

Mike Levin

For
P117
B 12065
1973

1973 POPULATION
OF
TRUST TERRITORY OF THE PACIFIC ISLANDS



Edward E. Johnston
High Commissioner
Trust Territory of the Pacific Islands
Saipan, Mariana Islands 96950

Published By

OFFICE OF CENSUS COORDINATOR

William H. Stewart, Census Coordinator

Tatsuo H. Adachi, Assistant Census Coordinator

Cesar Dumatol, Administrative Assistant

Alan Kay, Health Service Statistical Analyst

in cooperation with

SOUTH PACIFIC COMMISSION

Ko Groenewegen, Demographer

and

East West Population Institute

East West Center, Hawaii

Minja Choe et Michael Levin

Trust Territory Census Committee

Frank Ada, District Administrator, Marianas
Arthur Akina, Director of Personnel
Joe Beadles, Director of Transportation and Communications
Phil Chamberlain, Chief of Planning
Dwight Heine, Special Consultant
Dr. Len Kaufer, Education Department
Dr. Masao Kumangai, Director of Health Services
Patrick Mangar, Public Information Office
James Manke, Chief Public Information Office
Ronald Peterson, Director of Finance
Kaleb Udui, Legislative Counsel, Congress of Micronesia
Raymond Ulochong, Chief, Legislative Liaison
Kozo Yamada, Chief of Lands and Surveys
Strik Yoma, Director of Public Affairs
Wyman X. Zachary, Director of Resources and Development

District Census Supervisors

Jesus R.A. Sonada	Marianas
Milton Zackios & Kunio Lemari	Marshalls
David Williams	Palau
John Andrew	Ponape
Sictus Berdon	Truk
Vincent Untaman	Yap

7176/16

CONTENTS

	Pages
I INTRODUCTION	1
II ADMINISTRATIVE HISTORY AND PROCEDURES	1
III DEFINITIONS AND EXPLANATIONS	3
IV APPENDICES	9
A. COMPLETENESS OF COVERAGE	9
B. UNPUBLISHED MATERIAL	12
C. LIST OF PUBLISHED TABLES	16
D. ABBREVIATIONS	19
E. BASIC TABLES	20
F. MAPS	286
G. QUESTIONNAIRE	

I. INTRODUCTION

Before 1973 there were two main sources of information on population data for the Trust Territory of the Pacific Islands. Both were considered possibly defective. Doubts were felt concerning the reliability of the 1970 Census of Population, particularly because certain municipalities and islands within the Territory with known populations were reported either as uninhabited or as having populations much smaller than had been previously reported. Figures prepared for the Annual Report to the United Nations were also not necessarily accurate. These figures are obtained from the annual returns of the magistrates of each municipality, and since they are not collected in a uniform way (both definitions and procedures vary between Districts), a certain amount of double counts can be suspected.

As reliable population figures were required for various governmental purposes it was decided to conduct a comprehensive Census in 1973. The Census was based upon a plan developed by Ko Groenewegen, Demographer for the South Pacific Commission, and carried out by the High Commissioner's Executive Order 106 and Senate Bill 28 enacted into Law by the Congress of Micronesia. The Census provides data on the population of the Trust Territory as of the night of September 18, 1973.

The Census was mainly designed to obtain complete coverage and accurate data on the geographic distribution of the population. This basic approach is reflected in the Census definition, the enumeration methods and the tabulation program. Information on the social and economic characteristics of the population was also sought but it was not given as much emphasis.

The Census was basically a de facto census : that is, people were counted in the place where they happened to be on Census Night. But information was also collected about the de jure population, or the population by usual residence.

II. ADMINISTRATIVE HISTORY AND PROCEDURES

The Trust Territory of the Pacific Islands (Micronesia) is a vast area composed of more than 2,000 islands and atolls of which approximately 100 are, at one time or another, inhabited. These islands are situated within an area of approximately three million square miles of the Western Pacific Ocean extending from latitude 1°N to 22°N and from longitude 172°E to 130°E (these are approximate co-ordinates). It is important that the reader appreciate the vastness of the area and its remoteness as well as the small size of the islands.

The Census required more than one year's preparation involving some 350 enumerators and the resources of six operating departments of the government. Six District Administrations were involved within which exist nine distinct languages and as many cultures.

At the time the 1973 Census was conducted, the six Administrative Districts were the Mariana Islands District ; Yap and Palau (Western Carolines) ; Truk and Ponape (Senyavin Islands, Eastern Carolines) and the Marshall Islands. Each District consists of a number of islands or «Municipalities». A Municipality may be an entire island or a portion of an island. For Census purposes, Municipalities were divided into one or more «Municipal Districts» (some of which were actual administrative units, e.g. the Municipal Districts of Saipan, Mariana Islands). Also for Census purposes «Enumeration Districts» (E.D.) were established, each of which was equal to or part of a Municipal District. No Enumeration District boundary crossed or bisected another Enumeration District boundary or a Municipal District boundary. Enumeration District boundaries were established by the District Planners. Several of these Enumeration Districts were uninhabited on Census Night. They were established for future planning purposes since it is expected that they will be inhabited by the time the next census occurs.

After the death of Mr L.K. Anderson, the first Census Coordinator, Mr William H. Stewart was appointed at the Trust Territory Headquarters on Saipan to direct the Census. He was directly responsible to the High Commissioner. An interim Census Committee was established whose responsibilities involved review of the plan developed by the South Pacific Commission's Demographer.

The Committee made recommendations concerning additions and modifications to the original plan. It was also concerned with definitions of the population characteristics about which information would be sought in the Census. Membership on this Committee consisted of interested Headquarters staff and representatives from each of the six Districts as well as the Legislative Counsel of the Congress of Micronesia and private business.

The District Administrators each appointed their District Census Supervisors (two were appointed in the Marshalls). Supervisors were trained in census procedures and pilot surveys were conducted in each District to test the questionnaire as well as the Supervisors' knowledge.

After necessary adjustments to the questionnaire and additional training of the Supervisors, their assistants and enumerators were selected, employed and trained. There was one assistant supervisor for every six enumerators. Enumerators were selected for training after a screening examination prepared by Mr Charles Earl of the Department of Personnel.

Comprehensive training programs were conducted in each District using local language training manuals to explain enumeration procedures to all employees. One enumerator was assigned to each Enumeration District in the Trust Territory. The pre-enumeration started two weeks before Census Night. In this period the enumerators visited all households in their E.D.'s and filled in the required information about each person on the questionnaire.

Every Census enumerator carried detailed Census maps depicting Enumeration District, Municipal District and Municipal boundaries for each of the six Trust Territory Districts. Such maps were shown when necessary to help respondents locate their place of residence or home area if these were different from the individual's place of enumeration.

The post-enumeration period took one week following Census Night. It was during these call-back checks at every household that the enumerators checked the status of the household as of Census Night, September 18, 1973. Radio announcements were made to enlist the support of all who might have been missed and to ensure that they contacted the District Census Supervisor. Household questionnaires (Appendix G) were checked at the District level for accuracy and then forwarded to the Census Office on Saipan for further checking and coding.

In order to obtain an impression of the quality of the field work of the enumerators, a Post-Enumeration Survey (P.E.S.) was held shortly after Census Night. The results of this activity throw a favourable light on the Census enumeration. A short description of the Survey is given in Appendix A.

Great care was also taken in the checking and coding phase of the Census to ensure accuracy. The questionnaires were logged in and a careful record kept of the checking and coding history of each E.D. book as it progressed through the work flow process. The books were first checked to determine if the enumerator's record book of household calls corresponded with his detailed map depicting all numbered structures in his assigned E.D. Then each household questionnaire was examined by a trained Census checker. This first checker passed the book to a second checker who again examined the logic of the entries. From that point, the book went to a pre-coder, thence to a pre-code checker and finally to a coder before examination by a code checker.

Census code sheets were then sent to the East-West Population Institute of the East-West Center in Honolulu, Hawaii, for key punching and verifying. Cards with errors which could not be resolved at the Population Institute were returned to Saipan in the form of computerprinted code sheets, and the matter in question was checked against the information which appeared on the particular household questionnaire. After editing the records the computer specialists of the Population Institute read the information on to computer tape and developed the computer program for the specified tabulations. The South Pacific Commission Demographer continued to provide technical assistance at this stage.

III. DEFINITIONS AND EXPLANATIONS

The definitions shown below are only given in an abbreviated form. More detailed information can be obtained from the enumerator's and Supervisor's manuals.

The concepts discussed in this chapter are generally arranged in alphabetical order, but some have been combined in functional groups, e.g. those related to education or to economic questions.

- Area of enumeration** — See De Facto Population.
- Area of usual residence** — See De Jure population and usual residence.
- Armed Forces** — Military and other personnel at Kwajalein Missile Range Facility were not included in the Census (see Table 1A).
- Citizenship** — Enumerators asked all respondents whether they were citizens of the Trust Territory of the Pacific Islands. For Census purposes only, in cases where one parent was a Trust Territory citizen, the parents were allowed to decide the citizenship of their children.
- Date of birth** — The month, day and year of birth was asked of each respondent: People born during the Japanese period of administration were assisted with a Japanese calendar of conversion dates. People who did not know their year of birth were asked to estimate the year either by comparing it with that of friends or relatives with a known year of birth or by recalling a historical event (war, typhoon, etc.) within their memory. They were then asked their approximate age at the time when this event occurred, thus aiding the enumerator in estimating their year of birth. A list of historical events was prepared for each of the six Districts for this purpose.
- De facto population (Present-in-area-population)** — In a de facto census, the people are enumerated in the place where they are physically present on Census Night. The de facto population of the Territory at that point of time would therefore include visitors from overseas, but exclude residents of the country who had temporarily left on an overseas trip.
- Most of the tables in this report show the characteristics of the «de facto population by place of usual residence». This means that the population de facto present in the whole of the Trust Territory on Census Night is given by the place these enumerated people reported as their usual abode. This place may be the subdivision where the persons were actually enumerated, but could be another District in the Trust Territory or a country outside the Territory.
- Some of the published tables show the de facto population of the Trust Territory by place of enumeration (Basic Table 1A), by home area (Basic Tables 1A, 9 and 10) or by place of birth (Basic Tables 6, 7 and 8). These tables provide an insight into the short-term and the life-time net movement of the population.
- De jure population (usually resident population)** — In a de jure census the people are enumerated in the place where they normally live and eat regardless of whether they were actually there on Census Night or not. The de jure population of the whole of the Trust Territory at that point of time would therefore exclude the visitors from overseas and include the usual residents of the Territory who had temporarily left the country. The de jure population of the Territory is given in Basic Table 1B by the reported District or District center of usual residence and by the reported home District center of residents. Information on the place of usual residence and the home area of the people who were present in their usual place of residen-

ce was easily found from the Census returns, but information on the home area of the temporarily absent de jure people was not specifically asked on the questionnaire. It was estimated by assuming that the home area of the absent person was equal to that of the head of the household where that person was reported absent.

District center and sub-district center

- An urban-rural classification in a strict (western) sense of population size, function and density is not very practical for the islands of Micronesia. But it can be expected that people living in District centers who have direct access to and utilization of the cash economy and certain modern conveniences and public services will have characteristics different from those of the people living in their traditional environment. In order to show these differences - if any - District center and sub-district center population are distinguished in several of the published tables. These centers have been designated according to a combination of lifestyle-related criteria including the presence or absence of District and sub-district government administrative offices, hospitals and high schools, concentration of stores, industry, salaried wage earners, public utilities (water-electricity), post offices, roads and cars, airfields, harbors, etc. The centers are geographically defined by the following details :

District	District center	E.D. Nos.
Mariana Islands	Entire island of Saipan	004-040
Marshall Islands	DUD portion of Majuro	018-032
Palau	Entire area of Koror	006-029
Ponape	Kolonia	059-068
	Portion of Sokehs Islands	049-050
		-052
	Nanpohnmall area of Nett	055
Truk	Entire Island of Moen	001-016
Yap	Colonia (Villages of Keng Nimar, and Mulro in Weloy Municipality ; Villages of Worowo, Balebat, Benik, and Ngolog in Rull Municipality)	009-014
	Sub-district centers	
Mariana Islands	Songsong vuage on Rota	043-047
Marshall Islands	Entire island of Ebeye	076-089
Ponape	Lele Municipality of Kusaie	004-007

**Economic questions
Hours worked**

: In answering this question, each respondent was asked «Did you do any work last week ? » Work included all activities that people engage in to support themselves and their families, or to earn spending-money. Included here is labor involved in gathering or growing food for own consumption ; labor on village community development clean-up or building projects ; work for wages or salary regardless of the length of time ; work for tips or commissions ; active duty in the armed forces ; work in own private business or firm ; unpaid work for a relative ; and part-time work for money. Not counted as work was work done as a housewife ; study performed at any level of schooling ; repairs to one's own house ; work done for charity, volunteer work, work done by an inmate of a prison.

Persons indicating that they worked some portion of the period one week prior to Census were asked to estimate the numbers of hours worked during that period. People who performed more than one type of work during the week were asked to add up all hours worked. Respondents who were sick or on vacation in the week prior to Census Night were asked the number of hours they would normally have worked if not sick or on vacation.

Not working

: Respondents who were not working during the week prior to the Census were included in this group. The following categories were distinguished :

- a) Unemployed – refers to anyone who is ready, willing and able to work, but cannot find work. A person who was looking for a job one week prior to the Census, regardless whether he ever worked before or not, was included in this category. Any person who did not look for work because there were no jobs available was also considered unemployed if he had applied to the employment service and the government personnel office in the District center and still could not find employment.

The number of unemployed reported by the enumerators is very high. It is possible that this question was not fully understood by them or by the respondents. It may be that the «unemployed» of Table 17A and following tables also include people who were not actually looking for paid work, but just were not active in the week before the Census. Copra-makers, for instance, often work on an irregular schedule which is related to the limited shipping movements. A proportion of these copra-makers may have been «resting» in the week before the Census and been reported as unemployed although not strictly being without work. One must assume that the reported unemployed partly consist of underemployed.

- b) Economically not active people – to this group belong people of the following categories :

- 1) Housewives (home-makers) – these are individuals who care for their children, cook food for the family and care for the family home.
- 2) Students – these are persons who attend an educational institution on a full-time basis.
- 3) Retired persons or those living on social security benefits, revenues of capital or other income recipients.
- 4) Other – groups 3 and 4 comprise people who might have wanted to work but were unable to do so, because of disability, being prison inmates, etc.

Working in village economy

: A person was considered at work in the village economy when that person mainly produced goods for his/her own or family's use and needs. The person might sell some of these goods (copra, handicrafts, other) for cash as a supplementary income. The respondent was given six options (growing food, fishing, copra, livestock, handicrafts, other) for which one option was selected as the main activity in terms of hours spent on the endeavor. The question referred to the work activity for the week prior to the Census. A person who spent part of his working time during the last week before the Census in village work and part of the time in money-earning work (see Money economy), was assigned to either village economy or money economy depending upon the sector in which the most time was spent. Students working part-time were not included in this category.

Working in money economy

: A respondent was considered to participate in the money economy when engaged in activities designed to earn cash income, such as work performed for wages or salaries or work undertaken for his/her own business or profession. Such people were considered employed if they worked during a portion of the week prior to the Census. Respondents growing food, fishing, cutting copra or making handicrafts on a commercial basis or for wages were considered as participants in the money economy, even if the activities took place in a village. Students with part-time jobs were not included in this category.

Occupation

: Respondents who indicated that they were employed in the money economy were asked their occupation. Occupation titles were taken from the three-digit International Labor Organization classifications, as well as the Trust Territory Government's list of occupations, the latter applying only to individuals employed by the government. Respondents unemployed at the time of the Census were asked for their occupation when employed. Those people employed in two or more money-earning jobs in the week prior to the Census were asked to state the occupation in which the most time was spent.

Status

: This term refers to the position the respondent had when performing a job in the money economy. If a person worked under two or more status categories, he was asked to state that status in which most of his time was spent one week prior to the Census. The various classifications were :

- a) Employer — a head of a private business or store who employs one or more persons ; the owner of a farm, fishing boat or some other income-producing asset requiring the employment of other persons. A manager would not be included in this category.
- b) Self-employed — this applies to a person working independently in various trades, businesses and income-producing occupations who is not an employee and does not have a staff of employees. He might, however, be the owner of a business or a store in which his family works.
- c) Wage/Salary Earner, Government — an individual employed by a Trust Territory District Municipality, Village, Government or United States Government Agency such as the Post Office, Coast Guard, Peace Corps, Community Action Agency, etc.
- d) Wage/Salary Earner, Private — an employee of any business, co-operative, credit union, etc., where work is performed in exchange for money.
- e) Unpaid family worker— a person working in a family business, store, farm, etc., who is a member of the family but not the head of the business.
- f) Other — respondents involved in miscellaneous work not included in the above.

Education

Attendance and level

: Respondents indicating that they were full-time students at the time of the Census, were asked the type of school they were attending, i.e. Kindergarten, Headstart, Elementary or High School, College. Students attending other

fulltime institutions, such as the Micronesian Occupational Center, the Micronesian Maritime Center, etc., were included in the «other» category.

Grade : The grade in school was indicated, i.e., first-graders «1», third-graders «3», etc. For college students or those in «other» schools, the correct grade in such schools was indicated. For example, first year in college was shown as «1», second year at the Micronesian Occupational Center was indicated as «2».

Respondents who indicated that they were not in school at the time of the Census were asked whether they ever attended school, and if so, the kind of school attended. They were asked the grade they were in when they left school, and this was recorded as described in the previous paragraph. For individuals attending schools during the period of Japanese administration of the islands, the following grade levels applied :

- a) Native school (Ko Gakko) - considered as grades 1, 2 and 3.
- b) Extra school (Hoschu Ka) - considered as grades 4 and 5.
- c) Trade school (Mok Ko) - considered as grades 6 and 7.
- d) Extra trade school - 1 year was considered as grade 8.

Family unit - Family units were based upon the concept of a conjugal family nucleus which could consist of the following combinations : a married couple without children ; a married couple with one or more never-married children ; or one parent with one or more unmarried children. A person living alone in a household was also considered as a family unit.

Geographic subdivisions - For Census enumeration purposes, the Trust Territory was broken down into the following divisions :

Districts : These consist of the six major Districts of the Trust Territory which are (1) Mariana Islands ; (2) Marshall Islands ; (3) Palau ; (4) Ponape ; (5) Truk ; (6) Yap.

Municipalities : These include chartered and un-chartered political subdivisions within each District, each with its own magistrate and municipal council.

Municipal Districts : These are subdivisions of Municipalities and may consist of current political subdivisions such as exist in the Marianas or of subdivisions either by sections or by major villages. For Census purposes, where they did not exist, they were artificially established.

Enumeration Districts : These are smaller subdivisions established for Census taking only. They were based on the area an enumerator could cover in the time available. A Municipal District may consist of one or more Enumeration Districts. An Enumeration District may consist of a Municipal District, or even a Municipality, depending upon the density of the population involved.

Home area - This is the place which the respondent considers as his Home Area. If not in his home area at the time of the Census, it is the place to which he plans eventual-

ly to return. It can be the area where his clan and relations live or originate from, or where they have land rights.

Households

- A household is defined as a group of people who normally live together and share their meals. There are two types of households, private and group.
 - a) A private household is defined as a person living alone ; a single complete family (consisting of a father, mother and unmarried children) or a single incomplete family (i.e. consisting of a father and mother only, or a father with unmarried children only, or a mother with unmarried children only); a single complete or incomplete family as described above with additional relatives and/or less than six unrelated persons who are usual residents of the household ; two or more complete or incomplete families as described above who live and eat together ; two or more complete or incomplete families as described above with additional relatives and/or less than six unrelated persons who are usual residents of the household ; a group of unmarried relatives and/or a group of less than six unrelated persons.
 - b) A group household is a group of people who usually live together and share food for other reasons than family relationships such as patients in a hospital, nurses in a nurses' home, students in a dormitory, ship's crew, hotel guests, etc.

Marital status

- a) Married – two persons of different sex living together as man and woman in a legal or common-law marriage were considered «married».
- b) Widowed – defined as a person whose legal or common-law spouse had died and who had not remarried.
- c) Divorced/Separated – if two persons had formally lived together in legal or common-law marriage but were parted at the time of the Census each partner was indicated as being divorced/separated, whether the separation was legally recognized or not.
- d) Never married – persons who never married legally or by common-law and those whose marriage was annulled were indicated as never married.

Motherhood (Issue)

- Every woman born in 1959 and before was asked whether she had even given birth to a live-born child and if so, how many boys and girls she had borne, child and if so, how many boys and girls she had borne, and how many were still alive at Census Night. It was emphasized to the enumerators that own children living away from home should be included in this list and that foster and adopted children should be excluded.

Every woman in the stated age range was also asked the date of birth of her last live-born child. If the year, month and day were not known, the year of birth was estimated. The woman also had to state the sex of this last-born child and had to report whether it was still alive at Census Night.

For proper understanding of the published tabulations, it should be pointed out that some women did not make a statement on the number of children they had given birth to, but did report information on the last-born child. They are therefore also included in the group of women who attained «motherhood».

- Place of birth** – This is the location in which a person was born in the Trust Territory, unless an individual was born in a district hospital, in which case the municipality of the usual residence of the mother at the time of birth was indicated. For persons born outside the Trust Territory the country of birth was indicated.
- Religion** – Response to this question was not compulsory.
- Resident population** – This term was used in earlier Government publications about the Census to describe the population classified in this report as «de facto population by usual place of residence» (see De Facto population).
- Usual residence** – This is the place where a person usually lives and eats regardless of whether he/she was there on Census Night or not.
- Members of the armed forces were counted as usual residents of the place where they were stationed. Students attending school or college within the Trust Territory were considered as usual residents of the place where they lived while attending school, but those attending schools and colleges outside the Trust Territory were counted as absent residents of the house of the parents. Persons in institutions where inmates usually remain for a considerable period of time were counted as usual residents (i.e. homes or schools for the handicapped, members of religious orders in a mission, student and trained nurses in nurses' homes).

IV. APPENDICES

APPENDIX A : COMPLETENESS OF COVERAGE

1. Census information

On the Census questionnaire of each household three types of people were distinguished:

- (i) people who usually lived in that household and were present there on Census Night ; these were designated as «Resident Present» persons (abbreviated as R.P.) ;
- (ii) people who were visiting that household on Census Night and whose usual residence was elsewhere : these were called «Non-Resident Temporarily Present» persons (abbreviated as N.R.T.P.) ;
- (iii) people who were normally living in that household, but happened to be absent on Census Night ; these were classified «Residents Temporarily Absent» (abbreviated as R.T.A.).

The place of enumeration was directly known for the R.P. and N.R.T.P. people because the Census was basically a de facto one. Information on district of enumeration was also collected for the R.T.A. people, as the heads of households reporting R.T.A. persons in their households were asked to state the whereabouts of the absentees on Census Night.

The place of usual residence was directly known for the R.P. and R.T.A. persons from the questionnaires. The same information was also obtained (down to the E.D. level) for N.R.T.P. people by the special questions that were included on the questionnaire for that purpose.

All this information was collected to help the enumerators in obtaining a full enumeration of all people in their E.D.'s and also to help the Census Office in judging the completeness of the Census coverage.

The assumption was that unless whole households were missed, there would be relatively little chance that the R.P. people, being resident and present on Census Night, would be omitted or double counted. The chances of omissions or double counts of the more floating, temporarily present or absent N.R.T.P. and R.T.A. people were considered to be much greater.

In theory, the people enumerated as visitors in one place should also have been reported as absent residents in another place and vice versa. In practice, one will not find a perfect match between these two groups, even if the influence of international movements is eliminated. A person reported as a visitor in

one household may not have been considered as an absentee in the household he claimed as a residence, or alternatively a person reported as an absentee may not have been found as a visitor elsewhere. It can also be expected, especially under Micronesian conditions, that people who reported themselves as present residents were also reported as temporarily absent in other households, e.g. : children who had already been working in the District center for half a year or more, but were still considered by their parents living on one of the outer islands as members of their household. Ideally, such problems could be solved by matching of individuals using manual or computer matching techniques, but Micronesian customs do not favour this method. It is, for instance, quite common for Micronesians to have several different names depending on who is talking to or about them.

In the Text-Table, a comparison is made between the N.R.T.P. people ordered by their reported District of usual residence and the R.T.A. people ordered by the District where they were reported as absent residents. In the case of full and correct enumeration, the figures for each District should have been the same. In fact, there is a fair correspondence for the Mariana Islands and Palau, but in other Districts, considerable discrepancies are found, the N.R.T.P. figures always being smaller than the R.T.A. ones.

Text-Table. Non-Resident Temporarily Present population and Resident Temporarily Absent population by District of usual residence.

District	N.R.T.P.			R.T.A.		
	M	F	P	M	F	P
Mariana Islands	87	54	141	108	79	187
Marshall Islands	121	86	207	336	269	605
Palau	214	215	429	324	248	572
Ponape	136	129	265	736	605	1,341
Truk	171	136	307	366	297	663
Yap	59	72	131	338	270	608
Trust Terr. N.S.	199	1	200	-	-	-
TOTAL	987	693	1,680	2,208	1,768	3,976

If one assumed that the R.T.A. population is correctly reported and that the aforementioned differences were all caused by under-enumeration of visitors, the total de facto population of the Trust Territory would be under-reported by 2,300 persons or about two percent. This rate would be small in the Marianas and Palau, but would reach six percent in Yap. Given Micronesian customs, it is however likely that the discrepancies of the Text-Table are partly caused by relative over-reporting of R.T.A. people. There were doubtless a fair number of people who were enumerated as R.T.A. in one household and at the same time as R.P. in another household. In this connection, it is interesting to note that in the Post-Enumeration Survey (see next section), the number of discrepancies between the results of the Census enumerator and the P.E.S. enumerator was four times larger for R.T.A. persons than for visitors. This is a clear sign that the concept caused difficulties for enumerators and respondents.

If it is then conservatively assumed that half of the discrepancies shown in the Text-Table were caused by an under-enumeration of visitors and half by an over-reporting of R.T.A. people, a percentage of under-reporting of one percent among the de facto population as a result of missed «not at usual residence» people must be accepted. To this must be added the balance of missed and double-counted R.P. people. This number is probably not great. If the Post-Enumeration Survey is a good guide, it should not be more than twice the number of missed visitors. This brings the possible level of under-enumeration of the de facto population to not more than three percent, a figure which is confirmed by the Post-Enumeration Survey and which is quite acceptable in the light of census experience elsewhere in the world. Much more study must be given to this point, however, in order to refine this first rough estimate.

2. Post-Enumeration Survey

A Post-Enumeration Survey (P.E.S.) was carried out in the Territory to obtain an impression of the accuracy of the work of the enumerators. Ideally, this survey should have been conducted on the basis of strict sampling techniques but, in the case of the Trust Territory Census, a host of factors made it necessary to aim for a more practical solution.

Sound sampling practices would have given each household or person in the enumeration area the same chance of being selected for inclusion in the survey. This principle had to be dropped because extreme difficulties in communications necessitated the exclusion of persons living in inaccessible areas from the sample frame. The Northern Islands of the Mariana Islands ; the islands other than Majuro (DUD), Majuro (Laura), Arno and Ebeye in the Marshall Islands ; the islands Pulo Anna, Sonsorol and Tobi in Palau District ; the islands other than Kusaie and Ponape in Ponape District ; those other than Truk atoll in Truk District and other than Yap Island in Yap District were considered as inaccessible and therefore not included in the sample frame. Their populations constitute about 20 per cent of the total Trust Territory population.

For practical reasons, it was also necessary to select households in large clusters instead of on an individual basis. In each District a number of Enumeration Districts (E.D.) were selected out of the total number of accessible E.D.'s in a ratio of about one in eleven. In the Mariana Islands, Marshall Islands and Palau District, four E.D.'s were selected, in Ponape and Truk six and in Yap two. Within each selected E.D. the P.E.S. enumerators enumerated either all households with an even number or those with an odd number. Thus, slightly more than four thousand persons were included in the Survey, constituting 4.3 percent of the «accessible» population (ranging from 3.3 percent in Ponape to 6.0 percent in Marshall Islands).

The Survey was carried out by assistant supervisors, who were told to do their enumeration completely independently of that of the Census enumerators. Although the assistant supervisors generally had better qualifications than the Census enumerators they did not have more documentary data. They also had the disadvantage of not visiting the households until one to two weeks after Census Night (September 18) by which time the situation there might have changed. The results of the Survey are therefore not necessarily better than those of the Census. They provide a good «second opinion», not a fully objective yardstick.

The individuals enumerated in each household by the P.E.S. enumerators were matched with those reported there by the Census enumerator. When only de facto population was taken into consideration, it was found that the Census enumerators «omitted» 28 persons and «added» 60 persons compared with the P.E.S. enumerators. These persons constitute 0.7 and 1.5 percent of the de facto population respectively. It is possible that these percentages are over-inflated in that a more detailed search might have explained more of the discrepancies between the Census and the P.E.S. data. At the same time it should be realized that some persons may have been omitted or double counted in both P.E.S. and Census.

If it is assumed that the 28 and 60 persons shown above constitute the actual errors of enumeration in the sample areas, the error rate in coverage would be 2.2 percent. Because of the use of sampling techniques, one must allow for sampling error and this means that the coverage error in the Trust Territory as a whole has to be estimated in the range of 1.5 to 3 percent.

As the Post-Enumeration Survey was mainly meant as a check on the completeness of the enumeration, the P.E.S. enumerators asked the respondents only those questions which were strictly required for the identification of persons. However, comparison of the two sources of data regarding some of these characteristics can be made and gives the following results :

- (a) Sex : Out of all cases in which a sex statement was made in both P.E.S. and Census Enumerations, 33 proved to be different. This means a discrepancy of 0.8 per cent.
- (b) Year of Birth : P.E.S. and Census enumerators differed in their statements regarding they year of birth of 205 persons (i.e. in 5 per cent of all cases for which statements from both sources are available). For about half of these the difference was not more than one year : for one quarter the difference exceeded nine years.
- (c) Home Area : Differences were found in the reported home areas for 161 persons (i.e. approximately 4.5 per cent of all cases for which statements from both sources are available). However, the discrepancy exceeded the District boundaries for only one quarter of these.

APPENDIX B: UNPUBLISHED MATERIALS

1. Maps

District Census maps depicting Municipal and Municipal District boundaries as well as detailed Enumeration District maps showing the location of all structures may be examined in the libraries of the following organizations :

Headquarters, Trust Territory Government
Saipan, Mariana Islands, 96950 (Via USA).

South Pacific Commission
B.P. D. 5
Noumea Cedex, New Caledonia.

United States Department of Commerce
Bureau of the Census
Washington, D.C., 20233.

East-West Population Institute
East-West Center
Honolulu, Hawaii, 96822.

Bernice P. Bishop Museum
P.O. Box 6037
Honolulu, Hawaii, 96818.

2. Unpublished tables

A number of computer tabulations (see below) could not be included in this report. With the approval of the Office of the High Commissioner of the Trust Territory they can be inspected at Headquarters in Saipan, at the South Pacific Commission in Noumea, or at the East-West Population Institute in Honolulu. This Institute also holds a copy of the Census tapes in its Data Bank.

a) NFP series

Table 1(1) : (i) Population by Place of Enumeration. Separate for All Persons and T.T.P.I. Citizens (at E.D. level)

(ii) Residence Tabulation. Separate for All Persons and T.T.P.I. Citizens (at E.D. level)

(iii) Home Area Tabulation. Separate for All Persons and T.T.P.I. Citizens (at E.D. level)

(iv) De Jure Population by Place of Residence (at E.D. level)

Table 2 : R.T.A. Population by Place of Usual Residence (at E.D. level) and Reported District of Whereabouts on Census Night, by Sex, Citizenship and Student Status.

Table 3 : N.R.T.P. Population by Place of Enumeration (at E.D. level) and Place of Residence and Sex. Separate for All Persons and T.T.P.I. Citizens.

Table 4 : (i) R.T.A. Population by District of Whereabouts, Sex, Broad Age Groups and Between-District Moves

(ii) R.T.A. Population by District of Usual Residence, Sex, Broad Age Groups and Between-District Moves

(1) Tables 1 (i), (ii), (iii) and 2 are also available for T.T.P.I. citizens of voting age (as per 5 November 1974) only.

(iii) N.R.T.P. Population by District of Enumeration, Sex, Broad Age Groups and Between-District Moves

(iv) N.R.T.P. Population by District of Usual Residence, Sex, Broad Age Groups and Between-District Moves

(v) R.P. Population by District and District Center of Usual Residence, Sex, Broad Age Groups and Between-District Moves.

- Table 5 : De Facto Population by District of Usual Residence, Year of Birth, Age in Single Years and Sex. Separate for All Persons and T.T.P.I. Citizens
- Table 6 : De Facto Population by Municipality of Usual Residence, Sex, Age Groups and Marital Status
- Table 7(2) : De Facto Population Aged 0-19 Years by Municipality of Usual Residence, Sex and Single Years of Age. Separate for All Persons and T.T.P.I. Citizens
- Table 8 : De Facto Population by Municipality of Usual Residence and Sex classified according to Coincidence with Municipality of Birth and Home Municipality
- Table 9 : De Facto Population Aged 14 Years and Older, Enumeration District of Usual Residence, Sex and Economic Activity
- Table 10 : De Facto Population Aged 15 Years and Older and Working in the Village Economy by District and District Center of Usual Residence, according to Sex, Hours Worked and Main Activity

b) Unpublished Basic Tables

- Table 4A(3): De Facto Population by Municipality of Usual Residence, Sex, and Five-Year Age Group. Non-T.T.P.I. Citizens
- Table 4B : De Facto Population by District Center of Usual Residence, Sex, and Five-Year Age Group. Non-T.T.P.I. Citizens
- Table 5 : De Facto Population by District Center of Usual Residence, Sex, Five-Year Age Group and Marital Status. Non-T.T.P.I. Citizens
- Table 7 : T.T.P.I.-Born De Facto Population by Sex, according to Municipality of Birth and District of Usual Residence. Population Aged 15 and Older
- Table 8(3) : T.T.P.I.-Born De Facto Population by Sex, according to Municipality of Usual Residence and District of Birth. Population Aged 15 and Older
- Table 10(3): T.T.P.I.-Born De Facto Population by Sex, according to Municipality of Usual Residence and Home District. Population Aged 15 and Older
- Table 14 : De Facto Population Aged 4 to 25 Years, and Attending Elementary School, by District Center of Usual Residence, Sex, Age and Grade

(2) Also available by Municipal District for Municipalities having more than 2,000 inhabitants.

(3) See footnote (2).

- Table 15 : De Facto Population Aged 12 to 30 Years Attending High School, by District Center of Usual Residence, Sex, Age and Grade
- Table 18 : De Facto Population Aged 15 Years and Over and Not Economically Active, by District Center of Usual Residence, Sex, Age Group and Category
- Table 19 : De Facto Population Aged 15 Years and Over and Working in the Village Economy, by District Center of Usual Residence, according to Sex, Age Group and Main Activity
- Table 20 : De Facto Population Aged 15 Years and Over and Employed in the Money Economy by District Center of Usual Residence according to Sex, Age Group and Status. All Persons
- Table 24 : De Facto Population Aged 15 Years and Over and Employed in the Money Economy, by District of Usual Residence, Sex and Occupation (in Unit Groups). All Persons
- Table 27 : De Facto Women Aged 15 Years and Over who ever Attained Motherhood by Age Group of these Women, the Time Interval since the Birth of the Last Child and its Sex. All Females
- Table 28 : De Facto Women Aged 15 Years and Over who ever Attained Motherhood by Age Group of these Women and the Time Interval since the Surviving Last-Born Child and its Sex. All Females
- Table 29 : De Facto Women Aged 15 Years and Over who ever Attained Motherhood by District Center of Usual Residence, according to Interval since Birth of Last Child and Vital Status of that Child. All Females
- Table 30 : De Facto Women Aged 15 to 50 Years, who ever Attained Motherhood and whose Last Child was Born less than 2 Years ago, by District Center of Usual Residence, Age Group of the Women, Vital Status and Sex of Last-Born Child. All Females

Record listing of Children Born 1970-73 showing their Municipality of Birth, Date of Birth, Sex, E.D. and Household Number and (abbreviated) Mothers' Names.

APPENDIX C : LIST OF PUBLISHED TABLES

	pages
1. Size and Distribution of Population	
Table 1a : Households and De Facto Population by Sex, and by District and District Center of Enumeration, Residence and Home Area. Separate for All Persons and T.T.P.I. Citizens	20
Table 1 B : De Jure Population by Sex, District and District Center of Usual Residence and Home Area	22
Table 1C : Density of De Facto Population by District and District Center of Usual Residence	23
Table 2 : Households and De Facto Population by Enumeration District of Usual Residence, Sex and Citizenship	24
2. Sex and Age Composition	
Table 3 : De Facto Population by District of Usual Residence, Sex and Single Years of Age	38
Table 4A : De Facto Population by Municipality of Usual Residence, Sex and Five-Year Age Group. Separate for All Persons and T.T.P.I. Citizens	41
Table 4B : De Facto Population by District Center of Usual Residence, Sex and Five-Year Age Group. Separate for All Persons and T.T.P.I. Citizens	65
Table 5 : De Facto Population by District and District Center of Usual Residence, Sex, Five-Year Age Group and Marital Status. Districts separate for T.T.P.I. Citizens and Non-T.T.P.I. Citizens ; District Centers T.T.P.I. Citizens only	69
3. Birth and Home Area	
Table 6 : De Facto Population by Sex, Five-Year Age Group and Area of Birth. Separate for T.T.P.I. Citizens and Non-T.T.P.I. Citizens	84
Table 7 : T.T.P.I.-Born De Facto Population by Sex, according to Municipality of Birth and District of Usual Residence	100
Table 8 : T.T.P.I.-Born De Facto Population by Sex, according to Municipality of Usual Residence and District of Birth	109
Table 9 : De Facto Population by Home Municipality, Sex and Five-Year Age Group	117
Table 10 : T.T.P.I.-Born De Facto Population, by Sex, according to Municipality of Usual Residence and Home District	127

4. Social Characteristics	pages
Table 11 : De Facto Population, by Municipality of Usual Residence, Sex and Religion. Separate for All Persons and Persons 15 Years and Over	135
Table 12A : De Facto Population Aged 4 to 30 Years by District of Usual Residence and Sex, Classified according to Single Year of Age and School Attendance	144
Table 12B : De Facto Population Aged 4 to 30 Years by District Center of Residence and Sex Classified according to Single Year of Age and School Attendance	147
Table 13 : De Facto Population Aged 4 to 30 Years by Municipality of Usual Residence, Sex, School Attendance and Level of Education	150
Table 14 : De Facto Population Aged 4 to 25 Years of Age, and Attending Elementary School, by District of Usual Residence, Sex, Age and Grade	159
Table 15 : De Facto Population Aged 4 to 30 Years by District Center of Residence and Sex Classified according to Single Year of Age and School Attendance	166
Table 16 : De Facto Population Aged 12 Years and Over and Not Attending School, College, or Other Post-Secondary Training, by District and District Center of Residence, Sex, Age Group and Educational Attainment. Separate for Males and Females in Districts and in District Centers	169
5. Economic Characteristics	
Table 17A : De Facto Population Aged 14 Years and Over by District and District Center of Usual Residence according to Sex, Age Group, Economic Activity and Hours Worked. Separate for Males and Females in Districts and in District Centers	197
Table 17B : De Facto Population Aged 15 Years and Over, and Not Attending School, College or Post-Secondary Training by District and District Center of Usual Residence, according to Sex, Economic Activity and Education Level Attained. Separate for Districts and District Centers	213
Table 18 : De Facto Population Aged 15 Years and Over and Not Economically Active by District of Usual Residence, Sex, Age Group and Category	219
Table 19 : De Facto Population Aged 15 Years and Over and Working in the Village Economy, by District of Usual Residence, according to Sex, Age Group and Main Activity	221
Table 20 : De Facto Population Aged 15 Years and Over and Employed in the Money-Earning Economy by District and District Center of Usual Residence according to Sex, Age Group and Status. Separate for All Persons and T.T.P.I Citizens in Districts and T.T.P.I. Citizens in District Centers	223