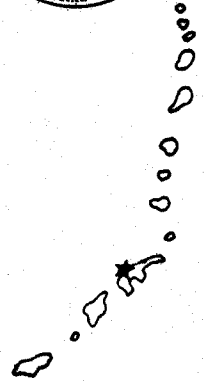


1995

COMMONWEALTH *of the*

NORTHERN MARIANA ISLANDS

STATISTICAL YEARBOOK



Central Statistics Division ♦ Department of Commerce

Michael J Levin
Population Division
Bureau of the Census
Washington, DC 20233

1995

COMMONWEALTH of the
NORTHERN MARIANA ISLANDS
STATISTICAL YEARBOOK

June 1996

Department of Commerce
Pedro Q. Dela Cruz, Secretary

Central Statistics Division
Juan S. Borja, Director



DEPARTMENT OF COMMERCE
COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS
CALLER BOX 10007
C.K., SAIPAN, MP 96950

TEL. NO. (670) 664-3000/1/2
FAX NO. (670) 664-3067

MESSAGE FROM THE SECRETARY

The Department of Commerce is pleased to release the 1995 COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS STATISTICAL YEARBOOK, prepared by our Central Statistics Division (CSD). The volume contains the statistical data mandated to be published annually under the **Statistical Act of 1990**.

The range and quality of the data available in this publication indicate the tremendous amount of time and effort rendered by the CSD staff in compiling, editing and finalizing the information covered. Although some data might be very basic, they are essential baseline information to equip our decision and policy makers, planners and other data users both in the private and public sector.

It is only proper for me, at this time, to commend the Director of CSD and his staff for their excellent efforts in compiling and publishing this Yearbook. We look forward to the subsequent publication of this important statistical data source.


PEDRO Q. DELA CRUZ



DEPARTMENT OF COMMERCE
CENTRAL STATISTICS DIVISION
COMMONWEALTH OF THE NORTHERN MARIANA ISLANDS
CALLER BOX 10007, C.K., SAIPAN, MP 96950

TEL. NO. (670) 664-3034/3043
FAX. NO. (670) 664-3066

FOREWORD/ACKNOWLEDGEMENT

We have endeavored to 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 table 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 who need to do 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(s) of data for each table is (are) listed at the lower left of each table.

We hoped this publication will meet your statistical needs. The contents are the most reliable data we have on the topics. But, in order for the subsequent series to become even more useful, we need to have you, the user, tell us how we may improve it. We welcome your comments, corrections, and suggestions that will help improve the usefulness of this and the annual publications in the coming years. Forward your comments to:

*Central Statistics Office
Department of Commerce
Caller Box 10007
Chalan Kanoa
Saipan, MP 96950*

This Yearbook was prepared by the CNMI Central Statistics Division, Department of Commerce, under my direction. I would like to thank my staff--Wilhelm Maui, Tom Torres, Jke Teregeyo, Sid Ogarto, Jenny Thomas, Carline Sablan, and Alice Agulto--for their efforts in completing this third Yearbook for the CNMI. Many thanks to Dr. Mike Levin, U.S. Bureau of Census, who reviewed this Yearbook in draft forms and provided valuable advises toward its completion. I thank the many agencies, offices, and businesses for their cooperation during the data collection process, without which this publication would not have been completed. I also thank Ms. Sue Singh-Banes for making her time available to proofread this publication. And last but not least, special thanks to OTJA of the Department of Interior for the Technical Assistance in this project and many others.

*Juan S. Borja
Director, Central Statistics Division*

Table of Contents

	<u>Page</u>
Message from the Secretary	ii
Foreword	iii
Table of Contents	iv
List of Tables	v
List of Figures	xii
English and Metric Conversion Table	xiv
Chapter 1: Population	1
Chapter 2: Vital Statistics	15
Chapter 3: Education	25
Chapter 4: Labor force and Employment	37
Chapter 5: Household and Personal Income	51
Chapter 6: Accidents and Offenses	63
Chapter 7: Voters and Elections	69
Chapter 8: Tourism	79
Chapter 9: Housing	85
Chapter 10: Transportation and Communication	97
Chapter 11: Finance, Business Establishments and Trade	103
Chapter 12: Fishing and Agriculture	113
Chapter 13: Revenues	121
Chapter 14: Prices Index	127
Chapter 15: Land Use	131
Chapter 16: Territorial Comparisons	137

List of Tables

	<u>Page</u>
Chapter 1	
Table 1.1 Population by Island: 1920 to 1992	4
Table 1.2 Population Density by Island: 1920 to 1992	4
Table 1.3 Population by Island and Place: 1980 and 1990	5
Table 1.4 Population by Age and Sex: 1973, 1980, and 1990	5
Table 1.5 Age Distribution by Island: 1990	6
Table 1.6 Males per 100 Females by Island: 1980 and 1990	6
Table 1.7 Household Relationship by Island: 1990	7
Table 1.8 Marital Status by Sex: 1980 and 1990	7
Table 1.9 Age, Marital Status, and Fertility by Island: 1990	8
Table 1.10 Total Fertility and Age-Specific Fertility Rates: 1980 and 1990	9
Table 1.11 Place of Birth by Island: 1990	9
Table 1.12 Selected Places of Birth: 1980 and 1990	10
Table 1.13 Place of Birth by Sex: 1990	10
Table 1.14 Age by Place of Birth: 1990	11
Table 1.15 Age by Ethnicity: 1990	11
Table 1.16 Ethnicity by Island: 1990	12
Table 1.17 Year of Immigration into CNMI by Island: 1990	12
Table 1.18 Mid-Range Population Estimates	13
Table 1.19 High Range Population estimates	13
Chapter 2	
Table 2.1 Births and Deaths: 1984 to 1994	17
Table 2.2 Live Births by Type of Health Facility: 1987 to 1994	17
Table 2.3 Registered Live Births by Month: 1986 to 1994	18
Table 2.4 Registered Live Births by Age of Mother: 1988 to 1994	18
Table 2.5 Live Births by Order of Birth: 1987 to 1994	19
Table 2.6 Live Births by Age of Mother and Live Birth Order: 1994	19
Table 2.7 Live Births by Legitimacy and Age of Mother: 1992 and 1994	20
Table 2.8 Live Births by Birth Weight: 1986 to 1994	20
Table 2.9 Registered Live Births by Type of Attendant: 1987 to 1994	21
Table 2.10 Registered Deaths by Age: 1986 to 1994	21
Table 2.11 Registered Deaths by Age and Sex: 1990 to 1994	22
Table 2.12 Registered Deaths by Month: 1986 to 1994	22
Table 2.13 Registered Infant Deaths by Month: 1986 to 1994	23
Table 2.14 Leading Causes of Death: 1986 to 1994	23

Chapter 3		<u>Page</u>
Table 3.1	Beginning of School Year Student Enrollment by School and by School Year: SY 1990-91 to SY 1994-95	27
Table 3.2	Student Enrollment by Grade Level: SY 1990-91 to SY 1994-95	28
Table 3.3	PSS Headstart Number of Pupils and Number of Staff by Center: SY 1990-91 to SY 1994-95	29
Table 3.4	Number of Graduates at Public Secondary Schools: SY81-82 to SY94-95	29
Table 3.5	Number of Teachers and Teacher Aides by School and School Year SY 1991-92 to SY 1994-95	30
Table 3.6	Students Enrolled in School by Ethnicity by School Year: SY 1990-91 to 1994-95	31
Table 3.7	Student-Teacher Ratio by School Level: 1993-94 and 1994-95	31
Table 3.8	Educational Background of Teachers: SY 1982-83 to 1991-92	32
Table 3.9	Northern Marianas College Enrollment: SY 1982-83 to SY1994-95	32
Table 3.10	Graduates from Northern Marianas College: 1990 to 1994	33
Table 3.11	Educational Attainment: 1980 and 1990	33
Table 3.12	Female Educational Attainment: 1980 and 1990	34
Table 3.13	Number of Graduates, Private Secondary Schools: SY 1993-94 and SY 1994-95	34
 Chapter 4		
Table 4.1	Labor Force Participation by Island: 1980 and 1990	40
Table 4.2	Male Labor Force Participation by Island: 1980 and 1990	40
Table 4.3	Female Labor Force Participation by Island: 1980 and 1990	40
Table 4.4	Females with Own Children by labor Force: 1980 and 1990	41
Table 4.5	Persons in Labor Force by Years of Schooling Completed: 1990	41
Table 4.6	Ethnicity by Labor Force Participation: 1990	42
Table 4.7	Ethnicity by Labor Force Participation: 1980	42
Table 4.8	Class of Worker: 1980 and 1990	43
Table 4.9	Workers by Industry: 1970 to 1990	43
Table 4.10	Male Workers by Industry: 1970 to 1990	44
Table 4.11	Female Workers by Industry: 1970 to 1990	44
Table 4.12	Industry Employment by Island: 1990	45
Table 4.13	Industry Employment by Ethnicity: 1980	45
Table 4.14	Industry Employment by Sex: 1980 and 1990	46
Table 4.15	Occupational Employment by Island: 1990	46
Table 4.16	Permits Issued to Non-Resident Workers by Nationality: 1989 to 1994	47
Table 4.17	Permits Issued to Non-Resident Workers by Status and Year: 1990-1992	47

	<u>Page</u>
Table 4.18 Permits Issued to Non-Resident Workers by Industry and by year: 1991-1994	47
Table 4.19 Permits Issued to Non-Resident Workers by Occupation: 1994	48
Table 4.20 Non-Resident Work Permits issued by Employment Sector: 1989-1994	48
Table 4.21 Permits Issued to Non-Resident Workers by Industry and by Nationality: 1994	49
Table 4.22 Permits Issued to Non-Resident Workers by Industry and by Nationality: 1993	49
 Chapter 5	
Table 5.1 Households Income by Island in 1989: 1990	53
Table 5.2 Family Income by Island in 1989: 1990	53
Table 5.3 Households by Income Type in 1989 by Island: 1990	54
Table 5.4 Mean Household Income by Type in 1989: 1990	54
Table 5.5 Income Level of Persons by Sex in 1989: 1990	55
Table 5.6 Income Level of Persons by Birthplace in 1989: 1990	55
Table 5.7 Wage and Salary Income, Wage and Salary Earners, and Average Earnings: 1980 to 1994	56
Table 5.8 Average Hourly Wage Rates by Birthplace and Citizenship: 1990	56
Table 5.9 Average Hourly Wage Rates by Citizenship: 1990 and 1992	57
Table 5.10 Average Hourly Wage Rates by Class of worker: 1990 and 1992	57
Table 5.11 CNMI Wage and Salary Earners by Sector: 1991 and 1993	58
Table 5.12 NAP Actual Participation in the CNMI by Month: FY1993 and FY1994	58
Table 5.13 NAP Actual Participation in Saipan by Month: FY 1993 and FY 1994	59
Table 5.14 NAP Actual Participation in Rota by Month: FY 1993 and FY 1994	59
Table 5.15 NAP Actual Participation in Tinian by Month: FY 1993 and FY 1994	60
Table 5.16 NAP Actual Participation in the Northern Islands by Month: FY 1993 and FY 1994	60
Table 5.17 NAP Actual Participation by Ethnicity in FY 1994	61
 Chapter 6	
Table 6.1 Type and Number of Juvenile Offenses: 1989 to 1994	65
Table 6.2 Number of Traffic Accidents by Month: 1990 to 1994	65
Table 6.3 Index of Juvenile Offenses: 1986 to 1994	66
Table 6.4 DUI Arrests by Ethnicity and by Sex: 1991 to 1994	66
Table 6.5 DUI Arrests in 1994: Ethnicity by Month	67
Table 6.6 DUI Arrests in 1993: Ethnicity by Month	67

	<u>Page</u>
Table 6.7	DUI Arrests by Ethnicity: 1991 to 1994 68
Table 6.8	Index of Offenses: Saipan 1991 to 1995 68
 Chapter 7	
Table 7.1	Number of Registered Voters in 1991, 1993, and 1995: Election Districts by Election Year 71
Table 7.2	Number of Registered Voters who voted in 1991, 1993, and 1995: Election Districts by Election Year 71
Table 7.3	Number of Male Registered Voters in 1991, 1993, and 1995: Election Districts by Election Year 72
Table 7.4	Number of Male Registered Voters who voted in 1991, 1993, and 1995: Election Districts by Election Year 72
Table 7.5	Number of Female Registered Voters in 1991, 1993, and 1995: Election Districts by Election Year 73
Table 7.6	Number of Female Registered Voters Who Voted in 1991, 1993, and 1995: Election Districts by Election Year 73
Table 7.7	Percent of Registered Voters Who Voted in 1991, 1993, and 1995: Election Districts by Election Year and Sex 74
Table 7.8	Number of Registered Voters by Election District by Age Group and by Sex, 1995 74
Table 7.9	Number of Registered Voters Who Voted in 1995: Election District by Age Group and by Sex 75
Table 7.10	Registered Voters: Election District by Ethnicity in 1993 75
Table 7.11	Registered Voters: Election District by Ethnicity in 1993 76
Table 7.12	Registered Voters: Election District by Ethnicity in 1995 76
Table 7.13	Number of Registered Voters by Ethnicity: Election Years 1987 to 1995 77
 Chapter 8	
Table 8.1	CNMI Visitors Arrival By Month: Calender Year 19987 to 1994 81
Table 8.2	Visitor Entries by Country of Citizenship: FY 1987 to FY 1994 81
Table 8.3	Visitor Entries by Island of Entry: FY 1986 to FY 1994 82
Table 8.4	Number of Hotel Rooms, Visitor Entries, and Visitor Estimated Expenditures: FY1980 to 1994 82
Table 8.5	CNMI Visitors Arrival by Air : Calendar Year 1989 to 1994 83
Table 8.6	CNMI Visitors Arrival by Sea: Calendar Year 1989 to 1994 83
Table 8.7	CNMI Visiotrs Arrival by Country of Origin and Month: 1995 84

	<u>Page</u>
Chapter 9	
Table 9.1	Units in Structure: 1980 and 1990 88
Table 9.2	Units in Structure by Island: 1990..... 88
Table 9.3	Year Structure Built by Island: 1990 89
Table 9.4	Material for Outside Walls: 1967, 1980 and 1990 89
Table 9.5	Material for Outside Roofs: 1967, 1980 and 1990 89
Table 9.6	Plumbing Facilities: 1980 and 1990 90
Table 9.7	Source of Water: 1980 and 1990 90
Table 9.8	Source of Water by Island: 1990 90
Table 9.9	Sewage Disposal by Island: 1990 91
Table 9.10	Electricity, Cooking Facilities, and Refrigerator: 1980 and 1990 91
Table 9.11	Electric Power by Island: 1990 91
Table 9.12	Air Conditioning by Island: 1990 92
Table 9.13	Refrigerator by Island: 1990 92
Table 9.14	Telephone, Radio, and Television by Island: 1990 92
Table 9.15	Cooking Facilities by Island: 1990 93
Table 9.16	Rooms in unit: 1970, 1980, and 1990 93
Table 9.17	Person in Units: 1970 and 1980 94
Table 9.18	Persons per Room: 1970 and 1980 94
Table 9.19	Tenure and Persons per Occupied Housing Unit by Island: 1990 94
Table 9.20	Value of Owner-occupied Housing Units by Island: 1990 95
Table 9.21	Contract Rent by Island: 1990 95
Chapter 10	
Table 10.1	Number of Registered Vehicles in Saipan: 1990-93 99
Table 10.2	Type and Number of Vehicles in Tinian 99
Table 10.3	Type and Number of Vehicles in Rota 99
Table 10.4	Motor Vehicle Registration: 1989 to 1993 100
Table 10.5	Vehicles Available by Island: 1990 100
Table 10.6	Vehicles Available by Island: 1980 100
Table 10.7	Registered and inspected Government Vehicles by Type and Year: 1981 to 1994 101
Table 10.8	Vessel Inventory for Saipan: 1987 to 1994 101
Table 10.9	Number of installed Telephones by type of Subscribers: 1982 to 1994 102
Table 10.10	Number of Taxicab Vehicles: 1992 to 1995 102
Chapter 11	
Table 11.1	Aggregated Banking Activities: 1988 to 1993 (values in millions of dollars) 105

Table 11.2	Number of Business Establishments and Number of Employees in Selected Industries in the CNMI: 1987	105
Table 11.3	Number of Business Establishments and Number of Employees in Selected Industries in the CNMI: 1992	106
Table 11.4	Selected Import Commodities by Year in Dollars: 1988 to 1991	106
Table 11.5	Inbound and Outbound Ocean Cargo: FY 1980 to FY 1994	107
Table 11.6	Value of Major Commodities Imported: 1991 to 1994 (in millions of dollars)	107
Table 11.7	Gross Revenue Tonnage and Container Trends at Saipan's Port: 1984 to 1994	108
Table 11.8	Import Commodities by Standard Internatioal Trade Classification: FY 1988 to FY 1991 (FOB value in US \$000)	108
Table 11.9	General Sttistics by Industry and Selected Kind of Business : 1992	109
Table 11.10	Number of Business by Legal Form of Business : 1992	109
Table 11.11	General Statistics by Industry Groups and Islands: 1992	110
Table 11.12	Number of Establishment by Business Gross Receipts: Industry Divisions, 1992	110
Table 11.13	Distribution of Establishments by Citizenship Status of Owner for Industry Groups and Islands : 1992	111
Table 11.14	Business Industry Divisions by Business Gross Receipts: (In US \$1,000 dollars), 1992	111
Table 11.15	General Statistics by Employment: 1992	112
Chapter 12		
Table 12.1	Amount and Value of CNMI Commercial Fish Landing by Common Species, 1994	115
Table 12.2	Amount and Value of CNMI Commercial Fish Landing by Common Species, 1993	116
Table 12.3	Commercial Fish Purchases: 1994	117
Table 12.4	Commercial Fish Purchases: 1993	118
Table 12.5	Pounds of Fish Product Imported by Month: 1990 to 1994	119
Table 12.6	Pounds of Fish Products Imported by Country of Origin: 1990 to 1994	119
Table 12.7	Farms, Land in Farms, and Land Use: 1980 and 1990	120
Table 12.8	Number of Livestock Farms, Livestock Products and Sales in 1989	120
Table 12.9	Number of Poultry Farms, Poultry Products, and Sales in 1989	121
Chapter 13		
Table 13.1	CNMI Revenue by Sources: FY 1991 to FY 1993 (In thousands \$US dollars)	123

	<u>Page</u>
Table 13.2	Reported Business Gross Revenue in Dollars by Business Activity: 1990 to 1993 123
Table 13.3	Reported Wage and Salary by Selected Activity: Calendar Year 1992 to 1994 (in thousands US \$ dollars) 124
Table 13.4	Combined Statements of Revenues and Expenditures: 1990 to 1993 (In thousands \$US dollars. Years ended September 30) 124
Table 13.5	Characteristics of General Fund Revenues: FY 1990 to FY 1993 (In thousands \$US dollars) 125
Table 13.6	Characteristics of General Fund Expenditures: FY 1990 to FY1993 (In thousands \$US dollars) 125
Table 13.7	CNMI Statement of Revenue Type by Source: FY 1993 and FY1994 (In thousands \$US dollars) 126
Table 13.8	CNMI Statement of Expenditures, by Function: FY 1993 and FY1994 (In thousands \$US dollars) 126
Chapter 14	
Table 14.1	Consumer Price Index: 1977 to 1995 129
Chapter 15	
Table 15.1	CNMI Geographic Characteristics: 1992 133
Table 15.2	Public Land by Land Use Category in 1993 133
Table 15.3	Number of Agricultural Waivers Approved and Village Homestead Permits Issued by Island:1990 to 1994 134
Table 15.4	Number of Land Exchange Cases 134
Table 15.5	Type and Number of Permits and Commercial Leases Issued by MPLC: 1992 to1994 135
Chapter16	
Table 16.1	Physical and Demographic Features of Pacific Islands Countries: 1992 140
Table 16.2	Selected Demographic Characteristics: 1990 141
Table 16.3	Selected Social Characteristics: 1990 141
Table 16.4	Selected Economic Characteristics: 1990 142
Table 16.5	Characteristics of Year-Round Housing Units: 1990 142
Table 16.6	Characteristics of Occupied Housing Units: 1990 143

List of Figures

		<u>Page</u>
Figure 1.1	CNMI Population: Actual and Projected	4
Figure 1.2	Population Distribution by Island	4
Figure 1.3	1990 Population by Age Group	5
Figure 1.4	Place of Birth in 1980 and 1990	10
Figure 1.5	Percent Born within and outside CNMI by Age Group in 1990	11
Figure 1.6	Migrants into the CNMI by Year of Entry	12
Figure 2.1	Number of Births and Deaths in the CNMI, 1984 to 1994	17
Figure 2.2	Number of Births in the First six and the Second six-months of the Year, 1986 to 1994	18
Figure 2.3	Number of Deaths per Year, 1987 to 1994	21
Figure 2.4	Number of Deaths by Sex, 1990 to 1994	22
Figure 3.1	Recent Enrollment Trends for PSS Headstart, Elementary, and Secondary Levels, SY 90-91 to SY 94-95	27
Figure 3.2	Percent of Total Enrollment in Public and Private Schools SY 90-91 to SY 94-95	28
Figure 3.3	Total Enrollment for PSSHeadstart, SY 90-91 to SY 94-95	29
Figure 3.4	Number of High School Graduates from PSS, SY 81-82 to SY 94-95	29
Figure 3.5	Total Enrollment by Ethnicity, SY 94-95	31
Figure 4.1	Number of Persons in the Labor Force in 1980 and 1990	40
Figure 4.2	Employment by Class of Workers in the CNMI in 1990	43
Figure 4.3	Total Workers by Industry in the CNMI in 1990	43
Figure 4.4	Number of Permits Issued by Occupational category, 1994	47
Figure 4.5	Average Work Permit Issued by Employment Sector, 1989 to 1994	47
Figure 4.6	Number of Permits Issued to Non-Resident Workers, 1989 to 1994	48
Figure 4.7	Number of Permits Issued by Nationality, 1989 to 1994	48
Figure 4.8	Work Permits Issued to Non Resident Workers by Ethnicity in 1994	49
Figure 5.1	Source of Household Income in 1989	54
Figure 5.2	NAP Individual Participants by Ethnicity	61
Figure 6.1	Total Number of Juvenile Criminal Offenses in the CNMI, 1987 to 1995	65
Figure 6.2	Total Number of Traffic Accidents	65
Figure 6.3	Trends of Selected Types of Juvenile Criminal Offenses in the CNMI 1986 to 1995	66
Figure 6.4	Total Number of DUI Arrests by Ehtnicity in the CNMI, 1995	67
Figure 6.5	Total Number of DUI Arrests, 1991 to 1995	68
Figure 6.6	Index of Offenses: Saipan, 1991 to 1995	68
Figure 7.1	Number of Registered Voters by Election Districts in 1995	71

	<u>Page</u>
Figure 7.2 Registered Voters by Ethnicity, 1995	76
Figure 8.1 Annual Number of Visitors to the CNMI, 1987 to 1995	81
Figure 8.2 Percent Composition of Total Visitors in the CNMI by Country of Origin	81
Figure 9.1 Materials for Outside Walls	89
Figure 10.1 Number of Installed Telephones, 1982 to 1995	102
Figure 10.2 Number of Registered Taxicabs, 1992 to 1995	102
Figure 11.1 Bank Deposits, Loans, and Interests, 1989 to 1995	105
Figure 11.2 Number of Business Establishments in Selected Activities	105
Figure 11.3 Inbound and Outbound Ocean Cargo at Saipan Seaport, 1984 to 1995	107
Figure 11.4 Total Import by Major Commodities in 1994	107
Figure 11.5 Gross Revenue Tons at Saipan's Port, 1984 to 1995	108
Figure 11.6 Number of Containers at Saipan's Port: 1984 to 1995	108
Figure 12.1 Pounds of Commercial Fish Landing in the CNMI, 1990 to 1995	117
Figure 12.2 Pounds of Fish Imported into the CNMI, 1990 to 1995	119
Figure 12.3 Annual Average Pounds of Fish Imported by Country of Origin	119

English and Metric Conversion Table

English	Conversion Parameter	Metric	Metric	Conversion Parameter	English
Length					
Inches	X	25.400 = millimeters	millimeters	X	0.039 = Inches
Feet	X	0.305 = meter	meter	X	3.281 = Feet
Statute miles	X	1.609 = kilometers	kilometers	X	0.621 = Statute miles
Area					
Sq. feet	X	0.093 = sq. meter	sq. meter	X	10.764 = Sq. feet
Acres	X	0.405 = hectares	hectares	X	2.471 = Acres
Sq. miles	X	2.589 = sq. kilometers	sq. kilometers	X	0.386 = Sq. miles
Volume & Capacity					
Cubic feet	X	0.028 = cu. meters	cu. meters	X	35.315 = Cubic feet
Cubic yard	X	0.765 = cu. meters	cu. meters	X	1.308 = Cubic yard
Fluid ounces	X	29.573 = milliliters	milliliters	X	0.034 = Fluid ounces
Quarts (liq.)	X	0.946 = liter	liter	X	0.057 = Quarts (liq.)
Gallons (liq.)	X	3.785 = liters	liters	X	0.264 = Gallons (liq.)
Mass					
Ounces	X	28.350 = grams	grams	X	0.035 = Ounces
Pounds	X	0.454 = kilograms	kilograms	X	2.205 = Pounds
hwt	X	45.359 = kilograms	kilograms	X	0.022 = hwt
Short tons	X	0.907 = metric tons	metric tons	X	1.102 = Short tons
Miscellaneous					
1 statute mile =5,280 feet =1,760 yard			1 acre =43,560 sq. feet		
1 square mile =640 acres			1 short ton =2,000 pounds		

Symbols and Abbreviations

The following symbols and abbreviations are used in the tables throughout this report:

" - "	A dash means no data was available.
" ... "	Three dots mean not applicable.
(D)	A capital letter "D" means data withheld to avoid disclosing individual farms.
N. Is. or North. Is.	N. Is. or North. Is. means Northern Islands.

Chapter 1

POPULATION

SUMMARY OF POPULATION STATISTICS

The population in the Commonwealth of the Northern Mariana Islands increased tremendously between 1980 and 1990. This increase in population took place in the islands of Saipan, Rota, and Tinian, but not in the Northern Islands. Since 1935, Saipan's population has increased proportionately more than Rota's and Tinian's population. By 1990, about 90 percent of the CNMI population was in Saipan, about 5 percent was in Rota, about 5 percent was in Tinian, and less than one percent was in the Northern Islands. Similarly, population density has increased in Saipan much faster than in Rota and in Tinian: by 1995 estimates, population density in Saipan was well over 1,162 persons per square mile; the same estimates showed that in Rota, population density was about 87 persons per square mile; and in Tinian, 71 persons per square mile.

In Saipan, places of population concentration shifted between 1980 and 1990. In 1980, Garapan had over 27 percent of Saipan's total population and Chalan Kanoa had over 18 percent; by 1990, Garapan's population had increased to over 31 percent, San Antonio-Koblerville area's population increased to almost 20 percent, and San Vicente's increased to almost 17 percent of Saipan's total population. In both Rota and Tinian, places of population centers remained the same in 1980 and in 1990: Songsong and San Jose, respectively.

Over 61 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 were residing in the Commonwealth under employment visas. The immigrant population's age distribution was different from that of CNMI-born population: the immigrant population was older, mostly 20 to 44 year-olds. The CNMI born population is younger with a median age of 16.0 years.

Major changes in population characteristics in the Commonwealth resulted from the huge migration into the CNMI between 1980 and 1990. 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 and married females, (2) a high proportion of females employed, (3) a higher median age, and (4) a high male-female ratio.

The population in the CNMI was relatively older in 1990, compared to prior census years: the mean age in 1990 was 27.4 years, compared to 19.6 years in 1980 and 15.7 in 1970.

In 1990, total males outnumbered total females: the male-female ratio in 1990 was 111 males to every 100 females. By age group, however, females outnumbered males in age groups 5-9, 15-19, 20-24, and 60-64 years old.

The majority of total population lived in households in 1990, but proportionately more lived in group quarters compared to 1980: 26.4 percent of population lived in group quarters in 1990, an increase from only 5.4 percent of total population in 1980.

Sixty two percent of males were married, while only 42 percent of females were married in 1990. The disparity between the proportion of married males and married females reflected the different age distribution of male and female populations in the Commonwealth in 1990. A greater proportion of females, compared to males, were in age group 20-29; while a greater proportion of males were in age group 30-44. Hence, the likelihood of males being married was much higher than for females being married.

Only 38.6 percent of population in 1990 were born in the CNMI. The rest, a vast majority, of the population were born outside of the CNMI. Almost half were born in Asian countries (Philippines, Japan, Korea, China, Thailand)—over thirty eight percent were born in the Philippines alone. In contrast, in 1980, almost 72 percent of CNMI population were born in the Commonwealth. This drastic shift in birthplaces of persons in the Commonwealth was more pronounced in Saipan than in Rota and Tinian.

In 1990, the Filipino ethnic group was the largest single ethnic group in the Commonwealth; the Filipinos slightly outnumbered the Chamorros in 1990. This phenomenal change was true in Saipan where the vast majority of CNMI population was (and still is) 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.

The tables in the rest of this chapter show detailed population characteristics in the Commonwealth in recent years.

Figure 1.1 CNMI Population: Actual and Projected

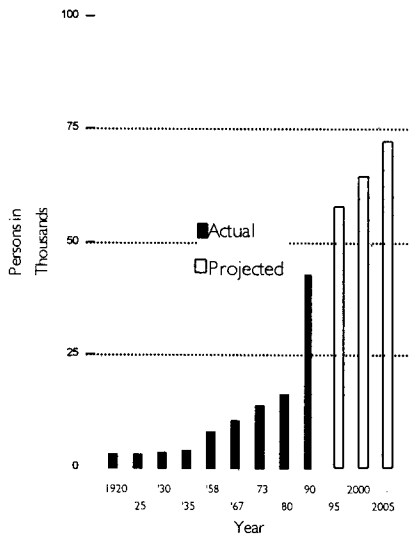
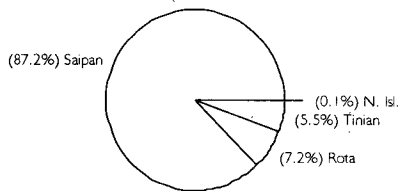


Figure 1.2 Population Distribution by Island in 1990



CNMI Population Density

Population density has been increasing in Saipan much faster than in Rota and in Tinian: by 1992 estimates, population density in Saipan was well over 1,000 persons per square mile; the same estimates showed that in Rota, population density was about 80 persons per square mile; and in Tinian, 65 persons per square mile.

Table 1.1 Population by Island: 1920 to 1992

Census Year	Numbers					Percent				
	Total	Saipan	Rota	Tinian	N. Is.	Total	Saipan	Rota	Tinian	N. Is.
1992*	52,900	47,786	2,561	2,553	...	100.0	90.3	4.8	4.8	...
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; and *1992 Current Household Survey.

Table 1.2 Population Density by Island: 1920 to 1992

Census Year	Numbers					Persons Per Square Mile				
	Total	Saipan	Rota	Tinian	North. Is.	Total	Saipan	Rota	Tinian	North. Is.
Area	...	...	...	...	...	184.0	45.0	32.0	39.0	69.0
1992*	52,900	47,786	2,561	2,553	...	287.5	1061.9	80.0	65.5	...
1990	43,345	38,896	2,295	2,118	36	235.6	864.4	71.7	54.3	0.5
1980	16,780	14,549	1,261	866	104	91.2	323.3	39.4	22.2	1.5
1973	14,333	12,382	1,104	714	133	77.9	275.2	34.5	18.3	1.9
1967	10,986	9,035	1,078	610	263	59.7	200.8	33.7	15.6	3.8
1958	8,290	6,654	969	405	262	45.1	147.9	30.3	10.4	3.8
1935	4,297	3,194	788	24	291	23.4	71.0	24.6	0.6	4.2
1930	3,829	2,915	644	43	227	20.8	64.8	20.1	1.1	3.3
1925	3,493	2,639	487	180	187	19.0	58.6	15.2	4.6	2.7
1920	3,398	2,449	651	112	186	18.5	54.4	20.3	2.9	2.7

Source: Census reports for respective years; 1920-1935 for Natives only
*Estimated from the 1992 Labor force Survey

Table 1.3 Population by Island and Place: 1980 and 1990

Island and Place	Numbers		Percent Change	Percents			
	1990	1980		CNMI		Saipan	
				1990	1980	1990	1980
Total	43,345	16,780	158.3	100.0	100.0	...	...
Saipan	38,896	14,549	167.3	89.7	86.7	100.0	100.0
San Roque	1,250	629	98.7	2.9	3.7	3.2	4.3
Tanapag	3,175	1,476	115.1	7.3	8.8	8.2	10.1
Garapan	12,175	4,006	203.9	28.1	23.9	31.3	27.5
Oleai	2,779	1,720	61.6	6.4	10.3	7.1	11.8
Susupe	1,776	722	146.0	4.1	4.3	4.6	5.0
Chalan Kanoa	3,480	2,678	29.9	8.0	16.0	8.9	18.4
San Antonio	7,685	1,644	367.5	17.7	9.8	19.8	11.3
San Vicente	6,576	1,674	292.8	15.2	10.0	16.9	11.5
Rota	2,295	1,261	82.0	5.3	7.5	...	...
Tinian	2,118	866	144.6	4.9	5.2	...	...
Northern Is.	36	104	-65.4	0.1	0.6	...	...

Source: PC80-1A 57A, Tables 4a and 5; 1990 CPH-6-CNMI, Table 3

Table 1.4 Population by Age and Sex: 1973 to 1990

Age Group	Total			Males			Females		
	1990	1980	1973	1990	1980	1973	1990	1980	1973
Total	43,345	16,780	14,333	22,802	8,817	7,484	20,543	7,963	6,849
Less than 5	4,139	2,464	2,410	2,130	1,274	1,238	2,009	1,190	1,172
5 to 9	3,275	2,148	2,194	1,686	1,040	1,127	1,589	1,108	1,067
10 to 14	2,901	2,193	1,920	1,494	1,119	997	1,407	1,074	923
15 to 19	2,773	1,703	1,635	1,215	842	775	1,558	861	860
20 to 24	5,624	1,512	1,257	1,832	709	590	3,792	803	667
25 to 29	6,140	1,463	986	3,134	753	539	3,006	710	447
30 to 34	5,878	1,303	758	3,330	743	454	2,548	560	304
35 to 39	4,330	864	710	2,635	520	412	1,695	344	298
40 to 44	3,112	824	598	2,042	520	357	1,070	304	241
45 to 49	1,921	660	449	1,352	404	276	569	256	173
50 to 54	1,247	496	419	861	315	230	386	181	189
55 to 59	771	388	330	466	225	158	305	163	172
60 to 64	458	267	268	262	125	150	196	142	118
65 to 69	349	228	169	195	119	81	154	109	88
70 to 74	190	139	109	85	65	45	105	74	64
75 and over	237	128	101	83	44	44	154	84	57
Age N.S	...	...	20	...	...	11	...	...	9
Median	27.4	19.6	15.7	29.9	20.9	15.3	24.9	18.3	16.6

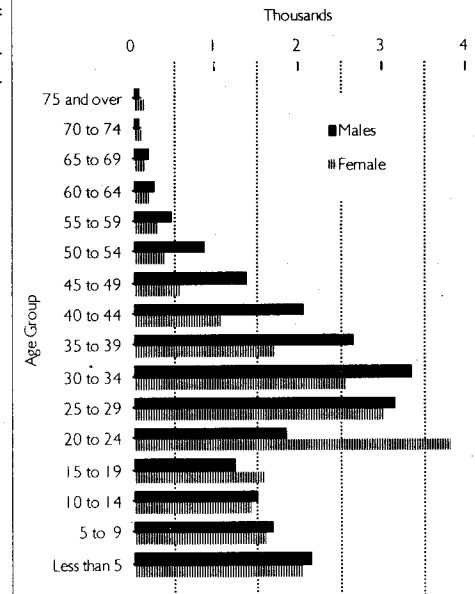
Source: 1973 TTPI Census, Table 4a, PC80-1-B57A, and 1990 CPH-6-CNMI

Places of Population Concentration

In Saipan, places of population concentration shifted between 1980 and 1990. In 1980, Garapan had over 27 percent of Saipan's total population and Chalan Kanoa had over 18 percent. By 1990,

- Garapan's population had increased to over 31 percent,
- Chalan Kanoa had almost 9 percent,
- San Antonio-Koblerville area's population increased to almost 20 percent,
- and San Vicente's population increased to almost 17 percent of Saipan's total population.
- In both Rota and Tinian, places of population centers remained the same in 1990 and as in 1980: Songsong and San Jose, respectively.

Figure 1.3 1990 Population By Age Group and Sex



Median Age

The population in the CNMI in 1990 was relatively older, compared to prior census years: the median age in 1990 was 27.4 years, compared to 19.6 years in 1980 and 15.7 in 1970.

The main reason for this shift in the median age was the presence of a large migrant worker population. See page Table 1.14 on page 11 for additional information.

Male-Female Ratio

In 1990, total males outnumbered total females: the male-female ratio in 1990 was 111 males to every 100 females. By age group, however, females outnumbered males in age group 5-9, in age group 15-19, in age group 20-24, and in age group 60-64 years old.

The male-female ratio was lowest in Saipan in age group 20 to 24 years old. In Rota, females outnumbered males only in age group 5-9 and in over 69 years old.

Table 1.5 Age Distribution by Island: 1990

Age Group	Total	Number				Percent			
		Saipan	Rota	Tinian	N. Is.	Saipan	Rota	Tinian	N. Is.
Total	43,345	38,896	2,295	2,118	36	100.0	100.0	100.0	100.0
0 to 4	4,139	3,591	277	263	8	9.2	12.1	12.4	22.2
5 to 9	3,275	2,817	235	219	4	7.2	10.2	10.3	11.1
10 to 14	2,901	2,498	210	190	3	6.4	9.2	9.0	8.3
15 to 19	2,773	2,494	149	127	3	6.4	6.5	6.0	8.3
20 to 24	5,624	5,179	221	220	4	13.3	9.6	10.4	11.1
25 to 29	6,140	5,608	222	307	3	14.4	9.7	14.5	8.3
30 to 34	5,878	5,326	287	258	7	13.7	12.5	12.2	19.4
35 to 39	4,330	3,944	206	179	1	10.1	9.0	8.5	2.8
40 to 44	3,112	2,803	175	134	0	7.2	7.6	6.3	0.0
45 to 49	1,921	1,744	93	82	2	4.5	4.1	3.9	5.6
50 to 54	1,247	1,144	49	53	1	2.9	2.1	2.5	2.8
55 to 59	771	706	46	19	0	1.8	2.0	0.9	0.0
60 to 64	458	390	44	24	0	1.0	1.9	1.1	0.0
65 to 69	349	302	25	22	0	0.8	1.1	1.0	0.0
70 to 74	190	162	24	4	0	0.4	1.0	0.2	0.0
75 and over	237	188	32	17	0	0.5	1.4	0.8	0.0
Median	27.4	27.5	26.4	25.6	20.5	...	...	...	...

Source: 1990 CPH-6-CNMI, Table 6

Table 1.6 Males per 100 Females by Island: 1990

Age Group	Total	1990			
		Saipan	Rota	Tinian	North Is.
Total	111	109	127	131	100
0 to 4	106	106	113	99	167
5 to 9	106	106	99	115	100
10 to 14	106	109	106	78	50
15 to 19	78	75	101	108	50
20 to 24	48	45	103	88	300
25 to 29	104	101	155	148	200
30 to 34	131	128	154	163	400
35 to 39	155	155	131	220	0
40 to 44	191	189	192	244	0
45 to 49	238	239	191	273	100
50 to 54	223	230	188	141	0
55 to 59	153	153	119	280	0
60 to 64	134	131	144	167	0
65 to 69	127	132	178	47	0
70 to 74	81	80	71	300	0
75 and over	54	49	60	112	0

Source: 1990 CPH-6-CNMI, Table 6

Table 1.7 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
<i>Percent</i>	<i>73.5</i>	<i>71.8</i>	<i>87.4</i>	<i>88.5</i>	<i>100.0</i>
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 1.8 Marital Status by Sex: 1980 and 1990

Marital Status	Number		Percent Change	Percent	
	1990	1980	1980 to 1990	1990	1980
Males, 15 yrs & over	17,492	5,384	224.9	100.0	100.0
Never married	5,971	1,888	216.3	34.1	35.1
Now married	10,872	3,257	233.8	62.2	60.5
Separated & divorced	419	111	277.5	2.4	2.1
Widowed	230	128	79.7	1.3	2.4
Females, 15 yrs & over	15,538	4,591	238.4	100.0	100.0
Never married	7,839	1,574	398.0	50.5	34.3
Now married	6,577	2,572	155.7	42.3	56.0
Separated & divorced	504	146	245.2	3.2	3.2
Widowed	618	299	106.7	4.0	6.5

Source: PC80-I-C/D57A, Table 15 and 1990 CPH-6-CNMI, Table 7

Total Households Composition

Of the 31,856 persons who lived in households in 1990, 17 percent were family householders (of these, about 1 of 4 were females); almost 5 percent were nonfamily householders of which 1 of 4 were females; over 12 percent were spouses; over 37 percent were children; about 4 percent grandchildren; less than 1 (.07) percent were parents; about 9 percent were relatives; and interestingly, over 14 percent were persons not related to the household.

Marital Status

Sixty two percent of males were married, while only 42 percent of females were married in 1990. The disparity between the proportion of married males and married females reflected the different age distribution of male and female populations in the Commonwealth in 1990. A greater proportion of females, compared to males, were in age group 20-24 and age group 25-29; while a greater proportion of males were in age group 30-44. Hence, the likelihood of males being married was much higher than that of females.

Table 1.9 Age, Marital Status, and Fertility by Island: 1990

Fertility	Total	Island			
		Saipan	Rota	Tinian	North. Is.
Women 15 to 19	1,558	1,421	74	61	2
Children ever born	251	226	15	10	0
Women ever married	67	61	2	3	1
Children ever born	59	52	4	3	0
Women 20 to 24	3,792	3,565	109	117	1
Children ever born	1,326	1,113	114	97	2
Women ever married	578	510	41	26	1
Children ever born	702	580	73	47	2
Women 25 to 29	3,006	2,794	87	124	1
Children ever born	2,825	2,452	145	224	4
Women ever married	1,290	1,181	50	58	1
Children ever born	2,169	1,926	104	135	4
Women 30 to 34	2,548	2,332	113	98	5
Children ever born	4,466	3,932	266	249	19
Women ever married	1,792	1,649	74	66	3
Children ever born	3,923	3,489	210	215	9
Women 35 to 39	1,695	1,549	89	56	1
Children ever born	4,433	3,947	279	203	4
Women ever married	1,352	1,234	68	49	1
Children ever born	4,106	3,648	256	198	4
Women 40 to 44	1,070	971	60	39	0
Children ever born	3,457	3,079	233	145	0
Women ever married	917	827	56	34	0
Children ever born	3,271	2,908	231	132	0
Women 45 to 49	569	514	32	22	1
Children ever born	2,300	2,056	129	106	9
Women ever married	507	458	27	21	1
Children ever born	2,211	1,970	127	105	9

Source: 1990 CPH-6-CNMI, Table 6

Table 1.10 Total Fertility and Age-Specific Fertility Rates, CNMI: 1980 and 1990

Age Group	1990			1980		
	1986-1990	1981-1985	1976-1980	1976-1980	1971-1975	1966-1970
TFR	4.17	4.26	5.02	4.24	4.90	6.81
15 to 19 years	107	92	117	103	83	94
20 to 24 years	234	232	268	227	241	294
25 to 29 years	216	223	250	208	235	326
30 to 34 years	164	173	184	163	189	269
35 to 39 years	88	92	108	86	139	251
40 to 44 years	23	33	66	42	75	96
45 to 49 years	2	8	12	17	18	32

Source: Levin and Retherford, Recent Fertility Trends in the Pacific Islands, EWPI Papers, Number 101, and unpublished data.

Note: 1990 fertility data are for Chamorros Only.

Table 1.11 Birthplace by Island: 1990

Place of Birth	Total	Island				Northern Islands
		Saipan	Rota	Tinian		
All persons	43,345	38,896	2,295	2,118	36	
Northern Mariana Islands	16,752	14,378	1,278	1,066	30	
Guam	1,122	781	226	115	0	
Palau	1,407	1,361	26	15	5	
FSM	1,817	1,717	39	60	1	
Chuuk	969	953	15	1	0	
Kosrae	29	26	1	2	0	
Pohnpei	542	519	18	4	1	
Yap	273	215	5	53	0	
Marshall Islands	103	99	4	0	0	
Other Pacific Islands	93	86	0	7	0	
Asia	20,610	19,139	658	813	0	
Japan	755	721	18	16	0	
Korea	2,559	2,526	4	29	0	
China	2,707	2,678	21	8	0	
Philippines	13,563	12,236	592	735	0	
Taiwan	38	30	0	8	0	
Vietnam	1	1	0	0	0	
Other Asia	987	947	23	17	0	
United States	1,271	1,175	60	36	0	
California	266	240	18	8	0	
Hawaii	112	105	6	1	0	
Elsewhere	170	160	4	6	0	

Source: 1990 CPH-6-CNMI, Table 9

Total Fertility Rate

Total Fertility Rate for Chamorros declined between 1980 and 1990 from 5.02 to 4.17 children per woman.

Place of Birth

Only 39 percent of population in 1990 were born in the CNMI. The rest, a vast majority, of the population were born outside of the CNMI. Almost half were born in Asian countries (Philippines, Japan, Korea, China, Thailand)—over 38 percent were born in the Philippines alone.

In contrast, in 1980, almost 72 percent of CNMI population were born in the Commonwealth.

This drastic shift in the birthplace of persons in the Commonwealth was more so in Saipan than in Rota and Tinian.

Figure 1.4 Places of Birth in 1980 and 1990

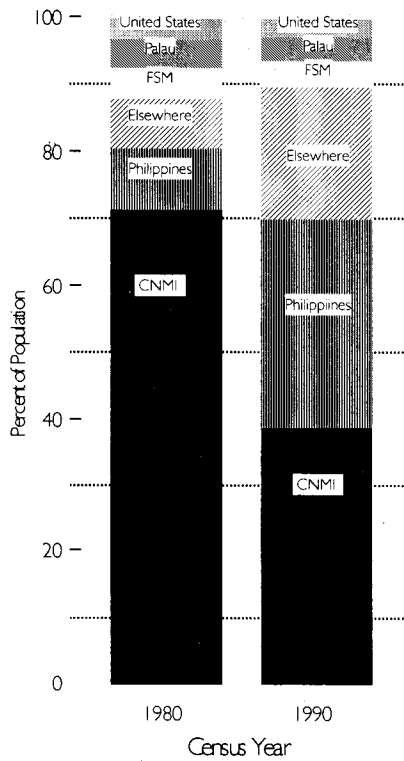


Table 1.12 Selected Places of Birth: 1980 and 1990

Birthplace	Number		Percent Change 1980 to 1990	Percent	
	1990	1980		1990	1980
Total	43,345	16,780	158.3	100.0	100.0
Northern Marianas	16,752	11,993	39.7	38.6	71.5
Philippines	13,563	1,564	767.2	31.3	9.3
FSM	1,817	769	136.3	4.2	4.6
Palau	1,407	659	113.5	3.2	3.9
United States	1,271	553	129.8	2.9	3.3
Elsewhere	8,535	1,242	587.2	19.7	7.4

Source: 1990 CPH-6-CNMI, Table 9

Table 1.13 Place of Birth by Sex: 1990

Birthplace	Number			Percent		
	Total	Males	Females	Total	Males	Females
Total	43,345	22,802	20,543	100.0	100.0	100.0
Northern Marianas	16,752	8,541	8,211	38.6	37.5	40.0
Guam	1,122	546	576	2.6	2.4	2.8
Asia	20,610	11,222	9,388	47.5	49.2	45.7
Philippines	13,563	8,721	4,842	31.3	38.2	23.6
China	2,707	686	2,021	6.2	3.0	9.8
Korea	2,559	977	1,582	5.9	4.3	7.7
United States	1,271	783	488	2.9	3.4	2.4
Palau	1,407	666	741	3.2	2.9	3.6
Marshall Islands	103	44	59	0.2	0.2	0.3
Other Pac. Islanders	93	48	45	0.2	0.2	0.2
Fed. States Micronesia	1,817	875	942	4.2	3.8	4.6
Kosrae	29	15	14	0.1	0.1	0.1
Pohnpei	542	257	285	1.3	1.1	1.4
Chuuk	969	444	525	2.2	1.9	2.6
Yap	273	158	115	0.6	0.7	0.6
Elsewhere	170	77	93	0.4	0.3	0.5

Source: 1990 CPH-6-CNMI, Table 9

Male-Female Proportion by Birthplace

The male-female proportion by birthplace varied in 1990,

- 75% of those born in China were female
- 64% of those born in the Philippines were male
- 62% of those born in Korea were female
- 62% of those born in the U.S were male