| Saipan Community             | 12       | 14    | 12    | 4             | 1     | 2     |
| Saipan International         | 9        | 8     | 10    | 2             | 2     | 2     |
| Cadbury Christian            | 11       | 11    | 9     | 0             | 0     | 0     |
| Whispering Palms             | 5        | 5     | 5     | 0             | 0     | 0     |
| Golden Harvest International | 2        | ...   | ...   | 0             | ...   | ...   |
| Rota                         |          |       |       |               |       |       |
| San Francisco De Borja       | 6        | 14    | 16    | 0             | 1     | 0     |
| Grace Christian, Rota        | 8        | 7     | 5     | 0             | 0     | 0     |
| Tinian                       |          |       |       |               |       |       |
| St. Joseph                   | 3        | ...   | ...   | 0             | ...   | ...   |
| Grace Christian Academy      | 9        | 9     | 8     | 1             | 1     | 0     |

Source: Public School System

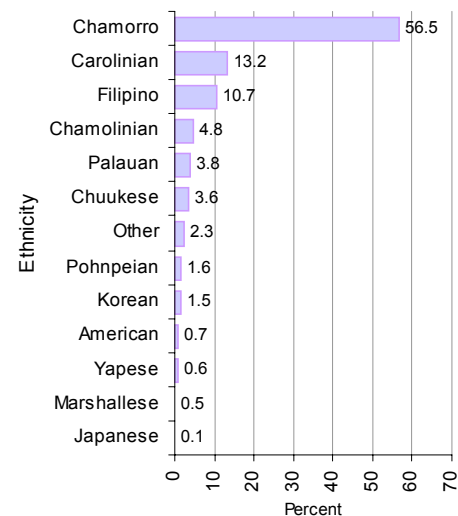
**Table 3.6 Students Enrolled in School by Ethnicity and School Year: School Years 1994 through 2000**

| Ethnicity       | School Year |         |         |         |         |         |
|-----------------|-------------|---------|---------|---------|---------|---------|
|                 | 1999-00     | 1998-99 | 1997-98 | 1996-97 | 1995-96 | 1994-95 |
| All Ethnicities | 9,143       | 8,972   | 8,658   | 8,465   | 8,250   | 8,047   |
| Chamorro        | 5,170       | 4,928   | 4,675   | 4,862   | 4,825   | 4,627   |
| Carolinian      | 1,203       | 1,218   | 1,239   | 974     | 979     | 1,028   |
| Chamolinian     | 441         | 431     | 390     | 293     | 327     | 364     |
| American        | 67          | 76      | 86      | 73      | 58      | 84      |
| Palauan         | 348         | 441     | 447     | 417     | 441     | 449     |
| Pohnpeian       | 150         | 197     | 159     | 160     | 147     | 159     |
| Yapese          | 57          | 58      | 53      | 74      | 50      | 47      |
| Chuukese        | 326         | 349     | 353     | 336     | 323     | 299     |
| Marshallese     | 47          | 42      | 35      | 37      | 37      | 28      |
| Filipino        | 980         | 931     | 911     | 852     | 801     | 749     |
| Korean          | 134         | 157     | 171     | 136     | 136     | 149     |
| Japanese        | 9           | 10      | 3       | 2       | 1       | 6       |
| Other           | 211         | 134     | 136     | 249     | 125     | 58      |

Source: Public School System

Note: Total in this table differ from totals in other tables: Headstart and Special Education ethnic breakdown were not included and the tabulations of total by ethnicity were performed at different times during the school year.

**Figure 3.6 Total CNMI Student Enrollment by Ethnicity: SY 1999-00**



CNMI's primary and secondary student population is growing increasingly diverse, although Chamorro and Carolinian children still comprised a majority of all students in 2000.

**Table 3.7 Student-Teacher Ratio by School Level: School Years 1995 through 2000**

| Level                    | School Year |         |         |         |         |
|--------------------------|-------------|---------|---------|---------|---------|
|                          | 1999-00     | 1998-99 | 1997-98 | 1996-97 | 1995-96 |
| Total                    | 18          | 17      | 18      | 20      | 19      |
| Public School            | 19          | 18      | 19      | 19      | 20      |
| Elementary (1-6 grade)   | 20          | 19      | 19      | 20      | 21      |
| Junior High (7-8 grade)  | 21          | 20      | 19      | 20      | 21      |
| High School (9-12 grade) | 17          | 18      | 17      | 17      | 16      |
| Private School           | 15          | 15      | 16      | 17      | 16      |
| Elementary               | 15          | 15      | 17      | 19      | 18      |
| Secondary                | 10          | 13      | 13      | 14      | 12      |

Source: Public School System

**Student-Teacher Ratio**

As expected, student-teacher ratio was slightly lower in private schools than in public schools for school years 1995 through 2000.

**Educational Background of Teachers**

By School Year 1999, all of CNMI's public and private school teachers had earned a college degree or greater, compared to 83% in School Year 1993.

**Northern Marianas College**

Since its establishment in 1982, average semester enrollment at the Northern Marianas College has steadily increased to 835 in School Year 1999.

**Table 3.8 Educational Background of Teachers: School Years 1993 through 2000**

| Educational Attainment | School Year |         |         |         |         |         |         |
|------------------------|-------------|---------|---------|---------|---------|---------|---------|
|                        | 1999-00     | 1998-99 | 1997-98 | 1996-97 | 1995-96 | 1994-95 | 1993-94 |
| Total                  | 460         | 485     | 469     | 441     | 422     | 432     | 423     |
| Associate of Arts      | 2           | 14      | 18      | 26      | 27      | 63      | 63      |
| Associate of Science   | 0           | 0       | 0       | 0       | 0       | 10      | 11      |
| Bachelor of Art        | 227         | 221     | 209     | 173     | 175     | 155     | 157     |
| Bachelor of Science    | 126         | 126     | 126     | 131     | 113     | 107     | 101     |
| Master of Art          | 104         | 122     | 115     | 109     | 104     | 81      | 79      |
| Master of Science      | 0           | 0       | 0       | 0       | 0       | 10      | 8       |
| Doctorate Degree, Phd  | 1           | 2       | 1       | 2       | 3       | 6       | 4       |

Source: Research Information & Training Center, PSS

**Table 3.9 Northern Marianas College Enrollment: School Years 1996 through 2000**

| School Year | Semester Average | Fall | Spring | Summer |
|-------------|------------------|------|--------|--------|
| 1996-1997   | 835              | 924  | 786    | 794    |
| 1997-1998   | 813              | 900  | 972    | 568    |
| 1998-1999   | 708              | 884  | 883    | 357    |
| 1999-2000   | 673              | 813  | 842    | 363    |

Source: Northern Marianas College 2000 Annual Report

**Table 3.10 Degrees Awarded from Northern Marianas College: School Years 1996 through 2000**

| Degree                                       | 99-00 | 98-99 | 97-98 | 96-97 |
|--|-------|-------|-------|-------|
| Total  | 101   | 109   | 238   | 251   |
| Associate of Arts                            | 50    | 45    | 82    | 118   |
| Associate of Applied Science                 | 33    | 30    | 5     | 6     |
| Associate of Science                         | 2     | 11    | 43    | 26    |
| Certificates                                 | 9     | 6     | 64    | 91    |
| Bachelor of Arts (University of Guam)        | 7     | 17    | 19    | 10    |
| Masters of Arts (San Diego State University) | 0     | 0     | 25    | 0     |

Source: Northern Mariana Islands College 2000 Annual Report

**Table 3.11 Educational Attainment: 1990 and 1995**

| Educational Attainment                       | Number |        | Percent Change<br>1990 to<br>1995 | Percent |       |
|--|--------|--------|-----------------------------------|---------|-------|
|  | 1995   | 1990   |                                   | 1995    | 1990  |
| Total 25 yrs & over                          | 34,802 | 24,633 | 41.3                              | 100.0   | 100.0 |
| No school                                    | 278    | 291    | -4.5                              | 0.8     | 1.2   |
| Elementary: 1 to 4 yrs                       | 599    | 799    | -25.0                             | 1.7     | 3.2   |
| 5 to 6 yrs                                   | 1,517  | 1,969  | -23.0                             | 4.4     | 8.0   |
| 7 years                                      | 393    | 434    | -9.4                              | 1.1     | 1.8   |
| 8 years                                      | 1,590  | 792    | 100.8                             | 4.6     | 3.2   |
| High school: 1 to 3 yrs                      | 3,332  | 2,922  | 14.0                              | 9.6     | 11.9  |
| 4 yrs., no diploma                           | 724    | 1,094  | -33.8                             | 2.1     | 4.4   |
| High school graduate,<br>include equivalency | 13,106 | 8,659  | 51.4                              | 37.7    | 35.2  |
| Some college, no degree                      | 4,396  | 2,627  | 67.3                              | 12.6    | 10.7  |
| College: 1 to 3 yrs                          | 2,708  | 1,191  | 127.4                             | 7.8     | 4.8   |
| College Degree or more                       | 6,159  | 3,855  | 59.8                              | 17.7    | 15.6  |

Source: 1990 CPH-6-CNMI Table 13, and 1995 Mid-Decade Census Table 17

**Educational Attainment**

The proportion of adults aged 25 years or older earning at least a high school degree increased substantially between 1990 and 1995. Approximately two-thirds of adults in 1990 had obtained at least a high school degree compared to three-quarters in 1995. However, improvements in educational attainment may be indicative of the presence of immigrants who tend to arrive having high school degrees or greater.

**Table 3.12 Female Educational Attainment: 1990 and 1995**

| Educational Attainment                       | Number |        | Percent Change<br>1990 to<br>1995 | Percent |       |
|--|--------|--------|-----------------------------------|---------|-------|
|  | 1995   | 1990   |                                   | 1995    | 1990  |
| Total 25 yrs & over                          | 16,617 | 10,188 | 63.1                              | 100.0   | 100.0 |
| No school                                    | 160    | 156    | 2.6                               | 1.0     | 1.5   |
| Elementary: 1 to 4 yrs                       | 346    | 410    | -15.6                             | 2.1     | 4.0   |
| 5 to 6 yrs                                   | 771    | 749    | 2.9                               | 4.6     | 7.4   |
| 7 years                                      | 183    | 169    | 8.3                               | 1.1     | 1.7   |
| 8 years                                      | 1,054  | 376    | 180.3                             | 6.3     | 3.7   |
| High school: 1 to 3 yrs                      | 2,015  | 1,407  | 43.2                              | 12.1    | 13.8  |
| 4 yrs., no diploma                           | 332    | 571    | -41.9                             | 2.0     | 5.6   |
| High school graduate,<br>include equivalency | 6,043  | 3,333  | 81.3                              | 36.4    | 32.7  |
| Some college, no degree                      | 2,866  | 1,438  | 99.3                              | 17.2    | 14.1  |
| College Degree or more                       | 2,847  | 1,579  | 80.3                              | 17.1    | 15.5  |

Source: 1990 CPH-6-CNMI Table 13, and 1995 Mid-Decade Census Table 17

**Female Educational Attainment**

The proportion of women obtaining a high school degree or greater increased between 1990 and 1995. Additionally, the proportion of females earning a college degree or greater rose from 15.5% to 17.1% overtime.

### Male Educational Attainment

The proportion of men obtaining a high school degree or higher increased between 1990 and 1995. Additionally, the proportion of men earning a college degree or greater rose from 15.8% in 1990 to 18.2% in 1995.

**Table 3.13 Male Educational Attainment: 1990 and 1995**

| Educational Attainment                       | Number |        | Percent Change 1990 to 1995 | Percent |       |
|--|--------|--------|-----------------------------|---------|-------|
|  | 1995   | 1990   |                             | 1995    | 1990  |
| Total 25 yrs & over                          | 18,185 | 14,445 | 25.9                        | 100.0   | 100.0 |
| No school                                    | 118    | 135    | -12.6                       | 0.6     | 0.9   |
| Elementary: 1 to 4 yrs                       | 253    | 389    | -35.0                       | 1.4     | 2.7   |
| 5 to 6 yrs                                   | 746    | 1,220  | -38.9                       | 4.1     | 8.4   |
| 7 years                                      | 210    | 265    | -20.8                       | 1.2     | 1.8   |
| 8 years                                      | 536    | 416    | 28.8                        | 2.9     | 2.9   |
| High school: 1 to 3 yrs                      | 1,317  | 1,515  | -13.1                       | 7.2     | 10.5  |
| 4 yrs., no diploma                           | 392    | 523    | -25.0                       | 2.2     | 3.6   |
| High school graduate,<br>include equivalency | 7,063  | 5,326  | 32.6                        | 38.8    | 36.9  |
| Some college, no degree                      | 4,238  | 2,380  | 78.1                        | 23.3    | 16.5  |
| College Degree or more                       | 3,312  | 2,276  | 45.5                        | 18.2    | 15.8  |

Source: 1990 CPH-6-CNMI Table 13, and 1995 MFDecade Census Table 17

**Table 3.14 Number of Private School Graduates by Name of Institution: School Years 1994 through 2000**

| School                    | School Year |         |         |         |         |         |
|---------------------------|-------------|---------|---------|---------|---------|---------|
|                           | 1999-00     | 1998-99 | 1997-98 | 1996-97 | 1995-96 | 1994-95 |
| Total                     | 263         | 279     | 209     | 192     | 175     | 205     |
| Junior High (8th)         | 177         | 189     | 142     | 126     | 123     | 138     |
| Mt. Camel Jr. High        | 69          | 70      | 75      | 64      | 57      | 75      |
| Calvary Christian Acad.   | 7           | 5       | ...     | ...     | ...     | ...     |
| Eucon Intl. Sch.          | 7           | 8       | ...     | ...     | ...     | ...     |
| Saipan Community School   | 18          | 21      | 14      | 20      | 23      | 19      |
| Grace Christian Academy   | 52          | 50      | 39      | 28      | 29      | 27      |
| San Francisco De Borja    | 5           | 7       | ...     | ...     | ...     | ...     |
| Saipan Intl. Sch.         | 3           | 1       | ...     | ...     | ...     | ...     |
| Seventh Day Adventist     | 10          | 11      | 12      | 9       | 8       | 12      |
| Marianas Baptist Acad.    | 5           | 15      | ...     | ...     | ...     | ...     |
| Whispering Palms          | 1           | 1       | 2       | 5       | 6       | 5       |
| High School (12th)        | 86          | 90      | 67      | 66      | 52      | 67      |
| Mt. Camel High            | 37          | 50      | 27      | 32      | 15      | 31      |
| Northern Marianas Academy | 14          | 6       | 5       | 10      | 5       | 5       |
| Grace Christian Academy   | 23          | 27      | 23      | 24      | 25      | 27      |
| Marianas Baptist Academy  | 12          | 7       | 12      | ...     | 6       | 3       |
| Calvary Christian Academy | ...         | ...     | ...     | ...     | 1       | 1       |

Source: Public School System



**Table 3.15 Number of Graduates From Secondary Private Schools by Year: School Years 1984 through 2000**

| School Year | Number of Graduates |      | Percent Change |       |
|-------------|---------------------|------|----------------|-------|
|             | 8th                 | 12th | 8th            | 12th  |
| 1999-00     | 177                 | 72   | 11.9           | 6.9   |
| 1998-99     | 189                 | 84   | 33.3           | 21.4  |
| 1997-98     | 156                 | 67   | 19.2           | 1.5   |
| 1996-97     | 126                 | 66   | 2.4            | 21.2  |
| 1995-96     | 123                 | 52   | -12.2          | -28.8 |
| 1994-95     | 138                 | 67   | 17.4           | 16.4  |
| 1993-94     | 114                 | 56   | 49.1           | -3.6  |
| 1992-93     | 58                  | 58   | -19.0          | 37.9  |
| 1991-92     | 69                  | 36   | -37.7          | 0.0   |
| 1990-91     | 95                  | 36   | 48.4           | 5.6   |
| 1989-90     | 49                  | 34   | 46.9           | 5.9   |
| 1988-89     | 26                  | 32   | -215.4         | 15.6  |
| 1987-88     | 82                  | 27   | 11.0           | 25.9  |
| 1986-87     | 73                  | 20   | -2.7           | -35.0 |
| 1985-86     | 75                  | 27   | 26.7           | 14.8  |
| 1984-85     | 55                  | 23   | ...            | ...   |

Source: Public School System

Note: "... means not available. Number of graduates may differ due to the timeliness of report submission.

**Table 3.16 Graduates from Northern Marianas College: 1995 to 2000**

| Degree                        | School Year |      |      |      |      |      |
|-------------------------------|-------------|------|------|------|------|------|
|                               | 2000        | 1999 | 1998 | 1997 | 1996 | 1995 |
| Total                         | 101         | 103  | 172  | 140  | 118  | 111  |
| Associate of Arts             | 50          | 45   | 92   | 99   | 88   | 80   |
| Business and Public Adm in.   | 0           | 0    | 0    | 0    | 1    | 1    |
| Business and Public Adm in.   | 0           | 3    | 13   | 3    | 7    | 5    |
| Education                     | 0           | 3    | 15   | 20   | 21   | 2    |
| Education Summary             | 3           | 0    | 3    | 3    | 3    | 3    |
| Liberal Arts                  | 47          | 39   | 61   | 73   | 56   | 69   |
| Associate of Applied Science  | 9           | 14   | 13   | 9    | 8    | 8    |
| Construction Trades           | 1           | 0    | 1    | 1    | 0    | 0    |
| Criminal Justice              | 8           | 12   | 8    | 3    | 5    | 5    |
| Electrical Inst. Mgmt         | 0           | 0    | 1    | 1    | 0    | 0    |
| Hospitality Management        | 0           | 2    | 3    | 4    | 2    | 3    |
| Tourism Industry Mgmt         | 0           | 0    | 0    | 0    | 1    | 0    |
| Assoc. of A.S. in Bus Adm in. | 24          | 16   | 20   | 17   | 8    | 12   |
| Accounting                    | 5           | 5    | 0    | 6    | 2    | 3    |
| Data Processing               | 0           | 3    | 4    | 3    | 2    | 0    |
| Computer Applications         | 10          | ...  | ...  | ...  | ...  | ...  |
| Business Management           | 8           | 7    | 10   | 5    | 2    | 5    |
| Sales & Marketing             | 0           | 0    | 0    | 3    | 0    | 3    |
| Office Technology             | 1           | 1    | 6    | 0    | 2    | 1    |
| Associate of Science          | 2           | 11   | 5    | 5    | 0    | 11   |
| Nursing                       | 2           | 11   | 5    | 5    | 0    | 11   |
| Others                        | 16          | 17   | 42   | 10   | 14   | 0    |

Source: Northern Marianas College

**College Enrollment by Gender**

NMC enrollment has fluctuated between the 1994 and 1999 school years. Males comprised the majority of students (61%) in 1994-95, however the proportion of female students increased substantially thereafter. Since the 1995 school year, approximately 58% of NMC students each year are female.

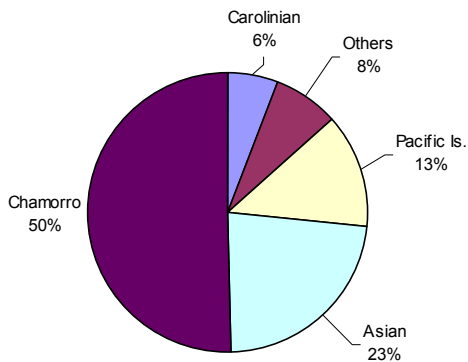
**Table 3.17 Northern Marianas College Enrollment by Gender: School Years 1994 through 2000**

| School Years | Total | Gender  |       |
|--------------|-------|---------|-------|
|              |       | Females | Males |
| 1999-00      | 1,492 | 889     | 603   |
| 1998-99      | 1,607 | 943     | 664   |
| 1997-98      | 1,884 | 1,099   | 785   |
| 1996-97      | 1,721 | 991     | 730   |
| 1995-96      | 1,647 | 932     | 715   |
| 1994-95      | 1,590 | 614     | 976   |

Source: Northern Marianas College 2000 and 1998 Annual Reports

\*Note: Includes part-time and full-time enrollment

**Figure 3.7 Percentage of Enrolled Students by Ethnicity, NMC: 2000**



**Table 3.18 Northern Marianas College Enrollment by Ethnicity: School Years 1994 through 2000**

| School Years | Total | Ethnicity |            |                   |       |       |
|--------------|-------|-----------|------------|-------------------|-------|-------|
|              |       | Chamorro  | Carolinian | Pacific Islanders | Asian | Other |
| 1999-00      | 1,502 | 753       | 89         | 199               | 348   | 113   |
| 1998-99      | 1,607 | 784       | 120        | 199               | 355   | 149   |
| 1997-98      | 1,884 | 1011      | 129        | 219               | 353   | 172   |
| 1996-97      | 1,721 | 919       | 121        | 185               | 306   | 190   |
| 1995-96      | 1,647 | 880       | 123        | 194               | 312   | 138   |
| 1994-95      | 1,590 | 843       | 124        | 196               | 257   | 170   |

Source: Northern Marianas College 2000 and 1998 Annual Reports.

\*Note: Includes part-time and full-time enrollment.

**NMC Enrollment by Ethnicity**

Chamorros have comprised the majority of all NMC students each year for which data are available. In 1999-00 50% of the student population was Chamorro, 23% were Asian, 13% were Pacific Islanders, nearly 8% were of other ethnicities and 6% were Carolinian.

Chapter 4  
LABOR FORCE AND  
EMPLOYMENT

---

## Labor Force and Employment Summary

The composition of CNMI's labor force has changed dramatically over the past twenty years. The labor force participation rate among all adults increased significantly, from 63% in 1980 to an estimated 81% in 1999. Women's labor force activity more than doubled from 39% to 78% over time and the proportion of working mothers increased substantially as well. For the first time ever, women comprised 54% of CNMI's labor force in 1999, due largely to immigration. Men's labor force participation also rose from 77% in 1980 to 85% in 1999, although this represents a decline from a rate of 90% in 1995 during more prosperous economic times. The CNMI unemployment rate for 1999 is estimated to be 4.3%, however including adults not active in the labor force drives this figure up much higher.

Labor force data also show that Filipinos comprised the largest working single ethnic group in 1999, which is to be expected since the majority of all adults living in the CNMI are now Filipino. The labor force participation rate for Filipinos was more than twice the rate for Chamorros, the third largest single ethnic group represented in the labor force. This is a dramatic shift from 1980 when Chamorros comprised the largest ethnic group in the general population as well as in the labor force.

Education is positively associated with labor force activity. Approximately 94% of all adults with bachelor's degrees worked in 1995, compared to 90% of adults with high school degrees and 85% of those with elementary level education. Obtaining a high school degree appears to have the greatest impact on labor force participation, according to census data.

Private sector employment increased tremendously over the 1980-1999 period. In 1980, approximately 55% of the labor force worked for private companies and over 42% worked in the government sector. By 1995, nearly 83% of all labor force participants worked for private companies. This change is attributed to the growth of apparel manufacturing in the region.

Accelerated migration has shifted CNMI's labor force composition from majority-US citizen to majority noncitizen between 1973 and 1999. Previously, 72% of the labor force was comprised of US citizens, whereas 26% of workers in 1999 were US citizens. This shift was most pronounced among working women, 21% of whom were citizens in 1999 compared to 31% of working men. By industry, data indicate that the proportion of US citizen workers in services has remained relatively stable over time, about 32% to 34%. The proportion of US citizens employed in public administration increased from 28% in 1980 to 35% in 1999. Over time, US citizens have continued to account for a small fraction of manufacturing workers (6% in 1999).

A closer examination of gender and employment shows that males in the CNMI are concentrated in construction while females dominate the apparel manufacturing industry. The proportion of males working in construction and public administration decreased from 1980 to 1990, although men entered the retail trade in higher numbers in 1999 than in previous years. The proportion of women in manufacturing rose from 1% to 44% over the two decades, while the proportion employed in services decreased (from 46% in 1980 to 32% in 1990). The percentage of women employed in professional and related services decreased from 24% to 7% over time as well.

Overall, Chamorros and Carolinians dominated occupations in the public sector, whereas Filipinos were concentrated in services and the retail trade. Chinese workers comprised the majority of all manufacturing jobs and Koreans tended to work in retail trades in 1999.

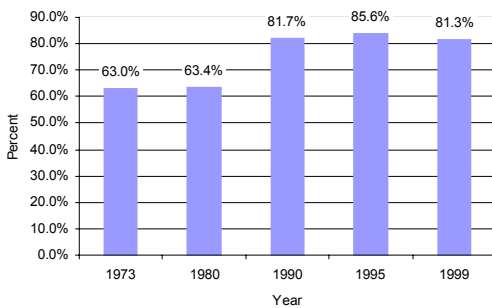
The number of nonresident work permits has risen and fallen with the economy, and most permits were issued to Chinese workers for jobs in the apparel industry. Overall, women accounted for 55% of all nonresident permits and workers' ethnicity largely determined the type of occupation for which the permit was issued.

## Labor Force Participation

Between 1973 and 1999, dramatic changes occurred in the CNMI labor force.

- The labor participation rate among all persons 16 years and older rose from 63% to nearly 82%.
- Women's labor force participation increased from 39% to 78%. Data were not available for this pressing.

**Figure 4.1** CNMI Labor Force Participation Rate: 1973 to 1999



## Unemployment

The CNMI unemployment rate in 1995 (7.3%) was higher than in 1990 (2.3%). The estimated unemployment rate in 1999 was 4.3%.

Women had a higher unemployment rate (8.6%) than men (5.8%) in 1995. However, in 1999, the unemployment rate for women was estimated at 3.7% compared to 5.0% for men.

By island, Tinian had the lowest unemployment of 5.1% in 1995, followed by Saipan (7.2%), then Rota (10.5%).

## Employment by Island

In 1995, the vast majority of all workers in the CNMI were in Saipan, where most businesses are located and where the large majority of population live. This was still the case in 1999.

**Table 4.1** CNMI Labor Force Participation: 1973 to 1999

| Labor Force Participation        | Year  |       |        |        |        |
|----------------------------------|-------|-------|--------|--------|--------|
|                                  | 1973  | 1980  | 1990   | 1995   | 1999   |
| Persons 16 years and over        | 7,601 | 9,599 | 32,522 | 43,846 | 59,922 |
| In labor force                   | 4,787 | 6,089 | 26,581 | 37,540 | 48,693 |
| <i>Percent of 16 + yrs</i>       | 63.0  | 63.4  | 81.7   | 85.6   | 81.3   |
| Employed                         | 4,186 | 5,941 | 25,965 | 34,812 | 46,590 |
| At work 35 or more hours         | 3,945 | 5,448 | 24,573 | 32,545 | ...    |
| Unemployed                       | 601   | 148   | 616    | 2,728  | 2,103  |
| <i>Percent of civilian labor</i> | 12.6  | 2.4   | 2.3    | 7.3    | 4.3    |
| Not in labor force               | 2,814 | 3,497 | 5,933  | 6,306  | 11,229 |
| Female 16 years and over         | 3,533 | 4,402 | 15,256 | 22,211 | 33,116 |
| In labor force                   | 1,373 | 2,094 | 11,491 | 18,033 | 25,967 |
| <i>Percent of 16 + yrs</i>       | 38.9  | 47.6  | 75.3   | 81.2   | 78.4   |
| Employed                         | 1,075 | 2,039 | 11,183 | 16,475 | 25,002 |
| At work 35 or more hours         | 995   | 1,777 | 10,526 | 15,359 | ...    |
| Unemployed                       | 298   | 55    | 308    | 1,558  | 965    |
| <i>Percent of civilian labor</i> | 21.7  | 2.6   | 2.7    | 8.6    | 3.7    |
| Not in labor force               | 2,160 | 2,308 | 3,763  | 4,178  | 7,149  |
| Male 16 years and over           | 4,068 | 5,197 | 17,266 | 21,635 | 26,806 |
| In labor force                   | 3,414 | 3,995 | 15,090 | 19,507 | 22,726 |
| <i>Percent of 16 + yrs</i>       | 83.9  | 76.9  | 87.4   | 90.2   | 84.8   |
| Employed                         | 3,111 | 3,902 | 14,782 | 18,337 | 21,588 |
| At work 35 or more hours         | 2,950 | 3,671 | 14,047 | 17,186 | ...    |
| Unemployed                       | 303   | 93    | 308    | 1,170  | 1,138  |
| <i>Percent of civilian labor</i> | 8.9   | 2.3   | 2.0    | 6.0    | 5.0    |
| Not in labor force               | 654   | 1,189 | 2,170  | 2,128  | 4,080  |

Source: Recent Trends in Population, Current Labor Force Survey Table A8.0

**Table 4.2** CNMI Labor Force Participation by Gender and Island: 1995

| Labor Force          | 1995   |        |       |        |         |
|----------------------|--------|--------|-------|--------|---------|
|                      | Total  | Saipan | Rota  | Tinian | N. Isl. |
| Males 16+ years      | 21,635 | 19,225 | 1,489 | 917    | 4       |
| Labor force          | 19,507 | 17,258 | 1,311 | 827    | 2       |
| <i>Percent</i>       | 90.2   | 89.8   | 88.0  | 90.2   | 50.0    |
| U.S. Armed Forces    | 0      | 0      | 0     | 0      | 1       |
| Civilian labor force | 19,507 | 17,258 | 1,311 | 827    | 2       |
| Employed             | 18,337 | 16,272 | 1,192 | 803    | 1       |
| Unemployed           | 1,170  | 986    | 119   | 24     | 1       |
| <i>Percent</i>       | 6.0    | 5.7    | 9.1   | 2.9    | 50.0    |
| Not in labor force   | 2,128  | 1,967  | 178   | 90     | 2       |
| Females 16+ years    | 22,211 | 20,417 | 1,011 | 780    | 3       |
| Labor force          | 18,033 | 16,638 | 767   | 628    | 0       |
| <i>Percent</i>       | 81.2   | 81.5   | 75.9  | 80.5   | ...     |
| U.S. Armed Forces    | 0      | 0      | 0     | 0      | 0       |
| Civilian labor force | 18,033 | 16,638 | 767   | 628    | 0       |
| Employed             | 16,475 | 15,225 | 672   | 578    | 0       |
| Unemployed           | 1,558  | 1,413  | 95    | 50     | 0       |
| <i>Percent</i>       | 8.6    | 8.5    | 12.4  | 8.0    | ...     |
| Not in labor force   | 4,178  | 3,779  | 244   | 152    | 3       |

Source: 1995 Mid-Decade Census Table 19

**Table 4.3 Labor Force Participation by Island: 1995**

| Labor Force          | Total  | Island |       |        |         |
|----------------------|--------|--------|-------|--------|---------|
|                      |        | Saipan | Rota  | Tinian | N. Isl. |
| Persons 16+ years    | 43,846 | 39,642 | 2,500 | 1,697  | 7       |
| Labor force          | 37,540 | 33,993 | 2,089 | 1,456  | 2       |
| Percent              | 85.6   | 85.7   | 83.6  | 85.8   | 28.6    |
| U.S. Armed Forces    | 0      | 0      | 0     | 0      | 0       |
| Civilian labor force | 37,540 | 33,993 | 2,089 | 1,456  | 2       |
| Employed             | 34,812 | 31,560 | 1,869 | 1,382  | 1       |
| Unemployed           | 2,728  | 2,433  | 220   | 74     | 1       |
| Percent              | 7.3    | 7.2    | 10.5  | 5.1    | 50.0    |
| Not in labor force   | 6,306  | 5,649  | 411   | 241    | 5       |

Source: 1995 Mid-Decade Census Table 19

**Table 4.4 Male Labor Force Participation by Island: 1995**

| Labor force          | Total  | Island |       |        |         |
|----------------------|--------|--------|-------|--------|---------|
|                      |        | Saipan | Rota  | Tinian | N. Isl. |
| Males 16+ years      | 21,635 | 19,225 | 1,489 | 917    | 4       |
| Labor force          | 19,398 | 17,258 | 1,311 | 827    | 2       |
| Percent              | 89.7   | 89.8   | 88.0  | 90.2   | 50.0    |
| U.S. Armed Forces    | 0      | 0      | 0     | 0      | 0       |
| Civilian labor force | 19,398 | 17,258 | 1,311 | 827    | 2       |
| Employed             | 18,268 | 16,272 | 1,192 | 803    | 1       |
| Unemployed           | 1,130  | 986    | 119   | 24     | 1       |
| Percent              | 5.8    | 5.7    | 9.1   | 2.9    | 50.0    |
| Not in labor force   | 2,237  | 1,967  | 178   | 90     | 2       |

Source: 1995 Mid-Decade Census Table 19

**Table 4.5 Female Labor Force Participation by Island: 1995**

| Labor Force          | Total  | Island |       |        |         |
|----------------------|--------|--------|-------|--------|---------|
|                      |        | Saipan | Rota  | Tinian | N. Isl. |
| Females 16+ years    | 22,211 | 20,417 | 1,011 | 780    | 3       |
| Labor force          | 18,033 | 16,638 | 767   | 628    | 0       |
| Percent              | 81.2   | 81.5   | 75.9  | 80.5   | ...     |
| U.S. Armed Forces    | 0      | 0      | 0     | 0      | 0       |
| Civilian labor force | 18,033 | 16,638 | 767   | 628    | 0       |
| Employed             | 16,475 | 15,225 | 672   | 578    | 0       |
| Unemployed           | 1,558  | 1,413  | 95    | 50     | 0       |
| Percent              | 8.6    | 8.5    | 12.4  | 8.0    | ...     |
| Not in labor force   | 4,178  | 3,779  | 244   | 152    | 3       |

Source: 1995 Mid-Decade Census Table 19

**Labor Force by Island**

The CNMI's unemployment rate was highest in Rota in 1995. No significant difference was found in labor participation by island; however, unemployment was lowest in Tinian. The small population of the Northern Islands precludes any analysis of labor force rates.

### Working Mothers in the CNMI

CNMI population growth between 1990 and 1995 is reflected in the increase in the numbers of women with children. Over five years, working mothers substantially increased their labor force participation. The proportion of working mothers increased from 60% in 1990 to 69.4% in 1995. Additionally, the proportion of working mothers with preschool children rose significantly from approximately 60% to 71% over this short period of time.

**Table 4.6 Female Labor Force Participants with Own Children: 1990 and 1995**

| Labor Force                        | Number |        | Percent Change<br>1990 to<br>1995 | Percent |       |
|------------------------------------|--------|--------|-----------------------------------|---------|-------|
|                                    | 1995   | 1990   |                                   | 1995    | 1990  |
| Females, 16 + yrs                  | 22,211 | 15,256 | 45.6                              | 100.0   | 100.0 |
| With own child < 18 yrs            | 7,185  | 3,914  | 83.6                              | 32.3    | 25.7  |
| In the labor force                 | 4,989  | 2,349  | 112.4                             | 22.5    | 15.4  |
| Percent                            | 69.4   | 60.0   | ...                               | ...     | ...   |
| With own child < 6 yrs             | 3,616  | 2,414  | 49.8                              | 16.3    | 15.8  |
| In the labor force                 | 2,555  | 1,452  | 76.0                              | 11.5    | 9.5   |
| Percent                            | 70.7   | 60.1   | ...                               | ...     | ...   |
| With own child 6 yrs<br>to 17 yrs. | 3,569  | 1,500  | 137.9                             | 16.1    | 9.8   |
| In the labor force                 | 2,434  | 897    | 171.3                             | 11.0    | 5.9   |
| Percent                            | 68.2   | 59.8   | ...                               | ...     | ...   |

Source: 1990 CPH-6-CNM I Table 15, and 1995 M I-Decade Census Table 68

### Educational Attainment and Labor Force Participation

As expected, higher level of education is positively related with labor force participation. Census data show that approximately 94% of adults with bachelors degrees participated in the labor force in 1995, compared to about 90% of those with high school degrees and 85% of those with 8 year of education. Obtaining a high school degree appears to have the biggest impact on labor force participation, both for men and women.

**Table 4.7 Persons in Labor Force by Educational Attainment: 1995**

| Educational Attainment                 | Percent in the Labor Force |       |         |
|--|----------------------------|-------|---------|
|  | Total                      | Males | Females |
| Total in labor force (16 yrs & over)   | 85.3                       | 89.7  | 81.2    |
| Elementary                             |                            |       |         |
| 0 to 7 yrs                             | 66.4                       | 89.0  | 50.3    |
| 8 years                                | 85.1                       | 83.3  | 85.8    |
| High school                            |                            |       |         |
| 1 year                                 | 84.0                       | 81.6  | 85.0    |
| 2 years                                | 70.2                       | 76.2  | 64.2    |
| 3 years                                | 64.3                       | 67.5  | 61.9    |
| 4 yrs. no diploma                      | 68.5                       | 75.8  | 61.0    |
| High school graduate                   | 89.7                       | 94.1  | 85.2    |
| College                                |                            |       |         |
| Some college, no degree                | 88.1                       | 91.7  | 83.1    |
| Associate degree, Occupational program | 93.2                       | 96.3  | 88.3    |
| Associate degree, Academic program     | 88.0                       | 92.9  | 83.5    |
| Bachelor's degree                      | 93.5                       | 96.0  | 90.8    |
| Graduate or professional degree        | 91.8                       | 92.9  | 90.1    |

Source: 1995 M I-Decade Census Table 115



**Table 4.8 Labor Force Participation by Selected Ethnic Group: 1999**

| Labor Force Participation | All Persons | Chamorro | Carolinian | Filipino |
|---------------------------|-------------|----------|------------|----------|
| Total 16 + yrs            | 52,800      | 8,731    | 1,615      | 16,860   |
| In the labor force        | 44,273      | 5,460    | 797        | 15,633   |
| Percent                   | 83.9        | 62.5     | 49.3       | 92.7     |
| Employed                  | 42,147      | 4,764    | 654        | 15,306   |
| Percent                   | 95.2        | 87.3     | 82.1       | 97.9     |
| Unemployed                | 2,127       | 695      | 143        | 327      |
| Percent                   | 4.8         | 12.7     | 17.9       | 2.1      |
| Not in labor force        | 8,527       | 3,272    | 818        | 1,227    |
| Percent                   | 16.1        | 37.5     | 50.7       | 7.3      |

Source: Current Labor Force Survey Table 46

**Labor Force Participation by Ethnicity**

Filipinos had the highest labor force participation rate in the CNMI in 1999. Other ethnic groups not shown also had high rates of labor force participation.

**Table 4.9 Labor Force Participation by Selected Ethnic Group: 1995**

| Labor Force Participation | All Persons | Chamorro | Carolinian | Filipino |
|---------------------------|-------------|----------|------------|----------|
| Total 16 + yrs            | 43,846      | 9,231    | 1,739      | 17,354   |
| In the labor force        | 37,540      | 6,390    | 1,036      | 16,548   |
| Percent                   | 85.6        | 69.2     | 59.6       | 95.4     |
| Employed                  | 34,812      | 5,551    | 825        | 15,958   |
| Percent                   | 92.7        | 86.9     | 79.6       | 96.4     |
| Unemployed                | 2,728       | 839      | 211        | 590      |
| Percent                   | 7.3         | 13.1     | 20.4       | 3.6      |
| Not in labor force        | 6,306       | 2,841    | 703        | 806      |
| Percent                   | 14.4        | 30.8     | 40.4       | 4.6      |

Source: Current Labor Force Survey Table 46 A

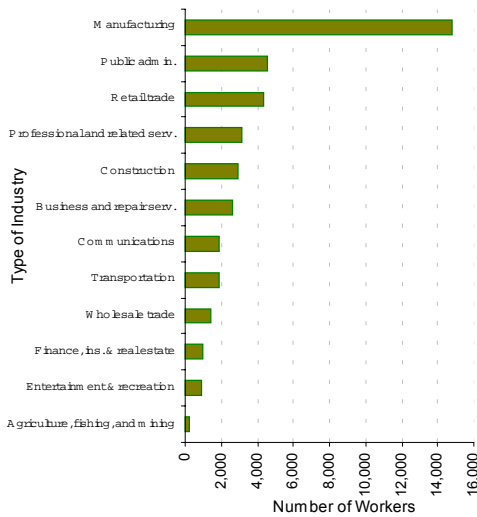
**Table 4.10 Labor Force Participation by Selected Chamorro and Carolinian Ethnic Group: 1995**

| Labor Force Participation | All Persons | Chamorro |                  |                    | Carolinian |                  |                    |
|---------------------------|-------------|----------|------------------|--------------------|------------|------------------|--------------------|
|                           |             | Total    | Single Ethnicity | Multiple Ethnicity | Total      | Single Ethnicity | Multiple Ethnicity |
| Total 16 + yrs            | 43,846      | 9,231    | 8,235            | 996                | 1,739      | 1,521            | 218                |
| In the labor force        | 37,540      | 6,390    | 5,716            | 674                | 1,036      | 907              | 129                |
| Percent                   | 85.6        | 69.2     | 69.4             | 67.7               | 59.6       | 59.6             | 59.2               |
| Civilian labor force      | 37,540      | 6,390    | 5,716            | 674                | 1,036      | 907              | 129                |
| Employed                  | 34,812      | 5,551    | 5,004            | 547                | 825        | 715              | 110                |
| Work 35+ hrs              | 32,545      | 4,973    | 4,504            | 469                | 718        | 617              | 101                |
| Work part-time            | 1,102       | 344      | 291              | 53                 | 54         | 47               | 7                  |
| Percent                   | 3.3         | 6.5      | 6.1              | 10.2               | 7.0        | 7.1              | 6.5                |
| Unemployed                | 2,728       | 839      | 712              | 127                | 211        | 192              | 19                 |
| Percent                   | 7.3         | 13.1     | 12.5             | 18.8               | 20.4       | 21.2             | 14.7               |
| Not in labor force        | 6,306       | 2,841    | 2,519            | 322                | 703        | 614              | 89                 |

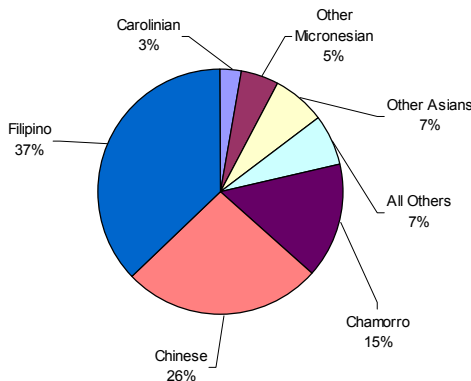
Source: 1995 Mid-Decade Census Table 113

\*Note: "Single and Multiple ethnicity" represents a census respondent's self-identification.

**Figure 4.2 Total CNMI Workers by Industry: 1999**



**Figure 4.3 Ethnicity Comparison of CNMI's Labor Force: 1999**



**Table 4.11 Labor Force Participation by Selected Chamorro and Carolinian Ethnic Group: 1990**

| Labor Force Participation | All Persons | Chamorro |                 |                   | Carolinian |                 |                   |
|---------------------------|-------------|----------|-----------------|-------------------|------------|-----------------|-------------------|
|                           |             | Total    | Single Response | Multiple Response | Total      | Single Response | Multiple Response |
| Total 16+ yrs             | 32,522      | 7,429    | 6,961           | 468               | 1,723      | 1,473           | 250               |
| In the labor force        | 26,589      | 4,593    | 4,316           | 277               | 954        | 805             | 149               |
| Percent                   | 81.8        | 61.8     | 62.0            | 59.2              | 55.4       | 54.7            | 59.6              |
| Civilian labor force      | 26,581      | 4,588    | 4,312           | 276               | 954        | 805             | 149               |
| Employed                  | 25,965      | 4,317    | 4,060           | 257               | 852        | 717             | 135               |
| Work 35+ hrs              | 24,573      | 3,909    | 3,681           | 228               | 757        | 630             | 127               |
| Work part-time            | 975         | 318      | 296             | 22                | 78         | 70              | 8                 |
| Percent                   | 3.8         | 7.5      | 7.4             | 8.8               | 9.3        | 10.0            | 5.9               |
| Unemployed                | 616         | 271      | 252             | 19                | 101        | 88              | 13                |
| Percent                   | 2.3         | 5.9      | 5.8             | 6.9               | 10.6       | 10.9            | 8.7               |
| Not in labor force        | 5,933       | 2,836    | 2,645           | 191               | 769        | 668             | 101               |

Source: 1990 CPH-6-CNMI I Table 73

**Table 4.12 CNMI Labor Force Participation by Ethnicity: 1980 to 1999**

| Ethnicity             | In Labor Force |        |        |        |
|-----------------------|----------------|--------|--------|--------|
|                       | Year           |        |        |        |
|                       | 1980           | 1990   | 1995   | 1999   |
| All persons 16+ years | 6,089          | 26,581 | 37,540 | 48,693 |
| Total single ethnic   | 5,997          | 26,092 | 36,307 | 47,218 |
| Chamorro              | 2,885          | 4,312  | 5,716  | 7,453  |
| Carolinian            | 602            | 805    | 907    | 1,302  |
| Palauan               | 278            | 795    | 1,041  | 1,101  |
| Other Micronesia      | 226            | 841    | 1,050  | 1,337  |
| Filipino              | 1,319          | 12,475 | 16,548 | 18,124 |
| Chinese               | 18             | 2,760  | 6,421  | 12,647 |
| Other Asian           | 195            | 3,253  | 3,131  | 3,365  |
| Other single          | 474            | 851    | 1,493  | 1,889  |
| Multiple ethnic       | 92             | 489    | 1,233  | 1,475  |
| All females 16+ years | 2,094          | 11,491 | 18,033 | 25,967 |
| Total single ethnic   | 2,057          | 11,289 | 17,484 | 25,400 |
| Chamorro              | 1,124          | 1,789  | 2,449  | 3,264  |
| Carolinian            | 220            | 342    | 365    | 558    |
| Palauan               | 143            | 391    | 490    | 698    |
| Other Micronesia      | 77             | 375    | 474    | 539    |
| Filipino              | 314            | 4,198  | 6,928  | 8,073  |
| Chinese               | 6              | 2,031  | 5,061  | 10,262 |
| Other Asian           | 41             | 1,888  | 1,230  | 1,378  |
| Other single          | 132            | 275    | 487    | 628    |
| Multiple ethnic       | 37             | 202    | 549    | 567    |
| All males 16+ years   | 3,995          | 15,090 | 19,507 | 22,726 |
| Total single ethnic   | 3,940          | 14,803 | 18,823 | 21,818 |
| Chamorro              | 1,761          | 2,523  | 3,267  | 4,189  |
| Carolinian            | 382            | 463    | 542    | 744    |
| Palauan               | 135            | 404    | 551    | 403    |
| Other Micronesia      | 149            | 466    | 576    | 798    |
| Filipino              | 1,005          | 8,277  | 9,620  | 10,051 |
| Chinese               | 12             | 729    | 1,360  | 2,385  |
| Other Asian           | 154            | 1,365  | 1,901  | 1,987  |
| Other single          | 342            | 576    | 1,006  | 1,261  |
| Multiple ethnic       | 55             | 287    | 684    | 908    |

Source: Recent Trends in Population, Labor Force Survey, Table A12.0

**Table 4.13 Labor Force Participation by Citizenship Status: 1973 to 1999**

| Citizenship            | In Labor Force |       |        |        |        |
|------------------------|----------------|-------|--------|--------|--------|
|                        | Year           |       |        |        |        |
|                        | 1973           | 1980  | 1990   | 1995   | 1999   |
| All persons 16 + years | 4,787          | 6,089 | 26,581 | 37,540 | 48,693 |
| U.S. Citizen           | 3,472          | 3,787 | 6,685  | 10,020 | 12,641 |
| CNM Born               | 3,092          | 3,388 | 5,085  | 7,050  | 9,283  |
| Other U.S. citizen     | 380            | 399   | 1,600  | 2,970  | 3,357  |
| Non-Citizen            | 1,315          | 2,302 | 19,896 | 27,520 | 36,052 |
| Permanent residence    | 538            | 620   | 1,522  | 1,706  | 3,463  |
| Temporary residence    | 777            | 1,682 | 18,374 | 25,814 | 32,589 |
| All Female 16 + years  | 1,373          | 2,094 | 11,491 | 18,033 | 25,967 |
| U.S. Citizen           | 1,107          | 1,443 | 2,688  | 4,189  | 5,502  |
| CNM Born               | 1,004          | 1,309 | 2,100  | 3,003  | 4,093  |
| Other U.S. citizen     | 103            | 134   | 588    | 1,186  | 1,409  |
| Non-Citizen            | 266            | 651   | 8,803  | 13,844 | 20,465 |
| Permanent residence    | 155            | 260   | 713    | 774    | 1,980  |
| Temporary residence    | 111            | 391   | 8,090  | 13,070 | 18,485 |
| All Male 16 + years    | 3,414          | 3,995 | 15,090 | 19,507 | 22,726 |
| U.S. Citizen           | 2,365          | 2,344 | 3,997  | 5,831  | 7,139  |
| CNM Born               | 2,088          | 2,079 | 2,985  | 4,047  | 5,190  |
| Other U.S. citizen     | 277            | 265   | 1,012  | 1,784  | 1,949  |
| Non-Citizen            | 1,049          | 1,651 | 11,093 | 13,676 | 15,587 |
| Permanent residence    | 383            | 360   | 809    | 932    | 1,483  |
| Temporary residence    | 666            | 1,291 | 10,284 | 12,744 | 14,104 |

Source: Recent Trends in Population, Labor Force Survey, Table A10.0

**Table 4.14 CNMI Employment by Class of Workers: 1990 and 1999**

| Employed Persons        | Year  |        |        |        |
|-------------------------|-------|--------|--------|--------|
|                         | 1980  | 1990   | 1995   | 1999   |
| Total 16 yrs & over     | 5,941 | 25,965 | 34,812 | 43,651 |
| Private wage and salary | 3,308 | 22,027 | 28,841 | 37,531 |
| Government              | 2,500 | 3,510  | 5,018  | 4,887  |
| Self-employed           | 124   | 382    | 866    | 1,203  |
| Unpaid family worker    | 9     | 46     | 87     | 30     |

Source: Recent Trends Table B.22.0

**Male-Female Employment Pattern**

In both 1995 and 1999, males tended to work in construction, communication and transportation, as well as public administration and wholesale industries.

Females tended to work in manufacturing, personal entertainment & recreation industries.

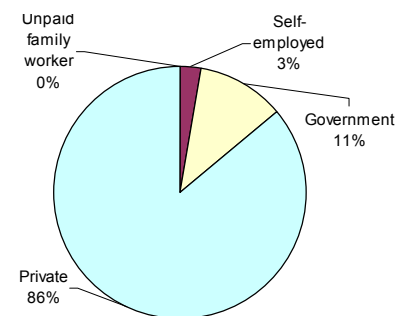
The most remarkable change in CNMI employment, however, is that women comprised 54% of the labor force in 1999.

**Labor Force Participation and Citizenship**

CNMI's labor force composition has changed dramatically over the past two decades. In 1973, approximately 72% of the labor force was comprised of US citizens, compared to 26% in 1999.

Migration accelerated between 1980 and 1990, shifting the balance of labor force participants from citizen to noncitizen. This shift was more pronounced among working women, 21% of whom were US citizens in 1999, compared to 31% of working men.

**Figure 4.4 Employment by Class of Worker in the CNMI: 1999**



### Employment by Industry

Data presented in table 4.15 refer to actively employed adults as opposed to all labor force participants. The percentage of workers employed in construction rose and fell over the period of rapid economic expansion, increasing from 17% in 1980 to 22% in 1990 and subsequently declining to 6% in 1999. By contrast, the percentage of labor force participants working in manufacturing increased from just 2% in 1980 to 32% in 1999. This remarkable increase is attributed to the growth of CNMI's apparel industry.

The percentage of workers involved in services has remained fairly constant over time, as 31% of workers in 1980 and 32% in 1999 worked in CNMI's service sector.

Gender differences in employment by industry are discussed adjacent to table 4.19.

**Table 4.15 CNMI Total Employed Persons by Industry: 1980 to 1999**

| Industry                               | Year  |        |        |        |
|--|-------|--------|--------|--------|
|  | 1980  | 1990   | 1995   | 1999   |
| Employed persons 16 years and over     | 5,941 | 25,965 | 34,812 | 46,590 |
| Agriculture                            | 103   | 551    | 371    | 199    |
| Forestry and fisheries                 | 19    | 70     | 48     | 23     |
| Mining                                 | 4     | 79     | 138    | 155    |
| Construction                           | 1,000 | 5,767  | 3,489  | 2,953  |
| Manufacturing                          | 110   | 5,688  | 7,770  | 14,778 |
| Nondurable goods                       | 79    | 5,514  | 7,630  | 14,498 |
| Durable goods                          | 31    | 174    | 140    | 280    |
| Transportation, communic, & other util | 517   | 1,635  | 2,540  | 1,859  |
| Wholesale trade                        | 101   | 365    | 518    | 1,445  |
| Retail trade                           | 818   | 3,090  | 5,462  | 4,330  |
| Eating places                          | 231   | 1,123  | 2,142  | *      |
| Finance, insurance, and real estate    | 163   | 518    | 723    | 972    |
| Services                               | 1,836 | 6,793  | 11,201 | 14,786 |
| Business and repair services           | 181   | 837    | 1,560  | 2,623  |
| Personal services                      | 706   | 3,353  | 5,103  | 8,136  |
| Hotels and Motels                      | 547   | 1,807  | 2,618  | 5,391  |
| Entertainment and recreation services  | 54    | 544    | 860    | 882    |
| Professional and related services      | 895   | 2,059  | 3,360  | 3,146  |
| Public administration                  | 1,264 | 1,409  | 2,552  | 4,572  |
| Employed females 16 years and over     | 2,039 | 11,183 | 16,475 | 25,002 |
| Agriculture                            | 6     | 15     | 27     | 17     |
| Forestry and fisheries                 | 1     | 4      | 5      | -      |
| Mining                                 | -     | 4      | 10     | 23     |
| Construction                           | 28    | 211    | 133    | 170    |
| Manufacturing                          | 28    | 4,347  | 5,973  | 11,062 |
| Nondurable goods                       | 25    | 4,308  | 5,956  | 11,007 |
| Durable goods                          | 3     | 39     | 17     | 55     |
| Transportation, communic, & other util | 99    | 375    | 667    | 480    |
| Wholesale trade                        | 23    | 85     | 150    | 296    |
| Retail trade                           | 465   | 1,750  | 3,027  | 2,176  |
| Eating places                          | 176   | 777    | 1,354  | *      |
| Finance, insurance, and real estate    | 96    | 245    | 384    | 465    |
| Services                               | 935   | 3,704  | 5,345  | 8,115  |
| Business and repair services           | 28    | 189    | 438    | 1,094  |
| Personal services                      | 412   | 2,109  | 2,777  | 5,017  |
| Hotels and Motels                      | 270   | 699    | 986    | 2,846  |
| Entertainment and recreation services  | 12    | 249    | 230    | 324    |
| Professional and related services      | 483   | 1,157  | 1,748  | 1,681  |
| Public administration                  | 357   | 443    | 754    | 1,917  |
| Employed males 16 years and over       | 3,902 | 14,782 | 18,337 | 21,588 |
| Agriculture                            | 97    | 536    | 344    | 182    |
| Forestry and fisheries                 | 18    | 66     | 43     | 23     |
| Mining                                 | 4     | 75     | 128    | 132    |
| Construction                           | 972   | 5,556  | 3,356  | 2,783  |
| Manufacturing                          | 82    | 1,341  | 1,797  | 3,716  |
| Nondurable goods                       | 54    | 1,206  | 1,674  | 3,491  |
| Durable goods                          | 28    | 135    | 123    | 225    |
| Transportation, communic, & other util | 418   | 1,260  | 1,873  | 1,379  |
| Wholesale trade                        | 78    | 280    | 368    | 1,149  |
| Retail trade                           | 353   | 1,340  | 2,435  | 2,154  |
| Eating places                          | 55    | 346    | 788    | *      |
| Finance, insurance, and real estate    | 67    | 273    | 339    | 507    |
| Services                               | 901   | 3,089  | 5,856  | 6,671  |
| Business and repair services           | 153   | 648    | 1,122  | 1,529  |
| Personal services                      | 294   | 1,244  | 2,326  | 3,119  |
| Hotels and Motels                      | 277   | 1,108  | 1,632  | 2,545  |
| Entertainment and recreation services  | 42    | 295    | 630    | 558    |
| Professional and related services      | 412   | 902    | 1,612  | 1,465  |
| Public administration                  | 907   | 966    | 1,798  | 2,655  |

Source: Recent Trends in Population, Labor Force Survey, Table A1.3.J

\*Note: Under NAIC, eating places are classified under Hotel and Accommodation

**Table 4.16 Employed US Citizens by Industry: 1980 to 1999**

| Citizenship and Industry                    | Year  |       |       |        |
|---|-------|-------|-------|--------|
|   | 1980  | 1990  | 1995  | 1999   |
| <b>US Citizens</b>                          |       |       |       |        |
| Employed persons 16 years and over          | 3,673 | 6,302 | 8,745 | 11,328 |
| Agriculture                                 | 48    | 42    | 23    | 33     |
| Forestry and fisheries                      | 18    | 16    | 14    | 23     |
| Mining                                      | 2     | 8     | 15    | 55     |
| Construction                                | 244   | 347   | 143   | 123    |
| Manufacturing                               | 41    | 251   | 338   | 727    |
| Nondurable goods                            | 31    | 216   | 318   | 704    |
| Durable goods                               | 10    | 35    | 20    | 23     |
| Transportation, communic, & other utilities | 387   | 864   | 1,168 | 799    |
| Wholesale trade                             | 79    | 139   | 169   | 256    |
| Retail trade                                | 492   | 873   | 1,100 | 936    |
| Eating places                               | 102   | 113   | 191   | *      |
| Finance, insurance, and real estate         | 139   | 335   | 325   | 476    |
| Services                                    | 1,184 | 2,127 | 3,111 | 3,798  |
| Business and repair services                | 95    | 153   | 163   | 538    |
| Personal services                           | 355   | 374   | 473   | 1,058  |
| Hotels and Motels                           | 329   | 337   | 396   | 923    |
| Entertainment and recreation services       | 33    | 140   | 223   | 204    |
| Professional and related services           | 701   | 1,460 | 2,032 | 1,998  |
| Public administration                       | 1,033 | 1,300 | 2,339 | 3,928  |

Source: Recent Trends in Population, Labor Force Survey, Table A14.0

\*Note: Under NAC, Eating places are classified under Hotels and Accommodation

**Table 4.17 Employed Non-US Citizens by Industry: 1980 to 1999**

| Citizenship and Industry                    | Year  |        |        |        |
|---|-------|--------|--------|--------|
|   | 1980  | 1990   | 1995   | 1999   |
| <b>Non-US Citizens</b>                      |       |        |        |        |
| Employed persons 16 years and over          | 2,268 | 19,663 | 26,067 | 35,262 |
| Agriculture                                 | 55    | 509    | 348    | 166    |
| Forestry and fisheries                      | 1     | 54     | 34     | -      |
| Mining                                      | 2     | 71     | 123    | 101    |
| Construction                                | 756   | 5,420  | 3,346  | 2,830  |
| Manufacturing                               | 69    | 5,437  | 7,432  | 14,051 |
| Nondurable goods                            | 48    | 5,298  | 7,312  | 13,795 |
| Durable goods                               | 21    | 139    | 120    | 257    |
| Transportation, communic, & other utilities | 130   | 771    | 1,372  | 1,060  |
| Wholesale trade                             | 22    | 226    | 349    | 1,189  |
| Retail trade                                | 326   | 2,217  | 4,362  | 3,393  |
| Eating places                               | 129   | 1,010  | 1,951  | *      |
| Finance, insurance, and real estate         | 24    | 183    | 398    | 496    |
| Services                                    | 652   | 4,666  | 8,090  | 10,989 |
| Business and repair services                | 86    | 684    | 1,397  | 2,085  |
| Personal services                           | 351   | 2,979  | 4,630  | 7,078  |
| Hotels and Motels                           | 218   | 1,470  | 2,222  | 4,469  |
| Entertainment and recreation services       | 21    | 404    | 637    | 679    |
| Professional and related services           | 194   | 599    | 1,328  | 1,147  |
| Public administration                       | 231   | 109    | 213    | 644    |

Source: Recent Trends in Population, Labor Force Survey, Table A14.0

\*Note: Under NAC, Eating places are classified under Hotels and Accommodation

**Employed US Citizens by Industry**

The percentage of US citizen labor force participants employed in services has remained relatively stable over time. In 1980, about 32% of these individuals worked in services compared to 34% in 1999. The proportion of US citizen workers employed in public administration increased from 28% in 1980 to 35% in 1999 according to data collected by the CNMI Department of Commerce.

**Employed Non-Citizens by Industry**

The proportion of non-US citizen labor force participants employed in manufacturing climbed from 3% in 1980 to 29% in 1995 before increasing even more significantly to 40% in 1999. Specifically, 39% of non-US citizen workers are employed in the manufacturing of nondurable goods. The proportion of working noncitizens in the service industry remained relatively constant at 32% in 1999, up from 29% two decades earlier. The percentage of working noncitizens employed in public administration declined from 10% in 1980 to about 2% in 1999.

### Men At Work

In 1999, approximately 31% of employed adult male in the service industry, 17% worked in manufacturing, 13% were in construction, and 12% worked in public administration. The remaining 27% of employed men worked in other industries.

The proportion of working males in construction and public administration decreased substantially from 1980 to 1999 (from 25% to 13% in construction and from 23% to 12% in public administration). The percentage of working males in transportation, communication and other utilities decreased slightly from 11% in 1980 to 7% in 1999 and the percentage employed in retail trades fluctuated between 9% and 10% over time.

**Table 4.18 Total Male Workers by Industry: 1980 to 1999**

| Industry   | Year  |        |        |        |
|--|-------|--------|--------|--------|
|  | 1980  | 1990   | 1995   | 1999   |
| Employed males 16 years and over                 | 3,902 | 14,782 | 18,337 | 21,588 |
| Agriculture                                      | 97    | 536    | 344    | 182    |
| Forestry and fisheries                           | 18    | 66     | 43     | 23     |
| Mining   | 4     | 75     | 128    | 132    |
| Construction                                     | 972   | 5,556  | 3,356  | 2,783  |
| Manufacturing                                    | 82    | 1,341  | 1,797  | 3,716  |
| Nondurable goods                                 | 54    | 1,206  | 1,674  | 3,491  |
| Durable goods                                    | 28    | 135    | 123    | 225    |
| Transportation, communication, & other utilities | 418   | 1,260  | 1,873  | 1,379  |
| Wholesale trade                                  | 78    | 280    | 368    | 1,149  |
| Retail trade                                     | 353   | 1,340  | 2,435  | 2,154  |
| Eating places                                    | 55    | 346    | 788    | *      |
| Finance, insurance, and real estate              | 67    | 273    | 339    | 507    |
| Services   | 901   | 3,089  | 5,856  | 6,671  |
| Business and repair services                     | 153   | 648    | 1,122  | 1,529  |
| Personal services                                | 294   | 1,244  | 2,326  | 3,119  |
| Hotels and Motels                                | 277   | 1,108  | 1,632  | 2,545  |
| Entertainment and recreation services            | 42    | 295    | 630    | 558    |
| Professional and related services                | 412   | 902    | 1,612  | 1,465  |
| Public administration                            | 907   | 966    | 1,798  | 2,655  |

Source: Recent Trends in Population, Labor Force Survey, Table A13.0

\*Note: Under NAIC eating places are classified under Hotel and Accommodation.

### Women At Work

Women outnumbered men in CNMI's labor force in 1999. There were 25,002 adult females working that year compared to 21,588 males. In 1999, about 44% of employed adult females worked in manufacturing, 32% worked in services, 9% were in retail trades, and 8% worked in public administration. The remaining 7% worked in other industries.

The proportion of working women in manufacturing rose from 1% to 44% over two decades, while the proportion employed in services decreased (from 46% in 1980 to 32% in 1999). The percentage of women employed in professional and related services decreased from 24% to 7% over time, as did the percentage of females in public administration (18% in 1980 vs 8% in 1999).

**Table 4.19 Total Female Workers by Industry: 1980 to 1999**

| Industry   | Year  |        |        |        |
|--|-------|--------|--------|--------|
|  | 1980  | 1995   | 1990   | 1999   |
| Employed females 16 years and over               | 2,039 | 11,183 | 16,475 | 25,002 |
| Agriculture                                      | 6     | 15     | 27     | 17     |
| Forestry and fisheries                           | 1     | 4      | 5      | —      |
| Mining   | —     | 4      | 10     | 23     |
| Construction                                     | 28    | 211    | 133    | 170    |
| Manufacturing                                    | 28    | 4,347  | 5,973  | 11,062 |
| Nondurable goods                                 | 25    | 4,308  | 5,956  | 11,007 |
| Durable goods                                    | 3     | 39     | 17     | 55     |
| Transportation, communication, & other utilities | 99    | 375    | 667    | 480    |
| Wholesale trade                                  | 23    | 85     | 150    | 296    |
| Retail trade                                     | 465   | 1,750  | 3,027  | 2,176  |
| Eating places                                    | 176   | 777    | 1,354  | *      |
| Finance, insurance, and real estate              | 96    | 245    | 384    | 465    |
| Services   | 935   | 3,704  | 5,345  | 8,115  |
| Business and repair services                     | 28    | 189    | 438    | 1,094  |
| Personal services                                | 412   | 2,109  | 2,777  | 5,017  |
| Hotels and Motels                                | 270   | 699    | 986    | 2,846  |
| Entertainment and recreation services            | 12    | 249    | 230    | 324    |
| Professional and related services                | 483   | 1,157  | 1,748  | 1,681  |
| Public administration                            | 357   | 443    | 754    | 1,917  |

Source: Recent Trends in Population, Labor Force Survey, Table A13.0

\*Note: Under NAIC eating places are classified under Hotel and Accommodation.

**Table 4.20 Industry Employment by Island: 1995**

| Industry                                       | Total  | Island           |       |        |
|--|--------|------------------|-------|--------|
|  |        | Saipan & N. Isl. | Rota  | Tinian |
| Employed 16 yrs and over                       | 34,812 | 31,561           | 1,869 | 1,382  |
| Agriculture, fishing, mining                   | 557    | 422              | 48    | 87     |
| Construction                                   | 3,489  | 3,039            | 307   | 143    |
| Manufacturing                                  | 7,770  | 7,745            | 16    | 9      |
| Nondurable goods                               | 7,636  | 7,622            | 9     | 5      |
| Durable goods                                  | 134    | 123              | 7     | 4      |
| Transportation                                 | 1,729  | 1,586            | 63    | 80     |
| Communications                                 | 356    | 341              | 6     | 9      |
| Utilities and Sanitation Services              | 455    | 395              | 29    | 31     |
| Wholesale trade                                | 518    | 503              | 6     | 9      |
| Retail trade                                   | 5,462  | 5,091            | 214   | 157    |
| Finance, insurance & real estate               | 723    | 696              | 16    | 11     |
| Business and repair                            | 2,042  | 1,889            | 80    | 73     |
| Personal entertainment and recreation services | 940    | 814              | 74    | 52     |
| Professional and related services              | 3,116  | 2,695            | 242   | 179    |
| Health   | 663    | 576              | 45    | 42     |
| Educational services                           | 1,541  | 1,301            | 142   | 98     |
| Other professional services                    | 761    | 678              | 47    | 36     |
| Public Administration                          | 2,552  | 1,832            | 319   | 401    |

Source: 1995 Mid-Decade Census Table 21

## Employment by Occupation

Trends on CNMI employment by occupation mirror those for industries since the variables occupation and industry are highly correlated. Over time, there was significant growth in manufacturing occupations and little change in the proportion of workers employed in services. In 1999, approximately 35% of all employed adults worked in manufacturing, 18% worked in managerial and professional positions, 16% worked in services and in technical, sales or administrative support, and the remaining 15% were employed in other occupations.

**Table 4.21 CNMI Total Employed Persons by Occupation: 1980 to 1999**

| Occupation                                   | Year  |        |        |        |
|--|-------|--------|--------|--------|
|  | 1980  | 1990   | 1995   | 1999   |
| Employed persons 16 years and over           | 5,941 | 25,965 | 34,812 | 46,590 |
| Managerial and professional specialty        | 1,381 | 4,636  | 6,933  | 8,481  |
| Executive, administrative, and manager       | 776   | 2,914  | 4,405  | 5,453  |
| Professional specialty                       | 605   | 1,722  | 2,528  | 3,028  |
| Technical, sales, and administrative support | 1,523 | 3,631  | 5,726  | 7,616  |
| Technologists and technicians                | 193   | 339    | 413    | 646    |
| Sales  | 388   | 1,535  | 2,579  | 3,529  |
| Administrative support, clerical             | 942   | 1,757  | 2,734  | 3,441  |
| Service                                      | 1,150 | 4,550  | 6,795  | 7,547  |
| Private household                            | 105   | 1,225  | 1,763  | 1,961  |
| Protective service                           | 182   | 496    | 1,176  | 1,259  |
| Service, except protective & household       | 863   | 2,829  | 3,856  | 4,328  |
| Farming, forestry, and fishing               | 122   | 727    | 1,078  | 864    |
| Precision production, craft and repair       | 1,175 | 6,067  | 4,855  | 5,083  |
| Mechanics and repairers                      | 301   | 753    | 1,794  | 2,527  |
| Construction trades                          | 699   | 4,588  | 2,813  | 2,163  |
| Precision production                         | 172   | 715    | 235    | 394    |
| Operators, fabricators, and laborers         | 584   | 6,354  | 9,425  | 16,481 |
| Machine operators, assemblers, inspectors    | 118   | 4,799  | 6,922  | 12,748 |
| Transportation and material moving           | 232   | 772    | 995    | 1,115  |
| Handlers, equipment cleaners, helpers        | 234   | 783    | 1,508  | 2,618  |
| Employed females 16 years and over           | 2,039 | 11,183 | 16,475 | 25,002 |
| Managerial and professional specialty        | 401   | 1,823  | 3,126  | 4,005  |
| Executive, administrative, and manager       | 158   | 1,042  | 1,998  | 2,633  |
| Professional specialty                       | 243   | 781    | 1,128  | 1,373  |
| Technical, sales, and administrative support | 909   | 2,119  | 3,273  | 4,262  |
| Technologists and technicians                | 52    | 66     | 132    | 163    |
| Sales  | 271   | 911    | 1,607  | 2,174  |
| Administrative support, clerical             | 586   | 1,142  | 1,534  | 1,925  |
| Service                                      | 631   | 2,783  | 3,907  | 4,527  |
| Private household                            | 105   | 1,206  | 1,694  | 1,828  |
| Protective service                           | 7     | 21     | 74     | 123    |
| Service, except protective & household       | 519   | 1,556  | 2,139  | 2,576  |
| Farming, forestry, and fishing               | 6     | 16     | 35     | 8      |
| Precision production, craft and repair       | 51    | 330    | 188    | 426    |
| Mechanics and repairers                      | 6     | 17     | 51     | 196    |
| Construction trades                          | 4     | 24     | 16     | 3      |
| Precision production                         | 41    | 288    | 112    | 227    |
| Operators, fabricators, and laborers         | 40    | 4,112  | 5,946  | 11,492 |
| Machine operators, assemblers, inspectors    | 23    | 3,948  | 5,502  | 10,462 |
| Transportation and material moving           | 2     | 32     | 56     | 127    |
| Handlers, equipment cleaners, helpers        | 15    | 132    | 388    | 902    |
| Employed males 16 years and over             | 3,902 | 14,782 | 18,337 | 21,588 |
| Managerial and professional specialty        | 980   | 2,813  | 3,807  | 4,476  |
| Executive, administrative, and manager       | 618   | 1,872  | 2,407  | 2,820  |
| Professional specialty                       | 362   | 941    | 1,400  | 1,655  |
| Technical, sales, and administrative support | 614   | 1,512  | 2,453  | 3,354  |
| Technologists and technicians                | 141   | 273    | 281    | 483    |
| Sales  | 117   | 624    | 972    | 1,355  |
| Administrative support, clerical             | 356   | 615    | 1,200  | 1,516  |
| Service                                      | 519   | 1,767  | 2,888  | 3,020  |
| Private household                            | -     | 19     | 69     | 133    |
| Protective service                           | 175   | 475    | 1,102  | 1,136  |
| Service, except protective & household       | 344   | 1,273  | 1,717  | 1,752  |
| Farming, forestry, and fishing               | 116   | 711    | 1,043  | 856    |
| Precision production, craft and repair       | 1,124 | 5,737  | 4,667  | 4,657  |
| Mechanics and repairers                      | 295   | 736    | 1,743  | 2,331  |
| Construction trades                          | 695   | 4,564  | 2,797  | 2,160  |
| Precision production                         | 131   | 427    | 123    | 167    |
| Operators, fabricators, and laborers         | 544   | 2,242  | 3,479  | 4,989  |
| Machine operators, assemblers, inspectors    | 95    | 851    | 1,420  | 2,286  |
| Transportation and material moving           | 230   | 740    | 939    | 988    |
| Handlers, equipment cleaners, helpers        | 219   | 651    | 1,120  | 1,716  |

Source: Recent Trends in Population, Labor Force Survey, Table A17.0



**Table 4.22 CNMI Total Employed Persons by Occupation and by Citizenship: 1980 to 1999**

| Citizenship and Occupation                             | Year  |        |        |        |
|--|-------|--------|--------|--------|
|  | 1980  | 1990   | 1995   | 1999   |
| <b>U.S. Citizens</b>                                   |       |        |        |        |
| Employed persons 16 years and over                     | 3,673 | 6,302  | 8,745  | 11,328 |
| Managerial and professional specialty                  | 953   | 2,268  | 3,446  | 4,421  |
| Executive, administrative, and manager                 | 531   | 1,450  | 2,043  | 2,453  |
| Professional specialty                                 | 422   | 818    | 1,403  | 1,968  |
| Technical, sales, and administrative support           | 1,177 | 2,051  | 2,542  | 3,010  |
| Technologists and technicians                          | 138   | 185    | 207    | 312    |
| Sales  | 296   | 722    | 856    | 966    |
| Administrative support, incl. clerical                 | 743   | 1,144  | 1,479  | 1,732  |
| Service  | 698   | 808    | 1,004  | 1,554  |
| Private household                                      | 5     | 7      | 48     | 95     |
| Protective service                                     | 153   | 277    | 519    | 702    |
| Service, except protective & household                 | 540   | 524    | 437    | 758    |
| Farming, forestry, and fishing                         | 86    | 90     | 111    | 126    |
| Precision production, craft and repair                 | 376   | 456    | 467    | 478    |
| Mechanics and repairers                                | 152   | 212    | 312    | 384    |
| Construction trades                                    | 137   | 146    | 125    | 48     |
| Precision production                                   | 85    | 95     | 30     | 47     |
| Operators, fabricators, and laborers                   | 377   | 629    | 1,175  | 1,565  |
| Machine operators, assemblers, inspectors, and testers | 48    | 110    | 410    | 410    |
| Transportation and material moving                     | 155   | 340    | 437    | 413    |
| Handlers, equipment cleaners, helpers, and laborers    | 174   | 179    | 328    | 742    |
| <b>Non U.S. Citizens</b>                               |       |        |        |        |
| Employed persons 16 years and over                     | 2,268 | 19,663 | 26,067 | 35,262 |
| Managerial and professional specialty                  | 428   | 2,368  | 3,487  | 4,059  |
| Executive, administrative, and manager                 | 245   | 1,464  | 2,362  | 3,000  |
| Professional specialty                                 | 183   | 904    | 1,125  | 1,060  |
| Technical, sales, and administrative support           | 346   | 1,580  | 3,184  | 4,607  |
| Technologists and technicians                          | 55    | 154    | 206    | 335    |
| Sales  | 92    | 813    | 1,723  | 2,563  |
| Administrative support, incl. clerical                 | 199   | 613    | 1,255  | 1,709  |
| Service  | 452   | 3,742  | 5,791  | 5,993  |
| Private household                                      | 100   | 1,218  | 1,715  | 1,865  |
| Protective service                                     | 29    | 219    | 657    | 557    |
| Service, except protective & household                 | 323   | 2,305  | 3,419  | 3,570  |
| Farming, forestry, and fishing                         | 36    | 637    | 967    | 738    |
| Precision production, craft and repair                 | 799   | 5,611  | 4,388  | 4,605  |
| Mechanics and repairers                                | 149   | 541    | 1,482  | 2,143  |
| Construction trades                                    | 562   | 4,442  | 2,688  | 2,115  |
| Precision production                                   | 87    | 620    | 205    | 347    |
| Operators, fabricators, and laborers                   | 207   | 5,725  | 8,250  | 14,916 |
| Machine operators, assemblers, inspectors, and testers | 70    | 4,689  | 6,512  | 12,337 |
| Transportation and material moving                     | 77    | 432    | 558    | 702    |
| Handlers, equipment cleaners, helpers, and laborers    | 60    | 604    | 1,180  | 1,877  |

Source: Recent Trends in Population, Labor Force Survey, Table A17.0

### Employment by Occupation and Citizenship

Over time, CNMI's labor force composition shifted to majority non-US citizen as apparel producers opened factories and hired predominantly non-US citizen workers. In 1999, US citizens comprised 24% of adults working in specified occupations, compared to 62% in 1980.

**Distribution of Selected Ethnic**

**Groups by Industry in 1999**

**Chamorros**

31.3% were in the professional and related services,  
 26.2% were in the public administration,  
 14.6% were in the retail trades industry,  
 11.2% were in the transportation, communication, & other utilities industry.

**Carolinians**

37.5% were in the public administration,  
 25.1% were in the services industry,  
 15.6% were in the transportation, communication, & other utilities industry,  
 9.3% were in the retail and trade industry.

**Filipino**

37.4% were in the services industry,  
 26.5% were in the retail and trade industry,  
 15.6% were in the construction industry,  
 7.5% were in the transportation, communication, & other utilities industry.

**Chinese**

91.3% were in the manufacturing industry  
 3.9% were in the retail and trade industry,  
 2.6% were in the services industry.

**Industry Employment by Ethnicity**

Employment data for 1999 show significant occupational segregation by ethnicity, as 91% of working Chinese are employed in manufacturing, three-quarters of Chamorros working in services are in the hotel/motel business, and 62% of Filipinos in the service industry provide personal services such as domestic work.

**Table 4.23 Industry Employment by Selected Ethnic Group: 1999**

| Industry                                     | Single Ethnic Group |            |          |         |             | Percent  |            |          |         |             |
|--|---------------------|------------|----------|---------|-------------|----------|------------|----------|---------|-------------|
|  | Chamorro            | Carolinian | Filipino | Chinese | Other Asian | Chamorro | Carolinian | Filipino | Chinese | Other Asian |
| Employed 16 yrs and over                     | 4,764               | 654        | 15,306   | 11,960  | 4,140       | 100      | 100        | 100      | 100     | 100         |
| Agriculture                                  | 20                  | ...        | 217      | 41      | 164         | 0.4      | ...        | 1.4      | 0.3     | 4.0         |
| Forestry and fisheries                       | 20                  | ...        | ...      | ...     | ...         | 0.4      | ...        | ...      | ...     | ...         |
| Mining                                       | ...                 | ...        | 20       | ...     | 20          | ...      | ...        | 0.1      | ...     | 0.5         |
| Construction                                 | 82                  | ...        | 2,388    | 116     | 175         | 1.7      | ...        | 15.6     | 1.0     | 4.2         |
| Manufacturing                                | 286                 | 20         | 986      | 10,921  | 1,126       | 6.0      | 3.1        | 6.4      | 91.3    | 27.2        |
| Non-durable goods                            | 286                 | 20         | 944      | 10,901  | 1,126       | 6.0      | 3.1        | 6.2      | 91.1    | 27.2        |
| Durable goods                                | ...                 | ...        | 41       | 20      | ...         | ...      | ...        | 4.2      | 0.2     | ...         |
| Transportation, communication, & other util. | 532                 | 102        | 1,142    | ...     | 502         | 11.2     | 15.6       | 7.5      | ...     | 12.1        |
| Wholesale trade                              | 82                  | 41         | 279      | 21      | 82          | 1.7      | 6.3        | 1.8      | 0.2     | 2.0         |
| Retail trade                                 | 695                 | 61         | 4,062    | 469     | 689         | 14.6     | 9.3        | 26.5     | 3.9     | 16.6        |
| Eating places                                | 225                 | 20         | 2,106    | 296     | 212         | 4.7      | 3.1        | 13.8     | 2.5     | 5.1         |
| Finance, insurance, and real estate          | 307                 | 20         | 338      | ...     | 123         | 6.4      | 3.1        | 2.2      | ...     | 3.0         |
| Services                                     | 1,493               | 164        | 5,728    | 310     | 1,170       | 31.3     | 25.1       | 37.4     | 2.6     | 28.3        |
| Business and repair services                 | 61                  | 41         | 764      | 20      | 262         | 4.1      | 25.0       | 13.3     | 6.5     | 22.4        |
| Personal services                            | 327                 | ...        | 3,522    | 175     | 601         | 21.9     | ...        | 61.5     | 56.5    | 51.4        |
| Hotel and motels                             | 245                 | ...        | 1,841    | 72      | 415         | 74.9     | ...        | 52.3     | 41.1    | 69.1        |
| Entertainment and recreation                 | 143                 | ...        | 447      | 24      | 102         | 9.6      | ...        | 7.8      | 7.7     | 8.7         |
| Professional and related services            | 961                 | 123        | 974      | 90      | 204         | 64.4     | 75.0       | 17.0     | 29.0    | 17.4        |
| Public administration                        | 1,247               | 245        | 147      | 82      | 89          | 26.2     | 37.5       | 1.0      | 0.7     | 2.1         |

Source: Current Labor Force Survey Table 47  
 Note: "... means not zero."

**Table 4.24 Industry Employment by Selected Ethnic Group: 1990**

| Industry                            | Number |          |            | Percent |          |            |
|-------------------------------------|--------|----------|------------|---------|----------|------------|
|                                     | Total  | Chamorro | Carolinian | Total   | Chamorro | Carolinian |
| Employed 16 yrs and over            | 5,941  | 4,060    | 717        | 100.0   | 100.0    | 100.0      |
| Agriculture, fishing, forestry      | 122    | 46       | 4          | 2.1     | 1.1      | 0.6        |
| Construction                        | 1,004  | 212      | 31         | 16.9    | 5.2      | 4.3        |
| Manufacturing                       | 110    | 132      | 45         | 1.9     | 3.3      | 6.3        |
| Communications, transportation      | 517    | 554      | 125        | 8.7     | 13.6     | 17.4       |
| Wholesale trade                     | 101    | 92       | 2          | 1.7     | 2.3      | 0.3        |
| Retail trade                        | 818    | 585      | 78         | 13.8    | 14.4     | 10.9       |
| Finance, insurance & real estate    | 163    | 233      | 21         | 2.7     | 5.7      | 2.9        |
| Business and repair services        | 181    | 80       | 14         | 3.0     | 2.0      | 2.0        |
| Personal entertainment & recreation | 760    | 265      | 71         | 12.8    | 6.5      | 9.9        |
| Professional and related services   | 895    | 852      | 207        | 15.1    | 21.0     | 28.9       |
| Public administration               | 1,264  | 1,009    | 119        | 21.3    | 24.9     | 16.6       |
| Subsistence                         | 6      | 0        | 0          | 0.1     | 0.0      | 0.0        |

Source: PC 80-1-C/D57A, Table 43

**Table 4.25 Industry Employment by Gender: 1995 and 1999**

| Industry                                    | 1999   |        |         | 1995   |        |         |
|---|--------|--------|---------|--------|--------|---------|
|   | Total  | Males  | Females | Total  | Males  | Females |
| Employed persons 16 years and over          | 46,590 | 21,588 | 25,002  | 34,812 | 18,337 | 16,475  |
| Agriculture                                 | 199    | 182    | 17      | 371    | 344    | 27      |
| Forestry and fisheries                      | 23     | 23     | 0       | 48     | 43     | 5       |
| Mining                                      | 155    | 132    | 23      | 138    | 128    | 10      |
| Construction                                | 2,953  | 2,783  | 170     | 3,489  | 3,356  | 133     |
| Manufacturing                               | 14,778 | 3,716  | 11,062  | 7,770  | 1,797  | 5,973   |
| Nondurable goods                            | 14,498 | 3,491  | 11,007  | 7,630  | 1,674  | 5,956   |
| Durable goods                               | 280    | 225    | 55      | 140    | 123    | 17      |
| Transportation, communic, & other utilities | 1,859  | 1,379  | 480     | 2,540  | 1,873  | 667     |
| Wholesale trade                             | 1,445  | 1,149  | 296     | 518    | 368    | 150     |
| Retail trade                                | 4,330  | 2,154  | 2,176   | 5,462  | 2,435  | 3,027   |
| Eating places                               | *      | *      | *       | 2,142  | 788    | 1,354   |
| Finance, insurance, and real estate         | 972    | 507    | 465     | 723    | 339    | 384     |
| Services                                    | 14,786 | 6,671  | 8,115   | 11,201 | 5,856  | 5,345   |
| Business and repair services                | 2,623  | 1,529  | 1,094   | 1,560  | 1,122  | 438     |
| Personal services                           | 8,136  | 3,119  | 5,017   | 5,103  | 2,326  | 2,777   |
| Hotels and Motels                           | 5,391  | 2,545  | 2,846   | 2,618  | 1,632  | 986     |
| Entertainment and recreation services       | 882    | 558    | 324     | 860    | 630    | 230     |
| Professional and related services           | 3,146  | 1,465  | 1,681   | 3,360  | 1,612  | 1,748   |
| Public administration                       | 4,572  | 2,655  | 1,917   | 2,552  | 1,798  | 754     |

Source: Recent Trends Second Edition, Table A13.0

**Industry Employment by Gender**

Women now comprise 54% of CNMI's labor force. Employment data reveal significant occupational segregation by gender in 1999, as 75% of all manufacturing workers were females and 94% of those in construction were male. That same year nearly three-quarters (74%) of workers in communications/transportation were male as were 80% of wholesale trades. Women dominated the personal service industry, which includes domestic service (62% were females and 58% of public administration workers were male).

Over time, more men have entered the retail trades, and higher percentage of women were employed in public administration in 1999 than five years earlier. Nevertheless, there has been little overall change in occupational gender segregation between 1995 and 1999. Data for 2000 were not available for this pressing.

**Table 4.26 Non-Resident Work Permits Issued by Nationality: 1989 to 1997**

| Nationality | Year   |        |        |        |
|-------------|--------|--------|--------|--------|
|             | 1997   | 1996   | 1995   | 1994   |
| Total       | 36,566 | 26,039 | 24,301 | 22,560 |
| Chinese     | 16,024 | 10,048 | 7,616  | 5,184  |
| Filipino    | 16,730 | 13,021 | 14,091 | 15,160 |
| Japanese    | 770    | 661    | 645    | 628    |
| Korean      | 884    | 553    | 502    | 450    |
| Thai        | 615    | 588    | 604    | 620    |
| Other       | 1,543  | 1,168  | 843    | 518    |

Source: LIDS, Department of Labor & Immigration

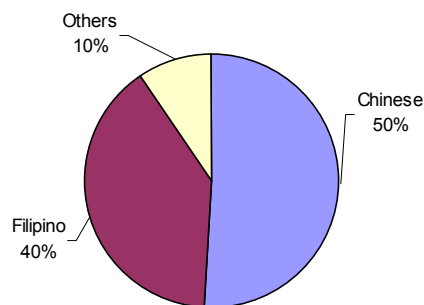
NOTE: 1995 data not collected

**Table 4.27 Number of Permits Issued to Non-Resident Workers by Nationality: FY 2000**

| Employment Sector  | Total  | Chinese | Filipino | Japanese | Korean | Thailand | Bangladesh | Others |
|--------------------|--------|---------|----------|----------|--------|----------|------------|--------|
| Total              | 39,832 | 20,433  | 15,416   | 742      | 775    | 829      | 698        | 939    |
| Banking            | 13     | 4       | 9        | -        | -      | -        | -          | -      |
| Construction       | 2,924  | 191     | 2,500    | 5        | 18     | 18       | 72         | 120    |
| Gambling           | 20,020 | 18,080  | 701      | 1        | 256    | 694      | 168        | 120    |
| Hotels             | 3,004  | 374     | 1,939    | 177      | 47     | 33       | 43         | 391    |
| Government         | 12     | -       | 4        | -        | -      | -        | 1          | 7      |
| Private Households | 1,784  | 58      | 1,693    | 1        | 3      | 9        | 6          | 14     |
| Services           | 8,648  | 1,201   | 6,388    | 248      | 337    | 49       | 202        | 223    |
| Others             | 3,427  | 525     | 2,182    | 310      | 114    | 26       | 206        | 64     |

Source: Labor Division, Department of Labor & Immigration

**Figure 4.5 Percentage Distribution of Total Permits Issued by Citizenship, 1999**



**Table 4.28 Number of Permits Issued to Non-Resident Workers: FY 1999**

| Employment Sector  | Total  | Chinese | Filipino | Japanese | Korean | Thailand | Bangladesh | Others |
|--------------------|--------|---------|----------|----------|--------|----------|------------|--------|
| Total              | 33,027 | 16,814  | 13,049   | 590      | 662    | 693      | 542        | 677    |
| Banking            | 13     | 1       | 12       | 0        | 0      | 0        | 0          | 0      |
| Construction       | 2,888  | 220     | 2,447    | 5        | 21     | 21       | 87         | 87     |
| Gambling           | 16,533 | 14,857  | 640      | 2        | 245    | 591      | 132        | 66     |
| Hotels             | 2,106  | 196     | 1,437    | 140      | 56     | 11       | 23         | 243    |
| Government         | 73     | 2       | 43       | 4        | 0      | 0        | 0          | 24     |
| Private Households | 2,163  | 132     | 1,870    | 1        | 3      | 22       | 96         | 39     |
| Services           | 7,022  | 937     | 5,218    | 227      | 278    | 36       | 158        | 168    |
| Others             | 2,229  | 469     | 1,382    | 211      | 59     | 12       | 46         | 50     |

Source: Labor Division, Department of Labor & Immigration

**Table 4.29 Non-Resident Worker Permits Issued by Nationality and Industry: FY 1997**

| Industry           | Total  | Chinese | Filipino | Japanese | Korean | Nepal-ese | Thailand | Bangladesh | Others |
|--------------------|--------|---------|----------|----------|--------|-----------|----------|------------|--------|
| Total              | 37,638 | 15,440  | 18,121   | 889      | 878    | 235       | 688      | 943        | 444    |
| Banking            | 32     | 0       | 31       | 0        | 0      | 0         | 0        | 0          | 1      |
| Construction       | 5,274  | 1,765   | 3,125    | 12       | 43     | 6         | 45       | 182        | 96     |
| Gambling           | 12,126 | 10,936  | 389      | 2        | 195    | 7         | 548      | 26         | 23     |
| Hotel              | 2,568  | 122     | 2,041    | 208      | 76     | 56        | 5        | 11         | 49     |
| Government         | 19     | 2       | 7        | 1        | 0      | 0         | 0        | 0          | 9      |
| Private Households | 2,733  | 98      | 2,335    | 2        | 0      | 52        | 22       | 216        | 8      |
| Restaurant         | 2,656  | 855     | 1,589    | 49       | 62     | 10        | 22       | 6          | 63     |
| Services           | 12,216 | 1,660   | 8,597    | 615      | 497    | 104       | 46       | 502        | 195    |
| Unclassified       | 14     | 2       | 7        | 0        | 5      | 0         | 0        | 0          | 0      |

Source: LID, Department of Labor and Immigration

**Table 4.30 Number of Non-Resident Work Permits by Gender, Sector, and Nationality, CNMI: Calendar Year 1997**

| Employment Sector and Gender | Nationality |          |         |        |          |          |        |
|------------------------------|-------------|----------|---------|--------|----------|----------|--------|
|                              | Total       | Filipino | Chinese | Korean | Japanese | Thailand | Others |
| Total                        | 36,566      | 16,730   | 16,024  | 884    | 770      | 615      | 1,543  |
| Male                         | 16,565      | 9,837    | 4,203   | 550    | 484      | 152      | 1,339  |
| Female                       | 20,001      | 6,893    | 11,821  | 334    | 286      | 463      | 204    |
| Banking                      | 52          | 50       | 0       | 0      | 0        | 0        | 2      |
| Male                         | 18          | 18       | 0       | 0      | 0        | 0        | 0      |
| Female                       | 34          | 32       | 0       | 0      | 0        | 0        | 2      |
| Construction                 | 4,780       | 2,973    | 1,482   | 44     | 7        | 42       | 232    |
| Male                         | 4,637       | 2,875    | 1,444   | 39     | 7        | 42       | 230    |
| Female                       | 143         | 98       | 38      | 5      | 0        | 0        | 2      |
| Garment                      | 12,889      | 348      | 11,842  | 193    | 2        | 466      | 38     |
| Male                         | 1,808       | 79       | 1,502   | 130    | 2        | 64       | 31     |
| Female                       | 11,081      | 269      | 10,340  | 63     | 0        | 402      | 7      |
| Hotels                       | 2,231       | 1,726    | 114     | 72     | 186      | 6        | 127    |
| Male                         | 1,493       | 1,147    | 41      | 43     | 143      | 4        | 115    |
| Female                       | 738         | 579      | 73      | 29     | 43       | 2        | 12     |
| Government                   | 23          | 9        | 2       | 0      | 1        | 0        | 11     |
| Male                         | 15          | 6        | 2       | 0      | 0        | 0        | 7      |
| Female                       | 8           | 3        | 0       | 0      | 1        | 0        | 4      |
| Private households           | 2,548       | 2,178    | 91      | 1      | 3        | 25       | 250    |
| Male                         | 723         | 453      | 41      | 0      | 2        | 10       | 217    |
| Female                       | 1,825       | 1,725    | 50      | 1      | 1        | 15       | 33     |
| Services                     | 13,883      | 9,366    | 2,481   | 526    | 560      | 75       | 875    |
| Male                         | 7,794       | 5,224    | 1,169   | 310    | 326      | 32       | 733    |
| Female                       | 6,089       | 4,142    | 1,312   | 216    | 234      | 43       | 142    |
| Not stated                   | 160         | 80       | 12      | 48     | 11       | 1        | 8      |
| Male                         | 77          | 35       | 4       | 28     | 4        | 0        | 6      |
| Female                       | 83          | 45       | 8       | 20     | 7        | 1        | 2      |

Source: Department of Labor & Immigration

**Table 4.31 Number of Non-Resident Work Permits Issued by Sector, CNMI: 1993 to 1999**

| Employment Sector  | Year   |        |        |        |        |        |        |
|--------------------|--------|--------|--------|--------|--------|--------|--------|
|                    | 1999   | 1998   | 1997   | 1996   | 1995   | 1994   | 1993   |
| Total              | 33,027 | 26,411 | 36,566 | 26,039 | 24,301 | 22,560 | 22,766 |
| Banking            | 13     | 31     | 52     | 53     | 58     | 62     | 59     |
| Construction       | 2,888  | 2,794  | 4,780  | 3,878  | 3,581  | 3,283  | 3,619  |
| Garment            | 16,533 | 11,177 | 12,889 | 8,498  | 7,212  | 5,926  | 6,808  |
| Hotels             | 2,106  | 2,328  | 2,231  | 1,946  | 2,156  | 2,366  | 2,339  |
| Government         | 73     | 32     | 23     | 30     | 137    | 244    | 299    |
| Private households | 2,163  | 1,690  | 2,548  | 1,869  | 2,267  | 2,665  | 2,559  |
| Services           | 7,022  | 6,773  | 13,883 | 9,763  | 8,889  | 8,014  | 7,083  |
| Others             | 2,229  | 1,586  | 160    | 2      | 1      | 0      | 0      |

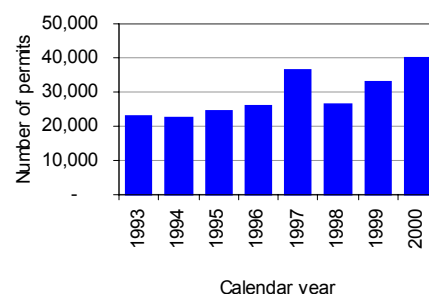
Source: LID, Department of Labor & Immigration

**Non-Resident Permits by Gender, Employment Sector and Nationality**

Overall, women accounted for 55% of all nonresident work permits in the CNMI in 1997, the most recent year for which three-way cross tabulated data were available. Approximately 46% of these permits were issued to Filipinos, 44% to Chinese, and the remaining 10% were issued to individuals from "other" ethnic groups.

Virtually all permits for employment in the construction industry went to males (97%), and 62% were issued to Filipinos as a group. About 86% of garment work permits went to females, and 92% of all permits were issued to Chinese as a group. The majority of private household permits went to Filipinos (85%). Approximately, 79% of Filipino private household permits went to females.

**Figure 4.6 Number of Permits Issued to Non-Resident Workers, 1993 to 2000**



Chapter 5  
HOUSEHOLD AND  
PERSONAL INCOME

---

## **Summary of Household and Personal Income**

Results from the 1995 Census showed a median household income of \$19,091 in the CNMI, which means that half of all households earned above and half earned below this figure. The median income was slightly higher (\$21,166) for the same year. The statistical median serves as a better measurement than average or mean income since it is less sensitive to extreme cases. Thus, CNMI mean incomes reported for households (\$30,296) and families (\$32,921) were higher, since a minority of affluent cases positively skewed the mean. All census income data are based on income generated in 1994.

Data also indicated that median household and family income were higher in Tinian than in Rota or Saipan. Households whose primary source of income was self-employment had the highest mean incomes, followed by households with wage and salary income as well as those earning income from remittances.

The majority of CNMI households reported earning income from wages (83.9%) and a minority reported earning income from a variety of sources, including: interest, dividend and rental income, public assistance, and retirement and social security benefits.

Median individual income earned in 1994 was \$6,450 and over three quarters (77.4%) of labor force participants earned less than \$10,000 for the year. The gender income gap was notably high as the median income for men (16,215) was more than twice the median income for women (\$5,739).

Census data on income also revealed sharp differences among labor force participants by nationality. Citizens born in the US mainland or Japan tended to have the highest income, and Chinese citizens tended to earn the lowest incomes. The median income for US-born persons was \$29,587 compared to \$3,030 for China-born persons. In fact, over half (57.7%) of all US-born citizens earned \$25,000 or more in 1994, whereas less than one percent (.8%) of Chinese persons earned income at this level.

The number of CNMI labor force participants increased steadily between 1980 and 1995. Average hourly wages increased in the public sector. For example, the mean hourly rate for workers in manufacturing decreased from \$2.69 to \$2.38 whereas the rate for public administration workers increased from a mean of \$4.03 per hour to \$11.81 per hour over time.

Since nationality and ethnicity are highly correlated, it is not surprising that "other ethnic" persons (e.g. whites) earned the highest mean hourly wages (\$17.50) in 1995 compared to Chinese workers who earned significantly lower mean wages (\$1.72). Wages tended to be highest among professionals and technologists and lowest among domestic workers, construction workers and manufactures. Data also indicate that the gap in mean wages between CNMI-born and Asian-born individuals has widened noticeable since 1980. This wage disparity exists within similar occupations.

Finally, this chapter presents data on participation in the CNMI Nutritional Assistance Program, finding an overall increase in participation over time.



### Household and Family Income

The 1995 Census results showed that household median income was \$19,091 and household mean income was \$30,296 in the CNMI in 1994. Family median income was \$21,166 and the family mean income was \$32,921 in 1994. Tinian had the highest mean and median incomes, followed by Rota and Saipan, respectively.

### Family income level by Island

Like household income, Tinian had the highest family median and mean incomes, followed by Rota and Saipan.

**Table 5.1 Household Income Level by Island: 1994**

| Household Income     | Number of households |        |        |        |        | Percentage |        |       |        |       |
|----------------------|----------------------|--------|--------|--------|--------|------------|--------|-------|--------|-------|
|                      | Total                | Island |        |        |        | Total      | Saipan | Rota  | Tinian | N. E. |
|                      |                      | Saipan | Rota   | Tinian | N. E.  |            |        |       |        |       |
| Total                | 12,057               | 10,844 | 690    | 522    | 1      | 100.0      | 100.0  | 100.0 | 100.0  | 100.0 |
| Less than \$2,500    | 1,501                | 1,365  | 92     | 44     | 0      | 12.4       | 12.6   | 13.3  | 8.4    | 0.0   |
| \$2,500 to \$4,999   | 569                  | 524    | 28     | 17     | 0      | 4.7        | 4.8    | 4.1   | 3.3    | 0.0   |
| \$5,000 to \$9,999   | 1,609                | 1,494  | 71     | 44     | 0      | 13.3       | 13.8   | 10.3  | 8.4    | 0.0   |
| \$10,000 to \$14,999 | 1,441                | 1,331  | 67     | 42     | 1      | 12.0       | 12.3   | 9.7   | 8.0    | 100.0 |
| \$15,000 to \$19,999 | 1,090                | 966    | 64     | 60     | 0      | 9.0        | 8.9    | 9.3   | 11.5   | 0.0   |
| \$20,000 to \$24,999 | 1,075                | 953    | 68     | 54     | 0      | 8.9        | 8.8    | 9.9   | 10.3   | 0.0   |
| \$25,000 to \$34,999 | 1,440                | 1,265  | 96     | 79     | 0      | 11.9       | 11.7   | 13.9  | 15.1   | 0.0   |
| \$35,000 to \$49,999 | 1,407                | 1,229  | 98     | 80     | 0      | 11.7       | 11.3   | 14.2  | 15.3   | 0.0   |
| \$50,000 to \$74,999 | 1,055                | 928    | 71     | 56     | 0      | 8.8        | 8.6    | 10.3  | 10.7   | 0.0   |
| \$75,000 or more     | 870                  | 789    | 35     | 46     | 0      | 7.2        | 7.3    | 5.1   | 8.8    | 0.0   |
| Median (dollars)     | 19,091               | 18,537 | 21,691 | 25,000 | 11,250 | ...        | ...    | ...   | ...    | ...   |
| Mean (dollars)       | 30,296               | 30,023 | 30,525 | 35,662 | 10,880 | ...        | ...    | ...   | ...    | ...   |

Source: 1995 Mid-Decade Census Table 23

**Table 5.2 Family Income Level by Island: 1994**

| Family Income Class    | Number of families |        |        |        |        |
|------------------------|--------------------|--------|--------|--------|--------|
|                        | Total              | Island |        |        |        |
|                        |                    | Saipan | Rota   | Tinian | N. E.  |
| Total                  | 8,252              | 7,384  | 461    | 406    | 1      |
| Less than \$2,500      | 871                | 797    | 36     | 38     | 0      |
| \$2,500 to \$4,999     | 276                | 253    | 14     | 9      | 0      |
| \$5,000 to \$9,999     | 1,020              | 945    | 41     | 34     | 0      |
| \$10,000 to \$14,999   | 995                | 915    | 50     | 29     | 1      |
| \$15,000 to \$24,999   | 1,533              | 1,343  | 104    | 86     | 0      |
| \$25,000 to \$34,999   | 979                | 862    | 62     | 55     | 0      |
| \$35,000 to \$49,999   | 1,049              | 914    | 69     | 66     | 0      |
| \$50,000 to \$74,999   | 834                | 725    | 58     | 51     | 0      |
| \$75,000 or more       | 695                | 630    | 27     | 38     | 0      |
| Median (dollars)       | 21,166             | 20,651 | 23,606 | 26,458 | 11,250 |
| Mean (dollars)         | 32,921             | 32,517 | 34,940 | 38,032 | 10,880 |
| Percentage of families |                    |        |        |        |        |
| Total                  | 100.0              | 100.0  | 100.0  | 100.0  | 100.0  |
| Less than \$2,500      | 10.6               | 10.8   | 7.8    | 9.4    | 0.0    |
| \$2,500 to \$4,999     | 3.3                | 3.4    | 3.0    | 2.2    | 0.0    |
| \$5,000 to \$9,999     | 12.4               | 12.8   | 8.9    | 8.4    | 0.0    |
| \$10,000 to \$14,999   | 12.1               | 12.4   | 10.8   | 7.1    | 100.0  |
| \$15,000 to \$24,999   | 18.6               | 18.2   | 22.6   | 21.2   | 0.0    |
| \$25,000 to \$34,999   | 11.9               | 11.7   | 13.4   | 13.5   | 0.0    |
| \$35,000 to \$49,999   | 12.7               | 12.4   | 15.0   | 16.3   | 0.0    |
| \$50,000 to \$74,999   | 10.1               | 9.8    | 12.6   | 12.6   | 0.0    |
| \$75,000 or more       | 8.4                | 8.5    | 5.9    | 9.4    | 0.0    |

Source: 1995 Mid-Decade Census Table 23

**Table 5.3 Households by Income Type and Island: 1994**

| Income Type                                   | Total  | Island |      |        |        |  |
|---|--------|--------|------|--------|--------|--|
|   |        | Saipan | Rota | Tinian | N. Is. |  |
| Total Households                              | 12,057 | 10,844 | 690  | 522    | 1      |  |
| With Earnings                                 | 10,342 | 9,303  | 579  | 459    | 1      |  |
| With Wage or Salary Income                    | 10,116 | 9,087  | 574  | 454    | 1      |  |
| With Self-Employment Income                   | 863    | 761    | 58   | 44     | 0      |  |
| With interest, dividend, or net rental income | 865    | 775    | 51   | 39     | 0      |  |
| With Social Security Income                   | 718    | 625    | 57   | 36     | 0      |  |
| With Public Assistance Income                 | 643    | 545    | 53   | 44     | 1      |  |
| With Retirement Income                        | 763    | 617    | 87   | 59     | 0      |  |
| With Remittance Income                        | 281    | 274    | 6    | 1      | 0      |  |
| With Other Income                             | 135    | 122    | 7    | 6      | 0      |  |

Source: 1995 Mid-Decade Census Table 23

**Table 5.4 Mean Household Income by Island: 1994 (in US \$ dollars)**

| Income Type                  | Mean Income (\$) | Island |        |        |       | N. Is. |
|------------------------------|------------------|--------|--------|--------|-------|--------|
|                              |                  | Saipan | Rota   | Tinian | Is.   |        |
| Earnings                     | 30,699           | 30,488 | 30,800 | 34,889 | 7,280 |        |
| Wage and salary              | 27,139           | 26,911 | 27,363 | 31,389 | 7,280 |        |
| Self-employment              | 50,477           | 51,353 | 36,670 | 54,941 | ...   |        |
| Interest, dividend, net rent | 19,245           | 18,513 | 28,310 | 22,744 | ...   |        |
| Social Security              | 8,804            | 8,915  | 7,982  | 7,582  | ...   |        |
| Public Assistance            | 5,440            | 4,685  | 4,540  | 21,906 | 3,600 |        |
| Retirement                   | 14,065           | 14,091 | 11,983 | 18,091 | ...   |        |
| Remittance                   | 20,718           | 21,826 | 5,000  | 12,000 | ...   |        |
| All other income             | 4,747            | 5,022  | 2,460  | 3,493  | ...   |        |

Source: 1995 Mid-Decade Census Table 23

**Table 5.5 Individual Income Level by Gender, CNMI: 1994**

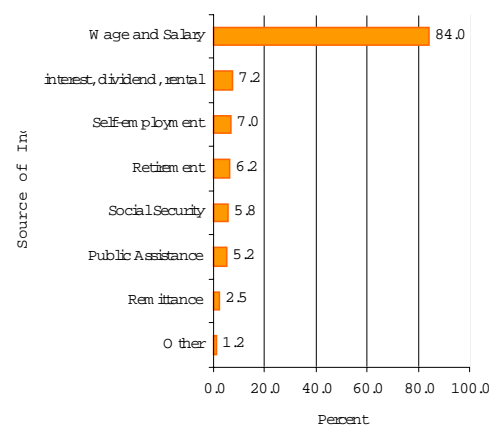
| Income                 | Numbers |        |         | Percent |       |         |
|------------------------|---------|--------|---------|---------|-------|---------|
|                        | Total   | Males  | Females | Total   | Males | Females |
| Total                  | 44,543  | 21,999 | 22,544  | ...     | ...   | ...     |
| Total with income      | 32,376  | 17,001 | 15,375  | 100.0   | 100.0 | 100.0   |
| Less than \$2,500      | 6,053   | 2,025  | 4,028   | 18.7    | 11.9  | 26.2    |
| \$2,500 to \$4,999     | 4,946   | 2,378  | 2,568   | 15.3    | 14.0  | 16.7    |
| \$5,000 to \$7,499     | 8,342   | 4,734  | 3,608   | 25.8    | 27.8  | 23.5    |
| \$7,500 to \$9,999     | 2,628   | 1,453  | 1,175   | 8.1     | 8.5   | 7.6     |
| \$10,000 to \$14,999   | 3,083   | 1,732  | 1,351   | 9.5     | 10.2  | 8.8     |
| \$15,000 to \$19,999   | 1,961   | 1,132  | 829     | 6.1     | 6.7   | 5.4     |
| \$20,000 to \$24,999   | 1,486   | 895    | 591     | 4.6     | 5.3   | 3.8     |
| \$25,000 to \$34,999   | 1,641   | 988    | 653     | 5.1     | 5.8   | 4.2     |
| \$35,000 to \$49,999   | 1,239   | 853    | 386     | 3.8     | 5.0   | 2.5     |
| \$50,000 or more       | 997     | 811    | 186     | 3.1     | 4.8   | 1.2     |
| Median (\$ US dollars) | 6,450   | 16,215 | 5,739   | ...     | ...   | ...     |
| Mean (\$ US dollars)   | 12,697  | 15,801 | 9,264   | ...     | ...   | ...     |

Source: 1995 CNMI Mid-Decade Census Table 136

**Sources of Household Income**

In 1994, 83.9 percent of households reported income from wages and salaries; 7.2 percent reported income from interest, dividend, and net rental; 7.2 percent reported income from self employment; 6.3 percent received public assistance; 6.0 percent received retirement income; 5.3 percent reported Social Security income; and 2.3 percent reported income from remittances.

**Figure 5.1 Household Income Source, 1994**



**Mean Household Income by Type**

Households whose primary source of income was from self-employment had the highest mean household income. Households reporting income from wages and salaries had the second highest mean income, followed by those reporting remittance income. The statistic mean is used for ease of calculation and all data are based on 1994 reported earnings.

**Individual Income**

In 1994, individual median income was \$6,450 where half of all persons reporting income had income below \$6,450 and half had income above \$6,450. Mean individual income was \$12,697. Approximately 19% of all persons with income received less than \$2,500 in 1994; about 26 percent received income between \$5,000 and less than \$7,499; almost 70 percent of all persons with income received less than \$10,000 in 1994. Women earned substantially lower incomes than men in the CNMI. Two-thirds of all women with income in 1994 earned less than \$7,500 compared to approximately 54% of men. In fact, men's median income was more than twice the median income for working women.

**Table 5.6 Individual Income Level by Island: 1994**

| Income               | Household |        |        |        | Families |        |        |        |
|----------------------|-----------|--------|--------|--------|----------|--------|--------|--------|
|                      | Total     | Saipan | Rota   | Tinian | Total    | Saipan | Rota   | Tinian |
| Total persons        | 12,057    | 10,844 | 690    | 522    | 8,252    | 7,384  | 461    | 406    |
| Less than \$2,500    | 1,501     | 1,365  | 92     | 44     | 871      | 797    | 36     | 38     |
| \$2,500 to \$4,999   | 569       | 524    | 28     | 17     | 276      | 253    | 14     | 9      |
| \$5,000 to \$9,999   | 1,609     | 1,494  | 71     | 44     | 1,020    | 945    | 41     | 34     |
| \$10,000 to \$14,999 | 1,441     | 1,331  | 67     | 42     | 995      | 915    | 50     | 29     |
| \$15,000 to \$24,999 | 2,164     | 1,919  | 132    | 113    | 1,533    | 1,343  | 104    | 86     |
| \$25,000 to \$34,999 | 1,443     | 1,267  | 96     | 80     | 979      | 862    | 62     | 55     |
| \$35,000 to \$49,999 | 1,407     | 1,229  | 98     | 80     | 1,049    | 914    | 69     | 66     |
| \$50,000 to \$74,999 | 1,055     | 928    | 71     | 56     | 834      | 725    | 58     | 51     |
| \$75,000 or more     | 868       | 787    | 35     | 46     | 695      | 630    | 27     | 38     |
| Median (\$ dollars)  | 21,691    | 19,094 | 21,691 | 25,135 | 23,606   | 20,651 | 23,606 | 26,458 |
| Mean (\$ dollars)    | ...       | 29,946 | 30,525 | 35,689 | ...      | 32,517 | 34,940 | 38,032 |

Source: 1995 CNM IM Hi-Decade Census Table 23.

### Income by Birthplace

Generally, persons born in the CNMI earned more than those born elsewhere, in 1994. Citizens and nationals of the United States, generally, earned more than non US citizens in the Commonwealth that year.

**Table 5.7 Number of Individual Income Level by Place of Birth: 1994**

| Income Level         | Number |                      |        |             |       |            |        |       |  |
|----------------------|--------|----------------------|--------|-------------|-------|------------|--------|-------|--|
|                      | Total  | Birthplace           |        |             |       |            |        |       |  |
|                      |        | CNMI                 | US     | Philippines | China | Other Asia | FSM    | Other |  |
| Total Persons        | 44,543 | 10,865               | 1,794  | 17,388      | 6,673 | 3,815      | 1,576  | 2,432 |  |
| Total with income    | 32,378 | 6,464                | 1,302  | 14,228      | 5,624 | 2,478      | 815    | 1,467 |  |
| \$1 to \$2,499       | 6,053  | 424                  | 44     | 2,421       | 2,621 | 360        | 81     | 102   |  |
| \$2,500 to \$4,999   | 4,946  | 439                  | 46     | 2,941       | 1,042 | 224        | 137    | 117   |  |
| \$5,000 to \$7,499   | 8,342  | 694                  | 67     | 5,310       | 1,459 | 365        | 212    | 235   |  |
| \$7,500 to \$14,999  | 5,712  | 1,474                | 179    | 2,548       | 416   | 521        | 196    | 378   |  |
| \$15,000 to \$24,999 | 3,447  | 1,699                | 215    | 638         | 39    | 443        | 117    | 296   |  |
| \$25,000 or more     | 3,878  | 1,734                | 751    | 370         | 47    | 565        | 72     | 339   |  |
| Median (\$)          | 6,451  | 16,183               | 29,587 | 5,685       | 3,030 | ...        | 7,242  | ...   |  |
| Mean (\$)            | 12,534 | 21,806               | 35,939 | 6,974       | 4,213 | ...        | 10,997 | ...   |  |
|                      |        | Percent Distribution |        |             |       |            |        |       |  |
| Total                | 100.0  | 100.0                | 100.0  | 100.0       | 100.0 | 100.0      | 100.0  | 100.0 |  |
| \$1 to \$2,499       | 18.7   | 6.6                  | 3.4    | 17.0        | 46.6  | 24.1       | 9.9    | 7.0   |  |
| \$2,500 to \$4,999   | 15.3   | 6.8                  | 3.5    | 20.7        | 18.5  | 18.8       | 16.8   | 8.0   |  |
| \$5,000 to \$7,499   | 25.8   | 10.7                 | 5.1    | 37.3        | 25.9  | 32.0       | 26.0   | 16.0  |  |
| \$7,500 to \$14,999  | 17.6   | 22.8                 | 13.7   | 17.9        | 7.4   | 15.6       | 24.0   | 25.8  |  |
| \$15,000 to \$24,999 | 10.6   | 26.3                 | 16.5   | 4.5         | 0.7   | 5.0        | 14.4   | 20.2  |  |
| \$25,000 or more     | 12.0   | 26.8                 | 57.7   | 2.6         | 0.8   | 4.4        | 8.8    | 23.1  |  |

Source: 1995 CNM IM Hi-Decade Census Table 136

**Table 5.8 Total CNMI Wage and Salary Income, Number of Wage and Salary Earners, and Average Earnings, CNMI: 1980 to 2000**

| Year | Total Wages and Salary Income (in thousands) | Number of W-2s Filed | Average Earnings (\$) |
|------|--|----------------------|-----------------------|
| 2000 | 558,814                                      | 56,457               | 9,898                 |
| 1999 | n/a  | n/a                  | n/a                   |
| 1998 | n/a  | n/a                  | n/a                   |
| 1997 | 581,321                                      | 57,917               | 10,037                |
| 1996 | 515,766                                      | 53,157               | 9,703                 |
| 1995 | 464,774                                      | 51,268               | 9,066                 |
| 1994 | 415,444                                      | 48,368               | 8,589                 |
| 1993 | 384,775                                      | 48,546               | 7,926                 |
| 1992 | 366,972                                      | 30,613               | 11,987                |
| 1991 | 322,301                                      | 47,867               | 6,733                 |
| 1990 | 262,251                                      | 41,531               | 6,315                 |
| 1989 | 209,746                                      | 35,882               | 5,845                 |
| 1988 | 105,211                                      | 19,435               | 5,413                 |
| 1987 | 101,058                                      | 19,350               | 5,223                 |
| 1986 | 80,006                                       | 14,640               | 5,465                 |
| 1985 | 77,504                                       | 10,367               | 7,476                 |
| 1984 | 69,500                                       | 9,980                | 6,964                 |
| 1983 | 63,725                                       | 9,753                | 6,534                 |
| 1982 | 54,868                                       | 8,681                | 6,320                 |
| 1981 | 48,180                                       | 8,180                | 5,890                 |
| 1980 | 41,863                                       | 7,627                | 5,489                 |

Source: Division of Revenue and Taxation

Note: "n/a" means not available. 1999 and 1998 data not submitted by source.

**Table 5.9 CNMI Mean Hourly Wages by Industry: 1980, 1990, and 1995**

| Industry   | Mean hourly wages |      |       |
|--|-------------------|------|-------|
|  | 1980              | 1990 | 1995  |
| Employed persons 16 years and over               | 3.11              | 5.56 | 6.13  |
| Agriculture                                      | 2.09              | 3.03 | 2.70  |
| Forestry and Fisheries                           | 3.54              | 5.59 | 2.48  |
| Mining   | 3.53              | 3.08 | 4.37  |
| Construction                                     | 2.17              | 3.44 | 3.60  |
| Manufacturing                                    | 2.69              | 3.23 | 2.38  |
| Non-durable goods                                | 2.51              | 2.94 | 2.33  |
| Durable goods                                    | 3.22              | 8.13 | 4.39  |
| Transportation, communication, & other utilities | 2.95              | 6.64 | 8.96  |
| Wholesale trade                                  | 2.98              | 6.30 | 5.91  |
| Retail trade                                     | 3.18              | 5.32 | 4.74  |
| Eating places                                    | 2.17              | 3.84 | 3.80  |
| Finance, insurance, and real estate              | 3.57              | 9.63 | 9.05  |
| Services   | 2.90              | 5.86 | 6.38  |
| Business and repair services                     | 2.56              | 4.41 | 3.50  |
| Personal services                                | 2.64              | 3.49 | 3.44  |
| Hotels and motels                                | 3.02              | 4.35 | 4.27  |
| Entertainment and recreation services            | 3.38              | 7.04 | 6.35  |
| Professional and related services                | 3.09              | 8.13 | 10.63 |
| Public administration                            | 4.03              | 9.20 | 11.81 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI: 1973 to 1999"

Note: All wages in current dollars

**Total Wage and Salary Income**

Data from the Division of Revenue and Taxation show a steady increase in overall number of W-2 forms filed as well as the total dollar amount of all wages and salaries combined between the years 1980 and 2000. Thus, the size of CNMI's labor force has grown dramatically during two decades of economic expansion.

**CNMI Average Wages by Industry**

In 1995, individuals employed in manufacturing earned the lowest mean hourly wage (\$2.38). Public administration employees earned the highest mean hourly wage (\$11.81) that year, and experienced the highest wage increase over a fifteen year period. The mean hourly wages for individuals in the financial industry also increased substantially, however mean wages in forestry and manufacturing actually declined over time.

**Mean Hourly Wage by Occupation**

The mean hourly wage rate was highest for individuals employed as professionals and managers, followed by individuals working as technologists or technicians. The lowest mean hourly rate in 1995 was found among private household domestic workers, followed by individuals in the construction industry. Professional specialists saw the sharpest increase in mean hourly rates over time.

**Table 5.10 CNM IMean HourlyW ages byO ccupation:  
1980, 1990, and 1995**

| O ccupation                              | M ean HourlyW age |       |       |
|--|-------------------|-------|-------|
|  | 1980              | 1990  | 1995  |
| Em ployed persons 16 years and over      | 3.11              | 5.56  | 6.13  |
| M anagerial and professional specialty   | 5.42              | 10.11 | 11.54 |
| Executive, adm inistative, and m anager  | 6.39              | 11.30 | 11.59 |
| Professional specialty                   | 4.26              | 8.33  | 11.46 |
| Technical, sales, and adm in support     | 2.89              | 6.38  | 7.05  |
| Technologists and technicians            | 3.12              | 6.61  | 7.82  |
| Sales                                    | 2.73              | 6.79  | 6.58  |
| Adm inistative support, incl. clerical   | 2.90              | 6.06  | 7.28  |
| Service                                  | 1.97              | 3.45  | 3.71  |
| Private household                        | 1.05              | 1.22  | 2.08  |
| Protective service                       | 2.32              | 5.14  | 5.95  |
| Service, except protective & household   | 1.98              | 3.65  | 3.49  |
| Farm ing, forestry, and fishing          | 1.97              | 3.29  | 3.10  |
| Precision production, craft and repair   | 2.21              | 3.20  | 3.77  |
| M echanics and repairers                 | 2.49              | 5.57  | 4.85  |
| C onstruction trades                     | 1.93              | 2.58  | 3.04  |
| Precision production                     | 2.85              | 3.95  | 3.83  |
| O perators, fabricators, and laborers    | 1.97              | 2.97  | 3.77  |
| M achine operators, assem blers, inspect | 2.13              | 2.40  | 3.07  |
| Transportation and m aterialm oving      | 2.08              | 4.38  | 5.99  |
| H andlers, equip cleaners, helpers       | 1.76              | 2.81  | 4.05  |

Source: "Recent Trends in Population, Labor Force, Em p bym ent, U nem p bym ent and W ages, CNM I: 1973 to 1999"

Note: All wages in current dollars

**Saipan Mean Hourly Wages by Occupation**

Wages in Saipan mirror those in the CNMI, since approximately 90% of the population lives on the island. Professionals experienced the greatest increase in mean hourly wages and domestic workers earned the lowest hourly wages in Saipan over the fifteen period.

**Table 5.11 Saipan M ean HourlyW ages byO ccupation:  
1980, 1990, and 1995**

| O ccupation                              | M ean HourlyW age |       |       |
|--|-------------------|-------|-------|
|  | 1980              | 1990  | 1995  |
| Em ployed persons 16 years and over      | 3.31              | 6.57  | 7.20  |
| M anagerial and professional specialty   | 5.73              | 10.91 | 12.27 |
| Executive, adm inistative, and m anager  | 6.79              | 11.92 | 12.05 |
| Professional specialty                   | 4.44              | 9.22  | 12.68 |
| Technical, sales, and adm in support     | 2.96              | 6.52  | 7.30  |
| Technologists and technicians            | 3.25              | 7.04  | 8.61  |
| Sales                                    | 2.73              | 6.94  | 6.79  |
| Adm inistative support, incl. clerical   | 2.98              | 6.14  | 7.50  |
| Service                                  | 2.00              | 3.37  | 3.84  |
| Private household                        | 1.06              | 1.21  | 2.01  |
| Protective service                       | 2.41              | 5.24  | 6.15  |
| Service, except protective & household   | 2.02              | 3.62  | 3.72  |
| Farm ing, forestry, and fishing          | 2.12              | 3.72  | 3.38  |
| Precision production, craft and repair   | 2.40              | 3.96  | 4.37  |
| M echanics and repairers                 | 2.46              | 5.08  | 5.24  |
| C onstruction trades                     | 2.09              | 3.27  | 3.48  |
| Precision production                     | 3.02              | 4.60  | 4.09  |
| O perators, fabricators, and laborers    | 1.93              | 3.61  | 5.40  |
| M achine operators, assem blers, inspect | 2.03              | 2.90  | 5.39  |
| Transportation and m aterialm oving      | 1.98              | 4.76  | 6.71  |
| H andlers, equip cleaners, helpers       | 1.82              | 3.03  | 4.42  |

Source: "Recent Trends in Population, Labor Force, Em p bym ent, U nem p bym ent and W ages, CNM I: 1973 to 1999"

Note: All wages in current dollars

**Table 5.12 Mean Hourly Wages by Industry, Saipan:  
1980, 1990 and 1995**

| Industry                                    | Mean hourly wages |       |       |
|---|-------------------|-------|-------|
|   | 1980              | 1990  | 1995  |
| Employed persons 16 years and over          | 3.31              | 6.57  | 7.20  |
| Agriculture                                 | 2.20              | 3.36  | 3.13  |
| Forestry and Fisheries                      | 3.84              | 6.83  | 4.32  |
| Mining                                      | 3.53              | 2.82  | 5.93  |
| Construction                                | 2.34              | 4.93  | 4.53  |
| Manufacturing                               | 2.83              | 4.73  | 3.94  |
| Nondurable goods                            | 2.61              | 4.17  | 3.89  |
| Durable goods                               | 3.50              | 8.51  | 4.83  |
| Transportation, communic, & other utilities | 2.96              | 6.57  | 9.50  |
| Wholesale trade                             | 2.86              | 6.65  | 6.08  |
| Retail trade                                | 3.32              | 8.85  | 5.13  |
| Eating places                               | 2.35              | 4.58  | 4.22  |
| Finance, insurance, and real estate         | 3.60              | 9.84  | 9.13  |
| Services                                    | 2.98              | 6.36  | 7.11  |
| Business and repair services                | 2.53              | 4.93  | 4.19  |
| Personal services                           | 2.67              | 3.24  | 3.65  |
| Hotels and motels                           | 3.08              | 4.31  | 5.00  |
| Entertainment and recreation services       | 3.42              | 10.19 | 6.58  |
| Professional and related services           | 3.24              | 8.39  | 11.69 |
| Public administration                       | 4.30              | 9.75  | 12.29 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

**Table 5.13 CNMI Hourly Mean Wages by Occupation and by  
Place of Birth: 1980, 1990 and 1995**

| Occupation                                   | Born in CNMI |       |       | Born in Asia |      |      |
|--|--------------|-------|-------|--------------|------|------|
|  | 1980         | 1990  | 1995  | 1980         | 1990 | 1995 |
| Employed persons 16 years and over           | 2.68         | 7.53  | 10.10 | 2.30         | 3.82 | 3.85 |
| Managerial and professional specialty        | 3.90         | 11.05 | 12.87 | 3.62         | 7.92 | 8.28 |
| Executive, administrative, and manager       | 4.57         | 12.10 | 13.74 | 4.33         | 9.47 | 8.57 |
| Professional specialty                       | 3.03         | 8.72  | 11.28 | 2.85         | 5.56 | 7.68 |
| Technical, sales, and administrative support | 2.63         | 6.26  | 8.76  | 3.08         | 6.27 | 5.34 |
| Technologists and technicians                | 2.94         | 7.07  | 8.30  | 3.34         | 4.37 | 5.53 |
| Sales  | 2.56         | 5.99  | 9.00  | 2.94         | 7.18 | 5.50 |
| Administrative support, incl. clerical       | 2.58         | 6.23  | 8.75  | 3.07         | 5.69 | 5.07 |
| Service                                      | 2.04         | 5.25  | 8.47  | 1.67         | 2.65 | 2.60 |
| Private household                            | 2.76         | 3.00  | 10.66 | 0.96         | 1.21 | 1.74 |
| Protective service                           | 2.30         | 6.03  | 9.63  | 2.53         | 2.81 | 2.38 |
| Service, except protective & household       | 1.95         | 4.77  | 6.62  | 2.04         | 3.19 | 2.95 |
| Farming, forestry, and fishing               | 1.72         | 4.66  | 9.12  | 1.70         | 2.79 | 2.03 |
| Precision production, craft and repair       | 2.39         | 5.96  | 8.61  | 1.97         | 2.43 | 2.99 |
| Mechanics and repairers                      | 2.39         | 5.92  | 8.45  | 2.34         | 3.15 | 3.58 |
| Construction trades                          | 2.26         | 6.53  | 9.03  | 1.84         | 2.30 | 2.66 |
| Precision production                         | 2.62         | 5.26  | 8.58  | 2.46         | 3.10 | 3.17 |
| Operators, fabricators, and laborers         | 1.78         | 4.46  | 7.53  | 2.39         | 2.42 | 2.49 |
| Machine operators, assemblers, inspectors    | 1.77         | 3.72  | 8.84  | 2.35         | 2.29 | 2.16 |
| Transportation and material moving           | 1.97         | 4.86  | 6.64  | 2.52         | 3.19 | 3.88 |
| Handlers, equipment cleaners, helpers        | 1.57         | 4.00  | 6.89  | 2.24         | 2.29 | 2.92 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

### **Mean Hourly Wages by Occupation and Birthplace**

Census data show that the gap in mean hourly wages between CNMI and Asian-born persons has widened considerably since 1980. CNMI-born workers earn significantly higher hourly mean wages than Asian-born workers within the same occupation.

### **CNMI Mean Hourly Wage by Class of Worker**

Overall self-employed labor force participants earned the highest mean hourly wages in 1995, followed by government employees. Private sector workers earned the lowest mean hourly wages in 1995. The CNMI mean wage generally increased during the 1980-1995 period, however some fluctuation occurred in wages between 1990 and 1995.

**Table 5.14 CNMI Hourly Mean Wages by Class of Worker: 1980, 1990 and 1995**

| Class of Worker                     | Mean hourly wages |      |       |
|-------------------------------------|-------------------|------|-------|
|                                     | 1980              | 1990 | 1995  |
| Employed persons 16 years and over  | 3.11              | 5.56 | 6.13  |
| Private for wage and salary workers | 2.38              | 4.45 | 4.48  |
| Government workers                  | 3.52              | 8.58 | 11.65 |
| Self-employed workers               | 14.23             | 7.91 | 14.96 |
| Unpaid family workers               | 3.17              | 5.73 | 6.36  |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI: 1973 to 1999"

Note: All wages in current dollars

**Table 5.15 Mean Hourly Wages by Class of Worker, Saipan: 1980, 1990 and 1995**

| Class of Worker                     | Mean hourly wages |      |       |
|-------------------------------------|-------------------|------|-------|
|                                     | 1980              | 1990 | 1995  |
| Employed persons 16 years and over  | 3.31              | 6.57 | 7.20  |
| Private for wage and salary workers | 2.50              | 5.50 | 5.47  |
| Government workers                  | 3.71              | 8.85 | 12.06 |
| Self-employed workers               | 14.85             | 7.58 | 15.43 |
| Unpaid family workers               | 3.17              | 7.04 | 6.81  |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI: 1973 to 1999"

Note: All wages in current dollars

**Table 5.16 CNMI Hourly Mean Wages by Ethnicity: 1980, 1990 and 1995**

| Ethnicity         | Mean hourly wages |       |       |
|-------------------|-------------------|-------|-------|
|                   | 1980              | 1990  | 1995  |
| All persons       | 3.11              | 5.56  | 6.13  |
| Chamorro          | 2.84              | 7.99  | 10.55 |
| Carolinian        | 2.08              | 5.51  | 7.86  |
| Pakuan            | 2.78              | 4.68  | 7.13  |
| Other Micronesian | 3.13              | 3.91  | 5.65  |
| Filipino          | 2.18              | 2.94  | 3.61  |
| Chinese           | 6.70              | 2.59  | 1.72  |
| Other Asian       | 3.78              | 11.84 | 9.67  |
| Other ethnic      | 8.94              | 14.05 | 17.50 |
| Multiple ethnic   | 2.57              | 7.87  | 9.72  |
| All Females       | 2.71              | 4.83  | 5.37  |
| Chamorro          | 2.49              | 7.32  | 9.87  |
| Carolinian        | 2.04              | 5.39  | 7.40  |
| Pakuan            | 2.27              | 4.68  | 7.35  |
| Other Micronesian | 2.55              | 3.38  | 4.95  |
| Filipino          | 1.83              | 3.15  | 3.78  |
| Chinese           | 6.29              | 1.95  | 1.46  |
| Other Asian       | 3.83              | 5.51  | 6.85  |
| Other ethnic      | 8.08              | 10.60 | 14.11 |
| Multiple ethnic   | 2.31              | 6.78  | 8.49  |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI: 1973 to 1999"

Note: All wages in current dollars

### **CNMI Wage by Ethnicity**

Individuals from "other" ethnicity (e.g. whites) earned the highest mean hourly wages in 1995, followed by locally born Chamorro persons. Chinese workers earned the lowest mean wages of any ethnic group in 1995. The relatively high mean wages of Chinese persons in 1980 is a result of very low population size rather than inflated wages.

**Table 5.17 CNMI Hourly Mean Wages by Place of Birth:  
1980, 1990 and 1995**

| Birthplace  | Mean hourly wages |       |       |
|-------------|-------------------|-------|-------|
|             | 1980              | 1990  | 1995  |
| All persons | 3.11              | 5.56  | 6.13  |
| CNMI        | 2.68              | 7.53  | 10.10 |
| Saipan      | 2.68              | 7.43  | 10.02 |
| Tinian      | 2.41              | 7.80  | 10.93 |
| Rota        | 2.78              | 8.26  | 10.21 |
| Palau       | 2.91              | 5.19  | 7.21  |
| FSM         | 2.78              | 4.33  | 5.72  |
| Asia        | 2.30              | 3.82  | 3.85  |
| Philippines | 2.10              | 2.95  | 3.60  |
| China       | 7.55              | 2.26  | 1.65  |
| US and Guam | 10.31             | 13.20 | 14.15 |
| Elsewhere   | 4.33              | 8.65  | 15.97 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

**Table 5.18 CNMI Hourly Mean Wages by Industry and Place of Birth:  
1980, 1990 and 1995**

| Industry   | Born in CNMI |       |       | Born in Asia |       |      |
|--|--------------|-------|-------|--------------|-------|------|
|  | 1980         | 1990  | 1995  | 1980         | 1990  | 1995 |
| Employed persons 16 years and over               | 2.86         | 7.53  | 10.10 | 2.30         | 3.82  | 3.85 |
| Agriculture                                      | 2.16         | 6.01  | 5.90  | 2.01         | 2.41  | 2.42 |
| Forestry and fisheries                           | 2.19         | 4.48  | 2.48  | -            | 5.17  | 1.89 |
| Mining   | 4.57         | 2.95  | 5.24  | -            | 3.09  | 4.16 |
| Construction                                     | 2.27         | 9.59  | 13.78 | 2.06         | 2.65  | 3.26 |
| Manufacturing                                    | 2.84         | 7.62  | 6.20  | 1.97         | 2.75  | 2.04 |
| Nondurable goods                                 | 2.61         | 7.02  | 6.12  | 1.92         | 2.50  | 2.00 |
| Durable goods                                    | 3.70         | 12.55 | 8.23  | 2.19         | 8.49  | 3.49 |
| Transportation, communication, & other utilities | 2.62         | 6.59  | 9.03  | 4.02         | 5.67  | 8.09 |
| Wholesale trades                                 | 2.97         | 4.85  | 5.87  | 4.56         | 6.07  | 5.02 |
| Retail trades                                    | 2.45         | 6.22  | 7.21  | 2.60         | 4.74  | 4.08 |
| Eating places                                    | 2.25         | 7.19  | 6.31  | 2.27         | 3.41  | 3.45 |
| Finance, insurance, and real estate              | 3.29         | 7.54  | 10.75 | 3.41         | 13.92 | 6.80 |
| Services   | 2.44         | 7.11  | 10.10 | 2.05         | 4.19  | 3.89 |
| Business and repair services                     | 2.52         | 7.24  | 8.03  | 2.12         | 3.43  | 2.95 |
| Personal services                                | 1.96         | 4.61  | 6.94  | 1.75         | 3.28  | 2.99 |
| Hotels and motels                                | 1.97         | 4.67  | 6.90  | 2.46         | 4.39  | 3.77 |
| Entertainment and recreation services            | 3.40         | 6.10  | 7.01  | 2.05         | 6.94  | 5.32 |
| Professional and related services                | 2.61         | 7.60  | 10.85 | 3.17         | 6.39  | 7.10 |
| Public administration                            | 3.06         | 8.68  | 11.50 | 4.04         | 10.83 | 9.98 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

### **CNMI Wages by Industry and Birthplace**

Data in this table parallel the trends presented in table 5.13 which summarizes mean hourly wages by occupation and place of birth.



### Saipan Wages by Occupation & Birthplace

CNMI-born working adults earned substantially higher wages than Asian-born workers in every occupational category in 1995. Mean hourly wages increased over time for all CNMI-born workers, though wages remained stagnant for Asians employed in the service, farming and manufacturing industries.

Table 5.19 Saipan Mean Wages by Occupation and Place of Birth: 1980, 1990 and 1995

| Occupation                                   | Born in CNMI |       |       | Born in Asia |       |      |
|--|--------------|-------|-------|--------------|-------|------|
|  | 1980         | 1990  | 1995  | 1980         | 1990  | 1995 |
| Employed persons 16 years and over           | 2.75         | 7.57  | 10.13 | 2.49         | 5.06  | 4.78 |
| Managerial and professional specialty        | 4.01         | 11.38 | 13.30 | 3.87         | 9.20  | 9.21 |
| Executive, administrative, and Manager       | 4.76         | 12.56 | 13.82 | 4.57         | 10.33 | 9.30 |
| Professional specialty                       | 3.02         | 8.71  | 12.15 | 3.05         | 6.87  | 9.01 |
| Technical, sales, and administrative support | 2.69         | 6.23  | 8.73  | 3.14         | 6.93  | 5.77 |
| Technologists and technicians                | 3.06         | 7.18  | 8.94  | 3.43         | 5.16  | 6.19 |
| Sales  | 2.59         | 5.87  | 8.50  | 3.01         | 7.83  | 5.90 |
| Administrative support, including clerical   | 2.66         | 6.25  | 8.79  | 3.13         | 6.19  | 5.48 |
| Service                                      | 2.10         | 5.17  | 8.37  | 1.67         | 2.24  | 2.63 |
| Private household                            | 2.76         | 3.00  | 10.18 | 0.96         | 1.20  | 1.64 |
| Protective service                           | 2.40         | 6.00  | 9.59  | 3.13         | 2.75  | 2.68 |
| Service, except protective & household       | 2.00         | 4.64  | 6.58  | 2.11         | 2.92  | 3.09 |
| Farming, forestry, and fishing               | 1.81         | 4.49  | 8.60  | 1.55         | 3.46  | 1.98 |
| Precision production, craft and repair       | 2.44         | 5.93  | 8.63  | 2.12         | 2.84  | 3.28 |
| Mechanics and repairers                      | 2.47         | 5.80  | 8.46  | 2.11         | 3.37  | 3.76 |
| Construction trades                          | 2.28         | 6.87  | 9.16  | 1.98         | 2.60  | 2.84 |
| Precision production                         | 2.67         | 5.09  | 8.30  | 2.69         | 4.02  | 3.43 |
| Operators, fabricators, and laborers         | 1.77         | 4.40  | 7.37  | 2.31         | 3.09  | 3.94 |
| Machine operators, assemblers, inspectors    | 1.79         | 3.74  | 8.65  | 2.09         | 2.93  | 4.01 |
| Transportation and material moving           | 1.95         | 4.80  | 6.44  | 2.20         | 3.82  | 4.44 |
| Handlers, equipment cleaners, helpers        | 1.58         | 3.93  | 6.81  | 2.76         | 2.56  | 3.48 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

### CNMI Wages by Class of Worker and Birthplace

Self-employed CNMI-born workers earned the highest mean hourly wages in 1995 compared to Asian-born private salary workers who received the lowest mean hourly wages.

Table 5.20 CNMI Mean Hourly Wages by Class of Worker and Place of Birth: 1980, 1990 and 1995

| Class of Worker                     | Born in CNMI |      |       | Born in Asia |      |       |
|-------------------------------------|--------------|------|-------|--------------|------|-------|
|                                     | 1980         | 1990 | 1995  | 1980         | 1990 | 1995  |
| Employed persons 16 years and over  | 2.68         | 7.53 | 10.10 | 2.30         | 3.82 | 3.85  |
| Private for wage and salary workers | 2.39         | 6.70 | 8.25  | 2.18         | 3.63 | 3.50  |
| Government workers                  | 2.83         | 8.05 | 10.96 | 3.76         | 7.74 | 11.15 |
| Self-employed workers               | 4.59         | 7.40 | 18.34 | 2.60         | 5.26 | 12.16 |
| Unpaid family workers               | 1.51         | 3.53 | 7.21  | -            | 3.75 | 6.45  |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

Table 5.21 Saipan Mean Hourly Wages by Class of Worker and Place of Birth: 1980, 1990 and 1995

| Class of Worker                     | Born in CNMI |      |       | Born in Asia |      |       |
|-------------------------------------|--------------|------|-------|--------------|------|-------|
|                                     | 1980         | 1990 | 1995  | 1980         | 1990 | 1995  |
| Employed persons 16 years and over  | 2.75         | 7.57 | 10.13 | 2.49         | 5.06 | 4.78  |
| Private for wage and salary workers | 2.43         | 6.64 | 8.29  | 2.33         | 4.79 | 4.33  |
| Government workers                  | 2.93         | 8.30 | 11.18 | 3.77         | 8.44 | 11.94 |
| Self-employed workers               | 4.65         | 7.19 | 18.76 | 2.61         | 5.26 | 12.59 |
| Unpaid family workers               | 1.51         | 0.08 | -     | -            | 5.13 | 7.33  |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

**Table 5.22 CNMI Household and Family Income: 1980, 1990 and 1995**

| Income Level           | Number with Income |        |        | Percent Distribution |       |       |
|------------------------|--------------------|--------|--------|----------------------|-------|-------|
|                        | 1980               | 1990   | 1995   | 1980                 | 1990  | 1995  |
| All households         | 3,028              | 6,873  | 12,057 | 100.0                | 100.0 | 100.0 |
| Less than \$2,500      | 343                | 362    | 1,501  | 11.3                 | 5.3   | 12.4  |
| \$2,500 to \$4,999     | 515                | 374    | 569    | 17.0                 | 5.4   | 4.7   |
| \$5,000 to \$9,999     | 870                | 954    | 1,609  | 28.7                 | 13.9  | 13.3  |
| \$10,000 to \$14,999   | 515                | 860    | 1,441  | 17.0                 | 12.5  | 12.0  |
| \$15,000 to \$24,999   | 465                | 1,449  | 2,164  | 15.4                 | 21.1  | 17.9  |
| \$25,000 to \$34,999   | 174                | 953    | 1,443  | 5.7                  | 13.9  | 12.0  |
| \$35,000 to \$49,999   | 92                 | 827    | 1,407  | 3.0                  | 12.0  | 11.7  |
| \$50,000 to \$74,999   | 32                 | 581    | 1,055  | 1.1                  | 8.5   | 8.8   |
| \$75,000 or more       | 22                 | 513    | 868    | 0.7                  | 7.5   | 7.2   |
| Median (dollars)       | 8,770              | 21,118 | 19,198 | -                    | -     | -     |
| Mean (dollars)         | 12,859             | 37,713 | 29,946 | -                    | -     | -     |
| All families           | 2,652              | 5,312  | 8,252  | 100.0                | 100.0 | 100.0 |
| Less than \$2,500      | 188                | 201    | 871    | 7.1                  | 3.8   | 10.6  |
| \$2,500 to \$4,999     | 467                | 235    | 276    | 17.6                 | 4.4   | 3.3   |
| \$5,000 to \$9,999     | 797                | 738    | 1,020  | 30.1                 | 13.9  | 12.4  |
| \$10,000 to \$14,999   | 479                | 695    | 995    | 18.1                 | 13.1  | 12.1  |
| \$15,000 to \$24,999   | 422                | 1,146  | 1,533  | 15.9                 | 21.6  | 18.6  |
| \$25,000 to \$34,999   | 161                | 751    | 979    | 6.1                  | 14.1  | 11.9  |
| \$35,000 to \$49,999   | 89                 | 658    | 1,049  | 3.4                  | 12.4  | 12.7  |
| \$50,000 to \$74,999   | 30                 | 482    | 834    | 1.1                  | 9.1   | 10.1  |
| \$75,000 or more       | 19                 | 406    | 695    | 0.7                  | 7.6   | 8.4   |
| Median (dollars)       | 9,210              | 21,867 | 21,288 | -                    | -     | -     |
| Mean (dollars)         | 13,294             | 35,994 | 32,921 | -                    | -     | -     |
| Per capita income (\$) | 3,298              | 7,199  | 7,580  |                      |       |       |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

**Table 5.23 Saipan Household and Family Income: 1980, 1990 and 1995**

| Income Level           | Number with Income |        |        | Percent Distribution |       |       |
|------------------------|--------------------|--------|--------|----------------------|-------|-------|
|                        | 1980               | 1990   | 1995   | 1980                 | 1990  | 1995  |
| All households         | 2,632              | 6,085  | 10,844 | 100.0                | 100.0 | 100.0 |
| Less than \$2,500      | 276                | 307    | 1,365  | 10.5                 | 5.0   | 12.6  |
| \$2,500 to \$4,999     | 429                | 319    | 524    | 16.3                 | 5.2   | 4.8   |
| \$5,000 to \$9,999     | 735                | 834    | 1,494  | 27.9                 | 13.7  | 13.8  |
| \$10,000 to \$14,999   | 457                | 765    | 1,331  | 17.4                 | 12.6  | 12.3  |
| \$15,000 to \$24,999   | 430                | 1,266  | 1,919  | 16.3                 | 20.8  | 17.7  |
| \$25,000 to \$34,999   | 164                | 852    | 1,267  | 6.2                  | 14.0  | 11.7  |
| \$35,000 to \$49,999   | 90                 | 732    | 1,229  | 3.4                  | 12.0  | 11.3  |
| \$50,000 to \$74,999   | 31                 | 538    | 928    | 1.2                  | 8.8   | 8.6   |
| \$75,000 or more       | 20                 | 472    | 787    | 0.8                  | 7.8   | 7.3   |
| Median (dollars)       | 9,156              | 21,457 | 18,689 | -                    | -     | -     |
| Mean (dollars)         | 13,515             | 35,452 | 29,634 | -                    | -     | -     |
| All families           | 2,320              | 4,702  | 7,384  | 100.0                | 100.0 | 100.0 |
| Less than \$2,500      | 152                | 178    | 797    | 6.6                  | 3.8   | 10.8  |
| \$2,500 to \$4,999     | 388                | 203    | 253    | 16.7                 | 4.3   | 3.4   |
| \$5,000 to \$9,999     | 679                | 654    | 945    | 29.3                 | 13.9  | 12.8  |
| \$10,000 to \$14,999   | 426                | 608    | 915    | 18.4                 | 12.9  | 12.4  |
| \$15,000 to \$24,999   | 391                | 1,006  | 1,343  | 16.9                 | 21.4  | 18.2  |
| \$25,000 to \$34,999   | 150                | 654    | 862    | 6.5                  | 13.9  | 11.7  |
| \$35,000 to \$49,999   | 87                 | 580    | 914    | 3.8                  | 12.3  | 12.4  |
| \$50,000 to \$74,999   | 29                 | 446    | 725    | 1.3                  | 9.5   | 9.8   |
| \$75,000 or more       | 18                 | 373    | 630    | 0.8                  | 7.9   | 8.5   |
| Median (dollars)       | 9,566              | 22,038 | 20,823 | -                    | -     | -     |
| Mean (dollars)         | 13,966             | 36,597 | 32,517 | -                    | -     | -     |
| Per capita income (\$) | 3,467              | 7,721  | 7,645  |                      |       |       |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

### **CNMI Household and Family Income Distribution**

The proportion of CNMI households earning \$15,000 or more increased from 26% in 1980 to nearly 58% in 1995. The proportion of households earning \$15,000 annually or more was highest in 1990 (63%) at the peak of economic expansion. Median household income rose significantly between 1980 and 1990 but dropped during the next five years. Income trends for families generally followed the same pattern, where median family income rose between 1980 and 1990 before leveling off in 1995.

### **Saipan Income Distribution**

The proportion of Saipan households earning \$15,000 or more doubled from 28% in 1980 to 64% in 1990, but decreased to 57% in 1995. Thus, household income rose between 1980 and 1990 before dropping over the next five years. Income trends for Saipan families followed the same pattern, where media family income rose between 1980 and 1990 before leveling off in 1995.

### CNMI Income by Ethnicity Over Time

Income data on ethnicity show that households classified as "other single ethnic" have earned among the highest median incomes during the 1980-1995 period. These households tend to be Caucasian. Median incomes for all ethnicities except Chinese increased over time. The decrease in median wages among Chinese persons is attributed to the influx of low-wage garment workers as well as a very small 1980 population size of individuals who tended to earn high median wages. Income trends for families over time follow the overall pattern for CNMI households by ethnicity.

### Saipan Income by Ethnicity Over Time

Median household and family income trends for Saipan follow the same pattern as the total CNMI. Overall, median household and family income rose between 1980 and 1990 before dropping slightly in 1995. Incomes increased for all ethnic groups except Chinese over time, a change which is likely attributed to the rapid growth of low-wage manufacturing jobs and a very small 1980 population size of relatively affluent Chinese persons.

**Table 5.24 CNMI Household and Family Median and Mean Income by Ethnicity: 1980, 1990 and 1995**

| Ethnicity           | Median in dollars |        |        | Mean in dollars |        |        |
|---------------------|-------------------|--------|--------|-----------------|--------|--------|
|                     | 1980              | 1990   | 1995   | 1980            | 1990   | 1995   |
| All households      | 8,770             | 21,118 | 19,198 | 12,859          | 34,713 | 29,946 |
| Chamorro            | 8,338             | 24,479 | 27,484 | 11,464          | 39,750 | 39,460 |
| Carolinian          | 6,343             | 17,650 | 17,828 | 7,600           | 22,985 | 22,794 |
| Pakuan              | 8,750             | 15,556 | 19,623 | 10,846          | 21,263 | 24,117 |
| Other Micronesian   | 10,530            | 13,625 | 13,732 | 11,897          | 18,653 | 19,183 |
| Filipino            | 8,202             | 13,371 | 12,876 | 10,431          | 20,037 | 18,088 |
| Chinese             | 12,917            | 21,429 | 7,377  | 14,198          | 45,244 | 18,770 |
| Other Asian         | 9,813             | 24,132 | 20,504 | 12,746          | 42,731 | 35,348 |
| Other single ethnic | 20,833            | 40,826 | 39,746 | 29,260          | 58,319 | 47,469 |
| Multiple ethnic     | 8,542             | 30,303 | 24,078 | 17,124          | 53,211 | 35,036 |
| All families        | 9,210             | 21,867 | 21,288 | 13,294          | 35,994 | 32,921 |
| Chamorro            | 8,873             | 24,131 | 27,112 | 11,819          | 38,736 | 39,660 |
| Carolinian          | 6,818             | 16,778 | 17,455 | 7,688           | 22,364 | 22,325 |
| Pakuan              | 9,141             | 15,658 | 20,109 | 11,301          | 21,366 | 24,330 |
| Other Micronesian   | 11,061            | 13,824 | 13,841 | 12,330          | 19,069 | 19,411 |
| Filipino            | 8,571             | 14,299 | 12,985 | 10,897          | 22,122 | 18,432 |
| Chinese             | 12,500            | 22,500 | 12,065 | 11,659          | 54,629 | 28,018 |
| Other Asian         | 10,795            | 26,452 | 24,441 | 14,614          | 48,083 | 41,094 |
| Other single ethnic | 23,491            | 43,343 | 45,058 | 33,131          | 62,554 | 53,787 |
| Multiple ethnic     | 9,615             | 30,000 | 23,933 | 18,411          | 49,961 | 36,531 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

**Table 5.25 Saipan Household and Family Median and Mean Income by Ethnicity: 1980, 1990 and 1995**

| Ethnicity           | Median |        |        | Mean   |        |        |
|---------------------|--------|--------|--------|--------|--------|--------|
|                     | 1980   | 1990   | 1995   | 1980   | 1990   | 1995   |
| All households      | 9,156  | 21,457 | 18,689 | 13,515 | 35,452 | 29,634 |
| Chamorro            | 8,879  | 25,290 | 27,382 | 12,282 | 41,202 | 39,376 |
| Carolinian          | 6,357  | 17,700 | 17,833 | 7,657  | 23,014 | 22,835 |
| Pakuan              | 8,833  | 15,864 | 19,615 | 10,895 | 20,319 | 24,065 |
| Other Micronesian   | 10,703 | 13,563 | 13,571 | 12,202 | 18,578 | 19,203 |
| Filipino            | 8,231  | 13,836 | 12,668 | 10,422 | 20,780 | 17,932 |
| Chinese             | 12,917 | 22,500 | 7,438  | 14,198 | 46,934 | 18,948 |
| Other Asian         | 10,625 | 24,329 | 21,283 | 13,830 | 43,382 | 36,527 |
| Other single ethnic | 21,522 | 42,290 | 40,566 | 29,921 | 60,825 | 48,262 |
| Multiple ethnic     | 8,333  | 31,071 | 23,299 | 16,711 | 53,533 | 34,311 |
| All families        | 9,566  | 22,038 | 20,823 | 13,966 | 36,597 | 32,517 |
| Chamorro            | 9,357  | 24,843 | 27,149 | 12,591 | 40,210 | 39,617 |
| Carolinian          | 6,852  | 16,833 | 17,523 | 7,743  | 22,391 | 22,375 |
| Pakuan              | 9,250  | 15,789 | 20,056 | 11,363 | 20,185 | 24,217 |
| Other Micronesian   | 11,094 | 13,603 | 13,713 | 12,470 | 18,929 | 19,444 |
| Filipino            | 8,611  | 14,467 | 12,795 | 10,838 | 22,377 | 18,316 |
| Chinese             | 12,500 | 22,857 | 12,174 | 11,659 | 55,699 | 28,165 |
| Other Asian         | 11,375 | 26,935 | 24,527 | 15,465 | 48,887 | 41,111 |
| Other single ethnic | 24,135 | 44,375 | 46,125 | 34,079 | 64,757 | 55,074 |
| Multiple ethnic     | 9,423  | 30,714 | 23,373 | 17,999 | 49,882 | 35,766 |

Source: "Recent Trends in Population, Labor Force, Employment, Unemployment and Wages, CNMI 1973 to 1999"

Note: All wages in current dollars

**Table 5.26 Nutritional Assistance Program (NAP) Actual Participation in the CNMI by Month: FY 1999 and FY 2000**

| Month     | 2000   |             |               | 1999   |             |               |
|-----------|--------|-------------|---------------|--------|-------------|---------------|
|           | HH     | Individuals | Benefits (\$) | HH     | Individuals | Benefits (\$) |
| Total     | 19,108 | 62,652      | 4,786,456     | 15,740 | 53,053      | 4,097,522     |
| October   | 1,544  | 5,141       | 391,549       | 1,104  | 3,822       | 292,918       |
| November  | 1,555  | 5,153       | 388,982       | 1,140  | 3,922       | 302,922       |
| December  | 1,552  | 5,153       | 391,350       | 1,185  | 4,021       | 313,315       |
| January   | 1,494  | 5,019       | 383,633       | 1,198  | 4,060       | 314,971       |
| February  | 1,540  | 5,088       | 391,681       | 1,234  | 4,168       | 323,806       |
| March     | 1,573  | 5,180       | 399,952       | 1,309  | 4,377       | 339,204       |
| April     | 1,624  | 5,295       | 403,404       | 1,343  | 4,501       | 347,707       |
| May       | 1,648  | 5,318       | 405,435       | 1,395  | 4,684       | 362,554       |
| June      | 1,668  | 5,387       | 409,871       | 1,418  | 4,745       | 363,962       |
| July      | 1,656  | 5,379       | 411,925       | 1,438  | 4,779       | 366,035       |
| August    | 1,636  | 5,295       | 406,834       | 1,488  | 4,987       | 381,510       |
| September | 1,618  | 5,244       | 401,840       | 1,488  | 4,987       | 388,618       |

Source: Nutritional Assistance Program, Department of Community and Cultural Affairs

### **Nutritional Assistance in the CNMI**

The number of Nutritional Assistance recipients in the CNMI increased between 1999 and 2000 overall.

**Table 5.27 NAP Actual Participation in Saipan by Month: FY 1999 and FY 2000**

| Month     | 2000   |             |               | 1999   |             |               |
|-----------|--------|-------------|---------------|--------|-------------|---------------|
|           | HH     | Individuals | Benefits (\$) | HH     | Individuals | Benefits (\$) |
| Total     | 17,611 | 57,194      | 4,336,357     | 14,640 | 49,088      | 3,783,932     |
| October   | 1,425  | 4,687       | 354,631       | 1,034  | 3,588       | 275,687       |
| November  | 1,433  | 4,689       | 351,583       | 1,059  | 3,633       | 281,389       |
| December  | 1,434  | 4,708       | 354,717       | 1,098  | 3,724       | 290,833       |
| January   | 1,387  | 4,616       | 349,519       | 1,114  | 3,767       | 292,733       |
| February  | 1,426  | 4,651       | 354,898       | 1,152  | 3,885       | 301,817       |
| March     | 1,447  | 4,705       | 360,217       | 1,225  | 4,098       | 316,911       |
| April     | 1,492  | 4,814       | 362,860       | 1,257  | 4,197       | 322,867       |
| May       | 1,519  | 4,865       | 368,147       | 1,295  | 4,315       | 333,029       |
| June      | 1,531  | 4,913       | 371,050       | 1,316  | 4,354       | 333,064       |
| July      | 1,525  | 4,920       | 374,872       | 1,328  | 4,373       | 335,045       |
| August    | 1,504  | 4,833       | 368,986       | 1,381  | 4,577       | 348,524       |
| September | 1,488  | 4,793       | 364,877       | 1,381  | 4,577       | 352,033       |

Source: Nutritional Assistance Program, Department of Community and Cultural Affairs

### **Nutritional Assistance in Saipan**

The number of Nutritional Assistance recipients in Saipan increased between 1999 and 2000.

**Nutritional Assistance in Rota**

The number of Nutritional Assistance recipients in Rota increased between 1999 and 2000.

**Table 5.28 NAP Actual Participation in Rota by Month: FY 1999 and FY 2000**

| Month     | 2000 |             |               | 1999 |             |               |
|-----------|------|-------------|---------------|------|-------------|---------------|
|           | HH   | Individuals | Benefits (\$) | HH   | Individuals | Benefits (\$) |
| Total     | 894  | 3,301       | 266,371       | 714  | 2,542       | 201,593       |
| October   | 78   | 305         | 24,869        | 50   | 173         | 12,696        |
| November  | 79   | 303         | 24,355        | 56   | 201         | 14,879        |
| December  | 76   | 291         | 23,765        | 58   | 195         | 14,704        |
| January   | 66   | 254         | 21,396        | 65   | 185         | 14,121        |
| February  | 69   | 266         | 22,070        | 55   | 187         | 14,764        |
| March     | 75   | 279         | 23,021        | 54   | 179         | 14,419        |
| April     | 79   | 290         | 23,447        | 55   | 183         | 15,374        |
| May       | 73   | 255         | 19,967        | 62   | 219         | 17,748        |
| June      | 78   | 264         | 21,197        | 63   | 231         | 17,924        |
| July      | 73   | 264         | 20,681        | 70   | 259         | 20,826        |
| August    | 73   | 261         | 20,258        | 68   | 265         | 21,315        |
| September | 75   | 269         | 21,345        | 58   | 265         | 22,823        |

Source: Nutrition Assistance Program, Department of Community and Cultural Affairs

**Nutritional Assistance in Tinian**

As with Saipan and Rota, the number of Nutritional Assistance recipients increased between 1999 and 2000.

**Table 5.29 NAP Actual Participation in Tinian by Month: FY 1999 and FY 2000**

| Month     | 2000 |             |               | 1999 |             |               |
|-----------|------|-------------|---------------|------|-------------|---------------|
|           | HH   | Individuals | Benefits (\$) | HH   | Individuals | Benefits (\$) |
| Total     | 603  | 2,157       | 183,728       | 378  | 1,411       | 110,493       |
| October   | 41   | 149         | 12,049        | 19   | 60          | 4,402         |
| November  | 43   | 161         | 13,044        | 24   | 86          | 6,411         |
| December  | 42   | 154         | 12,868        | 28   | 100         | 7,535         |
| January   | 41   | 149         | 12,718        | 28   | 107         | 7,984         |
| February  | 45   | 171         | 14,713        | 26   | 95          | 7,092         |
| March     | 51   | 196         | 16,714        | 29   | 99          | 7,741         |
| April     | 53   | 191         | 17,097        | 30   | 119         | 9,223         |
| May       | 56   | 198         | 17,321        | 37   | 148         | 11,534        |
| June      | 59   | 210         | 17,624        | 39   | 160         | 12,974        |
| July      | 58   | 195         | 16,372        | 40   | 147         | 12,164        |
| August    | 59   | 201         | 17,590        | 39   | 145         | 11,671        |
| September | 55   | 182         | 15,618        | 39   | 145         | 11,762        |

Source: Nutrition Assistance Program, Department of Community and Cultural Affairs

**Table 5.30 NAP Actual Participation in the N. Islands by Month: FY 1999 and FY 2000**

| Month     | 2000 |             |               | 1999 |             |               |
|-----------|------|-------------|---------------|------|-------------|---------------|
|           | HH   | Individuals | Benefits (\$) | HH   | Individuals | Benefits (\$) |
| Total     | 0    | 0           | 0             | 8    | 12          | 1,504         |
| October   | 0    | 0           | 0             | 1    | 1           | 133           |
| November  | 0    | 0           | 0             | 1    | 2           | 243           |
| December  | 0    | 0           | 0             | 1    | 2           | 243           |
| January   | 0    | 0           | 0             | 1    | 1           | 133           |
| February  | 0    | 0           | 0             | 1    | 1           | 133           |
| March     | 0    | 0           | 0             | 1    | 1           | 133           |
| April     | 0    | 0           | 0             | 1    | 2           | 243           |
| May       | 0    | 0           | 0             | 1    | 2           | 243           |
| June      | 0    | 0           | 0             | 0    | 0           | 0             |
| July      | 0    | 0           | 0             | 0    | 0           | 0             |
| August    | 0    | 0           | 0             | 0    | 0           | 0             |
| September | 0    | 0           | 0             | 0    | 0           | 0             |

Source: Nutrition Assistance Program, Department of Community and Cultural Affairs

**Nutritional Assistance in N.I.**

Only 12 persons received Nutritional Assistance in the Northern Islands in 1999. Data for 2000 were not available for this pressing.

**Table 5.31 NAP Actual Participation by Ethnicity: FY 2000**

| Ethnicity  | Monthly Average Number of |         |               | Percent    |         |          |
|------------|---------------------------|---------|---------------|------------|---------|----------|
|            | Households                | Persons | Benefits (\$) | Households | Persons | Benefits |
| Total      | 19,108                    | 62,652  | 4,786,456     | 100.0      | 100.0   | 100.0    |
| Chamorro   | 8,451                     | 33,007  | 2,597,187     | 44.2       | 52.7    | 54.3     |
| Carolinian | 3,256                     | 13,229  | 1,066,027     | 17.0       | 21.1    | 22.3     |
| Chuukese   | 1,340                     | 3,617   | 278,546       | 7.0        | 5.8     | 5.8      |
| Palauan    | 1,096                     | 3,475   | 272,407       | 5.7        | 5.5     | 5.7      |
| Pohnpeian  | 317                       | 814     | 62,115        | 1.7        | 1.3     | 1.3      |
| Yapese     | 100                       | 293     | 26,417        | 0.5        | 0.5     | 0.6      |
| Filipino   | 4,224                     | 7,586   | 438,708       | 22.1       | 12.1    | 9.2      |
| Others     | 324                       | 631     | 45,049        | 1.7        | 1.0     | 0.9      |

Source: NAP, Department of Community and Cultural Affairs

**CNMI Nutritional Assistance by Ethnicity in FY 2000**

Approximately 75% of Nutritional Assistance recipients in FY 2000 were Chamorro and Carolinian. The proportion of Filipinos receiving benefits increased from 9.6% in FY 1999 to 12.1% in FY 2000.

### **CNMI Nutritional Assistance by Ethnicity in 1999**

Data provided by the Nutritional Assistance Program (NAP) indicate that 75% of individuals receiving benefits were Chamorro or Carolinian in FY 1999.

**Table 5.32 NAP Actual Participation by Ethnicity: FY 1999**

| Ethnicity  | Monthly Average Number of |         |               | Percent    |         |          |
|------------|---------------------------|---------|---------------|------------|---------|----------|
|            | Households                | Persons | Benefits (\$) | Households | Persons | Benefits |
| Total      | 1,311                     | 4,423   | 2,982,292     | 100.0      | 100.0   | 100.0    |
| Chamorro   | 594                       | 2,314   | 1,350,328     | 45.3       | 52.3    | 45.3     |
| Carolinian | 247                       | 995     | 616,254       | 18.8       | 22.5    | 20.7     |
| Chuukese   | 96                        | 253     | 355,666       | 7.3        | 5.7     | 11.9     |
| Palauan    | 92                        | 290     | 312,540       | 7.0        | 6.6     | 10.5     |
| Pohnpeian  | 26                        | 68      | 65,382        | 2.0        | 1.5     | 2.2      |
| Yapese     | 6                         | 21      | 21,937        | 0.5        | 0.5     | 0.7      |
| Filipino   | 221                       | 423     | 223,118       | 16.9       | 9.6     | 7.5      |
| Others     | 29                        | 59      | 37,067        | 2.2        | 1.3     | 1.2      |

Source: NAP, Department of Community and Cultural Affairs

### **CNMI Nutritional Assistance Over Time**

NAP data show an increase in the number of assistance recipients between 1997 and 2000.

**Table 5.33 NAP Actual Participants by Ethnicity in CNMI: FY1997 to FY2000**

| Ethnicity  | Households |      |      |      | Participants |       |       |       |
|------------|------------|------|------|------|--------------|-------|-------|-------|
|            | 2000       | 1999 | 1998 | 1997 | 2000         | 1999  | 1998  | 1997  |
| Average    | 199        | 164  | 112  | 110  | 653          | 553   | 418   | 399   |
| Chamorro   | 704        | 594  | 418  | 389  | 2,751        | 2,314 | 1,509 | 1,615 |
| Carolinian | 271        | 247  | 167  | 149  | 1,102        | 995   | 666   | 710   |
| Chuukese   | 112        | 96   | 84   | 90   | 301          | 253   | 411   | 270   |
| Palauan    | 91         | 92   | 75   | 84   | 290          | 290   | 326   | 243   |
| Pohnpeian  | 26         | 26   | 20   | 17   | 68           | 68    | 73    | 53    |
| Yapese     | 8          | 6    | 6    | 6    | 24           | 21    | 24    | 18    |
| Filipino   | 352        | 221  | 112  | 134  | 632          | 423   | 295   | 240   |
| Others     | 27         | 29   | 15   | 12   | 53           | 59    | 42    | 45    |

Source: NAP Annual Report

Chapter 6  
ACCIDENTS AND  
OFFENSES

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## **Summary of Accidents and Offenses**

This chapter presents data adult and juvenile criminal offenses as well as the number of traffic accidents occurring each month in the CNMI. Results indicate that the total number of adult criminal offenses committed has substantially increased over the past decade. The number of offenses committed by juveniles escalated between 1995 and 1997, but has since declined. The majority of juvenile offenses for 1997 were curfew violations, assaults/battery, liquor consumption, theft, disturbing the peace, burglary, and controlled substance.

The number of DUI (Driving Under Influence) arrests has fluctuated over time as well. Males continue to constitute the vast majority (98%) of total DUI arrests. In 2000, the following ethnic groups comprised a majority of all DUI arrests: Filipinos, Chamorros, and Palauans. The proportion of DUI arrests issued to these groups has remained relatively constant over the past five years.

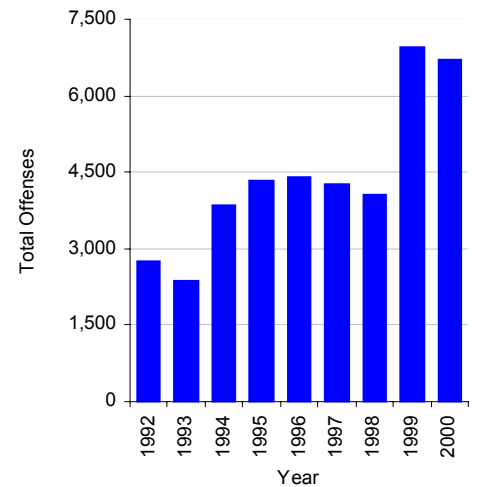
The total number of traffic accidents has fluctuated over time but remained higher in 1999 than five years earlier. The number of accidents was at its lowest in 1997.

**Table 6.1 Selected Type of Offenses, Saipan: 1991 to 2000**

| Year | Total | Type of Offense |      |         |         |          |         |            |       |       |
|------|-------|-----------------|------|---------|---------|----------|---------|------------|-------|-------|
|      |       | Homicide        | Rape | Robbery | Assault | Burglary | Larceny | Auto Theft | Arson | Other |
| 2000 | 6,682 | 3               | 14   | 57      | 1,350   | 883      | 1,815   | 59         | 17    | 2,484 |
| 1999 | 6,933 | 2               | 4    | 58      | 1,291   | 1,011    | 2,037   | 56         | 10    | 2,464 |
| 1998 | 4,067 | 2               | 9    | 53      | 1,343   | 817      | 1,767   | 68         | 8     | ...   |
| 1997 | 4,282 | 3               | 8    | 25      | 1,485   | 868      | 1,772   | 108        | 13    | ...   |
| 1996 | 4,397 | 5               | 5    | 17      | 1,463   | 945      | 1,935   | 11         | 16    | ...   |
| 1995 | 4,337 | 10              | 11   | 17      | 1,585   | 1,250    | 1,411   | 42         | 11    | ...   |
| 1994 | 3,861 | 4               | 3    | 17      | 620     | 1,009    | 2,097   | 111        | 0     | ...   |
| 1993 | 2,368 | 5               | 4    | 23      | 661     | 735      | 859     | 76         | 0     | 5     |
| 1992 | 2,740 | 3               | 2    | 14      | 947     | 104      | 1,525   | 96         | 0     | 49    |
| 1991 | 2,058 | 0               | 5    | 31      | 743     | 460      | 713     | 99         | 0     | 7     |

Source: Criminal Justice Planning Agency

**Figure 6.1 Number of Offenses: Saipan, 1992 to 2000**



**Table 6.2 Type and Number of Juvenile Arrests, CNMI: 1995 to 2000**

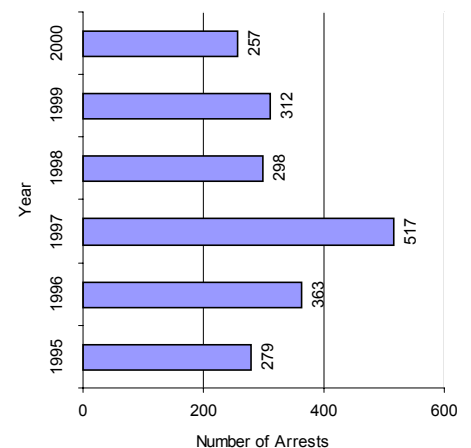
| Type of Arrest         | Year |      |      |      |      |      |
|------------------------|------|------|------|------|------|------|
|                        | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 |
| Total                  | 257  | 312  | 298  | 517  | 363  | 279  |
| Homicide               | 0    | 0    | 3    | 0    | 2    | 0    |
| Robbery                | 2    | 11   | 2    | 5    | 5    | 4    |
| Assault/battery        | 38   | 24   | 16   | 73   | 47   | 65   |
| Burglary               | 7    | 20   | 18   | 38   | 32   | 21   |
| Theft                  | 33   | 50   | 61   | 50   | 31   | 32   |
| Auto theft             | 1    | 3    | 7    | 23   | 21   | 4    |
| Arson                  | 1    | 4    | 1    | 0    | 0    | 0    |
| Disturbing the peace   | 25   | 18   | 37   | 40   | 16   | 23   |
| Criminal mischief      | 12   | 18   | 17   | 21   | 29   | 22   |
| Controlled substance   | 40   | 64   | 24   | 25   | 21   | 23   |
| Possession of firearms | 0    | 2    | 0    | 0    | 1    | 0    |
| Criminal trespass      | 4    | 2    | 8    | 3    | 0    | 9    |
| Other                  | 17   | 13   | 27   | 70   | 28   | 26   |
| Traffic                | 14   | 9    | 5    | 4    | 7    | 7    |
| Truancy                | 4    | 14   | 8    | 5    | 3    | 3    |
| Liquor consumption     | 32   | 41   | 28   | 71   | 84   | 28   |
| Curfew violations      | 19   | 17   | 34   | 75   | 24   | 11   |
| Tobacco                | 8    | 2    | 1    | 14   | 6    | 1    |
| Runaway                | 0    | 0    | 1    | 0    | 6    | 0    |

Source: Criminal Justice Planning Agency and Criminal Justice Information Systems

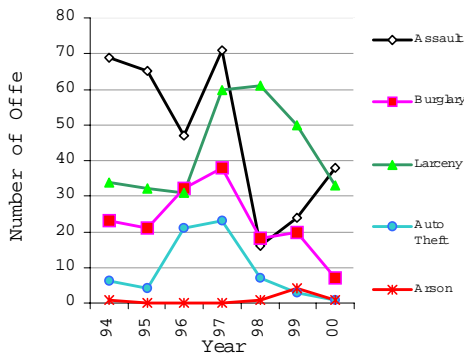
**Total number of Juvenile Criminal Arrests**

The total number of juvenile arrests declined in 1998, but increased again in 1999. The majority of juvenile arrests were for assault/battery, liquor consumption, theft, disturbing the peace, burglaries, and possession of controlled substances.

**Figure 6.2 Total Number of Juvenile Criminal Arrests in the CNMI: 1995 to 2000**



**Figure 6.3** Trend of Selected Type of Juvenile Criminal Offenses in the CNMI, 1994 to 2000



**Table 6.3** Number of Violent and Property Crimes of Juvenile Offenses, CNMI: 1986 to 2000

| Year | Total | Type of Offense |      |         |         |          |         |            |       |
|------|-------|-----------------|------|---------|---------|----------|---------|------------|-------|
|      |       | Homicide        | Rape | Robbery | Assault | Burglary | Larceny | Auto Theft | Arson |
| 2000 | 82    | 0               | 0    | 2       | 38      | 7        | 33      | 1          | 1     |
| 1999 | 112   | 0               | 0    | 11      | 24      | 20       | 50      | 3          | 4     |
| 1998 | 109   | 3               | 1    | 2       | 16      | 18       | 61      | 7          | 1     |
| 1997 | 197   | 0               | 0    | 5       | 71      | 38       | 60      | 23         | 0     |
| 1996 | 138   | 2               | 0    | 5       | 47      | 32       | 31      | 21         | 0     |
| 1995 | 126   | 0               | 0    | 4       | 65      | 21       | 32      | 4          | 0     |
| 1994 | 139   | 0               | 0    | 6       | 69      | 23       | 34      | 6          | 1     |
| 1993 | 109   | 0               | 0    | 3       | 45      | 29       | 24      | 8          | 0     |
| 1992 | 130   | 2               | 0    | 1       | 49      | 39       | 28      | 11         | 0     |
| 1991 | 164   | 0               | 0    | 14      | 49      | 55       | 31      | 15         | 0     |
| 1990 | 67    | 0               | 0    | 0       | 34      | 11       | 19      | 3          | 0     |
| 1989 | 165   | 0               | 1    | 2       | 46      | 52       | 44      | 18         | 2     |
| 1988 | 201   | 0               | 1    | 1       | 16      | 132      | 39      | 11         | 1     |
| 1987 | 151   | 1               | 0    | 0       | 29      | 75       | 35      | 11         | 0     |
| 1986 | 163   | 1               | 0    | 0       | 43      | 44       | 48      | 26         | 1     |

Source: Criminal Justice Planning Agency

**Total Number of DUI Arrests**

The number of DUI arrests substantially decreased from 1998 to 1999 but rose again the following year. Males continue to constitute the vast majority of total DUI arrests. The top three ethnic groups comprising the majority of DUI arrests were Filipino (31%), Chamorro (17%) and Palauans (14%).

**Table 6.4** DUI Arrests by Ethnicity and Sex, Saipan : 1998 to 2000

| Ethnicity   | 2000  |      |        | 1999  |      |        | 1998  |      |        |
|-------------|-------|------|--------|-------|------|--------|-------|------|--------|
|             | Total | Male | Female | Total | Male | Female | Total | Male | Female |
| Total       | 375   | 363  | 12     | 265   | 260  | 5      | 410   | 403  | 7      |
| American    | 9     | 9    | 0      | 8     | 8    | 0      | 16    | 16   | 0      |
| Bangladeshi | 8     | 8    | 0      | ...   | ...  | ...    | ...   | ...  | ...    |
| Carolinian  | 21    | 17   | 4      | 30    | 28   | 2      | 33    | 32   | 1      |
| Chamorro    | 64    | 61   | 3      | 54    | 53   | 1      | 62    | 58   | 4      |
| Chinese     | 26    | 26   | 0      | 16    | 16   | 0      | 26    | 26   | 0      |
| Chuukese    | 30    | 30   | 0      | 25    | 25   | 0      | 31    | 31   | 0      |
| Filipino    | 118   | 117  | 1      | 75    | 74   | 1      | 118   | 116  | 2      |
| Hispanic    | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      |
| Indian      | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      |
| Japanese    | 12    | 10   | 2      | 3     | 3    | 0      | 7     | 7    | 0      |
| Korean      | 22    | 22   | 0      | 19    | 19   | 0      | 41    | 41   | 0      |
| Kosraen     | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      |
| Marshallese | 0     | 0    | 0      | 2     | 2    | 0      | 0     | 0    | 0      |
| Nauruan     | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      |
| Nepalese    | 1     | 1    | 0      | 0     | 0    | 0      | 1     | 1    | 0      |
| New Zealand | 0     | 0    | 0      | 0     | 0    | 0      | 0     | 0    | 0      |
| Palauan     | 52    | 50   | 2      | 23    | 22   | 1      | 52    | 52   | 0      |
| Pohnpeian   | 6     | 6    | 0      | 9     | 9    | 0      | 16    | 16   | 0      |
| Polynesian  | 1     | 1    | 0      | 0     | 0    | 0      | 3     | 3    | 0      |
| Thai        | 3     | 3    | 0      | 0     | 0    | 0      | 2     | 2    | 0      |
| Yapese      | 2     | 2    | 0      | 1     | 1    | 0      | 2     | 2    | 0      |

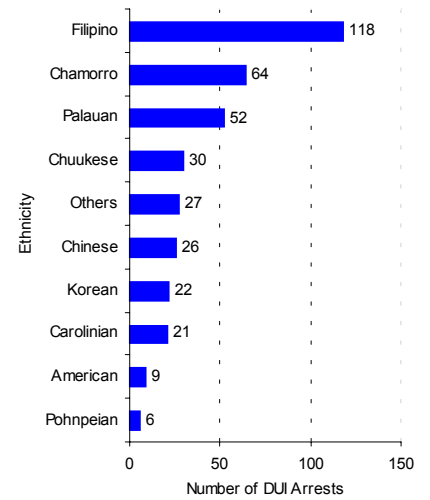
Source: Office of Highway Safety, Department of Public Safety

**Table 6.5 DUI Arrests by Ethnicity and Month, Saipan: 2000**

| Ethnicity   | Total | Month |     |     |     |     |     |     |     |     |     |     |     |
|-------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|             |       | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Total       | 375   | 27    | 25  | 36  | 32  | 35  | 27  | 33  | 34  | 34  | 33  | 20  | 39  |
| American    | 9     | 0     | 2   | 0   | 1   | 0   | 0   | 4   | 1   | 0   | 0   | 1   | 0   |
| Bangladeshi | 8     | 3     | 0   | 1   | 0   | 1   | 1   | 0   | 0   | 0   | 1   | 0   | 1   |
| Carolinian  | 21    | 2     | 0   | 3   | 1   | 1   | 2   | 2   | 3   | 1   | 2   | 1   | 3   |
| Chamorro    | 64    | 7     | 5   | 5   | 2   | 8   | 2   | 7   | 9   | 5   | 4   | 3   | 7   |
| Chinese     | 26    | 2     | 3   | 3   | 3   | 2   | 0   | 1   | 3   | 4   | 1   | 2   | 2   |
| Chuukese    | 30    | 1     | 0   | 1   | 3   | 3   | 2   | 3   | 4   | 5   | 4   | 1   | 3   |
| Filipino    | 118   | 8     | 8   | 14  | 15  | 13  | 7   | 5   | 8   | 8   | 15  | 5   | 12  |
| Japanese    | 12    | 0     | 1   | 1   | 0   | 3   | 0   | 0   | 1   | 1   | 1   | 2   | 2   |
| Korean      | 22    | 1     | 3   | 1   | 1   | 1   | 4   | 5   | 1   | 3   | 0   | 1   | 1   |
| Marshallese | 0     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Nepal       | 1     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   |
| Palauan     | 52    | 3     | 2   | 6   | 5   | 2   | 8   | 6   | 3   | 5   | 3   | 3   | 6   |
| Pohnpeian   | 6     | 0     | 1   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 2   | 0   | 2   |
| Polynesian  | 0     | 0     | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Thaiand     | 3     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 1   | 0   |
| Yapese      | 2     | 0     | 0   | 1   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

Source: Office of Highway Safety, Department of Public Safety

**Figure 6.4 Percent Distribution Total DUI Arrest by Ethnicity in Saipan, 2000**



**Table 6.6 DUI Arrests by Ethnicity and Month, Saipan: 1999**

| Ethnicity   | Total | Month |     |     |     |     |     |     |     |     |     |     |     |
|-------------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|             |       | Jan   | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
| Total       | 265   | 22    | 18  | 16  | 19  | 13  | 10  | 14  | 18  | 23  | 38  | 41  | 33  |
| American    | 8     | 0     | 0   | 0   | 0   | 0   | 1   | 0   | 3   | 2   | 0   | 2   | 0   |
| Carolinian  | 30    | 1     | 1   | 2   | 2   | 1   | 3   | 0   | 2   | 2   | 9   | 4   | 3   |
| Chamorro    | 54    | 5     | 4   | 1   | 2   | 6   | 0   | 4   | 1   | 7   | 10  | 7   | 7   |
| Chinese     | 16    | 2     | 3   | 3   | 1   | 1   | 1   | 0   | 0   | 3   | 1   | 1   | 0   |
| Chuukese    | 25    | 4     | 3   | 2   | 3   | 0   | 2   | 0   | 2   | 1   | 2   | 5   | 1   |
| Filipino    | 75    | 6     | 5   | 5   | 6   | 2   | 2   | 3   | 5   | 4   | 11  | 13  | 13  |
| Japanese    | 3     | 0     | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 1   | 0   | 1   | 0   |
| Korean      | 19    | 3     | 1   | 3   | 1   | 1   | 0   | 1   | 2   | 1   | 1   | 4   | 1   |
| Marshallese | 2     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   |
| Palauan     | 23    | 0     | 1   | 0   | 3   | 0   | 1   | 5   | 1   | 1   | 3   | 3   | 5   |
| Pohnpeian   | 9     | 1     | 0   | 0   | 1   | 2   | 0   | 0   | 2   | 1   | 0   | 1   | 1   |
| Yapese      | 1     | 0     | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |

Source: Office of Highway Safety, Department of Public Safety

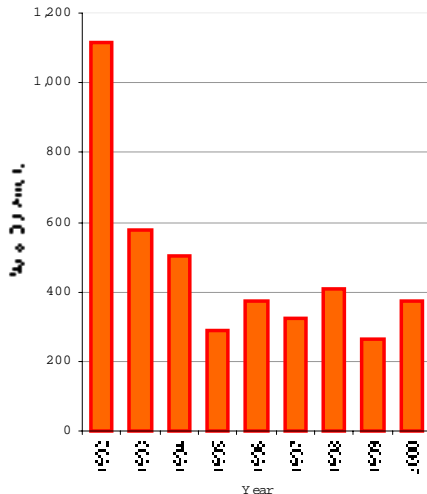
**DUI Arrests By Month**

There appears to be no pattern of DUI arrests by month, according to data provided by the Department of Public Safety.

### DUI Arrests By Ethnicity

The proportion of DUI arrests issued to Filipinos, Chamorros and Palauans has remained constant over time. The three ethnic groups constitute a majority of all DUI arrests.

**Figure 6.5** Total Number of DUI Arrests: 1992 to 2000



### DUI Arrests By Month

DUI arrests have increased somewhat between 1995 and 2000. According to data provided by the Department of Public Safety for 2000, there does not appear to be a pattern across seasons, as the number of arrests fluctuated from month to month.

**Table 6.7** DUI Arrests by Ethnicity, Saipan : 1995 to 2000

| Ethnicity   | Year |      |      |      |      |      |
|-------------|------|------|------|------|------|------|
|             | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 |
| Total       | 375  | 265  | 408  | 324  | 372  | 291  |
| American    | 9    | 8    | 16   | 9    | 12   | 7    |
| Bangladeshi | 8    | ...  | ...  | ...  | ...  | ...  |
| Carolinian  | 21   | 30   | 33   | 19   | 26   | 20   |
| Chamorro    | 64   | 54   | 62   | 39   | 61   | 53   |
| Chinese     | 26   | 16   | 26   | 17   | 11   | 6    |
| Chuukese    | 30   | 25   | 31   | 30   | 27   | 17   |
| Fijian      | 0    | 0    | 0    | 0    | 0    | 1    |
| Filipino    | 118  | 75   | 118  | 89   | 109  | 85   |
| Hispanic    | 0    | 0    | 0    | 2    | 0    | 0    |
| Indian      | 0    | 0    | 0    | 1    | 0    | 0    |
| Japanese    | 12   | 3    | 7    | 8    | 5    | 10   |
| Korean      | 22   | 19   | 41   | 53   | 47   | 31   |
| Kosraean    | 0    | 0    | 0    | 0    | 3    | 2    |
| Marshallese | 0    | 2    | 0    | 0    | 0    | 0    |
| Naunuan     | 0    | 0    | 0    | 1    | 0    | 0    |
| Nepal       | 1    | 0    | 1    | 3    | 0    | 0    |
| New Zealand | 0    | 0    | 0    | 1    | 0    | 0    |
| Palauan     | 52   | 23   | 52   | 36   | 52   | 45   |
| Pohnpeian   | 6    | 9    | 16   | 15   | 17   | 7    |
| Polynesian  | 1    | 0    | 3    | 0    | 0    | 1    |
| Portugese   | 0    | 0    | 0    | 0    | 0    | 1    |
| Sam oan     | 0    | 0    | 0    | 0    | 0    | 5    |
| Thai        | 3    | 0    | 2    | 1    | 2    | 0    |
| Yapese      | 2    | 1    | 0    | 0    | 0    | 0    |

Source: Office of Highway Safety, Department of Public Safety

**Table 6.8** DUI Arrest by Month, CNMI : 1995 to 2000

| Offense   | Year |      |      |      |      |      |
|-----------|------|------|------|------|------|------|
|           | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 |
| Total     | 375  | 359  | 521  | 377  | 483  | 345  |
| January   | 27   | 23   | 36   | 23   | 42   | 53   |
| February  | 25   | 18   | 43   | 14   | 32   | 34   |
| March     | 36   | 22   | 82   | 46   | 32   | 22   |
| April     | 32   | 35   | 54   | 29   | 26   | 24   |
| May       | 35   | 24   | 39   | 11   | 46   | 38   |
| June      | 27   | 16   | 41   | 23   | 35   | 25   |
| July      | 33   | 21   | 43   | 23   | 41   | 20   |
| August    | 34   | 23   | 34   | 42   | 40   | 21   |
| September | 34   | 34   | 32   | 32   | 45   | 17   |
| October   | 33   | 47   | 35   | 29   | 28   | 22   |
| November  | 20   | 51   | 43   | 38   | 29   | 31   |
| December  | 39   | 45   | 39   | 67   | 87   | 38   |

Source: Traffic Division, Department of Public Safety

**Table 6.9 Number of Traffic Accidents by Month: 1995 to 1999**

| Offense   | Year  |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|
|           | 1999  | 1998  | 1997  | 1996  | 1995  |
| Total     | 2,491 | 2,544 | 1,235 | 2,249 | 2,150 |
| January   | 204   | 234   | 97    | 200   | 191   |
| February  | 260   | 240   | 116   | 167   | 159   |
| March     | 268   | 223   | 133   | 141   | 165   |
| April     | 244   | 204   | 109   | 115   | 207   |
| May       | 176   | 319   | 151   | 216   | 189   |
| June      | 194   | 248   | 93    | 166   | 145   |
| July      | 168   | 271   | 109   | 173   | 236   |
| August    | 194   | 145   | 73    | 135   | 125   |
| September | 201   | 141   | 123   | 203   | 135   |
| October   | 239   | 93    | 129   | 219   | 211   |
| November  | 181   | 153   | 14    | 251   | 224   |
| December  | 162   | 273   | 88    | 263   | 163   |

Source: Criminal Justice Planning Agency

**Total Number of Traffic Accidents**

The total number of traffic accidents rose and fell between the years 1995 and 1999, dropping dramatically in 1997.

Chapter 7  
VOTERS AND  
ELECTIONS

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## Summary of Voters and Elections

The total number of registered voters in the Commonwealth increased from 11,114 in 1995 to 14,329 in 1999. By election district, District 1 had the highest number of registered voters (38%), followed by District 3 (22%), District 4 (16%), District 6 (9%), District 2 (8%), and District 5 (7%). The number of voters in each district however, reflects the population size of villages within the district, rather than the likelihood of residents to vote.

The total number of registered voters who actually voted increased between 1995 and 1997 but later declined in 1999. A much higher percentage (91.8%) of registered voters voted in 1997 compared to 1995 (75.2%) and 1999 (78.1%).

Although the total number of males voting was higher than females in 1995, 1997, and 1999, voting patterns between men and women were nearly identical. Registered male and female voters were most likely to vote in 1997 election and the number of voter registrations among men and women has increased over time. It is important to note that data do not indicate the likelihood of all men or women voting, however, since there may simply be more men than women in a given precinct. Registered female voter were actually somewhat more likely than male registered voters to vote in all three elections.

In 1999, 18-26 years old comprised the largest number of total registered voters however, since data are not available on the pool of eligible voters we cannot conclude this age group was most likely to vote.

By far, Chamorro's were the largest single ethnic group among voter registrations and the number of voters who actually exercised their right to vote followed by Carolinians, Americans and other US citizens who were, Filipinos, and Palauan's.

However, only data on the count of individual voters are presented in this chapter and data are not available on the likelihood of a particular group voting.



**Table 7.1 Number of Registered Voters in 1995, 1997 and 1999:**  
Election Precinct by Election Year

| Election District     | Election Year |        |        | Percent change |       |
|-----------------------|---------------|--------|--------|----------------|-------|
|                       | 1999          | 1997   | 1995   | 99-97          | 97-95 |
| All Registered Voters | 14,329        | 13,384 | 11,114 | 7.1            | 20.4  |
| District 1            | 5,358         | 4,946  | 3,639  | 8.3            | 35.9  |
| San Antonio           | 858           | 831    | 805    | 3.2            | 3.2   |
| San Vicente           | 2,904         | 2,753  | 2,187  | 5.5            | 25.9  |
| Koblerville           | 891           | 1,362  | 647    | -34.6          | 110.5 |
| Kagman                | 705           | ...    | ...    | ...            | ...   |
| District 2            | 1,075         | 1,032  | 1,041  | 4.2            | -0.9  |
| Chalan Kanoa          | 1,075         | 771    | 823    | 39.4           | -6.3  |
| Susupe                | ...           | 261    | 218    | ...            | 19.7  |
| District 3            | 3,219         | 2,980  | 2,788  | 8.0            | 6.9   |
| San Jose              | 955           | 895    | 833    | 6.7            | 7.4   |
| Garapan               | 2,239         | 2,045  | 1,917  | 9.5            | 6.7   |
| Northern Is.          | 25            | 40     | 38     | -37.5          | 5.3   |
| District 4            | 2,336         | 2,235  | 1,720  | 4.5            | 29.9  |
| Tanapag               | 617           | 589    | 513    | 4.8            | 14.8  |
| San Roque             | 504           | 466    | 345    | 8.2            | 35.1  |
| Capitol Hill          | 1,215         | 1,180  | 862    | 3.0            | 36.9  |
| District 5            | 1,047         | 929    | 781    | 12.7           | 19.0  |
| Tinian                | 1,047         | 929    | 781    | 12.7           | 19.0  |
| District 6            | 1,294         | 1,262  | 1,145  | 2.5            | 10.2  |
| Rota                  | 1,294         | 1,262  | 1,145  | 2.5            | 10.2  |

Source: Election Commission

Note: Polling places indicate villages. Since 1999 some villages are combined to reflect only election district.

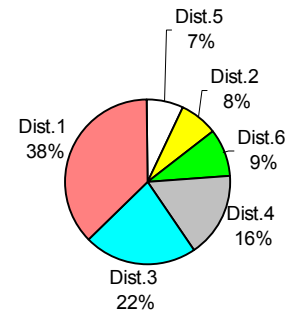
**Table 7.2 Number of Registered Voters Who Voted in 1995, 1997 and 1999:**  
Election Precinct by Election Year

| Election District | Election Year |        |       | Percent change |       |
|-------------------|---------------|--------|-------|----------------|-------|
|                   | 1999          | 1997   | 1995  | 99-97          | 97-95 |
| Total Voted       | 11,191        | 12,289 | 8,362 | -8.9           | 47.0  |
| District 1        | 4,100         | 4,489  | 2,672 | -8.7           | 68.0  |
| San Antonio       | 674           | 769    | 593   | -12.4          | 29.7  |
| San Vicente       | 2,182         | 2,499  | 1,589 | -12.7          | 57.3  |
| Koblerville       | 695           | 1,221  | 490   | -43.1          | 149.2 |
| Kagman            | 549           | -      | -     | -              | -     |
| District 2        | 868           | 966    | 766   | -10.1          | 26.1  |
| Chalan Kanoa      | 868           | 719    | 606   | 20.7           | 18.6  |
| Susupe            | ...           | 247    | 160   | ...            | 54.4  |
| District 3        | 2,416         | 2,731  | 2,004 | -11.5          | 36.3  |
| San Jose          | 785           | 836    | 648   | -6.1           | 29.0  |
| Garapan           | 1,618         | 1,855  | 1,326 | -12.8          | 39.9  |
| Northern Is.      | 13            | 40     | 30    | -67.5          | 33.3  |
| District 4        | 1,777         | 2,016  | 1,359 | -11.9          | 48.3  |
| Tanapag           | 517           | 545    | 413   | -5.1           | 32.0  |
| San Roque         | 420           | 434    | 281   | -3.2           | 54.4  |
| Capitol Hill      | 840           | 1,037  | 665   | -19.0          | 55.9  |
| District 5        | 918           | 876    | 645   | 4.8            | 35.8  |
| Tinian            | 918           | 876    | 645   | 4.8            | 35.8  |
| District 6        | 1,112         | 1,211  | 916   | -8.2           | 32.2  |
| Rota              | 1,112         | 1,211  | 916   | -8.2           | 32.2  |

Source: Election Commission

Note: Polling places indicate villages. Since 1999 some villages are combined to reflect only election district.

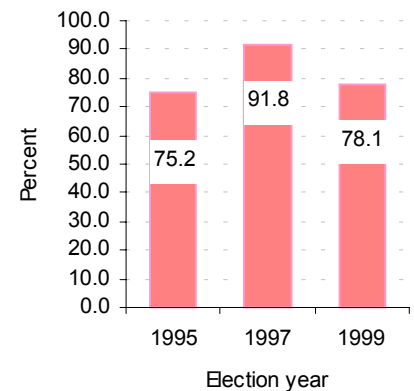
**Figure 7.1 Percent Distribution of Registered Voters by Election Precinct, 1999**



**Voting Eligibility**

Eligible voters must be US citizens, at least 18 years of age and have resided in the CNMI for 120 or more days. District 1 shows a higher number of registered voters since the demarcated district includes four villages as compared to other districts with smaller populations.

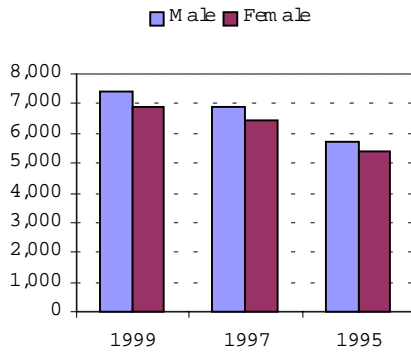
**Figure 7.2 Percentage of Registered Voters Who Voted, 1995 to 1999**



**Number of Registered Male Voters**

The number of males registering to vote increased steadily between 1995 and 1999.

**Figure 7.3** Number of Registered Voters by Election Year and Sex, 1995 to 1999



**Male Voters who Voted**

The proportion of registered male voters who voted in the past three CNMI elections was highest in 1997, when 91% of this population voted.

**Table 7.3** Number of Male Registered Voters in 1995, 1997 and 1999: Election Precinct by Election Year

| Election District      | Election Year |       |       | Percent change |       |
|------------------------|---------------|-------|-------|----------------|-------|
|                        | 1999          | 1997  | 1995  | 99-97          | 97-95 |
| Registered Male Voters | 7,412         | 6,918 | 5,747 | 7.1            | 20.4  |
| District 1             | 2,754         | 2,537 | 1,875 | 8.6            | 35.3  |
| San Antonio            | 460           | 434   | 431   | 6.0            | 0.7   |
| San Vicente            | 1,479         | 1,400 | 1,130 | 5.6            | 23.9  |
| Koblerville            | 444           | 703   | 314   | -36.8          | 123.9 |
| Kagman                 | 371           | -     | -     | -              | -     |
| District 2             | 575           | 552   | 529   | 4.2            | 4.3   |
| Chalan Kanoa           | 575           | 403   | 413   | 42.7           | -2.4  |
| Susupe                 | ...           | 149   | 116   | ...            | 28.4  |
| District 3             | 1,645         | 1,498 | 1,407 | 9.8            | 6.5   |
| San Jose               | 494           | 441   | 408   | 12.0           | 8.1   |
| Garapan                | 1,138         | 1,035 | 979   | 10.0           | 5.7   |
| Northern Is.           | 13            | 22    | 20    | -40.9          | 10.0  |
| District 4             | 1,199         | 1,166 | 909   | 2.8            | 28.3  |
| Tanapag                | 321           | 318   | 270   | 0.9            | 17.8  |
| San Roque              | 257           | 245   | 183   | 4.9            | 33.9  |
| Capital Hill           | 621           | 603   | 456   | 3.0            | 32.2  |
| District 5             | 556           | 489   | 423   | 13.7           | 15.6  |
| Tinian                 | 556           | 489   | 423   | 13.7           | 15.6  |
| District 6             | 683           | 676   | 604   | 1.0            | 11.9  |
| Rota                   | 683           | 676   | 604   | 1.0            | 11.9  |

Source: Election Commission

Note: Polling places indicate villages. Since 1999 some villages are combined to reflect only election district.

**Table 7.4** Number of Male Registered Voters Who Voted in 1995, 1997 and 1999: Election Precinct by Election Year

| Election District | Election Year |       |       | Percent change |       |
|-------------------|---------------|-------|-------|----------------|-------|
|                   | 1999          | 1997  | 1995  | 99-97          | 97-95 |
| All Voting Males  | 5,728         | 6,312 | 4,229 | -9.3           | 49.3  |
| District 1        | 2,096         | 2,292 | 1,356 | -8.6           | 69.0  |
| San Antonio       | 363           | 401   | 306   | -9.5           | 31.0  |
| San Vicente       | 1,102         | 1,263 | 813   | -12.7          | 55.4  |
| Koblerville       | 345           | 628   | 237   | -45.1          | 165.0 |
| Kagman            | 286           | -     | -     | -              | -     |
| District 2        | 461           | 512   | 376   | -10.0          | 36.2  |
| Chalan Kanoa      | 461           | 375   | 294   | 22.9           | 27.6  |
| Susupe            | ...           | 137   | 82    | ...            | 67.1  |
| District 3        | 1,202         | 1,353 | 978   | -11.2          | 38.3  |
| San Jose          | 402           | 412   | 312   | -2.4           | 32.1  |
| Garapan           | 795           | 919   | 650   | -13.5          | 41.4  |
| Northern Is.      | 5             | 22    | 16    | -77.3          | 37.5  |
| District 4        | 907           | 1,047 | 700   | -13.4          | 49.6  |
| Tanapag           | 263           | 294   | 211   | -10.5          | 39.3  |
| San Roque         | 217           | 228   | 145   | -4.8           | 57.2  |
| Capital Hill      | 427           | 525   | 344   | -18.7          | 52.6  |
| District 5        | 479           | 460   | 342   | 4.1            | 34.5  |
| Tinian            | 479           | 460   | 342   | 4.1            | 34.5  |
| District 6        | 583           | 648   | 477   | -10.0          | 35.8  |
| Rota              | 583           | 648   | 477   | -10.0          | 35.8  |

Source: Election Commission

Note: Polling places indicate villages. Since 1999 some villages are combined to reflect only election district.

**Table 7.5 Number of Female Registered Voters in 1995, 1997 and 1999:  
Election Precinct by Election Year**

| Election District        | Election Year |       |       | Percent change |       |
|--------------------------|---------------|-------|-------|----------------|-------|
|                          | 1999          | 1997  | 1995  | 99-97          | 97-95 |
| Registered Female Voters | 6,917         | 6,466 | 5,367 | 7.0            | 20.5  |
| District 1               | 2,604         | 2,409 | 1,764 | 8.1            | 36.6  |
| San Antonio              | 398           | 397   | 374   | 0.3            | 6.1   |
| San Vicente              | 1,425         | 1,353 | 1,057 | 5.3            | 28.0  |
| Koblerville              | 447           | 659   | 333   | -32.2          | 97.9  |
| Kagman                   | 334           | -     | -     | -              | -     |
| District 2               | 500           | 480   | 512   | 4.2            | -6.3  |
| Chalan Kanoa             | 500           | 368   | 410   | 35.9           | -10.2 |
| Susupe                   | ...           | 112   | 102   | ...            | 9.8   |
| District 3               | 1,574         | 1,482 | 1,381 | 6.2            | 7.3   |
| San Jose                 | 461           | 454   | 425   | 1.5            | 6.8   |
| Garapan                  | 1,101         | 1,010 | 938   | 9.0            | 7.7   |
| Northern Is.             | 12            | 18    | 18    | -33.3          | 0.0   |
| District 4               | 1,137         | 1,069 | 811   | 6.4            | 31.8  |
| Tanapag                  | 296           | 271   | 243   | 9.2            | 11.5  |
| San Roque                | 247           | 221   | 162   | 11.8           | 36.4  |
| Capital Hill             | 594           | 577   | 406   | 2.9            | 42.1  |
| District 5               | 491           | 440   | 358   | 11.6           | 22.9  |
| Tinian                   | 491           | 440   | 358   | 11.6           | 22.9  |
| District 6               | 611           | 586   | 541   | 4.3            | 8.3   |
| Rota                     | 611           | 586   | 541   | 4.3            | 8.3   |

Source: Election Commission

Note: Polling places indicate villages. Since 1999 some villages are combined to reflect only election district.

**Table 7.6 Number of Female Registered Voters Who Voted in 1995, 1997 and 1999: Election Precinct by Election Year**

| Election District  | Election Year |       |       | Percent change |       |
|--------------------|---------------|-------|-------|----------------|-------|
|                    | 1999          | 1997  | 1995  | 95-97          | 93-95 |
| All Voting Females | 5,463         | 5,977 | 4,133 | -8.6           | 44.6  |
| District 1         | 2,004         | 2,197 | 1,316 | -8.8           | 66.9  |
| San Antonio        | 311           | 368   | 287   | -15.5          | 28.2  |
| San Vicente        | 1,080         | 1,236 | 776   | -12.6          | 59.3  |
| Koblerville        | 350           | 593   | 253   | -41.0          | 134.4 |
| Kagman             | 263           | -     | -     | -              | -     |
| District 2         | 407           | 454   | 390   | -10.4          | 16.4  |
| Chalan Kanoa       | 407           | 344   | 312   | 18.3           | 10.3  |
| Susupe             | ...           | 110   | 78    | ...            | 41.0  |
| District 3         | 1,214         | 1,378 | 1,026 | -11.9          | 34.3  |
| San Jose           | 383           | 424   | 336   | -9.7           | 26.2  |
| Garapan            | 823           | 936   | 676   | -12.1          | 38.5  |
| Northern Is.       | 8             | 18    | 14    | -55.6          | 28.6  |
| District 4         | 870           | 969   | 659   | -10.2          | 47.0  |
| Tanapag            | 254           | 251   | 202   | 1.2            | 24.3  |
| San Roque          | 203           | 206   | 136   | -1.5           | 51.5  |
| Capital Hill       | 413           | 512   | 321   | -19.3          | 59.5  |
| District 5         | 439           | 416   | 303   | 5.5            | 37.3  |
| Tinian             | 439           | 416   | 303   | 5.5            | 37.3  |
| District 6         | 529           | 563   | 439   | -6.0           | 28.2  |
| Rota               | 529           | 563   | 439   | -6.0           | 28.2  |

Source: Election Commission

Note: Polling places indicate villages. Since 1999 some villages are combined to reflect only election district.

### **Number of Registered Female Voters**

The number of registered female voters has increased steadily since 1995, according to data provided by the CNMI Election Commission.

### **Female Voters who Voted**

The proportion of registered female voters who actually voted was highest in 1997, when 92% of this population voted in elections. Thus, the likelihood of voting among male and female registered voters was the same that year.

**Registered Voters who Voted Over Time**

The proportion of all registered voters who actually voted in the past three elections was highest in 1997. Registered females were somewhat more likely to vote than registered males, although gender voting trends were similar over time.

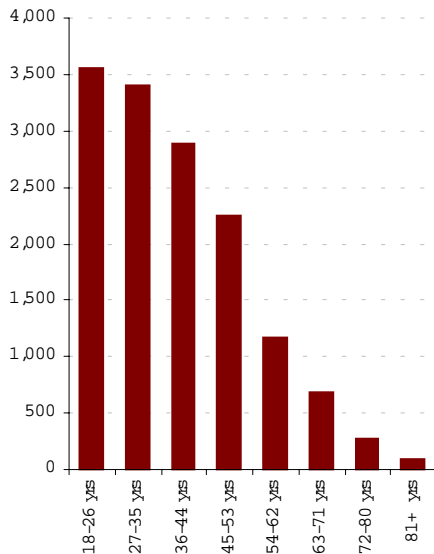
**Table 7.7 Percent of Registered Voters Who Voted in 1999, 1997 and 1995: Election Precinct by Election Year and Gender**

| Election District | All Voters |       |      | Male |       |      | Female |       |      |
|-------------------|------------|-------|------|------|-------|------|--------|-------|------|
|                   | 1999       | 1997  | 1995 | 1999 | 1997  | 1995 | 1999   | 1997  | 1995 |
| All Districts     | 78.1       | 91.8  | 75.2 | 77.3 | 91.2  | 73.6 | 79.0   | 92.4  | 77.0 |
| District 1        | 76.5       | 90.8  | 73.4 | 76.1 | 90.3  | 72.3 | 77.0   | 91.2  | 74.6 |
| San Antonio       | 78.6       | 92.5  | 73.7 | 78.9 | 92.4  | 71.0 | 78.1   | 92.7  | 76.7 |
| San Vicente       | 75.1       | 90.8  | 72.7 | 74.5 | 90.2  | 71.9 | 75.8   | 91.4  | 73.4 |
| Koblerville       | 78.0       | 89.6  | 75.7 | 77.7 | 89.3  | 75.5 | 78.3   | 90.0  | 76.0 |
| Kagman            | 77.9       | ...   | ...  | 77.1 | ...   | ...  | 78.7   | ...   | ...  |
| District 2        | 80.7       | 93.6  | 73.6 | 80.2 | 92.8  | 71.1 | 81.4   | 94.6  | 76.2 |
| Chalan Kanoa      | 80.7       | 93.3  | 73.6 | 80.2 | 93.1  | 71.2 | 81.4   | 93.5  | 76.1 |
| Susupe            | ...        | 94.6  | 73.4 | ...  | 91.9  | 70.7 | ...    | 98.2  | 76.5 |
| District 3        | 75.1       | 91.6  | 71.9 | 73.1 | 90.3  | 69.5 | 77.1   | 93.0  | 74.3 |
| San Jose          | 82.2       | 93.4  | 77.8 | 81.4 | 93.4  | 76.5 | 83.1   | 93.4  | 79.1 |
| Garapan           | 72.3       | 79.1  | 69.2 | 69.9 | 88.8  | 66.4 | 74.8   | 92.7  | 72.1 |
| Northern Is.      | 52.0       | 100.0 | 78.9 | 38.5 | 100.0 | 80.0 | 66.7   | 100.0 | 77.8 |
| District 4        | 76.1       | 90.2  | 79.0 | 75.6 | 89.8  | 77.0 | 76.5   | 90.6  | 81.3 |
| Tanapag           | 83.8       | 92.5  | 80.5 | 81.9 | 92.5  | 78.1 | 85.8   | 92.6  | 83.1 |
| San Roque         | 83.3       | 93.1  | 81.4 | 84.4 | 93.1  | 79.2 | 82.2   | 93.2  | 84.0 |
| Capital Hill      | 69.1       | 87.9  | 77.1 | 68.8 | 87.1  | 75.4 | 69.5   | 88.7  | 79.1 |
| District 5        | 87.7       | 94.3  | 82.6 | 86.2 | 94.1  | 80.9 | 89.4   | 94.5  | 84.6 |
| Tinian            | 87.7       | 94.3  | 82.6 | 86.2 | 94.1  | 80.9 | 89.4   | 94.5  | 84.6 |
| District 6        | 85.9       | 96.0  | 80.0 | 85.4 | 95.9  | 79.0 | 86.6   | 96.1  | 81.1 |
| Rota              | 85.9       | 96.0  | 80.0 | 85.4 | 95.9  | 79.0 | 86.6   | 96.1  | 81.1 |

Source: Election Commission

NOTE: POLITY PRICES IN LATE VILLAGES. SINCE 1999 SOME VILLAGES ARE COMBINED TO REPRESENT

**Figure 7.4 Age Distribution of Registered Voters, 1999**



**Table 7.8 Number of Registered Voters by Election Precinct, by Age Group, and by Gender: 1999**

| Election District | All Ages | Age Group |       |       |       |       |       |       |     |
|-------------------|----------|-----------|-------|-------|-------|-------|-------|-------|-----|
|                   |          | 18-26     | 27-35 | 36-44 | 45-53 | 54-62 | 63-71 | 72-80 | 81+ |
| All Voters        | 14,329   | 3,564     | 3,414 | 2,897 | 2,245 | 1,167 | 686   | 270   | 86  |
| District 1        | 5,358    | 1,347     | 1,333 | 1,109 | 833   | 421   | 211   | 80    | 24  |
| District 2        | 1,075    | 253       | 251   | 191   | 151   | 97    | 77    | 39    | 16  |
| District 3        | 3,219    | 816       | 760   | 583   | 527   | 283   | 181   | 58    | 11  |
| District 4        | 2,336    | 504       | 475   | 567   | 405   | 213   | 113   | 47    | 12  |
| District 5        | 1,047    | 309       | 261   | 196   | 144   | 74    | 39    | 15    | 9   |
| District 6        | 1,294    | 335       | 334   | 251   | 185   | 79    | 65    | 31    | 14  |
| All Males         | 7,412    | 1,765     | 1,726 | 1,495 | 1,196 | 673   | 389   | 137   | 31  |
| District 1        | 2,754    | 666       | 664   | 564   | 435   | 254   | 120   | 42    | 9   |
| District 2        | 575      | 130       | 125   | 116   | 82    | 56    | 47    | 16    | 3   |
| District 3        | 1,645    | 407       | 377   | 299   | 271   | 160   | 100   | 29    | 2   |
| District 4        | 1,199    | 238       | 237   | 282   | 222   | 122   | 67    | 27    | 4   |
| District 5        | 556      | 159       | 136   | 103   | 84    | 39    | 23    | 7     | 5   |
| District 6        | 683      | 165       | 187   | 131   | 102   | 42    | 32    | 16    | 8   |
| All Females       | 6,917    | 1,799     | 1,688 | 1,402 | 1,049 | 494   | 297   | 133   | 55  |
| District 1        | 2,604    | 681       | 669   | 545   | 398   | 167   | 91    | 38    | 15  |
| District 2        | 500      | 123       | 126   | 75    | 69    | 41    | 30    | 23    | 13  |
| District 3        | 1,574    | 409       | 383   | 284   | 256   | 123   | 81    | 29    | 9   |
| District 4        | 1,137    | 266       | 238   | 285   | 183   | 91    | 46    | 20    | 8   |
| District 5        | 491      | 150       | 125   | 93    | 60    | 35    | 16    | 8     | 4   |
| District 6        | 611      | 170       | 147   | 120   | 83    | 37    | 33    | 15    | 6   |

Source: Election Commission

**Table 7.9 Number of Registered Voters by Election Precinct by Age Group, and by Gender: 1997**

| Election District | All Ages | Age Group |       |       |       |       |       |       |     |
|-------------------|----------|-----------|-------|-------|-------|-------|-------|-------|-----|
|                   |          | 18-26     | 27-35 | 36-44 | 45-53 | 54-62 | 63-71 | 72-80 | 81+ |
| All Voters        | 13,384   | 3,537     | 3,138 | 2,763 | 1,974 | 1,065 | 596   | 246   | 65  |
| District 1        | 4,946    | 1,316     | 1,199 | 1,064 | 767   | 341   | 182   | 58    | 19  |
| District 2        | 1,032    | 274       | 221   | 190   | 120   | 103   | 66    | 45    | 13  |
| District 3        | 2,980    | 806       | 688   | 537   | 473   | 279   | 134   | 52    | 11  |
| District 4        | 2,235    | 533       | 484   | 510   | 348   | 202   | 105   | 44    | 9   |
| District 5        | 929      | 255       | 248   | 204   | 104   | 61    | 34    | 19    | 4   |
| District 6        | 1,262    | 353       | 298   | 258   | 162   | 79    | 75    | 28    | 9   |
| All Males         | 6,918    | 1,740     | 1,603 | 1,440 | 1,058 | 601   | 330   | 119   | 27  |
| District 1        | 2,537    | 635       | 595   | 554   | 409   | 199   | 111   | 26    | 8   |
| District 2        | 552      | 141       | 118   | 113   | 65    | 58    | 36    | 19    | 2   |
| District 3        | 1,498    | 387       | 336   | 273   | 244   | 158   | 71    | 24    | 5   |
| District 4        | 1,166    | 266       | 251   | 264   | 184   | 119   | 55    | 24    | 3   |
| District 5        | 489      | 130       | 134   | 108   | 59    | 29    | 16    | 10    | 3   |
| District 6        | 676      | 181       | 169   | 128   | 97    | 38    | 41    | 16    | 6   |
| All Females       | 6,466    | 1,797     | 1,535 | 1,323 | 916   | 464   | 266   | 127   | 38  |
| District 1        | 2,409    | 681       | 604   | 510   | 358   | 142   | 71    | 32    | 11  |
| District 2        | 480      | 133       | 103   | 77    | 55    | 45    | 30    | 26    | 11  |
| District 3        | 1,482    | 419       | 352   | 264   | 229   | 121   | 63    | 28    | 6   |
| District 4        | 1,069    | 267       | 233   | 246   | 164   | 83    | 50    | 20    | 6   |
| District 5        | 440      | 125       | 114   | 96    | 45    | 32    | 18    | 9     | 1   |
| District 6        | 586      | 172       | 129   | 130   | 65    | 41    | 34    | 12    | 3   |

Source: Election Commission

**Table 7.10 Number of Registered Voters Who Voted by Election Precinct, by Age Group, and by Gender: 1999**

| Election District | All Ages | Age Group |       |       |       |       |       |       |     |
|-------------------|----------|-----------|-------|-------|-------|-------|-------|-------|-----|
|                   |          | 18-26     | 27-35 | 36-44 | 45-53 | 54-62 | 63-71 | 72-80 | 81+ |
| All Voters        | 11,191   | 2,583     | 2,673 | 2,296 | 1,867 | 944   | 556   | 215   | 57  |
| District 1        | 4,100    | 949       | 1,015 | 877   | 688   | 329   | 171   | 58    | 13  |
| District 2        | 868      | 197       | 199   | 156   | 132   | 80    | 62    | 30    | 12  |
| District 3        | 2,416    | 543       | 576   | 450   | 420   | 229   | 142   | 48    | 8   |
| District 4        | 1,777    | 353       | 361   | 431   | 324   | 168   | 92    | 40    | 8   |
| District 5        | 918      | 264       | 223   | 175   | 132   | 67    | 36    | 14    | 7   |
| District 6        | 1,112    | 277       | 299   | 207   | 171   | 71    | 53    | 25    | 9   |
| All Males         | 5,728    | 1,240     | 1,347 | 1,175 | 994   | 528   | 309   | 114   | 21  |
| District 1        | 2,096    | 447       | 499   | 453   | 370   | 196   | 93    | 32    | 6   |
| District 2        | 461      | 97        | 105   | 95    | 72    | 41    | 36    | 12    | 3   |
| District 3        | 1,202    | 258       | 284   | 222   | 208   | 123   | 81    | 25    | 1   |
| District 4        | 907      | 167       | 178   | 213   | 174   | 95    | 53    | 25    | 2   |
| District 5        | 479      | 135       | 113   | 86    | 77    | 35    | 22    | 7     | 4   |
| District 6        | 583      | 136       | 168   | 106   | 93    | 38    | 24    | 13    | 5   |
| All Females       | 5,463    | 1,343     | 1,326 | 1,121 | 873   | 416   | 247   | 101   | 36  |
| District 1        | 2,004    | 502       | 516   | 424   | 318   | 133   | 78    | 26    | 7   |
| District 2        | 407      | 100       | 94    | 61    | 60    | 39    | 26    | 18    | 9   |
| District 3        | 1,214    | 285       | 292   | 228   | 212   | 106   | 61    | 23    | 7   |
| District 4        | 870      | 186       | 183   | 218   | 150   | 73    | 39    | 15    | 6   |
| District 5        | 439      | 129       | 110   | 89    | 55    | 32    | 14    | 7     | 3   |
| District 6        | 529      | 141       | 131   | 101   | 78    | 33    | 29    | 12    | 4   |

Source: Election Commission

**Voter Registration by Age**

The total number of registered voters was highest among 18 to 26 year olds in 1997, representing over 26% of all registered voters. However, without data on the size of the eligible voter population, we can not conclude that persons aged 18 to 26 years were most likely to vote.

**Table 7.11 Number of Registered Voters Who Voted by Election Precinct, by Age Group, and by Gender: 1997**

| Election District | All Ages | Age Group |       |       |       |       |       |       |     |
|-------------------|----------|-----------|-------|-------|-------|-------|-------|-------|-----|
|                   |          | 18-26     | 27-35 | 36-44 | 45-53 | 54-62 | 63-71 | 72-80 | 81+ |
| All Voters        | 12,289   | 3,143     | 2,886 | 2,588 | 1,848 | 998   | 559   | 212   | 55  |
| District 1        | 4,489    | 1,142     | 1,093 | 983   | 718   | 315   | 174   | 49    | 15  |
| District 2        | 966      | 253       | 208   | 182   | 111   | 94    | 62    | 43    | 13  |
| District 3        | 2,731    | 712       | 629   | 500   | 450   | 263   | 125   | 43    | 9   |
| District 4        | 2,016    | 460       | 432   | 482   | 314   | 190   | 94    | 38    | 6   |
| District 5        | 876      | 235       | 236   | 194   | 100   | 60    | 32    | 15    | 4   |
| District 6        | 1,211    | 341       | 288   | 247   | 155   | 76    | 72    | 24    | 8   |
| All Males         | 6,312    | 1,535     | 1,476 | 1,337 | 974   | 560   | 305   | 102   | 23  |
| District 1        | 2,292    | 541       | 542   | 513   | 379   | 182   | 105   | 23    | 7   |
| District 2        | 512      | 128       | 111   | 107   | 60    | 53    | 33    | 18    | 2   |
| District 3        | 1,353    | 335       | 306   | 247   | 226   | 148   | 67    | 20    | 4   |
| District 4        | 1,047    | 235       | 225   | 247   | 160   | 111   | 46    | 21    | 2   |
| District 5        | 460      | 120       | 129   | 101   | 57    | 29    | 14    | 7     | 3   |
| District 6        | 648      | 176       | 163   | 122   | 92    | 37    | 40    | 13    | 5   |
| All Females       | 5,977    | 1,608     | 1,410 | 1,251 | 874   | 438   | 254   | 110   | 32  |
| District 1        | 2,197    | 601       | 551   | 470   | 339   | 133   | 69    | 26    | 8   |
| District 2        | 454      | 125       | 97    | 75    | 51    | 41    | 29    | 25    | 11  |
| District 3        | 1,378    | 377       | 323   | 253   | 224   | 115   | 58    | 23    | 5   |
| District 4        | 969      | 225       | 207   | 235   | 154   | 79    | 48    | 17    | 4   |
| District 5        | 416      | 115       | 107   | 93    | 43    | 31    | 18    | 8     | 1   |
| District 6        | 563      | 165       | 125   | 125   | 63    | 39    | 32    | 11    | 3   |

Source: Election Commission

**Voter Registration by Ethnicity**

Data on raw numbers of US citizens who are registered voters show that Chamorros comprise the majority of all adults registered. Since numbers on the pool of all eligible voters are not available, we cannot conclude for certain which ethnic group is most likely to register.

**Table 7.12 Registered Voters by Election Precinct and Ethnic Groups: 1999**

| Election District | All Voters | Ethnic Groups |            |          |          |         |        |
|-------------------|------------|---------------|------------|----------|----------|---------|--------|
|                   |            | Chamorro      | Carolinian | American | Filipino | Palauan | Others |
| All Voters        | 14,329     | 9,547         | 2,054      | 1,316    | 658      | 371     | 383    |
| District 1        | 5,358      | 3,848         | 463        | 445      | 276      | 145     | 181    |
| District 2        | 1,075      | 741           | 126        | 53       | 87       | 47      | 21     |
| District 3        | 3,219      | 1,454         | 1,100      | 298      | 176      | 109     | 82     |
| District 4        | 2,336      | 1,409         | 353        | 388      | 53       | 60      | 73     |
| District 5        | 1,047      | 912           | 6          | 70       | 36       | 4       | 19     |
| District 6        | 1,294      | 1,183         | 6          | 62       | 30       | 6       | 7      |

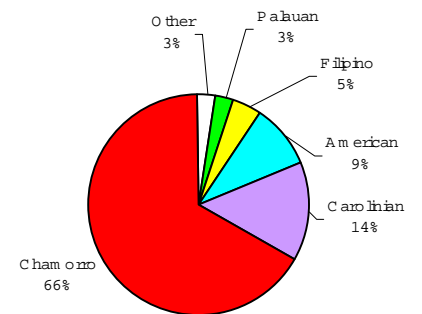
Source: Election Commission

**Table 7.13 Registered Voters by Election Precinct and by Ethnicity: 1999**

| Election District | All Voters | Ethnicity |            |          |         |          |       |
|-------------------|------------|-----------|------------|----------|---------|----------|-------|
|                   |            | Chamorro  | Carolinian | American | Palauan | Filipino | Other |
| All voters        | 14,329     | 9,547     | 2,054      | 1,316    | 371     | 658      | 383   |
| District 1        | 5,358      | 3,848     | 463        | 445      | 145     | 276      | 181   |
| San Antonio       | 858        | 625       | 19         | 67       | 52      | 74       | 21    |
| San Vicente       | 2,904      | 2,137     | 150        | 298      | 50      | 139      | 130   |
| Koblerville       | 891        | 568       | 198        | 33       | 31      | 47       | 14    |
| Kagman            | 705        | 518       | 96         | 47       | 12      | 16       | 16    |
| District 2        | 1,075      | 741       | 126        | 53       | 47      | 87       | 21    |
| Chalan Kanoa      | 1,075      | 741       | 126        | 53       | 47      | 87       | 21    |
| District 3        | 3,219      | 1,454     | 1,100      | 298      | 109     | 176      | 82    |
| San Jose          | 955        | 258       | 585        | 31       | 20      | 36       | 25    |
| Garapan           | 2,239      | 1,195     | 491        | 267      | 89      | 140      | 57    |
| North. Is.        | 25         | 1         | 24         | 0        | 0       | 0        | 0     |
| District 4        | 2,336      | 1,409     | 353        | 388      | 60      | 53       | 73    |
| Tanapag           | 617        | 287       | 246        | 24       | 23      | 9        | 28    |
| San Roque         | 504        | 393       | 28         | 42       | 14      | 14       | 13    |
| Capitol Hill      | 1,215      | 729       | 79         | 322      | 23      | 30       | 32    |
| District 5        | 1,046      | 912       | 6          | 70       | 4       | 36       | 19    |
| Tinian            | 1,046      | 912       | 6          | 70       | 4       | 36       | 18    |
| District 6        | 1,294      | 1,183     | 6          | 62       | 6       | 30       | 7     |
| Rota              | 1,294      | 1,183     | 6          | 62       | 6       | 30       | 7     |

Source: Election Commission

**Figure 7.5 Percent Distribution of Total Registered Voters by Ethnicity, 1999**



**Table 7.14 Registered Voters by Election Precinct and by Ethnicity: 1997**

| Election District | All Voters | Ethnicity |            |             |          |         |          |        |
|-------------------|------------|-----------|------------|-------------|----------|---------|----------|--------|
|                   |            | Chamorro  | Carolinian | Chamolinian | American | Palauan | Filipino | Others |
| All voters        | 13,384     | 9,003     | 1,744      | 433         | 1,281    | 287     | 508      | 128    |
| District 1        | 4,946      | 3,606     | 392        | 135         | 450      | 117     | 203      | 43     |
| San Antonio       | 831        | 638       | 12         | 13          | 74       | 34      | 58       | 2      |
| San Vicente       | 2,753      | 2,048     | 155        | 62          | 301      | 52      | 105      | 30     |
| Koblerville       | 1,362      | 920       | 225        | 60          | 75       | 31      | 40       | 11     |
| District 2        | 1,032      | 719       | 106        | 30          | 53       | 39      | 68       | 17     |
| Chalan Kanoa      | 771        | 541       | 91         | 25          | 28       | 33      | 45       | 8      |
| Susupe            | 261        | 178       | 15         | 5           | 25       | 6       | 23       | 9      |
| District 3        | 2,980      | 1,369     | 970        | 85          | 283      | 90      | 141      | 42     |
| San Jose          | 895        | 250       | 522        | 34          | 35       | 12      | 28       | 14     |
| Garapan           | 2,045      | 1,109     | 418        | 51          | 248      | 78      | 113      | 28     |
| North. Is.        | 40         | 10        | 30         | 0           | 0        | 0       | 0        | 0      |
| District 4        | 2,235      | 1,318     | 265        | 171         | 374      | 36      | 52       | 19     |
| Tanapag           | 589        | 234       | 180        | 124         | 30       | 9       | 11       | 1      |
| San Roque         | 466        | 370       | 22         | 22          | 35       | 5       | 12       | 0      |
| Capitol Hill      | 1,180      | 714       | 63         | 25          | 309      | 22      | 29       | 18     |
| District 5        | 929        | 831       | 5          | 4           | 59       | 3       | 21       | 6      |
| Tinian            | 929        | 831       | 5          | 4           | 59       | 3       | 21       | 6      |
| District 6        | 1,262      | 1,160     | 6          | 8           | 62       | 2       | 23       | 1      |
| Rota              | 1,262      | 1,160     | 6          | 8           | 62       | 2       | 23       | 1      |

Source: Election Commission

**Voter Registration Over Time**

The number of adults registering to vote has increased steadily among all ethnic groups over the past decade.

**Table 7.15 Number of Registered Voters by Ethnicity:  
Election Years 1989 to 1999**

| Ethnicity   | Year   |        |        |        |        |       |
|-------------|--------|--------|--------|--------|--------|-------|
|             | 1999   | 1997   | 1995   | 1993   | 1991   | 1989  |
| Total       | 14,329 | 13,384 | 11,114 | 11,856 | 10,022 | 9,379 |
| Chamorro    | 9,547  | 9,003  | 7,567  | 7,989  | 6,904  | 6,549 |
| Carolinian  | 2,054  | 1,744  | 1,446  | 1,487  | 1,312  | 1,293 |
| Chamolinian | -      | 433    | 368    | 445    | 375    | 309   |
| American    | 1,316  | 1,281  | 955    | 1,150  | 777    | 586   |
| Palauan     | 371    | 287    | 265    | 275    | 250    | 248   |
| Filipino    | 658    | 508    | 372    | 376    | 290    | 253   |
| Others      | 383    | 128    | 141    | 134    | 114    | 141   |

Source: Election Commission

Note: "-" means not applicable.

**Table 7.16 Registered Voters Who Failed to Vote by Election Precinct  
and by Gender: 1997**

| Age Group      | Total | ED 1  | ED 2 | ED 3 | ED 4 | ED 5 | ED 6 |
|----------------|-------|-------|------|------|------|------|------|
| Failed to vote | 3,138 | 1,259 | 207  | 802  | 559  | 129  | 182  |
| 18 to 26 yrs   | 979   | 399   | 56   | 272  | 149  | 45   | 58   |
| 27 to 35 yrs   | 724   | 300   | 52   | 184  | 115  | 38   | 35   |
| 36 to 44 yrs   | 600   | 231   | 35   | 133  | 137  | 21   | 43   |
| 45 to 53 yrs   | 398   | 163   | 21   | 106  | 81   | 12   | 15   |
| 54 to 62 yrs   | 228   | 97    | 16   | 55   | 45   | 7    | 8    |
| 63 to 71 yrs   | 129   | 40    | 14   | 39   | 21   | 3    | 12   |
| 72 to 80 yrs   | 52    | 19    | 9    | 10   | 7    | 1    | 6    |
| 81 yrs & over  | 28    | 10    | 4    | 3    | 4    | 2    | 5    |
| Males          | 1,682 | 659   | 114  | 442  | 290  | 77   | 100  |
| 18 to 26 yrs   | 508   | 206   | 33   | 148  | 68   | 24   | 29   |
| 27 to 35 yrs   | 365   | 151   | 20   | 93   | 59   | 23   | 19   |
| 36 to 44 yrs   | 325   | 116   | 21   | 77   | 69   | 17   | 25   |
| 45 to 53 yrs   | 221   | 81    | 12   | 63   | 49   | 7    | 9    |
| 54 to 62 yrs   | 149   | 62    | 14   | 37   | 28   | 4    | 4    |
| 63 to 71 yrs   | 81    | 30    | 10   | 19   | 13   | 1    | 8    |
| 72 to 80 yrs   | 23    | 10    | 4    | 4    | 2    | 0    | 3    |
| 81 yrs & over  | 10    | 3     | 0    | 1    | 2    | 1    | 3    |
| Females        | 1,456 | 600   | 93   | 360  | 269  | 52   | 82   |
| 18 to 26 yrs   | 471   | 193   | 23   | 124  | 81   | 21   | 29   |
| 27 to 35 yrs   | 359   | 149   | 32   | 91   | 56   | 15   | 16   |
| 36 to 44 yrs   | 275   | 115   | 14   | 56   | 68   | 4    | 18   |
| 45 to 53 yrs   | 177   | 82    | 9    | 43   | 32   | 5    | 6    |
| 54 to 62 yrs   | 79    | 35    | 2    | 18   | 17   | 3    | 4    |
| 63 to 71 yrs   | 48    | 10    | 4    | 20   | 8    | 2    | 4    |
| 72 to 80 yrs   | 29    | 9     | 5    | 6    | 5    | 1    | 3    |
| 81 yrs & over  | 18    | 7     | 4    | 2    | 2    | 1    | 2    |

Source: Board of Election

Note: ED means Election District



Chapter 8  
TOURISM

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## Summary of Visitors

The CNMI tourism industry experienced a sharp drop in the number of tourists following the onset of the 1997 Asian financial crisis. The number of visitors rose rapidly during the mid-1980's and 1990's, however data show a precipitous drop in tourism rates for 1998 fiscal year. Since then visitor numbers have begun to climb again although 2000 numbers remained well below pre-1998 levels.

Japanese persons accounted for over 72% of all CNMI visitors in 2000, followed by Korean (13%) and US/Guamanian (10%) tourists. The remaining 5% of CNMI visitors arrived from elsewhere around the world.

Virtually all CNMI tourist (98%) arrived in Saipan, as compared to Rota or Tinian. The number of visitors to Rota and Tinian has fluctuated over the past decade, however almost no tourists travelled to Tinian in 1997.

The number of hotel rooms in the CNMI increased from 740 in 1980 to 4,521 rooms in 2000. The number of CNMI hotel rooms peaked in 1998 at 4,614 rooms, until the effects of the Asian fiscal crisis were fully realized.

Estimated total visitor expenditure in the CNMI increased from \$61 million in 1980 to about \$585 million in 1997.

The vast majority (98%) of the total visitors arrive at CNMI's airports, as compared to seaports. Data show little seasonal variation in the volume of tourists arriving by air, although visitors arriving by sea tend to visit during the winter months of January, February and December.

The number of CNMI business arrivals has dropped sharply in response to the economic crisis. In fact, business visits decreased by half between 1998 and 1999. Business visitors tend to come from Korean, Japan, or other countries including the mainland US.

Lastly, tourism data reveal that most young adult CNMI visitors between the ages of 20 and 29 years tend to be female, whereas visitors aged 30 and older tend to be male. This striking pattern emerged between men and women regardless of their country of origin..

**Table 8.1 CNM IVisitors ArrivalbyMonth: CY1995 to CY2000**

| Month     | Year    |         |         |         |         |         |
|-----------|---------|---------|---------|---------|---------|---------|
|           | 2000    | 1999    | 1998    | 1997    | 1996    | 1995    |
| Total     | 528,597 | 501,788 | 490,165 | 694,797 | 736,117 | 676,161 |
| January   | 43,891  | 43,706  | 48,314  | 66,935  | 65,676  | 56,453  |
| February  | 45,997  | 41,502  | 42,618  | 58,360  | 60,125  | 55,318  |
| March     | 44,355  | 44,271  | 43,275  | 62,626  | 66,766  | 58,609  |
| April     | 41,038  | 39,294  | 37,065  | 56,302  | 55,132  | 46,732  |
| May       | 42,159  | 39,558  | 41,328  | 61,794  | 65,367  | 56,624  |
| June      | 44,037  | 38,855  | 39,636  | 59,940  | 60,548  | 52,419  |
| July      | 47,679  | 43,612  | 42,808  | 62,532  | 58,992  | 59,583  |
| August    | 46,479  | 44,157  | 43,112  | 60,000  | 64,658  | 65,803  |
| September | 43,730  | 40,087  | 35,449  | 53,706  | 54,358  | 54,307  |
| October   | 40,423  | 40,941  | 34,137  | 49,202  | 59,564  | 51,691  |
| November  | 43,939  | 41,480  | 39,301  | 51,525  | 61,613  | 57,972  |
| December  | 44,870  | 44,325  | 43,122  | 51,875  | 63,318  | 60,650  |

Source: Marianas Visitors Authority

**Table 8.2 Visitor Entries byCountry ofOrigin, CNM I: FY1995 to FY2000**

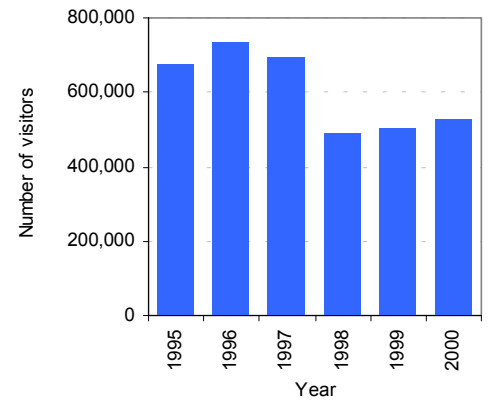
| Country           | FiscalYear |         |         |         |         |         |
|-------------------|------------|---------|---------|---------|---------|---------|
|                   | 2000       | 1999    | 1998    | 1997    | 1996    | 1995    |
| Total             | 526,111    | 491,602 | 526,298 | 726,690 | 721,935 | 654,375 |
| Japan             | 381,518    | 372,101 | 396,228 | 450,190 | 437,880 | 409,855 |
| U.S./Guam         | 51,880     | 50,590  | 64,100  | 77,078  | 90,059  | 95,516  |
| Republic of Korea | 67,979     | 45,691  | 39,281  | 169,822 | 168,517 | 124,007 |
| Taiwan (R.O.C.)   | 7,895      | 3,733   | 4,651   | 6,357   | 6,919   | 6,435   |
| Hong Kong         | 5,319      | 5,560   | 4,542   | 4,387   | 5,384   | 4,172   |
| United Kingdom    | 679        | 555     | 699     | 591     | 540     | 762     |
| Germany           | 274        | 345     | 314     | 222     | 263     | 386     |
| Canada            | 648        | 615     | 592     | 692     | 588     | 587     |
| New Zealand       | 117        | 126     | 162     | 199     | 218     | 319     |
| Australia         | 549        | 1,065   | 816     | 603     | 708     | 1,007   |
| Other countries   | 9,253      | 11,221  | 14,913  | 16,549  | 10,859  | 11,329  |

Source: Marianas Visitors Authority

**Number of Visitors to the CNMI**

The total number of visitors into the CNMI increased annually from 1994 to 1997, but declined sharply in 1998. Visitor numbers have rebounded slightly but remain significantly lower than the 1997 levels.

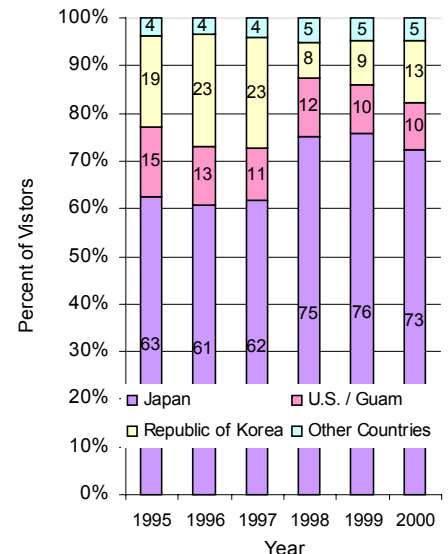
**Figure 8.1 Annual Total Number of Visitors into the CNMI, 1995 to 2000**



**Visitors' Country of Origin**

The majority of CNMI visitors arrived from Japan (73%). Korean visitors constituted the second largest group until their numbers decreased dramatically in 1998. Approximately 10% of visitors were from the US and Guam in 2000. The proportion of visitors from US and Guam has also declined over time but at a slower rate.

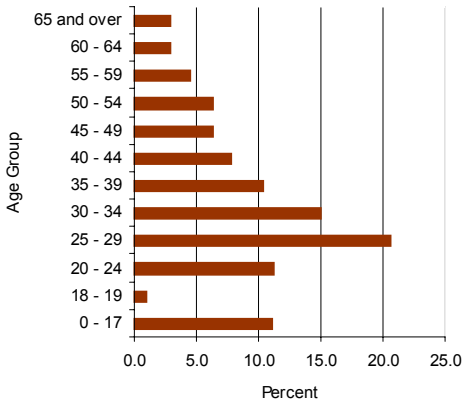
**Figure 8.2 Percent Distribution of Total CNMI Visitors by Country of Origin, 1995 to 2000**



## Visitors by Island

The vast majority of CNMI visitors (98%) in 2000 arrived on Saipan. The number of visitors to Rota and Tinian fluctuated from year to year, although many more tourists traveled directly to Rota than Tinian.

**Figure 8.3** Age Distribution of Visitors into the CNMI, FY 1999

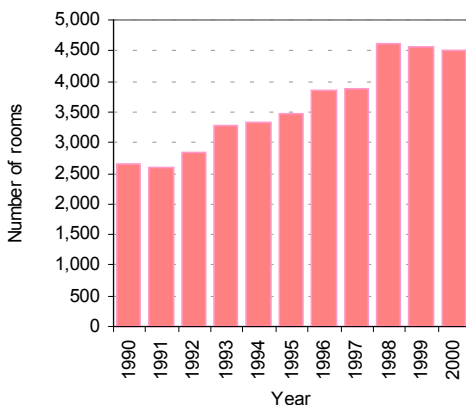


## Number of Hotel Rooms and Visitor Expenditures

The number of hotel rooms in the CNMI increased from 740 in 1980 to 4,521 rooms in 2000.

Estimated total visitors' expenditure in the CNMI increased from \$61 million in 1980 to about \$585 million in 1997, according to the Marianas Visitors Authority.

**Figure 8.4** Number of Hotel Rooms, 1989 to 1999



**Table 8.3** Visitor Entries by Island of Entry: FY 1986 to FY2000

| Fiscal Year | Number of Visitors |         |        |        | Percent Change |        |       |         |
|-------------|--------------------|---------|--------|--------|----------------|--------|-------|---------|
|             | Total              | Saipan  | Rota   | Tinian | Total          | Saipan | Rota  | Tinian  |
| 2000        | 526,111            | 513,619 | 9,826  | 2,666  | 6.6            | 7.3    | -26.6 | -19.4   |
| 1999        | 491,602            | 475,983 | 12,437 | 3,182  | -6.6           | -7.1   | -19.3 | 101.9   |
| 1998        | 526,298            | 509,885 | 14,837 | 1,576  | -27.6          | -27.7  | -30.3 | 78700.0 |
| 1997        | 726,690            | 705,399 | 21,289 | 2      | 0.7            | 0.4    | 14.3  | -99.5   |
| 1996        | 721,935            | 702,907 | 18,620 | 408    | 10.3           | 12.2   | -31.3 | -49.6   |
| 1995        | 654,375            | 626,447 | 27,119 | 809    | 12.1           | 10.0   | 94.7  | 230.2   |
| 1994        | 583,557            | 569,381 | 13,931 | 245    | 8.8            | 8.7    | 15.5  | -43.3   |
| 1993        | 536,263            | 523,771 | 12,060 | 432    | 9.8            | 11.0   | -23.0 | -28.7   |
| 1992        | 488,330            | 472,063 | 15,661 | 606    | 15.0           | 14.6   | 27.6  | 231.1   |
| 1991        | 424,458            | 412,004 | 12,271 | 183    | 1.8            | 2.0    | -5.0  | -41.7   |
| 1990        | 417,146            | 403,920 | 12,912 | 314    | 38.2           | 40.7   | -9.5  | -14.9   |
| 1989        | 301,818            | 287,175 | 14,274 | 369    | 29.4           | 31.8   | -6.9  | 169.3   |
| 1988        | 233,291            | 217,818 | 15,336 | 137    | 25.3           | 29.3   | -12.7 | -37.2   |
| 1987        | 186,203            | 168,427 | 17,558 | 218    | 18.4           | 16.3   | 46.0  | -40.6   |
| 1986        | 157,207            | 144,815 | 12,025 | 367    | ...            | ...    | ...   | ...     |

Source: Marianas Visitors Authority

**Table 8.4** Number of Hotel Rooms, Visitor Entries, and Visitor Estimated Expenditures: FY 1980 to FY2000

| Fiscal Year | Hotel Rooms | Visitor Entries | Est. Visitor Expenditures (Millions \$) | Ave. Expenditures per Visitors (\$) |
|-------------|-------------|-----------------|---|-------------------------------------|
| 2000        | 4,521       | 526,111         | ...                                     | ...                                 |
| 1999        | 4,556       | 491,602         | ...                                     | ...                                 |
| 1998        | 4,614       | 526,298         | ...                                     | ...                                 |
| 1997        | 3,881       | 726,690         | 585                                     | 805                                 |
| 1996        | 3,583       | 721,935         | 581                                     | 805                                 |
| 1995        | 3,458       | 654,375         | 527                                     | 805                                 |
| 1994        | 3,346       | 583,557         | 470                                     | 805                                 |
| 1993        | 3,267       | 536,263         | 496                                     | 924                                 |
| 1992        | 2,852       | 488,330         | 518                                     | 1,060                               |
| 1991        | 2,591       | 424,458         | 427                                     | 1,006                               |
| 1990        | 2,651       | 417,146         | 418                                     | 1,002                               |
| 1989        | 2,268       | 301,818         | 319                                     | 1,055                               |
| 1988        | 1,824       | 233,291         | 244                                     | 1,048                               |
| 1987        | 1,421       | 186,203         | 154                                     | 827                                 |
| 1986        | 1,152       | 157,207         | 134                                     | 852                                 |
| 1985        | 976         | 142,284         | 122                                     | 855                                 |
| 1984        | 765         | 131,823         | 71                                      | 540                                 |
| 1983        | 767         | 124,024         | 67                                      | 540                                 |
| 1982        | 767         | 111,173         | 57                                      | 510                                 |
| 1981        | 814         | 117,572         | 59                                      | 502                                 |
| 1980        | 740         | 117,149         | 61                                      | 519                                 |

Source: Marianas Visitors Authority and Office of Planning and Budget

Note: "... Means data not available.

**Table 8.5 CNMI Visitor Arrivals by Air: 1995 to 1999**

| Month     | Year    |         |         |         |         |
|-----------|---------|---------|---------|---------|---------|
|           | 1999    | 1998    | 1997    | 1996    | 1995    |
| Total     | 493,475 | 481,192 | 684,990 | 729,273 | 676,161 |
| January   | 42,027  | 45,132  | 64,467  | 63,115  | 56,453  |
| February  | 41,152  | 41,824  | 57,834  | 59,798  | 55,318  |
| March     | 42,795  | 41,791  | 61,017  | 65,062  | 58,609  |
| April     | 37,328  | 37,065  | 56,302  | 55,132  | 46,732  |
| May       | 39,194  | 40,605  | 61,351  | 64,551  | 56,624  |
| June      | 38,339  | 39,636  | 59,940  | 60,548  | 52,419  |
| July      | 43,262  | 42,808  | 61,571  | 58,426  | 59,583  |
| August    | 43,807  | 42,554  | 59,418  | 64,083  | 65,803  |
| September | 40,087  | 35,449  | 52,506  | 54,358  | 54,307  |
| October   | 40,941  | 34,137  | 49,202  | 59,564  | 51,691  |
| November  | 41,480  | 39,301  | 51,616  | 61,318  | 57,972  |
| December  | 43,063  | 40,890  | 49,766  | 63,318  | 60,650  |

Source: Marianas Visitors Authority

**Table 8.6 CNMI Visitor Arrivals by Sea: 1995 to 1999**

| Month     | Year  |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|
|           | 1999  | 1998  | 1997  | 1996  | 1995  |
| Total     | 8,313 | 8,973 | 9,898 | 7,723 | 8,291 |
| January   | 1,679 | 3,182 | 2,468 | 2,561 | 2,493 |
| February  | 350   | 794   | 526   | 327   | 348   |
| March     | 1,476 | 1,484 | 1,609 | 1,704 | 1,646 |
| April     | 1,966 | 0     | 0     | 0     | 0     |
| May       | 364   | 723   | 443   | 816   | 429   |
| June      | 516   | 0     | 0     | 0     | 0     |
| July      | 350   | 0     | 961   | 566   | 583   |
| August    | 350   | 558   | 582   | 575   | 753   |
| September | 0     | 0     | 1,200 | 0     | 461   |
| October   | 0     | 0     | 0     | 0     | 408   |
| November  | 0     | 0     | 0     | 0     | 0     |
| December  | 1,262 | 2,232 | 2,109 | 1,174 | 1,170 |

Source: Marianas Visitors Authority

**Airport Arrivals**

The vast majority of all visitors between 1995 and 1999 arrived at CNMI's airports, particularly, Saipan International Airport. Data for 2000 Airport arrivals were not available for this pressing.

**Seaport Arrivals**

The majority of seaport arrivals between 1995 and 1999 occurred during the winter months of December, January, and March. Visitor arrivals by sea account for only 2% of all arrivals to the CNMI. Data for 2000 were not available for this pressing.

**Table 8.7 CNM IVisitor Arrivals by Country of Origin and Month: 2000**

| Month     | Total   | Japan   | Korea  | U.S. /<br>Guam | Tai-<br>wan | Hong-<br>Kong | Philip-<br>pines | China | O thers |
|-----------|---------|---------|--------|----------------|-------------|---------------|------------------|-------|---------|
| Total     | 520,648 | 378,758 | 71,614 | 51,217         | 9,964       | 5,252         | 2,312            | 1,531 | 7,749   |
| January   | 43,360  | 32,628  | 4,936  | 5,172          | 142         | 252           | 154              | 76    | 531     |
| February  | 45,408  | 35,135  | 4,772  | 4,507          | 198         | 587           | 171              | 38    | 589     |
| March     | 43,706  | 34,188  | 4,810  | 3,985          | 226         | 251           | 199              | 47    | 649     |
| April     | 40,079  | 27,848  | 5,918  | 5,403          | 300         | 498           | 21               | 91    | 759     |
| May       | 41,567  | 29,267  | 6,584  | 3,897          | 1,184       | 401           | 156              | 78    | 592     |
| June      | 43,247  | 31,550  | 5,373  | 4,053          | 1,513       | 510           | 179              | 69    | 790     |
| July      | 46,973  | 30,677  | 7,807  | 6,065          | 1,528       | 621           | 157              | 118   | 706     |
| August    | 45,889  | 32,878  | 7,504  | 3,189          | 1,183       | 586           | 263              | 286   | 590     |
| September | 43,159  | 32,524  | 4,511  | 3,964          | 1,242       | 358           | 299              | 261   | 571     |
| October   | 39,640  | 27,229  | 6,376  | 4,215          | 997         | 469           | 227              | 127   | 783     |
| November  | 43,362  | 32,520  | 6,354  | 3,196          | 636         | 302           | 236              | 118   | 577     |
| December  | 44,258  | 32,314  | 6,669  | 3,571          | 815         | 417           | 250              | 222   | 612     |

Source: Marianas Visitors Authority

### **Visitor Arrivals by Country of Origin and Month**

Data for the calendar year 2000 show relatively little seasonal variation in the volume of tourists visiting the CNMI. More Japanese tourists visited the region in February and March than during other months, but tourist rates throughout the year remained generally constant.

**Table 8.8 CNM IVisitor Arrivals by Country of Origin, and Month: 1999**

| Month     | Total   | Japan   | Korea  | U.S. /<br>Guam | Taiwan | Hong-<br>Kong | Philip-<br>pines | China | O thers |
|-----------|---------|---------|--------|----------------|--------|---------------|------------------|-------|---------|
| Total     | 501,788 | 380,473 | 51,150 | 48,891         | 2,890  | 5,379         | 2,327            | 1,828 | 8,850   |
| January   | 43,706  | 34,240  | 3,906  | 3,774          | 379    | 329           | 186              | 138   | 754     |
| February  | 41,502  | 31,372  | 3,676  | 4,264          | 490    | 434           | 183              | 329   | 754     |
| March     | 44,271  | 34,081  | 3,539  | 5,068          | 235    | 428           | 170              | 111   | 639     |
| April     | 39,294  | 28,252  | 3,409  | 5,395          | 258    | 389           | 210              | 239   | 1,142   |
| May       | 39,558  | 30,013  | 4,178  | 3,796          | 141    | 453           | 223              | 178   | 576     |
| June      | 38,855  | 29,005  | 3,365  | 4,514          | 184    | 515           | 180              | 234   | 858     |
| July      | 43,612  | 32,645  | 4,683  | 4,089          | 283    | 591           | 214              | 161   | 946     |
| August    | 44,157  | 33,412  | 5,418  | 3,502          | 354    | 600           | 187              | 90    | 594     |
| September | 40,087  | 32,630  | 3,212  | 2,844          | 187    | 385           | 189              | 75    | 565     |
| October   | 40,941  | 31,045  | 4,495  | 3,818          | 149    | 437           | 206              | 114   | 677     |
| November  | 41,480  | 31,698  | 5,153  | 3,322          | 115    | 396           | 138              | 68    | 590     |
| December  | 44,325  | 32,080  | 6,116  | 4,505          | 115    | 422           | 241              | 91    | 755     |

Source: Marianas Visitors Authority

**Table 8.9 CNM IVisitor Arrivals for Business Purposes: 1990 to 1999**

| M onth     | Year  |       |       |        |       |       |
|------------|-------|-------|-------|--------|-------|-------|
|            | 1999  | 1998  | 1997  | 1996   | 1995  | 1994  |
| Total      | 4,157 | 9,640 | 8,483 | 11,205 | 7,246 | 7,259 |
| January    | 416   | 643   | 646   | 2,561  | 610   | 683   |
| February   | 326   | 551   | 783   | 327    | 613   | 525   |
| M arch     | 407   | 719   | 702   | 1,704  | 680   | 385   |
| April      | 322   | 458   | 665   | 816    | 701   | 555   |
| M ay       | 330   | 605   | 718   | 718    | 592   | 640   |
| June       | 346   | 549   | 718   | 726    | 694   | 613   |
| July       | 380   | 615   | 793   | 671    | 707   | 689   |
| August     | 339   | 609   | 728   | 744    | 718   | 669   |
| Septem ber | 324   | 3,305 | 700   | 731    | 37    | 655   |
| O ctober   | 387   | 576   | 680   | 868    | 367   | 633   |
| N oven ber | 261   | 440   | 702   | 738    | 796   | 638   |
| Decem ber  | 319   | 570   | 648   | 601    | 731   | 574   |

Source: M arianas Visitors Authority

\*Note: 2000 data not available.

**Table 8.10 CNM IVisitor Arrivals for Business Purposes by Country of Origin and Month: 1999**

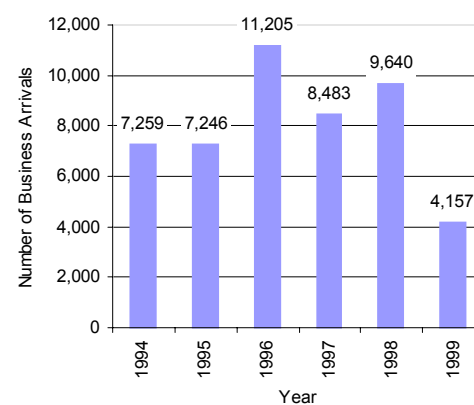
| M onth     | Total | Japan | Korea | Hong Kong | Tai wan | Aust-ralia | O thers |
|------------|-------|-------|-------|-----------|---------|------------|---------|
| Total      | 4,157 | 711   | 1,587 | 458       | 100     | 76         | 1,225   |
| January    | 416   | 60    | 131   | 74        | 13      | 10         | 128     |
| February   | 326   | 39    | 117   | 30        | 5       | 3          | 132     |
| M arch     | 407   | 78    | 161   | 41        | 7       | 8          | 112     |
| April      | 322   | 70    | 101   | 18        | 13      | 8          | 112     |
| M ay       | 330   | 61    | 124   | 38        | 12      | 4          | 91      |
| June       | 346   | 43    | 132   | 50        | 11      | 8          | 102     |
| July       | 380   | 66    | 155   | 28        | 6       | 5          | 120     |
| August     | 339   | 57    | 139   | 25        | 12      | 4          | 102     |
| Septem ber | 324   | 60    | 120   | 48        | 5       | 5          | 86      |
| O ctober   | 387   | 61    | 168   | 50        | 6       | 6          | 96      |
| N oven ber | 261   | 60    | 96    | 22        | 6       | 7          | 70      |
| Decem ber  | 319   | 56    | 143   | 34        | 4       | 8          | 74      |

Source: M arianas Visitors Authority

**Total Number of Business Visitors**

Total number of business visitors drastically declined in 1999.

The number of business visitors to the CNMI appears to have dropped in response to the Asian financial crisis which began in 1997. Business visits sharply decreased by half between 1998 and 1999 and arrival numbers were substantially lower than in earlier years. Data for 2000 were not available for this pressing.

**Figure 8.5 CNMI Arrivals for Business Purposes, 1995 to 1999****Business Visitor Arrivals by Country of Origin and Month**

In 1999, the number of business visitors arriving in the CNMI remained relatively constant throughout the year.

### **Business Visitor Arrivals by Country of Origin and Month**

In 1998, more than one-third (34%) of all CNMI business visitor arrivals occurred in September.

**Table 8.11 CNMI Visitor Arrivals for Business Purposes by Country of Origin and Month: 1998**

| Month     | Total | Japan | Korea | Hong Kong | Taiwan | Australia | Others |
|-----------|-------|-------|-------|-----------|--------|-----------|--------|
| Total     | 9,640 | 1,000 | 2,933 | 596       | 136    | 231       | 4,744  |
| January   | 643   | 86    | 284   | 43        | 0      | 24        | 206    |
| February  | 551   | 79    | 223   | 35        | 6      | 47        | 161    |
| March     | 719   | 93    | 289   | 94        | 0      | 31        | 212    |
| April     | 458   | 67    | 214   | 29        | 6      | 40        | 102    |
| May       | 605   | 75    | 273   | 0         | 17     | 15        | 225    |
| June      | 549   | 87    | 253   | 21        | 13     | 17        | 158    |
| July      | 615   | 94    | 290   | 53        | 0      | 0         | 178    |
| August    | 609   | 88    | 246   | 51        | 49     | 7         | 168    |
| September | 3,305 | 78    | 208   | 57        | 0      | 13        | 2,949  |
| October   | 576   | 106   | 236   | 81        | 15     | 16        | 122    |
| November  | 440   | 75    | 181   | 54        | 13     | 0         | 117    |
| December  | 570   | 72    | 236   | 78        | 17     | 21        | 146    |

Source: Marianas Visitors Bureau

### **CNMI Business Visitor Arrivals by Country of Origin Over Time**

Data indicate that the number of CNMI business visitors from Japan peaked in 1996 and fell precipitously thereafter. Most business visitors come from Korea and numerous other countries worldwide, including the Mainland United States.

**Table 8.12 CNMI Visitor Arrivals for Business Purposes by Country of Origin: 1995 to 1999**

| Country of Origin | Year  |       |       |        |       |
|-------------------|-------|-------|-------|--------|-------|
|                   | 1995  | 1996  | 1997  | 1998   | 1999  |
| Total             | 4,157 | 9,640 | 8,483 | 11,205 | 7,246 |
| Japan             | 711   | 1,000 | 1,160 | 6,265  | 1,136 |
| Korea             | 1,587 | 2,933 | 3,547 | 2,531  | 2,815 |
| Hong Kong         | 458   | 596   | 480   | 298    | 390   |
| Taiwan            | 100   | 136   | 74    | 180    | 97    |
| Australia         | 76    | 231   | 56    | 23     | 187   |
| Others            | 1,225 | 4,744 | 3,166 | 1,908  | 2,621 |

Source: Marianas Visitors Authority

\*Note: 2000 data not available.



**Table 8.13 CNMI Selected Visitor Arrivals by Age, Gender, and Country of Origin: Calendar Year 1999**

| Age Group   | Japan   |         | Korea  |        | Taiwan |        | Hong Kong |        |
|-------------|---------|---------|--------|--------|--------|--------|-----------|--------|
|             | Male    | Female  | Male   | Female | Male   | Female | Male      | Female |
| Total       | 197,429 | 173,126 | 24,221 | 25,002 | 1,450  | 1,320  | 2,556     | 2,366  |
| 0 - 17      | 20,959  | 20,556  | 2,636  | 2,396  | 137    | 126    | 199       | 199    |
| 18 - 19     | 1,571   | 2,459   | 93     | 187    | 12     | 18     | 11        | 11     |
| 20 - 24     | 15,111  | 28,810  | 607    | 2,889  | 53     | 117    | 124       | 183    |
| 25 - 29     | 31,075  | 41,222  | 5,869  | 8,511  | 183    | 244    | 414       | 549    |
| 30 - 34     | 29,322  | 24,143  | 5,256  | 3,601  | 247    | 235    | 540       | 532    |
| 35 - 39     | 22,889  | 14,577  | 3,176  | 2,266  | 171    | 164    | 498       | 383    |
| 40 - 44     | 18,760  | 9,689   | 2,327  | 1,614  | 199    | 126    | 330       | 216    |
| 45 - 49     | 16,456  | 7,991   | 1,353  | 949    | 145    | 122    | 204       | 129    |
| 50 - 54     | 16,095  | 8,542   | 1,088  | 899    | 105    | 42     | 110       | 65     |
| 55 - 59     | 11,036  | 6,451   | 742    | 759    | 71     | 39     | 49        | 31     |
| 60 - 64     | 7,252   | 4,199   | 603    | 493    | 58     | 40     | 32        | 39     |
| 65 and over | 6,903   | 4,487   | 471    | 438    | 69     | 47     | 45        | 29     |

Source: Marianas Visitors Authority

**Table 8.14 CNMI Selected Visitor Arrivals by Age, Gender, and Country of Origin: Fiscal Year 1998**

| Age Group   | Japan   |         | Korea  |        | Taiwan |        | Hong Kong |        |
|-------------|---------|---------|--------|--------|--------|--------|-----------|--------|
|             | Male    | Female  | Male   | Female | Male   | Female | Male      | Female |
| Total       | 208,011 | 173,954 | 17,988 | 17,314 | 2,362  | 2,169  | 2,231     | 1,799  |
| 0 - 17      | 20,350  | 19,392  | 1,084  | 994    | 186    | 175    | 186       | 155    |
| 18 - 19     | 1,969   | 2,604   | 48     | 162    | 14     | 26     | 17        | 19     |
| 20 - 24     | 19,570  | 33,829  | 735    | 3,058  | 93     | 275    | 126       | 137    |
| 25 - 29     | 34,580  | 42,881  | 5,504  | 6,167  | 355    | 507    | 271       | 350    |
| 30 - 34     | 30,183  | 22,700  | 3,576  | 2,048  | 404    | 364    | 482       | 413    |
| 35 - 39     | 23,302  | 13,489  | 2,210  | 1,428  | 364    | 248    | 414       | 320    |
| 40 - 44     | 19,298  | 9,055   | 1,728  | 992    | 341    | 219    | 333       | 185    |
| 45 - 49     | 18,882  | 8,650   | 1,050  | 741    | 243    | 129    | 189       | 92     |
| 50 - 54     | 15,270  | 7,498   | 815    | 597    | 142    | 66     | 101       | 48     |
| 55 - 59     | 10,963  | 5,673   | 560    | 487    | 85     | 57     | 38        | 20     |
| 60 - 64     | 7,037   | 3,925   | 347    | 305    | 52     | 48     | 40        | 20     |
| 65 and over | 6,607   | 4,258   | 331    | 335    | 83     | 55     | 34        | 40     |

Source: Marianas Visitors Bureau

**CNMI Visitors by Age, Gender and Country of Origin**

Data on the age and gender of CNMI visitors reveal some interesting patterns. Visitors aged 20 to 29 years are significantly more likely to be female, regardless of country of origin. The pattern reverses, however, among visitors aged 30 years and above who are much more likely to be male. This trend is evident across all selected countries of origin. Data for 2000 were not available for this pressing.

**CNMI Visitors by Age and Country of Origin**

Young adult tourists in 1998 tended to be female and visitors aged 30 years and above tended to be male, regardless of country of origin.

Chapter 9  
HOUSING

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## Summary of Housing

This chapter summarizes housing trends in the CNMI, primarily between 1990 and 1995. Census data indicate that the number of CNMI housing units increased significantly over time to accommodate rapid population growth. In fact the number of units increased 47% between 1990 and 1995. The vast majority of new housing units were built on Saipan, where approximately 90% of the CNMI population resides. Housing construction in Tinian and Rota was more subdivided.

Over time, housing units generally improved in structure, as they were more likely to contain concrete roofs and walls, indoor kitchen facilities, and electric power. However, the proportion of housing units with complete plumbing facilities, actually decreased between 1990 and 1995, as many new units were built with incomplete plumbing. Approximately 40% of units had complete plumbing in 1995, compared to 72% in 1990. Units in Saipan were most likely to have complete plumbing (42%) in 1995 as compared to Tinian (16%) and Rota (19%). Three quarters of CNMI housing units received their water solely from public water systems, 16% used a combination of public and private systems and the remainder of units relied on alternative water sources.

In 1995, approximately 33% of all housing units were owner occupied, 43% were renter-occupied, and the rest involved arrangements where the occupants paid no cash rent.

Over all, 61% of CNMI'S housing units in 1995 had telephone connections, 85% had radios, and 87% had television sets. Between 1990

and 1995, units were more likely to be equipped with these communication devices. Additionally, 90% of CNMI's housing units had cooking facilities, and over half of these units (57%) used electricity for cooking.

Over time, CNMI housing appears to have become less crowded. The median number of persons per room declined with Saipan, Tinian and Rota. Over all, the median number of persons per unit in the CNMI decreased from 5.4 in 1980 to 4.0 persons in 1995.

Lastly, over three-quarters (76%) of CNMI houses were valued at \$100,000 or above in 1995. Approximately 32% of these homes was appraised at \$500,000 or above. The concluding CNMI's median house value is presented in the concluding chapter of this yearbook, earning first place in house value compared to the mainland US and all US Insular areas.

### Total Housing Units

From 1990 to 1995, the CNMI showed an increase of 47% of the total number of occupied housing units. The rise in number of units reflects increased demand for housing by rapidly growing population.

**Table 9.1 Housing Units in Structure, CNMI: 1990 and 1995**

| Units in Structure | Number |       | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|--------------------|--------|-------|--------------------------------------|---------|-------|
|                    | 1995   | 1990  |                                      | 1995    | 1990  |
| Total              | 12,057 | 8,210 | 46.9                                 | 100.0   | 100.0 |
| 1, detached        | 6,702  | 5,864 | 14.3                                 | 55.6    | 71.4  |
| 1, attached        | 1,520  | 850   | 78.8                                 | 12.6    | 10.4  |
| 2                  | 286    | 126   | 127.0                                | 2.4     | 1.5   |
| 3 or 4             | 717    | 445   | 61.1                                 | 5.9     | 5.4   |
| 5 to 9             | 1,083  | 431   | 151.3                                | 9.0     | 5.2   |
| 10 to 19           | 671    | 276   | 143.1                                | 5.6     | 3.4   |
| 20 or more         | 466    | 71    | 556.3                                | 3.9     | 0.9   |
| Other              | 612    | 147   | 316.3                                | 5.1     | 1.8   |

Source: 1990 CPH-6-CNMI Table 101, and 1995 Mid-Decade Census Table 147

### Saipan Housing Units

The number of housing units in Saipan accounted for approximately 90% of all CNMI housing units in 1995. There were 10,844 total housing units in Saipan that year, the majority of which were single detached units (53%).

**Table 9.2 Housing Units in Structure, Saipan: 1990 and 1995**

| Units in Structure | Number |       | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|--------------------|--------|-------|--------------------------------------|---------|-------|
|                    | 1995   | 1990  |                                      | 1995    | 1990  |
| Total              | 10,844 | 7,251 | 49.6                                 | 100.0   | 100.0 |
| 1, detached        | 5,789  | 4,993 | 15.9                                 | 53.4    | 68.9  |
| 1, attached        | 1,364  | 801   | 70.3                                 | 12.6    | 11.0  |
| 2                  | 266    | 121   | 119.8                                | 2.5     | 1.7   |
| 3 or 4             | 688    | 433   | 58.9                                 | 6.3     | 6.0   |
| 5 to 9             | 1,032  | 417   | 147.5                                | 9.5     | 5.8   |
| 10 to 19           | 664    | 276   | 140.6                                | 6.1     | 3.8   |
| 20 or more         | 466    | 81    | 475.3                                | 4.3     | 1.1   |
| Other              | 575    | 129   | 345.7                                | 5.3     | 1.8   |

Source: 1990 CPH-6-CNMI Table 101, and 1995 Mid-Decade Census Table 147

**Table 9.3 Housing Units in Structure, Tinian: 1990 and 1995**

| Units in Structure | Number |      | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|--------------------|--------|------|--------------------------------------|---------|-------|
|                    | 1995   | 1990 |                                      | 1995    | 1990  |
| Total              | 522    | 429  | 21.7                                 | 100.0   | 100.0 |
| 1, detached        | 380    | 385  | -1.3                                 | 72.8    | 89.7  |
| 1, attached        | 82     | 27   | 203.7                                | 15.7    | 6.3   |
| 2                  | 9      | 2    | 350.0                                | 1.7     | 0.5   |
| 3 or 4             | 11     | 5    | 120.0                                | 2.1     | 1.2   |
| 5 to 9             | 25     | 7    | 257.1                                | 4.8     | 1.6   |
| 10 to 19           | 2      | 0    | ...                                  | 0.4     | 0.0   |
| 20 or more         | 0      | 0    | ...                                  | 0.0     | 0.0   |
| Other              | 13     | 3    | 333.3                                | 2.5     | 0.7   |

Source: 1990 CPH-6-CNMI Table 101, and 1995 Mid-Decade Census Table 147

**Table 9.4 Housing Units in Structure, Rota: 1990 and 1995**

| Units in Structure | Number |      | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|--------------------|--------|------|--------------------------------------|---------|-------|
|                    | 1995   | 1990 |                                      | 1995    | 1990  |
| Total              | 690    | 519  | 32.9                                 | 100.0   | 100.0 |
| 1, detached        | 532    | 475  | 12.0                                 | 77.1    | 91.5  |
| 1, attached        | 74     | 22   | 236.4                                | 10.7    | 4.2   |
| 2                  | 11     | 3    | 266.7                                | 1.6     | 0.6   |
| 3 or 4             | 18     | 7    | 157.1                                | 2.6     | 1.3   |
| 5 to 9             | 26     | 7    | 271.4                                | 3.8     | 1.3   |
| 10 to 19           | 5      | 0    | ...                                  | 0.7     | 0.0   |
| 20 or more         | 0      | 1    | -100.0                               | 0.0     | 0.2   |
| Other              | 24     | 4    | 500.0                                | 3.5     | 0.8   |

Source: 1990 CPH-6-CNMI Table 101, and 1995 Mid-Decade Census Table 147

**Table 9.5 Housing Units in Structure, CNMI: 1980 and 1990**

| Units in Structure | Number |       | Percent Change 1980 to 1990 | Percent |       |
|--------------------|--------|-------|-----------------------------|---------|-------|
|                    | 1990   | 1980  |                             | 1990    | 1980  |
| Total              | 8,210  | 3,522 | 133.1                       | 100.0   | 100.0 |
| 1, detached        | 5,864  | 3,004 | 95.2                        | 71.4    | 85.3  |
| 1, attached        | 850    | 62    | 1271.0                      | 10.4    | 1.8   |
| 2                  | 126    | 82    | 53.7                        | 1.5     | 2.3   |
| 3 or 4             | 445    | 67    | 564.2                       | 5.4     | 1.9   |
| 5 to 9             | 431    | 148   | 191.2                       | 5.2     | 4.2   |
| 10 to 19           | 276    | 148   | 86.5                        | 3.4     | 4.2   |
| 20 to 49           | 68     | 1     | 6700.0                      | 0.8     | 0.0   |
| 50 or more         | 3      | 1     | 200.0                       | 0.0     | 0.0   |
| Mobile home/t      | 11     | 9     | 22.2                        | 0.1     | 0.3   |
| Other              | 136    | 9     | 1411.1                      | 1.7     | 0.3   |

Source: HC 80-1-A57A, Table 9, and 1990 CPH-6-CNMI, Table 101

### Housing Units by Islands

Approximately 90% of all CNMI housing units in 1995 were located in Saipan the region's residential and commercial center.

### Housing Units In Rota And Tinian

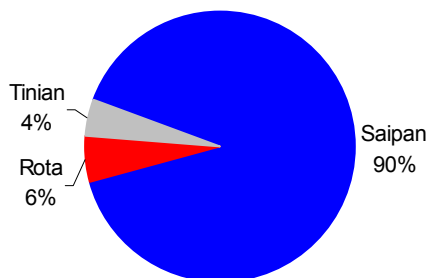
The growth in number of housing units on Rota and Tinian was more modest than on Saipan between 1990 and 1995. By 1995, there were 690 housing units in Rota and 522 units in Tinian.

**Table 9.6 Housing Units in Structure by Island: 1995**

| Units in Structure | Numbers |        |      |        |         | Percent |        |      |        |         |
|--------------------|---------|--------|------|--------|---------|---------|--------|------|--------|---------|
|                    | Total   | Saipan | Rota | Tinian | N. Isl. | Total   | Saipan | Rota | Tinian | N. Isl. |
| Total              | 12,057  | 10,844 | 690  | 522    | 1       | 100.0   | 89.9   | 5.7  | 4.3    | 0.0     |
| 1, detached        | 6,702   | 5,789  | 532  | 380    | 1       | 55.6    | 53.4   | 77.1 | 72.8   | 100.0   |
| 1, attached        | 1,520   | 1,364  | 74   | 82     | 0       | 12.6    | 12.6   | 10.7 | 15.7   | 0.0     |
| 2                  | 286     | 266    | 11   | 9      | 0       | 2.4     | 2.5    | 1.6  | 1.7    | 0.0     |
| 3 or 4             | 717     | 688    | 18   | 11     | 0       | 5.9     | 6.3    | 2.6  | 2.1    | 0.0     |
| 5 to 9             | 1,083   | 1,032  | 26   | 25     | 0       | 9.0     | 9.5    | 3.8  | 4.8    | 0.0     |
| 10 to 19           | 671     | 664    | 5    | 2      | 0       | 5.6     | 6.1    | 0.7  | 0.4    | 0.0     |
| 20 or more         | 466     | 466    | 0    | 0      | 0       | 3.9     | 4.3    | 0.0  | 0.0    | 0.0     |
| Other              | 612     | 575    | 24   | 13     | 0       | 5.1     | 5.3    | 3.5  | 2.5    | 0.0     |

Source: 1995 Mid-Decade Census Table Table 147

Figure 9.1 Distribution of Occupied Housing Units by Islands, 1995

**Table 9.7 Housing Units in Structure by Island: 1990**

| Units in Structure | Numbers |        |      |        |         | Percent |        |       |        |         |
|--------------------|---------|--------|------|--------|---------|---------|--------|-------|--------|---------|
|                    | Total   | Saipan | Rota | Tinian | N. Isl. | Total   | Saipan | Rota  | Tinian | N. Isl. |
| Total              | 8,210   | 7,251  | 519  | 429    | 11      | 100.0   | 100.0  | 100.0 | 100.0  | 100.0   |
| 1, detached        | 5,864   | 4,993  | 475  | 385    | 11      | 71.4    | 68.9   | 91.5  | 89.7   | 100.0   |
| 1, attached        | 850     | 801    | 22   | 27     | 0       | 10.4    | 11.0   | 4.2   | 6.3    | 0.0     |
| 2                  | 126     | 121    | 3    | 2      | 0       | 1.5     | 1.7    | 0.6   | 0.5    | 0.0     |
| 3 or 4             | 445     | 433    | 7    | 5      | 0       | 5.4     | 6.0    | 1.3   | 1.2    | 0.0     |
| 5 to 9             | 431     | 417    | 7    | 7      | 0       | 5.2     | 5.8    | 1.3   | 1.6    | 0.0     |
| 10 to 19           | 276     | 276    | 0    | 0      | 0       | 3.4     | 3.8    | 0.0   | 0.0    | 0.0     |
| 20 to 49           | 68      | 67     | 1    | 0      | 0       | 0.8     | 0.9    | 0.2   | 0.0    | 0.0     |
| 50 or more         | 3       | 3      | 0    | 0      | 0       | 0.0     | 0.0    | 0.0   | 0.0    | 0.0     |
| Boat               | 0       | 0      | 0    | 0      | 0       | 0.0     | 0.0    | 0.0   | 0.0    | 0.0     |
| Mobile home        | 11      | 11     | 0    | 0      | 0       | 0.1     | 0.2    | 0.0   | 0.0    | 0.0     |
| Other              | 136     | 129    | 4    | 3      | 0       | 1.7     | 1.8    | 0.8   | 0.7    | 0.0     |

Source: 1990 CPH-6-CNMI, Table 101

**Table 9.8 Year Structure Built by Island: 1995**

| Year Structure was Built | Total  | Island |      |        |            |
|--------------------------|--------|--------|------|--------|------------|
|                          |        | Saipan | Rota | Tinian | North. Is. |
| Total                    | 12,057 | 10,844 | 690  | 522    | 1          |
| 1994-M arch 1995         | 666    | 589    | 49   | 28     | 0          |
| 1990-1993                | 2,641  | 2,300  | 199  | 142    | 0          |
| 1980-1989                | 3,422  | 2,907  | 253  | 261    | 1          |
| 1970-1979                | 790    | 645    | 97   | 48     | 0          |
| 1960-1969                | 264    | 239    | 18   | 7      | 0          |
| 1950-1959                | 138    | 134    | 1    | 3      | 0          |
| 1940-1949                | 34     | 31     | 0    | 3      | 0          |
| 1939 or earlier          | 22     | 19     | 2    | 1      | 0          |

Source: 1995 CNM IM i-Decade Census Table 147

**Table 9.9 Year Structure Built by Island: 1990**

| Year Structure was Built | Total | Island |      |        |            |
|--------------------------|-------|--------|------|--------|------------|
|                          |       | Saipan | Rota | Tinian | North. Is. |
| Total                    | 8,210 | 7,251  | 519  | 429    | 11         |
| 1989-M arch 1990         | 1,793 | 1,591  | 96   | 106    | 0          |
| 1985-1988                | 2,950 | 2,595  | 201  | 147    | 7          |
| 1980-1984                | 1,563 | 1,383  | 86   | 93     | 1          |
| 1970-1979                | 1,095 | 938    | 101  | 54     | 2          |
| 1960-1969                | 523   | 479    | 26   | 17     | 1          |
| 1950-1959                | 203   | 187    | 5    | 11     | 0          |
| 1940-1949                | 51    | 47     | 4    | 0      | 0          |
| Before 1940              | 32    | 31     | 0    | 1      | 0          |

Source: 1990 CPH -6-CNMI, Table 101

**Table 9.10 Material for Outside Walls, CNMI 1980, 1990, and 1995**

| Type of Material | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 12,057 | 8,210 | 3,373 | 46.9           | 143.4   | 100.0   | 100.0 | 100.0 |
| Concrete         | 8,619  | 5,460 | 1,408 | 57.9           | 287.8   | 71.5    | 66.5  | 41.7  |
| Poured           | 1,733  | 941   | 223   | 84.2           | 322.0   | 14.4    | 11.5  | 6.6   |
| Blcks            | 6,886  | 4,519 | 1,185 | 52.4           | 281.4   | 57.1    | 55.0  | 35.1  |
| Metal            | 1,695  | 1,625 | 1,068 | 4.3            | 52.2    | 14.1    | 19.8  | 31.7  |
| Wood             | 1,649  | 1,106 | 895   | 49.1           | 23.6    | 13.7    | 13.5  | 26.5  |
| Other            | 94     | 19    | 2     | 394.7          | 850.0   | 0.8     | 0.2   | 0.1   |
| Unknown          | 0      | 0     | 0     | ...            | ...     | 0.0     | 0.0   | 0.0   |

Source: HC 80-1-A57A Table 9, 1990 CPH -6-CNMI Table 105, and 1995 Census M i-Decade Ta

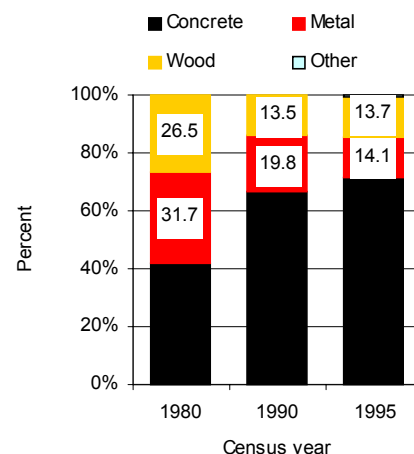
**Year Structures were Built**

More than half of all existing units in 1995 were built between 1980 and 1995, a period of high growth in population and economic development in the CNMI.

**Outside Wall Materials**

In 1995, over 71% of all housing units had concrete walls, over 14% had metal walls and over 13% had wooden walls. This was a major change from 1980 when more than half of all housing units had either metal or wooden walls.

**Figure 9.2 Materials for Outside Walls, 1980, 1990 and 1995**





**Table 9.11 Material for Outside Walls, Saipan: 1980, 1990, and 1995**

| Type of Material | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 10,844 | 7,251 | 2,895 | 49.6           | 150.5   | 100.0   | 100.0 | 100.0 |
| Concrete         | 7,810  | 4,928 | 1,240 | 58.5           | 297.4   | 72.0    | 68.0  | 42.8  |
| Poured           | 1,634  | 890   | 215   | 83.6           | 314.0   | 15.1    | 12.3  | 7.4   |
| Blocks           | 6,176  | 4,038 | 1,025 | 52.9           | 294.0   | 57.0    | 55.7  | 35.4  |
| Metal            | 1,420  | 1,263 | 853   | 12.4           | 48.1    | 13.1    | 17.4  | 29.5  |
| Wood             | 1,529  | 1,045 | 800   | 46.3           | 30.6    | 14.1    | 14.4  | 27.6  |
| Other            | 85     | 15    | 2     | 466.7          | 650.0   | 0.8     | 0.2   | 0.1   |
| Unknown          | 0      | 0     | 0     | ...            | ...     | 0.0     | 0.0   | 0.0   |

Source: HC 80-1-A57A Table 9, 1990 CPH-6-CNM I Table 105, and 1995 Census M II-Decade Table 148

**Table 9.12 Material for Outside Walls, Tinian: 1980, 1990, and 1995**

| Type of Material | Number |      |      | Percent Change |         | Percent |       |       |
|------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                  |        |      |      | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 522    | 429  | 179  | 21.7           | 139.7   | 100.0   | 100.0 | 100.0 |
| Concrete         | 347    | 205  | 31   | 69.3           | 561.3   | 66.5    | 47.8  | 17.3  |
| Poured           | 35     | 9    | 4    | 288.9          | 125.0   | 6.7     | 2.1   | 2.2   |
| Blocks           | 312    | 196  | 27   | 59.2           | 625.9   | 59.8    | 45.7  | 15.1  |
| Metal            | 107    | 195  | 124  | -45.1          | 57.3    | 20.5    | 45.5  | 69.3  |
| Wood             | 66     | 29   | 24   | 127.6          | 20.8    | 12.6    | 6.8   | 13.4  |
| Other            | 2      | 0    | 0    | ...            | ...     | 0.4     | 0.0   | 0.0   |
| Unknown          | 0      | 0    | 0    | ...            | ...     | 0.0     | 0.0   | 0.0   |

Source: HC 80-1-A57A Table 9, 1990 CPH-6-CNM I Table 105, and 1995 Census M II-Decade Table 148

**Table 9.13 Material for Outside Walls, Rota: 1980, 1990, and 1995**

| Type of Material | Number |      |      | Percent Change |         | Percent |       |       |
|------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                  |        |      |      | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 690    | 519  | 285  | 32.9           | 82.1    | 100.0   | 100.0 | 100.0 |
| Concrete         | 462    | 326  | 137  | 41.7           | 138.0   | 67.0    | 62.8  | 48.1  |
| Poured           | 64     | 42   | 4    | 52.4           | 950.0   | 9.3     | 8.1   | 1.4   |
| Blocks           | 398    | 284  | 133  | 40.1           | 113.5   | 57.7    | 54.7  | 46.7  |
| Metal            | 167    | 161  | 79   | 3.7            | 103.8   | 24.2    | 31.0  | 27.7  |
| Wood             | 54     | 28   | 69   | 92.9           | -59.4   | 7.8     | 5.4   | 24.2  |
| Other            | 7      | 4    | 0    | 75.0           | ...     | 1.0     | 0.8   | 0.0   |
| Unknown          | 0      | 0    | 0    | ...            | ...     | 0.0     | 0.0   | 0.0   |

Source: HC 80-1-A57A Table 9, 1990 CPH-6-CNM I Table 105, and 1995 Census M II-Decade Table 148

**Table 9.14 Material for Roof, CNMI: 1980, 1990, and 1995**

| Type of Material | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 12,057 | 8,210 | 3,373 | 46.9           | 143.4   | 100.0   | 100.0 | 100.0 |
| Concrete         | 6,081  | 3,952 | 1,125 | 53.9           | 251.3   | 50.4    | 48.1  | 33.4  |
| Metal            | 5,557  | 4,064 | 2,019 | 36.7           | 101.3   | 46.1    | 49.5  | 59.9  |
| Wood             | 317    | 124   | 206   | 155.6          | -39.8   | 2.6     | 1.5   | 6.1   |
| Thatch           | 12     | 9     | 1     | 33.3           | 800.0   | 0.1     | 0.1   | 0.0   |
| Other            | 90     | 61    | 22    | 47.5           | 177.3   | 0.7     | 0.7   | 0.7   |

Source: 1980 Census Table 9, 1990 Census Table 105, and 1995 CNMI Decade Census Table 1

**Roof Materials**

Also in 1995, over 50% of all units had concrete roofs and 46% had metal roofs. This was a major change from 1980 when only 33% of housing units had concrete roofs and approximately 60% had metal roofs.

**Table 9.15 Material for Roof, Saipan: 1980, 1990, and 1995**

| Type of Material | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 10,844 | 7,251 | 2,895 | 49.6           | 150.5   | 100.0   | 100.0 | 100.0 |
| Concrete         | 5,454  | 3,543 | 993   | 53.9           | 256.8   | 50.3    | 48.9  | 34.3  |
| Metal            | 5,035  | 3,518 | 1,683 | 43.1           | 109.0   | 46.4    | 48.5  | 58.1  |
| Wood             | 258    | 122   | 197   | 111.5          | -38.1   | 2.4     | 1.7   | 6.8   |
| Thatch           | 12     | 9     | 0     | 33.3           | ...     | 0.1     | 0.1   | 0.0   |
| Other            | 85     | 59    | 22    | 44.1           | 168.2   | 0.8     | 0.8   | 0.8   |

Source: 1980 Census Table 9, 1990 Census Table 105, and 1995 CNMI Decade Census Table 148

**Table 9.16 Material for Roof, Tinian: 1980, 1990, and 1995**

| Type of Material | Number |      |      | Percent Change |         | Percent |       |       |
|------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                  |        |      |      | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 522    | 429  | 179  | 21.7           | 139.7   | 100.0   | 100.0 | 100.0 |
| Concrete         | 244    | 130  | 16   | 87.7           | 712.5   | 46.7    | 30.3  | 8.9   |
| Metal            | 221    | 299  | 156  | -26.1          | 91.7    | 42.3    | 69.7  | 87.2  |
| Wood             | 56     | 0    | 7    | ...            | -100.0  | 10.7    | 0.0   | 3.9   |
| Thatch           | 0      | 0    | 0    | ...            | ...     | 0.0     | 0.0   | 0.0   |
| Other            | 1      | 0    | 0    | ...            | ...     | 0.2     | 0.0   | 0.0   |

Source: 1980 Census Table 9, 1990 Census Table 105, and 1995 CNMI Decade Census Table 148

**Table 9.17 Material for Roof, Rota: 1980, 1990, and 1995**

| Type of Material | Number |      |      | Percent Change |         | Percent |       |       |
|------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                  |        |      |      | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 690    | 519  | 285  | 32.9           | 82.1    | 100.0   | 100.0 | 100.0 |
| Concrete         | 383    | 279  | 116  | 37.3           | 140.5   | 55.5    | 53.8  | 40.7  |
| Metal            | 300    | 236  | 166  | 27.1           | 42.2    | 43.5    | 45.5  | 58.2  |
| Wood             | 3      | 2    | 2    | 50.0           | 0.0     | 0.4     | 0.4   | 0.7   |
| Thatch           | 0      | 0    | 1    | ...            | -100.0  | 0.0     | 0.0   | 0.4   |
| Other            | 4      | 2    | 0    | 100.0          | ...     | 0.6     | 0.4   | 0.0   |

Source: 1980 Census Table 9, 1990 Census Table 105, and 1995 CNM IM II-Decade Census Table 148

**Table 9.18 Material for Roof, 1967, 1980, and 1990**

| Type of Material | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1980 to        | 1967 to |         |       |       |
|                  | 1990   | 1980  | 1967  | 1990           | 1980    | 1990    | 1980  | 1967  |
| Total            | 8,210  | 3,373 | 1,640 | 143.4          | 105.7   | 100.0   | 100.0 | 100.0 |
| Concrete         | 3,952  | 1,125 | 149   | 251.3          | 655.0   | 48.1    | 33.4  | 9.1   |
| Metal            | 4,064  | 2,019 | 1,405 | 101.3          | 43.7    | 49.5    | 59.9  | 85.7  |
| Wood             | 124    | 206   | (NA)  | -39.8          | (NA)    | 1.5     | 6.1   | (NA)  |
| Thatch           | 9      | 1     | 29    | 800.0          | -96.6   | 0.1     | 0.0   | 1.8   |
| Other            | 61     | 22    | 33    | 177.3          | -33.3   | 0.7     | 0.7   | 2.0   |
| Unknown          |        | 0     | 24    | ...            | (NA)    | 0.0     | 0.0   | 1.5   |

Source: HC80-1-A57A, Table 9, 1967 Peace Corps Census, and 1990 CPH-6-CNMI Table 105

## Plumbing

About 40% of housing units had complete plumbing and over half of these units (57%) had both hot and cold water.

**Table 9.19 Plumbing Facilities, CNMI: 1990 and 1995**

| Plumbing Facilities       | Number |       | Percent Change 1990 to 1995 | Percent |       |
|---------------------------|--------|-------|-----------------------------|---------|-------|
|                           | 1995   | 1990  |                             | 1995    | 1990  |
| Total                     | 12,057 | 8,210 | 46.9                        | 100.0   | 100.0 |
| With complete plumbing    | 4,807  | 5,920 | -18.8                       | 39.9    | 72.1  |
| With hot & cold water     | 2,730  | 2,849 | -4.2                        | 22.6    | 34.7  |
| With cold water only      | 2,077  | 3,071 | -32.4                       | 17.2    | 37.4  |
| Lacking complete plumbing | 7,250  | 2,290 | 216.6                       | 60.1    | 27.9  |

Source: 1990 CPH-6-CNMI Table 103, and 1995 CNM IM II-Decade Census Table 150

**Table 9.20 Plumbing Facilities, Saipan: 1990 and 1995**

| Plumbing Facilities       | Number |       | Percent<br>Change<br>1990 to | Percent |       |
|---------------------------|--------|-------|------------------------------|---------|-------|
|                           | 1995   | 1990  | 1995                         | 1995    | 1990  |
| Total                     | 10,844 | 1,882 | 476.2                        | 100.0   | 100.0 |
| With complete plumbing    | 4,596  | 731   | 528.7                        | 42.4    | 38.8  |
| With hot & cold water     | 2,609  | 309   | 744.3                        | 24.1    | 16.4  |
| With cold water only      | 1,987  | 422   | 370.9                        | 18.3    | 22.4  |
| Lacking complete plumbing | 6,248  | 1,151 | 442.8                        | 57.6    | 61.2  |

Source: 1990 CPH-6-CNM I Table 103, and 1995 CNM IM II-Decade Census Table 150

**Table 9.21 Plumbing Facilities, Tinian: 1990 and 1995**

| Plumbing Facilities       | Number |      | Percent<br>Change<br>1990 to | Percent |       |
|---------------------------|--------|------|------------------------------|---------|-------|
|                           | 1995   | 1990 | 1995                         | 1995    | 1990  |
| Total                     | 522    | 249  | 109.6                        | 100.0   | 100.0 |
| With complete plumbing    | 82     | 168  | -51.2                        | 15.7    | 67.5  |
| With hot & cold water     | 41     | 70   | -41.4                        | 7.9     | 28.1  |
| With cold water only      | 41     | 98   | -58.2                        | 7.9     | 39.4  |
| Lacking complete plumbing | 440    | 81   | 443.2                        | 84.3    | 32.5  |

Source: 1990 CPH-6-CNM I Table 103, and 1995 CNM IM II-Decade Census Table 150

**Table 9.22 Plumbing Facilities, Rota: 1990 and 1995**

| Plumbing Facilities       | Number |      | Percent<br>Change<br>1990 to | Percent |       |
|---------------------------|--------|------|------------------------------|---------|-------|
|                           | 1995   | 1990 | 1995                         | 1995    | 1990  |
| Total                     | 690    | 194  | 255.7                        | 100.0   | 100.0 |
| With complete plumbing    | 129    | 56   | 130.4                        | 18.7    | 28.9  |
| With hot & cold water     | 80     | 31   | 158.1                        | 11.6    | 16.0  |
| With cold water only      | 49     | 25   | 96.0                         | 7.1     | 12.9  |
| Lacking complete plumbing | 561    | 138  | 306.5                        | 81.3    | 71.1  |

Source: 1990 CPH-6-CNM I Table 103, and 1995 CNM IM II-Decade Census Table 150

**Table 9.23 Source of Water, CNM I: 1990 and 1995**

| Plumbing Facilities                | Number |       | Percent<br>Change<br>1990 to | Percent |       |
|------------------------------------|--------|-------|------------------------------|---------|-------|
|                                    | 1995   | 1990  | 1995                         | 1995    | 1990  |
| Total                              | 12,057 | 8,210 | 46.9                         | 100.0   | 100.0 |
| Public system only                 | 9,389  | 5,462 | 71.9                         | 77.9    | 66.5  |
| Public system and catchment        | 1,921  | 2,236 | -14.1                        | 15.9    | 27.2  |
| Catchment, tanks, or drums only    | 456    | 267   | 70.8                         | 3.8     | 3.3   |
| Individual well                    | ...    | 123   | ...                          | ...     | 1.5   |
| Public standpipe or street hydrant | 35     | 6     | 483.3                        | 0.3     | 0.1   |
| Other source                       | 256    | 116   | 120.7                        | 2.1     | 1.4   |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM II-Decade Census Table 151

**Plumbing Facilities By Island**

Saipan's housing units were most likely to have complete plumbing in 1995, followed by Rota and Tinian.

Approximately 42% of Saipan's units had complete plumbing, compared to 19% in Rota and 16% in Tinian.

**Source of Water**

In 1995, almost 78% of housing units received their water solely from the public water system, 16% depended on both the public water system and private water catchments, and about 4% relied solely on private water catchment systems. In 1990, over 66% of housing units received their water from the public system only.

### Source Of Water By Island

Saipan's housing units were more likely to use both a public water system and catchment (17.6%) in 1995, followed by Rota and Tinian where less than 1% of units were connected to both water sources.

**Table 9.24 Source of Water, Saipan: 1990 and 1995**

| Plumbing Facilities                | Number |       | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|------------------------------------|--------|-------|--------------------------------------|---------|-------|
|                                    | 1995   | 1990  |                                      | 1995    | 1990  |
| Total                              | 10,844 | 7,251 | 49.6                                 | 100.0   | 100.0 |
| Public system only                 | 8,232  | 4,646 | 77.2                                 | 75.9    | 64.1  |
| Public system and catchment        | 1,909  | 2,212 | -13.7                                | 17.6    | 30.5  |
| Catchment, tanks, or drums only    | 437    | 151   | 189.4                                | 4.0     | 2.1   |
| Individual well                    | 0      | 121   | ...                                  | ...     | 1.7   |
| Public standpipe or street hydrant | 28     | 6     | 366.7                                | 0.3     | 0.1   |
| Other source                       | 238    | 115   | 107.0                                | 2.2     | 1.6   |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM II-Decade Census Table 151

**Table 9.25 Source of Water, Tinian: 1990 and 1995**

| Plumbing Facilities                | Number |      | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|------------------------------------|--------|------|--------------------------------------|---------|-------|
|                                    | 1995   | 1990 |                                      | 1995    | 1990  |
| Total                              | 544    | 429  | 26.8                                 | 100.0   | 100.0 |
| Public system only                 | 511    | 373  | 37.0                                 | 93.9    | 86.9  |
| Public system and catchment        | 4      | 14   | -71.4                                | 0.7     | 3.3   |
| Catchment, tanks, or drums only    | 10     | 41   | -75.6                                | 1.8     | 9.6   |
| Individual well                    | 0      | 1    | ...                                  | ...     | 0.2   |
| Public standpipe or street hydrant | 4      | 0    | ...                                  | 0.7     | 0.0   |
| Other source                       | 15     | 0    | ...                                  | 2.8     | 0.0   |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM II-Decade Census Table 151

**Table 9.26 Source of Water, Rota: 1990 and 1995**

| Plumbing Facilities                | Number |      | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|------------------------------------|--------|------|--------------------------------------|---------|-------|
|                                    | 1995   | 1990 |                                      | 1995    | 1990  |
| Total                              | 690    | 509  | 35.6                                 | 100.0   | 100.0 |
| Public system only                 | 642    | 433  | 48.3                                 | 93.0    | 85.1  |
| Public system and catchment        | 6      | 10   | -40.0                                | 0.9     | 2.0   |
| Catchment, tanks, or drums only    | 19     | 65   | -70.8                                | 2.8     | 12.8  |
| Individual well                    | 0      | 1    | ...                                  | ...     | 0.2   |
| Public standpipe or street hydrant | 7      | 0    | ...                                  | 1.0     | 0.0   |
| Other source                       | 16     | 0    | ...                                  | 2.3     | 0.0   |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM II-Decade Census Table 151

**Table 9.27 Source of Water by Island: 1995**

| Source of Water                    | Total  | Island |      |        |            |
|------------------------------------|--------|--------|------|--------|------------|
|                                    |        | Saipan | Rota | Tinian | North. Is. |
| Total                              | 12,057 | 10,844 | 690  | 522    | 1          |
| Public system only                 | 9,389  | 8,232  | 642  | 515    | 0          |
| Public system and catchment        | 1,921  | 1,909  | 6    | 6      | 0          |
| Catchment, drums, or tanks only    | 456    | 437    | 19   | 0      | 0          |
| Public standpipe or street hydrant | 35     | 28     | 7    | 0      | 0          |
| Some other source                  | 256    | 238    | 16   | 1      | 1          |

Source: 1995 CNM IM II-Decade Census Table 151

**Table 9.28 Sewage Disposal by Island and Percentage: 1990 and 1995**

| Sewage Disposal      | 1995   |        |      |        |        | 1990  |        |      |        |        |
|----------------------|--------|--------|------|--------|--------|-------|--------|------|--------|--------|
|                      | Total  | Saipan | Rota | Tinian | N. El. | Total | Saipan | Rota | Tinian | N. El. |
| Total Units          | 12,057 | 10,844 | 690  | 522    | 1      | 8,210 | 7,251  | 519  | 429    | 11     |
| Public sewer         | 4,226  | 38.5   | 2.5  | 6.7    | 0.0    | 2,759 | 37.6   | 2.5  | 3.7    | 0.0    |
| Septic tank/cesspool | 6,922  | 54.0   | 88.1 | 88.3   | 100.0  | 3,951 | 45.6   | 73.0 | 61.1   | 0.0    |
| Other means          | 909    | 7.5    | 9.4  | 5.0    | 0.0    | 1,500 | 16.7   | 24.5 | 35.2   | 100.0  |

Source: 1995 CNM IM 11-Decade Census Table 151; 1990 CNM ICensus Table 104

**Table 9.29 Electricity, Cooking Facilities, and Refrigerator, CNM I: 1990 and 1995**

| Characteristic     | Number |       | Percent Change 1990 to 1995 | Percent |       |
|--------------------|--------|-------|-----------------------------|---------|-------|
|                    | 1995   | 1990  |                             | 1995    | 1990  |
| Total Units        | 12,057 | 8,210 | 46.9                        | 100.0   | 100.0 |
| Electricity        | 11,800 | 7,481 | 57.7                        | 97.9    | 91.1  |
| Cooking Facilities | 11,890 | 7,209 | 64.9                        | 98.6    | 87.8  |
| Refrigerator       | 10,853 | 6,787 | 59.9                        | 90.0    | 82.7  |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM 11-Decade Census Table 152

**Table 9.30 Electricity, Cooking Facilities, and Refrigerator, Saipan: 1990 and 1995**

| Characteristic     | Number |       | Percent Change 1990 to 1995 | Percent |       |
|--------------------|--------|-------|-----------------------------|---------|-------|
|                    | 1995   | 1990  |                             | 1995    | 1990  |
| Total Units        | 10,844 | 7,251 | 49.6                        | 100.0   | 100.0 |
| Electricity        | 10,670 | 6,699 | 59.3                        | 98.4    | 92.4  |
| Cooking Facilities | 10,691 | 6,847 | 56.1                        | 98.6    | 94.4  |
| Refrigerator       | 9,821  | 6,141 | 59.9                        | 90.6    | 84.7  |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM 11-Decade Census Table 152

**Table 9.31 Electricity, Cooking Facilities, and Refrigerator, Tinian: 1990 and 1995**

| Characteristic     | Number |      | Percent Change 1990 to 1995 | Percent |       |
|--------------------|--------|------|-----------------------------|---------|-------|
|                    | 1995   | 1990 |                             | 1995    | 1990  |
| Total              | 522    | 429  | 21.7                        | 100.0   | 100.0 |
| Electricity        | 516    | 370  | 39.5                        | 98.9    | 86.2  |
| Cooking Facilities | 519    | 403  | 28.8                        | 99.4    | 93.9  |
| Refrigerator       | 490    | 330  | 48.5                        | 93.9    | 76.9  |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM 11-Decade Census Table 152

**Sewage Disposal**

Approximately 35% of housing units were connected to public sewer systems, about 57% were using septic tanks/cesspools, and about 8 percent used other means of sewage disposal in 1995.

**Equipment And Facilities**

More housing units had electricity, cooking facilities, and refrigerators in 1995 than in 1990. Over all about 98% of housing units had electricity 99% had cooking facilities, and 90% had refrigerators in 1995. The proportion of housing units with electricity was 98% in Saipan, 99% in Tinian, and 89% in Rota.

Nearly 99% of Saipan's housing units had cooking facilities and 91% had refrigerators in 1995.

Approximately 89% of Rota's housing units had electricity, 98% contained cooking facilities, and 79% had refrigerators in 1995.

Approximately 98% of Tinian units had electricity, 99% contained cooking facilities, and about 94% had refrigerators in 1995.

**Table 9.32 Electricity, Cooking Facilities, and Refrigerator,  
Rota: 1990 and 1995**

| Characteristic     | Number |      | Percent<br>Change<br>1990 to<br>1995 | Percent |       |
|--------------------|--------|------|--------------------------------------|---------|-------|
|                    | 1995   | 1990 |                                      | 1995    | 1990  |
| Total              | 690    | 519  | 32.9                                 | 100.0   | 100.0 |
| Electricity        | 614    | 412  | 49.0                                 | 89.0    | 79.4  |
| Cooking Facilities | 679    | 438  | 55.0                                 | 98.4    | 84.4  |
| Refrigerator       | 542    | 337  | 60.8                                 | 78.6    | 64.9  |

Source: 1990 CPH-6-CNM I Table 104, and 1995 CNM IM II-Decade Census Table 152

**Table 9.33 Electric Power by Island and Percentage: 1990 and 1995**

| Electric Power   | 1995   |        |      |        |        | 1990  |        |      |        |        |
|------------------|--------|--------|------|--------|--------|-------|--------|------|--------|--------|
|                  | Total  | Saipan | Rota | Tinian | N. El. | Total | Saipan | Rota | Tinian | N. El. |
| Total            | 12,057 | 10,844 | 690  | 522    | 1      | 8,210 | 7,251  | 519  | 429    | 11     |
| With electricity | 11,800 | 98.4   | 89.0 | 98.9   | 0.0    | 7,481 | 92.4   | 79.4 | 86.2   | 0.0    |
| No electricity   | 257    | 1.6    | 11.0 | 1.1    | 100.0  | 729   | 7.6    | 20.6 | 13.8   | 100.0  |

Source: 1995 CNM IM II-Decade Census Table 152; 1990 CNM I Census Table 104

### Home Air Conditioning

In 1995, Over 67% of total CNMI occupied housing units had air conditioning; over 68% of Saipan's, over 58% of Rota's and about 66% of Tinian's total occupied units had air conditioning.

**Table 9.34 Air Conditioning by Island and Percentage: 1990 and 1995**

| Air Conditioning     | 1995   |        |      |        |        | 1990  |        |      |        |        |
|----------------------|--------|--------|------|--------|--------|-------|--------|------|--------|--------|
|                      | Total  | Saipan | Rota | Tinian | N. El. | Total | Saipan | Rota | Tinian | N. El. |
| Total                | 12,057 | 10,844 | 690  | 522    | 1      | 8,210 | 7,251  | 519  | 429    | 11     |
| None                 | 3,897  | 31.7   | 41.4 | 33.3   | 100.0  | 3,974 | 46.6   | 58.4 | 65.5   | 100.0  |
| Central system       | 1,259  | 11.1   | 4.2  | 5.6    | 0.0    | 299   | 3.8    | 1.7  | 2.8    | 0.0    |
| Individual Room      | 3,981  | 33.4   | 27.1 | 32.2   | 0.0    | 2,175 | 27.2   | 21.0 | 22.4   | 0.0    |
| 2 or more room units | 2,920  | 23.8   | 27.2 | 28.9   | 0.0    | 1,762 | 22.4   | 18.9 | 9.3    | 0.0    |

Source: 1995 CNM IM II-Decade Census Table 152; 1990 CNM I Census Table 104

**Table 9.35 Refrigerator by Island and Percentage: 1990 and 1995**

| Refrigerator    | 1995   |        |      |        |        | 1990  |        |      |        |        |
|-----------------|--------|--------|------|--------|--------|-------|--------|------|--------|--------|
|                 | Total  | Saipan | Rota | Tinian | N. El. | Total | Saipan | Rota | Tinian | N. El. |
| Total           | 12,057 | 10,844 | 690  | 522    | 1      | 8,210 | 7,251  | 519  | 429    | 11     |
| Electric        | 10,806 | 90.2   | 78.3 | 93.3   | 0.0    | 6,787 | 84.4   | 64.5 | 76.9   | 0.0    |
| Gas             | 47     | 0.4    | 0.3  | 0.6    | 0.0    | 21    | 0.3    | 0.4  | 0.0    | 0.0    |
| No refrigerator | 1,204  | 9.4    | 21.4 | 6.1    | 100.0  | 1,402 | 15.3   | 35.1 | 23.1   | 100.0  |

Source: 1995 CNM IM II-Decade Census Table 152

### Home Refrigerators

In 1995, approximately 90% of CNMI occupied housing units had refrigerators. Approximately 90% of units in Saipan had refrigerators, compared to 94% in Tinian and 79% in Rota.

**Table 9.36 Telephone, Radio, and Television by Island: 1995**

| Telephone, Radio & Television | Numbers |        |      |        |         | Percent |        |      |        |         |
|-------------------------------|---------|--------|------|--------|---------|---------|--------|------|--------|---------|
|                               | Total   | Saipan | Rota | Tinian | N. Isl. | Total   | Saipan | Rota | Tinian | N. Isl. |
| Total                         | 12,057  | 10,844 | 690  | 522    | 1       | ...     | ...    | ...  | ...    | ...     |
| No telephone                  | 4,697   | 4,124  | 322  | 250    | 0       | 39.0    | 38.0   | 46.7 | 47.9   | 0.0     |
| No radio                      | 1,752   | 1,592  | 77   | 83     | 1       | 14.5    | 14.7   | 11.2 | 15.9   | 100.0   |
| No television                 | 1,576   | 1,348  | 168  | 59     | 0       | 13.1    | 12.4   | 24.3 | 11.3   | 0.0     |

Source: 1995 CNM IM 11-Decade Census Table 152

### Home Telephones, Radios and Televisions

In 1995, 39% of occupied housing units in the CNMI had no telephones, around 15% had no radios, and approximately 13% of units had no television. Over time, residents were somewhat more likely to own either a telephone, radio, or television in the CNMI.

**Table 9.37 Telephone, Radio, and Television by Island: 1990**

| Characteristic | Numbers |        |      |        |         | Percent |        |      |        |         |
|----------------|---------|--------|------|--------|---------|---------|--------|------|--------|---------|
|                | Total   | Saipan | Rota | Tinian | N. Isl. | Total   | Saipan | Rota | Tinian | N. Isl. |
| Total          | 8,210   | 7,251  | 519  | 429    | 11      | ...     | ...    | ...  | ...    | ...     |
| No telephone   | 2,724   | 2,290  | 217  | 211    | 6       | 33.2    | 31.6   | 41.8 | 49.2   | 54.5    |
| No radio       | 1,034   | 932    | 60   | 42     | 0       | 12.6    | 12.9   | 11.6 | 9.8    | 0.0     |
| No television  | 1,500   | 1,278  | 114  | 102    | 6       | 18.3    | 17.6   | 22.0 | 23.8   | 54.5    |

Source: 1990 CPH-6-CNMI, Table 104

**Table 9.38 Cooking Facilities and Fuel for Cooking by Island: 1995**

| Cooking Facilities and Fuel  | Numbers |        |      |        |         | Percent |        |       |        |         |
|------------------------------|---------|--------|------|--------|---------|---------|--------|-------|--------|---------|
|                              | Total   | Saipan | Rota | Tinian | N. Isl. | Total   | Saipan | Rota  | Tinian | N. Isl. |
| Total                        | 12,057  | 10,844 | 690  | 522    | 1       | 100.0   | 100.0  | 100.0 | 100.0  | 100.0   |
| Cook fac inside bldg         | 10,862  | 9,816  | 563  | 483    | 0       | 90.1    | 90.5   | 81.6  | 92.5   | 0.0     |
| Cook fac outside bldg        | 1,028   | 875    | 116  | 36     | 1       | 8.5     | 8.1    | 16.8  | 6.9    | 100.0   |
| No cooking facilities        | 167     | 153    | 11   | 3      | 0       | 1.4     | 1.4    | 1.6   | 0.6    | 0.0     |
| Complete kitchen fac         | 10,178  | 9,170  | 529  | 479    | 0       | 84.4    | 84.6   | 76.7  | 91.8   | 0.0     |
| Lacking complete kitchen fac | 1,879   | 1,674  | 161  | 43     | 1       | 15.6    | 15.4   | 23.3  | 8.2    | 100.0   |
| Some but not all kitchen fac | 1,795   | 1,602  | 149  | 43     | 1       | 14.9    | 14.8   | 21.6  | 8.2    | 100.0   |
| No kitchen facilities        | 84      | 72     | 12   | 0      | 0       | 0.7     | 0.7    | 1.7   | 0.0    | 0.0     |
| <b>FUEL FOR COOKING</b>      |         |        |      |        |         |         |        |       |        |         |
| Fuel used most for cooking   | 11,816  | 10,634 | 664  | 517    | 1       | 98.0    | 98.1   | 96.2  | 99.0   | 100.0   |
| Electricity                  | 6,883   | 6,180  | 339  | 364    | 0       | 57.1    | 57.0   | 49.1  | 69.7   | 0.0     |
| Gas: bottled or tank (LPG)   | 3,804   | 3,475  | 222  | 107    | 0       | 31.6    | 32.0   | 32.2  | 20.5   | 0.0     |
| Kerosene                     | 283     | 265    | 4    | 13     | 1       | 2.3     | 2.4    | 0.6   | 2.5    | 100.0   |
| Electricity and Gas          | 610     | 545    | 45   | 20     | 0       | 5.1     | 5.0    | 6.5   | 3.8    | 0.0     |
| Electricity and Kerosene     | 40      | 36     | 2    | 2      | 0       | 0.3     | 0.3    | 0.3   | 0.4    | 0.0     |
| Gas and Kerosene             | 21      | 16     | 4    | 1      | 0       | 0.2     | 0.1    | 0.6   | 0.2    | 0.0     |
| Elect., Gas, and Kerosene    | 23      | 16     | 1    | 6      | 0       | 0.2     | 0.1    | 0.1   | 1.1    | 0.0     |
| Other                        | 119     | 68     | 47   | 4      | 0       | 1.0     | 0.6    | 6.8   | 0.8    | 0.0     |
| No cooking facilities        | 74      | 57     | 15   | 2      | 0       | 0.6     | 0.5    | 2.2   | 0.4    | 0.0     |

Source: 1995 MI-Decade Census Table 152

### Home Cooking Facilities

Approximately, 90% of CNMI housing units had cooking facilities inside the building, 9% had cooking facilities outside the building and a little over 1% had no cooking facilities in 1995.

### Fuel for Cooking

About 57% of all CNMI housing units used electricity for cooking, 32% used LP Gas, 2% relied on kerosene in 1995.



**Table 9.39 Cooking Facilities by Island: 1990**

| Cooking Facilities                        | Numbers |       |      |        |       | Percent |       |       |        |       |
|---|---------|-------|------|--------|-------|---------|-------|-------|--------|-------|
|   | Total   | Sapan | Rota | Tinian | N. E. | Total   | Sapan | Rota  | Tinian | N. E. |
| Total                                     | 8,210   | 7,251 | 519  | 429    | 11    | 100.0   | 100.0 | 100.0 | 100.0  | 100.0 |
| Cook fac inside bldg                      | 7,209   | 6,472 | 361  | 373    | 3     | 87.8    | 89.3  | 69.6  | 86.9   | 27.3  |
| Electric stove                            | 5,375   | 4,870 | 251  | 254    | 0     | 65.5    | 67.2  | 48.4  | 59.2   | 0.0   |
| Kerosene stove                            | 489     | 459   | 11   | 19     | 0     | 6.0     | 6.3   | 2.1   | 4.4    | 0.0   |
| Gas stove                                 | 672     | 621   | 29   | 22     | 0     | 8.2     | 8.6   | 5.6   | 5.1    | 0.0   |
| Microwave oven and<br>Nonportable burners | 24      | 24    | 0    | 0      | 0     | 0.3     | 0.3   | 0.0   | 0.0    | 0.0   |
| Microwave oven only                       | 6       | 6     | 0    | 0      | 0     | 0.1     | 0.1   | 0.0   | 0.0    | 0.0   |
| Other                                     | 643     | 492   | 70   | 78     | 3     | 7.8     | 6.8   | 13.5  | 18.2   | 27.3  |
| Cook fac outside bldg                     | 490     | 375   | 77   | 30     | 8     | 6.0     | 5.2   | 14.8  | 7.0    | 72.7  |
| Electric stove                            | 125     | 105   | 12   | 8      | 0     | 1.5     | 1.4   | 2.3   | 1.9    | 0.0   |
| Kerosene stove                            | 82      | 69    | 10   | 3      | 0     | 1.0     | 1.0   | 1.9   | 0.7    | 0.0   |
| Gas stove                                 | 71      | 59    | 10   | 2      | 0     | 0.9     | 0.8   | 1.9   | 0.5    | 0.0   |
| Other                                     | 212     | 142   | 45   | 17     | 8     | 2.6     | 2.0   | 8.7   | 4.0    | 72.7  |
| No cooking facilities                     | 511     | 404   | 81   | 26     | 0     | 6.2     | 5.6   | 15.6  | 6.1    | 0.0   |

Source: 1990 CPH-6-CNMI, Table 104

### Rooms in Units

The number of rooms per occupied unit in the CNMI has remained relatively stable over time. The median number of rooms was 4.1 in 1980, similar to 4.4 in 1995.

**Table 9.40 Rooms in unit: 1980, 1990, and 1995**

| Rooms            | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  | 1995   | 1990  | 1980  | 1990 to        | 1980 to | 1995    | 1990  | 1980  |
|                  |        |       |       | 1995           | 1990    |         |       |       |
| Total            | 12,057 | 8,210 | 3,373 | 46.9           | 143.4   | 100.0   | 100.0 | 100.0 |
| 1 room           | 1,351  | 677   | 156   | 99.6           | 334.0   | 11.2    | 8.2   | 4.6   |
| 2 room s         | 1,623  | 1,007 | 316   | 61.2           | 218.7   | 13.5    | 12.3  | 9.4   |
| 3 room s         | 1,991  | 1,524 | 639   | 30.6           | 138.5   | 16.5    | 18.6  | 18.9  |
| 4 room s         | 2,733  | 1,975 | 886   | 38.4           | 122.9   | 22.7    | 24.1  | 26.3  |
| 5 room s         | 2,122  | 1,714 | 852   | 23.8           | 101.2   | 17.6    | 20.9  | 25.3  |
| 6 room s         | 1,097  | 790   | 359   | 38.9           | 120.1   | 9.1     | 9.6   | 10.6  |
| 7 room s         | 552    | 265   | 98    | 108.3          | 170.4   | 4.6     | 3.2   | 2.9   |
| 8 or more room s | 588    | 258   | 67    | 127.9          | 285.1   | 4.9     | 3.1   | 2.0   |
| Median           | 4.4    | 4.0   | 4.1   | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM II-Decade Census Table 14

### Persons in Units

The median number of persons per unit, however, declined from 5.4 in 1980 to 4.0 in 1990.

**Table 9.41 Persons in Units, CNMI 1980, 1990, and 1995**

| Persons           | Number |       |       | Percent Change |         | Percent |       |       |
|-------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                   | 1995   | 1990  | 1980  | 1990 to        | 1980 to | 1995    | 1990  | 1980  |
|                   |        |       |       | 1995           | 1990    |         |       |       |
| Total             | 12,057 | 6,873 | 3,028 | 75.4           | 127.0   | 100.0   | 100.0 | 100.0 |
| 1 person          | 1,966  | 787   | 252   | 149.8          | 212.3   | 16.3    | 11.5  | 8.3   |
| 2 persons         | 2,335  | 1,021 | 359   | 128.7          | 184.4   | 19.4    | 14.9  | 11.9  |
| 3 persons         | 1,802  | 914   | 365   | 97.2           | 150.4   | 14.9    | 13.3  | 12.1  |
| 4 persons         | 1,732  | 1,052 | 389   | 64.6           | 170.4   | 14.4    | 15.3  | 12.8  |
| 5 persons         | 1,428  | 828   | 382   | 72.5           | 116.8   | 11.8    | 12.0  | 12.6  |
| 6 persons         | 1,006  | 761   | 318   | 32.2           | 139.3   | 8.3     | 11.1  | 10.5  |
| 7 persons         | 681    | 508   | 341   | 34.1           | 49.0    | 5.6     | 7.4   | 11.3  |
| 8 or more persons | 1,107  | 1,002 | 622   | 10.5           | 61.1    | 9.2     | 14.6  | 20.5  |
| Median            | 4.0    | 4.2   | 5.4   | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM II-Decade Census Table 145

**Table 9.42 Persons in Units, Saipan: 1980, 1990, and 1995**

| Persons           | Number |       |       | Percent Change |         | Percent |       |       |
|-------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                   |        |       |       | 1990 to        | 1980 to |         |       |       |
|                   | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total             | 10,844 | 6,085 | 1,534 | 78.2           | 296.7   | 100.0   | 100.0 | 100.0 |
| 1 person          | 1,818  | 701   | 64    | 159.3          | 995.3   | 16.8    | 11.5  | 4.2   |
| 2 persons         | 2,155  | 922   | 110   | 133.7          | 738.2   | 19.9    | 15.2  | 7.2   |
| 3 persons         | 1,645  | 829   | 151   | 98.4           | 449.0   | 15.2    | 13.6  | 9.8   |
| 4 persons         | 1,571  | 933   | 190   | 68.4           | 391.1   | 14.5    | 15.3  | 12.4  |
| 5 persons         | 1,270  | 734   | 204   | 73.0           | 259.8   | 11.7    | 12.1  | 13.3  |
| 6 persons         | 877    | 675   | 188   | 29.9           | 259.0   | 8.1     | 11.1  | 12.3  |
| 7 persons         | 580    | 439   | 211   | 32.1           | 108.1   | 5.3     | 7.2   | 13.8  |
| 8 or more persons | 928    | 852   | 416   | 8.9            | 104.8   | 8.6     | 14.0  | 27.1  |
| Median            | 3.9    | 4.1   | 5.8   | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 10-Year Decade Census Table 145

**Persons Per Unit By Island**

The median number of persons per occupied unit decreased substantially on all three major CNMI islands. The median number declined from 5.8 persons to 3.9 persons per unit in Saipan over time and changed from 6.1 persons to 4.6 persons per unit in Rota. The median number of persons per unit changed least in Tinian, though the decrease is still noteworthy. The median changed from 5.4 persons per unit to 4.5 persons over time on Tinian.

**Table 9.43 Persons in Units, Tinian: 1980, 1990, and 1995**

| Persons           | Number |      |      | Percent Change |         | Percent |       |       |
|-------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                   |        |      |      | 1990 to        | 1980 to |         |       |       |
|                   | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total             | 544    | 366  | 94   | 48.6           | 289.4   | 100.0   | 100.0 | 100.0 |
| 1 person          | 77     | 37   | 4    | 108.1          | 825.0   | 14.2    | 10.1  | 4.3   |
| 2 persons         | 88     | 47   | 16   | 87.2           | 193.8   | 16.2    | 12.8  | 17.0  |
| 3 persons         | 72     | 37   | 8    | 94.6           | 362.5   | 13.2    | 10.1  | 8.5   |
| 4 persons         | 74     | 57   | 12   | 29.8           | 375.0   | 13.6    | 15.6  | 12.8  |
| 5 persons         | 84     | 40   | 8    | 110.0          | 400.0   | 15.4    | 10.9  | 8.5   |
| 6 persons         | 48     | 38   | 11   | 26.3           | 245.5   | 8.8     | 10.4  | 11.7  |
| 7 persons         | 37     | 33   | 10   | 12.1           | 230.0   | 6.8     | 9.0   | 10.6  |
| 8 or more persons | 64     | 77   | 25   | -16.9          | 208.0   | 11.8    | 21.0  | 26.6  |
| Median            | 4.5    | 4.6  | 5.4  | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 10-Year Decade Census Table 145

**Table 9.44 Persons in Units, Rota: 1980, 1990, and 1995**

| Persons           | Number |      |      | Percent Change |         | Percent |       |       |
|-------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                   |        |      |      | 1990 to        | 1980 to |         |       |       |
|                   | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total             | 690    | 416  | 170  | 65.9           | 144.7   | 100.0   | 100.0 | 100.0 |
| 1 person          | 98     | 49   | 11   | 100.0          | 345.5   | 14.2    | 11.8  | 6.5   |
| 2 persons         | 108    | 52   | 16   | 107.7          | 225.0   | 15.7    | 12.5  | 9.4   |
| 3 persons         | 86     | 47   | 15   | 83.0           | 213.3   | 12.5    | 11.3  | 8.8   |
| 4 persons         | 89     | 62   | 9    | 43.5           | 588.9   | 12.9    | 14.9  | 5.3   |
| 5 persons         | 104    | 52   | 20   | 100.0          | 160.0   | 15.1    | 12.5  | 11.8  |
| 6 persons         | 63     | 47   | 24   | 34.0           | 95.8    | 9.1     | 11.3  | 14.1  |
| 7 persons         | 49     | 36   | 27   | 36.1           | 33.3    | 7.1     | 8.7   | 15.9  |
| 8 or more persons | 93     | 71   | 48   | 31.0           | 47.9    | 13.5    | 17.1  | 28.2  |
| Median            | 4.6    | 4.5  | 6.1  | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 10-Year Decade Census Table 145

**Table 9.45 Persons per Room : 1980, 1990, and 1995**

| Persons Per Room | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 12,057 | 6,873 | 3,028 | 75.4           | 127.0   | 100.0   | 100.0 | 100.0 |
| 0.50 or less     | 1,437  | 1,191 | 464   | 20.7           | 156.7   | 11.9    | 17.3  | 15.3  |
| 0.51 to 0.75     | 2,379  | 830   | 351   | 186.6          | 136.5   | 19.7    | 12.1  | 11.6  |
| 0.76 to 1.00     | 1,221  | 1,704 | 581   | -28.3          | 193.3   | 10.1    | 24.8  | 19.2  |
| 1.01 to 1.50     | 4,183  | 1,489 | 629   | 180.9          | 136.7   | 34.7    | 21.7  | 20.8  |
| 1.51 or more     | 2,837  | 1,659 | 1,003 | 71.0           | 65.4    | 23.5    | 24.1  | 33.1  |
| Median           | 0.98   | 1.13  | 1.10  | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 10-Decade Census Table 149

**Table 9.46 Persons per Room , Saipan: 1980, 1990, and 1995**

| Persons Per Room | Number |       |       | Percent Change |         | Percent |       |       |
|------------------|--------|-------|-------|----------------|---------|---------|-------|-------|
|                  |        |       |       | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990  | 1980  | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 10,844 | 6,085 | 1,534 | 78.2           | 296.7   | 100.0   | 100.0 | 100.0 |
| 0.50 or less     | 1,315  | 1,061 | 155   | 23.9           | 584.5   | 12.1    | 17.4  | 10.1  |
| 0.51 to 0.75     | 2,160  | 757   | 135   | 185.3          | 460.7   | 19.9    | 12.4  | 8.8   |
| 0.76 to 1.00     | 1,097  | 1,518 | 255   | -27.7          | 495.3   | 10.1    | 24.9  | 16.6  |
| 1.01 to 1.50     | 3,716  | 1,291 | 368   | 187.8          | 250.8   | 34.3    | 21.2  | 24.0  |
| 1.51 or more     | 2,556  | 1,458 | 621   | 75.3           | 134.8   | 23.6    | 24.0  | 40.5  |
| Median           | 0.98   | 1.12  | ...   | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 10-Decade Census Table 149

**Table 9.47 Persons per Room , Tinian: 1980, 1990, and 1995**

| Persons Per Room | Number |      |      | Percent Change |         | Percent |       |       |
|------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                  |        |      |      | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 522    | 366  | 94   | 42.6           | 289.4   | 100.0   | 100.0 | 100.0 |
| 0.50 or less     | 42     | 60   | 17   | -30.0          | 252.9   | 8.0     | 16.4  | 18.1  |
| 0.51 to 0.75     | 90     | 32   | 11   | 181.3          | 190.9   | 17.2    | 8.7   | 11.7  |
| 0.76 to 1.00     | 59     | 83   | 17   | -28.9          | 388.2   | 11.3    | 22.7  | 18.1  |
| 1.01 to 1.50     | 213    | 98   | 21   | 117.3          | 366.7   | 40.8    | 26.8  | 22.3  |
| 1.51 or more     | 118    | 93   | 28   | 26.9           | 232.1   | 22.6    | 25.4  | 29.8  |
| Median           | 1.06   | 1.19 | ...  | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 10-Decade Census Table 149

**Table 9.48 Persons per Room, Rota: 1980, 1990, and 1995**

| Persons Per Room | Number |      |      | Percent Change |         | Percent |       |       |
|------------------|--------|------|------|----------------|---------|---------|-------|-------|
|                  |        |      |      | 1990 to        | 1980 to |         |       |       |
|                  | 1995   | 1990 | 1980 | 1995           | 1990    | 1995    | 1990  | 1980  |
| Total            | 690    | 416  | 170  | 65.9           | 144.7   | 100.0   | 100.0 | 100.0 |
| 0.50 or less     | 80     | 70   | 25   | 14.3           | 180.0   | 11.6    | 16.8  | 14.7  |
| 0.51 to 0.75     | 129    | 41   | 14   | 214.6          | 192.9   | 18.7    | 9.9   | 8.2   |
| 0.76 to 1.00     | 65     | 102  | 20   | -36.3          | 410.0   | 9.4     | 24.5  | 11.8  |
| 1.01 to 1.50     | 254    | 100  | 38   | 154.0          | 163.2   | 36.8    | 24.0  | 22.4  |
| 1.51 or more     | 162    | 103  | 73   | 57.3           | 41.1    | 23.5    | 24.8  | 42.9  |
| Median           | 1.01   | 1.14 | ...  | ...            | ...     | ...     | ...   | ...   |

Source: 1980 Census Table 9, and 1990 Census Table 102, and 1995 CNM IM 11-Decade Census Table 149

**Table 9.49 Tenure and Persons per Occupied Housing Unit by Island: 1995**

| Occupied Housing Units                | Total  | Island |       |        |         |
|---------------------------------------|--------|--------|-------|--------|---------|
|                                       |        | Saipan | Rota  | Tinian | N. Isl. |
| Occupied housing units                | 12,057 | 10,844 | 690   | 522    | 1       |
| Owner-occupied                        | 4,037  | 3,486  | 354   | 196    | 1       |
| Percent                               | 33.5   | 32.1   | 51.3  | 37.5   | 100.0   |
| Renter-occupied                       | 5,219  | 4,927  | 146   | 146    | 0       |
| Occupied without payment of cash rent | 2,801  | 2,431  | 190   | 180    | 0       |
| Total persons                         | 58,846 | 52,698 | 3,509 | 2,631  | 8       |
| Persons in occupied units             | 47,630 | 42,034 | 3,075 | 2,513  | 8       |
| Owner-occupied                        | 21,279 | 18,278 | 1,847 | 1,146  | 8       |
| Renter-occupied                       | 16,648 | 15,560 | 529   | 559    | 0       |
| Persons per occupied units            | 4.0    | 3.9    | 4.5   | 4.8    | 8.0     |
| Owner-occupied                        | 5.3    | 5.2    | 5.2   | 5.8    | 8.0     |
| Renter-occupied                       | 3.2    | 3.2    | 3.6   | 3.8    | ...     |

Source: 1995 CNM IM 11-Decade Census Table 6 and Table 146

**Tenure and Persons per Occupied Housing Units**

Approximately 33% of CNMI's housing units were owner-occupied, 43% were renter-occupied units, and 24% were occupied where the owner did not collect a rent payment.

Over 45% of Saipan's units were renter-occupied in 1995 compared to 28% on Tinian and 21% in Rota.

Over 80% (47,630 persons) of the CNMI's total population in 1995 lived in housing units and 36% of those in owner-occupied units and 28% lived in renter-occupied units.

Individuals on Rota and Tinian were somewhat more likely than in Saipan to live in an owner-occupied unit.

**Table 9.50 Tenure and Persons per Occupied Housing Unit by Island: 1990**

| Occupied Housing Units     | Total  | Island |       |        |         |
|----------------------------|--------|--------|-------|--------|---------|
|                            |        | Saipan | Rota  | Tinian | N. Isl. |
| Occupied housing units     | 6,873  | 6,085  | 416   | 366    | 6       |
| Owner-occupied             | 2,981  | 2,535  | 246   | 194    | 6       |
| Percent                    | 43.4   | 41.7   | 59.1  | 53.0   | 100.0   |
| Renter-occupied            | 3,892  | 3,550  | 170   | 172    | 0       |
| Total persons              | 43,345 | 38,896 | 2,295 | 2,118  | 36      |
| Persons in occupied units  | 31,856 | 27,940 | 2,006 | 1,874  | 36      |
| Owner-occupied             | 17,267 | 14,723 | 1,330 | 1,178  | 36      |
| Renter-occupied            | 14,589 | 13,217 | 676   | 696    | 0       |
| Persons per occupied units | 4.6    | 4.6    | 4.8   | 5.1    | 6.0     |
| Owner-occupied             | 5.8    | 5.8    | 5.4   | 6.1    | 6.0     |
| Renter-occupied            | 3.7    | 3.7    | 4.0   | 4.0    | ...     |

Source: 1990 CPH-6-CNMI, Table 100

### Value of Owner-occupied Housing Units

In 1995, nearly one-quarter (24.4%) of all CNMI homes were valued at \$500,000 or more. In fact, 76% of all homes were valued at \$100,000 or more, which indicates the remarking high median house value in the region.

**Table 9.51 Value of Owner-occupied Housing Units by Island: 1995**

| Value                  | Numbers |        |      |       |        | Percent |        |       |       |        |
|------------------------|---------|--------|------|-------|--------|---------|--------|-------|-------|--------|
|                        | Total   | Saipan | Rota | Thian | N. Is. | Total   | Saipan | Rota  | Thian | N. Is. |
| Total                  | 4,037   | 3,486  | 354  | 196   | 1      | 100.0   | 100.0  | 100.0 | 100.0 | 100.0  |
| Less than \$10,000     | 85      | 79     | 3    | 3     | 0      | 2.1     | 2.3    | 0.8   | 1.5   | 0.0    |
| \$10,000 to \$14,999   | 30      | 27     | 1    | 2     | 0      | 0.7     | 0.8    | 0.3   | 1.0   | 0.0    |
| \$15,000 to \$19,999   | 25      | 22     | 1    | 2     | 0      | 0.6     | 0.6    | 0.3   | 1.0   | 0.0    |
| \$20,000 to \$29,999   | 89      | 77     | 9    | 3     | 0      | 2.2     | 2.2    | 2.5   | 1.5   | 0.0    |
| \$30,000 to \$39,999   | 114     | 96     | 15   | 2     | 1      | 2.8     | 2.8    | 4.2   | 1.0   | 100.0  |
| \$40,000 to \$49,999   | 86      | 63     | 17   | 6     | 0      | 2.1     | 1.8    | 4.8   | 3.1   | 0.0    |
| \$50,000 to \$59,999   | 154     | 124    | 22   | 8     | 0      | 3.8     | 3.6    | 6.2   | 4.1   | 0.0    |
| \$60,000 to \$69,999   | 76      | 53     | 15   | 8     | 0      | 1.9     | 1.5    | 4.2   | 4.1   | 0.0    |
| \$70,000 to \$79,999   | 136     | 119    | 10   | 7     | 0      | 3.4     | 3.4    | 2.8   | 3.6   | 0.0    |
| \$80,000 to \$89,999   | 133     | 114    | 16   | 3     | 0      | 3.3     | 3.3    | 4.5   | 1.5   | 0.0    |
| \$90,000 to \$99,999   | 30      | 26     | 3    | 1     | 0      | 0.7     | 0.7    | 0.8   | 0.5   | 0.0    |
| \$100,000 to \$149,999 | 572     | 484    | 53   | 35    | 0      | 14.2    | 13.9   | 15.0  | 17.9  | 0.0    |
| \$150,000 to \$199,999 | 468     | 390    | 49   | 29    | 0      | 11.6    | 11.2   | 13.8  | 14.8  | 0.0    |
| \$200,000 to \$299,999 | 638     | 542    | 62   | 34    | 0      | 15.8    | 15.5   | 17.5  | 17.3  | 0.0    |
| \$300,000 to \$399,999 | 326     | 275    | 40   | 11    | 0      | 8.1     | 7.9    | 11.3  | 5.6   | 0.0    |
| \$400,000 to \$499,999 | 91      | 82     | 6    | 3     | 0      | 2.3     | 2.4    | 1.7   | 1.5   | 0.0    |
| \$500,000 or more      | 984     | 913    | 32   | 39    | 0      | 24.4    | 26.2   | 9.0   | 19.9  | 0.0    |

Source: 1995 CNMI 10-Year Decade Census Table 153

**Table 9.52 Value of Owner-occupied Housing Units by Island: 1990**

| Value                  | Numbers |        |      |       |        | Percent |        |       |       |        |
|------------------------|---------|--------|------|-------|--------|---------|--------|-------|-------|--------|
|                        | Total   | Saipan | Rota | Thian | N. Is. | Total   | Saipan | Rota  | Thian | N. Is. |
| Total                  | 2,714   | 2,319  | 224  | 165   | 6      | 100.0   | 100.0  | 100.0 | 100.0 | 100.0  |
| Less than \$10,000     | 73      | 69     | 3    | 1     | 0      | 2.7     | 3.0    | 1.3   | 0.6   | 0.0    |
| \$10,000 to \$14,999   | 43      | 41     | 1    | 1     | 0      | 1.6     | 1.8    | 0.4   | 0.6   | 0.0    |
| \$15,000 to \$19,999   | 36      | 34     | 2    | 0     | 0      | 1.3     | 1.5    | 0.9   | 0.0   | 0.0    |
| \$20,000 to \$29,999   | 108     | 98     | 6    | 4     | 0      | 4.0     | 4.2    | 2.7   | 2.4   | 0.0    |
| \$30,000 to \$39,999   | 78      | 63     | 12   | 3     | 0      | 2.9     | 2.7    | 5.4   | 1.8   | 0.0    |
| \$40,000 to \$49,999   | 46      | 35     | 9    | 2     | 0      | 1.7     | 1.5    | 4.0   | 1.2   | 0.0    |
| \$50,000 to \$59,999   | 162     | 141    | 20   | 1     | 0      | 6.0     | 6.1    | 8.9   | 0.6   | 0.0    |
| \$60,000 to \$69,999   | 54      | 46     | 7    | 1     | 0      | 2.0     | 2.0    | 3.1   | 0.6   | 0.0    |
| \$70,000 to \$79,999   | 100     | 90     | 10   | 0     | 0      | 3.7     | 3.9    | 4.5   | 0.0   | 0.0    |
| \$80,000 to \$89,999   | 66      | 53     | 12   | 1     | 0      | 2.4     | 2.3    | 5.4   | 0.6   | 0.0    |
| \$90,000 to \$99,999   | 26      | 23     | 3    | 0     | 0      | 1.0     | 1.0    | 1.3   | 0.0   | 0.0    |
| \$100,000 to \$149,999 | 467     | 395    | 50   | 20    | 2      | 17.2    | 17.0   | 22.3  | 12.1  | 33.3   |
| \$150,000 to \$199,999 | 258     | 215    | 29   | 13    | 1      | 9.5     | 9.3    | 12.9  | 7.9   | 16.7   |
| \$200,000 to \$299,999 | 400     | 337    | 27   | 36    | 0      | 14.7    | 14.5   | 12.1  | 21.8  | 0.0    |
| \$300,000 to \$399,999 | 248     | 202    | 13   | 33    | 0      | 9.1     | 8.7    | 5.8   | 20.0  | 0.0    |
| \$400,000 to \$499,999 | 59      | 48     | 0    | 11    | 0      | 2.2     | 2.1    | 0.0   | 6.7   | 0.0    |
| \$500,000 or more      | 490     | 429    | 20   | 38    | 3      | 18.1    | 18.5   | 8.9   | 23.0  | 50.0   |

Source: 1990 CPH-6-CNMI, Table 106

**Table 9.53 Contact Rent by Island: 1995**

| Contact Rent     | Numbers |        |      |        | Percent |        |       |        |
|------------------|---------|--------|------|--------|---------|--------|-------|--------|
|                  | Total   | Saipan | Rota | Tinian | Total   | Saipan | Rota  | Tinian |
| Total            | 8,020   | 7,358  | 336  | 326    | 100.0   | 100.0  | 100.0 | 100.0  |
| Less than \$100  | 488     | 456    | 18   | 14     | 6.1     | 6.2    | 5.4   | 4.3    |
| \$100 to \$149   | 466     | 448    | 6    | 12     | 5.8     | 6.1    | 1.8   | 3.7    |
| \$150 to \$199   | 311     | 292    | 8    | 11     | 3.9     | 4.0    | 2.4   | 3.4    |
| \$200 to \$249   | 304     | 282    | 9    | 13     | 3.8     | 3.8    | 2.7   | 4.0    |
| \$250 to \$299   | 259     | 246    | 5    | 8      | 3.2     | 3.3    | 1.5   | 2.5    |
| \$300 to \$349   | 323     | 301    | 8    | 14     | 4.0     | 4.1    | 2.4   | 4.3    |
| \$350 to \$399   | 268     | 251    | 8    | 9      | 3.3     | 3.4    | 2.4   | 2.8    |
| \$400 to \$449   | 334     | 304    | 10   | 20     | 4.2     | 4.1    | 3.0   | 6.1    |
| \$450 to \$499   | 173     | 161    | 8    | 4      | 2.2     | 2.2    | 2.4   | 1.2    |
| \$500 to \$599   | 528     | 492    | 20   | 16     | 6.6     | 6.7    | 6.0   | 4.9    |
| \$600 to \$699   | 533     | 499    | 26   | 8      | 6.6     | 6.8    | 7.7   | 2.5    |
| \$700 to \$799   | 404     | 388    | 7    | 9      | 5.0     | 5.3    | 2.1   | 2.8    |
| \$800 to \$899   | 270     | 258    | 7    | 5      | 3.4     | 3.5    | 2.1   | 1.5    |
| \$900 to \$999   | 124     | 124    | 0    | 0      | 1.5     | 1.7    | 0.0   | 0.0    |
| \$1000 to \$1999 | 362     | 357    | 3    | 2      | 4.5     | 4.9    | 0.9   | 0.6    |
| \$2000 or more   | 72      | 68     | 3    | 1      | 0.9     | 0.9    | 0.9   | 0.3    |
| No cash rent     | 2,801   | 2,431  | 190  | 180    | 34.9    | 33.0   | 56.5  | 55.2   |
| Median (dollars) | 429     | 431    | 456  | 356    | ...     | ...    | ...   | ...    |
| Mean (dollars)   | 317     | 329    | 197  | 164    | ...     | ...    | ...   | ...    |

Source: 1995 Mid-Decade Census Table 155

**Contract Rent**

The cost of rent averaged \$317 per month in the CNMI in 1995, compared to \$558 five years earlier.

**Table 9.54 Contact Rent by Island: 1990**

| Contact Rent     | Numbers |        |      |        | Percent |        |       |        |
|------------------|---------|--------|------|--------|---------|--------|-------|--------|
|                  | Total   | Saipan | Rota | Tinian | Total   | Saipan | Rota  | Tinian |
| Total            | 3,892   | 3,550  | 170  | 172    | 100.0   | 100.0  | 100.0 | 100.0  |
| Less than \$100  | 147     | 125    | 13   | 9      | 3.8     | 3.5    | 7.6   | 5.2    |
| \$100 to \$149   | 147     | 131    | 3    | 13     | 3.8     | 3.7    | 1.8   | 7.6    |
| \$150 to \$199   | 146     | 129    | 4    | 13     | 3.8     | 3.6    | 2.4   | 7.6    |
| \$200 to \$249   | 130     | 128    | 1    | 1      | 3.3     | 3.6    | 0.6   | 0.6    |
| \$250 to \$299   | 125     | 120    | 2    | 3      | 3.2     | 3.4    | 1.2   | 1.7    |
| \$300 to \$349   | 112     | 104    | 3    | 5      | 2.9     | 2.9    | 1.8   | 2.9    |
| \$350 to \$399   | 125     | 115    | 3    | 7      | 3.2     | 3.2    | 1.8   | 4.1    |
| \$400 to \$449   | 104     | 103    | 1    |        | 2.7     | 2.9    | 0.6   | 0.0    |
| \$450 to \$499   | 112     | 107    | 2    | 3      | 2.9     | 3.0    | 1.2   | 1.7    |
| \$500 to \$599   | 189     | 178    | 2    | 9      | 4.9     | 5.0    | 1.2   | 5.2    |
| \$600 to \$699   | 187     | 170    | 9    | 8      | 4.8     | 4.8    | 5.3   | 4.7    |
| \$700 to \$799   | 170     | 165    | 3    | 2      | 4.4     | 4.6    | 1.8   | 1.2    |
| \$800 to \$899   | 105     | 101    | 2    | 2      | 2.7     | 2.8    | 1.2   | 1.2    |
| \$900 to \$999   | 113     | 110    | 2    | 1      | 2.9     | 3.1    | 1.2   | 0.6    |
| \$1000 to \$1999 | 222     | 218    | 4    | 0      | 5.7     | 6.1    | 2.4   | 0.0    |
| \$2000 or more   | 27      | 26     | 0    | 1      | 0.7     | 0.7    | 0.0   | 0.6    |
| No cash rent     | 1,731   | 1,520  | 116  | 95     | 44.5    | 42.8   | 68.2  | 55.2   |
| Median (dollars) | 470     | 478    | 367  | 292    | ...     | ...    | ...   | ...    |
| Mean (dollars)   | 558     | 566    | 441  | 417    | ...     | ...    | ...   | ...    |

Source: 1990 CPH-6-CNMI, Table 109

Chapter 10  
TRANSPORTATION AND  
COMMUNICATION

## Summary of Transportation and Communication

This chapter reviews data on vehicle registrations, the number of taxi cabs, and the number of telephones installed in the CNMI for 2000 as well as historical trends.

Data from the CNMI Bureau of Motor Vehicles show substantial fluctuation in the number of registered vehicles in the CNMI over time. In 2000, a total of 19,350 vehicles were registered on Saipan, Tinian and Rota. Dramatic fluctuations in vehicle registration numbers may be due to inaccurate record keeping and high turnover among visitors and immigrants who may use vehicles for relatively short time periods.

Census data from 1995 also show an average of 1.3 vehicles per household in the CNMI, the same average in 1990. A sizable proportion of households owned 2 vehicles (23%) and approximately 9% of households owned 3 or more vehicles in 1995. The absence of a public transit system increased the importance of owning a vehicle in the CNMI.

The number of registered taxicabs in the CNMI appears to have risen and fallen with the economy. Taxi registrations peaked in 1996 and declined sharply thereafter.

Lastly, the number of residential and business telephones installed in the CNMI has increased steadily over the past two decades. Residential telephones accounted for 64% of all telephones installed and the overall number of telephones decreased substantially between 1999 and 2000.



**Table 10.1 Number of Registered Vehicles, Saipan: 1990 to 2000**

| Year | Total  | New registration | Renewal | Heavy equipment |
|------|--------|------------------|---------|-----------------|
| 2000 | 17,616 | 839              | 16,777  | 1,118           |
| 1999 | 18,674 | 1,090            | 16,627  | 957             |
| 1998 | 20,729 | 1,798            | 17,820  | 1,111           |
| 1997 | 15,221 | 1,736            | 13,266  | 219             |
| 1996 | 18,644 | 2,061            | 15,424  | 1,159           |
| 1995 | 13,214 | 1,348            | 11,489  | 377             |
| 1994 | 16,167 | 1,659            | 14,132  | 376             |
| 1993 | 17,249 | 1,676            | 14,526  | 1,047           |
| 1992 | 17,372 | 2,180            | 14,386  | 806             |
| 1991 | 15,708 | 3,300            | 11,714  | 694             |
| 1990 | 13,746 | 3,572            | 9,657   | 517             |

Source: Bureau of Motor Vehicles, Saipan

**Table 10.2 Type and Number of Registered Vehicles, Tinian: 1993 to 2000**

| Type of Vehicle                     | Year |      |      |      |      |      |      |      |
|-------------------------------------|------|------|------|------|------|------|------|------|
|                                     | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 | 1993 |
| All vehicles                        | 731  | 735  | 435  | 747  | 827  | 633  | 751  | 853  |
| Sedan, jeep, wagon, pickup, and van | 717  | 663  | 398  | 682  | 727  | 559  | 627  | 654  |
| Heavy equipment                     | 5    | 57   | 21   | 28   | 35   | 21   | 58   | 44   |
| Moped and motorcycle                | 3    | 6    | 15   | 31   | 65   | 42   | 64   | 146  |
| Bus                                 | 6    | 9    | 1    | 6    | 0    | 11   | 2    | 9    |

Source: Office of the Resident Director, Tinian

Note: 1998 data from Jan-May only.

**Table 10.3 Type and Number of Vehicles, Rota: 1994 to 2000**

| Type of Vehicle      | Year |      |      |      |       |       |       |
|----------------------|------|------|------|------|-------|-------|-------|
|                      | 2000 | 1999 | 1998 | 1997 | 1996  | 1995  | 1994  |
| All vehicles         | 890  | 914  | 519  | 442  | 1,228 | 1,069 | 1,051 |
| Sedan and wagon      | 415  | 396  | 349  | 219  | 526   | 472   | 411   |
| Pickup including 4x4 | 374  | 418  | 97   | 195  | 527   | 428   | 479   |
| Moped, scooter       | 0    | 7    | 0    | 1    | 12    | 6     | 3     |
| Buses                | 13   | 9    | 0    | 1    | 11    | 8     | 3     |
| Heavy equipment      | 17   | 7    | 17   | 2    | 32    | 41    | 52    |
| Passenger van        | 15   | 28   | 16   | 7    | 38    | 26    | 21    |
| Flatbed truck        | 0    | 4    | 4    |      | 14    | 13    | 14    |
| Jeep                 | 11   | 42   | 36   | 15   | 65    | 65    | 66    |
| Motorcycle           | 0    | 3    | 0    | 2    | 3     | 4     | 1     |
| Others               | 45   | 0    | 0    |      | 0     | 6     | 1     |

Source: Bureau of Motor Vehicles, Rota

**Total Number of Registered Vehicles**

The total number of registered vehicles in Saipan declined from 1992 to 1995, increased substantially in 1996, and subsequently continued to fluctuate thereafter. The number of registrations has decreased from 1997 to 2000 according to data provided by the Bureau of Motor Vehicles.

The number of registered vehicles in Tinian and Rota fluctuated over time as well. There were 731 total vehicles registered in Tinian in 2000. Data for 1999 show a total of 914 vehicles registered in Rota, the most recent year for which data were available.

Dramatic fluctuations in the number of vehicles registered annually in the CNMI are possibly due to inaccurate record keeping and higher turnover among visitors, and migrants who stay in the region only for a brief period of time.

**Table 10.4 Motor Vehicle Registration Renewals, Saipan: 1986 to 2000**

| Year | Total  | Sedans,<br>Jeeps,<br>Station<br>wagons | Vans<br>and Minivans | Comm-<br>ercial<br>buses | Trucks |                                   |                         |                  | Mopeds and motorcycles |                 |                |
|------|--------|--|----------------------|--------------------------|--------|-----------------------------------|-------------------------|------------------|------------------------|-----------------|----------------|
|      |        |  |                      |                          | Total  | Light<br>pickups<br>and<br>trucks | Heavy<br>equip-<br>ment | Comb-<br>ination | Total                  | Up to<br>100 cc | Over<br>100 cc |
| 2000 | 15,778 | 10,052                                 | 314                  | 355                      | 5,002  | 4,512                             | 490                     | 0                | 55                     | ...             | ...            |
| 1999 | 16,629 | 10,987                                 | 775                  | 242                      | 4,567  | 4,061                             | 506                     | 0                | 58                     | ...             | ...            |
| 1998 | 17,820 | 11,381                                 | 674                  | 270                      | 5,402  | 4,876                             | 526                     | 0                | 93                     | ...             | ...            |
| 1997 | 13,464 | 8,848                                  | 385                  | 99                       | 4,103  | 4,004                             | 66                      | 33               | 29                     | 18              | 11             |
| 1996 | 15,424 | 9,538                                  | 567                  | 334                      | 4,920  | 4,125                             | 795                     | 0                | 65                     | 23              | 42             |
| 1995 | 11,489 | 7,246                                  | 397                  | 123                      | 3,700  | 3,126                             | 574                     | 0                | 23                     | 5               | 18             |
| 1994 | 14,132 | 8,623                                  | 584                  | 165                      | 4,706  | 3,995                             | 711                     | 0                | 54                     | 25              | 29             |
| 1993 | 13,831 | 8,703                                  | 538                  | 121                      | 4,408  | 3,739                             | 653                     | 16               | 61                     | 15              | 46             |
| 1992 | 14,402 | 8,887                                  | 517                  | 115                      | 4,818  | 4,108                             | 696                     | 14               | 65                     | 12              | 53             |
| 1991 | 11,712 | 7,005                                  | 438                  | 115                      | 4,082  | 3,499                             | 568                     | 15               | 72                     | 11              | 61             |
| 1990 | 9,665  | 5,978                                  | 349                  | 79                       | 3,175  | 2,762                             | 400                     | 13               | 84                     | 52              | 32             |
| 1989 | 8,355  | 5,114                                  | 315                  | 48                       | 2,799  | 2,420                             | 378                     | 1                | 79                     | 41              | 38             |
| 1988 | 5,392  | 3,332                                  | 167                  | 46                       | 1,785  | 1,605                             | 180                     | 0                | 62                     | 53              | 9              |
| 1987 | 6,810  | 4,730                                  | 145                  | 65                       | 1,748  | 1,671                             | 71                      | 6                | 122                    | 77              | 45             |
| 1986 | 6,239  | 4,062                                  | 106                  | 56                       | 1,944  | 1,784                             | 149                     | 11               | 71                     | 30              | 41             |

Source: Bureau of Motor Vehicles

Note: "..." means not available.

**Table 10.5 CNMI Total Registered Motor Vehicles: 1989 to 2000**

| Year | Total  | New   | Island<br>Dealer | Import | Renewal | Trans |
|------|--------|-------|------------------|--------|---------|-------|
| 2000 | 17,616 | 839   | 851              | 279    | 16,777  | 4,920 |
| 1999 | 17,717 | 1,090 | 876              | 214    | 16,627  | 5,234 |
| 1998 | 19,626 | 1,806 | 8                | 1,798  | 17,820  | 5,554 |
| 1997 | 16,096 | 2,632 | 1,757            | 875    | 13,464  | 3,678 |
| 1996 | 17,485 | 2,061 | 1,415            | 646    | 15,424  | 3,178 |
| 1995 | 15,398 | 1,879 | 1,314            | 565    | 13,519  | ...   |
| 1994 | 17,327 | 1,772 | 1,288            | 484    | 15,555  | 3,792 |
| 1993 | 16,043 | 1,662 | 1,290            | 372    | 14,381  | 3,354 |
| 1992 | 16,566 | 2,180 | 1,707            | 473    | 14,386  | 1,744 |
| 1991 | 15,014 | 3,300 | 2,798            | 502    | 11,714  | 1,823 |
| 1990 | 13,239 | 3,572 | 2,918            | 654    | 9,667   | 1,549 |
| 1989 | 11,357 | 2,899 | 2,344            | 555    | 8,458   | 829   |

Source: Division of Highway Safety, Department of Public Safety

**Table 10.6 Number of Vehicles Per Household by Island: 1995**

| Number of Vehicles     | Island               |        |      |        |         |        |       |        |
|------------------------|----------------------|--------|------|--------|---------|--------|-------|--------|
|                        | Number of Households |        |      |        | Percent |        |       |        |
|                        | Total                | Saipan | Rota | Tinian | Total   | Saipan | Rota  | Tinian |
| Total                  | 12,056               | 10,844 | 690  | 522    | 100.0   | 100.0  | 100.0 | 100.0  |
| None                   | 1,263                | 1,136  | 92   | 35     | 10.5    | 10.5   | 13.3  | 6.7    |
| 1                      | 6,985                | 6,296  | 360  | 329    | 57.9    | 58.1   | 52.2  | 63.0   |
| 2                      | 2,776                | 2,486  | 170  | 120    | 23.0    | 22.9   | 24.6  | 23.0   |
| 3 or more              | 1,032                | 926    | 68   | 38     | 8.6     | 8.5    | 9.9   | 7.3    |
| Vehicles per household | 1.3                  | 1.3    | 1.4  | 1.4    | ...     | ...    | ...   | ...    |

Source: 1995 CNMIM Decade Census Table 152

**Table 10.7 Number of Vehicles Per Household by Island: 1990**

| Number of Vehicles     | Island               |        |      |        |        |       |        |  |
|------------------------|----------------------|--------|------|--------|--------|-------|--------|--|
|                        | Number of Households |        |      |        |        |       |        |  |
|                        | Total                | Saipan | Rota | Tinian | Saipan | Rota  | Tinian |  |
| Total                  | 6,871                | 6,086  | 417  | 367    | 100.0  | 100.0 | 100.0  |  |
| None                   | 1,020                | 870    | 69   | 81     | 14.3   | 16.5  | 22.1   |  |
| 1                      | 3,521                | 3,116  | 213  | 192    | 51.2   | 51.0  | 52.3   |  |
| 2                      | 1,641                | 1,492  | 93   | 56     | 24.5   | 22.3  | 15.3   |  |
| 3 or more              | 685                  | 607    | 41   | 37     | 10.0   | 9.8   | 10.1   |  |
| Vehicles per household | 1.3                  | 1.3    | 1.3  | 1.2    | ...    | ...   | ...    |  |

Source: 1990 CPH-6-CNMI Table 104

**Table 10.8 Registered and Inspected Government Vehicles by Type, 1984 to 2000**

| Year  | Total | Motorcycle | Sedan | Jeep | Pickup | Trucks & H.E. | Station wagon | Van | Bus |
|-------|-------|------------|-------|------|--------|---------------|---------------|-----|-----|
| 2000  | 1,198 | ...        | ...   | ...  | ...    | ...           | ...           | ... | ... |
| 1999  | 539   | 0          | 158   | 44   | 180    | 41            | 74            | 33  | 9   |
| 1998  | 188   | 0          | 53    | 8    | 66     | 9             | 46            | 0   | 6   |
| 1997  | 287   | 0          | 141   | 39   | 37     | 0             | 37            | 19  | 14  |
| 1996  | 169   | 0          | 75    | 21   | 31     | 12            | 25            | 2   | 3   |
| 1995  | 322   | 0          | 116   | 42   | 88     | 21            | 43            | 6   | 6   |
| 1994  | 523   | 2          | 156   | 19   | 199    | 25            | 59            | 30  | 33  |
| 1993  | 573   | 6          | 184   | 17   | 181    | 45            | 64            | 38  | 38  |
| 1992  | 590   | 3          | 212   | 22   | 202    | 46            | 41            | 41  | 23  |
| 1991  | 597   | 8          | 184   | 41   | 208    | 59            | 43            | 30  | 24  |
| 1990  | 187   | 0          | 69    | 8    | 61     | 36            | 6             | 7   | 0   |
| 1989* | 104   | 4          | 27    | 24   | 25     | 11            | 8             | 5   | 0   |
| 1988  | 348   | 3          | 106   | 19   | 142    | 16            | 27            | 18  | 17  |
| 1987  | 31    | 0          | 8     | 2    | 15     | 3             | 1             | 2   | 0   |
| 1986  | 30    | 3          | 15    | 0    | 6      | 0             | 4             | 1   | 1   |
| 1985  | 17    | 0          | 7     | 1    | 6      | 0             | 1             | 2   | 0   |
| 1984  | 28    | 0          | 6     | 1    | 7      | 0             | 1             | 0   | 13  |

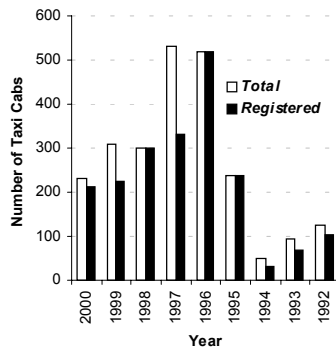
Source: Bureau of Motor Vehicles/DPS

Note: \*Figure is as of 1st quarter of 1989. From 1995 to present, Department of Public Safety has assumed Government vehicle registration. "..." means not available.

**Vehicles per Household**

Census data show an average of 1.3 vehicles per household in the CNMI in both 1990 and 1995. Approximately 23% of all CNMI households own 2 vehicles and nearly 9% own 3 or more vehicles. Auto ownership remains an important condition of island living in the absence of a public transit system.

**Figure 10.1** Number of Registered Taxicabs, CNMI: 1992 to 2000



### Taxi Cab Transportation

There were 232 registered taxi's in the CNMI in 2000, down from previous years. The number of taxi's peaked in 1996 during more prosperous economic times and declined precipitously following the economic crisis in Asia in 1997.

### Number of Sea Vessels

The number of sea vessels in Saipan increased annually since 1994.

**Table 10.9** Number of Taxicab Vehicles Registered, New, Renewal, and Non-Renewal: 1992 to 2000

| Year | Total | New | Renewal | Non-renewal |
|------|-------|-----|---------|-------------|
| 2000 | 232   | 43  | 169     | 20          |
| 1999 | 308   | 0   | 84      | 224         |
| 1998 | 300   | 0   | 300     | 0           |
| 1997 | 332   | 0   | 332     | 198         |
| 1996 | 520   | 0   | 520     | 0           |
| 1995 | 239   | 0   | 239     | 0           |
| 1994 | 32    | 0   | 32      | 17          |
| 1993 | 68    | 0   | 68      | 27          |
| 1992 | 104   | 0   | 104     | 20          |

Source: Bureau of Taxicabs, Department of Commerce

Note: New registered taxicabs were not recorded from Years 1992 to 1999.

**Table 10.10** Marine Vessel Inventory for Saipan: 1994 to 2000

| Type of Vessel                   | Year |      |      |      |      |      |      |
|----------------------------------|------|------|------|------|------|------|------|
|                                  | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 |
| Total                            | 976  | 849  | 831  | 777  | 732  | 679  | 596  |
| Subsistence/Recreational fishing | 415  | 334  | 322  | 300  | 342  | 301  | 272  |
| Part-time commercial fishing     | 150  | 142  | 140  | 124  | 62   | 69   | 59   |
| Full-time commercial fishing     | 124  | 121  | 121  | 112  | 101  | 90   | 84   |
| Charter fishing                  | 64   | 52   | 50   | 44   | 30   | 33   | 31   |
| Non-fishing boat                 | 206  | 186  | 184  | 181  | 191  | 180  | 144  |
| Other                            | 17   | 14   | 14   | 16   | 6    | 6    | 6    |

Source: Fish and Wildlife Division

**Table 10.11 Number of Installed Telephones by Type of Subscribers: 1982 to 2000**

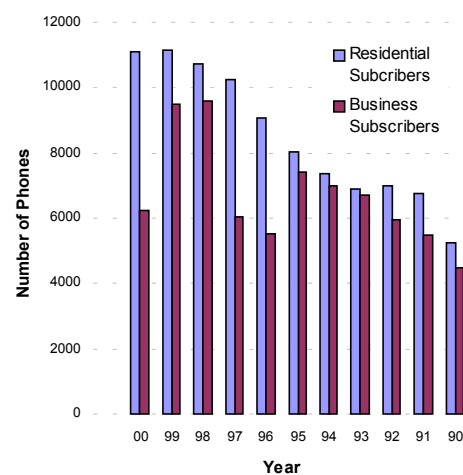
| Year | Total  | Residential Subscribers | Business Subscribers |
|------|--------|-------------------------|----------------------|
| 2000 | 17,361 | 11,113                  | 6,248                |
| 1999 | 20,635 | 11,132                  | 9,503                |
| 1998 | 20,322 | 10,733                  | 9,589                |
| 1997 | 16,306 | 10,242                  | 6,064                |
| 1996 | 14,567 | 9,052                   | 5,515                |
| 1995 | 15,460 | 8,038                   | 7,422                |
| 1994 | 14,358 | 7,356                   | 7,002                |
| 1993 | 13,618 | 6,919                   | 6,699                |
| 1992 | 12,971 | 6,999                   | 5,972                |
| 1991 | 12,240 | 6,761                   | 5,479                |
| 1990 | 9,773  | 5,264                   | 4,509                |
| 1989 | 7,232  | 3,826                   | 3,406                |
| 1988 | 5,634  | 3,334                   | 2,300                |
| 1987 | 5,022  | 2,819                   | 2,203                |
| 1986 | 4,576  | 2,870                   | 1,706                |
| 1985 | 2,389  | 1,264                   | 1,125                |
| 1984 | 2,245  | 1,214                   | 1,031                |
| 1983 | 1,829  | 1,012                   | 817                  |
| 1982 | 1,603  | 879                     | 724                  |

Source: Micronesian Telecommunications Corporation

**Number of Installed Telephones**

The number of residential and business telephones installed in the CNMI has risen rapidly since 1982. In 2000, there were 17,361 telephones installed in the CNMI, 64% of which were for residential subscribers. The number of telephones installed dropped sharply between 1999 and 2000, possibly a residual effect of the economic crisis that began a few years earlier.

**Figure 10.2 Total Number of Residential and Business Telephones: 1990 to 2000**



# Chapter 11

## FINANCE, BUSINESS ESTABLISHMENTS, AND TRADE

## Summary of Finance, Business Establishments and Trade

Chapter 11 represents data on CNMI's number of business establishments, general descriptive statistics on salaries and business receipts, and gross revenue generated at the region's major seaport. Much of the financial data provided has been extracted from the 1997 Economic Census of Outlying Areas, conducted every five years in years ending in 2 and 7. More current data will be available in subsequent yearbooks.

Data from additional tables show that total banking deposits increased annually from 1996 to 2000. The total amount in consumer loans has risen and fallen during the same period, although the amount in commercial loans borrowed has risen steadily over time.

The number of CNMI business establishments actually declined between 1992 and 1997, although the number of employees increased (by 8,801) predominantly in the apparel industry. The number of garment manufacturing establishments rose from 16 in 1992 to 39 five years later. According to recent newspaper reports, there were approximately 33 operating garment factories in the CNMI in 2000. The number of wholesale trade businesses and service industries increased over time as well, although services grew less aggressively.

The total value of major imported commodities such as petroleum and food stuffs, increased substantially between 1992 and 1997. The value of clothing, beverages, and vehicles fluctuated during this period but generally increased over time.

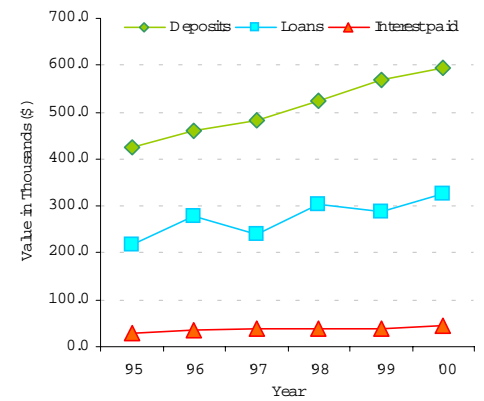
Historical data on gross revenue generated from inbound ocean cargo at the Saipan port show an increase between 1985 and 1990. Revenue dramatically increased in 1991 and dropped steeply a few years later. The amount of gross revenue increased between 1999 and 2000, although the number of containers received had declined.

**Table 11.1 Aggregated Banking Activities: 1996 to 2000**  
(Values in \$ Thousand)

| Banking Activity                   | Calendar Years |       |       |       |       |
|------------------------------------|----------------|-------|-------|-------|-------|
|                                    | 2000           | 1999  | 1998  | 1997  | 1996  |
| Deposits                           | 595.7          | 570.4 | 522.8 | 481.1 | 463.0 |
| Demand                             | 144.0          | 153.0 | 133.6 | 140.8 | 136.7 |
| Savings                            | 176.2          | 184.5 | 192.5 | 163.2 | 163.2 |
| TCDs                               | 275.5          | 232.9 | 196.7 | 177.0 | 163.1 |
| Loans                              | 325.0          | 288.3 | 304.7 | 239.4 | 280.2 |
| Consumer                           | 70.8           | 74.7  | 83.6  | 71.9  | 71.3  |
| Commercial                         | 209.6          | 159.9 | 165.3 | 134.5 | 173.5 |
| Real Estate Home Impr.             | 41.9           | 53.4  | 54.7  | 31.7  | 34.0  |
| Non-local                          | 0.0            | 0.0   | 0.0   | 0.0   | 0.0   |
| Government                         | 29.7           | 0.4   | 1.1   | 1.3   | 1.4   |
| Interest paid                      | 44.2           | 38.0  | 37.6  | 39.6  | 35.1  |
| All deposit accounts               | 18.6           | 14.4  | 14.3  | 14.9  | 12.7  |
| By borrowers                       | 25.7           | 23.7  | 23.4  | 24.8  | 22.3  |
| Commonwealth Development Authority | 25.0           | 6.5   | 8.3   | 7.0   | 4.3   |
| Direct loans                       | ...            | 0.9   | 2.2   | 0.5   | 1.0   |
| Guarantee loans                    | 25             | 5.6   | 6.0   | 6.5   | 3.3   |

Source: Department of Commerce and Commonwealth Development Authority

**Figure 11.1 Banking Activities: Bank Deposits, Loans and Interest Paid: 1996 to 2000**

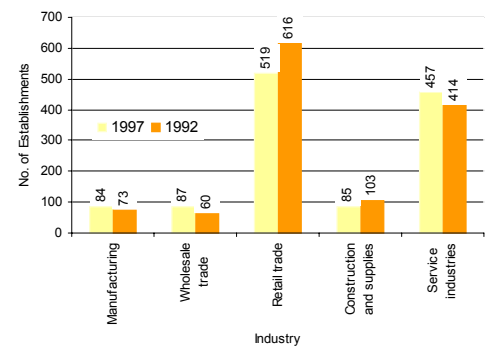


**Table 11.2 Number of CNMI Business Establishments and Number of Employees in Selected Industries: 1992 and 1997**

| Industry                  | Establishment |       | Percent Change | Employees |        | Percent Change |
|---------------------------|---------------|-------|----------------|-----------|--------|----------------|
|                           | 1997          | 1992  |                | 1997      | 1992   |                |
| Total                     | 1,232         | 1,266 | -2.7           | 28,906    | 20,105 | 43.8           |
| Manufacturing             | 84            | 73    | 15.1           | 13,715    | 6,267  | 118.8          |
| Garment                   | 39            | 16    | 143.8          | 12,457    | 4,926  | 152.9          |
| Wholesale trade           | 87            | 60    | 45.0           | 745       | 534    | 39.5           |
| Retail trade              | 519           | 616   | -15.7          | 4,811     | 4,715  | 2.0            |
| Restaurant                | 103           | 111   | -7.2           | 1,099     | 1,026  | 7.1            |
| Nightclubs and bars       | 26            | 56    | -53.6          | 360       | 485    | -25.8          |
| Construction and supplies | 85            | 103   | -17.5          | 2,302     | 3,036  | -24.2          |
| Service industries        | 457           | 414   | 10.4           | 7,333     | 5,553  | 32.1           |
| Hotel                     | 38            | 38    | 0.0            | 2,912     | 2,409  | 20.9           |
| Professional services     | 38            | 25    | 52.0           | 114       | 124    | -8.1           |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

**Figure 11.2 Number of Business Establishments in Selected Industries: 1997 and 1992**



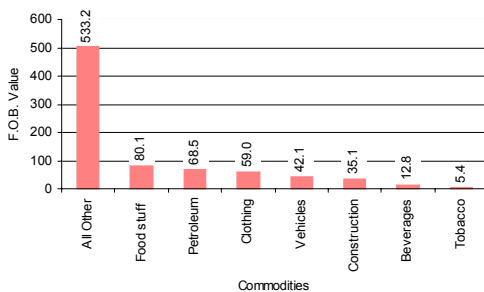


**Table 11.3 General Statistics: 1997, 1992, and 1987**

| Industry Division and Year | Number of Establishments | Sales and receipts (\$1,000) | Annual Payroll (\$1,000) | 1st quarter Payroll (\$1,000) | Number of paid employees |
|----------------------------|--------------------------|------------------------------|--------------------------|-------------------------------|--------------------------|
| <b>Total</b>               |                          |                              |                          |                               |                          |
| 1997                       | 1,232                    | 2,082,740                    | 323,069                  | 75,159                        | 28,906                   |
| 1992                       | 1,266                    | 1,132,039                    | 161,184                  | 37,551                        | 20,105                   |
| 1987                       | 768                      | 373,946                      | 57,311                   | 12,495                        | 9,090                    |
| <b>Construction</b>        |                          |                              |                          |                               |                          |
| 1997                       | 85                       | 87,942                       | 21,471                   | 4,531                         | 2,302                    |
| 1992                       | 103                      | 87,602                       | 17,712                   | 4,739                         | 3,036                    |
| 1987                       | 72                       | 43,488                       | 11,572                   | 1,745                         | 2,061                    |
| <b>Manufacturing</b>       |                          |                              |                          |                               |                          |
| 1997                       | 84                       | 762,080                      | 146,583                  | 32,078                        | 13,715                   |
| 1992                       | 73                       | 264,467                      | 48,652                   | 9,572                         | 6,267                    |
| 1987                       | 39                       | 58,138                       | 14,495                   | 3,217                         | 2,257                    |
| <b>Wholesale trade</b>     |                          |                              |                          |                               |                          |
| 1997                       | 57                       | 222,655                      | 9,417                    | 2,175                         | 745                      |
| 1992                       | 60                       | 132,095                      | 5,877                    | 1,290                         | 534                      |
| 1987                       | 28                       | 49,746                       | 1,598                    | 361                           | 187                      |
| <b>Retail trade</b>        |                          |                              |                          |                               |                          |
| 1997                       | 519                      | 570,266                      | 54,186                   | 13,656                        | 4,811                    |
| 1992                       | 616                      | 384,354                      | 37,969                   | 9,035                         | 4,715                    |
| 1987                       | 383                      | 155,378                      | 14,138                   | 3,519                         | 2,304                    |
| <b>Service industries</b>  |                          |                              |                          |                               |                          |
| 1997                       | 457                      | 439,797                      | 91,412                   | 22,719                        | 7,333                    |
| 1992                       | 414                      | 263,521                      | 50,974                   | 12,915                        | 5,553                    |
| 1987                       | 246                      | 67,196                       | 15,508                   | 3,653                         | 2,281                    |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

\*Note: More recent data were not available for this printing.

**Figure 11.3 Major Import Commodities by Freight on Board (F.O.B.) Value: FY 1997****Table 11.4 Value of Major Imported Commodities: FY1992 to FY1997 (in U.S. million \$)**

| Commodity                          | 1997  | 1996  | 1995  | 1994  | 1993  | 1992  |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| Total                              | 836.2 | 551.2 | 528.0 | 513.7 | 513.0 | 493.9 |
| Petroleum products                 | 68.5  | 65.3  | 70.4  | 55.1  | 50.8  | 39.2  |
| Const. Materials (inc. fixtures)   | 35.1  | 16.8  | 17.2  | 23.3  | 21.3  | 28.8  |
| Food stuff                         | 80.1  | 39.5  | 44.7  | 44.3  | 31.0  | 43.8  |
| Vehicles (incl. parts)             | 42.1  | 34.2  | 35.6  | 30.7  | 24.8  | 32.4  |
| Beverages other than dairy & juice | 12.8  | 15.1  | 20.4  | 16.0  | 15.1  | 15.9  |
| Tobacco Products                   | 5.4   | 4.9   | 5.5   | 6.7   | 7.2   | 9.9   |
| Clothing                           | 59.0  | 27.1  | 18.5  | 28.9  | 26.9  | 28.1  |
| All Other                          | 533.2 | 348.1 | 315.8 | 308.7 | 335.9 | 295.8 |

Source: Division of Customs Service and Department of Finance

\*Note: More recent data were not available for this printing.

**Table 11.5 Inbound and Outbound Ocean Cargo, Port of Saipan Seaport: FY 1985 to FY 2000**

| Fiscal Year | Inbound Ocean Cargo |                | Outbound Ocean Cargo |                |
|-------------|---------------------|----------------|----------------------|----------------|
|             | Revenue Tons        | Percent Change | Revenue Tons         | Percent Change |
| 2000        | 425,948             | -12.0          | 184,125              | -0.9           |
| 1999        | 484,153             | -12.7          | 185,786              | -7.4           |
| 1998        | 554,283             | 20.0           | 200,575              | 44.3           |
| 1997        | 462,029             | -33.3          | 138,985              | 17.9           |
| 1996        | 692,268             | 10.8           | 117,863              | 27.6           |
| 1995        | 624,653             | 7.2            | 92,385               | 4.2            |
| 1994        | 582,438             | 29.9           | 88,655               | -25.1          |
| 1993        | 448,352             | 11.9           | 118,442              | 13.4           |
| 1992        | 400,577             | -35.0          | 104,413              | 13.5           |
| 1991        | 616,147             | 55.0           | 91,966               | 64.4           |
| 1990        | 397,560             | 34.9           | 55,947               | 104.2          |
| 1989        | 294,774             | 12.9           | 27,402               | -11.8          |
| 1988        | 261,195             | 24.2           | 31,060               | -6.5           |
| 1987        | 210,321             | 20.8           | 33,214               | -35.7          |
| 1986        | 174,077             | 31.5           | 51,691               | 99.5           |
| 1985        | 132,358             | 24.7           | 25,907               | -10.0          |

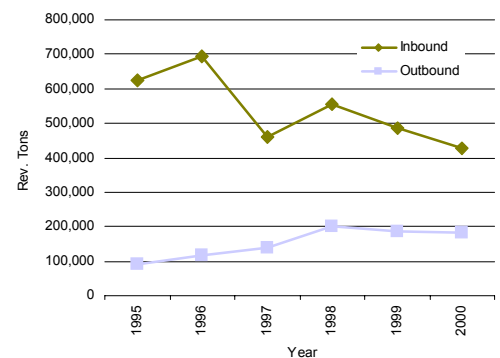
Source: Commonwealth Ports Authority

**Table 11.6 Gross Revenue Tons and Container Trends, Port of Saipan: FY 1985 to FY 2000**

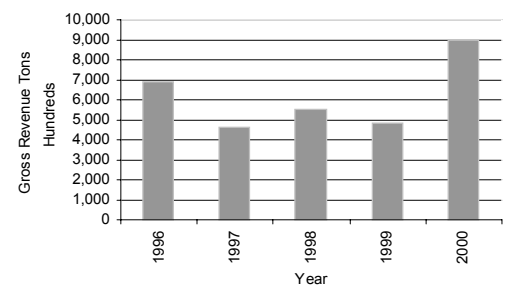
| Year | Gross Revenue Tons |          | Containers |          |
|------|--------------------|----------|------------|----------|
|      | Amount             | % Growth | Number     | % Growth |
| 2000 | 898,637            | 34       | 14,703     | -4       |
| 1999 | 669,939            | -11      | 15,268     | 2        |
| 1998 | 754,858            | 25.6     | 15,017     | -15.1    |
| 1997 | 601,014            | 18.7     | 17,687     | 11.7     |
| 1996 | 506,140            | 3.1      | 15,839     | 5.0      |
| 1995 | 491,127            | -26.8    | 15,086     | 6.7      |
| 1994 | 671,093            | 19.1     | 14,136     | 9.5      |
| 1993 | 563,494            | 13.8     | 12,908     | -6.0     |
| 1992 | 495,018            | -29.6    | 13,738     | 92.5     |
| 1991 | 703,604            | 55.1     | 7,137      | -23.3    |
| 1990 | 453,507            | 40.8     | 9,307      | 2.9      |
| 1989 | 322,175            | 10.2     | 9,042      | -18.9    |
| 1988 | 292,255            | 20.0     | 11,151     | 30.6     |
| 1987 | 243,536            | 4.0      | 8,536      | 54.8     |
| 1986 | 234,266            | 48.0     | 5,515      | 27.8     |
| 1985 | 158,266            | 17.3     | 4,317      | 14.0     |

Source: Commonwealth Ports Authority

**Figure 11.4 Inbound and Outbound Ocean Cargo of Saipan Port: 1994 to 1999**



**Figure 11.5 Gross Revenue Tonnage at Saipan Port: 1996 to 2000**

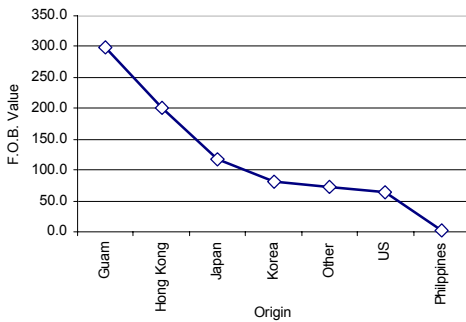


**Table 11.7 Origin and Freight on Board Value of Import Commodities,  
CNMI: Fiscal Years 1993 to 1997 (in US million \$ dollars)**

| Commodity     | 1997  | 1996  | 1995   | 1994  | 1993  | 1992  | 1991  |
|---------------|-------|-------|--------|-------|-------|-------|-------|
| Total         | 836.2 | 551.2 | 528.0  | 513.7 | 513.0 | 493.9 | 392.2 |
| United States | 63.3  | 198.9 | 198.17 | 223.1 | 223.5 | 301.2 | 71.6  |
| Guam          | 298.0 | 53.1  | 39.36  | 37.2  | 36.9  | 39.7  | 158.5 |
| Japan         | 118.3 | 39.1  | 50.51  | 47.4  | 48.7  | 46.1  | 65.0  |
| Philippines   | 2.8   | 5.3   | 4.64   | 5.1   | 5.2   | 15.3  | 11.7  |
| Hong Kong     | 200.5 | 121.0 | 99.50  | 86.3  | 70.7  | 34.4  | 28.8  |
| Korea         | 80.6  | 60.1  | 64.90  | 49.9  | 68.8  | 27.6  | 0.0   |
| Other Areas   | 72.7  | 73.7  | 70.97  | 64.7  | 59.2  | 29.6  | 56.6  |

Source: Department of Finance

**Figure 11.6 Container Trends at Saipan Port: 1997**



**Table 11.8 General Statistics by Industry and Selected Type of Business: 1997**

| Industry and Type of business          | Number of Establishments | Sales and Receipts (\$1,000) | Annual Payroll (\$1,000) | 1st Quarter Payroll (\$1,000) | Number of Paid Employees |
|--|--------------------------|------------------------------|--------------------------|-------------------------------|--------------------------|
| Total                                  | 1,232                    | 2,082,740                    | 323,069                  | 75,159                        | 28,906                   |
| Construction                           | 85                       | 87,942                       | 21,471                   | 4,531                         | 2,302                    |
| General building contractor            | 52                       | 42,829                       | 10,032                   | 2,111                         | 1,172                    |
| Manufacturing                          | 84                       | 762,080                      | 146,583                  | 32,078                        | 13,715                   |
| Food & kindred products                | 6                        | 5,505                        | 5,505                    | 323                           | 133                      |
| Apparel & other textile products       | 39                       | 699,631                      | D                        | 28,985                        | 12,457                   |
| Wholesale trade                        | 87                       | 222,655                      | 9,417                    | 2,175                         | 745                      |
| Durable goods                          | 26                       | 50,451                       | 3,152                    | 772                           | 227                      |
| Non durable goods                      | 61                       | 172,204                      | 6,265                    | 1,403                         | 518                      |
| Retail trade                           | 519                      | 570,266                      | 54,186                   | 13,656                        | 4,811                    |
| Building materials and garden supplies | 21                       | 36,938                       | 3,843                    | 1,029                         | 324                      |
| Food stores                            | 73                       | 44,859                       | 3,976                    | 875                           | 419                      |
| Gasoline service stations              | 24                       | D                            | D                        | D                             | C                        |
| Eating and drinking places             | 129                      | 55,440                       | 12,369                   | 3,121                         | 1,459                    |
| Service industries                     | 457                      | 439,797                      | 91,412                   | 22,719                        | 7,333                    |
| Tour operators                         | 30                       | 34,999                       | 9,849                    | 2,385                         | 525                      |
| Hotels and motels                      | 33                       | 195,159                      | 34,446                   | 8,887                         | 2,912                    |
| Personal services                      | 38                       | 8,867                        | 2,291                    | 537                           | 249                      |
| Amusement and recreation               | 88                       | 91,028                       | 14,904                   | 3,693                         | 1,178                    |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

\*Note: "C" means 100 to 249 employees, "D" means data withheld to avoid disclosing individual firms.

**Table 11.9 Number of Businesses by Legal Form of Organization: 1997**

| Industry           | Total | Corporations | Individual proprietorship | Partnerships | Others |
|--------------------|-------|--------------|---------------------------|--------------|--------|
| Total              | 1,233 | 1,046        | 160                       | 17           | 10     |
| Construction       | 86    | 75           | 11                        | 0            | 0      |
| Manufacturing      | 84    | 79           | 4                         | 1            | 0      |
| Wholesale trade    | 87    | 81           | 5                         | 0            | 1      |
| Retail trade       | 519   | 448          | 63                        | 4            | 4      |
| Service industries | 457   | 363          | 77                        | 12           | 5      |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

**Table 11.10 General Statistics by Industry Group and Island: 1997**

| Industry Division and Island | No. of Establishments | Sales and receipts (\$1,000) | Annual payroll (\$1,000) | First quarter payroll (\$1,000) | No. of Employees Paid for Mar. 12 | Proprietors and partners (number) | Unpaid family workers (number) |
|------------------------------|-----------------------|------------------------------|--------------------------|---------------------------------|-----------------------------------|-----------------------------------|--------------------------------|
| <b>Total</b>                 | <b>1,232</b>          | <b>2,082,740</b>             | <b>323,069</b>           | <b>75,159</b>                   | <b>28,906</b>                     | <b>213</b>                        | <b>26</b>                      |
| Construction                 | 85                    | 87,942                       | 21,471                   | 4,531                           | 2,302                             | 13                                | 0                              |
| Manufacturing                | 84                    | 762,080                      | 146,583                  | 32,078                          | 13,715                            | 5                                 | 0                              |
| Wholesale trade              | 87                    | 222,655                      | 9,417                    | 2,175                           | 745                               | 7                                 | 0                              |
| Retail trade                 | 519                   | 570,266                      | 54,186                   | 13,656                          | 4,811                             | 78                                | 14                             |
| Service industries           | 457                   | 439,797                      | 91,412                   | 22,719                          | 7,333                             | 110                               | 12                             |
| <b>Saipan</b>                | <b>1,166</b>          | <b>2,038,911</b>             | <b>314,571</b>           | <b>73,470</b>                   | <b>28,068</b>                     | <b>188</b>                        | <b>19</b>                      |
| Construction                 | 80                    | D                            | D                        | D                               | g                                 | D                                 | D                              |
| Manufacturing                | 81                    | 758,285                      | 146,231                  | 32,006                          | 13,686                            | 5                                 | 0                              |
| Wholesale trade              | 83                    | D                            | D                        | D                               | f                                 | D                                 | D                              |
| Retail trade                 | 489                   | 557,146                      | 52,705                   | 13,277                          | 4,580                             | 60                                | 10                             |
| Service industries           | 433                   | 430,262                      | 87,954                   | 21,835                          | 6,989                             | 103                               | 9                              |
| <b>Tinian</b>                | <b>30</b>             | <b>18,752</b>                | <b>3,658</b>             | <b>458</b>                      | <b>299</b>                        | <b>5</b>                          | <b>1</b>                       |
| Construction                 | 3                     | D                            | D                        | D                               | c                                 | D                                 | D                              |
| Manufacturing                | 2                     | D                            | D                        | D                               | a                                 | D                                 | D                              |
| Wholesale trade              | 2                     | D                            | D                        | D                               | a                                 | D                                 | D                              |
| Retail trade                 | 12                    | 4,749                        | 640                      | 155                             | 88                                | 4                                 | 1                              |
| Service industries           | 11                    | 1,011                        | 366                      | 107                             | 39                                | 1                                 | 0                              |
| <b>Rota</b>                  | <b>36</b>             | <b>25,077</b>                | <b>4,840</b>             | <b>1,231</b>                    | <b>539</b>                        | <b>20</b>                         | <b>6</b>                       |
| Construction                 | 2                     | D                            | D                        | D                               | b                                 | D                                 | D                              |
| Manufacturing                | 1                     | D                            | D                        | D                               | a                                 | D                                 | D                              |
| Wholesale trade              | 2                     | D                            | D                        | D                               | a                                 | D                                 | D                              |
| Retail trade                 | 18                    | 8,371                        | 841                      | 224                             | 143                               | 14                                | 3                              |
| Service industries           | 13                    | 8,524                        | 3,092                    | 777                             | 305                               | 6                                 | 3                              |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

\*Note: Letters mean number of employees, "a" is 0 to 19, "b" is 20 to 99, "c" is 100 to 249, "e" is 250 to 499, "f" is 500 to 999,

"g" is 1,000 to 2,499 and "D" means data withheld to avoid disclosing figures for individual establishments, data are included in the total

**Table 11.11 Number of Establishments by Business Gross Receipts and Industry: 1997**

| Sales and Receipts Size | Total | Construction | Manufacturing | Wholesale Trade | Retail Trade | Service Industries |
|-------------------------|-------|--------------|---------------|-----------------|--------------|--------------------|
| Total                   | 1,232 | 85           | 84            | 87              | 519          | 457                |
| Less than \$5,000       | 9     | 3            | 0             | 0               | 1            | 5                  |
| \$5,000 to \$9,999      | 12    | 1            | 0             | 0               | 4            | 7                  |
| \$10,000 to \$24,999    | 61    | 3            | 1             | 1               | 30           | 26                 |
| \$25,000 to \$49,999    | 83    | 3            | 3             | 2               | 33           | 42                 |
| \$50,000 to \$99,999    | 144   | 7            | 5             | 7               | 65           | 60                 |
| \$100,000 to \$249,999  | 314   | 25           | 16            | 13              | 137          | 123                |
| \$250,000 to \$499,999  | 187   | 15           | 9             | 12              | 76           | 75                 |
| \$500,000 to \$999,999  | 162   | 7            | 11            | 17              | 75           | 52                 |
| \$1,000,000 or more     | 260   | 21           | 39            | 35              | 98           | 67                 |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

**Table 11.12 Distribution of Establishments by Citizenship Status of Owner for Industry Group and Island: 1997**

| Industry Division and Islands | Citizenship Status of Owner of Establishment* |                           |                     |            |             |            |                |           |
|-------------------------------|---|---------------------------|---------------------|------------|-------------|------------|----------------|-----------|
|                               | Total Establishments                          | United States / CNMI born | United States Other | Japan      | Philippines | Korea      | China / Taiwan | Other     |
| <b>Total CNMI</b>             | <b>1,232</b>                                  | <b>259</b>                | <b>318</b>          | <b>141</b> | <b>60</b>   | <b>133</b> | <b>92</b>      | <b>32</b> |
| Construction                  | 85  | 15                        | 22                  | 6          | 4           | 8          | 7              | 2         |
| Manufacturing                 | 84  | 10                        | 21                  | 2          | 5           | 19         | 12             | 6         |
| Wholesale trade               | 87  | 15                        | 35                  | 4          | 7           | 8          | 8              | 3         |
| Retail trade                  | 519   | 107                       | 115                 | 54         | 27          | 61         | 51             | 14        |
| Service industries            | 457   | 112                       | 125                 | 75         | 17          | 37         | 14             | 7         |
| <b>Saipan</b>                 | <b>1,166</b>                                  | <b>221</b>                | <b>303</b>          | <b>135</b> | <b>60</b>   | <b>132</b> | <b>91</b>      | <b>29</b> |
| Construction                  | 80  | 14                        | 20                  | 6          | 4           | 8          | 6              | 2         |
| Manufacturing                 | 81  | 10                        | 20                  | 1          | 5           | 19         | 12             | 5         |
| Wholesale trade               | 83  | 13                        | 33                  | 4          | 7           | 8          | 8              | 3         |
| Retail trade                  | 489   | 87                        | 107                 | 54         | 27          | 61         | 51             | 12        |
| Service industries            | 433   | 97                        | 123                 | 70         | 17          | 36         | 14             | 7         |
| <b>Tinian</b>                 | <b>30</b>                                     | <b>16</b>                 | <b>8</b>            | <b>0</b>   | <b>0</b>    | <b>1</b>   | <b>1</b>       | <b>2</b>  |
| Construction                  | 3   | 0                         | 1                   | 0          | 0           | 0          | 1              | 0         |
| Manufacturing                 | 2   | 0                         | 1                   | 0          | 0           | 0          | 0              | 1         |
| Wholesale trade               | 2   | 1                         | 1                   | 0          | 0           | 0          | 0              | 0         |
| Retail trade                  | 12  | 8                         | 3                   | 0          | 0           | 0          | 0              | 1         |
| Service industries            | 11  | 7                         | 2                   | 0          | 0           | 1          | 0              | 0         |
| <b>Rota</b>                   | <b>36</b>                                     | <b>22</b>                 | <b>7</b>            | <b>6</b>   | <b>0</b>    | <b>0</b>   | <b>0</b>       | <b>1</b>  |
| Construction                  | 2   | 1                         | 1                   | 0          | 0           | 0          | 0              | 0         |
| Manufacturing                 | 1   | 0                         | 0                   | 1          | 0           | 0          | 0              | 0         |
| Wholesale trade               | 2   | 1                         | 1                   | 0          | 0           | 0          | 0              | 0         |
| Retail trade                  | 18  | 12                        | 5                   | 0          | 0           | 0          | 0              | 1         |
| Service industries            | 13  | 8                         | 0                   | 5          | 0           | 0          | 0              | 0         |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

\*Note: Establishment counts by citizenship status do not equal total establishments. The difference represents establishments that did not report citizenship.

**Table 11.13 Business Industry Divisions by Business Gross Receipts:**  
(In US \$1,000 dollars), 1997

| Sales and receipts size | Total     | Construction | Manufacturing | Wholesale trade | Retail trade | Service industries |
|-------------------------|-----------|--------------|---------------|-----------------|--------------|--------------------|
| Total                   | 2,082,211 | 87,744       | 761,965       | 222,546         | 570,234      | 439,722            |
| Less than \$5,000       | 0         | D            | 0             | 0               | D            | D                  |
| \$5,000 to \$9,999      | 0         | D            | 0             | 0               | D            | D                  |
| \$10,000 to \$24,999    | 943       | D            | D             | D               | 495          | 448                |
| \$25,000 to \$49,999    | 2,860     | D            | D             | D               | 1,272        | 1,588              |
| \$50,000 to \$99,999    | 10,649    | 515          | 347           | 453             | 4,885        | 4,449              |
| \$100,000 to \$249,999  | 51,864    | 4,064        | 2,303         | 2,178           | 22,752       | 20,567             |
| \$250,000 to \$499,999  | 68,231    | 5,472        | 3,185         | 4,583           | 27,820       | 27,171             |
| \$500,000 to \$999,999  | 112,233   | 4,350        | 8,189         | 12,157          | 52,244       | 35,293             |
| \$1,000,000 or more     | 1,835,431 | 73,343       | 747,941       | 203,175         | 460,766      | 350,206            |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

Note: (D) means withheld to avoid disclosing figures for individual establishments, data included in totals.

**Table 11.14 Number of Business Activities Issued in the CNMI: 1996 to 2000**

| Activity  | YEAR  |       |       |       |       |
|---|-------|-------|-------|-------|-------|
|   | 2000  | 1999  | 1998  | 1997  | 1996  |
| Total   | 7,873 | 7,116 | 7,449 | 9,751 | 8,507 |
| Agriculture, forestry, and fishing                                | 82    | 134   | 128   | 122   | 117   |
| Mining  | 15    | 4     | 7     | 9     | 0     |
| Construction  | 530   | 357   | 405   | 607   | 440   |
| Manufacturing   | 323   | 173   | 201   | 325   | 198   |
| Transportation, communication,<br>electric, and sanitary services | 326   | 534   | 504   | 688   | 551   |
| Wholesale trade   | 421   | 331   | 312   | 628   | 307   |
| Retail trade  | 2,151 | 2,381 | 2,447 | 2,598 | 2,287 |
| Finance, insurance, and real estate<br>services                   | 1,654 | 852   | 1,064 | 1,316 | 1,182 |
| Public Administration   | 2,371 | 2,350 | 2,378 | 3,455 | 2,653 |
| Nonclassifiable establishments                                    | 0     | 0     | 3     | 3     | 3     |
|   | 0     | 0     | 0     | 0     | 769   |

Source: Business License Section, Department of Commerce

Note: Data for 1996 encompass the period January through June 1996.

Table 11.15 General Statistics by Employment: 1997

| Industry Division and Employment | No. of Establish-ment | Sales and Receipts (\$1,000) | Annual Payroll (\$1,000) | First quarter payroll (\$1,000) | Paid employees for Mar. 12 | Proprietors and Partners | Unpaid family workers |
|----------------------------------|-----------------------|------------------------------|--------------------------|---------------------------------|----------------------------|--------------------------|-----------------------|
| <b>Total</b>                     | <b>1,232</b>          | <b>2,082,740</b>             | <b>323,069</b>           | <b>75,159</b>                   | <b>28,906</b>              | <b>213</b>               | <b>26</b>             |
| With no paid employees           | 97                    | 11,598                       | 3893                     | 0                               | 102                        | 19                       | 1                     |
| With paid employees              | 1,135                 | 2,071,142                    | 319,176                  | 75,159                          | 28,906                     | 194                      | 25                    |
| 1 to 4 employees                 | 462                   | 120,502                      | 12,495                   | 2,750                           | 1,045                      | 85                       | 17                    |
| 5 to 9 employees                 | 275                   | 151,380                      | 20,588                   | 5,075                           | 1,828                      | 47                       | 4                     |
| 10 to 19 employees               | 195                   | 172,968                      | 27,543                   | 6,670                           | 2,608                      | 40                       | 2                     |
| 20 to 49 employees               | 120                   | 346,437                      | 38,158                   | 9,444                           | 3,694                      | 19                       | 2                     |
| 50 employees or more             | 83                    | 1,279,855                    | 220,392                  | 51,220                          | 19,731                     | 3                        | 0                     |
| <b>Construction</b>              | <b>85</b>             | <b>87,942</b>                | <b>21,471</b>            | <b>4,531</b>                    | <b>2,302</b>               | <b>13</b>                | <b>0</b>              |
| With no paid employees           | 9                     | D                            | D                        | D                               | a                          | D                        | D                     |
| With paid employees              | 76                    | 34,142                       | 7,274                    | 1,522                           | 784                        | 7                        | 0                     |
| 1 to 4 employees                 | 15                    | 10,079                       | 1,070                    | 123                             | 28                         | 0                        | 0                     |
| 5 to 9 employees                 | 22                    | D                            | D                        | D                               | c                          | D                        | D                     |
| 10 to 19 employees               | 11                    | 4,453                        | 1,264                    | 291                             | 148                        | 4                        | 0                     |
| 20 to 49 employees               | 19                    | 19,610                       | 4,940                    | 1,108                           | 608                        | 3                        | 0                     |
| 50 employees or more             | 9                     | D                            | D                        | D                               | g                          | D                        | D                     |
| <b>Manufacturing</b>             | <b>84</b>             | <b>762,080</b>               | <b>146,583</b>           | <b>32,078</b>                   | <b>13,715</b>              | <b>5</b>                 | <b>0</b>              |
| With no paid employees           | 6                     | 4,107                        | 2,865                    | 0                               | 0                          | 0                        | 0                     |
| With paid employees              | 78                    | 757,973                      | 143,718                  | 32,078                          | 13,715                     | 5                        | 0                     |
| 1 to 4 employees                 | 16                    | 1,985                        | 424                      | 95                              | 43                         | 2                        | 0                     |
| 5 to 9 employees                 | 16                    | 7,212                        | 1,248                    | 300                             | 113                        | 1                        | 0                     |
| 10 to 19 employees               | 6                     | 3,343                        | 853                      | 203                             | 74                         | 1                        | 0                     |
| 20 to 49 employees               | 8                     | 11,705                       | 2,444                    | 511                             | 238                        | 0                        | 0                     |
| 50 employees or more             | 32                    | 733,728                      | 138,749                  | 30,969                          | 13,247                     | 1                        | 0                     |
| <b>Wholesale trade</b>           | <b>87</b>             | <b>222,655</b>               | <b>9,417</b>             | <b>2,175</b>                    | <b>745</b>                 | <b>7</b>                 | <b>0</b>              |
| With no paid employees           | 2                     | D                            | D                        | D                               | a                          | D                        | D                     |
| With paid employees              | 85                    | 199,015                      | 7,368                    | 1,745                           | 553                        | 5                        | 0                     |
| 1 to 4 employees                 | 41                    | 38,024                       | 1,422                    | 343                             | 102                        | 3                        | D                     |
| 5 to 9 employees                 | 21                    | D                            | D                        | D                               | c                          | D                        | D                     |
| 10 to 19 employees               | 14                    | 27,248                       | 2,177                    | 535                             | 159                        | 2                        | 0                     |
| 20 to 49 employees               | 8                     | 133,743                      | 3,769                    | 867                             | 292                        | 0                        | 0                     |
| 50 employees or more             | 1                     | D                            | D                        | D                               | b                          | D                        | D                     |
| <b>Retail trade</b>              | <b>519</b>            | <b>570,266</b>               | <b>54,186</b>            | <b>13,656</b>                   | <b>4,811</b>               | <b>78</b>                | <b>14</b>             |
| With no paid employees           | 54                    | 3,403                        | 417                      | 0                               | 0                          | 12                       | 0                     |
| With paid employees              | 465                   | 566,863                      | 53,769                   | 13,656                          | 4,811                      | 66                       | 14                    |
| 1 to 4 employees                 | 210                   | 42,685                       | 4,061                    | 935                             | 474                        | 31                       | 9                     |
| 5 to 9 employees                 | 108                   | 80,163                       | 7,337                    | 1,780                           | 707                        | 10                       | 3                     |
| 10 to 19 employees               | 84                    | 83,838                       | 10,925                   | 2,723                           | 1,133                      | 14                       | 0                     |
| 20 to 49 employees               | 54                    | 142,759                      | 16,680                   | 4,281                           | 1,586                      | 11                       | 2                     |
| 50 employees or more             | 9                     | 217,418                      | 14,766                   | 3,937                           | 911                        | 0                        | 0                     |
| <b>Service industries</b>        | <b>457</b>            | <b>439,797</b>               | <b>91,412</b>            | <b>22,719</b>                   | <b>7,333</b>               | <b>110</b>               | <b>12</b>             |
| With no paid employees           | 26                    | 2,988                        | 427                      | 0                               | 0                          | 5                        | 1                     |
| With paid employees              | 431                   | 436,809                      | 90,985                   | 22,719                          | 7,333                      | 105                      | 11                    |
| 1 to 4 employees                 | 180                   | 27,729                       | 5,518                    | 1,254                           | 398                        | 49                       | 8                     |
| 5 to 9 employees                 | 108                   | 35,780                       | 8,899                    | 2,270                           | 720                        | 32                       | 1                     |
| 10 to 19 employees               | 80                    | 54,086                       | 12,324                   | 2,918                           | 1,094                      | 19                       | 2                     |
| 20 to 49 employees               | 31                    | 38,620                       | 10,325                   | 2,677                           | 970                        | 5                        | 0                     |
| 50 employees or more             | 32                    | 280,594                      | 53,919                   | 13,600                          | 4,151                      | 0                        | 0                     |

Source: 1997 Economic Census of Outlying Areas: Northern Mariana Islands

\*Note: Letters mean number of employees, "a" is 0 to 19, "b" is 20 to 99, "c" is 100 to 249, "e" is 250 to 499, "f" is 500 to 999, "g" is 1,000 to 2,499 and "D" means data withheld to avoid disclosing figures for individual establishments.

Data are included in the totals.

Chapter 12  
FISHING AND AGRICULTURE



## Summary of Fishing and Agriculture

In 1999, fishermen caught 340,351 pounds of fish and sold in the CNMI. Troll fish (52%) was the largest common group of fish landed in 1999, followed by reef fish (37 percent).

Although the CNMI is a net importer of fish; there was a dramatic decrease in total fish imported between 1992 to 1997. In 1999, approximately 34% of fish imported came from Guam, 22% from the Philippines, 18% from Palau, and 14% from Yap.

Data from the last agricultural census show that there were 346 farms in CNMI in 1990, with an average size of 48 acres. Total farming land area was estimated at approximately 117,760 acres. There were 281 farms with crops; 36 farms had cattle for a total of 4,513 cattle; 66 farms had pigs and hogs with a total of 1,260 animals; and 21 farms had goats with a total of 482 animals. Thirty seven of the livestock farms sold livestock products worth a total of \$367,383.

There were 81 farms that had poultry and 6 of these farms sold poultry worth a total of \$6,690. Eight of these farms sold poultry and eggs worth a combined total of \$12,115 in 1990.

**Table 12.1 Amount and Value of CNMI Commercial Fish Landing  
by Common Species: 2000**

| Common Species        | Weight (lb) | Value (\$) | Price per lb. (\$) |
|-----------------------|-------------|------------|--------------------|
| Total                 | 334,712     | 767,469    | 2.29               |
| Assorted              | 2,539       | 4,007      | 1.58               |
| Bigeye scad (atuhai)  | 19,074      | 53,014     | 2.78               |
| Jacks                 | 1,578       | 4,148      | 2.63               |
| Mullet                | 89          | 234        | 2.62               |
| Bottom fish           | 11,099      | 29,095     | 2.62               |
| Gindai (flower snap)  | 172         | 457        | 2.66               |
| Groupers              | 2,895       | 6,690      | 2.31               |
| O naga (red snapper)  | 8,390       | 28,538     | 3.40               |
| O pakapaka (pink snp) | 1,280       | 3,672      | 2.87               |
| Silvermouth (lehi)    | 2,091       | 6,305      | 3.01               |
| Reef fish             | 98,546      | 228,570    | 2.32               |
| Wrasse                | 586         | 1,758      | 3.00               |
| Rabbitfish            | 9,869       | 32,602     | 3.30               |
| Rudderfish (guilli)   | 682         | 2,040      | 2.99               |
| Emperor (mafute)      | 8,226       | 23,141     | 2.81               |
| Squirrelfish          | 273         | 762        | 2.79               |
| Parrotfish            | 7,071       | 21,136     | 2.99               |
| Snapper               | 152         | 351        | 2.31               |
| Surgeonfish           | 1,911       | 5,628      | 2.95               |
| Surgeon (Hagnon)      | 3,691       | 10,903     | 2.95               |
| Unicornfish           | 5,172       | 14,012     | 2.71               |
| Goatfish              | 1,232       | 3,382      | 2.75               |
| Trollfish             | 3,960       | 6,069      | 1.53               |
| Dolphin (mahinahi)    | 5,665       | 12,370     | 2.18               |
| Marlin                | 2,886       | 4,670      | 1.62               |
| Rainbow runner        | 1,111       | 2,492      | 2.24               |
| Wahoo                 | 3,223       | 7,542      | 2.34               |
| Tuna                  | 1,100       | 1,977      | 1.80               |
| Skipjack tuna         | 111,281     | 205,222    | 1.84               |
| Dogtooth tuna         | 1,854       | 3,511      | 1.89               |
| Yellowfin tuna        | 13,924      | 27,966     | 2.01               |
| Lobster               | 2,494       | 13,760     | 5.52               |
| Octopus               | 598         | 1,445      | 2.42               |

Source: Fish and Wildlife Division, Department of Natural Resources

**Table 12.2 Amount and Value of CNMI Commercial Fish  
Landing by Common Species: 1999**

| Common Species           | Weight (lb) | Value (\$) | Price per lb.<br>(\$) |
|--------------------------|-------------|------------|-----------------------|
| Total                    | 340,731     | 841,009    | 2.47                  |
| Assorted                 | 91          | 182        | 2.00                  |
| Miscellaneous            | 16          | 56         | 3.50                  |
| Bigeye scad (atulai)     | 8,168       | 23,652     | 2.90                  |
| Jacks                    | 1,616       | 5,409      | 3.35                  |
| Mullet                   | 25          | 63         | 2.50                  |
| Bottom fish              | 5,603       | 15,299     | 2.73                  |
| Ehu (Red Snapper)        | 657         | 2,298      | 0.29                  |
| Sickle Pomfret (W/Woman) | 186         | 479        | 0.00                  |
| Gindai (flower snap)     | 2,949       | 10,259     | 3.48                  |
| Groupers                 | 3,121       | 9,303      | 2.98                  |
| Kalkali (Pink Snapper)   | 5           | 18         | 3.50                  |
| O naga                   | 13,881      | 60,137     | 4.33                  |
| O pakapaka (pink snp)    | 1,418       | 4,796      | 3.38                  |
| Silvermouth (lehi)       | 7,989       | 34,042     | 4.26                  |
| Amberjack                | 275         | 953        | 3.47                  |
| Reef fish                | 127,474     | 309,863    | 2.43                  |
| Wasse                    | 111         | 318        | 0.00                  |
| Rabbitfish               | 5,154       | 16,965     | 3.29                  |
| Rabbitfish (H. Feda)     | 105         | 263        | 0.00                  |
| Rabbitfish (Menahac)     | 421         | 962        | 0.00                  |
| Rudderfish (guilli)      | 142         | 493        | 3.46                  |
| Emperor (mafute)         | 6,717       | 18,016     | 2.68                  |
| Squinfish                | 733         | 2,353      | 3.21                  |
| Parrotfish               | 3,263       | 11,042     | 3.38                  |
| Snapper                  | 546         | 1,494      | 2.73                  |
| Surgeonfish              | 1,293       | 4,196      | 3.24                  |
| Surgeon/Hagnon           | 1,405       | 4,538      | 3.23                  |
| Unicornfish              | 1,992       | 6,385      | 3.20                  |
| Goatfish                 | 1,018       | 2,849      | 2.80                  |
| Trollfish                | 2,146       | 4,042      | 1.88                  |
| Banacuda                 | 37          | 69         | 0.00                  |
| Dolphin (mahinahi)       | 10,305      | 23,104     | 2.24                  |
| Mahi                     | 2,833       | 4,751      | 1.68                  |
| Sailfish                 | 40          | 80         | 2.00                  |
| Rainbow runner           | 1,044       | 2,318      | 2.22                  |
| Wahoo                    | 6,395       | 15,772     | 2.47                  |
| Tuna                     | 4,953       | 8,671      | 1.75                  |
| Skipjack tuna            | 85,087      | 159,584    | 1.88                  |
| Dogtooth tuna            | 9,053       | 20,969     | 2.32                  |
| Yellowfin tuna           | 19,359      | 40,507     | 2.09                  |
| Invertebrates            | 3           | 11         | 3.50                  |
| Lobster                  | 2,494       | 13,760     | 5.52                  |
| Octopus                  | 610         | 689        | 1.13                  |

Source: Fish and Wildlife Division, Department of Natural Resources

**Table 12.3 Commercial Fish Landing: 2000**

| Common Species | Average Price/lb (\$) | Weight (lbs) | Value (Dollars) |
|----------------|-----------------------|--------------|-----------------|
| Total          | 2.29                  | 334,816      | 767,590         |
| Troll fish     | 1.53                  | 3,960        | 6,069           |
| Atulai         | 2.78                  | 19,074       | 53,014          |
| Banacuda       | 1.91                  | 196          | 373             |
| Other tuna     | 1.80                  | 1,100        | 1,977           |
| Dogtooth tuna  | 1.89                  | 1,854        | 3,511           |
| Jacks          | 2.63                  | 1,578        | 4,148           |
| Mahimahi       | 2.18                  | 5,665        | 12,370          |
| Mahi           | 1.62                  | 2,886        | 4,670           |
| Rainbow runner | 2.24                  | 1,111        | 2,492           |
| Skipjack       | 1.84                  | 111,281      | 205,222         |
| Wahoo          | 2.34                  | 3,223        | 7,542           |
| Yellowfin tuna | 2.01                  | 13,924       | 27,966          |
| Reef fish      | 2.32                  | 98,546       | 228,570         |
| Goatfish       | 2.75                  | 1,232        | 3,382           |
| Rabbitfish     | 3.30                  | 9,869        | 32,602          |
| Mullet         | 2.62                  | 89           | 234             |
| Panotfish      | 2.99                  | 7,071        | 21,136          |
| Rudderfish     | 2.99                  | 682          | 2,040           |
| Snapper        | 2.31                  | 152          | 351             |
| Squidfish      | 2.79                  | 273          | 762             |
| Surgeonfish    | 2.95                  | 1,911        | 5,628           |
| Unicorn        | 2.71                  | 5,172        | 14,012          |
| Wrasse         | 3.00                  | 586          | 1,758           |
| Surgeon/Hagnon | 2.95                  | 3,691        | 10,903          |
| Bottom fish    | 2.62                  | 11,099       | 29,095          |
| Gindai         | 2.66                  | 172          | 457             |
| Grouper        | 2.31                  | 2,895        | 6,690           |
| Silvermouth    | 3.01                  | 2,091        | 6,305           |
| Mafute         | 2.81                  | 8,226        | 23,141          |
| Onaga          | 3.40                  | 8,390        | 28,538          |
| Opaapaka       | 2.87                  | 1,280        | 3,672           |
| Kawakawa       | 1.58                  | 2,539        | 4,007           |
| Lobster        | 5.62                  | 2,402        | 13,509          |
| Octopus        | 2.42                  | 598          | 1,445           |

Source: Fish and Wildlife Division, Department of Natural Resources

**Table 12.4 Commercial Fish Purchases: 1999**

| Species        | Average Price/lb | Weight (pounds) | Value (Dollars) |
|----------------|------------------|-----------------|-----------------|
| Total          | 2.35             | 380,134         | 893,940         |
| Troll fish     | 1.88             | 2,146           | 4,042           |
| Barracuda      | 1.86             | 37              | 69              |
| O thertuna     | 1.75             | 4,953           | 8,671           |
| Dogtooth tuna  | 2.32             | 9,053           | 20,969          |
| Jacks          | 3.35             | 1,616           | 5,409           |
| M ahimahi      | 2.24             | 10,305          | 23,104          |
| M arlin        | 1.68             | 2,833           | 4,751           |
| Rainbow runner | 2.22             | 1,044           | 2,318           |
| Sailfish       | 2.00             | 40              | 80              |
| Skipjack       | 1.88             | 85,087          | 159,584         |
| W aho          | 2.47             | 6,395           | 15,772          |
| Yellowfin tuna | 2.09             | 19,359          | 40,507          |
| Assorted       | 0.00             | 0               | 0               |
| Reef fish      | 2.43             | 127,474         | 309,863         |
| Atulai         | 2.90             | 8,168           | 23,653          |
| G oatfish      | 2.80             | 1,018           | 2,849           |
| H iting        | 3.29             | 5,154           | 16,965          |
| M ullet        | 2.50             | 25              | 63              |
| P arrotfish    | 3.38             | 3,263           | 11,042          |
| Rudderfish     | 3.46             | 142             | 493             |
| Squinfish      | 3.21             | 733             | 2,353           |
| Surgeonfish    | 3.24             | 1,293           | 4,196           |
| Unicom         | 3.20             | 1,992           | 6,385           |
| W rasse        | 2.86             | 111             | 318             |
| Assorted       | 3.23             | 1,405           | 4,538           |
| Bottom fish    | 2.73             | 5,603           | 15,299          |
| G indai        | 3.48             | 2,949           | 10,259          |
| G rouper       | 3.29             | 3,121           | 10,259          |
| Silvermouth    | 4.26             | 7,989           | 34,042          |
| M afute        | 2.68             | 6,717           | 18,016          |
| O naga         | 4.33             | 13,881          | 60,137          |
| O pakapaka     | 3.38             | 1,418           | 4,796           |
| Snapper        | 3.50             | 657             | 2,298           |
| Assorted       | 2.33             | 526             | 1,225           |
| Invertebrates  | 3.50             | 3               | 11              |
| Lobster        | 5.52             | 2,494           | 13,760          |
| O ctopus       | 2.59             | 266             | 689             |

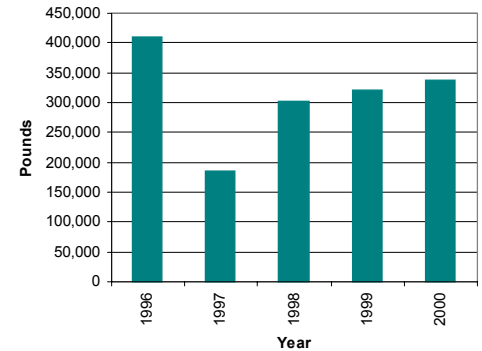
Source: Fish and Wildlife Division, Department of Natural Resources

**Table 12.5 Pounds of Fish Products Imported by Month: 1996 to 2000**

| Month     | Year    |         |         |         |         |
|-----------|---------|---------|---------|---------|---------|
|           | 2000    | 1999    | 1998    | 1997    | 1996    |
| Total     | 337,434 | 320,094 | 301,410 | 184,363 | 410,690 |
| January   | 28,533  | 33,947  | 17,680  | 48,691  | 44,451  |
| February  | 14,681  | 36,849  | 22,413  | 19,174  | 37,791  |
| March     | 32,706  | 31,664  | 17,938  | 17,914  | 43,669  |
| April     | 31,151  | 24,193  | 20,109  | 9,386   | 34,385  |
| May       | 18,299  | 32,858  | 15,035  | 12,988  | 30,432  |
| June      | 16,121  | 29,817  | 16,842  | 4,472   | 36,944  |
| July      | 25,895  | 35,097  | 32,614  | 5,477   | 35,972  |
| August    | 30,803  | 22,414  | 28,351  | 12,439  | 30,891  |
| September | 70,530  | 22,774  | 28,305  | 12,090  | 33,270  |
| October   | 21,877  | 12,344  | 21,599  | 10,179  | 28,170  |
| November  | 19,286  | 14,773  | 38,380  | 16,313  | 22,171  |
| December  | 27,552  | 23,364  | 42,143  | 15,239  | 32,545  |

Source: Fish and Wildlife Division, Department of Natural Resources

**Figure 12.1 Amount of Fish Imported into CNMI, 1996 to 2000**

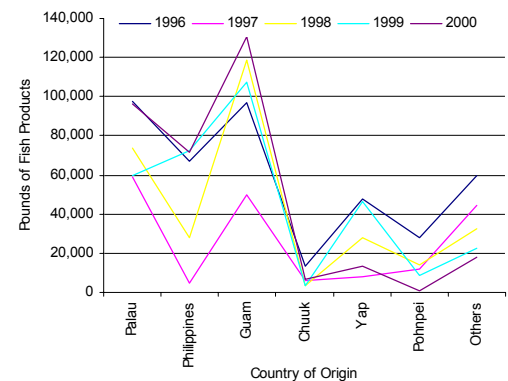


**Table 12.6 Pounds of Fish Products Imported by Country of Origin: 1996 to 2000**

| Country of Origin | Year    |         |         |         |         |
|-------------------|---------|---------|---------|---------|---------|
|                   | 2000    | 1999    | 1998    | 1997    | 1996    |
| Total             | 337,434 | 320,094 | 301,410 | 184,363 | 410,690 |
| Palau             | 95,879  | 59,475  | 73,770  | 59,171  | 97,664  |
| Philippines       | 71,943  | 72,345  | 27,726  | 4,707   | 66,866  |
| Guam              | 130,757 | 107,446 | 118,659 | 49,670  | 97,203  |
| Chuuk             | 6,555   | 3,286   | 3,200   | 6,251   | 13,287  |
| Yap               | 13,443  | 46,142  | 27,715  | 8,082   | 48,064  |
| Pohnpei           | 829     | 8,579   | 13,787  | 12,154  | 27,694  |
| Japan             | 489     | 737     | 1,510   | 0       | 529     |
| Hong Kong         | 0       | 673     | 1,088   | 116     | 986     |
| U.S.A.            | 10,311  | 3,591   | 4,300   | 0       | 0       |
| Hawaii            | 5,826   | 15,916  | 21,994  | 7,677   | 41,597  |
| Kosrae            | 407     | 1,028   | 285     | 83      | 3,643   |
| Marshalls         | 232     | 206     | 3,912   | 35,159  | 12,562  |
| Others            | 763     | 669     | 3,464   | 1,293   | 596     |

Source: Fish and Wildlife Division, Department of Natural Resources

**Figure 12.2 Amount of Fish Imported by Country of Origin: 1996 to 2000**



**Table 12.7 Farms, Land in Farms, and Land Use: 1990 and 1980**

| Land Use                              | 1990            |                   | 1980            |                   |
|---------------------------------------|-----------------|-------------------|-----------------|-------------------|
|                                       | Number of Farms | Farm size (acres) | Number of Farms | Farm size (acres) |
| Farms                                 | 346             | ...               | 299             | ...               |
| Land in farms'                        | ...             | 16,442            | ...             | 12,187            |
| Average size of farm                  | ...             | 48                | ...             | 41                |
| Approximate land area                 | ...             | 117,760           | ...             | 117,760           |
| Proportion in farms (percent)         | ...             | 14.0              | ...             | 10.3              |
| Cropland                              | 281             | 5,235             | 289             | 2,643             |
| Used for crops                        | 270             | 769               | 280             | 950               |
| Used for other purposes               | 80              | 4,466             | 146             | 1,693             |
| Pastureland, except cropland pastured | 124             | 5,534             | 129             | 8,706             |
| Other land                            | 218             | 5,673             | 132             | 839               |

Source: 1990 Census of Agriculture AC 87-A-56 Table 1

Note: Details may not add to total due to rounding

**Table 12.8 Number of Livestock Farms, Livestock Products, and Sales, CNMI: 1989**

| Livestock                           | Sales        |                  |              |                  | Amount of sales (\$) |
|-------------------------------------|--------------|------------------|--------------|------------------|----------------------|
|                                     | No. of farms | No. of livestock | No. of farms | No. of livestock |                      |
| Cattle and calves of all ages       | 36           | 4,513            | 14           | 702              | 329,598              |
| Milk cows                           | 6            | 80               | ...          | 22               | 13,200               |
| Other cattle and calves             | 33           | 4,433            | ...          | 680              | 316,398              |
| Hog and pigs of all ages            | 66           | 1,260            | 28           | 360              | 33,565               |
| Goats and kids of all ages          | 21           | 482              | 3            | 8                | D                    |
| Horses, mules and colts of all ages | 2            | D                | 1            | D                | D                    |
| Other livestock                     | 4            | 32               | 1            | D                | D                    |
| Livestock sales                     | ...          | ...              | 37           | ...              | 367,383              |

Source: 1990 Census of Agriculture, AC 87-A-56, Table 8

Note: "D" means data withheld to avoid disclosing figures for individual establishments.

Data are included in higher level totals.

**Table 12.9 Number of Poultry Farms, Poultry Products and Sales: 1989**

| Poultry & Products    | Sale         |                |              |                |                      |
|-----------------------|--------------|----------------|--------------|----------------|----------------------|
|                       | No. of farms | No. of poultry | No. of farms | No. of poultry | Amount of sales (\$) |
| Chickens              | 63           | 9,580          | 6            | 1,305          | 6,690                |
| Other poultry         | 18           | 562            | 1            | D              | D                    |
| Chicken egg sales     | ...          | ...            | 2            | ...            | D                    |
| Poultry and egg sales | ...          | ...            | 8            | ...            | 12,115               |

Source: 1990 Census of Agriculture, AC 87-A-56, Table 8

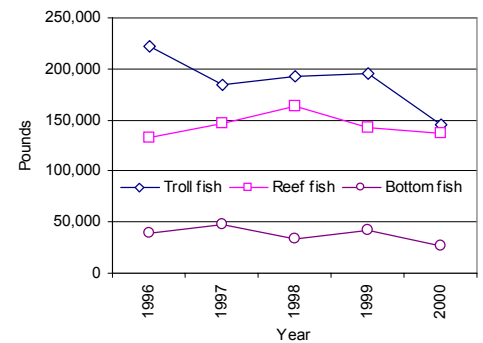
Note: "D" means data withheld to avoid disclosing figures for individual establishments. Data are included in higher level totals.

**Table 12.10 Commercial Fish Landings by Pound, CNMI 1996 to 2000**

| TYPE          | Year    |         |         |         |         |
|---------------|---------|---------|---------|---------|---------|
|               | 2000    | 1999    | 1998    | 1997    | 1996    |
| Total         | 310,744 | 381,336 | 389,168 | 380,135 | 397,069 |
| Troll fish    | 145,004 | 194,884 | 192,568 | 183,921 | 222,423 |
| Reef fish     | 137,411 | 142,277 | 163,604 | 147,127 | 132,643 |
| Bottom fish   | 25,927  | 41,678  | 32,850  | 48,093  | 38,677  |
| Invertebrates | 2,402   | 2,497   | 146     | 993     | 3,327   |

Source: Division of Fish & Wildlife

**Figure 12.3 Commercial Fish Landed in the CNMI by Type: 1996 to 2000**



**Table 12.11 Fish Landings by Value and Average Price Per Pound: 1996 to 2000**

| Type               | Year    |         |         |         |         |
|--------------------|---------|---------|---------|---------|---------|
|                    | 2000    | 1999    | 1998    | 1997    | 1996    |
| Troll fish         | 271,819 | 420,856 | 405,772 | 407,182 | 424,548 |
| Reef fish          | 344,285 | 379,737 | 428,732 | 323,265 | 281,442 |
| Bottom fish        | 74,757  | 173,669 | 147,506 | 160,031 | 125,439 |
| Invertebrates      | 13,509  | 17,220  | 4,615   | 3,462   | 15,257  |
| Troll fish (\$)    | 1.53    | 1.88    | 2.06    | 2.21    | 1.91    |
| Reef fish (\$)     | 2.32    | 2.43    | 2.44    | 2.20    | 2.12    |
| Bottom fish (\$)   | 2.62    | 2.73    | 2.76    | 3.33    | 3.24    |
| Invertebrates (\$) | 5.62    | 3.5     | 5.26    | 3.49    | 4.59    |

Source: Division of Fish & Wildlife



Chapter 13  
REVENUES AND  
EXPENDITURES

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## Summary of Revenues

The CNMI economy expanded in 1994 during the early 1990's with the growth of garment manufacturing and tourism. In 1997, however an economic decline in gross revenues levels showed in most industries between 1997 and 1998, except for manufacturing and transportation industries which showed increases. Generally, industries continued to show declines in gross revenues in 1999, except for manufacturing, banking, hotel/motel, and gas station services which showed small increases. Overall total business gross revenues declined in 1999 from 1998 and was below the 1997 level.

The actual revenues collected by the CNMI government increased from 1993 through 1997, but declined in 1998 and 1999; reported total wage and salary in the CNMI increased in 1995 to 1997, but declined in 1998; total general fund revenues increased in 1995 to 1997, but declined in 1998 and 1999; similarly, CNMI government total operating expenditures increased in 1995 to 1997, but declined in 1998 and 1999.

The tables in this chapter show annual revenues and wage and salary figures in the CNMI in recent years.

**Table 13.1 CNMI Actual Revenue Collected: 1996 to 2000**  
(in \$US thousand dollars)

| Resources                | Fiscal Year |         |         |         |         |
|--------------------------|-------------|---------|---------|---------|---------|
|                          | 2000        | 1999    | 1998    | 1997    | 1996    |
| Internal Resources       | 226,147     | 210,000 | 229,677 | 250,853 | 222,355 |
| NM TIT income tax        | 52,505      | 15,177  | 22,539  | 25,795  | 26,427  |
| Wage & salary tax        | ***         | 29,278  | 30,361  | 29,438  | 29,861  |
| Gross receipt tax        | 57,336      | 58,254  | 68,615  | 71,041  | 67,187  |
| Excise tax               | 21,391      | 21,425  | 24,308  | 29,048  | 25,007  |
| User fee tax             | 41,146      | 41,146  | 36,846  | 27,736  | 17,981  |
| Beverage container tax   | 1,461       | 1,415   | 1,568   | 1,585   | 1,646   |
| Liquid fuel tax          | 4,182       | 1,448   | 2,486   | 4,925   | 7,523   |
| Hotel room occupancy tax | 6,116       | 6,799   | 8,140   | 11,397  | 9,932   |
| Business license fees    | 777         | 669     | 819     | 784     | 748     |
| Hospital fees            | 7,023       | 7,613   | 10,012  | 12,343  | 7,601   |
| Immigration fees         | **          | 2,820   | 2,870   | 2,449   | 1,795   |
| Other internal resources | 34,210      | 23,955  | 21,114  | 34,312  | 26,647  |

Source: Department of Finance

Note: FY1999 figures are estimated resources (as of 4/29/99)

Note: (\*\*\*) Wage & Salary tax are combined with NM TIT income tax FY2000.

Note: (\*\*) Included with the other resource fees.

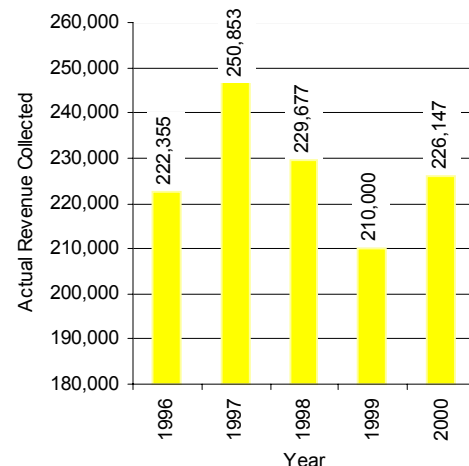
**Table 13.2 Reported Business Gross Revenue by Business Activity:**  
Calendar Years 1996 to 2000 (in \$US million dollars)

| Business Activity       | Calendar Year |         |         |         |         |
|-------------------------|---------------|---------|---------|---------|---------|
|                         | 2000          | 1999    | 1998    | 1997    | 1996    |
| Total                   | 2,255.6       | 2,213.1 | 3,033.7 | 2,610.3 | 2,224.4 |
| Agriculture/fishing     | 1.2           | 2.6     | 2.1     | 4.4     | 4.4     |
| Air transportation      | 0.0           | 0.0     | 804     | 18.8    | 7.5     |
| Banking                 | 51.6          | 52.7    | 49.9    | 51.7    | 49.6    |
| Construction            | 53.0          | 53.7    | 71.9    | 76.9    | 84.6    |
| Manufacturing           | 783.3         | 802.8   | 792.8   | 687.8   | 553.6   |
| Gament                  | 406.0         | 434.3   | 656.4   | 524.4   | 484.3   |
| Other Manufacturing     | 377.3         | 368.5   | 136.4   | 163.4   | 69.4    |
| Hotels/motels           | 85.0          | 109.4   | 93.8    | 167.6   | 170.8   |
| Restaurants/bars        | 48.7          | 50.3    | 47.6    | 65.4    | 60.2    |
| Retail trade            | 400.2         | 401.5   | 430.8   | 635.4   | 458.5   |
| Shipping                | 8.4           | 7.5     | 5.0     | 5.1     | 4.2     |
| Wholesale trade         | 155.6         | 128.7   | 129.6   | 154.6   | 153.8   |
| Professional service    | 131.7         | 118.2   | 63.0    | 136.5   | 153.9   |
| Petroleum               | 13.5          | 13.6    | 0.0     | 54.4    | 114.9   |
| Land lease              | 8.3           | 6.7     | 7.7     | 12.2    | 10.3    |
| Transportation services | 26.3          | 24.0    | 27.4    | 18.3    | 14.7    |
| Gas service stations    | 3.2           | 32.2    | 2.2     | 4.8     | 5.5     |
| Freight forwarders      | ...           | ...     | ...     | ...     | ...     |
| Others                  | 485.6         | 409.2   | 505.9   | 516.4   | 377.9   |

Source: Department of Finance

Note: "... may be included in Others category. Revised 1995 and 1996 figures.

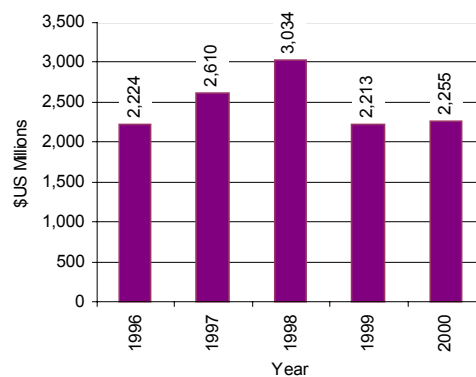
**Figure 13.1 CNMI Actual Revenue Collected: 1996 to 2000**



**CNMI Revenue Collected, 1996 to 2000**

Revenues collected from internal resources have declined and rebounded during the 1996-2000 period. The most precipitous drop in revenue occurred between 1997 and 1998, at the height of Asia's economic crisis.

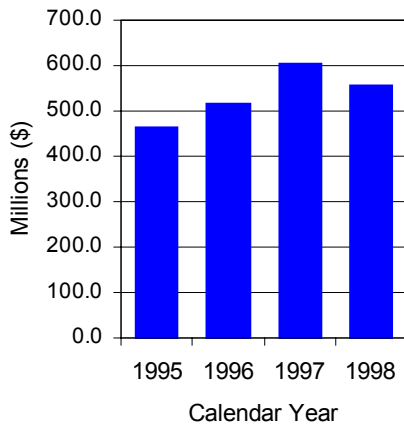
**Figure 13.2 CNMI Reported Business Gross Revenue, 1996 to 2000**



**Business Growth Revenue**

Manufacturing accounted for 35% of all business gross revenue in 2000. Retail trade accounted for approximately 18% of such revenue, while "other" business activity contributed to 22% of the business growth revenue that year.

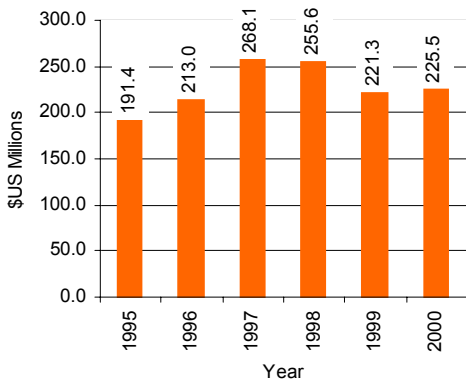
**Figure 13.3** CNMI Reported Total Wage and Salary, 1995 to 1998



**CNMI Operating Expenditures**

Since 1996, CNMI operating expenditures have risen and fallen with the economy. The CNMI government spent \$225.5 million total in operations for the year 2000. As in past years, approximately 19% of the total operating expenditure was earmarked for education in 2000. An additional 19% was devoted to public health, 10% to public safety, 16% to general government operations, and 7% to community and social services as well as elected officials. The remaining government functions accounted for 41% of all operating expenditures in 2000.

**Figure 13.4** CNMI Government Total Operating Expenditure, 1995 to 2000



**Table 13.3** Reported Wage and Salary by Selected Activity: Calendar Year 1995 to 1998 (in \$US millions of dollars)

| Wages and Salary      | Calendar Year |       |       |       |
|-----------------------|---------------|-------|-------|-------|
|                       | 1998          | 1997  | 1996  | 1995  |
| Total                 | 556.6         | 605.5 | 515.8 | 464.8 |
| Government            | 179.1         | 184.1 | 165.8 | 154.3 |
| Retail trade          | 43.3          | 52.5  | 46.9  | 46.5  |
| Construction          | 27.6          | 30.4  | 29.2  | 29.9  |
| Hotels                | 27            | 35.7  | 31.8  | 19.8  |
| Banking and finance   | 7.6           | 5.9   | 4.0   | 4.4   |
| Wholesalers           | 6.7           | 5.6   | 4.9   | 3.9   |
| Gamemnt manufacturing | 155.6         | 140.3 | 92.1  | 73.0  |
| Petroleum             | 0.3           | 0.6   | 0.5   | 0.2   |
| All others            | 109.4         | 150.4 | 140.5 | 132.7 |

Source: Department of Finance

\*Note: Government includes autonomous agencies, federal agencies, and retirement fund. 1999 and 2000 statistics unavailable until conversion to new tax system is completed.

**Table 13.4** CNMI General Fund Operating Expenditures by Function: 1996 to 2000 (in \$US millions of dollars)

| Function                    | Fiscal Year |       |       |       |       |
|-----------------------------|-------------|-------|-------|-------|-------|
|                             | 2000        | 1999  | 1998  | 1997  | 1996  |
| Operating Expenditures      | 225.5       | 221.3 | 255.6 | 268.1 | 213.0 |
| Health                      | 43.6        | 41.9  | 45.7  | 46.5  | 40.1  |
| Education                   | 49.6        | 51.4  | 55.1  | 55.8  | 42.4  |
| Public Safety               | 21.6        | 20.1  | 24.5  | 24.7  | 20.7  |
| Public Works                | 9.9         | 8.9   | 11.3  | 13.4  | 10.4  |
| Community & Social Services | 16.2        | 15.1  | 17.9  | 19.7  | 11.0  |
| Lands & Natural Resources   | 11.4        | 10.7  | 15.3  | 11.1  | 10.0  |
| Economic Development        | 8.2         | 8.4   | 11.7  | 17.9  | 7.6   |
| Judiciary                   | 4.7         | 4.6   | 5.5   | 4.8   | 4.2   |
| Legislature                 | 7.5         | 7.1   | 6.7   | 4.8   | 4.9   |
| Other elected officials     | 16.8        | 17.1  | 17.4  | 26.4  | 19.6  |
| General Government          | 36.0        | 36.0  | 44.5  | 43.0  | 41.9  |

Source: Department of Finance

**Table 13.5 Characteristics of General Fund Revenues: FY1996 to FY2000**  
(in \$ US thousands)

| Characteristics          | Fiscal Year |         |         |         |         |
|--------------------------|-------------|---------|---------|---------|---------|
|                          | 2000        | 1999    | 1998    | 1997    | 1996    |
| Revenues:                | 222,005     | 226,911 | 228,620 | 242,562 | 216,765 |
| Taxes                    | 177,201     | 187,884 | 199,984 | 200,879 | 186,444 |
| Business gross revenue   | 57,336      | 54,157  | 61,443  | 74,568  | 67,062  |
| Wages and salary/income  | 52,505      | 60,036  | 62,589  | 46,564  | 53,883  |
| Excise                   | 21,391      | 19,883  | 24,308  | 56,828  | 25,007  |
| Fuel                     | 4,182       | 4,183   | 2,486   | 4,925   | 7,523   |
| Beverage container       | 1,461       | 1,527   | 1,568   | 3,998   | 1,646   |
| Hotel room occupancy     | 6,116       | 5,958   | 7,744   | 10,801  | 9,941   |
| Other taxes              | 34,210      | 42,140  | 39,846  | 3,196   | 21,382  |
| Licenses and fees        | 7,612       | 5,411   | 5,699   | 9,182   | 7,264   |
| Amusement machines       | 6,510       | 5,719   | 4,329   | 3,949   | 2,971   |
| Business licenses        | 777         | 669     | 819     | 683     | 748     |
| Immigration Fees         | 3,771       | 2,820   | 2,870   | 2,065   | 1,795   |
| Other                    | 11,828      | 9,910   | 6,261   | 2,485   | 1,750   |
| Charges for services     | 2,982       | 3,847   | 11,337  | 20,864  | 9,505   |
| Hospital Services        | 7,023       | 8,364   | 8,371   | 11,806  | 7,467   |
| Other services           | 5,722       | 19,859  | 5,339   | 9,058   | 2,038   |
| Delinquent Tax Penalties | 0           | 0       | 0       | 0       | 1,977   |
| Other                    | 34,210      | 29,769  | 11,600  | 11,637  | 11,575  |

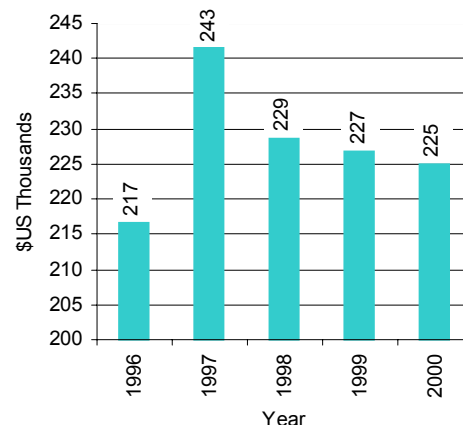
Source: Department of Finance

**Table 13.6 CNMI Statement of Revenue Type by Source: FY 1996 to FY 2000**  
(in \$ US thousands dollars)

| Resource                | Fiscal Year |         |         |         |         |
|-------------------------|-------------|---------|---------|---------|---------|
|                         | 2000        | 1999    | 1998    | 1997    | 1996    |
| Total Revenues          | 297,215     | 290,972 | 277,293 | 288,642 | 261,015 |
| Taxes                   | 247,715     | 230,827 | 228,764 | 200,879 | 190,941 |
| Business gross revenue  | 57,336      | 54,157  | 61,443  | 74,568  | 67,187  |
| Wages and salary/income | 52,505      | 60,036  | 62,589  | 46,564  | 56,288  |
| Excise                  | 21,391      | 19,883  | 24,308  | 56,828  | 42,988  |
| Fuel                    | 4,182       | 4,183   | 2,486   | 4,925   | 7,523   |
| Beverage container      | 1,461       | 1,527   | 1,568   | 3,998   | 4,130   |
| Hotel room occupancy    | 6,116       | 5,958   | 7,744   | 10,801  | 9,932   |
| Other taxes             | 2,492       | 2,829   | 3,000   | 3,196   | 2,892   |
| Federal contributions   | 52,948      | 42,753  | 34,385  | 26,597  | 28,478  |
| Other contributions     | 313         | 595     | 1,643   | 4,332   | 1,941   |
| Licenses and fees       | 7,612       | 5,411   | 5,699   | 9,263   | 7,720   |
| Charges for services    | 2,982       | 3,847   | 11,337  | 20,864  | 12,612  |
| Land leases             | 4,167       | 6,413   | 5,658   | 6,293   | 6,541   |
| Other                   | 34,210      | 23,235  | 6,904   | 20,413  | 12,783  |

Source: Department of Finance annual audit

**Figure 13.5 CNMI Total General Fund Revenue, 1996 to 2000**



**Source Of Revenue Over Time**

The proportion of revenue generated through tax collection has increased from 73% to 83% between 1996 and 2000. Specifically, business gross revenue taxes continue to account for approximately 19% of all CNMI revenue and federal contributions accounted for 18% in 2000.

Chapter 14  
PRICE INDEX

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## Summary of Price Index

The United States Bureau of Labor Statistics (BLS) uses a Consumer Price Index, or CPI, to measure the average change over time in consumer goods and services. The CPI assesses inflation and provides valuable economic insights into the nation's governmental policies, business practices and labor activities. This volume of the CPI of the Northern Mariana Islands (CNMI) presents data from first quarter, 1999 through the fourth quarter, 2000. The present series of the CPI of the CNMI uses the third quarter, 1977 as the base period. The base was constructed from the 1977 Consumer Expenditure Survey which identified about 100 essential goods and services commonly used in everyday life and grouped into 5 major categories, including: food, housing, apparel and upkeep, transportation, and health and recreation.

In order to calculate a CPI, economic assistants call and visit retailers, service providers and other businesses to collect price data. Over all, the prices of constant and available goods are recorded and incorporated into the index. Brief instructions on how to interpret the CPI are supplied in this chapter.

The CNMI Consumer Price Index increased nearly every year since 1991, with the exception of 1997. The highest annual CPI increase was in 1992 when the index jumped by almost 14 points. The CPI increased most recently by 1.8 and 5.1 index points between the years 1999 and 2000. The CPI declined in 1997 was due primarily to a decline in the prices of food, health and recreation. Data suggest that the slow increase in the CPI for 1998 was due to price declines in the food and housing categories. Similarly, the slow increase in 1999 was likely attributed to price decreases in the areas of health and recreation.

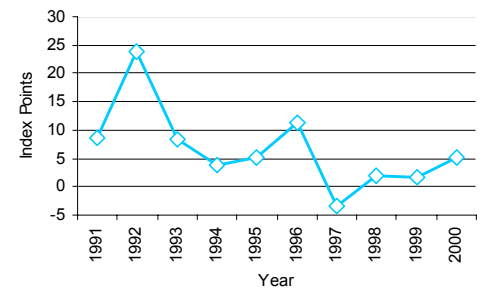
Readers are encourage to contact the Central Statistics Division's web site for more information on the CNMI's Consumer Price Index. The web site address is as follows: [www.commerce.gov.mp/csdhome.htm](http://www.commerce.gov.mp/csdhome.htm).

**Table 14.1 Consumer Price Index: 1991 to 2000**  
Weighted (1977.3 = 100)

| Year and Quarter | Total | Food  | Housing | Apparel and Upkeeping | Transportation | Health and Recreation |
|------------------|-------|-------|---------|-----------------------|----------------|-----------------------|
| 1977.3           | 100.0 | 100.0 | 100.0   | 100.0                 | 100.0          | 100.0                 |
| 1991.1           | 214.4 | 187.5 | 195.0   | 173.6                 | 242.6          | 347.8                 |
| 1991.2           | 215.5 | 184.9 | 190.2   | 199.5                 | 239.7          | 355.9                 |
| 1991.3           | 214.4 | 189.1 | 184.3   | 203.8                 | 236.6          | 340.5                 |
| 1991.4           | 215.4 | 190.6 | 186.6   | 203.8                 | 236.3          | 339.3                 |
| 1992.1           | 225.4 | 187.4 | 186.5   | 204.4                 | 244.5          | 417.5                 |
| 1992.2           | 227.4 | 187.0 | 191.7   | 209.2                 | 248.0          | 421.0                 |
| 1992.3           | 239.5 | 201.6 | 201.2   | 185.2                 | 252.1          | 456.5                 |
| 1992.4           | 239.3 | 198.4 | 200.7   | 189.5                 | 251.3          | 464.4                 |
| 1993.1           | 240.1 | 199.1 | 200.5   | 191.5                 | 258.6          | 462.7                 |
| 1993.2           | 240.6 | 199.3 | 200.2   | 192.2                 | 261.7          | 463.9                 |
| 1993.3           | 244.3 | 203.9 | 204.3   | 192.2                 | 263.1          | 467.4                 |
| 1993.4           | 247.7 | 203.8 | 209.2   | 194.3                 | 263.8          | 483.2                 |
| 1994.1           | 249.2 | 207.1 | 208.4   | 195.2                 | 263.8          | 482.8                 |
| 1994.2           | 249.8 | 205.7 | 206.6   | 195.3                 | 262.3          | 495.7                 |
| 1994.3           | 249.6 | 202.5 | 206.3   | 196.1                 | 274.0          | 498.7                 |
| 1994.4           | 251.4 | 201.8 | 210.6   | 198.2                 | 284.1          | 500.3                 |
| 1995.1           | 252.5 | 203.2 | 212.5   | 199.3                 | 286.7          | 498.2                 |
| 1995.2           | 254.1 | 205.3 | 214.2   | 199.4                 | 287.2          | 499.7                 |
| 1995.3           | 254.8 | 204.9 | 213.7   | 203.5                 | 299.2          | 497.3                 |
| 1995.4           | 256.5 | 208.5 | 213.5   | 203.5                 | 298.0          | 497.3                 |
| 1996.1           | 259.4 | 210.8 | 213.5   | 208.5                 | 309.6          | 500.4                 |
| 1996.2           | 258.1 | 206.8 | 214.7   | 211.0                 | 311.3          | 500.3                 |
| 1996.3           | 262.7 | 209.1 | 214.0   | 211.7                 | 313.7          | 524.5                 |
| 1996.4           | 267.7 | 214.7 | 219.4   | 211.7                 | 316.4          | 532.1                 |
| 1997.1           | 264.7 | 210.2 | 225.4   | 211.4                 | 318.1          | 517.1                 |
| 1997.2           | 265.4 | 211.4 | 225.1   | 212.6                 | 318.1          | 517.3                 |
| 1997.3           | 265.4 | 209.1 | 227.3   | 212.2                 | 318.5          | 522.3                 |
| 1997.4           | 264.3 | 207.8 | 223.5   | 212.8                 | 320.4          | 522.6                 |
| 1998.1           | 264.2 | 210.0 | 219.9   | 214.2                 | 317.4          | 520.2                 |
| 1998.2           | 262.4 | 208.7 | 213.3   | 214.2                 | 318.6          | 520.2                 |
| 1998.3           | 263.9 | 209.9 | 213.0   | 212.8                 | 332.8          | 519.7                 |
| 1998.4           | 266.2 | 205.7 | 215.2   | 212.8                 | 325.3          | 552.5                 |
| 1999.1           | 266.4 | 206.3 | 213.3   | 216.9                 | 324.1          | 552.6                 |
| 1999.2           | 268.3 | 206.5 | 224.6   | 216.9                 | 320.8          | 551.8                 |
| 1999.3           | 268.5 | 205.8 | 223.8   | 216.9                 | 331.9          | 550.2                 |
| 1999.4           | 268.0 | 205.7 | 217.5   | 222.7                 | 333.2          | 551.0                 |
| 2000.1           | 267.5 | 206.1 | 218.2   | 221.1                 | 326.7          | 550.4                 |
| 2000.2           | 274.3 | 203.7 | 219.0   | 218.8                 | 334.0          | 603.9                 |
| 2000.3           | 278.0 | 207.6 | 221.6   | 219.8                 | 341.6          | 607.8                 |
| 2000.4           | 273.1 | 201.7 | 213.1   | 220.1                 | 341.7          | 604.9                 |

Source : Central Statistics Division, Department of Commerce

**Figure 14.1 Annual Movement of the CNMI's Consumer Price Index, 1991 to 2000**



**Annual Movement in the CNMI's Consumer Price Index**

The CNMI Consumer Price Index (CPI) increased steadily each year since 1991, except in 1997 when it declined by 3.4 points. The highest CPI increase occurred in 1992 when figures jumped 14 index points from 225 to 239 by the year's end. The CPI increased by 1.8 and 5.1 index points between 1999 and 2000.

**Interpreting the CPI**

The Price of the CPI "basket" of goods and services in the base period is assigned a value of 100. Prices in all other time periods are represented as percentages of the base period price. Therefore, if the index price increased 20 percent since the base year, the index would read 120.0; accordingly 5 percent since the base year, the index reads 105.0. The base year for CNMI's Consumer Price Index is 1977.



**Table 14.2 Percent Change 1st to 4th Q uarter, 2000****1st Q uarter**

| COMMODITY GROUP     | Year/Quarter      |                   |                   | Percent (%) Change to 1st Q tr. 2000 |                    |
|---------------------|-------------------|-------------------|-------------------|--------------------------------------|--------------------|
|                     | 1st Q tr. CY 1999 | 4th Q tr. CY 1999 | 1st Q tr. CY 2000 | From One year ago                    | From Prev. quarter |
| ALL ITEMS           | 266.4             | 268.0             | 267.5             | 0.4                                  | -0.2               |
| Food                | 206.3             | 205.7             | 206.1             | -0.1                                 | 0.2                |
| Housing             | 213.3             | 217.5             | 218.2             | 2.3                                  | 0.3                |
| Apparel & Upkeep    | 216.9             | 222.7             | 221.1             | 1.9                                  | -0.7               |
| Transportation      | 324.1             | 333.2             | 326.7             | 0.8                                  | -2.0               |
| Health & Recreation | 552.5             | 551.0             | 550.4             | -0.4                                 | -0.1               |

Source: CNM IQ uarterly Consumer Price Survey, Central Statistics Division

**2nd Q uarter**

| COMMODITY GROUP     | Year/Quarter      |                   |                   | Percent (%) Change to 2nd Q tr. 2000 |                    |
|---------------------|-------------------|-------------------|-------------------|--------------------------------------|--------------------|
|                     | 2nd Q tr. CY 1999 | 1st Q tr. CY 2000 | 2nd Q tr. CY 2000 | From One year ago                    | From Prev. quarter |
| ALL ITEMS           | 268.3             | 267.5             | 274.3             | 2.2                                  | 2.5                |
| Food                | 206.5             | 206.1             | 203.7             | -1.4                                 | -1.2               |
| Housing             | 224.6             | 218.2             | 219.0             | -2.5                                 | 0.4                |
| Apparel & Upkeep    | 216.9             | 221.1             | 218.8             | 0.9                                  | -1.0               |
| Transportation      | 320.8             | 326.7             | 334.0             | 4.1                                  | 2.2                |
| Health & Recreation | 551.8             | 550.4             | 603.9             | 9.4                                  | 9.7                |

Source: CNM IQ uarterly Consumer Price Survey, Central Statistics Division

**3rd Q uarter**

| COMMODITY GROUP     | Year/Quarter      |                   |                   | Percent (%) Change to 3rd Q tr. 2000 |                    |
|---------------------|-------------------|-------------------|-------------------|--------------------------------------|--------------------|
|                     | 1st Q tr. CY 1999 | 2nd Q tr. CY 2000 | 3rd Q tr. CY 2000 | From One year ago                    | From Prev. quarter |
| ALL ITEMS           | 266.4             | 274.3             | 278.0             | 4.4                                  | 1.3                |
| Food                | 206.3             | 203.7             | 207.6             | 0.6                                  | 1.9                |
| Housing             | 213.3             | 219.0             | 221.6             | 3.9                                  | 1.2                |
| Apparel & Upkeep    | 216.9             | 218.8             | 219.8             | 1.3                                  | 0.5                |
| Transportation      | 324.1             | 334.0             | 341.6             | 5.4                                  | 2.3                |
| Health & Recreation | 552.5             | 603.9             | 607.8             | 10.0                                 | 0.6                |

Source: CNM IQ uarterly Consumer Price Survey, Central Statistics Division

**4th Q uarter**

| COMMODITY GROUP     | Year/Quarter   |                   |                   | Percent (%) Change to 4th Q tr. 2000 |                    |
|---------------------|----------------|-------------------|-------------------|--------------------------------------|--------------------|
|                     | 4th Q tr. 1999 | 3rd Q tr. CY 2000 | 4th Q tr. CY 2000 | From One year ago                    | From Prev. quarter |
| ALL ITEMS           | 268.0          | 278.0             | 273.1             | 1.9                                  | -1.8               |
| Food                | 205.7          | 207.6             | 201.7             | -1.9                                 | -2.8               |
| Housing             | 217.5          | 221.6             | 213.1             | -2.0                                 | -3.8               |
| Apparel & Upkeep    | 222.7          | 219.8             | 220.1             | -1.2                                 | 0.1                |
| Transportation      | 333.2          | 341.6             | 341.7             | 2.6                                  | 0.0                |
| Health & Recreation | 551.0          | 607.8             | 604.9             | 9.8                                  | -0.5               |

Source: CNM IQ uarterly Consumer Price Survey, Central Statistics Division

Chapter 15  
LAND USE

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## Summary of Land Use

Chapter 15 summarizes information on the CNMI's geographic size, use of public land, and the number of land permits issued over time.

Saipan is the region's largest island, measuring approximately 47 square miles. Land elevation is highest in Agrihan, where the mountain peak reaches 3,166 feet above seal level.

In general, most of the CNMI's land mass is allocated as public land. Only 27% of the total land area in 1995 was privately owned, although a majority (62%) of Saipan's land was private. Saipan, the CNMI's capital city and home to about 90% of the total population, is the most industrialized island in the chain.

According to data from the Division of Public Lands, approximately 58% of land in 2000 was set aside for public use. Nearly 13% of this land was set aside for conservation and wildlife areas, 10% for public facilities, 8% for homesteading, and 6% was allocated for golf course development and transportation, respectively. The remaining public land was designated for various other public purposes.

Over the past six years, the number of village homestead permits issued has decreased from 750 in 1994 to 40 in 2000. Since 1994, a total of 1,411 homestead permits were issued to private individuals.

**Table 15.1 CNMIG Geographic Characteristics: 1995**

| Islands               | Area (sq. mi.) | Highest Elevation (feet) | Distance from Saipan (naut. m i.) | Private Land (percent) |
|-----------------------|----------------|--------------------------|-----------------------------------|------------------------|
| Total                 | 176.5          | 3,166                    | ...                               | 27                     |
| Rota                  | 32.8           | 1,625                    | 69 South                          | 35                     |
| Aguigan (Goat Is.)    | 2.7            | 584                      | 12 S.                             | 0                      |
| Tinian                | 39.2           | 583                      | 6 S.                              | 20                     |
| Saipan                | 46.5           | 1,554                    | ...                               | 62                     |
| Farallon de Medinilla | 0.4            | 266                      | 45 North                          | 0                      |
| Anatahan              | 12.5           | 2,585                    | 75 N.                             | 0                      |
| Sarigan               | 1.9            | 1,801                    | 95 N.                             | 0                      |
| Guguan                | 1.5            | 988                      | 130 N.                            | 0                      |
| Almagán               | 4.4            | 2,441                    | 146 N.                            | 0                      |
| Pagan                 | 18.6           | 1,870                    | 173 N.                            | 0                      |
| Agrhan                | 11.4           | 3,166                    | 206 N.                            | 0                      |
| Asunción              | 2.8            | 2,923                    | 260 N.                            | 0                      |
| Maug (3 islands)      | 0.8            | 746                      | 280 N.                            | 0                      |
| Farallon de Pajaros   | 1.0            | 1,047                    | 315 N.                            | 0                      |

Source: Division of Public Lands

**Table 15.2 Public Land by Land Use Category: 2000**

| Land Use Category               | Area (Hectares) | Percent |
|---------------------------------|-----------------|---------|
| Total                           | 6,612.7         | 57.9    |
| Conservation and wildlife areas | 845.33          | 12.8    |
| Temporary agriculture grazing   | 323.87          | 4.9     |
| Public facilities               | 655.78          | 9.9     |
| Village homestead               | 554.07          | 8.4     |
| Resort hotels with golf courses | 406.80          | 6.2     |
| Proposed new golf courses       | 415.00          | 6.3     |
| Transportation                  | 415.31          | 6.3     |
| Reserved for land exchanges     | 79.27           | 1.2     |
| Commercial lease                | 91.39           | 1.4     |
| Hotel leases                    | 40.53           | 0.6     |
| Other                           | 2,785.35        | 42.1    |

Source: Division of Public Lands

**Public Land Use**

Approximately, 58% of land in the CNMI is set aside for public use, according to data provided by the Division of Public Lands. Nearly, 13% of this public land is allocated for conservation and wildlife areas, 10% is for public facilities, 8% is marked for village homesteads and 42% is designated for unspecified other purposes. The remaining 27% of public land is allocated for additional uses.

### Homestead Permits

The number of village homestead permits issued decreased from 750 in 1994 to 40 in 2000.

**Table 15.3 Number of Village Homestead Permits Issued by Island: 1994 to 2000**

| Island          | Year |      |      |      |      |      |      |
|-----------------|------|------|------|------|------|------|------|
|                 | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 |
| Total           | 40   | 210  | 71   | 173  | 77   | 90   | 750  |
| Saipan          | 6    | 190  | 69   | 16   | 77   | 90   | 750  |
| Dandan          | 0    | 1    | 0    | 0    | 0    | 0    | 1    |
| Lower Navy Hill | 0    | 0    | 0    | 0    | 0    | 2    | 3    |
| Kagman III      | 0    | 189  | 69   | 16   | 76   | 82   | 734  |
| Kagman II       | 0    | 0    | 0    | 0    | 0    | 3    | 8    |
| Kagman I        | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| As Matuis       | 0    | 0    | 0    | 0    | 1    | 3    | 3    |
| Rota            | 33   | 19   | 2    | 157  | 0    | 0    | 0    |
| Sinapab III     | 0    | 1    | 0    | 82   | 0    | 0    | 0    |
| Sinapab II      | 0    | 1    | 0    | 61   | 0    | 0    | 0    |
| Sinapab I       | 0    | 17   | 2    | 14   | 0    | 0    | 0    |
| Tinian          | 1    | 1    | 0    | 0    | 0    | 0    | 0    |

Source: Division of Public Lands

### Land Exchange

Virtually all of Saipan's land exchange cases in 1999 and 2000 were pending. There were no completed land exchange cases in Rota in 2000.

**Table 15.4 Number of Land Exchange Cases: 1994 to 2000**

| Case Status | Year |      |      |      |      |      |      |
|-------------|------|------|------|------|------|------|------|
|             | 2000 | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 |
| Saipan      |      |      |      |      |      |      |      |
| Completed   | 1    | 9    | 9    | 34   | 33   | 2    | 27   |
| Pending     | 222  | 188  | 4    | 10   | 30   | 36   | 7    |
| Rota        |      |      |      |      |      |      |      |
| Completed   | 0    | 11   | 0    | 0    | 5    | 0    | 13   |
| Pending     | 24   | 18   | 0    | 0    | 2    | 0    | 4    |

Source: Division of Public Land

### Number of Land Permits

The majority of land permits issued over the past five years have been 1 to 5 year commercial permits, according to data provided by the Department of Land and Natural Resources. Data for 2000 were not available for this pressing.

**Table 15.5 Type and Number of Permits and Commercial Leases Issued by Division of Public Land: 1994 to 1999**

| Type of Permit               | Year |      |      |      |      |      |
|------------------------------|------|------|------|------|------|------|
|                              | 1999 | 1998 | 1997 | 1996 | 1995 | 1994 |
| Commercial Permits, 1-5 year | 9    | 8    | 4    | 0    | 13   | 4    |
| Quarry Permits               | 2    | 1    | 1    | 1    | 3    | 0    |
| Maintenance Permits          | 1    | 1    | 1    | 0    | 0    | 1    |
| Agriculture/Grazing Permits  | 1    | 4    | 1    | 0    | 2    | 2    |
| Saipan                       | 1    | 4    | 1    | 0    | 0    | 2    |
| Rota                         | 0    | 0    | 0    | 0    | 0    | 0    |
| Tinian                       | 0    | 0    | 0    | 0    | 0    | 0    |
| Commercial Lease             | 3    | 1    | 8    | 9    | 12   | 3    |

Source: Division of Public Lands, Department of Land & Natural Resources

Chapter 16  
TERRITORIAL COMPARISONS

## Summary of Territorial Comparisons

This concluding chapter sets CNMI's demographic, economic and geographic characteristics in context relative to the US mainland and its insular areas, which include Guam, American Samoa, Virgin Islands, Federated States of Micronesia (FSM) and the Republic of Palau. Descriptive data have been extracted primarily from the 1995 Census on Population and Housing conducted by the US Bureau of the Census in collaboration with insular teams.

The CNMI land area is very small compared to other insular areas. The CNMI's population increased significantly between 1980 and 1995, but it was still lower compared to other areas. Similarly, the CNMI's population density has increased in recent years, but was still lower compared to elsewhere.

Compared to the US Mainland and other insular areas in 1995, the CNMI had:

- second lowest population;
- lowest proportion of persons aged 65 years and older;
- lowest proportion of married couples;
- second lowest fertility rate;
- lowest proportion (37.8) of the population born inside the area;
- highest proportion of own individuals who lived in a different house in 1990;
- second highest percentage of residents with a high school degree;
- highest labor force participation rate;
- highest proportion women's participation rate;
- second highest median number of rooms per housing unit;
- smallest percentage of owner-occupied housing units; and
- highest median house value.

**Table 16.1 Physical and Demographic Features of Pacific Island Countries: 1995**

| Country                | Land area<br>(sq. mi.) | Sea area<br>(sq. mi.) | Midyear Population 1995 |                                 |   |
|------------------------|------------------------|-----------------------|-------------------------|---------------------------------|---|
|                        |                        |                       | Total<br>(1,000)        | Density<br>(Persons/sq.<br>mi.) | Annual growth<br>rate (%) 1990-<br>2000 |
| Northern Mariana Is.   | 177                    | 704                   | 58                      | 328                             | 3.5                                     |
| American Samoa         | 76                     | 151                   | 57                      | 747                             | 3.8                                     |
| Cook Islands           | 93                     | 706                   | 19                      | 208                             | 1.1                                     |
| Fed. States Micronesia | 271                    | 1,150                 | 123                     | 454                             | 2.0                                     |
| Fiji                   | 7,053                  | 498                   | 773                     | 110                             | 1.1                                     |
| French Polynesia       | 1,260                  | 1,942                 | 220                     | 156                             | 2.2                                     |
| Guam                   | 209                    | 84                    | 153                     | 734                             | 2.4                                     |
| Kiribati               | 266                    | 1,370                 | 79                      | 287                             | 1.9                                     |
| Marshall Islands       | 70                     | 823                   | 56                      | 804                             | 3.9                                     |
| Nauru                  | 8                      | 124                   | 10                      | 1,252                           | 1.3                                     |
| New Caledonia          | 7,374                  | 672                   | 185                     | 25                              | 1.7                                     |
| Palau                  | 191                    | 243                   | 17                      | 94                              | 1.7                                     |
| Papua New Guinea       | 178,426                | 1,204                 | 4,295                   | 25                              | 2.3                                     |
| Solomon Islands        | 10,637                 | 517                   | 399                     | 38                              | 3.4                                     |
| Tonga                  | 270                    | 270                   | 106                     | 381                             | 0.8                                     |
| Tuvalu                 | 24                     | 347                   | 10                      | 995                             | 1.6                                     |
| Vanuatu                | 4,586                  | 262                   | 174                     | 30                              | 2.2                                     |
| Wallis and Futuna      | 98                     | 116                   | 14                      | 137                             | 1.1                                     |
| Western Samoa          | 1,133                  | 46                    | 209                     | 190                             | 2.3                                     |

Source: International Data Base, U.S. Bureau of the Census

**Pacific Island Characteristic**

The total land area of the CNMI is very small relative to most other Pacific Regions. Its 1995 population ranks tenth in size below Kiribati. CNMI's annual growth rate between 1990 and 2000 was the third highest in the Pacific Islands region (3.5%).

**Table 16.2 Selected Demographic Characteristics: 1995**

| Characteristics                | CNMI   | United States | Guam    | American Samoa | Virgin Islands | FSM     | Palau  |
|--------------------------------|--------|---------------|---------|----------------|----------------|---------|--------|
| Total Population               | 58,846 | 262,105,000   | 140,910 | 49,775         | 100,130        | 105,506 | 17,225 |
| Persons per household          | 3.95   | 2.67          | 3.9     | 5.88           | 3.05           | 6.8     | 4.86   |
| Males per 100 Females          | 97.1   | 95.6          | 99.6    | 103.2          | 88.5           | 104.5   | 103.8  |
| Percent                        |        |               |         |                |                |         |        |
| Under 18 years                 | 27.6   | 26.9          | 34.6    | 45.7           | 35.2           | 50.9    | 32.7   |
| 65 years and over              | 1.6    | 11.9          | 7.6     | 3.7            | 8.9            | 3.6     | 5.7    |
| Median Age                     |        |               |         |                |                |         |        |
| Total                          | 28.0   | 33.6          | 26.9    | 20.6           | 29.7           | 17.8    | 28.1   |
| Female                         | 26.7   | 34.6          | 27.1    | 21.1           | 30.9           | 18.1    | 27.3   |
| Percent                        |        |               |         |                |                |         |        |
| Married Couples                | 51.1   | 77.7          | 73.1    | 77.6           | 57.2           | 78.7    | 73.8   |
| Female Householder, no husband | 10.3   | 17.6          | 18.1    | 15.7           | 33.8           | 13.8    | 19.8   |
| CEB per 1000 women 15-44 yrs   | 1,356  | 1,242         | 2,568   | 1,823          | 1,923          | 2,254   | 1,446  |

Source: 1995 Census of Population and Housing; Various reports from Insular Areas and the United States Bureau of the Census  
Note: CEB stands for Children Ever Born**Selected Demographic Characteristics**

CNMI households averaged more persons (3.95%) than the US mainland (2.67), but far fewer than in FSM, where households averaged 6.8 persons in 1995.

The proportion of person aged 65 or older living in the CNMI (1.6%) was lower than the mainland US or any insular area. Additionally, the proportion of married couples in the CNMI (51.1%) ranked lower than any other area in 1995. CNMI's fertility rate fell second lowest, after the US region (3.5%).



### Selected Characteristics

The proportion of population born in the area of census enumeration was lowest in the CNMI at 37.8%. More than half of CNMI residents were noncitizens in 1995, far more than in any other region. The percentage of persons obtaining a high school degree was second highest, after the US mainland at 75.8% and CNMI tied with Guam for the percentage of the population with a college degree in 1995.

Table 16.3 Selected Social Characteristics: 1995

| Characteristics                    | CNMI   | United States | Guam    | American Samoa | Virgin Islands | FSM     | Palau  |
|------------------------------------|--------|---------------|---------|----------------|----------------|---------|--------|
| Population                         | 58,846 | 262,105,000   | 140,910 | 49,775         | 100,130        | 105,506 | 17,225 |
| Percent:                           |        |               |         |                |                |         |        |
| Born in this area                  | 37.8   | 91.2          | 58.2    | 60.6           | 51.0           | 96.8    | 72.0   |
| Not a US Citizen                   | 53.3   | 6.1           | 14.4    | 27.8           | 14.7           | 2.6     | 24.3   |
| 5 years and over:                  |        |               |         |                |                |         |        |
| Residence 5 years ago:             |        |               |         |                |                |         |        |
| This House                         | 28.6   | ...           | 59.1    | 79.4           | 62.2           | ...     | 56.4   |
| Outside this Area                  | 46.4   | ...           | 16.6    | 8.6            | 11.7           | 2.4     | 25.4   |
| Speak only English at home         | 14.1   | ...           | 44.7    | 7.1            | 75.1           | 1.6     | 20.7   |
| 25 years and over:                 |        |               |         |                |                |         |        |
| Total High School Graduates        | 75.8   | 87.1          | 73.1    | 61.0           | 58.6           | 31.8    | 60.8   |
| Female High School Graduates       | 70.7   | 88.2          | 70.8    | 60.8           | 60.1           | 22.4    | 58.6   |
| Total Completed 4 yr. College      | 17.7   | 25.0          | 17.7    | 5.9            | 16.6           | 4.7     | 12.2   |
| Total Female Completed 4 yr. Coll. | 17.1   | 24.9          | 18.9    | 4.5            | 17.0           | 2.1     | 12.8   |

Source: 1995 Census of Population and Housing; Various reports from Insular Areas and the United States Bureau of the Census.

### Economic Characteristics

The CNMI ranked first in both overall and women's labor force participation rate 185.6% and 81.2%, respectively for 1995. The CNMI's median household income ranked fourth highest compared to other areas as did its per capita income, \$6,897. The percentage of the population living below the US poverty threshold (54.2%) was considerably higher than the mainland, however the measure has serious limitations when applied to regions outside the contiguous states.

Table 16.4 Selected Economic Characteristics: 1995

| Characteristics                      | CNMI   | United States | Guam   | American Samoa | Virgin Islands | FSM    | Palau  |
|--------------------------------------|--------|---------------|--------|----------------|----------------|--------|--------|
| Population 16 years and over         | 43,846 | 198,022,000   | 94,535 | 29,250         | 61,980         | 59,573 | 12,114 |
| Total in labor force (%)             | 85.6   | 66.2          | 57.1   | 44.6           | 61.9           | 43.6   | 68.5   |
| Females in labor force (%)           | 81.2   | 58.7          | 47.5   | 35.7           | 56.5           | 30.1   | 58.8   |
| Private wage and salary workers (%)  | 82.7   | 76.2          | 66.8   | 57.0           | 60.9           | 44.5   | 63.3   |
| Manufacturing industries (%)         | 22.3   | ...           | ...    | 32.2           | 7.7            | 3.4    | 1.0    |
| Professional occupation (%)          | 19.9   | 26.9          | ...    | 22.0           | 21.4           | 16.3   | 23.8   |
| Median household income in 1994 (\$) | 19,094 | 32,264        | 30,035 | 12,278         | 27,422         | 4,494  | 11,810 |
| Median family income in 1994 (\$)    | 21,166 | 38,782        | 25,745 | 11,532         | 29,501         | 4,473  | 12,791 |
| Per capita income in 1994 (\$)       | 6,897  | 16,555        | 11,552 | 2,861          | 12,748         | 940    | 3,508  |
| Percent below poverty level (%)      | 54.2   | 11.6          | 25.4   | 67.7           | 29.1           | 91.0   | 62.8   |

Source: U.S. Census of Population and Housing; Various reports from Insular Areas and the United States Bureau of the Census.

**Table 16.5 Characteristics of Year-Round Housing Units: 1995**

| Characteristics           | CNMI   | United States | Guam   | American Samoa | Virgin Islands | FSM    | Palau |
|---------------------------|--------|---------------|--------|----------------|----------------|--------|-------|
| Housing units             | 14,590 | 106,611,000   | 36,505 | 8,460          | 43,707         | 16,609 | 3,235 |
| Percent:                  |        |               |        |                |                |        |       |
| One family house detached | 55.6   | 60.3          | 59.7   | 84.1           | 43.5           | 88.9   | 74.6  |
| Outside walls concrete    | 71.5   | ...           | 91.2   | 52.0           | ...            | 42.1   | 35.0  |
| Roofpowed concrete        | 50.4   | ...           | 82.9   | 2.8            | ...            | 14.8   | 12.8  |
| Median no. of rooms       | 4.4    | 5.3           | 4.3    | 4.1            | 4.3            | 3.2    | 4.0   |
| Percent:                  |        |               |        |                |                |        |       |
| Complete plumbing         | 39.9   | 97.8          | 97.4   | 59.0           | 86.5           | 6.3    | 45.2  |
| Hot and cold water        | 41.1   | 99.9          | 88.1   | 17.5           | 81.1           | 4.0    | 20.5  |
| Flush toilet              | 92.5   | 99.8          | 99.0   | 95.2           | 99.2           | 34.4   | 62.3  |
| Water from public system  | 93.8   | 84.7          | 99.6   | 74.1           | 49.2           | 17.8   | 92.1  |
| Connected to public sewer | 35.0   | 75.8          | 73.8   | 29.4           | 54.6           | 10.7   | 41.3  |

Source: 1995 U.S. Census of Population and Housing; Various reports from Insular Areas and the United States Bureau of the Census.

Note: "... means not available.

**Housing Characteristics**

CNMI generally ranked in the middle compared to other areas in the percentage of one-family detached houses and walls made of concrete in 1995. The median number of rooms in the CNMI (4.4) was second highest, after the US mainland, however the percentage of houses with complete plumbing was relatively low (39.9%). The proportion of housing units with hot and cold water was forth highest in the CNMI (41.1%) and most units had flushing toilets, though this percentage (92.5%) was lower than in nearby Guam (99%). CNMI housing units were more likely to use water from a public system than other insular areas, but only 35% were connected to a public sewer in 1995.

**Table 16.6 Characteristics of Occupied Housing Units: 1995**

| Characteristics               | CNMI    | United States | Guam    | American Samoa | Virgin Islands | FSM    | Palau  |
|-------------------------------|---------|---------------|---------|----------------|----------------|--------|--------|
| Housing Units                 | 14,590  | 106,611,000   | 36,505  | 8,460          | 43,707         | 16,609 | 3,235  |
| Percent:                      |         |               |         |                |                |        |        |
| Owneroccupied                 | 33.5    | 64.7          | 54.6    | 81.2           | 52.4           | 73.8   | 75.7   |
| Complete kitchen facilities   | 69.8    | 96.4          | 91.3    | 59.5           | ...            | 11.3   | 72.4   |
| Electricity                   | 80.9    | 100.0         | 99.7    | 98.1           | ...            | 51.2   | 99.2   |
| With refrigerator             | 74.4    | 97.4          | 98.8    | 84.5           | ...            | 23.5   | 82.0   |
| Air conditioning              | 55.9    | 69.6          | 81.2    | 9.6            | 11.5           | 5.4    | 24.2   |
| With telephone                | 50.4    | 6.6           | 94.4    | 67.8           | 90.0           | 28.0   | 53.4   |
| With automobile               | 74.0    | 89.7          | 98.5    | 53.4           | 74.6           | 23.3   | 36.5   |
| Median monthly rent paid (\$) | 429     | 494           | 708     | 321            | 412            | 467    | 372    |
| Median value of house (\$)    | 203,213 | 86,418        | 179,286 | 29,670         | 124,400        | 4,968  | 28,676 |

Source: U.S. Census of Population and Housing; Various reports from Insular Areas and the United States Bureau of the Census.

**Housing Characteristics**

The percentage of owner-occupied housing units in the CNMI in 1995 was lower than all other areas (33.5%), however CNMI units were more likely to have kitchens than other insular areas excluding Guam. Most notable is the CNMI's median house value (\$203,213) which was significantly higher than the US or any other area.