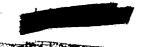
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TRUST TERRITORY OF THE PACIFIC ISLANDS

FIVE YEAR COMPREHENSIVE HEALTH PLAN

February, 1979



CHAPTER FOUR

VI. DEMOGRAPHY

A. Population Size:

Table IV-2 shows the number of TTPI citizens residing in each district of the Trust Territory, and indicates what percentage of the total Micronesian population they represent. Truk has the TTPI's largest population, followed in order of size by the Marshalls, Ponape, Palau, Yap and Kosrae.

District ·	Population	Percent of Tota TTPI Population
Kosrae	3,989	3.9
Marshalls	25,045	25.2
Palau	12,673	12.6
Ponape	19,263	19.1
Truk	31,609	31.3
Yap	7,870	7.8
	OTALS 100,918	. 99.9

Source: OPS Bulletin of Statistics 12/77

*Excluding those individuals of unspecified place
of residence and citizens of foreign nations including the U.S.

B. Age Distribution:

Table IV-3shows the percentage of each district's population according to age groups. The youthful character of Micronesia's population is clearly evident; in 1973 approximately 47% of the population was under fourteen years of age. Conversely, less than ten percent of all Microne-° sians were older than fifty-five years.

TABLE IV-3 POPULATION OF THE TRUST TERRITORY AND THE

NORTHERN MARIANAS BY AGE AND SEX, 1973 - all persons, percentages

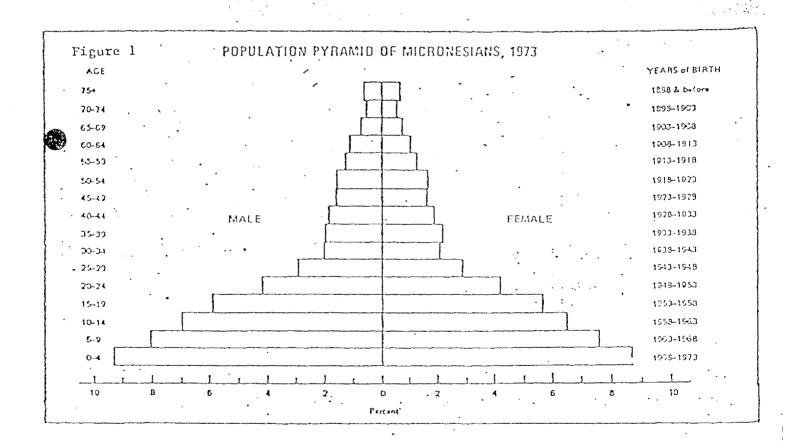
(De Facto Population by District of usual residence)

District	7	Total	rltory		Kosrae		,	arshal	15	,	al au		,	on age			Truk			Yap			inern ianas	
Froup												female						Female	Total			16:0	Hale	female
0-4	18.1	18.5																	15.5	15.9	15.0	16.9	16.5	17.1
5-9	15.6																		14.0	14.2	13.9	15.3	15.1	15.6
10-14	13.4					12.1						14.5							12.8	13.4	12.2	13.4	13.3	13.5
15-19	11.5	11.6	11.4	11.5	11.0	11.0	11.3	11.0	11.7	12.3	12.6	11.9	11.3	11.5	11.1	11.2	11.5	10.9	11.0	10.3	11.7	11.4	10.4	12.6
20-24	8.3	8.3	8.3	7.4	6,4	8.6	B.5	8.7	8.3	8.5	9.4	7.6	8.1	8.1	8.7	8.4	8.0	8.8	8.0	7.9	8.0	8.8	. 7.3	9.8
5-29	5.7	5.6	5.8	6.1	5.5	6.4	6.4	6.3	6.6	5.7	6.1		4.9	4.7	5.0	6.1	6.0	6.3	5.6	6.0	5.2	6.9	7.2	
30-34	4.0		4.2	4.4	4.1	4.6	4.2	4.6	3.9	14.4	4,4	4.4	4.1	J.5	4.3		4.1	4.2	4.5	4.1	5.0	5.3	6.1	
35-39	4.2	4.0	4.4	4.3	4.2	4.3	3.7	3.7	3.7	4.2	4.1	4.2	4.2	4.0	4.3	4.6	4.3	5.0	4.9	4.7	5.0	5.0	5.5	4.4
10-11	3.8	3.8	3.7	3.9	3.9	4.0	3.4	3.6	3.1	3.5	3.4	3.6	4.0	3.9	4.1	3.9	4.1	3.8	4.6	4.6	4.6	4.2	2.8	3.5
45-49	10.3	3.1	3.5	2.6	2,1	3.1	3.1	3.0	3.2	3.5	٥, ر	3.9	3.6	3.6	3.6	3.3	3.1	3.5	13.7	3.6	3.9	3.1	3.7	2.5
50-54	3.3	3.2	3.5	2.8	3.0	₹,6	3.0	2.9	3.0	13.3	3.5		3.7	3.1	4.0	3.3	3.2	3.4	4.2	3.7	4.5	2.9	3.1	2.8
55-59	2.6	2.5	2.6	1.5	1.7	1.3	2.5	2.7	2.6	2.9	2.6	3.1	2.7	2.9	2.5	2.3	2.1	2.4	3.2	3.4	1.9	2.3	2.1	2.5
60-64	2.1	2.2	2.2	1.6	1.6	1.5	2.1	2.1	2.1	1.7	1.6	1.8	2.0	2.1	1.9	2.6	7.6	2.5	2.6	2.6	2.5	1.9	2.0	1.7
65-69	1.5	1.4		1.3	1.4		1.4	1.3	1.6	1.6	1.4		1.3	1.4	1.3	1.5	1.4	1.6	1.8	1.7	1.9-	1.2	1.1	1.3
70-74	11-1	1.1	1.1	1.3	1.4	0.7	1.0	0.9	1.2	1.1	1.0		1.0	1.0	1.0	1,1	1.2	1.0	1.6	1.6	1.5	3.0	0.6	
75 and over	1.4	1.3	1.4	0.9	0.9	0.9	11.5	7.4	1.6	7.0	1.8	2.2	1.1	1.0	1,3	1.0	1.0	0.1	2.1	2.1	2.0	0.7	0.6	0.8
				1			1			1						ļ						1		
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Source: OPS Bulletin of Statistics 12/77

The youthful nature of the T.T.P.I. population is graphically displayed by the population pyramid found on page $_55$

1/ The great majority of Micronesians (more than 72 percent) are less than thirty years old, and the Territory's median age (16.2 years) is one of the world's lowest. Particularly significant for population planning is the fact that 72 percent of all females are less than thirty years of age. This represents an extremely high "fedundity" -- i.e. biological potential for reproduction -- in the population. (See Table IV-3)



Source: Figure 1 is taken from Alan Kay, "Population Growth in Micronesia," <u>Micronesian Reporter</u>, XXII (2nd Quarter, 1974), No. 2, P. 17.



C. Geographic Distribution:

Table IV-4 shows Trust Territory citizens by place of residence at the time of the 1973 census, both in absolute numbers and as a percent, of the total district population.

This table slightly understates the proportion of residents in District Centers since it excludes aliens, who reside almost exclusively in District Centers.

The geographical areas selected are not political sub-divisions, but rather geographical units defined by social characteristics and travel times (accessibility to hospital services). 2/

Table clearly shows that more people live in the district centers than in any other single geographical sub-area. 3/ It also shows that the combined populations of the district and sub-district centers account for more than one-half of the TTPI's entire population. Thus, it is possible to say that most Micronesians reside in areas with relatively easy access to hospitals 4/ and other health services.

TRUST TERRITORY CITIZENS BY PLACE OF RESIDENCE September 1973

District	D. Center	Sub D.C.	Intermediate*	Outer Islands**
Total 100,918 : '(51,778 47%	9,873 9%	28,550 26%	20,431 182
Kosrae 3,898 100%	Lelu, / Malem, Tafunsak		Halung O	
Marshalls	Majuro (DUO, Laura)	Ebeye	Arno	Likiep; Utirik; Ailuk; Mejit; Wotje; Maleolap; Aur; Namorik; Mili, Ebon; Kili; Ailinglaplap; Jaluit, Lib; Jabwot; Rongelap; Namu; Ujelang; Bikini; Wotho; Lae; Ufae;
25,045 100%	10,290 41%	5,469 21.8%	1,120 4.5%	N.S. 8,166 32.6%
Palau	Koror		Babelthuap; Angaur; Peleliu;	Pulo Anna; Sonsorol; Tobi; N.S.
12,673 100%	7,669 60.5%		Kayangel 4,867 38.4%	137 1%
Ponape	Kolonia; Nett, Sokehs.		Uh; Kiti; Metalanim	Pingelap; Mokil; Nukuoro; Ngatik; Kapingamarangi
19,263 100%	9368 53.8%		6,891 35.8%	2,004 10,4%
Truk	Moen		Dublon; Tol Uman; Fefan; Romanum; Udot; Tsis; Param; Eot: Fala-Beguest	Nama: Losap; Pis-Losa riamoluk; Oneop; Satawan; Lukunor; Fananu; Etal: Kutu; Moch; Tamatam; Ta; Pulusuk; Puluvat; Pulap; Nomvin; Hagur; Ulu]; Onari; Ono; Ruo; Pisaras; Pisaras, Nurillo; N.S.
31,609 1002	9,568 30,2%		48 46 ₋ 3%	93 23.5%
Υ _{αρ}	Rull; Weloy; Gagil; Map; Towil; Fanif; Gilman; Dalipabinau; Kanifay		Rumung	Ulithi; Fais; Sorol; Lamotrek; Ngulu; Noleai; Faraulep; Elato; Eauripik; Ifalik; Satawal; N.S.
7.870 100%	5.011 63.7%		129 1.6%	2,730 34.7

Source:

TTP1 SHPDA from 1973, TTP1 Census

المهار ومنادي ومرجز والسعارة ويجاز فيستنا المرجاء وزايه والمرار والمراري والمراري

An intermediate area is more than 2 hours but less than 1 day's travel time from the district center.

Table IV-5 shows distribution among the sub-areas of those persons defined as high-risk in terms of health care problems. The first three groups (0-1 year, infants; 1-4 year, children; and females in the prime a child bearing ages, 15-44 years) are the critical ages for maternal and child health care; the last (persons aged 55 years and older) are of importance because of the special health needs of the elderly.

TABLE IV-5

GEOGRAPHIC DISTRIBUTION OF HIGH-RISK AGE GROUPS (TTPI CITIZENS), 1973

GEOGRAPHIC AREA	IRFANT (I NUMBER	D-1 year) %*	CHILD (1- NUMBER	4 years)	FERVALE (15 NUMBER	-44 years) %*	ELDERLY (S HUHBER	5 & over years) %
District Center	1,982	4.4	6,799	15.0	10,562	23.5	3,744	8.3
Sub-District Center	440	8	1,488_	27	1,865	34	691	12.6
Intermediate	1,235	4.3	4,235	14.8	4,709	16.5	2,754	9.6
Outer Island	843	4.1	2,940	14.4	3,469	17	2,245	11
TTPI Total	4,500		15,463		20,605		9,434	
Percentage of TTPI Population Falling Into High-Risk Age Categories	·	4.5		15.3		20		9.4

* Percentage of Area Population in High-Risk Groups

Source: TTPI SHPDA - Note: The combined populations of these high risk age groups (50,002) represent 49.6% of the total TTPI population.

Table IV-5 shows that 49.6 percent of all TTPI citizens fall into these high-risk age groups. In other words, nearly one-half of Micronesia's population can be considered of special interest to health planning because of the propensity of these persons to require certain health services. Table IV-5 also shows that there are proportionately more elderly persons residing in the outer islands and intermediate areas than in the district and sub-district center. At the same time, proportionately more women of the prime child-bearing ages live in the district and sub-district centers than in the intermediate areas and outer islands. Given this latter fact, it may seem surprising that all four geographic subdivisions have relatively similar proportions of infants and children among their populations. This apparent discrepancy is explained by the fact that many district center women of child-bearing age send their children to live with relatives and friends in the other geographic sub-areas of Micronesia.

Figures IV-2b and IV-2c 5/ analyze the district center and outer island populations in terms of age, as well as sex. These two population pyramids show that there is a much larger proportion of young adults of both sexes aged 15-24 years living in the district centers than in the outer islands. This selective migration to the district centers from the outlying areas of the Trust Territory, is probably due to the increased educational and vocational opportunities at the district centers, as well as the attraction exerted by the "modern" amenities available in the district center.

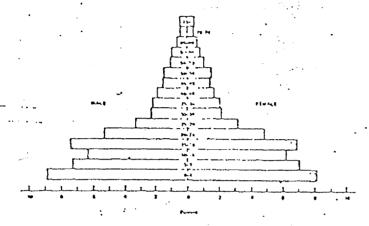
Various characteristics of the district center and outer island populations are summarized in Figure IV-2d.6/ It shows that 25 percent of the district center population is between 15 and 24 years of age, while, only 15 percent of the outer island population falls into this age group. Figure IV-2d also shows the small proportion of elderly persons in the TTPI, with more residing in the outer islands than in the district center.

Figure IV-2b

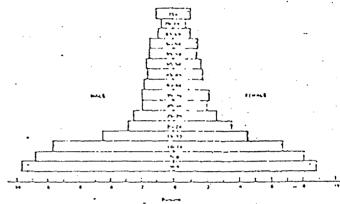
POPULATION PYRAMID OF DISTRICT CENTER RESIDENTS, 1973

Figure IV-2c

POPULATION PYTIAMID OF OUTER ISLAND RESIDENTS, 1973

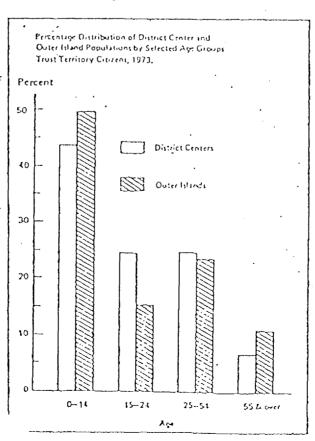


Source: Kay's - See Footnote 5



Source: Kay's - See Footnote 5

Figure IV-2d



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D. Population Trends and Projections

The population characteristics discussed above were extracted from data compiled in the TT Census of 1973, the Trust Territory's last official population enumeration. When they are compared with data contained in the 1967 TTPI Census, a number of significant changes in the size, composition, and distribution of Micronesia's population become evident. In the following section, we establish these population "trends" (changes between 1967 and 1973), and use them to project plausible patterns of future growth. Our projections assume, of course, that the components of future population growth will continue to closely approximate the rates existing between 1967 and 1973. 7/

The left-hand side of Table $\underline{IV-6}$ contains the 1967 and 1973 TfPI citizen populations of each district, and shows the average annual growth rate for each district, as calculated using a formula based on the principle of compound interest.

The table shows that between 1967 and 1973 Micronesia's population grow at a very high rate (3.6 percent annually); if this rate of growth continues, the population will double from 1973 levels by 1993—a period of only twenty years. This extremely high rate of growth is due primarily to high rates of "natural increase"—in other words, most areas of the TTPI have high birth rates and low death rates. This fact is reflected in Table IV-6, which shows that all the districts of the Trust Territory,

except Yap and Palau, have annual rates of growth similar to, or greater than, the 3.6 percent annual growth rate of the entire TTPI.

TABLE IV-6DISTRICT POPULATION GROWTH

(TTPI CITIZENS), 1967--1973

• • •	DECIDENT	POPULATION	Annual Growth Rate
DISTRICT	1967	1973	%
DISTRICT		13,3	
Kosrae	3,226	3,952	3.4
Marshalls	10 500	25 045	4 4
1,41,2114,112	18,599	25,045	4.4
Palau	10,991	12,673	1.7
		•	
Ponape ·	18,064	19,263	4.0
Truk	24,821	31,609	3.9
II UK .	24,021	31,009	3.9
Yap	6,618	7,870	2.4
	<u> </u>		
ፕፐቤ፤ ፕሊዮል! ድ	02 210		3 (
TTPI TOTALS	82,319	100,918	3.6
·			<u> </u>

Source: TTPI SHPDA

Table IV-7 shows the mid-year TTPI citizen population estimate by age groups and projects the size of these age groups up to 1982. The proportion of Micronesians under 30 years of age is projected to increase slightly by 1982 (to 76 percent, as compared to 73 percent in 1973).

Table IV-7

fre]== 1972 -	1112 - 1312	~1stlm of the	Trosi forriso (1701 g/g)		3 by age, see and district				
Placelet	lan .	Age group	1574	1377	1520	1331	1547		
Treat Territory Total	both saids	Tatel 0 - 14 15 - 64 65 awar	119,180 58,740 57,550 4,656	316,940 52,350 59,750 6,860	3.030 67.510 67.030 170,610	115,016 55,150 61,150 5,255	129,450 57,300 64,610 5,350		
	Rela	Total 0 - 16 15 - 56 45 over	\$7,700 16,150 27,110 2,310	57,630 27,010 30,140 7,330	61,570 17,713 31,410 7,410	63.700 13.530 31.610 7.550	\$5,754 27,470 37,860 2,620		
: * · · · · · · · · · ·	Forale	Tetal 0 - 15 15 - 55 65 ever	55,550 14,740 13,446 2,340	57,332 15,326 23,510 2,430	\$7,250 26,04a 30,63a 1,560	£1,370 26,300 31,710 2,650	63,510 27,630 31,150 1,130		
Fatres	both seven	Total 0 - 14 15 - 61 65 over	1,100 2,160 2,160	1,710 2,2-0 2,355	1,513 2,159 1,150	5.110 7.350 7.615	5,360 1,410 1,730		
	Male	Total 0 - 14 15 - 44 45 over	2.336 3.116 1.110	1,170 (,1)2 1,160 50	1,500 1,152 1,252	2,580 1,119 1,110	7,690 1,910 1,370		
	F===10	Total 0 - 14 15 - 64 65	1,180 1,890 1,110 72	1,360 1,110 1,185 70	7,640 1,160 1,140 70	1,536 1,160 1,379	1,670 1,150 1,360 70		
Barshalla	Both sees	70121 • - 16 15 - 66 45 mars	27,140 13,030 11,750 1,170	11,725 13,270 11,272 1,145	13,673 13,660 11,660 1,210	35,710 13,175 15,450 1,240	31,314 11,110 16,100 1,320		
	Kala	10tal 0 - 14 15 - 14 45 corr	11,120 6,750 6,950 5,96	14,615 6,830 7,113 550	15,170 7,010 7,500 550	15.44a 7.737 7.310 600	16,310 7,440 8,110 610		
	finds	10121 0 - 14 15 - 14	13,460 6,760 4,813 550	14,030 4,330 7,000 610	16,550 6,550 7,360 630	15,013 6,740 7,650 643	15.670 6.130 7.760 680		
Falre	both serves	10121 0 - 14 15 - 64 65 m-r	11,518 5,576 7,110 557	15,310 4,110 7,433 533	14,620 4,140 7,550 550	15,320 6,440 8,160 610	15,870 6,650 8,550 640		
	No.	Tatel 0 - 15 15 - 65 45 +	7,130 3,070 3,150 170	7,353 3,133 3,550 183	7,550 1,110 4,150 150	7,860 3,310 6,260 730	1,150 1,150 1,100 1,100 1,100		
•	forele	Total 0 - 14 13 - 44	4,730 1,513 3,510	4,377 2,359 3,639 364	7,310 3,650 3,650 310	7,440 7,136 4,000 330	7,740 3,219 1,150 350		
trip	both saves	1#4+1 0 - 16 15 - 16 65 0	31,350 3,820 11,160 800	17,610 9,550 11,150	17,140 12,152 12,000 122	7),510 10,510 17,430 5)0	14.710 10.550 17.870 370		
	Pale	74cc1 0 - 14 15 - 44 45 prof	11,1)0 1,060 1,170 100	11,44p 5,113 5,850 430	11,850 5,240 4,050 433	17,200 5,410 6,110 470	13,630 5,620 6,550 672		
	foote.	1910) 0 - 16 15 - 61 55 aver	10,150 1,110 5,170 100	10,120 6,550 5,720 6,70	\$1,350 6,372 \$,310 600	11,120 5,140 6,114 444	17,140 5,319 4,340 470		
Trey	\$417 Lears	futel 0 - 1h 15 - 61 15 - or	16,359 16,359 16,350 11,350 1,530	17,47# 14,710 14,510 1,550	35,650 17,415 17,475 1,576	10,010 11,530 10,410 1,410	11,150 11,150 11,150 1,600		
	Ful.	15(0) 0 = 15 15 = 65 65 mms	11, C10 2, 510 7, 110 200	18,7 ⁴ 0 8,740 9,470 7,470	19,512 9,500 9,840 1,840	17,110	21,029 3,177 10,61a 600		
	r,~l.	Total 0 - 14 15 - 44 43	17,612 7,540 5,172 770	18,448 4,153 5,435 8,4	17,673 1,416 3,133 133	15,713 6,730 10,170 850	10,446 10,510 10,446		
· Jer	Back sees		1,150 3,650 4,537 470	3,01p 3,51b 6,730 642	3.117 3.113 4.133 523	5,433 4,633 5,640 510	5,5% 4,257 5,152 522		
	Rela	Talel 0 - 34 15 - 64 4) ===================================	1,433 1,413 2,153 340	1,54 1,55 1,10 14	1,652 2,153 2,153	1,113 1,113 1,126 110	5,0;2 1,15; 1,5;1 1,5;1		
	Formit	Teles 0 - 11 13 - 50 15	1,722 1,722 1,103 1,103	1,343 1,343 1,375 2,4	1,465	1,113 1,113 1,513 150	1,57 1,57 1,60 16		

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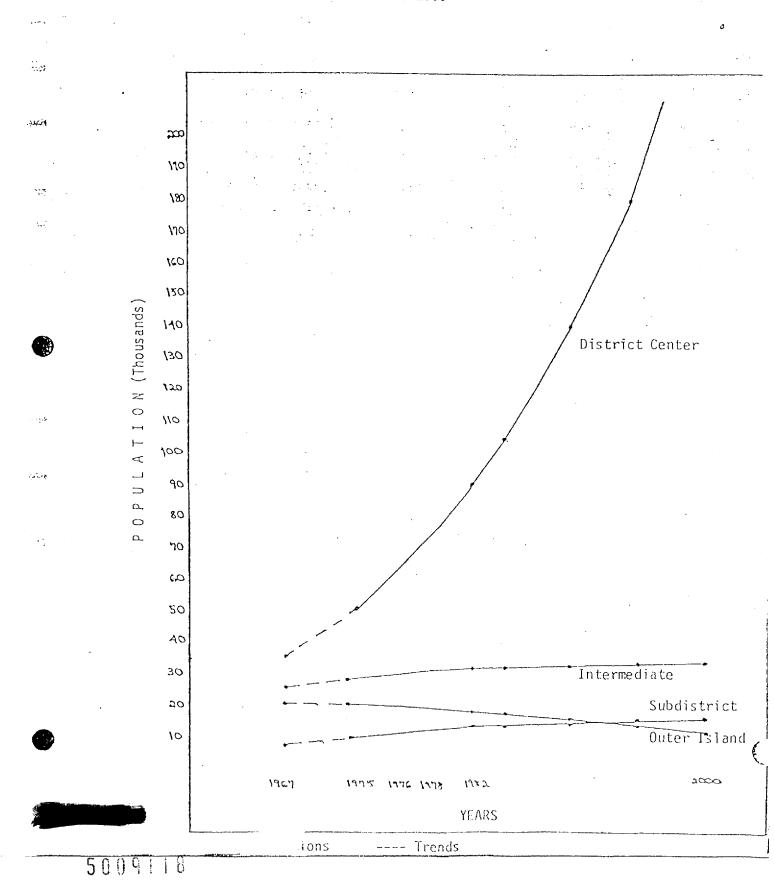
It has already been noted that nearly one-half of all Micronesians reside in the district centers. Table IV-8 shows the number of TTPI citizens living in each of the district centers in 1967 and 1973, and indicates the corresponding annual growth rates. It also shows the district center populations as percentages of each district's entire population for 1967, 1973, and projections for 1978, 1982. Clearly, an increasing proportion of each district's future population can be expected to reside in the district centers rather than in the intermediate or outer island areas. The district center annual growth rate is seven percent, the sub-district centers' annual growth rate is 4.2 percent, and the intermediate areas annual growth rate is only 1.6 percent. The total outer island population is expected to decrease slightly each year.

TABLE IV-8 District Center Population Growth, 1967-1973 and District Center Population as a Percent of the Entire District, 1967-1982

Selected District Centers	Resident F (All 1967	Persons)	Annual Growth Rate	Dist 1967 %	rict Ce 1973 %	nter as 1978 %	% of Dist 1982 %	rict
Majuro Atoll	5,077	9,661	11.3	27.2	45	51.1	59.4	
Moen	5,772	9,293	8.3	23.2	29.7	35,8	40.9	
Kolonia-Sokehs-Net	6,311	10,070	8.1	34.9	44	51.7	57.8	
Yap	3,741	4,776	6.1	56.5	62.7	67.5	71.0	
Kosrae	3,226	3,989		100.0	100.0	100.0	100.0	
Koror	5,363	7,219	5.1	48.7	59.3	67.6	73.5	
District Center Totals	29,490	45,008						

The projections shown in Table IV-8 are significant for health planning purposes. District center populations are growing nearly twice as fast as the TTPI as a whole; in some instances the rate of growth is even greater. The population of Majuro, for example, nearly doubled in the six years between the last two TTPI censuses. In only fifteen years (1967-1982) the proportion of all Micronesians residing in the district centers is expected to increase by more than 20 percent. This dramatic rate of growth is attributable to the previously mentioned high birth rates, as well as increasing net migratory influx to district centers from other geographical subdivisions of the Trust Territory. Figure IV-3a shows a distinct pattern of in-migration to the district centers from other parts of Micronesia. The graphs show the extremely high rate of district center growth, and the much lower growth rates for sub-district centers and intermediate areas. At the same time, the outer islands have been experiencing a steady population decline. This large difference in growth may be attributed to migration pattern from outlying areas into the district centers.

GEOGRAPHICAL SUBDIVISION GROWTH (T.T.P.I. Citizens) 1967-2000



Figures IV-3b, IV-3c, IV-3d and IV-3e show trends and projections of growth for four high risk age groups, according to geographical distribution.

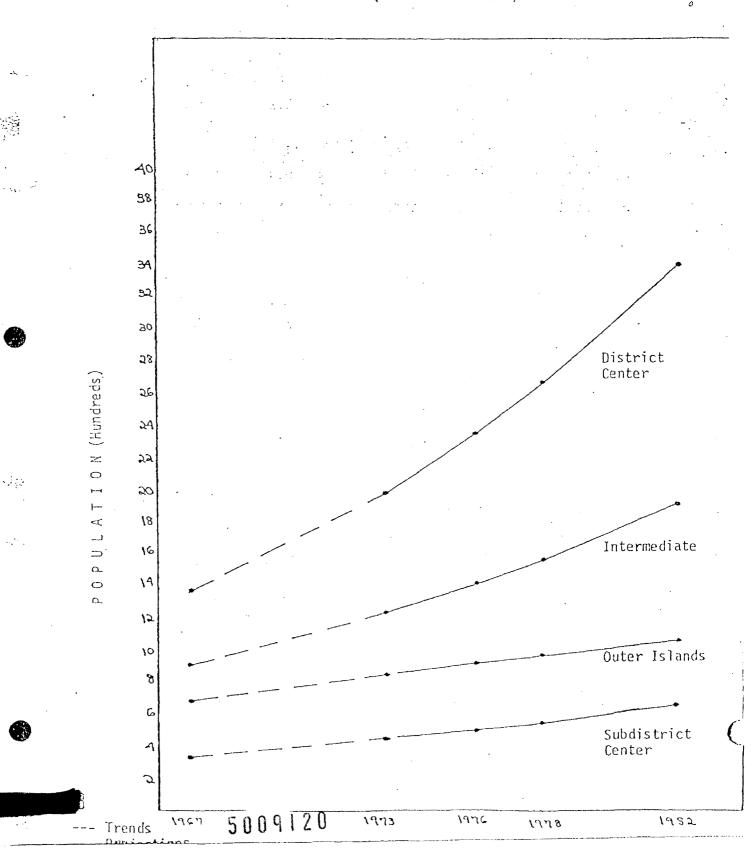
1. Distribution of Infants:

Figure IV-3b indicates that the infant population (0-1 year) is expected to grow at the highest rate in the district centers, followed by the intermediate areas. The sub-district centers and the outer islands are expected to grow at lower levels, but nearly identical rates. At the same time the total number of infants is expected to remain greatest in the district centers, followed by the intermediate areas, the outer islands, and the sub-district centers. By 1982, nearly one-half (48 percent) of all infants are projected to be living in the district centers -- an increase of four percent from 1973. However, despite this steady increase in the numbers of district center infants, this population group will continue to constitute 3.8 percent of the total district center population through 1982. By comparison, infants are expected to constitute increasingly larger proportions of the total sub-district center, intermediate area, and outer island populations. Again this can be attributed to the practice of young women who reside in the district centers, sending their children to live with relatives in outlying regions.

2. Distribution of Children:

Figure IV-3b

GEOGRAPHICAL DISTRIBUTION OF INFANTS (0-1 Year) 1967-1982 (T.T.P.I. Citizens)

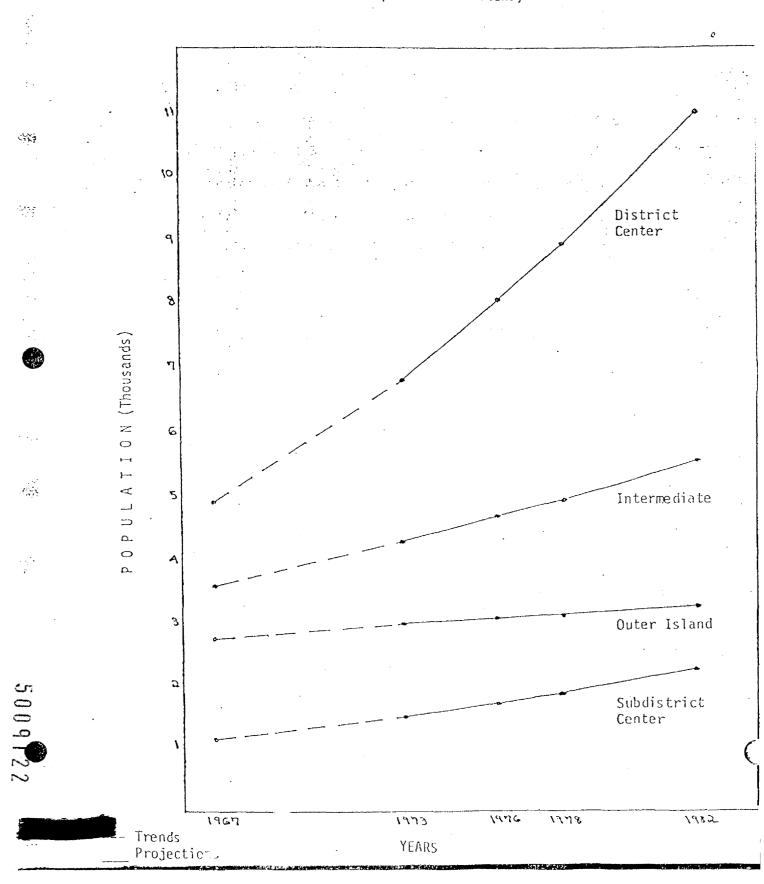


2. Distribution of Children:

Figure IV-3c shows a projected growth pattern for children (1-4 years) similar to that pattern for infants. Again, the district centers are projected to grow at the highest rate, followed by the intermediate areas. The child population in the sub-district centers is expected to grow faster than in the outer islands. In terms of total numbers, the district centers are also expected to have the greatest number of children, followed by the intermediate areas, the outer islands, and the sub-district centers. Fifty percent of all children are expected to be living in the district centers by 1982. However, they will constitute a decreasing proportion of the district centers' total population (12.1 percent in 1982, as compared to 13.1 percent in 1973), while the population of children in the other geographical sub-divisions of Micronesia will constitute an increasing proportion of those areas total population.

3. Distribution of Women:

Figure IV-3c
GEOGRAPHICAL DISTRIBUTION OF CHILDREN (1-4 years)
1967-1982 (T.T.P.I. Citizens)



3. Distribution of Women:

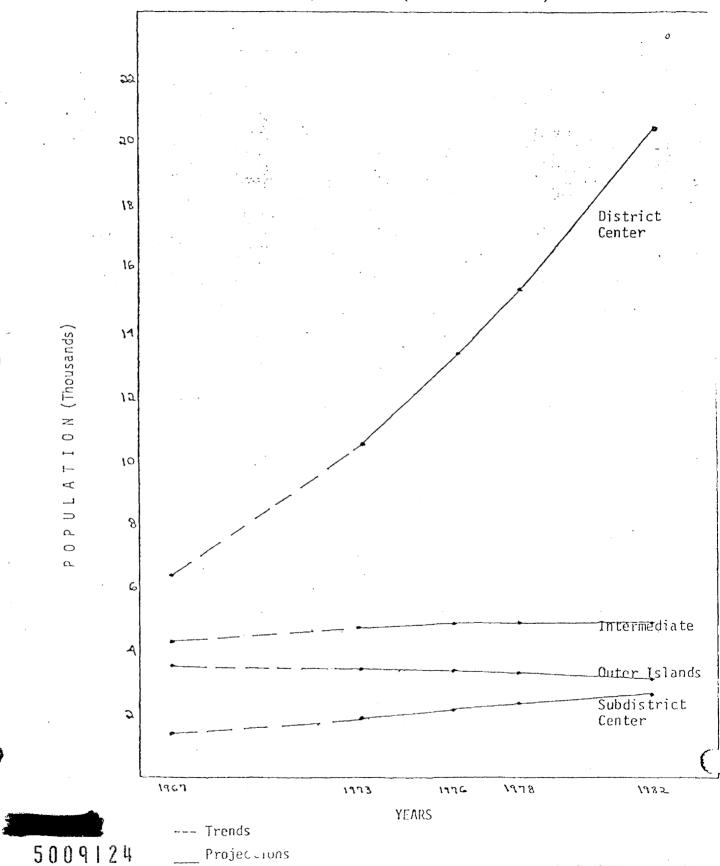
Figure IV-3d shows growth trends and projections for women of prime children bearing age (15-44 years). Once again, the district centers are expected to experience the highest rate of growth. Both the sub-district centers and the intermediate areas are projected to grow at much lower rates. The outer islands can expect a negative growth rate. In terms of total numbers, the district centers will have the greatest number of women in their child-bearing year, with 66 percent of all women aged 15-44 expected to be living in the district center by 1982. The intermediate areas, outer islands, and sub-district centers will follow in total numbers. However, despite the negative growth expected in the outer islands, women of prime child-bearing age will actually constitute a slightly increasing proportion of that area's total population. Conversely, even though the intermediate areas should experience a positive rate of growth through 1982 for women aged 15-44, this population group is expected to constitute a slowly decreasing proportion of the sub-districts' total population.

4. Distribution of the Elderly:

Figure IV-3d

15.5

GEOGRAPHICAL DISTRIBUTION OF WOMEN IN PRIME CHILD-BEARING YEARS (15-44 Years) 1967-1982 (T.T.P.I. Citizens)



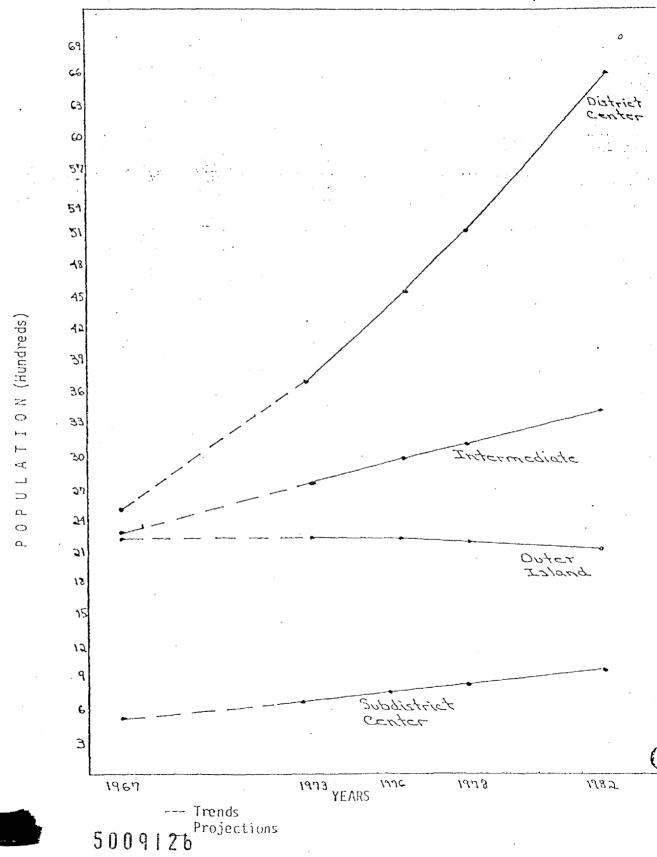
4. Distribution of the Elderly:

Figure IV-3e shows growth trends and projections for the elderly (55 years and older) in each of the four geographical sub-divisions of Micronesia. The district centers should continue to lead the TTPI in terms of both rates of growth and total numbers, with the intermediate areas second. The elderly population is expected to grow faster in the sub-district centers than in the outer islands, but in terms of total numbers the outer islands will continue to lead the sub-district centers. By 1982, one-half of all elderly persons are expected to be living in the district centers. However, they will constitute only 7.2 percent of the entire district center population, while in the outer islands they are expected to constitute 11.9 percent of the total population.

 $x_{i}^{(i)} \in \mathbb{R}^{2}$

.....

GEOGRAPHICAL DISTRIBUTION OF THE ELDERLY (55 years and older) 1967-1982 (T.T.P.I. Citizens)



Notes

- 1. In this instance, and in all subsequent use of Kay's graphic materials, it must be noted that Kay's figures do not always correspond exactly to to figures in this report (differing in most cases by statistically insignificant proportions). Kay's graphs are intended to suggest broad demographic features, and they accurately illustrate the population characteristics indicated by this data, which are presented with more precision in tabular form.
- 2. For the purposes of this report, the following definitions have been used to describe each geographical sub-division:

"District Centers" and "Sub-district Centers" have been defined, whenever possible, to conform with the criteria used in the 1973 TTPI Census; i.e. "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, salaried wage earners, public utilities (water and electricity), post offices, road and cars, airfields, harbors, etc." In terms of health care delivery, district and sub-district center populations are all within one or two hours traveling time by car or boat to hospital services.

"Intermediate Areas" include all those municipalities, islands, and atolls which are more than two hours traveling time from hospital services, but within less than one day's travel by small boat.

"Outer Islands" are all those islands and atolls located more than one day's travel from district and sub-district center. They are primarily accessible only by ship.

3. 1973 Trust Territory of the Pacific Islands (TTPI) Census, P.4

In defining geographical sub-areas, we have not always followed exactly the criteria of the 1973 census. For example, the census defines Ponape's district center to include Kolonia Municipality and certain census enumeration districts in Nett and Sokehs Municipalities. However, we were unable to express our data in terms more specific than whole municipalities. At the same time, good road conditions have made the amenities of district center living readily available to the residents of Nett and Sokehs Municipalities. Consequently, we chose to include all of Nett and Sokehs in our district center totals. In other cases, we disagreed with the definitions used in the census. For example, we decided that because of the excellent condition of the roadway connecting Laura to Majuro (DUD), they both warranted inclusion as the Marshalls District Center. In the case of the Yap Islands complex, only Rumung is inaccessible by road to the hospital services of Colonia. Although Rumung is within two hours travel to Colonia

by boat, tide and weather conditions frequently increase travelling time by one or two hours, and therefore, we have designated Rumung an intermediate area. Similar considerations prompted us to designate Walung in Kosrae as an intermediate area.

- 4. Sub-district center hospitals are much more limited in services, equipment, and personnel than district center hospitals. The two geographic subareas are not exactly comparable.
- 5. These figures are reproduced from Kay, "Population Growth" P.20. See his discussion of them. P. 20-21.
- 6. Ibid
- 7. Changing future political status (See Section), may change population variables in ways which cannot now be predicted, especially the migration patterns.

CHAPTER FIVE

HEALTH STATUS IN THE TTPI

CHAPTER 5 HEALTH STATUS:

I. INTRODUCTION

A health delivery system acts in concert with many elements of an individual's and a community's environment to effect the goal of enhancing health and eradicating sickness. Limited resources are available to expend upon a health system in any nation, but areas such as the TTPI which are in the midst of political and financial transition, are particularly cognizant of the need to limit expenditures while maintaining maximal health within the population. In order to effectively balance cost with benefit, it is necessary for any plan to begin by assessing the state of health within a community and by assessing the major threats to health within that same community. It is this assessment which the Health Status Section of the Trust Territory Health Plan will attempt to perform.

"Health" is defined by the World Health Organization as ". . . a state of complete physical, mental and social well being and not merely the absence of disease or infirmity."

This is a comprehensive definition which represents the ultimate goal of the health system as it interacts with the individual's and community's environment to promote well being. The definition

avoids defining health solely in terms of physical health and the absence of disease. This definition emphasizes the mix of personal and governmental choices required to create and maintain a system which is health and not illness oriented, i.e. a system which emphasizes prevention of disease. It further serves to remind that health (or the lack of health) is a product beyond the hospital or dispensary and thereby beyond the health system currently operating in the United States (the system upon which that of the Trust Territory is modeled).

Unfortunately, data by which to assess health in the comprehensive and position fashion espoused by the WHO is not currently available in the TTPI. The development of this plan must rely upon negative indicators (i.e. rates of disease present within the population) of physicial health (i.e. physical health alone, as opposed to the more comprehensive mental and social health described above). The only social indicators currently available ennumerate the incidence of suicide and violent crime and describe economic conditions. The only positive indicators show immunization levels and crude birth rates. As health planning in the TTPI matures, it will expand its data base to include more comprehensive and positive oriented data.

Seven sets of data are used to analyze health status:

- Crude birth rates (number of births per year for the total population)
- Mortality rates (number of deaths per year for the total population)
- Morbidity rates (number of persons exhibiting disease conditions per year)
- Communicable/Reportable Disease Incidences
- Utilization Figures for the Hospital OPD's and for the Dispensaries
- Hospital Discharge Data
- Immunization Statistics

It must be kept in mind, however, the data which will be presented is not fully reliable. A modern data management system*requires a far larger population base and a far more advanced technology than is present in the Trust Territory. In addition, logistics and limited personnel training make the collection of accurate statistics difficult. Further, it should not be assumed, reporting errors are randomly distributed. Data from the district centers would appear to be the most complete and the most reliable, with data from the outer islands being the least. Quality of outer island reporting depends, among other things, upon the skill levels & motivation of the health service personnel stationed on the various islands; and consequently varies from island to island. The data presented provide the best estimate available of the incidence of the various illnesses but the reader must keep in mind, the figures are only estimates.

The TTPI Bureau of Health Services is in the process of converting to a more comprehensive computerized data system. Programming for the system and the initial printout will become available in early 1979.

The Trust Territory health care delivery system is vastly different from the United States model. Within the Trust Territory, there are no private practitioners. All health care is provided by the government.

Health needs in the Trust Territory are different in that with the small population and smaller incomes (when compared to the United States), the health status is generally lower than in the United States. It is more appropriate to look at the health status in the Trust Territory in comparison with other nations and municipalities in the Pacific area. To this end, data on mortality and morbidity of neighboring countries are included for comparison along with data from the United States.

The prioritization of Goals and Recommendations for Health Status were developed based on the best assessment of severity of the problem and the best estimate of resources available in the Trust Territory.

In many areas, no standards have been articulated since data is sparce, lacking, or in need of development. Many of the problems associated with insufficient data sources will be eliminated upon implementation of the new computer-based data system slated for Spring, 1979.



II. INFANT BIRTH AND MORTALITY

Table V-1 presents crude birth, death and infant mortality rates of the Trust Territory of the Pacific Islands for the years 1965-1976. The average crude birth rate for the period 1972-77 was 33.6 births per 1,000 population. This birth rate is high when compared to the United States birth rate of 14.8. However, when compared to Pacific area countries of American Samoa, 38.1; and Guam 29.3; the Trust Territory of the Pacific Islands' birth rate is acceptable.

The birth rate in Table V-1, also indicates some decline in the birth rate.

As the TTPI population becomes more dependent upon a cash economy, the downward trend in births will probably continue.

Table $\underline{V-2}$ presents births by location for 1976. It is significant to note that 33% of all births occur outside the district hospitals. Of that total, 27.1% of the births occur at home.

Table V-3 presents births by age and location of mother.

Year	Population	Total Births	Birth Rate	Infant Death	Infant Death Rate	Total . Death	Death Rate	Natural Increase	Rate of Natural Increase
.^55	64,290	1,989	30.9	68	34.2	364	5.7	1,625	25.3
55 56	65,039	1,992	30.6	65	32.6	362	5.6	1,630	25.1
·:)	67,199	2,210 .	32.9	85	38.5	393	5.8	1,817	27:0
	70,594	2,298	32.6	85	37.0	350	5.0	1,948	27.6
959	73,052	2,466	33.8	99	40.1	393	5.4	2,073	28.4
.960	75,836	2,649	34.9	85	32.1	451	5.9	2,198	1 29.0
961	77,913	2,895	37.2	93	32.1	412 .	5.3	2,483	31.9
962	80,980	2,694	33.3	89	33.0	386	4.8	2,308	28.5
.963	84,777	2,756	32.5	105	38.1	425	5.0	2,331	27.5
L964	83,215	3,024	34.3	99 .	32.7	529	6.0	2,495	28.3
1965	90,596	3,032	33.5	132	43.5	530	5.9	2,502	27.6
.965 ·	92,373	3,359	36.4	îii	33.0	493	5.3	2,866	31.0
.967	93,580	3,301	35.3	108	32.7	496	5.3	2,805	30.0
.968	94,469	3,440	36.4	112	32.6	545	5.8	2,895	30.6
.969	98,009	3,321	33.9	116	34.9	533	5.4	2,788	28.4
.970 ·	102,250	3,733	36.5	78	20.9	599	5.9	3,134	30.7
971	107,054	3,684	34.4	131	35.6	579 .	5.4	3,107	29.0
.972	114,645	3,959	34.5	. 120	30.3	600	5.2	3,359	29.3
.973	114,773	4,001	34.9	129	32.2	537	4.7	3,464	30.2
1974	118,903	4,004	33.7	124	31.0	608	5.1	3,396	. 28.6
1975	123,184	4,222	34.3	135	33.2	613	5.0	3,609	29.3
1976	127,624	3,973	31.1	71 .	17.9	540	4.2	3,433	26.9

Note: All rates are per 1,000 population, except the Infant Death Rate which is computed per 1,000 live births.

Source: Population from annual reports, Trust Territory of the Pacific Islands. The 1958, 1967 and 1973 populations were enuerated in a Territory-wide census. The 1974 and 1975 populations are projected based on 1973 census population. Population in this table is permanent resident population from appendix I, B. page 162. Births and deaths are from certificates registered for events in each year. Figures for 1970 - 1974 have increased from previous reports by the inclusion of events which were registered late (delayed registeration).

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TABLE V- 1/2, Comparison of TTPI Infant Mortality Rate with selected South Pacific Islands.

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Soude: United Nations, 1970-1976 Date.

TABLE V-3

LIVE BIRTHS BY AGE OF MOTHER

NUMBER OF REGISTERED LIVE BIRTHS BY ACE OF MOTHER,

TRUST TERRITORY DISTRICTS (TTPI) AND THE NORTHERN MARIANAS, 1976

	D	I S T	R I	СТ	S			
AGE GROUP	KOSRAE	MARSHALLS	PALAU	PONAPE	TRUK	YAP	TOTAL.	% OF TOTAL
Under 15	0	1	1	0	. 1	0	3	0.09
15-19	7	208	49	136	85	45	530	15.58
20-24	30	403	168	300	224	88	1,213	35.56
25-29	23	281	92 -	198	205	71	870	25.57
30-34	9	120	.40	108	130	30	437	12.85
35-39	10	58	20	71	67	19	245	7.2
40-44	7	20	4	29	24	10	94	2.76
45-49	0	1	1.	2	-5	1.	10	0.29
50 & Over	0	0	0	0	0	0	0	0
Age Unknown	0	.0	0	0	0	0	0	0
TOTAL	. 86	1,092	375	844	741	264	3,402	100.00

INFANT MORTALITY

The six year average infant mortality rate for the years 1972-77 was 30.1 deaths per 1,000 live births. In other words, for every 1,000 births, about 30 will die within the first year of life. This infant death rate is moderate by comparison to other countries with similar characteristics and resources. Table $\frac{V-4}{V-4}$ presents a comparison of Pacific Islands countries' infant mortality rates.

Infant death rates in the Pacific Islands range from a high of 159 for Papua-New Guinea to a low of 14 for Hawaii.

The 28.9 infant mortality rate is much higher than the 1975 U.S. rate of 16.1. However, the evidence of rapid decrease provides encouragement for achieving target levels.

TRUST TERRITORY OF THE PACIFIC ISLANDS SELECTED NOTIFIABLE DISEASES BY NUMBER OF CASES 1970 - 1976 and 7 Year Total

-	•		=	•	•				
Kinds of Diseases	Number of cases for 7 years	1976	1975	1974	1973	1972	1971	1970	
Dysentary, Amoebic	18,076	3,172	2,792	2,768	3,513	2,147	2,323	1,361	
Conorrhea	4,150	413	532	629	756	733	661	425	
Fish Poisoning	1,898	340	: 221	281	263	288 🚓	310	195	
Infectiious Hepatitis	1,143	39	69	239	568	183	21	24	
Modsles	745	1	-	5	. 25	8	698	8	
Tubervulosis, Pulmonary	600	37	73	109 '	112	. 94	175	94	
German Measles	497	13	5	39	17	408	15	-	
Leprosy	104	27	14	14	. 23	11	12	3	
Tuberculosis, other forms	107	. 15	9	13	12	13	19	' 26	
Meningitis, other forms	88	35 -	11	11	10	5	. 6	6	
Meningitis, Meningoccel	12	1	1	2	4	2	. 2	•	
Tuterculesis, all forms	801	52	82	122	124	107	194	120	٠.
Influenza	117,768	17,439	16,539	13,661	8,076	25,659	24,189	12,205	
	Dysentary, Amoebic Conorrhea Fish Poisoning Infectious Hepatitis Measles Tubervulosis, Pulmonary German Measles Leprosy Tuberculosis, other forms Meningitis, other forms Meningitis, Meningoccal Tuberculosis, all forms	Cases for 7 years Dysentary, Amoebic 18,076 Conorrhea 4,150 Fish Poisoning 1,898 Infectious Hepatitis 745 Tubervulosis, Pulmonary 600 Cerman Measles 497 Leprosy 104 Tuberculosis, other forms 88 Meningitis, Meningoccal 12 Tuberculosis, all forms 801	Kinds of Diseases cases for 7 years 1976 Dysentary, Amoebic 18,076 3,172 Conorrhea 4,150 413 Fish Poisoning 1,898 340 Infectious Hepatitis 1,143 39 Measles 745 1 Tubervulosis, Pulmonary 600 37 Cerman Measles 497 13 Leprosy 104 27 Tuberculosis, other forms 107 15 Meningitis, other forms 88 35 Meningitis, Meningoccal 12 1 Tuberculosis, all forms 801 52	Kinds of Diseases cases for years 1976 1975 Dysentary, Ambebie 18,076 3,172 2,792 Gonorrhea 4,150 413 532 Fish Poisoning 1,898 340 221 Infectious Hepatitis 1,143 39 69 Measles 745 1 - Tubervulosis, Pulmonary 500 37 73 Cerman Measles 497 13 5 Leprosy 104 27 14 Tuberculosis, other forms 107 15 9 Meningitis, other forms 88 35 11 Meningitis, Meningoccal 12 1 1 Tuterculosis, all forms 801 52 82	Kinds of Diseases 7 years 1976 1975 1974 Dysentary, Amoebic 18,076 3,172 2,792 2,768 Conorrhea 4,150 413 532 629 Fish Poisoning 1,898 340 221 281 Infectious Hepatitis 1,143 39 69 239 Measles 745 1 - 5 Tubervulosis, Pulmonary 600 37 73 109 Cerman Measles 497 13 5 39 Leprosy 104 27 14 14 Tuberculosis, other forms 107 15 9 13 Meningitis, other forms 88 35 11 11 Meningitis, Meningoccal 12 1 1 2 Tuterculosis, all forms 801 52 82 122	Kinds of Diseases Number of cases for years 1976 1975 1974 1973 Dysentary, Ambebic 18,076 3,172 2,792 2,768 3,513 Conorrhea 4,150 413 532 629 756 Fish Poisoning 1,898 340 221 281 263 Infectious Hepatitis 1,143 39 69 239 568 Measles 745 1 - 5 25 Tubervulosis, Pulmonary 600 37 73 109 112 German Measles 497 13 5 39 17 Leprosy 104 27 14 14 23 Tuberculosis, other forms 107 15 9 13 12 Meningitis, other forms 88 35 11 11 10 Meningitis, Meningoccal 12 1 1 2 4 Tuterculosis, all forms 801 52 82 122	Kinds of Diseases Number of cases for 7 years 1976 1975 1974 1973 1972 Dysentary, Amoebic 18,076 3,172 2,792 2,768 3,513 2,147 Conorrhea 4,150 413 532 629 756 733 Fish Poisoning 1,898 340 221 281 263 288 Infectious Hepatitis 1,143 39 69 239 568 183 Measles 745 1 - 5 25 8 Tubervulosis, Pulmonary 600 37 73 109 112 94 Cerman Measles 497 13 5 39 17 408 Leprosy 104 27 14 14 23 11 Tuberculosis, other forms 88 35 11 11 10 6 Meningitis, Meningoccal 12 1 1 2 4 2 Tuberculosis, all forms 801 <td>Kinds of Diseases Number of cases for 7 years 1976 1975 1974 1973 1972 1971 Dysentary, Amoebic 18,076 3,172 2,792 2,768 3,513 2,147 2,323 Conorrhea 4,150 413 532 629 756 733 661 Fish Poisoning 1,898 340 221 281 263 288 310 Infectious Hepatitis 1,143 39 69 239 568 183 21 Measles 745 1 - 5 25 8 698 Tubervulosis, Pulmonary 600 37 73 109 112 94 175 Cerman Measles 497 13 5 39 17 408 15 Leprosy 104 27 14 14 23 11 12 Meningitis, other forms 83 35 11 11 10 6 6 Meningitis, Meni</td> <td>Kinds of Diseases 7 years 1976 1975 1974 1973 1972 1971 1970 Dysentary, Amoebic 18,076 3,172 2,792 2,768 3,513 2,147 2,323 1,361 Gonorrhea 4,150 413 532 629 756 733 661 426 Fish Poisoning 1,898 340 221 281 263 288 310 195 Infectious Hepatitis 1,143 39 69 239 568 183 21 24 Moasles 745 1 - 5 25 8 598 8 Tubervulosis, Pulmonary 600 37 73 109 112 94 175 94 Cerman Measles 497 13 5 39 17 408 15 - Leprosy 104 27 14 14 23 11 12 3 Meningitis, other forms 88</td>	Kinds of Diseases Number of cases for 7 years 1976 1975 1974 1973 1972 1971 Dysentary, Amoebic 18,076 3,172 2,792 2,768 3,513 2,147 2,323 Conorrhea 4,150 413 532 629 756 733 661 Fish Poisoning 1,898 340 221 281 263 288 310 Infectious Hepatitis 1,143 39 69 239 568 183 21 Measles 745 1 - 5 25 8 698 Tubervulosis, Pulmonary 600 37 73 109 112 94 175 Cerman Measles 497 13 5 39 17 408 15 Leprosy 104 27 14 14 23 11 12 Meningitis, other forms 83 35 11 11 10 6 6 Meningitis, Meni	Kinds of Diseases 7 years 1976 1975 1974 1973 1972 1971 1970 Dysentary, Amoebic 18,076 3,172 2,792 2,768 3,513 2,147 2,323 1,361 Gonorrhea 4,150 413 532 629 756 733 661 426 Fish Poisoning 1,898 340 221 281 263 288 310 195 Infectious Hepatitis 1,143 39 69 239 568 183 21 24 Moasles 745 1 - 5 25 8 598 8 Tubervulosis, Pulmonary 600 37 73 109 112 94 175 94 Cerman Measles 497 13 5 39 17 408 15 - Leprosy 104 27 14 14 23 11 12 3 Meningitis, other forms 88

DURCE: RB, Morbidity Tables
Honthly Dispatches

OBJECTIVE 1.1

BY 1983, THE TRUST TERRITORY INFANT MORTALITY SHOULD NOT EXCEED AN AVERAGE OF 16 INFANT DEATHS PER 1,000 LIVE BIRTHS FOR ANY CONSECUTIVE THREE YEAR PERIOD AND NOT EXCEED 20 DEATHS PER 1,000 LIVE BIRTHS FOR ANY INDIVIDUAL YEAR.

Table V-5 presents the leading cause of infant deaths for the year 1964-1975.

Prematurity is clearly the primary cause of infant deaths. For the period 1972-1976, prematurity accounted for 27% of all infant deaths.

The TTPI infant mortality rate due to prematurity is 8.6 per 1,000 live births. (1974-1976). The United States rate for prematurity as a cause of death is 1.4 per 1,000.

OBJECTIVE 1.2 BY 1982, THE INFANT MORTALITY RATE FOR PREMATURITY WILL BE NO GREATER THAN 5 DEATHS PER 1,000 LIVE BIRTHS.

Leading Causes of Infants Deaths by Year 11 1 Trust Territory of the Pacific Islands, 1964 - 1973 (Listed in rank order of 1973)

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CAUSE	-··	1975	1974	1973	1972	1971		ΈΛR 1'1969	1'1968	1967	1966	P 1965	P 1964 ·	
Prematurity		54	43	33(1)	30(1)	29(1)		28(1)	7	19(3)	20(2)	27(1)	13(4)	Sir Hiki Libas
th injury anoxic and representation		-	: -	23(2)	17(3)	21(2)	14(3)	14(4)	12(2)	7	10(4)	15(3)	16(2)	
. arrheal & intestinal diseases		21	: 15	19(3)	11(4)	: 19(3)	8(4)	18(3)	11(3)	21(1)	8(5)	23(2)	14(3)	
Influenza 7 pneumonia	. i	10	9	14(4)	20(2)	21(2)	16(2)	19(2)	9(4)	20(2)	22(1)	23(2)	19(1)	
Congenital malformation	•	6	3	11(5)	9(5)	6(4)	3(5)	7(5)		-	12(3)	1		
Meningitis, all forms		1.	. 4	5(6)	2(7)		-		-			- 1		
Malnutrition		2	-	2(7)	3(6)		-	-	-	- 1		1 - 1		
Accident, all types		-		1(8)	2(7)	4(5)	5(5)	2(6)	1_	14.3		14 - 15		目標的
All other causes specified	1	16	. 21	13	14	16	8 ;	5	8	5.	8	4	7 1	
Causes ill-defined 7 unknow	ΔD.	(11)	(10)	7	18	29	33	30	45	20 -	30	40	30	
											根壁			
Total all causes	ļ	121	105	128	-126	145	118	123	117	92	110	132	99 1	

Note: Number in parentheses are ranking order of causes of death for each year.

Figures for 1967 - 1972 have increased from previous reports by the inclusion of events which were registered late (delayed registration).

Source: Trust Territory of the Pacific Islands to the United Nations, 1965 - 1975.

Crude Death Rate

The average crude death rate for the three year period of 1975-1977 was 4.86 deaths per 1,000 population. Table $\underline{V-6}$ indicates that the death

rate seems to be gradually decreasing from an annual high of 7.4 per 1,000 in 1964 to the lowest rate ever of 4.3 in 1976. The 1977'rate rose to 5.2. Indications are that the increase in the crude death rate can be attributed to a shigellosis—epidemic which also accounts for a dramatic increase in mortality of diarrheal diseases.

In comparison, the United States crude death rate was 8.9 in 1975, 5.0 for Hawaii, and 4.8 for American Samoa in 1976. Since the crude death rate seems to be on the decline, no goal has been set for the further reduction of mortality.

Table $\underline{V-6}$ and Figure $\underline{V-1}$ list the ten leading causes of death in rank order in the Trust Territory for the years 1975-1977. Included in Table V-6 is the death rate by cause.

Figures V-2a--j graphically illustrates the incidence of the ten leading causes of mortality in the Trust Territory for the period from 1971-1976.

MALIGNANT NEOPLASMS

Cancer is the leading cause of death in the Trust Territory for the period 1975-1977. Approximately 8.8% of all deaths were attributable to cancer

TABLE V-6 TEN LEADING CAUSES OF DEATH REPORTED IN THE TRUST TERRITORY OF THE PACIFIC ISLANDS IN. CALENDAR YEAR 1975, 1976 and 1977 LISTED IN RANK ORDER OF 1976)

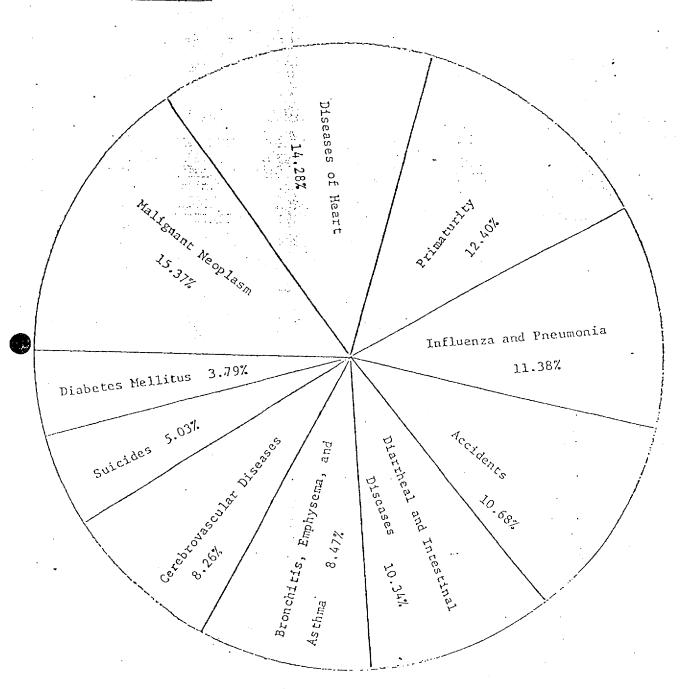
						•	1		
CAUSE OF DEATH	1977	1976	1975**	Average No. of Dates 1975-1977	TTPI Rate/ ¹ 100,000	*U.S. Rate/ ² 100,000	American Samoa Rate/ ³ 100,000	Guam Rate/ ⁴ 100,000	
gnant Neoplasms (140~209)	48	37	2	42.3	38.4	170.5	43	50	
Diarrheal & Intestinal Diseases (004,006,008,009)	70	19		40.6	36,8	UNK	UNK	UNK	
Heart Disease (390-398,402,410-429)	41	29	38	36	32.7	339.0	400	150	سينفث سيخرج وروازان
Prematurity* (777)	29	14	52 .	31.7	8.6	1.4	6.5	14.9	,
Influenza & Pneumonia (470,480-486)	38	. 31	29	32.7	29.7	27.0	UNK	28	-126-
Accidents, All Types (E800-E949)	30	36	18	28	25.4	47.6	49.7	81	
Bronchitis, Emphasyema Asthma (490, 493)	26	29	32	29	26.3	11.9	21.4	UNK	·
Cerebrovascular Disease (430,938)	10	21	20	17	15.4	91.8	51		
Suicides (E950,E959)	16	10	• 19	15	13.6	12.6	9	UNK	Table Nation
Diabetes Mellitus (250)	7	8	8	7.7	7.0	16.8	34.4	16.5	

Average Rate for 1975-77, TTPI
 Average Rate for 1975, U.S. (Provisional)
 Average Rate for 1974-76-American Samoa (Source: AS-HSP)

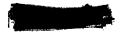
^{4.} Average Rate for 1971-1976, Guam (Source: Guam-HSP)

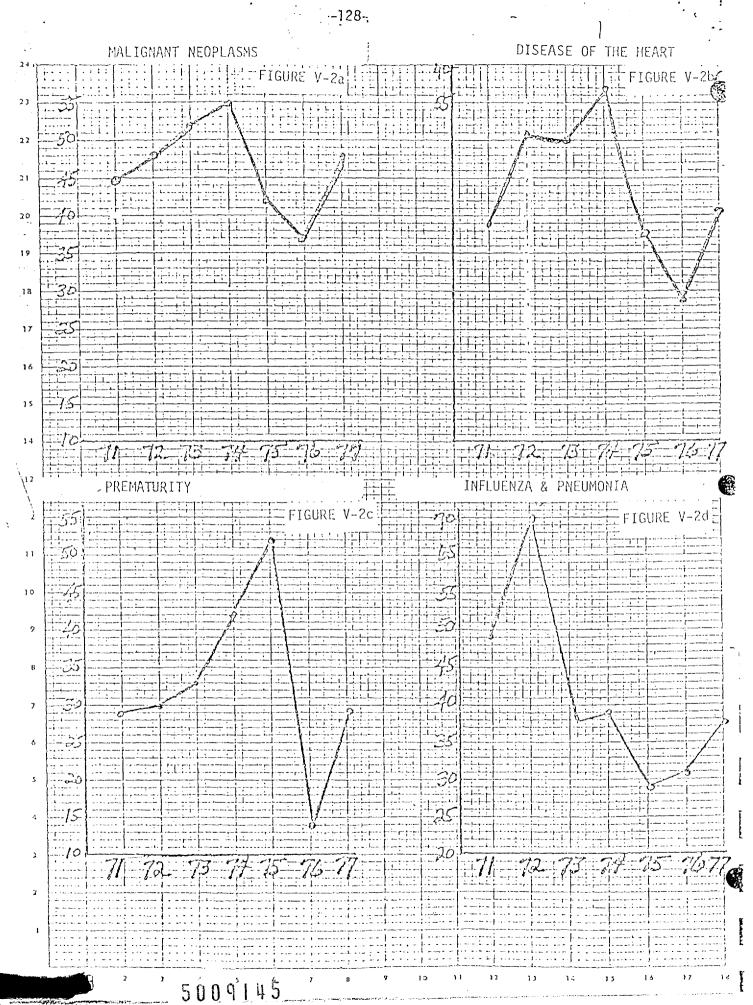
TEN (10) LEADING CAUSES OF DEATH TRUST TERRITORY OF THE PACIFIC ISLANDS 1974 - 1976

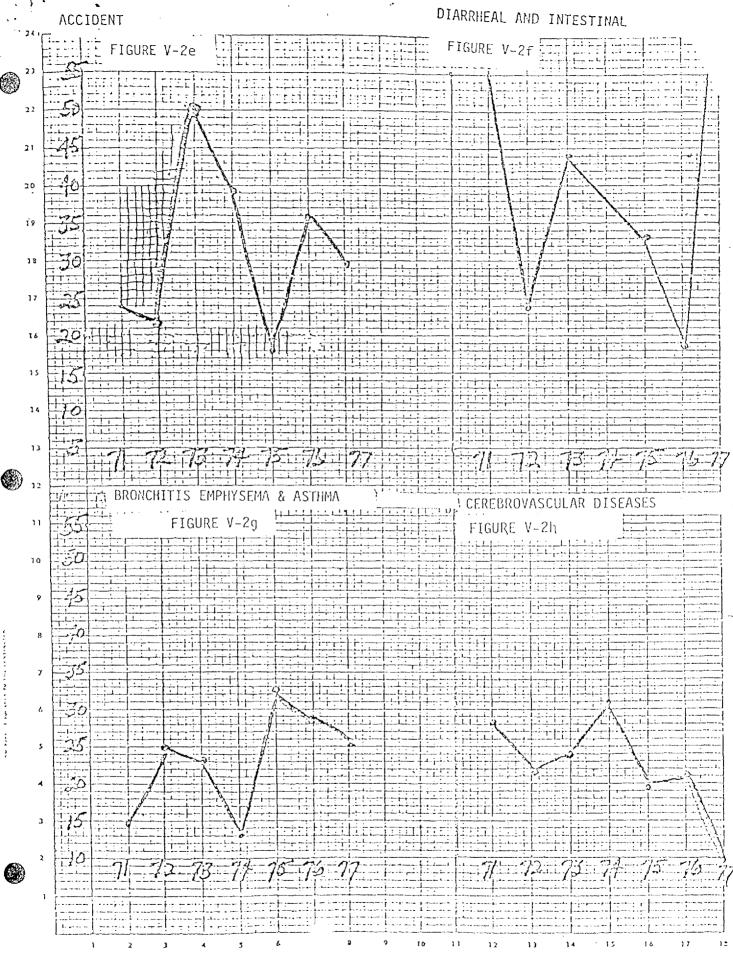
Figure V-1



Percentage figures indicate % of 10 leading causes of all deaths.







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during the above stated period for an average of 42.3 cancer deaths per year.

The cancer mortality rate per 100,000 population for the period was 38.4. In comparison, the United States cancer mortality rate for 1975 was 170.5 per 100,000 population. The average age of death from cancer was 59.6 years.

In comparison with cancer rates in the United States, American Samoa and Guam, a Trust Territory of the Pacific Islands' citizen has a lower risk of dying of cancer. For example, a TTPI citizen has a 79% less likely chance of dying of cancer than a United States citizen, and 18% less likely chance of death by cancer than a Guamanian. (See Table V-6).

OBJECTIVE: MAINTAIN CANCER MORTALITY RATES AT 36/100,000 POPULATION.

HEART DISEASES

Diseases of the heart is the third leading cause of death in the TTPI. The number of deaths attributed to heart disease for the period of 1975-1976 averaged 36 deaths per year. (Table <u>V-6</u>). Yearly incidence of death by heart disease seems to be declining, however, the disease is still a major concern of Micronesia since this disease is usually most prevalent in industrialized nations. Micronesia is a developing country and must remain vigilant of health trends of advanced nations. The mortality rate of heart disease for persons

over age 35 was 185/100,000 population.

In comparison to American Samoa, which has a heart disease mortality rate of 400/100,000 population for the same age group, TTPI citizens have 54% less likely chance of death by heart disease.

INFLUENZA AND PNEUMONIA

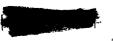
The fourth leading cause of death in the TTPI is influenza and pneumonia. The TTPI influenza and pneumonia mortality rate per 100,000 population of 29.7 is high in comparison with the United States rate of 27.0 and Guams rate of 28. About 26% of all deaths with influenza and pneumonia as cause are infants.

OBJECTIVE

BY 1983, THE AGE SPECIFIC MORTALITY RATE FOR HEART DISEASES FOR PERSONS OVER AGE 35 WILL NOT EXCEED 175-100,000 POPULATION

OBJECTIVE

BY 1983, INFLUENZA AND PNEUMONIA MORTALITY RATES WILL NOT EXCEED 20 DEATHS/100,000 POPULATION.



Within the TTPI, influenza and pneumonia accounted for 12.3% of all hospital discharges. During the years 1975-1977, 49,888 cases of influenza was reported in the TTPI.

CEREBROVASCULAR DISEASE

Cerebrovascular disease is a chronic ailment which was the eighth leading cause of death for the period of 1975-1977. Sometimes referred to as stroke, this disease afflicts primarily the elderly. The mortality rate for cerebrovascular disease for the period of 1975-1977 was 15.4 deaths per 100,000 population. This rate is lower than either the U.S. rate, 91.8 deaths per 100,000 population or the Guam and American Samoa rates of 35 and 51 per 100,000.

OBJECTIVE:

BY 1982, DECREASE THE CEREBROVASCULAR MORTALITY RATE BY 15%.

IV. INFECTIOUS & NOTIFIABLE DISEASES

The control of several acute preventable diseases is a priority activity in most countries throughout the world. These diseases which are infectious and passed or transmitted by either man, air or water, are characterized by sudden onset.

When diagnosed, these diseases must be reported by the physician or provider of medical care to the TTPI Bureau of Health Services - Meadquarters.



The prevention of diseases is of primary concern and priority in the Trust Territory. With the relative density and smallness of population an outbreak of a disease could be catastrophic. Therefore, it is of extreme importance that the district departments of Health Services maintain increased vigilance and reporting capabilities.

Table V-7 presents morbidity data on the reported number of cases of notifiable diseases and the average incidence rate per 100,000 population for the period of 1975-1977.

Influenza, amebiasis and gastroenteritis are the notifiable diseases with the highest incidence rate in the Trust Territory.

The mortality rate for communicable diseases during the period of 1972-1977 was 27.67 per 100,000 population.

Table V-8 presents a comparison of communicable disease incidence rates for Pacific Islands countries. With the exception of amoebiasis, the Trust Territory communicable disease incidence rates are comparable to other Pacific Islands.

OBJECTIVE

BY 1983, DEATHS FROM COMMUNICABLE DISEASES WHICH ARE PREVENTABLE WILL BE LESS THAN 12 PER 100,000 POPULATION.

GASTROINTESTINAL DISEASES

Amoebiasis/Dysentary/Gastroenteritis

The Trust Territory reports a high incidence rate for amoebiasis, 3,595 per 100,000 population. Over 4,000 cases of amoebiasis are reported annually. The procedure for diagnosing the disease is based on laboratory examination of unstrained stool specimens. However, recent studies by the Communicable Disease Control Branch of the United States Public Health Service and other Pacific Islands countries have indicated that most of the reported amoebiasis is probably incorrectly diagnosed and the proper diagnosis would probably be dysentary. Gastroenteritis and dysentary are the principle diseases responsible for the high communicable disease mortality rate.

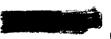
Table $\underline{V-5}$ presents the number of deaths by year from gastrointestinal diseases. Of the 265 deaths, 192 or 75% were children less than one year of age. The mortality rate due to gastroenteritis and dysentary for the period 1972-1977 was 29.26 deaths per 100,000 population. Children less than 1 year of age account for 19% of all cases hospitalized for gastroenteritis diseases.

OBJECTIVE

BY 1983, THE MORTALITY RATE FOR GASTROINTESTINAL DISEASES WILL BE NO MORE THAN 18 PER 100,000 POPULATION.

OBJECTIVE

BY 1982, THE INCIDENCE OF GASTROINTESTINAL DISEASE WILL BE REDUCED BY 12%.



COMMUNICABLE DISSESSED IN PROISEC ISSUED PORTATIONS, 1974-79 Average Annual Incidence Paces For 100,000 Population

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VENERAL DISEASE

The annual incidence of gonorrhea in the TTPI was 459 cases per 100,000 population during the period 1974-1977.

The United States incidence rate of gonorrhea in 1974 (mid-period of the last five years) was 420 cases per 100,000 population.

A schematic comparison of gonorrhea incidence rates for the TTPI and United States is given in Figure $\underline{\hspace{0.5cm}V-2}$.

An increase of gonorrhea is anticipated as the population grows "younger" and employment opportunities become more scarce. Another problem which may increase susceptability to the disease is the recent discovery of penicillin resistent strain of gonorrhea in the TTPI.

OBJECTIVE

BY 1983, THE INCIDENCE RATE OF NEW CASES OF GONORRHEA WILL NOT EXCEED 400 CASES PER 100,000 POPULATION.

OBJECTIVE

TO MAINTAIN INCIDENCE RATE FOR SYPHILIS AT THE CURRENT LEVEL.
(Over recent years, no syphilis cases have been reported in the TTPI.)

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Table V-9

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ronepe		168,6	100	1,553	11	22	1	1,934	35	1,976	\$6	2,187	62	2,701	62	306,4	13	1,657	47	1.051	13:
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TUBERCULOSIS

Although in the decline, tuberculosis still continues to be a problem. Most of the tuberculosis patients are centered in the outer islands where health care is limited.

The tuberculosis incidence rate for the period of 1974-1977 was 62 cases per 100,000 population. That figure is high compared to the United States' rate of 15.0.

OBJECTIVE

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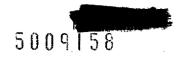
BY 1983, THE TUBERCULOSIS INCIDENCE RATE OF 62 CASES PER 100,000 POPULATION WILL BE DECREASED BY 25%.

IMMUNIZATIONS

Table y_{-9} displays a 1978 assessment of immunization levels in the Trust Territory of the Pacific Islands for children born in the years prior to 1975. Of the 27,805 children, only 12,186 or 44% had complete immunization. Most of the children with partial or no immunizations reside in the outer islands which poses an accessibility problem to public health officials.

OBJECTIVE

BY 1983, 90% OF ALL CHILDREN THROUGH THE AGE OF SIXTEEN WILL BE IMMUNIZED AGAINST COMMUNICABLE DISEASES.



VI. CHRONIC AND HANDICAPPING DISEASES

Within the TTPI, the most prevalent morbidity problem is diseases of the respiratory system. During fiscal year 1977, 23.5% of all inpatient discharges were due to diseases of the respiratory system. Also during FY 1977, 26,850 cases or 22.5% of all reported outpatient problems were diagnosed as respiratory diseases.

During the years 1974-1976, the average number of deaths due to diseases of the respiratory system was 24.6. The mortality rate for the same three year period was 23.7 deaths per 100,000 population. This rate is high, compared to the United States rate of 11.9.

However, the TTPI rate is comparable to the American Samoa rate of 21.4.

DIABETES MELLITUS

Diabetes is a disease which is greatly under-estimated as it is seldom a primary cause of death, but it is handicapping and reduces the work force of a community.

The importance of diabetes in producing disability is compounded by its predisposing influence in the development of arteriosclerotic complications

which account for the majority of all deaths of diabetic individuals.

During the reporting years of 1974-1977, deaths due to diabetes as a primary cause averaged 11 deaths per year. The TTPI data recording system does not currently have the capability of recording contributing causes of death. The eleven deaths annually directly attributed to diabetes yields a mortality rate of 10.6 deaths per 100,000 population. This rate would probably increase substantially if secondary or contributing causes were retrievable.

NATIONAL GOAL

MAINTAIN ACCEPTABLE LEVELS OF PREVALENCE OF CHRONIC AND HANDICAPPING DISEASES.

OBJECTIVE

BY 1983, THE MORTALITY RATE FOR DISEASE OF THE RESPIRATORY SYSTEM WILL BE REDUCED TO LESS THAN 20 DEATHS PER 100,000 POPULATION.

OBJECTIVE

BY 1983, THE MORTALITY RATE FOR DIABETES AS A DIRECT OR CONTRIBUTING CAUSE OF DEATH WILL NOT EXCEED 8 PER 100,000 POPULATION.

