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REPORT BY THE U. S. GOVERNMENT SURVEY MISSION TO THE TRUST TERRITORY OF THE PACIFIC ISLANDS

Volume Two*

THE ECONCHIC AND SOCIAL DEVELOPMENT OF

Part II. The Economic and Social Development of Micronesia Part III. Administration of the Trust Territory

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A Report by the U. S. Government Survey Mission to the Trust Territory of the Pacific Islands

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ECONOMIC DEVELOPMENT IN MICRONESIA

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This part of the Survey Mission's Report describes briefly the economy of the Trust Territory and sets forth the Mission's recommendations for economic advancement in Micronesia. It is divided into six chapters. Chapter 1 sets out in broad terms the economic problems which face the Trust Territory now and in the near future and suggests the general lines along which solutions should be drawn. Chapter 2 describes the Micronesian economy, to the extent it can be done, in quantitative detail. The major features of its population, output, income, and foreign trade are set forth. Chapter 3 provides a more detailed discussion of the labor force, attitudes toward work, labor mobility, and related topics.

Chapter 4 considers the major actual and potential producing sectors of the economy: agriculture, fishing, mining, and manufacturing, and makes recommendations on their further development. A separate part of the Report discusses agriculture in greater detail. Chapter 5 considers commerce, finance, and savings habits in the Trust Territory.

The Mission's recommendations have been incorporated into the discussion of each issue as it comes up, in order to indicate directly their relevance. The major recommendations are also summarized in Chapter 6.

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Chapter 1

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THE BROAD ISSUES

The economy of Micronesia is based largely on food gathering and on subsistence agriculture and fishing. Of an adult population of about 45,000, fewer than 10 percent are regularly employed for wages and salaries, although at least an equal number work from time to time at preparing dried coconut meat, copra, for export. The labor force is at a low level of educational and technical skill, with less than 20 percent of the adult population having completed more than 6 years of schooling.

Despite the importance of subsistence production in Micronomia,

there is a growing desire for money income to use for purchasing wanted imports. In many areas a taste has been cultivated for rice, sugar, tobacco, beer and other items typically consumed in market economies; and outboard motors, motor scooters, gasoline, and kerosene are rapidly becoming "necessities" in and around the district centers of Micronesia. Largely because it is viewed as a channel to desirable employment and higher money incomes, more and better education is everywhere extolled and is widely coveted by the young.

Subsistence production can support adequate living standards only so long as land resources are ample. Rapidly growing population -nearly 4 percent a year (see Table 1) -- is beginning to press against land resources in some parts of Micronesia. Throughout the

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Population	Growth	in	Micronesia		0116	

Age Group	1953	1958	1962	1967 <u>a</u> /	1972 <u>a</u> /
Under 15	19,796 <u>b</u> /	30,173	35,690	41,260	48,000
15-64	34,321	37,009	40,606	47,500	56,200
65 and over	3,725 <u>b</u> /	3,412	4,784	6,130	8,200
Total	57,842	70,594	80,980	94,890	112,400

- <u>a</u>/ Projected from 1962 assuming no change in the numbers of live births per thousand of adult population aged 15-64 and no change in the death rates experienced in 1962.
- b/ These reported population figures seem inconsistent with later census results.
- Note: The population of the Trust Territory rose 40 percent in the nine years 1953-1962, or 3.8 percent a year.

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Trust Territory the population density is only 121 per square mile; but several large volcanic islands, now virtually inaccessible in the interior, account for most of the unused land. On some coral atolls in the Truk District rural population densities exceed 500 per square mile. With one of the fastest growing populations in the world, living standards in Micronesia may well fall in the coming years. Indeed, using the Trust Territory government's data, imports per capita appear to have fallen by nearly 20 percent since 1957. Neither the political nor the humanitarian interests of the United States are served by permitting this malthusian squeeze of population against land to depress Micronesian living standards. A two-pronged program which will raise productivity and facilitate mobility is required to prevent the number of people from out-running the availability of productive resources.

Proper education plays a critical role in any program for economic development. Education is necessary to provide the minimum skills required to raise productivity and to provide sufficiently common background to make successful migration possible. But greater education will in turn stimulate further the demand for money incomes and imported goods. Secondary education at boarding schools attracts teen-agers from the rural into the urban and semi-urban centers of the Trust Territory and Guam and exposes them to a way of life substantially different from that to which they are accustomed. The same education which prepares

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II-A-1

Micronesians for absorption into the modern world often generates dissatisfaction and impatience with traditional modes of existence. The students become too sophisticated in their tastes to go "back to the farm". An expanded and improved educational system will, unless care is taken to prevent it, increase not only the desire for more cash but will raise unrealizable expectations for salaried employment.

While secondary education -- particularly as it is improved -prepares students for more modern life and more modern employment, it does not automatically provide them with jobs. The demand for better educated Micronesians will not rise spontaneously to absorb the increased supply of them. Unless jobs are available for graduating students -- or unless the educational program is designed to discourage unrealistic expectations for salaried employment -- many reasonably well-educated students will be disappointed when they reach the job market. Already in Palau there are substantial numbers of men and women willing to work but unable to find jobs, and in Ponape and Truk "urban" unemployment in the District Centers is reported as beginning to appear. Provision of employment opportunities becomes more urgent as the school system is expanded and as it is centralized in areas of urban populations; special efforts will be required to assure that employment opportunities are adequate.

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School enrollment is expected to grow rapidly in the near future (Table 2). In 1962 there were only 84 Micronesians graduated from high school, and fewer than 600 graduated from junior high school. Total high school enrollment is expected to double between 1963-1967 and to quadruple in the next 10 years. The number of graduates will increase by tenfold over the same 10 years. While there now seems a shortage of qualified personnel in most districts, this situation will rapidly change to a surplus unless employment opportunities are increased in step with the numbers leaving school after six or more grades.

II-A-1

The Trust Territory government, now the major employer with over half of the total estimated wage and salary earners in Micronesia, will absorb some of these additional graduates -- partly through new programs and partly through the gradual replacement of less qualified personnel now working for the government. The construction program and associated rise in operating costs recommended by the Mission will provide ample job opportunities in most districts during the next few years. Thereafter, government employment will decline while the total demand for jobs continues to grow.

The provision of additional jobs is imperative from a social and humanitarian viewpoint. The young people are keener than their elders to become a part of the modern world.

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Projected School Enrollment

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opportuniti	Grades 1 - 8	Grades 9 - 12	High School Graduates	College Graduates	gir
1952	8,261	585	. 12	*	1
1955	8,728	658	20	t bernken i	
1960	14,556	1,042	100	*	
1963	17,581	1,492	100	*	
1964	17,985	1,717	150	18	
1965	18,495	2,074	275	22	
1966	19,012	2,515	375	27	
1967	19,634	3,030	450	. 34	
1968	20,259	3,567	535	42	
1973	23,000	6,900	1,000	125	

* In 1963 there were 21 Micronesians with bachelors degrees, all graduated since 1955. In September 1963, 125 Micronesians will be enrolled in institutions of higher education.

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It is the younger generation which is less insistent and less fearful of changing the present status of the Trust Territory, for it has less psychological commitment to the status quo. Yet the absence of job opportunities following secondary education may disillusion the younger generation with modern existence, with education, and with the United States as administering authority. Dissatisfied with traditional ways of life, this important political group will feel caught between a traditional life to which they cannot return and frustrated hope for a more modern mode of living.

The basic characteristics of Micronesia, its vast distances and its paucity of resources (including, ironically, labor), limit sharply the rise in living standards which can take place even with extensive assistance, and this fact should be recognized frankly. The ultimate solution for those Micronesians who aspire to ever increasing living standards is emigration from the Trust Territory, and partial preparation for such emigration should be one objective of U.S. policy in Micronesia. But extensive emigration from Micronesia, even if it were financially and legally feasible, cannot be regarded as a near-term solution to the problem of inadequate incomes and prospective unemployment in the territory. It will be years before any but a few exceptional Micronesians would be able to compete openly and effectively in the

II-A-1

sophisticated labor market of the United States. More could find unskilled work on Guam, but the labor market there is limited too. In the meantime, some improvement in employment opportunities is possible within the Trust Territory, and this should be sufficient to serve Micronesian interests in the near future. However, several impediments stand in the way of marked increase in private employment outside the traditional agriculture sectors: Lack of capital, lack of entrepreneurial initiative, lack of adequate technical knowledge, and, not least, the lack of obvious profit-making opportunities.

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There is evidence everywhere of the lack of capital, both public and private capital, both fixed and working capital. Often expensive construction equipment sits for weeks for want of spare parts; much time is lost in areas where there are roads because vehicles have no spares; and even more time is lost in other areas because there are no roads or vehicles. Produce and fish cannot be marketed for lack of chilling facilities and ice. Copra is not produced because small stores have insufficient capital to stock the trade goods wanted. And small manufacturing ventures cannot be launched because of inadequate working capital.

Even when capital is available -- and there is some local capital, especially in Saipan and Koror -- few ventures are undertaken due to lack of technical knowledge and the lack of managerial initiative in acquiring practical knowledge of markets and production techniques. As in most underdeveloped countries, "business" means "trade" and few Micronesians even think in terms of non-agricultural production for sale. In a few cases where initiative has been demonstrated, it has been stifled by conflict with regulations or administrative practice in the Trust Territory. Especially in western Micronesia, historical channels for trade and technical assistance have been with Japan, and because of the small scale of operation in Micronesia, technical advice can sometimes be found in Japan when it cannot be found in the United States. Yet until July 1, 1963, it was against regulations for Japanese to visit or reside temporarily in Micronesia even on a consultant basis.

Even if all the ingredients discussed above -- potential markets, capital, technical knowledge, and initiative -- are present, surface and air transportation as it exists today within the Trust Territory hampers the development of continuing relationships between Micronesian producers and foreign buyers or buyers in the other districts. The transportation system is inadequate and irregular. For economic development of Micronesia, first priority should be given to improvements in transportation. Recommendations of the Survey Mission are outlined in a separate part of this Report.

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The United States must overcome the years of neglect of the Trust Territory which is evident everywhere -- in the roads, the public buildings, the schools, the water and sewer systems. To overcome some of the present deficiencies the Mission recommends a substantial public works construction program, outlined elsewhere in this Report. In addition to these public expenditures, however, the Mission feels that some mechanism must be found to overcome the formidable impediments to economic development in the Trust Territory, a catalyst to economic activity which will work effectively to provide jobs when they are needed. Moreover, the timing of any public construction program is critical when viewed as a provider of local employment rather than as a program to get things built.

To program public construction expenditures and to act as a catalyst to business in the Trust Territory, the Mission recommends establishment of a Programming and Development Unit within the Trust Territory government, to be staffed with highly qualified technicians provided on contract by a firm with extensive economic and engineering experience in underdeveloped areas. The full responsibilities of the Programming and Development Contractor are set out in Chapter 4 below. They would include planning the timing of public capital expenditures to achieve the most desirable impact on local employment and income . consistent with accomplishing the job efficiently, assisting private

Id give heavy weight, in the view of

II-A-1

businessmen with capital and technical advice, and initiating certain promising commercial ventures which Micronesians are not yet ready to start on their own.

II-A-1

Public capital expenditures in Micronesia must serve two objectives: (a) to get the job done quickly and efficiently, so the services from the construction project will be available without undue delay; and (b) to generate local employment and income. Although usually these two objectives will converge, in some instances they may conflict (for example when the fastest and cheapest method of getting a job done is to bring in sophisticated equipment and highly skilled labor and management from outside the Territory). In such cases the timing of a project should give heavy weight, in the view of the Mission, to the impact on local employment except in those cases where the indirect effects on local employment were judged so favorable that the project should be undertaken as quickly as possible. Only a continuously functioning Programming and Development Unit can make the needed judgements.

What is necessary in Micronesia is a <u>sense of progress</u> toward better living standards and social services, not a large one-step improvement. It would be a mistake to attempt to make up in a short period of time for more than a decade of U.S. negligence in the area. Indeed a too rapid increase in U.S. activity in the area could have two consequences which are better avoided: (1) local employment, a by-product of any

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program to enlarge social capital such as schools, roads and docks, would be created in abundance during construction and then would be largely eliminated upon project completion, leaving workers with no alternative employment. (2) A pattern of expectation for a pace of future improvement which cannot be sustained may be created. Both consequences would have an unfortunate impact on Micronesian attitudes.

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For these reasons a "crash" program of public construction is not appropriate for Micronesia. Rather, a program of public construction and assistance to private enterprise should be paced to generate as smooth and continuous a rise in employment and incomes as is consistent with efficient programming. Instead of a crash investment program in all the sectors, it is preferable from the viewpoints both of cmployment and of intelligent planning to move ahead with the educational program quickly, and while the actual construction of schools and teachers' housing is taking place, the rest of the public construction program could be planned. Construction on these projects would begin as school construction tapers off, releasing workers. By the time total employment generated by the public construction program began to decline, employment in commercial ventures undertaken with the help of the Programming and Development Contractor should be on the increase. This recommended sequence of planning and implementation corresponds, the Mission feels, to the practical timing possible for intelligent use of funds. And it should succeed in providing a steady increase in Micronesian employment and incomes.

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THE ECONOMY IN PROSPECTIVE

Chapter 2

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The largely self-sufficient character of Micronesia's subsistence economy has hindered the systematic collection of statistical information for the area. Even statistics collected as a by-product of normal government operations, such as tax and duty collections, are often of doubtful quality. For this reason careful quantitative economic analysis is not usually feasible. Despite the varying quality of the basic data, the Mission has worked with quantitative information on the labor force, production and foreign trade survey of the economic problems of Micronesia. However, many of the figures set forth below should be regarded as rough estimates or indicating orders of magnitude rather than as precise measurements.

Because of a period of sustained and rapid growth in population since the war (annual average, 3.8%), there are a large number of children in Micronesia -- in the Marianas district persons under 15 years of age make up over 50 percent of the total population, and for Micronesia as a whole the percentage is nearly 45 (see Table 3). This large percentage of children, even more pronounced here than in most other underdeveloped areas, places a heavy economic burden on the relatively small working

Table 3

Age Structure of Population

Age Group	Micronesia, 1962	USA, 1960
Under 15	44.1*	31.1
15 - 64	50.8	60.0
65 and over	S.1	8.9
Total	100	100

* The percentage of population under 15 is probably understated due to an under-reporting of births.

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adult population. Of the total adult population of nearly 45,000, only 4,100 worked for wages and salaries in mid-1962. To these should be added the 5,000 who in the 1958 census reported themselves as "copra producers" and perhaps another 1,000 who through part-time producing or selling of artcrafts and produce should be considered at least partially in the monetary economy of Micronesia -- a total of around 10,000 or only oneeighth of the total population.

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Over half of those working for wages and salaries are directly employed by the Trust Territory government. Table 4 lists employment by type of employer.

Over 65 percent of all wage earners are reported as employed by government agencies, but even this figure is low and should be increased by a large number of teachers and domestic servants in households of U.S. Government employees. Employment in manufacturing establishments of any kind is notable by its absence.

Large-scale hiring by trading establishments or firms manufacturing for the local market is precluded by the miniscule size of local markets and the vast distances which separate them. Quite apart from the low purchasing power of the average Micronesian, there is no concentration of population (including children) large enough to be considered a city.

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Table 4

Employment of Micronesians for Wages, by Type of Employer, Fiscal Year 1962

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contraction. Only by turning	Number of Employees	Annual Wages
Trust Territory Administration	2,325	2,297
U.S. Post Office	4	.7
U.S. Coast Guard	8	6
U.S. Weather Bureau	in mount states 40 and 1	30
Naval Station, Kwajalein	174*	231*
Other Government Agencies	135	118
Trading Companies	426	332
Other Wholesalers	146	82
Other Local Business	234	60
Private Households	309	171
Missions	212	76
All Others	92	102
Total	4,105	3,513
	Barber Internet Courts Theorem	the norted press

*As reported in the 1962 Report to the United Nations. By mid-1963 Kwajalein employment was about twice as high as reported here.

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While "urban" areas are developing around the district centers, none is larger than a small American town (see Table 5). The wide dispersion of population and labor force hampers efficient division of labor and precludes a volume of sales in local markets large enough for efficient, low cost operation. Only by turning to export markets can Micronesia hope to achieve the scale of production necessary for modern efficiency --even though, as discussed further in Chapter 4 below, there are some instances in which it would be feasible to substitute local production for imports.

The major source of money income, apart from wages and salaries, comes from the production and export of copra, the dried meat of the coconut. In addition, limited amounts of fruits and vegetables, fish, trochus shells (for buttons), and handicraft are exported from Micronesia, while some produce and fish is sold locally. Any estimate of the total money income for the area, following national income accounting concepts, is necessarily hazardous, but a crude attempt for 1962 is made in Table 6. Since national income data are not collected on a systematic basis, some component data are available only for calendar years (or parts thereof) and some for fiscal years. Some data do not exist at all. The computation here must be regarded as a rough guess for a 12-month period around 1962. It shows total national income of about \$9.4 million for 1962. If U.S. employees of the Trust Territory government are excluded, money income was \$7.3 million, or around \$90 per capita, placing Micronesia, in

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Table 5

Geographical Dispersion of Population, June 1962

ent Salary-Korpausstan	Population	Adult Male Population
Marshalls District	15,710	4,126
Majuro	3,933	1,026
Kwajalein	1,971*	468*
Ponape District	17,224	5,132
Kolonia	1,247	367
Kusaie	3,019	802
Truk District	22,564	6,677
Truk Lagoon	15,541	4,598
Moen	3,903	1,263
Yap District	5,931	1,825
Yap Islands	3,530	1,086
Palau District	9,965	2,540
Koror	4,111	1,080
Marianas District	9,586	2,298
Saipan	7,830	1,874

*As reported in the 1962 Report to the United Nations. By mid-1963 about 2,600 people were living on Ebeye alone. Recorded figures were consistently lower than those generally accepted in the District Centers. For the sake of consistency, we have used the recorded figures.

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The second finders and Te	able 6	birthe world	alitic steh
Total Mor	ney Income, 1962		
		and Tunganyi	
Wage and Salary Compensation		1	5,984,000
Habe and parary compensation	be deceiving un	dana upak ara	,,,000
Trust Territory Government	-nonetary secto	4,397,000	
U.S. Employees	2,100,000	t main account	mater she
Micronesian Employees	2,297,000		and the second second
Other	ia, and during m	1,587,000	a substation
invision - notably taro, brea	277 000		
U.S. Micronesian	371,000 1,216,000		
Income from Unincorporated			
Business	com along viti	COLUMNIA DE COLUMNIA	2,659,000
Copra Exports	w over-drowded a	1,662,000	
Others Trements	ris have not det	247,000	
Production and Sale of Local			
Goods and Services		750,000	Bornver.
Corporate Income (before dividen	ids)*		500,000
Income from Property			115,000
Rent	the section of a	50,000	
Interest		65,000	
TOTAL	s of great asper		9,358,000
		a Martin Sta	

*Includes estimated income from sale of imports by unincorporated businesses.

terms of money income, among the poorest areas of the world along with Afghanistan, Bolivia, India, Nigeria, Pakistan, and Tanganyika.

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Comparisons of money income can be deceiving unless they are accompanied by comparisons of the non-monetary sector of the economy. Except in a few over-crowded atolls land has not been scarce under the U.S. administration of Micronesia, and during most of the time subsistence foodstuffs -- notably taro, breadfruit, fish, and the all-purpose coconut -have been in abundance. Well-informed observers state that production of these subsistence products has grown along with the population growth -again with the exception of a few over-crowded areas such as the Mortlock Islands -- so consumption standards have not deteriorated. Those relying on subsistence production with little cash income are subject, however, to periods of acute food shortage after heavy storms in which wind and salt spray have temporarily ruined the staple food plants. Inadequate communication and infrequent visits to some of the more remote islands sometimes results in long periods of great deprivation.

There is some non-agricultural production and even exchange which takes place outside the money economy. Houses are frequently built communally on a cooperative basis, but sometimes they are "bought" through traditional modes of exchange. The same is true of other durable goods such as cances. In addition, many community projects such as school and

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road maintenance are undertaken through labor contributions not involving the use of money. All such economic activity makes the computation of money national income represent only a shadow of the whole economy. A crude estimate based on available labor and usable land and on consumption places the value of subsistence production at $1-l_2^{\frac{1}{2}}$ times the value of money national income, so total national income including subsistence production (but excluding household services) would be \$15-18 million a year. But money is required for imported goods, which are in ever greater demand, so to an increasing degree tracking the evolution of the monetary sector is appropriate for following changes in living standards -- so long as developments in the subsistence sector are not neglected entirely.

The paucity of accurate statistics prevents careful study of recent economic growth in Micronesia, but Table 7 sets out data for earnings from employment and exports and expenditures on imports since 1954.

It was stated above that subsistence food production has probably kept pace with population growth in most of Micronesia, but it can be seen from Table 7 that after a sharp increase from 1953-1957, imports seem to have risen very little in the past six years despite an increase in the population by one-fourth during the same period. At the same time, however, money incomes from wages and salaries rose about one-third, and export proceeds also rose about one-third. Under these circumstances the stability in imports is puzzling. Assuming the figures reflect the

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Table 7

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Employment and Foreign Trade

sector must have grown wary sublidly, in the last few

Fiscal	Total Employment	Micron	esian Wages		
Year	for Wages	Total (\$	T.T. Govt. 1000)	Exports (\$	Imports '000)
1954	2,407	1,291	953 *	3,343**	2,258
1955	2,799	1,581	1,165*	4,302**	2,488
1956	3,939	2,276	1,404*	1,733	3,175
1957	4,201	2,604	1,342	1,649	4,158
1958	4,999	2,915	1,815	1,653	4,338
1959	4,196	2,981	1,980	1,241	4,009
1960	4,273	2,990	1,956	1,891	3,747
1961	4,207	3,345	1,778	2,130	4,560
1962	4,105	3,513	2,297	2,125	4,139
			CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR OFTA CONTRACTOR OFTA CONTRACTOR OFT		

*Assuming average annual compensation of \$630 per employee.

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** Includes exports of phosphate totalling \$2,049,900 in 1954 and \$2,744,500 in 1955.

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trends accurately, this behavior can be accounted for only if the Micronesians are spending more on local goods and services -- if so the domestic monetary sector must have grown very rapidly in the last few years -- or if they are saving more. We have been told that savings have indeed increased, but they are not likely to account for the full difference between the higher money incomes and stable imports.

A rough check on Trust Territory import data is provided by recorded exports to the Trust Territory from the United States and Japan, which together normally provide over 90 percent of imports into the Trust Territory. Official U.S. and Japanese export figures (Table 8) suggest quite a different trend for imports into the Trust Territory, and one that corresponds more closely to expectations based on the recorded rise in Micronesian wage earnings and exports: a rise of over 30 percent between 1957 and 1961, and a trebling between 1954 and 1961, compared with increases of less than 10 percent and 100 percent for the corresponding periods recorded by the official import statistics.

The two series are conceptually different both in coverage and definition -- U.S. and Japanese exports exclude ocean shipping costs for example -- but the sharp divergence in their trends points up the need, critical if the economic development of the area is to be properly programmed, for more accurate and more complete economic statistics.

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Table 8

Exports to the Trust Territory from the United States and Japan, 1954-1962

Calendar Year	United States	Japan (\$'000)	Total
1954	910	. 866	1,776
1955	1,217	900	2,117
1956	1,843	813	2,656
1957	3,051	877	3,928
1958	2,505	625	3,130
1959	1,974	772	2,746
1960	3,675	909	4,584
1961	4,105	1,086	5,192
1962	1,538	n.a.	n.a.

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Sources:

Statistical Abstract of the United States; and Japanese Ministry of Finance, Foreign Trade of Japan (annual).

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Even though official import statistics show a relatively stable total for several years, they show some shift in the geographical origin of imports away from the United States toward Japan, although the United States remains the dominant supplier (Table 9). In 1958-59 Japan supplied 15 percent of imports into the Trust Territory; by 1962-63 this share had risen to 22 percent. Steady Japanese advancement into world export markets with low prices is probably the main reason for the rising importance of imports from Japan, but the price advantages have been fortified by more frequent trips by Trust Territory ships to Japan, both for servicing and for regular logistical runs, and by favorable freight rates between Japan and the Trust Territory.

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Along with most underdeveloped economies, Micronesia's exports are concentrated heavily on a few products while its imports are rather diversified (Tables 10 and 11). Copra alone accounts for about 80 percent of the exports from the Trust Territory, and the remaining exports are all primary products except for a small amount of handicraft. Imports include a much wider range of goods, including several important products such as canned fish and such starchy foods as rice and flour which compete with local products.

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Table 9

Origin of Imports

	Cont	(Percen	t)	rta 👘		in the second	
	1958	1959	1960	1961	1962	1963*	
United States	75.5	76.4	74.1	70.9	64.8	70.8	-
Japan	15.3	14.7	17.7	19.5	22.4	21.6	
Other	9.3	8.9	8.1	9.6	12.8	7.6	*
Total	100	100	100	100	100	100	
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* Estimated on the basis of incomplete returns.

Table 10

Composition of Exports

		(\$'000)	•			1964	
	1957	1958	1959	1960	1961	1962	-
Copra	1,488	1,423	968	1,588	1,776	1,662	
Scrap metal	n.a.	n.a.	n.a.	n.a.	133	217	
Trochus	.76	149	175	148	64	34	
Handicraft and shells	27	17	13	21	23	32	
Vegetables	54	57	61	105	69	. 95	
Fish, crab meat, etc.)	5	5	19	27	66	85	. •
Charcoal)	,	2	5	2		30	
Total	1,649	1,653	1,241	1,891	2,130	2,125	

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Composition of Imports

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NUM Counter the local	1958	1961	1962
Food	2,189	2,329	1,883
Rice	566	613	481
Flour	159	166	141
Sugar	217	231	200
Canned Meat	262	257	194
Canned Fish	210	205	232
Other	774	857	636
Beverages	328	385	365
Tobacco and Products	262	307	293
Clothing and Textiles	518	- 603	585
Building Materials		239	217
Boat Parts and Gas	122	116	97
Machinery	75	81.	79
Petroleum Products	201	151	155
All Other	358	347	465
Total	4,335	4,560	4,139

Financing the substantial excess of imports over exports (see Table be 7) requires other external sources of funds. The main source, of course, is that part of the annual appropriation by the U.S. Congress which finances the local wage bill of the Trust Territory government. Other sources and uses of funds in transactions with the rest of the Per world are difficult to trace because of the paucity of statistical in---- formation .-- Since U.S. currency is used throughout the Trust Territory, foreign exchange transactions do not provide information as they do in countries with a separate currency. But Micronesian families do receive remittances from relatives living on Guam and elsewhere abroad, and incisales to visitors also contribute to the total receipts of Micronesia from outside the territory. Against these receipts must be set various outpayments, such as direct mail order purchases by individuals, travel Pencabroad, and new savings deposited in banks which hold their funds in the -United States. Also, many government expenditures do not get into the Micronesian economy, for they go to purchase goods or services outside the Territory. Direct government purchases from abroad are not included in the recorded imports, nor are Micronesian purchases in the stores of

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Kwajalein.

In estimating the total economic impact of additional expenditures in Micronesia, such as would result from the Mission's recommendations, it is necessary to know roughly how much of the additional local

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income will be spent on imports of goods and services, how much will be spent on domestic goods and services, and how much will be saved. Again inadequate statistics make a large amount of guesswork necessary, but it probably would not be far wrong to estimate that somewhat more than half of additional money income would be spent on imports, while perhaps 40 percent would go to purchase local goods and services (including the wholesale and retail markups, usually around 40 percent, on imported goods). Savings would probably be under 5 percent, while municipal and district tax collections might tap 5-10 percent of the additional money income. Because of the heavy leakage of additional incomes into imports, any secondary ("multiplier") effects of additional expenditures on Micronesian incomes and employment would be small. (For every three jobs resulting directly from an increase in government expenditures, perhaps $1-l_2^{\frac{1}{2}}$ to 2 additional jobs would be created locally.)

It would be a mistake to suppose that average figures for exports, imports, and wage and salary compensation for the Trust Territory as a whole could be applied with accuracy to all areas within the Trust Territory. Substantial differences in per capita trade and wage compensation exist among districts (see Table 12), and within districts the differences between the district centers and the outer islands is undoubtedly even greater. Per capita exports are highest in the Marshalls, the major copra-producing area of Micronesia and an area where the Trust Territory

Table 12

Wages and Foreign Trade by District, 1962

	Microne	sian Payro	11 .	Foreign Trade		
ristance arein	Total	T.T. Go	(\$'000)	Exports	Imports	
Marianas Marshalls Palau Ponape Truk Yap	1,157 728 542 417 431 237	816 280 384 334 326 157	tury, and t d forsign o mis per esp Territory.	422 702 170 415 347 69	1,064 963 546 575 706 284	
Total	3,513	2,297		2,125	4,139	

Per Capita Payroll and Foreign Trade by District, 1962

tetare-sul	Micrones	sian Fayroll	Foreign	u Trade		
	Total	T.T. Govt.	Exports	Imports		
		(dollars)				
Marianas	120.69	85.10	44.08	110.99		
Marshalls	46.34	17.85	44.68	61.30		
Palau	54.39	38.49	17.06	54.79		
Ponape	24.21	19.41	24.09	33.38		
Truk	19.10	14.45	15.38	31.29		
Yap	39.96	26.43	11.63	47.88		
Total	43.38	28.36	26.24	51.11		

government payroll adds much less per capita than in most other districts. Yap, by contrast, enjoys a relatively high government payroll per capita, and exports are much lower. The Mission also received the impression that subsistence living standards are probably higher in the Yap Islands than in any other district of the Trust Territory, and it is well known that the Yapese have resisted the intrusion of foreign customs and tastes more than other districts. Nonetheless, imports per capita do not differ greatly from the average for the entire Territory.

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The Marianas District, including Saipan, clearly enjoys the greatest financial benefit from the presence of government, and per capita exports are also much higher than average. As a result, imports into the Marianas (where subsistence agriculture and fishing, while present, is far less prevalent than other areas of Micronesia) are more than twice per capita imports for the Territory as a whole.

In terms of money income, Truk is clearly the most depressed district, ranking lowest both in wage compensation per capita and in imports per capita. As mentioned earlier, parts of Truk District are already pressing the limits, with existing methods of production, of agricultural output, and some observers suggest that the living standard may have fallen in parts of the district in recent years.

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No description of Micronesia's economy would be complete without discussion of the transportation system, which alone makes it possible even to speak in terms of a "Micronesian economy" rather than half a dozen to a dozen separate "economies" with broadly similar problems. Transportation facilities in the Trust Territory are discussed in detail in another part of the Mission's report. It should be mentioned here, however, that the infrequency of port calls by inter-district vessels prevents extensive trade between districts, much less economic integration. While the similarity of population and resources in many districts naturally points to closer trade links with the outside world than between districts, there are nonetheless a number of promising possibilities for interdistrict trade, and developing these lines of activity awaits first of all more frequent, more regular shipping and air connections.

Programming and following through on a development program requires a continuing back-flow of reasonably accurate statistical information about the economy -- production and trade, financial flows, size and skills of labor force. While the Trust Territory now does a commendable job in collecting as many statistics as it does for its annual reports, neither the coverage nor the accuracy is adequate to the requirements for tracking the economic development of the area. The statistics which do exist are often not analyzed as fully as they could be. Several suggestions for improving the statistical coverage are:

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<u>a</u>. Import data should be extended to include direct mail order purchases, purchases at Kwajalein which are not made through currently reporting import firms, and as a separate entry, imports into the Territory by the government which are not made through reporting firms. Special care should be taken to assure that the landed price, excluding all local mark-ups, is recorded.

<u>b</u>. Greater detail on imports should be reported where there is some possibility of substituting Micronesian production for imports, for example; soaps, cooking oil, hardwood lumber, fiber board, non-carbonated soft drinks, and so on.

<u>c</u>. Some attempt should be made to estimate other payments to outside the Territory and receipts from outside the Territory -- remittance from Guam and elsewhere, travel abroad, movements of capital to and from the Territory (especially through the U.S. bank branches which operate in the Territory) and so on.

<u>d</u>. Systematic collection of monetary statistics should be undertaken, including demand and time deposits in banks (and annual changes therein), bank loans in the Territory, bank clearances in the Territory, credit union deposits and loans outstanding, and, if possible, currency in circulation.

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<u>e</u>. The major components of national income should be collected. The most important omissions at present are business income and rental income. Such statistics would be a useful by-product of a territorywide income tax, consideration of which is recommended elsewhere in this report.

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Chapter 3

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LABOR

A critical element in the economic development of the Trust Territory is its labor force. Labor productivity, or output per man per day, is exceedingly low. Climatic conditions are often given as the main reason for low output in the tropics; but Micronesia lacks the stultifying heat of the tropical continents and climate alone does not begin to explain the low level of output. Perhaps a more delibitating factor than climate is the general health of the working population. Even though health conditions are much better than in many other underdeveloped areas, intestinal parasites, respiratory diseases, and unbalanced diets all take their toll in human energy. In some areas as much as 90 percent of the population has stomach worms, for example. Moreover, the shortage of capital in all its forms -- including shipping -lowers the level of output. Unreliable and infrequent visits to outlying islands fail to provide the incentive for extensive and well-planned copra production. And men trained to do construction work with heavy machinery cannot work when aged machinery is continually breaking down and when it is kept unusable for prolonged periods for lack of spare parts.

Recommendations to correct these deficiencies are made elsewhere in the Mission's Report. This chapter will focus on three further factors' which limit productivity, however, and will suggest measures to reduce these barriers to higher output. Inadequate labor skills, conventional

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attitudes toward work (and the closely related question of adequate work supervision), and relative immobility of the working population all inhibit increases in production. Improved living standards in Micronesia require that these obstacles to higher output be overcome. Moreover, in view of the proposed increases in government pay scales, productivity needs to be increased to avoid getting wage costs in Micronesia far outof line with those of other countries. Finally, this chapter considers briefly the impact of the Mission's proposed public construction program on employment in the Trust Territory.

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Labor Skills

Seven - nine 12.0 17.9 Fight Modern skills and technical knowledge are almost non-existent in the Micronesian labor force. The population census of 1958 showed only 10 percent of the population over 14 years as having technical, managerial or clerical skills. Educational attainment, shown in Table 13, was exceedingly low even when no allowance is made for the fact that in many schools the fact of physical attendance is a misleading measure of the education actually acquired. Less then a third of the adult population has a minimum command of English, and there is no technical literature in the indigenous languages which are taught in the schools. Among adults, knowledge of Japanese is probably about as common as English in the Trust Territory as a whole. The lack of technical skills and the poor educational

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Table 13

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Educational Attainment in Micronesia and the

United States, 1958

(Percent of Population over 25 Years)

Years Completed	Trust Territory (Percent)	United States (Percent)	Years Completed	
None or not reported	39.0	8.3	Less than five	
One - three	25.5	0.5	Less than live	
Four - six	16.0	13.8	Five - seven	
Seven - nine	12.8	17.5	Eight	
Ten - eleven	3.5	19.2	Nine - eleven	
Finished high school	0.6	24.6	Finished high	
College: one -three	0.4	8.8	college: one - three	
four or more	0.1	. 7.7	four or more	
Special school: one- three	1.1 elibernie purb of	n.a.	fibert strengt	
four - six	0.9	<u>n.a.</u>	feries stationation	
Total	100.0	100.0	antiture in	
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background (making advanced on-the-job training difficult) hinder the introduction of production processes or techniques which deviate sharply from tradition. Improvements in the educational system budgeted in the past year and further improvements recommended by the Mission should provide the basis for a more highly skilled working force as graduates from the improved system leave school.

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Improvements in the school system must be complemented, however, by a program for on-the-job training of those now working and by a program of adult education in the evenings and special vocational programs in fisheries and agriculture. Recommendations for general adult education are discussed in the Mission's report on education. On-the-job training provides a direct and visible way for raising labor productivity. Such training has been a natural by-product of Micronesian employment in the public works departments of all districts. It is also taking place at the Pacific Missile Range located on Kwajalein. But on-the-job training should become a more deliberate part of the over-all educational program in the Trust Territory. The Texas Transport Company, servicing contractor at Kwajalein, estimates that it can train (including instruction in English) 115 Micronesians for \$40-50,000 a year to cover lost production time. At \$340-430 per trainee per year, this is an inexpensive form of vocational training. Such training will open up additional jobs for Micronesians as they become competent to replace higher priced American

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personnel now filling many positions not requiring very sophisticated skills. In addition, there is a substantial demand for skilled and semi-skilled labor on Guam. The Mission recommends that on-the-job training programs, both at Kwajalein and by arrangement with the Navy on Guam, be explored fully to assess their contribution to edult education and to employment. In such training, particular attention should be paid to the building trades and to general mechanics, skills which are needed in the Trust Territory itself.

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Attitudes Toward Work

Micronesian attitudes toward work vary from district to district. It has been said on more than one occasion that Micronesians are erratic workers and work only enough to satisfy their immediate needs for cash. If true, this would imply that higher wages would actually reduce the number of hours worked, for given cash needs -could be satisfied-morequickly. This attitude toward cash income may still exist in some parts of Micronesia -- particularly where population density is low and subsistence living is relatively easy -- but it is certainly not a valid generalization for the entire territory. Where it is valid, it affects the timing of new programs rather than their direction, for in all but the remotest areas of Micronesia work attitudes are likely to change substantially over the next decade or two. In Palau, attitudes toward

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regular work are decidedly modern. Yap is perhaps at the other extreme, where possibilities for cash income (e.g. copra production) seem to go unexploited for want of incentive. (It should be added that the Mission was told of instances where cash income was foregone for lack of labor - time rather than economic incentive; community projects in Yap frequently create heavy demands for voluntary labor -- sometimes as much as two weeks a month.) Employment opportunities should be geared, among other things, Termination () a pernero di emploration (to work attitudes. Big projects should be especially carefully scrutinized the me to for their economic impact in those areas where an adequate labor force li maina a is not available. Resentment against or contempt for the United States Indi as administering authority is perhaps as likely to be generated by Totrà fer a employment-generating projects which fail or are obvicusly bungled -- for whatever reason, including poor labor cooperation -- as they are by failure to provide employment opportunities for those wishing to work.

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Labor turnover rates, one indication of attitudes toward wage employment, are not exceptionally high in Micronesia by comparison with young, clerical and junior professional working groups in the United States (Table 14). The very high turnover rate for Marianas indicates not only reduction in force of 55 (without it terminations would have been 37 percent of total employees in the Marianas), but also the use of Trust Territory government employment as a stepping stone to higher paying

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Table 14

Trust Territory Employment and Terminations, FY 1963

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	Trust Territory	Marianas	
1	the best we the train has been ave	orted in rout	
Total employment	2,209	430	
Terminations	465	213*	

Termination as a percent of employment by district

Ma	rianas	48*
Ma	rshalls	24
Tı	ruk	22
To	otal Trust Territory	21 - building productivity in one district
Ye	ap	20 million is Londonuths. Nost Mont-
P	alau	16 to follow a general out of instruction
P	onape	6 a needed. However, makin often it.

* Includes a reduction in force of 55 after the Navy turned Saipan's administration over to Interior; excluding these, the termination rate was 37 percent.

Note: Total Trust Territory employment fell by 16 during the year.

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jobs in Guam, where an estimated 1500 Saipanese are now living. Ninety terminations gave search for employment in Guam as the reason for leaving. The Mission was informed, however, that absenteeism is high throughout the Trust Territory, in some places as much as 20 percent of all working days. Moreover, "loafing on the job" has been reported in some districts.

Discipline through firing is at present difficult in some districts because of the limited availability of labor, so fired employees sometimes must be re-hired. Much of the "loafing" seems to result from inadequate supervisory personnel, for with proper supervision most Micronesians are capable of working hard and efficiently. For example, building productivity in the Metalanum Housing Cooperative, where close supervision is provided, seems to be several times as high as building productivity in some district public works departments, where supervision is inadequate. Most Micronesians are apparently not yet able to follow a general set of instructions; detailed supervision and guidance is needed. Moreover, custom often prevents aggressive supervision of Micronesians by another Micronesian from the same area. In the Marshalls, for instance, conventions of behavior prohibit one Marshallese from "ordering" another Marshallese to do something; similar inhibitions exist in some other districts. In those areas where such conventions impede efficient work (and foster poor working habits), the Mission recommends that Micronesians be brought from other districts as supervisory personnel where practicable; and where this would

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not work effectively (because of traditional antagonisms between different groups of Micronesians, for example), the Mission recommends that additional U.S. supervisory personnel be brought into the Territory.

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A potential problem in Micronesia, as in many underdeveloped areas, is the attitude of the "educated" toward manual work, including agricultural work. The view is widespread that education, and virtually education alone, is the route to good jobs and higher incomes. Usually this means government jobs. So long as the policy of replacing U.S. employees with Micronesians as rapidly as possible is in full swing, this favorable attitude toward government employment is not entirely undesirable; it assures that the best-trained Micronesians are attracted into government service, where thay are badly needed. With a new emphasis on more and better schooling for more Micronesians, and with less emphasis on the rapid replacement policy, it will no longer be desirable that qualified graduates look only to the government for jobs, disdaining "blue-collar" forms of employment.

The educational system should itself help to generate a more useful attitude toward work. Secondary education can in part be oriented toward skills which can be usefully applied to traditional occupations, viz. agriculture and fishing, and toward the practical arts such as carpentry and mechanics. Such orientation need not be "vocational" in the narrow sense; but it can provide the subject-matter focus on which

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other more academic training is based. For example, agricultural training would involve a heavy dose of biology, plant ecology, etc. as well as more practical training in modern agricultural techniques suitable for the local environment. The object of such a program would be threefold:

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<u>a</u>. To train students in proper techniques of farming and fishing and the reasons for the difference between these and more traditional methods.

<u>b</u>. To instill the notion that proper agricultural techniques are continually changing with new knowledge and new products and that modern agriculture requires extensive post-school professional reading.

<u>c</u>. To teach the "scientific" approach and to carry enough academic content so that those students close to graduation are sufficiently equipped to face a real occupational choice of going on in scientifictechnical pursuits or returning to agriculture, trained to approach it a modern way and without shame. Such an orientation can minimize the postgraduation disillusionment which is bound to occur if government jobs are not available in sufficient quantity and if newly acquired standards of job acceptability preclude alternative forms of employment.

Developing favorable work attitudes is desirable on many grounds, but the educational program must still have enough academic content so that the brighter students can reasonably be encouraged to go on to college; there is likely to be adequate demand in the Trust Territory for qualified college graduates for some years to come, and in addition those who choose to do so will be well prepared to emigrate to the United States or elsewhere.

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Labor Mobility

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Over-all productivity can be improved by encouraging movement from low productivity to higher productivity forms of employment. Migration out of over-populated atolls into areas of urban employment is one way of accomplishing this. If manufacturing, even on a small scale, is to operate efficiently, the dispersed labor force of Micronesia must somehow be concentrated. Within districts the availability of jobs will itself attract labor from the outlying islands, and within some districts mobility is already high, facilitated by the customary and prolonged hospitality to even distant relatives who move in. Yap, and to some extent Ponape, represent exceptions since the out-islanders are not related to those living in the district centers.

Mobility between districts is much lower; only 39 Micronesians are reported to have moved from one district to another in fiscal year 1962. Some inter-district migration has taken place: a number of Trukese reside on Ponape (and more were brought in under the homestead program), and a Palauan community exists in Yap. People from the over-crowded Nortlocks in the Truk District have expressed a desire to move to highlypopulated Tinian near Saipan in the Marianas but the Chamorros Living on Tinian are reluctant to accept the move. Several dozen government employees work outside the district of their origin, largely in headquarters on Saipan. But on the whole the geographical horizon of most Micronesians is limited to the district in which they were raised;

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in many instances other districts are regarded as no less foreign than foreign countries.

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Inter-district mobility should be increased, for several reasons. First, such mobility will help reduce the wide regional differences in population densities within Micronesia, thereby raising output and incomes. Second, it should provide labor where larger working forces are needed, as may be the case in the future in urban areas that develop processing industries, or in certain agricultural areas that develop large laborusing production. Third, it will help to break down traditional patterns of behavior which inhibit raising living standards -- patterns which many younger Micronesians now resent but are unable to avoid in their own districts. Finally, it will reduce the parochial attitudes now prevalent within each district and will increase dependence on a common culture based around the English language and modern ways.

One way of increasing mobility would be through a conscious policy of placing some qualified Micronesian government personnel as well as some secondary school boarding students outside their home districts. A valuable service performed by the Pacific Island Central School and by Xavier High School at Truk is to bring together intelligent Micronesians from all districts where the only common language is English and where students can learn about the rest of Micronesia through their informal contacts

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with other students. With the expanding high school programs in each district, PICS will probably cease to be a Micronesian-wide school. Placing government employees in other districts will serve somewhat the same function, and will have the additional advantage of insulating those government employees from traditional obligations and responsibilities which might result in conflict of interest or, as discussed further in Chapter 5, inhibit personal savings.

International mobility, while greater than inter-district mobility, is also low except in the case of Saipanese in Guam. In fiscal year 1962, 100 Micronesians are reported as having emigrated from the Trust Territory; of these, 60 were Saipanese and 32 were Palauans. Half of the total went abroad in search of further education. It is in the longrum interests of the United States and of Micronesians seeking higher living standards that such emigration, particularly to Guam and the United States, be encouraged. It would increase personal contact between Micronesians and the United States and it would provide qualified Micronesians with much wider opportunities for education and employment. Guam alone, with large U.S. military installations there, provides many more employment opportunities than are presently available in the Trust Territory, and Micronesians are prized there as workers. At present the Trust Territory has an annual immigration quota into the United States (including Guam) of only 100, and this limits emigration sharply.

The Mission feels that this quota should be greatly enlarged, and that a program should be set up to facilitate hiring Micronesians in the U.S. If Congress is reluctant to permit increased emigration to the United States, at a minimum freer migration to Guam should be permitted and, indeed, aided. In addition an expanded scholarship program for higher education in the U.S. is recommended in the Mission's report on education.

Pay Scales

Raising productivity is not only necessary to raise living standards, but also to compensate for scheduled increases in government pay for Micronesians, designed to reduce or eliminate the remaining gap between government wage rates in Saipan and elsewhere in Micronesia and to reduce the difference between pay for Micronesians and U.S. citizens in identical jobs. Still further increases in Micronesian pay are likely in the next few years. The discrepancy between Micronesian and U.S. salary scales for seemingly comparable jobs is a source of considerable resentment, and some attempt to mitigate this source of friction should be made. The Council of Micronesia has recommended that professional (C-Scale) pay for Micronesians be increased by more than 50 percent. As the opportunity and interest in emigrating to the United States increases, government wages for Micronesians will have to be raised enough to keep the desired number of qualified and capable Micronesians at home. The required professional

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wage scale is therefore linked to U.S. policy regarding emigration from the Trust Territory.

Support States

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Government pay increases, while raising some incomes directly and injecting more purchasing power into the economy, will also tend to raise the general wage level and make competition of Micronesian products in world trade more difficult, or it will perpetuate the favored position of government over other kinds of employment. While political and equity considerations require some upward adjustment in pay, corresponding efforts to raise productivity should be made. At present, financial incentives are often insufficient to encourage higher productivity. The government practice of paying time wages does not provide a financial incentive to greater effort. There is a striking contrast in the number of concrete blocks laid per day between those on time wages and those on piece wages, for example. The Mission recommends that, wherever practicable, the government contract out jobs on a payment-for-work-done basis, even when government supervisory personnel are involved. This could be done in many construction jobs, such as the building of schools, teachers' housing, and other public buildings.

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Employment Effects of Proposed Program

As already emphasized in Chapter 1, the need for additional wage employment in Micronesia will grow as the large number of postwar babies enter the labor force, as education is improved, and as Micronesians are increasingly attracted to the goods and services money will buy. To provide adequate employment opportunities or to accomplish successful emigration will be a major task. In the near future, however, the large public works and educational construction program recommended by the Survey Mission will generate enough additional jobs -- and in a few instances more than enough -- to satisfy the near-term demand for them.

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The precise impact of the program on Micronesian employment cannot be estimated in the absence of more precise estimates of total expenditures and of their timing. But Table 15 sets forth rough estimates of the local labor requirements, on the assumptions specified in the note to the table, for that part of the capital expenditure program which can be allocated by districts. As a practical matter the expenditures will not be spread evenly over the four years 1965-1968, but will probably rise toward the end of the period. Some disbursements will probably take place after 1968. Both prospects are consistent with future employment requirements.

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Over-all labor requirements of the program can be satisfied, even when allowance is made for rising requirements over the period, except possibly in the Yap District. In Yap labor requirements may possibly exceed the need for jobs in the next five years, and in that event it would be desirable either to stretch out capital expenditures in these districts so that jobs will be provided over a longer period, or to import labor from Truk or Palau, where both population and the demand for jobs are greater. The employment requirements in the final column of Table 15 should be compared with the adult male population in each district shown in Table 5 (page 19).

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The incomes generated by expenditures on the construction program will result in higher expenditures on imports and on local goods and services. Some of these expenditures will create additional local employment. For reasons discussed in Chapter 2, this "multiplier" effect will not be large -- every two additional persons working on public projects might create enough local demand for one additional job or a little more -- but it should also be borne in mind when programming public expenditures.

The four-year capital expenditure program will provide time during which employment opportunities in business-type operations can be developed, and with adequate programming four years should allow

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II-A-3

Estimated Labor Requirements for Proposed Capital Expenditure Program, by District, 1965-68

(- <u></u>	Capital Expenditure*	Micronesian Payroll	Man-hours	Men Per Year**
	(\$'000)	(\$'000)	(1000)	
Marianas	2,050	717	1,792	224
Marshalls	6,250	2,187	5,467	683
Palau	3,700	1,295	3,237	405
Ponape	5,900	2,065	5,162	645
Truk	5,100	1,785	4,462	. 558
Yap	3,700	1,295	3,237	405
Total	26,700	9,344	23,357	2,920

* Excludes ships and other equipment.

** Assuming 2,000 working hours per year, and 4 full years.

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Note: Total payroll is assumed to comprise half of capital costs, and Micronesian payroll is assumed to comprise 70 per cent of total payroll. The average hourly wage for Micronesians is assumed to be \$.40. ample time. As the labor requirements for the capital expenditure program taper off after 1968, commercial operations (discussed in the next chapter) in agriculture, fishing, manufacturing, and services should be ready to absorb the released workers.

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II-A-4

AGRICULTURE, FISHING, MINING, AND MANUFACTURING

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Agriculture

The economy of Micronesia is largely agricultural, and agricultural production takes place largely for local consumption. The crop composition varies somewhat from district to district, especially as between the high volcanic islands and the low coral islands, but virtually everywhere the coconut, taro, breadfruit, and pandanus are found, and the first three are the major food crops in Micronesia. Pandanus leaves are used for weaving, and the fruit is only a supplementary food. In general the most efficient agricultural techniques are not used. Land use -- plant selection, spacing of plants, and inter-cropping -- is poor, and virtually no fertilizer is used in the Trust Territory despite the great improvement in yields which would result. But outside of a few areas the land and the surrounding water produce enough to feed most island populations adequately most of the time, although there is frequently some malnutrition (due to lack of a balanced diet) and, especially in certain densely populated areas where the breadfruit is important, there is an annual cycle offeast and famine.

In many parts of the Trust Territory land is held communally -- an extended family, or clan, claims ownership -- but use rights are often

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allocated to individual adult members of the family. Sometimes the use rights of an individual piece of land will remain with an individual throughout his life, reverting to the clan for reallocation on his death.

In other places the land is reallocated more frequently, so a person does not use a particular piece of land for an extended period. Land use rights often cover many small, widely scattered pieces of land, with the resulting loss of time in moving from one to another. These land practices are not conducive to individual investment in land, and they probably reduce agricultural productivity. Some individual homesteading of land has been done in Ponape, Palau, and the Marianas, but it is too early to test the success of the program. The homestead program provides little other than land and certain specifications regarding planting; however, there is insufficient technical guidance and none of the financial aid which is required to get homesteaders into efficient agricultural production. Moreover, no account is taken of land quality in the homestead program, so productive land varies widely among homesteads. Finally, some land is under lease from the government. Since in many cases the future status of these leases is uncertain, Micronesians holding the leases do not know whether they will be allowed to take title to the land, whether the leases will be affirmed and continued, or whether they will be moved off the land. This problem seems especially acute in Ponape.

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The main market crops in Micronesia are the coconut (in the form of copra), fruits and vegetables (especially from the Marianas), and, increasingly, cacao. In addition, produce such as taro and sweet potatoes are sold locally in the district centers, and some beef cattle are slaughtered and sold in Saipan.

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Economic progress in agriculture can be divided into the development of new commercial crops and the improvement in production and marketing of existing crops. There has been too much attention paid in the Trust Territory to new crops and not enough to the commercial development of existing crops. Cacao, pepper, and ramie have all been introduced and passed through a period of experimentation to the point at which some small amount of output is now being marketed. Other products, such as coffee, tobacco, and various fruits and nuts are still in the stage of experimentation. While it would be desirable to find products which will do well in Micronesia and for which there is a substantial world market, it is doubtful whether the administration of the Territory is equipped to do this kind of work efficiently and whether the Micronesian farmers have yet reached the stage of agricultural sophistication where they can take on new crops and make them a commercial success.

It is not sufficient that a product grow well in Micronesia to warrant the expenditure of substantial resources toward its development; it must also be profitable to grow it. More critical attention should be

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paid to the economic prospects of new products in the area; most such products must compete for land and labor with the coconut and other products which are known to be marketable at a profit. Considering the substantial technical assistance and persuasion required to introduce a new crop among uneducated farmers, the pay-off to such a crop must be high relative to improvements in crops which they know in order to warrant devoting resources to the new crop. There is a tendency to hope that there is agricultural gold or oil around, and it is just a question of finding the right product. The Trust Territory is not staffed to do the kind of agricultural and market research required to develop new products successfully. Recommendations in the Mission's report on agriculture suggest transferring agricultural research to a university or research institution interested in tropical agriculture. The Programming and Development Contractor, discussed later in this section, would include qualified personnel in agricultural economics. When a new agricultural product does look profitable on a commercial basis it might be established as a direct government venture to be transfrred to private enterprise (e.g. a farmers' cooperative) once it was well established.

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Several undeveloped possibilities for marketing products which are known to do well in the Trust Territory seem to exist. For example, the market for produce and meat is very large compared with production in the Trust Territory. There are 11,000 U.S. Navy personnel and 8,200

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Air Force personnel on Guam, in addition to 50,000 other residents. The Navy alone provides a large relatively unexploited market. Demand for meat and produce on Kwajalein is also substantial, and can be expected to grow rapidly in the next few years. Tables 16 and 17 indicate roughly the size of these markets. In addition, there is substantial unsatisfied demand for fish and produce in several of the district centers within the Trust Territory.

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These markets far exceed the potential output of Micronesia for some time to come. The principal obstacles to development of these markets revolve around quality control and reliability of supply. Produce quality must meet whatever U.S. legal standards are required and must meet the standards of uniformity which are available in purchases in the United States, or else compensate adequately with lower prices. Achieving high, uniform quality in commercial crops is not an easy job, and it will require close guidance by U.S. personnel until Micronesian businessmen or cooperatives can take over the job of policing agricultural sales and inducing the farmers to improve quality and reliability of production supply. The main obstacles to reliable supply, however, are the transportation system and the absence of adequate chill storage capacity. Shipping schedules are neither frequent nor regular enough to permit the development of continuing commercial relations. The Mission's report on transportation spells out recommended improvements in the system of surface

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Table 16

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Produce Consumption by the U.S. Navy

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		Monthly	Monthly Demand in Pounds	
	Guam	Guam	Pacific Missile	
Fruit or Vegetable	Unit Price	· · · · · ·	Range, Kwajalein	
Papaya	.15	300	n.a.	
Avocados	.23	500	800	
Pineapples	.04	4,000	n.a.	
Cucumbers	.07	5,000	1,500	
Bananas		n.a.	2,500	
Broccoli	.16	200	n.a.	
Cabbage	.04	35,756	4,800	
Cabbage, Red	.06	1,650	n.a	
Garlic	.41	1,032	200	
Lemons	.13	11,891	2,000	
Lettuce (leaf)	.12	29,180	9,000	
Limes	•59	. 350	250	
Onions, dry	.04	25,937	10,000	
Onions, Yellow	.11	9,786	n.8.	
Onions, White	.11	1,000	n.a.	
Onions, Green	.14	2,520	1,200	
Parsley	.16	444	100	
Peppers	.13	3,920	1,600	
Potatoes	.04	147,425	40,000	
Potatoes 10# bag	.05	4,960	n.a.	
Radishes	.n	2,760	400	
Romanine	.08	4,560	1,000	
Rutabagas	.06	340	n.a.	
Turnips	.07	1,020	n.a.	
Yams	:08	1,400	n.a.	
Grapefruit	.11	7,322	2,100	
Grapefruit, Pink	.11	1,020	n.a.	
Honeydew Melon	.09	6,000	2,000	
Nectarines	.21	2,000	n.a.	
Oranges	.14	33,806	7,500	
Orange, Temple	.14	3,000	n.a.	
Orange, Val	.21	9,000	n.a.	
Tangelos	.21	4,000	2,000	
Watermelons	.05	25,000	8,000	

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Table 17

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Meat and Poultry Consumption by the U.S. Navy

Guam		Pacific Missile Range	
Pou	nds Per Month	Unit Price	Kwajalein
Beef	80,000	.3639	33,000
Pork	27,000	.40	9,000
Ham (canned)	24,000	.4565	7,500
Bacon	18,000	.3945	3,000
Poultry	115,000	.2734	15,000
Eggs	39,000*	.1978	15,000*

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and air transportation. It is sufficient to mention here that such improvements are essential if the Trust Territory is to capitalize on the existence of substantial potential markets for Micronesian agricultural products within Micronesia.

A separate part of the Mission's report treats in greater detail the land ecology in Micronesia, the possibilities for agricultural improvements, and the functioning of the Trust Territory's department of agriculture. The major recommendations of the agricultural report are brought together here, however, because of the central role which agriculture must play in the steady development of the Micronesian economy. More extensive discussion of these recommendations can be found in the agricultural report, where the agricultural program is considered district by district. Here the recommendations are grouped into three categories: (A) those which will produce results in the relatively near future, say by 1968; (B)those whose payoff will require a longer period of time; and (C) administrative changes.

(A) 1. An undetermined but large amount of copra, coconut, and other usable products is lost through rodent and pest damage. A rat control program should be undertaken at once in those areas where the limits on output are land rather than-labor, and should be extended gradually to—— other areas. -Programs to control or eliminate the Marianas beetle and harmful fruit flies should also be instituted. Finally, a more extensive

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quarantine program should be inaugurated; especially at Kwajalein where hundreds of tons of food products enter Micronesia annually without inspection. Like human diseases, plant diseases and harmful insects can enter Micronesia and do tremendous damage.

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2. Production of cacao beans is expected to rise sharply in the next few years, and enlarged fermentaries at Ponape and Truk are essential to prepare the beans for market.

3. The program for introducing carabao as beast of burden into Palau should be enlarged. Moreover, beasts of burden such as burros should be introduced into rugged high islands such as the northern Marianas and Ponape to haul copra.

4. Micronesians should be encouraged to use organic fertilizers. The tropical soils are poor and agricultural output could be increased substantially with the use of fertilizer. This will require some increase in agricultural extension work and some experimentation with the use of local products, particular marine life, as fertilizer. Effective use of imported chemical fertilizers should also be encouraged where the crop is sufficiently marketable to pay for the imports.

5. Local livestock and poultry should be improved with the introduction of pure strains, and livestock feed crops should be encouraged. At present swine and poultry are left entirely to scavenge

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for themselves, with resulting inefficiency in meat and egg production. This too will require more extension work.

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(B) 1. The present program for replanting coconuts should be continued for another four years, during which time an estimated 800,000 trees can be planted, primarily in Ponape and the Marshalls.

2. A program of afforestation should be started on most of the high islands. These islands once supported substantial stands of commercially valuable hardwoods, but uncontrolled cutting and other factors have reduced the forests to scrub and scattered individual trees. Afforestation is desirable for soil protection as well as to generate a local source of building materials for houses, boats, furniture, and so on.

3. On many low islands windbreaks to reduce salt spray are necessary before badly needed vegetables can be grown. A program for planting salt-resistent trees as windbreaks should be inaugurated, especially in the Marshall Islands.

4. New, disease-resistent varieties of citrus trees should be introduced where they will grow, with the ultimate objective of replacing the numerous citrus trees now plagued by citrus canker.

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5. Castor beans should be introduced on a pilot basis on the low coral islands to provide an alternative cash crop to copra. If successful, an extensive tree planting program could be undertaken.

6. The possibility of growing bananas in exportable quality and quantity should be explored in detail, and the feasibility of rice cultivation with a view toward reducing the more than \$500,000 annual imports of rice should be undertaken.

7. The Farm Institute (agricultural training program) should be expanded from its present capacity of 12 students to at least 50 students, with the understanding that it is an agricultural training school and not a school exclusively for training agricultural extension agents which will automatically lead to a government job for all graduates. In addition, a mechanism for disseminating information to agricultural extension agents and other interested parties should be established -- perhaps a monthly circular containing information useful to Micronesian agriculture.

(C) 1. The Department of Agriculture should be reorganized so the Director of Agriculture has direct authority over District Agriculturists and can coordinate the agricultural program in the entire Trust Territory. Moreover, the District Agriculturists should be absolved of their present

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responsibilities for cooperatives, credit unions, and other development efforts -- a Cooperatives Officer should take over those functions in each district -- and of their research responsibilities. Finally, new agricultural substations for propagation and agricultural extension work should be established in several of the districts.

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2. Basic agricultural research should be placed in the hands of a qualified research organization. The College of Tropical Agriculture of the University of Hawaii has expressed through a letter from the President of the University a general interest in establishing a research facility in the Trust Territory under contract, and suggested a shortterm contract to study the feasibility and recommend the location and scope of such a facility. This possibility should be pursued. In addition to a general arrangement bringing a research institution into the area, the Director of Agriculture should have a Specialist Fund for hiring agricultural specialists, including those at the research facility, on a short-term basis.

The total annual budget required to implement the recommended agricultural program is about \$800,000, of which \$515,000 is for personnel. This compares with a total agricultural budget of \$705,000 in fiscal 1964. The contingency fund of \$100,000 for hiring specialists is not included in this estimate. In addition, \$250,000 is recommended for a revolving loan fund to provide small loans to farmers, and \$60,000 is recommended

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to establish a small pool of agricultural equipment for lease to farmers off-shore fishing of polagic species, notably tune, from boats of 50 or in the Marianas.

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Several commercial-type agricultural operations seem to offer

enough promise to warrant detailed exploration: a ramie plantation at mere seen to be inner colliment to choose an inner an ended Palau, a cattle ranch and slaughterhouse on Tinian, a large produce farm on Rota, etc. While agricultural, these operations would be commercial transportation to markets. These partors are test and the mercial in intent and should be operated by the development contractor (see below) district of the example of transferring them to private hands as quickly canned the objective of transferring them to private hands as quickly canned the objective of the department of agriculture. These But both in Romape and Palau inshere fishing in periodically stopped business operations are discussed further later in this chapter. --because the modest limits of considering thematicy are reacted to the

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While the marine resources in the Trust Territory have never been thoroughly surveyed, the presence of Japanese fishing ships in open water and the large inshore catches by Micronesians indicate an abundance of fish and other edible marine life. Despite this, there is a shortage of sea food in the area. The Trust Territory imports over \$200,000 in in Ferrie and the demand for fresh lagoon fish in such "urban" areas as Ebeye, Majuro, and Moen (Truk) often goes unsatisfied.

Two types of fishing are possible in Micronesia, and each presents Separate problems. The first is inshore fishing, generally within or just

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outside the barrier reefs, by net, line, or spear gun. The second is off-shore fishing of pelagic species, notably tuna, from boats of 50 or more feet in length. Lagoon fish are desired fresh; but except in a few places fresh tuna is not liked.

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There seems to be three bottlenecks to catching and marketing inshore fish in greater abundance: ice, chill <u>st</u>orage capacity, and transportation to markets. These factors are not all lacking in all districts; in Majuro, for example, a reefer is being used to store canned goods because there is not enough fresh fish or produce to use it. But both in Ponape and Palau inshore fishing is periodically stopped because the modest limits of cold storage capacity are reached before the fish can be exported to other areas. Transportation from areas of excess supply -- Palau and sometimes Ponape -- to areas of excess demand ---Majuro, Kwajalein, Truk, and above all Guam ---is_inadequate____ and irregular. Development of commercial inshore fishing could proceed much further if these obstacles were eliminated.

In Ponape and Palau fisherman's cooperatives have been organized as clearing houses for keeping production records, arranging for storage, marketing the fish, and paying the fishermen. These organizations still need further guidance, particularly with respect to record-keeping and general management, but on the whole they seem to be very promising.

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When the cooperatives are capable of extending their operations they could Sherencouraged to provide other services to the fishermen, such as stocking fishing supplies and perhaps arranging for the care of small boats. Similar cooperatives might also be started in Truk and Majuro, where the local-demand for fish would justify better organized systems for catching and marketing than now exists.

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In addition to improvements in inshore fishing, there is some there -- but again the resulting ortionmenomic unlikely to be great. possibility of developing the modern industry of deep-sea fishing. World the second s demand for edible pelagic fish is expected to double to 800,000 tons annually in the next decade, and a substantial part of this increase will present very few Micronesians are unnined in the kind of fishing apparently have to be supplied with the smaller and less desirable required, and the Won Camp contract fails or encoder the number of skipjack tuna, a species abundant in Micronesian waters. Successful Cromer, and to be trainer. Attrainer the cider uncertainer apparent. skipjack tuna fishing depends on plentiful sources of live bait within anters that as replair as possible the Ohinawan fishermen prought in to the vicinity of the fishing zones, so many more fishing bases are required 2 de 25 - 5 . than for larger tuna, which can be caught with frozen bait. Parts of noveran, that ilenothiz"s wages in the Obigotten Shate obigo. Van Carg

Micronesia are well suited to skipjack fishing, and it is known that live bait sources were sufficient to support a substantial Japanese tuna fleet in the area just before World War II. Unfortunately Micronesians today have neither the equipment nor the technical skill to undertake deep-sea fishing, although 28 Micronesians are now training in Hawaii.

The Van Camp Company has been given a contract to establish a tuna fishing base and freezing plant at Palau, where it will land and

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freeze fish for shipment to canneries in American Samoa or the United States. The letting of this contract seems to have raised unrealistic expectations, especially in Palau, about the amount of employment and income which will be brought into the Trust Territory in the near future. from tuna fishing. The Shore-side employment requirements of a freezing plant, once it is built, are not high; servicing the fishing boats could also generate some employment -- if the facilities and skills were there -- but again the resulting employment is unlikely to be great. In the absence of a cannery, the most important impact on employment would result from staffing the fishing boats with Micronesians. At present very few Micronesians are trained in the kind of fishing required, and the Van Camp contract fails to specify the number of Micronesians to be trained, although the clear understanding apparently exists that as rapidly as possible the Okinawan fishermen brought in to supply the fish will be replaced by Micronesians. The Mission was told, however, that fishermen's wages on the Okinawan boats which Van Camp plans to use are so low that Micronesians will probably not be willing to work on them in significant numbers and consequently will never replace the Okinawan fishermen. By contrast, Hawaiian tuna fishing techniques, using more expensive Hawaiian-type tuna boats, permit incomes which would attract Micronesians into tuna fishing.

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A second defect of the contract is that it fails to specify will auchase could not see the any rule for determining the price which will be paid for landed fish. As a monopolistic buyer in Palau, Van Camp will be able to set the lowest price consistent with the volume of fish required. A greater flow of income into the Micronesian economy could have been assured by linking the buying price to some widely recognized world market price (e.g., the

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Finally, the contract's stipulation that the live bait resources shall be reserved for the people of Micronesia is inconsistent with Van Camp's present plans for establishing skipjack tuna fishing with Okinawan boats and crews.

It is now too late to re-write the entire contract, but the High Commissioner (subject to Defense Department veto) does control the entry into Trust Territory ports of Okinawan fishermen and of foreign freighters, as well as Japanese fishing vessels (from whom Van Camp is interested in buying the larger size tuna). He should use this leverage to assure that the long-run interests of Micronesia are served by training Micronesians to fish and by conserving their sources of live bait. At a minimum, a "statement of objectives" should be agreed in writing between Van Camp and the Trust Territory government. Such a statement would stipulate that the tuna operation is to be for the mutual

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benefit of Van Camp and the Micronesian people and to that end Van Camp will purchase equipment and use fishing techniques suitable for the speedy employment of Micronesians. Such an agreement would provide a rationale for punitive action if Van Camp seemed to be relying indefinitely on Japanese and Okinawan boats and fishermen for its skipjack. In addition to such a statement of objectives, it would be highly desirable to get a firm agreement from Van Camp on the rate at which Micronesians are to be trained as skipjack fishermen.

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It should be recognized that a commercial fishing operation requires large volume if it is to be successful. No operation, particularly one which relies on training Micronesian crews, will generate substantial volume rapidly. It is commercially advantageous, and possibly essential, to use the excess freezing capacity while catches of skipjack are still small to freeze yellow-fin tuna caught in the area by Japanese fishermen. Van Camp's request to permit Japanese tuna boats to land their catches is not unreasonable. To permit Japanese boats to land without bringing into play Article 8 of the Trusteeship Agreement, requiring that equal treatment be given to all UN members beyond the administering power, a contractual arrangement between Van Camp and certain Japanese fishermen could be worked out and only specified boats would be permitted to land their fish.

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Additional employment could be generated by establishing a factory in Falau to can tuna. The Mission has been told that the main obstacle to opening such a fish cannery is the 45 percent U.S. duty on fish prepared in oil. As a general recommendation, the Mission favors a change in U.S. tariff laws to permit products with 50 percent or more of the value added in the Trust Territory to enter the United States duty-free, and the extension to the Trust Territory of the same legislation covering the landing of fish in Guam and American Samoa. Such a change would facilitate greatly development of Micronesia's marine resources in a way which would provide maximum benefit for the Micronesians. The Mission is aware that there is domestic recistance from Pacific Scast fishermen on this point, but in addition to other considerations, the greater the economic development of the Trust Territory, the smaller the financial burden on the United States.

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Large scale commercial offshore fishing should be encouraged in other the of Micronesia. There are three ways this might be done:

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a. The Fisheries Project could buy or build fishing boats and hire Japanese or Okinawans to train the Micronesians in offshore fishing techniques.

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Given the potential importance of fishing in the Micronesian economy, the Mission feels that the Trust Territory's Fisheries Project should receive greater budgetary support than it is now getting. In fiscal year 1964 the final budget request for fisheries was \$52,000 (plus \$15,000 for boat-building), compared with over \$700,000 for agriculture. This budget covers the operation of a fisherman's school, support to local fishermen's and boat building cooperatives, and the main job of fisheries research and market development. The Fisheries Project has requested a budget of \$140,000 for fiscal year 1965, a budget which provides for additional U.S. personnel and equipment, and which also provides for opening a second Fisheries Station, at Truk. The Mission feels that a budget increase of this magnitude is justified, although it would place fisheries research outside the Fisheries Project, as discussed below. Fisheries Stations outside of Palau would lay the basis for larger scale and more efficient inshore fishing in other districts. —

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Detailed fisheries research is not a responsibility which should be placed on the Fisheries Project. It lacks qualified staff and its other responsibilities are too numerous and too important to be diluted by the requirements of a major research effort. Yet systematic research is required in Micronesia if sound conservation practices and optimum exploitation of the marine resources are to be achieved. The Mission recommends that some qualified research organization be invited into

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the area to establish a station for the use of scholars and graduate students pursuing marine research. If the Trust Territory wished specific studies to be performed, it could then contract for them using the facilities of the research station. Tentative approaches to the Marine Laboratory of the University of Hawaii (which already has a small facility on Eniwetok) suggested that a mutually satisfactory arrangement could be worked out for the study of inshore marine resources. The Mission was told that the U.S. Bureau of Commercial Fisheries, based in Hawaii, was best equipped to study offshore pelagic fish, so the Trust Territory government should discuss with the Bureau the possibility of minter in the den nas noción 122 extending its research into Micronesian waters. In addition, the Scripps Oceanographic Institute has indicated it would be interested in working with the Bureau of Commercial Fisheries if it were to undertake the job. the first of the sector of the state of the

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Mining and that the Trust Territory percentions he sided in care

The mineral resources of Micronesia are meager, but two mining operations existed before the Second World War in the Palau District: phosphate on Angaur and bauxite on Babelthuap. The phosphate is of good quality and is a fertilizing mineral badly needed in the Pacific area. Mining was continued after the war (resulting in large export receipts in the early fifties), but was halted in deference to the people of Angaur, since stripping the overburden off the phosphate eliminated the arable land. If in future the people of Angaur decide to move to the

relatively unpopulated island of Babelthuap, consideration should be given to resuming the phosphate mining operations.

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The bauxite on Babelthuap is of low but apparently usable quality under certain conditions. Given its low quality, it is too far from U.S. mills to be of interest to them at present; but several Japanese firms familiar with the area have expressed interest in re-opening the bauxite mines. One of these, Yawata, proposed a combined operation with Kaiser Aluminum, but there seems to be little interest on their part now that their representative visited the area. The Mission has nothing to contribute in this matter, except to suggest that any serious proposal for resuming bauxite mining be examined, in the light of recent changes with respect to U.S. security requirements in the area, with an open mind for its impact on Micronesian employment and incomes, and that the Trust Territory government be aided in any contract negotiations by qualified persons.

Light manufacturing

The possibilities for developing competitive manufacturing industries in Micronesia are distinctly limited, and that fact should be recognized at the outset. There are just too many disadvantages for substantial industrial production: paucity of raw materials, great distance from large markets, small local markets, and a small, poorly

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trained, and generally undisciplined labor force unwilling to work at wages as low as those in many other underdeveloped countries.

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Despite these substantial disadvantages, there do seem to be several possibilities for developing small scale industry to produce some of the goods which are now imported, and even for developing exports to a limited degree. The Trust Territory needs some method for systematic evaluation, through feasibility studies, of those possible ventures which look as though they have commercial promise; and it further needs to be able to play an active role in organizing and financing the ventures which seem worthwhile. Very little manufacturing is likely to develop spontaneously in the Trust Territory. Initiative, technical guidance, capital, and management all may have to be supplied at least in part by the government. The Trust Territory government is not presently equipped to provide all these missing ingredients from an economic development program, and the Mission feels that resources and time would be largely wasted in attempting to so equip it. Of critical importance in the development effort which the Mission has in mind is a practical, business orientation toward possible commercial ventures.

The Mission recommends, therefore, that a firm from the U.S. private sector with suitable experience and expertise be contracted to ______ Perform two broad sets of functions on an advisory basis: (A) acting as an over-all programming office to assist the High Commissioner in

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drawing up budget priorities; and (B) promoting the economic development of the Trust Territory. This Programming and Development Contractor would have the following responsibilities:

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A. Programming function:

- To program and coordinate budget priorities for all capital expenditures by the Trust Territory and for those current expenditures which bear on the economic development of the area, such as agricultural extension work, vocational training, and the like;
- Assist the High Commissioner in the technical problem of coordinating the remaining budget components.

B. Development function:

- To provide technical and managerial assistance to Micronesian businessmen who seek it and to interest businessmen in undertaking ventures within their competence;
- To help finance private ventures through loans from a Development Fund (described below) or through guarantees on private loans;
- To undertake direct ventures, both agricultural and industrial, which seem commercially promising-but-are-unsuitable for Micronesian businessmen to manage at-the time.

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The Programming and Development Contractor would establish a compact organization within the Trust Territory government and its director would be responsible to the High Commissioner. Aside from its small permanent staff, the Contractor would bring in the requisite experts for such length of time as seemed necessary to launch a particular enterprise or to provide specific technical assistance. Its permanent organization would provide a highly qualified planning and programming staff to the High Commissioner, whose integrated expertise, experience, and businesslike organizational efficiency he could not easily achieve in Micronesia through the alternative of hiring individual programming personnel on a civil service basis. Certainly, at best, it could not be achieved rapidly enough to meet this top priority for the efficient execution of the capital investment program needed in the Trust Territory. It is envisioned that this contractual service would eventually give way to a comparably efficient governmental staff as the needed Micronesian expertise developed.

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Hiring the Programming and Development Contractor would require negotiation with several of the qualified firms in the field of economic development and management. After preliminary discussions an interested firm would doubtlessly want to send a representative to Micronesia to ascertain the character and dimensions of the job and to establish the principles and coverage of the final contract. It is not possible to

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specify in advance of such a survey precisely how much the contract would cost, but on the basis of its research the Mission believes that it should be in the neighborhood of around \$200,000 a year. Special technical assistance brought in for short periods of time would be financed separately, and management of direct ventures would be financed by each venture.

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A Development Fund of \$5 million should be established to supply capital, under the technical direction of the Programming and Development Unit, but subject to control by a Board, to promising business enterprises in Micronesia when local capital is not available in sufficient quantity. Capital is only one of the missing ingredients for the economic development of Micronesia, and without the adequate technical and managerial guidance which the Programming and Development Unit can provide, capital is not likely to be used effectively. But without additional capital the economic progress of Micronesia will falter from the start. A fund of \$5 million should be adequate, when supplemented with local capital and private American capital, to launch those agricultural and industrial Ventures which show commercial promise.

The Development Fund would supply loan capital to qualified local businessmen or farmers, would supply equity capital in joint ventures with Micronesians or with U.S. businessmen investing in Micronesia, and would finance direct ventures staffed by the Programming and Development Contractor and run on a commercial basis. Overhead expenses in administering

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the Fund should be covered in the Contractor's fee, which would be part of the Trust Territory government's annual operating budget.

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The Fund should plan to sell any equity interest (or convert it to fixed debt instruments) as rapidly as qualified Micronesians or joint U.S.-Micronesian groups are able to take over a business venture. Some ventures might best be reorganized as producers' cooperatives, while others would more appropriately require individual business management or a corporate structure.

Consideration should be given to permitting the Fund to borrow additional capital in its own name from the Angaur and Saipan Trust Funds, from the banks established in the Trust Territory, or even from the public in the Trust Territory, Guam, and the United States. This Possible privilege would permit local banks and savers to purchase good securities without worrying about the outlook for any particular enterprise, and foreigners could invest in the area indirectly through the Fund.

Day-to-day management of the Fund would be the responsibility of the Programming and Development Contractor, which would be responsible to a board of directors on which the High Commissioner and the Council of Micronesia would also be represented. A liaison with the Guam Development Commission (possibly through the use of the same Contractor by Guam) should also be established for greater economic coordination between Guam and the Trust Territory.

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The recommendation to bring in an outside contractor is no reflection on the present staff, which does not have, and cannot be expected to have, the degree and diversity of expertise required for systematic economic development of the area. Launching a development program requires complex teamwork among a number of qualified individuals, plus the ability to draw quickly on skills which are needed for a short period of time. A number of firms have built up knowledge and experience in dealing with the problems of underdeveloped countries, and this knowledge and experience should be brought to the Trust Territory.

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The Mission does not wish to impose limits on the income- and employment-generating projects which the Programming and Development Contractor should explore. However, the following list of ventures represents its judgment of the more promising projects for promoting the economic development of Micronesia.

Coconut Oil and Soap. Copra, the raw material for coconut oil, is the most important produce of Micronesia. About 13,000 tons of copra are produced annually, half of which comes from the Marshall Islands. Improved copra storage and more regular collection in the outlying islands alone could apparently raise copra production in the different districts by amounts ranging up to 40 percent, while thinning out old trees and replanting could, in time, raise output even further. Today the dried copra is shipped to Japan for processing into coconut oil and cake

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and thence-into further fabrication. Some employment could be created in Micronesia by doing some oil extraction and further processing there. Coconut oil is an expensive vegetable oil and is used in fine soaps, shampoos and detergents; ordinary soaps and detergents are now imported into the Trust Territory in amounts exceeding \$50,000 per year. Odorless coconut oil can also be used as a cooking oil, which is also imported in some quantity. Coconut cake, the residue after the oil has been extracted, can be used as fertilizer and as a livestock feed, both badly needed in the Trust Territory. Of less importance is the fact that a high-protein baking flour can be made with still further processing.

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Oil extraction can be done in large or small volume, although the larger scale operations are substantially more efficient. A simple oil extractor with a capacity of about one ton of copra a day, yielding roughly 1200 pounds of oil, can be purchased for about \$1500 in Japan. A more efficient oil mill with a daily capacity of about 70 tons of copra can be erected for around \$400,000 on one estimate. Working capital requirements would make this 70-ton mill somewhat more than a million dollar investment. It would require much water to operate, and the logical location of Majuro would be ruled out unless additional water could be collected. However, making the airfield into a water catchment, as recommended elsewhere in this report, would produce water far in excess of a

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mill's requirements and would meet Majuro's general water needs. A relatively new oil extracting process, now being tested in the Philippines, requires virtually no water, and this should be studied as an alternative by the Programming and Development Unit.

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One large mill could provide whatever oil and cake were required for the local market and the rest could be exported to the United States, where the imports of coconut oil run 75 - 100,000 tons annually, mostly from the Philippines. (Japan, which now imports copra from the Trust Territory, has a prohibitive duty on oil imports.) If necessary, shipping rates within the Trust Territory -- which now favor the shipment of copra -- could be adjusted to give greater preference to oil and cake.

The process of extracting oil would put \$5-10 a ton into the Micronesian economy for wates and other services. In addition, some oil and coconut cake could be processed further -- oil into soaps and cake into livestock feed. An average hog or steer can consume 1/2 - 3/4 tons of coconut cake annually, so a 10,000 head herd of cattle on Tinian (see the Mission's report on agricultural programs) alone could absorb up to 7,000 tons of cake a year, just about the production of a mill with a daily capacity of 70 tons of copra. Coconut cake alone can make up 40 Percent of a hog's diet, so swine herds could be built up to the availability of the coconut cake if other feed (for example ground fish) Were also available.

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There is now one soap manufacturer in Palau. He manufactures soap for the local market, retailed through his own store, for about three days every two months, employing six men in the process. He also exports some soap to Ponape and has produced some for the Trust Territory government, although wrapping before thorough drying resulted in a 75 percent rejection rate on a large order. The soap lathers and washes well but retains a lingering odor of coconut which could be eliminated by the proper cooking of the extracted oil. The soap could also be perfumed, for example with ylang-ylang blossoms, found in abundance both in Palau and on Ponape. Crudely cut soap can be produced to compete with the greatly inferior brown laundry soap now widely used in the Trust Territory. The main obstacle to larger sales is consumer buying habits, but at Ponape a gradual substitution of the Micronesian soap for the brown laundry soap is reported to be taking place. To compete with the wrapped toilet soaps, considerable technical help on hardening, flavoring, and packaging is required. The costs of competing in this market do not look prohibitive, but consumer buying resistance might require a territorial tariff during the first few years to help get the soap accepted.

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Other coconut products. In addition to oil and coconut cake, the coconut provides a shell which can be made into buttons or charcoal and a husk which yields coir fiber and fiber dust. The fiber can be made

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into yarn, rope, upholstery material, or miscellaneous household items such as brushes. Coir fiber dust can be made into a variety of building materials, presently in short supply locally and expensive to import, such as fiber board for interior walls and insulation. Each of these offers some possibility for manufacturing, though largely for the Micronesian market. Some pilot project work with coir fiber is shortly to begin in Truk.

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Lumber and woodworking. Lumber is another building material available in a few parts of Micronesia. Sawmills exist on Kusaie and Palau, where good timber is available but only in scattered stands. Sawing lumber is a haphazard affair on Kusaie, but in Palau mills operate quite regularly when construction is going on. Fine timber also is found on Ponape but it is so inaccessible that it is not now economical to fell. The new road system that the Mission is recommending in Ponape, primarily for other reasons, would open up some exploitable timber areas.

There is an urgent need and, to some extent, a money-backed demand for reasonably priced building materials in Micronesia, for much of the housing is recognized to be in need of renovation. Even where cement is largely used, there will also be a demand for lumber from the continuing government construction program of schools, teachers' housing and other public building. Local mills could, with proper organization and capital, profit from this demand. Kusaie faces the

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difficulty of transporting lumber to the areas of high potential demand such as Ebeye and Majuro, and irregularity in transportation is reflected in irregularity in lumber production. All sawmills face a severe shortage of working capital, as well as some essential equipment in certain mills, so they are unable to cut to stock standard sizes and allow the lumber to cure for the appropriate length of time.

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Micronesia lacks extensive stands of good timber, but at present actual cutting rates the timber supply is adequate. Local sawmills should be drine: assisted in modernizing, however, and should be encouraged to supply encorrect local private and government demand. Any sharp increase in demand will require a more extensive source of timber, and until the forest planting program recommended by the Mission can supply it either the Philippines or New Guinea timbers could be used. At present, Philippine lumber must be transhipped twice before landing in Palau, and is thus uneconomic, but the recommended improvements in surface transportation should permit occasional trips to the Philippines for stripped logs or crude cut lumber to be reduced and milled in Palau.

The Palauan Woodworkers and Handicraft Guild obtained a modest order for furniture to supply some of the new schools. While the final returns are not yet in, the venture looks very promising. More such orders (which can result in considerable savings for the government) should be directed toward such indigenous factories, and they should be aided in developing a local market for their products. Relatively little technical assistance in design is needed for supplying these government contracts but working capital aid is essential.

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<u>Food processing</u>. Micronesia imports large quantities of canned and packaged foods. Some of these foods compete closely with products which can be produced within the Trust Territory, such as fish and pineapple; and others, such as gelatins, ice cream, non-carbonated soft drinks, etc., are made from simple raw materials which could be imported and processed for the local market.

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Much simple food processing, however, relies on canning; many fruitful lines might open if there were a cannery in the Trust Territory. Palau, with a relatively able labor force seeking employment and an agricultural hinterland in Babelthuap, would provide a good location for a cannery operation, which could be operated as a direct venture and could also be leased to small private enterprises arranging their own supplies of materials. Many products could be canned for the local market: fish and other marine life, kamaboko, fruits such as pineapple, and fruit juices, jellies or jams from the guava, acerola cherry, passion fruit, custard apple, and a host of others. The tanning of soft drinks, now imported in large quantities, might also be possible (an alternative would be a bottling operation, using Secondhand beer bottles). A few products, such as the caramel-like

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coconut syrup used in ice cream, cake frosting, dehydrated banana flakes, exotic tropical jellies, etc., might even have a profitable export market. The cannery itself would provide urban employment, and growing the contents would provide additional agricultural employment yielding a cash income.

Bulk fertilizer, livestock feed, and feed bags.

In place of importing individually packaged and already mixed fertilizers and livestock feed, the bulk importation of the separate ingredients and their local mixing and bagging may be economic. Such an operation would have the further advantage of gradually replacing imported with local ingredients. Different variety fibers currently or previously cultivated in Micronesia, such as jute, kenaf, hemp, etc. would supply the raw material for a bag fabricating plant. The needs of the copra trade would supplement the fertilizer and livestock feed demand for these bags.

<u>Boat-building</u> is a manufacturing activity which has great appeal in an island economy extremely dependent on small and medium-sized boats. There are a few private boat-builders in various districts of the Trust Territory, but they do not begin to meet the demand for even small boats and rarely do locally-built boats exceed 30 feet in length. Most boats are imported from Japan. A boat-building cooperative has been established

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in Palau, under the guidance of an experienced Hawaiian boat-builder, with the expectations of building boats up to 90 feet in length. Unfortunately, there are no orders for boats of that length and there are not likely to be any unless they come from the Trust Territory government. In order to begin operations -- to buy tools and stock building materials -- the cooperative would have to go very heavily into debt on the basis of a very uncertain expectation for orders. The cooperative form of organization seems peculiarly unsuited in Micronesia to an operation like boatbuilding, which requires careful coordination and management of many diverse activities. The Mission recognizes the useful role which successful boatbuilding and, even more, boat maintenance and repairs can play in Micronesia -- particularly once a tuna boat fleet is based in the area, But the operation should not begin with the very heavy ratio of debt to equity which the cooperative now has; the government should consider reclaiming the boat shed which has been built, cancelling the loan for it, and leasing it at nominal rates for boat-building and boat maintenance and repair. If a boat-building enterprise seems viable in the long run (and it will be difficult to tell until Van Camp's plans clarify), then perhaps the Palau boat-building association should be run as a government training program, and partially funded as such, until there is a regular order for larger boats and the Palauans can build them economically.

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Small boat-building should be encouraged elsewhere in the Trust Territory. The Mission's proposal to equip each lagoon in the Marshalls with 21-foot boats provides a fine opportunity for encouraging local enterprise through selective contracts.

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Other manufacturing ventures. There are numerous other possibilities for light manufacturing which deserve further exploration: brickmaking in Palau and Yap where the U.S. Geological Report indicates that appropriate clays exist; slaughtering, tanning, making fertilizer and other meat-related industries in the Marianas; crocodile hunting and crocodile farms in Palau; tapioca starch and garment manufacturing in several of the districts; inexpensive perfume using local blossoms, and Handicraft, now well established in some of the districts, does so on. not seem, to the Mission, contrary to general thinking, to be an area to which further resources can be profitably devoted; the market has become world-wide, and Micronesian designs, workmanship, and costs are not likely to provide the basis for successful competition with handicraft from other parts of the world. The poor commercial prospects for a Micronesian handicraft industry were indicated by the failures under Navy administration of the Trust Territory. Rising sales to the Micronesian Products Center on Guam should be assessed in light of the Center's large unsold inventories and its continued purchases on a consignment basis.

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Other ventures: Agricultural. A number of agricultural ventures might be commercially successful under good management and a carefully supervised labor force which would not be successful if left to individual Micronesian farmers. In such circumstances, organized plantations might be introduced -- particularly when a new product or novel production techniques (e.g., extensive use of fertilizer) are required. Such plantations would be under government management until the private sector was ready to operate them successfully, but they would be run as businesses and would hire labor on the basis of work actually done rather than on fixed salaries or hourly wages. The following ventures appear to be among the more promising for this type of operation in Micronesia: eattle raising, vegetable and other produce, and ramie fiber. These are dealt with in more detail in the section of this report dealing with governmental agricultural programs.

Other ventures: Tourism. A potential source of income for Micronesia not now fully utilized is tourism. Micronesia is too far from the United States and too much off the beaten track to attract many tourists directly from the United States in the foreseeable future. Guam, however, has a population of 70,000 including over 20,000 military Personnel and their dependents. Another 3000-4000 Americans live on Kwajalein. Both groups have a rapid turnover, and for both groups there

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are potential tourist attractions in certain parts of Micronesia. From Guam the most obvious tourist centers would be Saipan, Yap, and Palau, of which Palau would probably be the most popular. For the people on Kwajalein Atoll, the high island of Ponape with its luxuriant vegetation could offer an interesting break to living on a low coral island.

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Some tourism already exists; there are irregular but frequent flights to Saipan from Anderson Air Force Base on Guam; people from Kwajalein visit Ponape and even Majuro in small numbers. But development of a sizeable tourist business is impeded by inadequate and unreliable transportation (except to Saipan) and limited hotel space and eating facilities. Once these bottlenecks are broken, tourists would come in considerable numbers if there were enough diversions to keep them happily busy. Completion of the land airstrip at Palau and construction of one at Ponape, along with commensurate improvements in air transportation, should provide adequate travel facilities. The military have voiced the possibility of running special flights if accommodations were available.

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Constructing tourist hotels and restaurants requires a substantial amount of capital. In the initial stages it would be appropriate for the Trust Territory to attempt to achieve rather "rustic" accommodations, however, and this would require less capital. In Palau, additional accommodations could be made available simply by expanding the existing hotel at no great expense; and modest hotel facilities already exist on Saipan. New accommodations would have to be constructed before Ponape or Yap could absorb any more than a handful of tourists.

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In addition to better accommodations, various service facilities would have to be made available -- car and boat transportation around the islands, diving equipment, water skiing, evening entertainment, etc. After a thriving tourist industry was established, these Bubsidiary businesses could perhaps be relied upon to develop entirely with local initiative and with local financing; but in the formative stages of the industry, considerable guidance and some capital for getting things established would be required. Yet once transportation is adequate this may be one of the most promising avenues for raising incomes in some districts. One estimate we have seen places the capital cost of adequate tourist facilities in Palau at only \$71,000 -- a very modest investment considering that every tourist generates one and a half jobs, according to the admittedly dissimilar Puerto Rican experience with tourism.

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Other Ventures: Construction. In Palau and Saipan there are already a number of local contractors who build houses and stores locally. At Koror we were told that the four regular contractors build 40 to 50 new houses a year. A source of considerable discontent in Palau is the government's failure to invite local contractors to tender bids for building teachers' housing under the accelerated school program, and the Palauan contractors claim they could have done a satisfactory job of building housing in Palau at a substantially lower price than the housing will cost under the outside contract. The Mission feels that for political as well as economic reasons, greater attention should be paid to the possibility of using local contractors when simpler construction is required -- whether it be schools, teachers' housing, public housing or other public building. Invariably some mistakes will be made and more sophisticated tasks will require, contracting with U.S. firms (who should be encouraged to subcontract to local contractors). But construction, with its relatively high labor content, is a useful area for encouraging local entrepreneurship. And if done by contractors rather than the public works department, the building can be done on a unit payment-for-work-done basis. There has been sufficient experience in private housing ventures in Metalanum (Ponape) and Palau to-indicate that this method of payment can help raise productivity above levels achieved when workers are paid on an hourly basis.

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Preferred Treatment for Micronesian Enterprise. Micronesian business, particularly manufactures, may fail without some temporary protection from outside competition from the United States, Japan, and elsewhere. Such protection could be provided through import tariffs, through favorable freight rates for internal trade and unfavorable rates for competing imports, and, in the case of government orders, through price differentials favoring local work. The purpose of protection should not be to shelter local business indefinitely, for that would foster inefficiency in production at the expense of the consuming public. Rather it should simply provide enough preference to local goods and services to overcome the inertia of human buying habits -- the public has gotten used to imported soaps, cooking oils, and canned fish, for example -- and to give local business a breathing space during which it learns the techniques of efficient production and quality control. The Mission recommends that territory-wide duties be placed on imports of goods which look as though they can be produced and marketed successfully in the Trust Territory. However, it is premature in Micronesia to rely solely on profit incentives -- such as would be created by a protective duty -- to generatelocal production. Protective duties should be imposed only after an evaluation of production and marketing prospects has been made and after the production and marketing facilities have been set up. Moreover, these duties should generally not exceed 50 percent (the need for greater

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protection, except in unusual circumstances, would cast doubt on the long-run viability of the venture), and they should decline to the level of revenue duties over a period of five years.

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In addition to making a special effort to use the services of local contractors when there is construction work to be done, the Trust Territory government should rely on local production where, as in the case of school furniture and soap, local production can be made available. Reliance should be placed on local sources of supply even when the price is slightly (say 10 percent) higher -- some of the earnings will be recouped in taxes -- or where some sacrifice in quality is required, at least during an initial learning period. Such forms of protection must be provided selectively; and instituting a protective arrangement must be followed up by technical consultations with the producers or contractors to be sure that they are taking the opportunity to learn better techniques and improve quality during the period of protection. It should be recognized that proper protection will generate useful technical and managerial skills among Micronesians, and to the extent that these skills facilitate general economic activity in the Trust Territory, the future grants by the U.S. congress can be reduced.

Other Forms of Assistance to Business. Economic development cannot proceed very far without government help in still other areas -transportation, power and water. An adequate and reliable transportation System is critical for bringing the distant parts of Micronesia together

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commercially. Without transportation, markets will remain too small for most efficient production. To develop markets on Guam and Kwajalein, and tourism on Ponape, Palau and Saipan, requires reliable personnel transportation. A separate part of the Mission's report recommends substantial improvements in both surface and air transportation.

In addition, extension of power and water facilities at moderate rates is one of the most useful forms of economic development assistance, quite apart from the additional social advantages of a proper utilities system. Electric power will be required in "urban" centers to run power tools, freezers, cold storage, and ice-making machines. Water is needed for ice and for some types of manufacturing. The fact that over-all programming and administration of the Development Fund are both to be done by the Programming and Development Contractor should ensure that programming for utility extension will take into account potential-industrial needs as well as other needs.

The recently formulated more liberal policy toward temporary residence of foreigners in Micronesia must ultimately be well publicized in the Mission's judgement if it is to have any impact on the economic development of the Trust Territory. The Mission was apprised of a number of instances in which Micronesians were prepared to seek technical advice or assistance directly -- mostly from the private sector of Japan -- but were hindered from doing so by the security

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requirements for the Trust Territory. However, as of July 1, 1963, the High Commissioner has the authority to permit any foreigner to reside in the Trust Territory or any foreign ship to land in a Trust Territory port, subject only to the absence of objection from the U.S. Navy within a reasonable period of time after application.

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Similarly, United States capital should be encouraged into the area under <u>general</u> restrictions designed to protect Micronesia from exploitation and abuse, rather than under the detailed evaluation of proposals which now exist. It will be clear from the preceding discussion that profitable business opportunities are not so numerous in Micronesia that foreign capital would flood into the area if the present restrictions were relaxed. The government is not always better able to judge the economic viability of a business venture than the willing businessmaninvestor. At the same time, some limits should be placed on the ability of Americans to invest in the area, particularly in view of the ambivalent feeling throughout Micronesia about foreign investment -- a recognition that it is desirable for economic progress combined with a fear that the Micronesians will be displaced and shoved aside. To protect Micronesian interests while also permitting capital to come in more easily, the Mission recommends the promulgation of an Investment -Code governing all

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foreign investment in the area. The Code would stipulate that a minimum of 50 percent of Micronesian equity be retained in any venture established in the Trust Territory, except in special cases where the High Commissioner could waive the requirement. Where the amount of required capital is too large to be raised from Micronesians, the Development Fund might participate in Joint ventures on behalf of Micronesians. This would also permit the technical and managerial expertise of the Programming and Development Contractor to become involved in any large investment in the area. The Code would include any other general provisions deemed desirable by the High Commissioner, and any American enterprise which adhered to the conditions of the Code could enter the area freely.

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Several companies expressed a reluctance to expand either their existing operation or extend themselves into new lines because it might invite the charge of monopoly. Only in Ponape was the view expressed that the several trading companies may be "exploiting" their position, especially on field trips when people have little choice but to buy at the ship, whatever the price. This feeling, whatever its merits (and the Mission did not have the time to investigate the charge carefully), has given impetus to a local cooperative movement. Village cooperatives plan to buy copra for cash and to sell trade goods off their shelves, declaring a dividend at year-end if gross revenues exceed total costs.

Working capital requirements of the trading companies is very large by U.S. standards. Total trade-turnover is often as little as two, although three-to-four is more common. In addition to stocks on hand, goods in transit beyond the credit period of the foreign exporter also require working capital. And an unusual amount of business must be transacted by cablegram because mails from some of the districts cannot be relied upon to meet business deadlines. Improvement in transportation, both as to reliability and frequency, should reduce working capital requirements and transactions costs considerably. Thirty-day visits by logistic vessel would lower inventory requirements well below requirements with 45-day visits; but an even_greater reduction in inventory requirements would be permitted by reducing

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the uncertainties of ship arrivals. With greater regularity in shipping, trading companies could plan their inventory policies much more carefully, perhaps reducing total inventory requirements of around \$3 million by more than one-third. This would release for other uses over \$1 million in capital now tied up in inventories -- or would permit the stocking of badly-needed retail stores in the outlying islands.

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A number of importers expressed dissatisfaction at having to corr to the Christian Department all which no pro order their goods through licensed dealers on Guam at what they con-1000000000000 sidered excessive mark-ups and transshipment costs at Guam. The tes practicasticas a rata (2.51) Mission found that trans ship mat costs excluding spoilage and pilferage district centers. Ill da on districe (which is alleged to be high) range from one to four dollars a ton, provessing for on copts 10 LowLin resulting in total transshipment costs of \$40-50,000 a year, hardly enough to warrant building an extensive ocean port in the Trust Terriirem one clathers contras to uses tory-to-avoid transhipment-at-Guam .- Nonetheless, unsatisfactory commercial relations with Guam provide a point of friction between the and uptometers, and a differing the world Trust Territory and Guam. Guam dealers should be encouraged to take more seriously their markets in the Trust Territory. In case of egregiously bad service official correspondence with the parent company might be undertaken with a view to changing the dealership. A joint Chamber of Commerce between Guam and Trust Territory businessmen, or some other form of social relationship, might serve to lessen any antagonism.

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Marketing of the main export, copra, is done through chartered dealers -- one in each district except Truk, where there are two -- under the regulations and supervision of the Copra Stabilization Board. The Stabilization Board sets the grading standards, allowable shrinkage, and the prices which will be paid to the producers. These prices are the same in all district centers, and \$10 a ton less in the outlying islands -- the \$10 difference just covering transportation and handling costs to the District Center and allowing no profit on that phase of the operation. Profit is made by the licensed dealers by selling copra to the Stabilization Board at \$10 a ton more than the buying price at the district centers. It is on this price that the 15 percent Territorial processing tax on copra is levied, so the effective tax on the producer in the outlying islands is closer to 18 percent. The copra is shipped from the district centers to Japan on the logistic vessels of the Trust Territory and marketed there by a commercial agent, Atkins, Kroll and Company, at a fee which works out to about \$6 a ton at the present Japanese price of \$160 a ton. the creative manufactures and the

The Copra Stabilization Board attempts to absorb week-to-week fluctuations in world market prices, so the price to the producer is

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changed only infrequently. The CSB seems to be accepted as a desirable organization, although the copra producers fail to understand the secular fall in copra prices (until July 1963) since 1957. Still less understood, even among sophisticated Micronesians, is why a U.S. agent must be paid to market copra. There is no doubt that for a relatively small seller such as Micronesia, the contacts and experience of a professional commodity trader can be very helpful. The Mission recommends, however, that the arrangement with Atkins Kroll be reviewed to see whether the arrangement is beneficial to the extent of \$6 a ton, or a total of \$70-80,000 annually. It may be possible for the Copra Stabilization Board or residents of the Trust Territory to undertake this function, if necessary with the aid of expert advice in Japan hired on a consultant basis.

A principal deterrent to the development of a market economy in the outlying islands is the absence of ready buyers of copra and sellers of trade goods. Some retail stores have enough capital to support a small inventory, but generally the would-be copra producer has no place to buy trade goods except during visits of the field trip vessel. Some areas go without staple imports such as sugar for weeks or even months. One device for moving closer to a market economy would be the establishment of small producer-consumer cooperatives in the outlying copra-Producing areas such as now exist in the British administered

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Gilbert and Ellice Islands. The British cooperatives pay cash for copra and stock the staple trade goods. Until they are running well, such co-ops are under the supervision of a qualified Cooperatives Officer, who makes sure good weighing, grading and record-keeping practices are established. A producer can sell copra at any time of the working day, in amounts as small as one pound. Working capital requirements are met by loans from the reserves of the Copra Stabilization Board.

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The Mission feels that a similar system should be introduced to the Trust Territory, where much copra is said to be lost for want of accessible collection depots where the natives can always sell copra for cash or trade goods. Cooperatives have been started in several of the districts, but they lack working capital and they lack adequate supervision. Moreover, discussion with Micronesians outside district centers revealed hardly a glimmering of what cooperatives are all about, except that they are alleged to result in more money to the producer. With such ignorance, mismanagement will soon overtake the cooperatives which are being established. The job of supervising cooperatives, and credit unions as well, now falls on the agriculturist in most districts -- a man who is generally overworked by his agricultural responsibilities alone. If cooperatives are to succeed -and they seem well-suited for the type of economy which now exists in Micronesia -- they will need both supervision and capital. The Mission

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therefore recommends that a Cooperatives Officer should be assigned to each district for the purpose of setting up and supervising cooperatives and credit unions. In this connection, the Cooperative League of the USA should be contacted; it has done useful work in underdeveloped areas for the Agency for International Development. AID is also associated with the International Cooperative Training Center, which offers a 16 week course at the University of Wisconsin for Cooperative Officers. Working capital for the coops could be provided from the assets of the Copra Stabilization Board and supplemented, if necessary, from the proceeds of the copra processing tax.

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Throughout Micronesia claims of ownership are not well defined, and what "belongs" to one person generally also "belongs" to all of his relatives. Relatives -- including-relatives very distant by U.S. standards -- feel free to use anything another relative has, including cash. This practice of communal ownership discourages savings and makes it very difficult for Micronesians to buy durable goods, for the little cash income they have is often distributed far beyond the wage-earners' immediate family for consumption of essentials such as food and clothing. It is not unusual for families in urban areas to have as many as three or four relatives (other than spouse and children) living with them at any point in time -- although sometimes small children are left with Brandparents. The practice of communal ownership also inhibits purchase of staple goods in economic quantities, for they will probably be "borrowed" before the purchaser is able to use them.

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If the maximum use of local resources for development is to be encouraged, some method must be found both to encourage individual savings and to protect them from the claims of relatives. Two methods of doing this are:

- a. Individual savings accounts in banks or credit unions -- and in school savings accounts -- with direct deposit deducted from receipts of government employees and copra producers.
- b. Commercial credit with payments on time which convert current purchases into contractual payments.

-In-the first case individual-savings precedes the "investment" in a durable product, while in the second case savings follows the "investment."

Contractual saving through <u>credit unions</u> has been strongly encouraged in the Trust Territory and there is now at least one credit union in every district and there are 15 in the Palau district alone. Typically the member of a credit union agrees to regular periodic deposits, say \$1 every month or every pay period. He is entitled then to borrow from the credit union for "provident or productive" Purposes. Borrowing in some credit unions is limited by the individual's deposits and shares, e.g., the loan cannot exceed 1-1/2 times his claim on the credit union. In other cases all loans are decided by a loan committee, and there is no fixed limit. Members typically borrow to purchase capital items -- motor scooters, outboard motors, home repairs; but occasionally borrowing takes place to discharge outstanding debts to storekeepers. Interest charges on loans are high -- 1 percent a month or, in a few cases, 2 percent a month.

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Many of the credit union treasurers are not adequately trained in credit union principles or in bookkeeping, and the financial records are often in very poor condition. From this viewpoint the large scale movement into credit unions, as at Palau, was premature. Yet the contractual savings achieved through credit union membership is so valuable from the viewpoint of financial self-improvement that the credit union movement should be encouraged. The Cooperatives Officer in each district, recommended above, should also supervise credit unions and give close guidance on record-keeping. Where Possible, credit unions should be consolidated under good management, and the indiscriminate formation of credit unions should be discouraged. Possibly the formation of district-wide credit union leagues would not only promote better management practices but would also provide the organizational structure for credit union merges.

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There are now <u>bank branches</u> of the Bank of America or the Bank of Hawaii in every district except Yap. In the Marshalls, however, there is no bank in the district center at Majuro, and in Ponape the branch bank was just opened in July 1963. On the whole these branches are simply banking facilities which accept deposits and clear checks; only rarely do they make bank loans. Moreover, the bank officials are not doing an adequate job of explaining to the public the advantages of savings and checking accounts. Despite this, the value of deposits have grown nearly 20 percent over the past year (Table 18).

The Mission agrees with the Trust Territory government's use of its own deposits to encourage the extension of banking services (which should be extended to Majuro and Yap), but it feels that the loan policies of these banks should be clarified and stimulated. To encourage the use of banking among Micronesians, government salaries should be paid by check rather than in pay packets. Where it is agreeable to the employees, salary checks could be deposited directly into individual bank accounts. Such an innovation, favored by the banks and a number of officials, would encourage (and permit) greater savings, would increase financial sophistication and foster family budgeting, and would reduce the risk of theft from government finance offices when much cash is on hand.

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negligible number of loans to including Deposits, by District but Total Reported Bank and Credit Union Deposits, by District but mont The Little lean business they as is installwent Tendick at 12ab June 1963 interest rates, generally to employees of June 1962 the Manile to Lond To Marro \$334,544 \$433,407 Marianas . n.a. 267,050 252, 595 Palau the internation the second and a second Ponape :: ir Micronesia. The prohibition against scienation of ,450 31,885 38,001 Truk 9,929 0 Yap 15. attractions are apparentic that under Trust Territory laws they can obtain 16..... a court judgmont and forcelecure order on land used as collaters! as of undefined and ambiguous land titles, both as to boundaries and upostrance effects. Noth Political and cornenis. And the Musslet Ha 12: 25: give Treasurementary ages, Prove Laterage, Jackson, Marine mander to be and

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The branch banks of Bank of America and of Hawaii now make a negligible number of loans to individual Micronesian employees and businessmen. The little loan business they do is installment lending at high interest rates, generally to employees of the Trust Territory government. The failure of the banks to lend in Micronesia means that deposits are sent out of the area for investment in Guam or the United States. One reason the banks have been reluctant to lend is the lack of satisfactory collateral in Micronesia. The prohibition against alienation of land (so banks cannot take clear title to it) and the absence of an active market for land reduce its attractiveness as collateral, but the banks are apparently unaware that under Trust Territory laws they can obtain a court judgment and foreclosure order on land used as collateral so long as the land is sold to Micronesians. More acute is the problem of undefined and ambiguous land titles, both as to boundaries and ownership. This lack of clarity in land ownership has other undesirable effects, both political and economic, and the Mission has recommended a Land Surveying and Registration Program.

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One function of the Programming and Development Unit, using assets of the Development Fund as backing, would be to guarantee bank loans in Micronesia, thereby providing adequate security to the banks. This

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would keep Micronesian bank savings productively at work in the capitalshort Territory. Ultimately, it might be advisable that banks should be able to buy -- and might even be required to buy -- securities issued by the Development Fund under its own name. This would be another way of putting Micronesian savings, deposited in U.S. bank branches, to work in the Trust Territory.

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<u>Consumer credit</u> is used extensively in some districts, while in others the trading companies operate on a strictly cash-and-carry basis. Curiously, where consumer credit is extended it is largely for staple products -- food and cloth -- and not for consumer durables, which are more often imported on specific order rather than from stock and must be paid for in cash. It is an anomaly not to have time payments for durables, where collateral is available, when credit is given for day-to-day purchases. Where purchases of durables can raise productivity, as in the case of boats or outboard motors or building materials, consideration should be given to setting up a system of time payments. In the case of government employees, payroll deductions --such as are being used to pay off credit union loans -- could be made. And in those cases where the trading companies are short of working capital, loans from the Development Fund could be arranged. Credit Union lending has facilitated the purchase of durable goods.

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Three substantial funds already exist in the Trust Territory:

a. The Angaur Trust Fund, amounting to \$1.2 million, which was set aside from the proceeds of postwar phosphate mining on Angaur to be used for the benefit of the people of Angaur. Interest earnings of about \$37,000 annually are distributed as current income. Investment of the Fund is determined by the High Commissioner.

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- b. The Saipan Trust Fund, now about \$375,000, was set aside by the Navy for the benefit of the Saipanese as rent for the property it used on Saipan. This Fund once amounted to over \$1 million, but it has been used for such community projects as the new hospital and high school in Saipan. Use of the Fund is determined by the High Commissioner.
- c. The assets of the Island Trading Company, liquidated in 1954, have been held as a loan fund for all chartered trading companies and cooperatives. The fund amounts to about \$330,000, of which \$155,000 was outstanding as loans in mid-1962. Loans are determined by a committee comprising the Executive Officer, the Program Officer, the Attorney General, the Economic Officer, and the Finance Officer of the Trust Territory. It has been the practice to lend from this fund only for fixed capital investment; and only on one occasion, the Mission was told, has a loan been made for working capital.

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d. In addition, \$100,000 was appropriated in fiscal year 1964 snips and to be used for financing economic development. About \$40,000 of this has already been transferred into general funds by the nute as High Commissioner, however, to replace funds used previously for economic development.

These funds should be used in close conjunction with the proposed Development Fund to the extent it is consistent with limitations on their use. Indeed, the loan fund for chartered companies and what is left of the recently appropriated funds for economic development should be fully absorbed into the Development Fund. Geographical limitations on the use of the Angaur Trust Fund and the Saipan Trust Fund require maintaining them as separate funds, although their use should also be influenced by the over-all development program.

At the same time, greater Micronesian/participation in determining the use of these funds should be permitted and encouraged. The leaders of Angaur showed considerable misunderstanding about the use of their fund, which is entirely controlled by Trust Territory headquarters, and one result is substantial sentiment in Angaur for distribution of the entire fund to the people. The Mission feels that such distribution would be a mistake, but that a locally-chosen representative from Angaur should sit on a three-man Management board (which the High Commissioner is empowered to create) made up of the High Commissioner and a second person appointed by the High

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Commissioner to administer the Fund. Apart from several scholarships and the purchase of a boat, the Fund has not been used for the improvement of Micronesia. Interest earnings of the fund are distributed as income. Greater thought should be given to using a part of the fund for productive investment on Angaur, or if the 450 people of Angaur decide to move to Babelthuap, as has sometimes been suggested, a part of the Fund could be used to establish a community there.

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If no productive use of the Fund can be found on Angaur, then some thought should be given to using the Fund for investment elsewhere in the Trust Territory, with interest and/or dividend earnings paid to the people of Angaur. At present the Fund is earning only about 3 percent a year in U.S. Government securities. The Trust Territory government should be willing, if attractive investment opportunites in Micronesia present themselves, to use the Angaur Trust Fund as a source of capital. It would be advisable to guarantee a return to the people of Angaur slightly higher than that which would have resulted from retaining the Fund in government securities. This would be an inexpensive way of raising capital for productive use, provided the investments were carefully selected and Supervised.

The Municipal Council of Saipan has proposed that the Saipan Trust Fund be used for public housing (\$100,000), economic development (\$100,000), agricultural development (\$75,000), scholarships (\$25,000),

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and the second second second and capitalization for a Bank of Micronesia (\$75,000). Reconstruction of the town of Garapan with modern housing to replace the patch-work housing which now exists in Chalan Kanoa is an excellent objective. The Mission feels, however, that a Bank of Micronesia would be premature at For a r this time, and it would be unnecessary if the lending policies of the bank branches in the area can be adapted to Micronesian needs, as o referenced to th discussed above.

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SUMMARY OF RECOMMENDATIONS

Chapter 6

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For convenience, the major recommendations by the Survey Mission made in its Report on Economic Development are brought together here in summary form, with page references to the discussion in the text. The recommendations have been grouped into three categories on the basis of how they can be implemented, although it should be recognized that the borderlines between them are not clearcut:

- Those recommendations which can be implemented by the High Commissioner, subject only in some cases to approval by Interior, with only minor changes in institutional arrangements and with no major increases in expenditures.
- Recommendations which require more extensive institutional changes or entail substantial increases in expenditures.
- 3. Recommendations which require changes in U.S. statutes.

1. <u>Recommendations which can be implemented by the High Commissioner</u> In programming capital expenditures in the Trust Territory, particular attention should be given to their impact on Micronesian employment and income. This applies especially to large programs such as The Accelerated Elementary School Construction Program and the Public works program recommended in this Report. Where it is Possible without great cost, capital expenditure should be geared to local employment requirements -- accelerated or stretched out according to the local desire for jobs and cash income (pages 13-41).

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Education plays a critical role in economic advancement, and the school curriculum should be designed accordingly to serve the two-fold objective of training Micronesians in the application of intelligence and accumulated knowledge to local problems and of giving them sufficient breadth to emigrate successfully. (page 45-46 and the Education Section of the Mission's Report).

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To encourage the development of supervisory capability, to foster the accumulation of savings, and to integrate further the Trust Territory, there should be a deliberate policy of placing capable Micronesians in districts outside their home districts (pages 44, 48, 49).

Where possible, Micronesian employees should be paid on the basis of work performed rather than for hours spent on the job, with a view to raising labor productivity. (page 51).

Where the cost is not prohibitive, the Trust Territory government should make a greater effort to direct its procurement of goods and services to Micronesian businessmen. (page 99).

The Trust Territory government should use its regulatory powers

to ensure that Micronesian interests are served by foreign investment in the areas and in particular it should reach a clear understanding with The Van Camp Company on the rate at which Micronesians are to be taken on as fishermen. (page 72-73). Irust Cerritory. (page 34).

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The High Commissioner should invite the University of Hawaii, or other qualified research organizations, to establish agricultural and fisheries research stations in Micronesia. (pages 67, 76).

The practice of prohibiting foreign citizens from entering the area should be relaxed considerably in cases where visits or temporary residence by selected foreigners would further economic dvelopment in the area. (page 100).

important for development of the area. (pace 79-83). The High Commissioner should promulgate an Investment Code, under the general provisions of which American investment could be undertaken in the Trust Territory without specific government approval.

The Code would be designed to protect Micronesian interests while encouraging U.S. investment in the area. (page 101-102).

Where banking facilities exist, payment of salaries to government employees should be made by check, with a view to encouraging savings and raising the level of financial sophistication. (page 112).

Banks now in the Trust Territory should be encouraged to make more business loans than they now do in the Trust Territory. (page 114-115).

The various trust and loan funds administered by the High Commissioner should be used more actively to further economic development.

(page 116-117).

Measures should be taken to improve the quality and the coverage of the economic statistics collected for the Trust Territory. (page 34).

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2. Recommendations requiring additional appropriations, or requiring substantial institutional changes.

A Programming and Development Unit, contracted from a qualified consulting firm should be established within the High Commissioner's staff on an advisory basis to program and coordinate government budget priorities, to give technical and managerial assistance to Micronesian businesses, to administer a newly established Development Fund, and through that Fund to undertake where advisable direct business ventures important for development of the area. (page 79-83).

A Development Fund of \$5 million should be established to finance commercial undertakings in the Trust Territory. (page 82).

The agricultural program in the Trust Territory should be extended in a variety of ways. The major recommendations of the Mission's Report on Agriculture are summarized on pages 63-67.

The fisheries program should also be expanded, both in training and in commercial development. (page 75).

Greater use should be made of the technical skills available on Guam and Kwajalein for on-the-job training of Micronesians. (page 38).

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Cooperative officers should be appointed in each district center to supervise the founding and management of producer-consumer cooperatives and of credit unions, institutions which are needed in the Trust Territory if properly managed. These responsibilities should be removed from the District Agiculturists. (pages 107, 108, 112).

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3. Recommendations requiring a change in U.S. statutes

The U.S. immigration quota for Trust Territory residents should be enlarged or abolished, to permit freer emigation from the area. (page 50).

U.S. tariffs on Trust Territory products should be abolished, and the Trust Territory should be given a tariff-status like that of Guam and the Virgin Islands.(page 74).

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Chapter 1

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PUBLIC WORKS - HEADQUARTERS

The High Commissioner has on his staff a Director of Public Works whose office is in Saipan. The Director is charged with the responsibility of advising the High Commissioner on matters pertaining to construction, maintenance and operation of the Trust Territory government facilities. When a construction project has been developed and approved by the High Commissioner, the plans and a material list are prepared in the headquarters' Department of Public Works. When all necessary paper work has been completed and signed off, the Comptroller assigns a project number to the work order and all necessary information to do the job is sent to the district in which the project is located. From this point on, the job is the responsibility of the District Administrator who instructs his Public Works Officer to proceed. Changes which affect finance and design must be approved by headquarters before the district can incorporate them in the construction job.

On the staff of the Director of Public Works there is one general engineer, a young graduate who is of Saipanese birth. The one other engineering slot on the staff is vacant. There are no registered professional engineers on the Public Works staff. There is one technician, one draftsman and one draftsman-trainee to handle all the drawings and designs that headquarters wants to produce.

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The central supply and repair depot also comes under the Director of Public Works. There is one technician on the headquarters staff in charge of the workshop and central supply. He has at his disposal a limited revolving fund for the purchase and repair of surplus equipment, which he purchases from any available source. He then sells the repaired equipment to the districts for what it costs the depot to obtain and repair it. From observation, it appears that the procurement, stocking and shipping of spare parts is the larger part of the operation; approximately \$40,000 per month worth of spares are handled by the central depot. The handling of this operation plus the repair shops is a big job for one technician and does not allow close supervision to be given to the repair work. A few months ago a tractor was overhauled at a cost of about \$5,000 and sent to the Palau airport job. Three days after it went into operation, it broke down, and another \$3,500 worth of spares was ordered from the field. The Mission was informed that because of the lack of supervision the grease seals were put in backwards while in the central work shop, and several important parts were burned out.

District Public Works, General Survey

Public works offices in each of the six districts are charged with a multitude of responsibilities: the maintenance and operation of all public utilities; construction of new buildings and facilities; repair and overhaul of operational equipment for all other departments; and the ground support for air and ship transportation. These functions are carried out with a combined staff of Americans and Micronesians. Each

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district employs from 100 to 150 Micronesians in its Public Works Department.

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The major responsibility of the district public works staff is providing operational continuity for public utilities. In every district, except Saipan, the road system, the water supply and the power system are all in a marginal state of repair and require many hours of time and extra effort to keep them in some semblance of dependable operation.

Power and water are provided to the district center offices, schools, hospitals, hotels and homes of American employees. Where the utilities are available they are also provided to certain commercial establishments in the district centers. In very few instances have water and power been provided to the local Micronesian residences. The present systems require extensive repair, modification and expansion before it will be possible to provide service to the people in the villages near the district centers.

In addition to water and power, each public works office is responsible for the maintenance of the roads and streets in the district centers. Also from time to time they assist the municipalities in a specific maintenance job on roads outside the district center.

Upon the arrival of the logistic vessel or field trip ship, the public works office must assist the vessels to dock with the use of its "M" boat. Stevedores are employed and supervised by the public works office to offload and load the ships as required, and to transfer fuel oil from

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ship to shore storage. The public works office must make a report on each ship which arrives or departs from the district. Aircraft ground handling and fire control is also the responsibility of the public works office, as well as the upkeep of the landing strip.

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Motor vehicle and heavy equipment repair and overhaul is done in public works shops when spare parts are available. Often it is necessary to manufacture the part at several times the original cost because no spare is available. Power and outboard motor boats are operated and maintained by the motor shop. Carpentry, electric, and paint shops also provide services to the district centers.

In addition to the operating and maintenance responsibilities the public works office is charged with the task of conducting a full scale construction program. New construction is provided for U.S. employee housing, school buildings, hospitals, warehousing, power plants, water storage tanks and all other construction necessary to support a district center operation.

About 65% of public works time is spent on operation and maintenance and about 35% for construction. The same supervisory personnel required for "O and M" are also used to supervise construction. Frequently, these competing demands force the inefficient shifting of workers as well as supervisors between maintenance and construction functions. District construction is further complicated by delays in purchasing and shipping of critical construction supplies - all material and supplies for

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construction in the districts are ordered by headquarters supply and shipped directly to the district by the supplier. Material required for the finishing of a project is often received before material for the foundation and structural walls arrive, thereby causing a serious warehousing problem. These are the major problems confronting Public Works in drawing up, and adhering to, construction schedules.

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Public Works In The Marshalls

The Public Works Office in the Marshalls consists of an American District Public Works Officer and his staff of five technicians. During the time of the Mission's visit to the Marshalls District, the American staff was short two people. One man was on home leave, and the other position was unfilled. In addition to the American staff, the Public Works Office employs about 100 Micronesian workers. Some of these workers are capable of doing skilled work such as equipment operation and general mechanical work, but it was noticed that very few of them were used as foremen or in any position where responsibility for supervision was theirs.

The Majuro district center water system consists of a catchment area near the center of the government employees' housing area and a sump storage of about 500,000 gallons. The catchment area alone does not provide sufficient water. An additional supply is provided through shallow well pumping. The water-taken from the shallow wells is high in salt content but when mixed with the catchment water the salinity is reduced sufficiently so that the clear water which is distributed is only slightly brackish. Two large ships buoys are installed with pressure

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pumps to provide for pressure distribution throughout the district center. Another 500,000 gallon storage capacity is planned at the new high school site. The present water usage is about 600,000 gallons monthly. With the added storage capacity at the high school this usage should about double. So far no plans for distribution to the village of Rota which adjoins the district center have been developed. If safe drinking water is provided to those villagers, another 1 million gallons should be added to the monthly usage bringing the total usage to about 2.1 million gallons per month.

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Power for the district center is provided by two 300 KW generators and one 60 KW generator. The third 300 KW generator is being installed and should be on the line by about November 1st. The peak load demand for the district center, the hospital and the new schools will just be met with the installation of the third 300 KW unit this year. This does not provide any power for lights or utility service to the village of Rota. An additional 500 KW unit would be required for this and other commercial uses which might be developed later.

In addition to operating the water and power system, the public works office is responsible for the upkeep of the roads in the district center which consists of approximately 5 miles of coral and dirt packed construction. No major work has been done on the roads during the last 5 years so that they are in a bad state of repair. Outside of the district center there is 2 1/2 miles of road in the village of Rota and 6 1/4 miles of road on "long island" beyond the airstrip toward Laura on

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the southeastern end of Majuro island. From the western end of this road to the village of Laura, a distance of 18 1/4 miles, a community-built road has recently been completed which now links Laura with the district center by road during all tides. This roadway was hastily thrown up by using coral and dirt when available and shaped by hand and a bulldozer. The road is actually constructed over three isolated islets connected by hand-made coral causeways. The public works office assisted the people of Laura to construct this road by furnishing heavy equipment, technical advice and supervision. This first effort at a roadway between Laura and the district center is only a start on a passable permanent road. Much more time and money must be spent before this road can be used as an all weather means of communication. As soon as is possible additional crushed coral must be placed on the present base and reasonably good compaction achieved. The causeways will have to be strengthened and sea walls provided to keep them from breaking down and washing away at high tides. However, the public works office has assumed no responsibility for the upkeep and repair of the roads outside of the district center. Even within the district center the road is not really "maintained"; only large holes and breakups are repaired because of a serious lack of personnel, equipment and funds to do the work.

The operation and maintenance budget for the public works does not adequately provide funds for operational costs as well as preventive maintenance and repair. In the low atolls of the Marshall Islands, maintenance is a special problem, not only for housing and utilities but

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for equipment and machines. The salt air spray which is continually present makes upkeep of equipment especially difficult. Little funds are available for preventative maintenance and barely enough to keep operations going. The one bulldozer in Majuro broke down in June while working on the road on Arno. It is still waiting for parts. The front-end loader in use is at least 10 years old, and the Public Works Office said that "it is in the shop three days a week to get two days operation out of it." The small crane in use at the crusher site broke while the survey Mission was there and parts are expected to take from three to six months to arrive. In the meantime the shop must make do by trying to file down the broken gear and use it in limited service. But limited service will not supply the sand and aggregate required for the accelerated school construction program. Dump trucks are also needed to move the required material to the housing and school building location. The Majuro district sent to headquarters for the FY 1964 budget inclusion, a request for \$120,000 to replace worn out equipment and to stock operating spares. They had not received any acknowledgment of their submission as of the 9th of July 1963. They further submitted another \$200,000 for the same Purpose for the FY 1965 budget. This amount includes \$80,000 additional for equipment that will be needed to support the new construction program.

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The survey Mission was shown a copy of a proposed master plan for construction and repair to the district center facilities, which was submitted in 1960 to headquarters. The Public Works Office said that they had not received any acknowledgment of the plan from headquarters. Given

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these various problems, the major part of the public works activity is on an improvised basis, with little time or funds to do preventative maintenance or planned replacement.

The only public works activity on islands outside the district center is the community road project on Arno which is a 15 1/2 mile road and causeway similar to the Laura road. Again lack of funds and availability of equipment and materials has limited this kind of activity to one or two small efforts.

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Priorities for the construction work in the Marshalls can be divided into two classifications, (1) project priorities and (2) program support priorities. (1) Project priority would be determined by the review and recommendation of the Program Division in headquarters. It would be hoped, upon the acceptance of the survey Mission's report that a clear distinction between project construction and program support construction will be established.

Project Construction

1. New Outer Island sub-centers. (\$1,854,000)

The Mission recommends the development of two outer island sub-centers located at Jaluit and Wotje to serve as nuclei for the stimulation of economic activity and overall development of the Marshalls District. This would involve a substantial construction (high schools, hospitals, toads, power, etc.) with total cost estimated at \$1,854,000. It is suggested that a team of 27 men, 2 U.S. supervisors and 25 Micronesians,

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equipped with the necessary tools and machines, stay on one selected island doing the construction work necessary to develop the above listed buildings. After, or even during the building construction, roads could be constructed with the help of the local community. Land could also be cleared where it was possible to reach by bulldozer. Utilities would be provided for the center and a Micronesian technician could be left in charge. Total equipment cost would be about \$240,000 including 15% operation spares for the first year. If the equipment is amortized over a five year period, the total yearly project cost should be about \$155,000 including salaries and wages as well as providing a 5% contingency fund. The project could pay the central equipment fund the amortization costs on the equipment and the equipment would revert back to the headquarters depot upon completion of the project.

2. Airport Reconstruction & Water Catchment and Storage. (\$1,450,000) This project would rebuild the 80 acre airfield with a more permanent subbase and base course than the existing ones of coconut tree trunks which are starting to rot and protrude in places. It is further suggested that during the design development for the airport, plans be made to use the landing strip for water catchment with drains and sumps on either side which will provide a source of over 114,000,000 gallons of water yearly. Pumps could be installed which would transfer the sump water into storage tanks for purification and distribution, and would provide water purification for almost unlimited expansion.

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This project because of its size and nature, would require programming in three phases. Phase I would be a feasibility and engineering study which would provide the program division with necessary professional advice on the alternatives and possible costs. Phase II would be the design and specifications required to prepare exact costs and a construction schedule. Phase II would only be entered into after selection of the best alternative determined by phase I feasibility study. Phase III would be the final construction stage which would be completed from the design and specifications produced under phase II.

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Because it is necessary for advance programming to project a cost figure prior to developing sound engineering data it must be understood that the provided of the projection purposes only and may change drastically upon the development of more complete engineering data.

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Phase I. Feasibility study, approximately ninety days and should produce exact information as to what the former construction consisted of. Development of at least three alternatives which would include the water requirement as well as the landing strip. Soils studies and preliminary designs and costs for the alternates. Costs: (\$25,000) Phase II. Design and specifications for landing strip and water catchment system as selected by Program Division. About 180 days -- costs \$65,000 -- includes complete design and specifications. Material take off list and construction method. Preparation of all documents to allow for construction contract bidding.

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<u>Phase III</u>. Construction -- should include complete job with equipment left at job site in "new used", condition by contractor, to be U.S. Government property. About 18 months.

II-B-1.

would be propriet out

(\$150,000)

Material	(\$650,000)
Labor	(710,000)
the second and	(\$1,360,000)

3. Sewage and Water Systems on Majuro and Ebeye (\$745,000) Discussions have been under way for some time concerning the desperate need for an improved sewage and water system on the Island of Ebeyein the Kwajalein atoll. With approximately 4000 people crowded onto this small island, sanitary sewage disposal and potable drinking water is a serious problem.

In considering the sewage disposal problem strong consideration should be given to the use of a dilution plant and pumping system. As Ebeyeis a low island and its highest elevation is only a few feet above sea level, the use of a gravity flow sewage system would appear very difficult. However, it is possible that a more careful engineering study of the need and possible alternatives would produce a less expensive method than the dilution plant. Without the benefit of such a study, however, preliminary planning should be on the basis of the most obvious method.

Engineering :	survey and	preliminary	plans -		(\$	8,000)
Final plans a	and specifi	ications -	ace esta	a ling	(32,000)
Construction	& equipment	nt -			(110,000)

- 12 -

An enlarged, more reliable central water catchment system for Ebeye to provide about 500,000 gallons of potable water will cost about \$245,000.

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A sewage system for the village of Rota on Majuro would be practical in the event the additional water catchment at the airport was constructed. It is estimated that prior to a complete engineering survey, a figure in the magnitude of \$350,000 could be used as a planning estimate. This amount should provide for a complete survey as well as plans, specifications, labor and materials for a sanitary system in the village of Rota.

Program Support Construction

1.	Power expansion to provide power to Rota and Laura.	
	(Move 60 KW generator to Laura when additional 500 K	W
	generator installed for Rota.)	(\$ 60,000)
2.	Road improvement in district center as well as	
	Laura road.	(70,000)
3.	Road maintenance.	(20,000)
4.	Replacement of worn out and unuseable equipment	
	in public works.	(300,000)
5.	Addition of water filtration unit and automatic	victation
12.0	chlorination system.	(35,000)
6.	Modification of freezer unit to provide more	
	freeze space	(10,000)
7.	Employee housing construction to replace existing	
	sub-standard housing.	(170,000)

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The total capital requirements of these recommended program support priorities is estimated, following the usual guidelines, at \$665,000.

Public Works in Ponape

The Public Works Office in Ponape consists of the officer in charge and a staff ceiling of five U.S. hire technicians with one position unfilled.

The water system on Ponape-is provided solely by catchment. The system was originally built by the Japanese and had very little modification or improvement since. An abandoned fighter plane airstrip serves as the catchment area with an elaborate system of run off canals which brings the water from both ends and one side of the air-strip about 250 feet down the hill to a settling and storage area. There are four settling tanks and one clear water storage tank of 28,000 gallons. With such a small storage tank the water usage is much greater than the settling tanks can handle. Distributed water is cloudy with a very high silt content. Chlorination is by hand. The demand for safe drinking water is increasing. The people in the villages near the district center want water piped to their areas. There are six community stand pipes in Kolonia and a 2" line into Kapingi village. . The new school construction program and additional U.S. personnel will require much more water than is being produced as clear potable water. Over 100 million gallons of Water per year is collected by the-catchment-system but most of it is spilled away because of inadequate storage.

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The power plant in Ponape is operated with two diesel driven generators of 200 KW each and one 267 KW generator. One of the 200 KW units was broken down waiting for spare parts. The plant is old and very near exhaustion. No expansion of power facilities within the district center can be planned until additional generators of larger capacity are installed.

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The transmission is 2400 volts and in poor condition.

The road system in use throughout the district center was originally constructed by the Spanish, improved and expanded by the Germans and greatly extended by the Japanese. Much of the road system formerly in operation under other administrations has been allowed to deteriorate and in some cases have all but disappeared. There is approximately 60 miles of such road beds on Ponape of which less than 15 miles are in usable condition. About 9 miles of the 15 are located within the district center. Public works attempts some road maintenance but lack of equipment prevents any more than a token attempt.

The high island of Ponape does not have the same maintenance problem that is found in the low atolls of the Marshalls. The heavy rainfall (220-300 inches per year) keeps the salt from doing as much damage as it does in the lower islands, but humidity and continual rain cause other problems. Equipment in the public works district of Ponape is in a very marginal condition. Lack of funds for equipment replacement and adequate spare parts has required the public works district to operate

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equipment that is unsafe and undependable. A D-7 Caterpillar which was dismantled 9 months before for repair is still waiting for the parts from headquarters. The road grader had just been put back into operation after several months of down time waiting for parts delivery. The Public Works Officer stated that the average time required for repairs to be completed on heavy equipment that breaks down is from 5 to 6 months because of the minimal district spare parts budget and the lengthy process required to purchase parts from the central repair depot on Saipan. Sand and gravel for the contractor constructed housing on Ponape is a critical item. The only rock crusher able to produce aggregate is broken down and if several months will be required to repair it, crushed stone for aggregate will not be delivered to the construction site in time to meet the construction schedule. - Even if the crusher is repaired in time now its dependability is questionable. It is several years old, and has been assembled from several different manufactures and many critical parts are no longer manufactured as a standard item. When these parts break a great deal of time and expense is required to have them manufactured by hand and shipped to Ponape.

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There is no public works activity on the outer islands. On the island of Kusaie, the Education department had an education and training specialist who assisted the people of the community of Malem to construct a school. However, he was removed by the DISTAD before the school was completed.

While the members of the survey Mission were in Kusaie the community leaders made a strong plea for public works assistance to help them

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reclaim some of their roads, build a dock, build more schools and to develop a water system and a small power station. The survey Mission stayed overnight at the Fafunsak public elementary school where it was obvious that with just a little technical assistance and leadership great improvement could be made in utilities and roads. But lack of funds and program planning has prevented the district public works from extending the appropriate assistance to the outer islands.

PROJECT PRIORITIES FOR CONSTRUCTION

1. Landing Strip (estimated cost \$1,585,000)

Phase 1 - Feasibility study (\$30,000) a. Location b. Type of construction c. Alternatives d. Soils available e. Preliminary cost estimates

Phase II - Engineering design and specifications (\$55,000) a. Construction method b. Specification for construction method c. Materials for take off d. Firm cost estimate

Phase III - Construction (\$1,500,000) a. Equipment - \$375,000 b. Material - \$225,000 c. Contract - \$900,000

2. Road Improvement (estimated cost \$1,000,000)

Phase I - Location and alignment study (\$20,000)

- a. Miles to be done
- b. Method of construction
- c. Drainage
- d. Elevation
- e. Material source
- f. Structures required and preliminary design
- g. Preliminary cross section design

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h. Cost estimate

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Phase II - Construction (\$30,000 per mile including structures) The Mission estimates that slightly more than 30 miles of the road system in Ponape should be considered high priority to be included in the recommended program for FY '65 through FY '68.

3. Power plant replacement (\$600,000)

Phase I - Preliminary Survey - \$6,000

a. Plans and equipment list.

Phase II - Installation - \$594,000

- a. Power plant
- b. Transformers
- c. Primary-secondary distribution
- d. House drops and meters to nearby villages

4. Boat Channel Dredging and marking (\$120,000)

- a. Use of dredge and barge to clear 100' wide channel for boats with 5' draft at low tide around the entire island would require about 15 miles of dredging.
- .b. Day markers required to locate channel between reef.
 - c. Coral dredged up could be used for road rehabilitation.
- 5. Water system rehabilitation (\$285,000)
 - a. 1,000,000 gallon storage tank (or 2 500,000 gallon tanks)
 - b. Water mains to be replaced
 - c. Distribution to be extended to all surrounding villages
 - d. Automatic chlorination system
 - e. System to be looped and automatic air bleeders installed
 - f. Pressure pumps installed where required.

PROGRAM SUPPORT CONSTRUCTION

1. Technical assistance to Kusaie (\$35,000)

- a. Assist in road rehabilitation
- b. Install 50 KW generator and freezer for fish
- c. Install small telephone with switchboard at radio shack to
- connect the four villages of Lelu, Tafunsak, Malum and Utwe d. Assist in the repair of existing causeway and build a new one between Lelu and Malum island.

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2. Sewage system - \$110,000

Extend present system to serve villages next to district center

y expensive and and

3. Equipment Replacement (\$280,000)

PUBLIC WORKS IN TRUK

The Acting Head of Public Works in Truk has a staff of seven United States hire technicians and over 150 Micronesians. The large dock project recently completed on the island of Moen where the district center is located has served to strengthen the public works in this district since equipment and personnel which would not normally have been in Truk remained after the construction was completed. However, many of the same problems are present in Truk that are apparent in other districts.

The water system on Truk depends on run off for the main supply. During the rainy season run off is enough to supply all the water required and the two deep wells are not used. During the dry season which is about 4 months long, run off is not enough. The two deep wells provide only about 30 gallons per minute, and water rationing is necessary. The water distribution system is old and in poor

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condition and is inadequate to meet new demands. -

The road system on Moen is good. Public works has just completed a road rehabilitation program which has been very successful. There is still some work to be done on the South end of the island and the Xavier school road. No road work has been done or is contemplated on any of the outer islands.

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Power for the district center is provided by 3 diesel generators of 300 KW each. They are very old and are a type no longer manufactured. Spare parts when available are very expensive and are difficult to find. The distribution system has a 240 volt primary and appears to be badly balanced between phases.

Construction in Truk is slow and difficult to keep on a schedule. The Acting Public Works Officer believes that construction time could be reduced by 50% if materials and supplies for the job arrived on time or even in the proper sequence.

Public Works equipment in Truk is in the same condition as was found in other districts; it is generally old, worn out and difficult to maintain, although there is more of it.

The airfield on Moen is being lengthened by about 700 feet, 400 feet on one end and 300 on the other. This is space which has been reclaimed from the lagoon by a gradual filling process of rubble from the work going on the island. This will be surfaced with coral,

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compacted and will make the field that much more useful.

Priorities for construction work in the Truk district:

PROJECT CONSTRUCTION

- 1. Additional source of water and increase of storage (\$350,000)
 - a. Drill four deep wells about 100 to 120 feet/casing of Pump: (\$120,000)
 - b. Construct additional water storage of 1 million gallon (\$150,000)
 - c. Install new distribution system (\$80,000)

There is a possibility that after the wells are drilled additional water storage will not be necessary. Test will have to be made to determine the firm water supply each well will delivery during the dry season. If it proves to be enough to meet the demand the storage tank will not be required.

2.	Rebuild Power system ,	(\$184,500)
	a. Survey to determine extent of work required	(4,500)
	b. Installation of adequate power plants	(100,000)
	c. Rework Primary and secondary system and extend to village areas near district center	(80,000)
3.	Enlarge sewage system and extend to include adjacent villages	(65,000)
	a. Survey to determine needs	_(5,000)
	b. Construction	-(60,000)

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PROGRAM SUPPORT - CONSTRUCTION

 Replace 3,000 feet of fuel oil pumping line Boat Pool to public works area. Present line runs above ground and constitutes a safety hazard as well as blocks entry to private property.

Total Cost (\$35,000)

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- Complete the Xavier Catholic School road 13 miles, and extend the South field road past the new school. Improve the rest of the district center roads and streets - Total mileage of 32 miles (\$10,000 per mile - \$320,000)
- 3. Equipment Replacement (\$420,000)

PUBLIC WORKS IN YAP

The Yap District Public Works Officer and a staff of three United States technicians supervise and direct the work of over 100 Micronesian employees. Although Yap is a small district the public works operation is an extensive one.

The water system depends on run off which is contained in an earth filled open reservoir from where it is pumped for settling and storage to tanks located on telegraph hill. From here the clear water is gravity fed to the end users. The quantity of water available on the island is adequate, but storage is minimal and there is no filteration system or automatic chlorination. A few years ago a 500,000 gallon storage tank was constructed near the dock, but due to some error the present pumping system will only pump down to the last six feet of water. According to the Public Works Officer there is

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also a serious leak in the bottom of the tank caused by the concrete only road roller at the airport all the time to be cracking.

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The tank is not usable as it is, and has been standing dry for a long time. There is no water provided to adjoining villages.

The power plant and distribution system on Yap is small but in reasonable good shape. The diesel driven generators have a total capacity of 480 KW. There is a good supply of spare parts on hand for both the engines and the generators. There is not, however, surplus power to extend the distribution to the surrounding villages. Office a report on the down time deviation of the surrounding villages. For such a small district the road system is fairly large. Approximately 24 miles of fair-to-good roads are now in use by the administration. Most of the roads other than those used to support the administration operation and the road to Giliman are in very bad shape.

The public works equipment in Yap is in very poor condition. The airport construction which has recently been terminated used one D-8 and one standby generator belonging to the district public works. The Public Works Officer said that both units are now worn out and there are no funds to repair or replace them. The rest of the equipment in the district is in very poor condition. The small rock crusher which is located on a quarry face near the Public Works Office is an outdated single pass crusher, still operating, but it is slow

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and costly. The Public Works Officer stated that he has to keep his only road roller at the airport all the time to keep up on the heavy maintenance required. The high school construction also ties up several pieces of equipment as it is generally impossible to move the equipment in or out of the hillside location after a rain. During the past month a great deal of time was lost at the high school job site due to the inability to work the equipment on the side of the hill during wet weather. More seriously, time was also lost because the equipment could not be moved elsewhere because of the poor access road to the job site. There is on file in the District Administrator's Office a report on the down time of the equipment and the days lost for the month of June 15th - July 15th. The equipment time cost is considerable. The barge which was at Yap was sent to Koror for the airport job and the Koror barge was to have been returned to Yap. But as the Koror barge was being towed between Koror and Yap it sank; Yap is now without a barge and the only available sand must be barged in from one of the coral sand bars some distance out in the lagoon. Meeting the construction schedule is going to be difficult if not impossible without a barge. The rock crusher cannot produce sand.

PROJECT CONSTRUCTION

1.	Completely	redesign	and	reconstruct	water	system	(\$	450,000)
	Phase I -	Feasibili	Lty :	Study				15,000)

1. 60 days. 2 men field work plus home office support

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2. System recommendations

(2) Material(3) Laborctric Power Extension to Village	(\$90,000 (\$145,000 (\$150,000 (\$5,000
	(\$150,000
ctric Power Extension to Village	
	(des 000
Survey	(\$),000
Design and specification	(\$15,000
Construction	(\$130,000
White Anti- Barroo A. Samer meaning agent	(\$1,300,000
bor for Deep Draft Ships	(\$1,300,000
se I - Feasibility Study	and the second second
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(1) Alternatives	(\$20,000

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(\$65,000)Phase II - Engineering Design ... (1) Complete design and Specification (2) Material take off (3)Type of Construction (4) Construction schedule Phase III - Construction (\$1,215,000) (1) Equipment (to remain in custody of (\$515,000) Government) (except rental) (\$200,000) (2)Material (\$500,000)(3)Labor Road Construction including \$540,000 drainage, bridges and culverts. About 18 miles of new road required to connect all of the new

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schools to the district center (\$30,000 per mile).

PROGRAM SUPPORT - CONSTRUCTION

4.

2.

1. Road improvement (\$75,000). The existing 24 miles of road on the island of Yap should be re-shaped and drainage repaired. Surfacing of selected material should be applied - this could be carried out over a two year period by public works staff.

Telephone system installation (\$30,000). There is a switch board in the warehouse at Yap to be installed. One technician is required plus additional material.

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Enlargement and extension of sewage system (\$35,000).
 Equipment Replacement (\$250,000).

PUBLIC WORKS IN PALAU

The public works staff in Koror is composed of a public works officer and a United States hire staff of seven. Also working in the area but not part of the field staff are six other United States hire employees who are assigned to headquarters and are working on the airport construction on Babelthuap Island. There are nearly 200 Micronesians employed in almost every skill capacity in the public works operation except supervision.

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The water supply and distribution system for the district center and some of the adjoining Micronesian communities, is a very complex network of interlocking pumps and tanks. The main source of water comes from the Glimel River on Babelthuap Island and is brought from a small check dam in the river across the Toagel Channel with rubber pipe laid l20 feet deep on the bottom of the channel, to Koror. Additional water is taken from a "water cave" and pumped to the main water station near the district center. The water then passes through a system of surge tanks, settling tanks, sand filters and finally into clear water tanks from where it is distributed to the users. The system was installed by the Japanese and has been working for many years without any major change with the exception of installing new pumps on Babelthuap and at the water cave. The end result of all this is inadequate water supply to meet the present demand.

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The power system on Koror is marginal. The three diesel generators are in fair condition and are well maintained but the distribution system both primary and secondary is in very poor condition. Headquarters is to be commended for the contract just entered into with an electrical engineering firm from Hawaii for a survey of the power needs in Koror. If the recommendations of the survey are implemented the power system should be greatly improved and the additional demands for power in both homes and commercial establishments will be partially met. Eventually there will need to be larger generators installed. The present survey is dealing only with the outside plant.

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All the roads on Koror need major repair and maintenance. There are about ten miles of roads and streets in the district center used by the administration which are in immediate need of rebuilding. Drainage, realignment and grading will be required to save the sub-grade and subbase from further damage. A proper surfacing with some impervious material is also indicated to reduce future maintenance. The private car Population is larger in Koror than in any other district.

With the construction of the airport on Babelthuap about $4\frac{1}{2}$ miles of road will be opened up from the old ferry dock to the airport site. Part of the road has been constructed but the major portion of it must wait for proper materials to arrive to construct the necessary bridges and drainage culverts. This will be the first road opened on Babelthuap. It is estimated that there is about 120 miles of old Japanese roads on

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Babelthuap all of which has gone over to the jungle. To restore them now or even a part of them will be a costly job.

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Construction conditions in the Palau District are somewhat different than in the previous districts by the presence of several local contractors who have shown some competence in simple building construction. The present school building program is being assisted by some of these contractors who have already started construction on some of the schools. This leaves the public works free to carry on its operation responsibility.

Under the direction of the headquarters public works division an airstrip is being constructed on Babelthuap Island. Separate funds and personnel are also assigned with only nominal support being given by the district public works. The supervisor of the construction was also supervisor of the Yap airfield.

Engineering plans and construction specifications which were shown the Survey Mission were very inadequate to construct such a major structure. No design or drawings for drainage was found at the job site. Compaction test records of the progressive lifts were also not in evidence. Neither were CER (California Bearing Ratio) test standards for the soils being used, found. The Mission was told that the soils test equipment had been shipped back to Yap sometime ago and no further tests were being made at the job site.

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Three of the four-eight tractors and bulldozers used on the job were down for major repair. The large #80 shovel which feeds the rock crusher was also disabled and had been for sometime. There were only four pieces of equipment working during the day long inspection made at the airfield. One caterpillar D-8, one pan and two road graders. The supervisor of the airport job stated that the dirt moving alone on the airstrip would cost \$600,000 and that completion of the work had been scheduled for July of 1964 but that it was likely to take a little longer, perhaps to December 1964.

Most of the heavy equipment assigned to Koror is in the same condition as equipment found throughout the Trust Territory. It is old, worn out and undependable. Inadequate repair budgets and replacement programs has forced the district to repair the equipment at a very high cost to the operation budget.

PROJECT - CONSTRUCTION

1. Water supply and storage

- (1) Study of existing surveys
- (2) Updating of existing surveys
- (3) Recommendations based on existing updated survey

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- (4) Complete plans and specifications
- (5) Construction

(\$ 500,000) (\$ 5,000)

(\$20,000)

(\$475,000)

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2.	Road Dev	elopment on Babelthuap	(\$525,000)
	Phase I	- Location and Alignment Survey	
	(1)	Location of road building material source	
	(2)	Alignment of selected roads	
	(3)	Drainage and bridges	(100,000)
•	(4)	Types and quality of construction	
.5	(5)	Alternatives	
	(6)	Preliminary plans and center line plot	
	Phase II	- Preparation of Plans and Specifications	
•	(5)	of selected roads and Type of Construction	(\$10,000)
	(1)	Material required	and the second
	(2)	Grade of material	
	(3)	Test required	((1,16),000)
-	(4)	Method of construction	
	(5)	Suggested control	
	(6)	Surfacing material	- (495,000)
	Phase II	II- Construction	(\$470,000)
1	(1)	Special equipment	(30,000)
	(2)	Use as much local labor as possible	
3.	Landing	strip - Babelthuap	(\$1,200,000)

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(\$10,000)

- Phase I Engineering Survey
 - (1) Material being used
 - (2) Location of material supply if present

material unusable

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II-B-1. (4) Compaction tests of present fill. he public works office on Salpan has a chief and three Unived States (5)Alternatives estioved, to stretting substitutes letter a relationstation econd of Via (6) Preliminary drawings to support alternatives ers in supervision of Lus office on dispar terminant constraints with the Phase II - Complete drawings and specifications (\$25,000)(1) · Type material required Calmpnient. (2)Tests required for construction int entity (3) Drainage plans (4) Inspection procedure (5) Proposed construction schedule Linger & (6) Equipment list (7) · Material list -Phase III - Construction (Contract) (\$1,165,000) (1) Resident Engineer (Contract) handfor istanting is within the statements PROGRAM SUPPORT - CONSTRUCTION Sewage extension to adjacent villages (\$35,000) -1. Road repair on Koror (\$50,000) 2. - 3. Move petroleum, oil and lubrication storage yard (\$40,000) Public works facilities improvement (\$25,000) (\$300,000) 5. Equipment replacement program

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PUBLIC WORKS - MARIANAS

The public works office on Saipan has a chief and three United States hire employees to supervise approximately 150 Micronesians none of whom are in supervision. The office on Saipan serves the other two islands of Rota and Tinian. There are six Micronesian public works employees permanently stationed on Tinian.

The entire facility on Saipan which comes under operation and maintenance of the public works office was constructed by the Navy and turned over intact to the Trust Territory Government. Therefore most of the roads, utilities and shops are in good condition. However, there is evidence already of the lack of an adequate maintenance budget. Some of the rotds are beginning to unravel and jungle growth creeping in on the sides. One of the 700 KUA diesel generators is broken down and waiting for spare parts. This puts more of a load on the remaining machines.

The water system depends on six deep wells and two small springs. Storage capacity is about three million gallons which is about three days supply, estimated consumption being one million gallons per day.

Maintenance tools and equipment on Saipan are in the same condition as in the rest of the districts, that is, badly in need of replacement.

The Mission does not recommend any project type construction priorities for Saipan.

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PROGRAM SUPPORT - CONSTRUCTION

1.	Overhaul #1 Engine at power plant	(\$63,000)
2.	Overhaul water cooling system at power plant	(\$35,000)
3.	Road maintenance and repair	(\$35,000)
4.	Equipment replacement	(\$85,000)

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PROBLEMS OF THE PRESENT SYSTEM

Professional program planning is a tool which if effectively used can be the single most effective device for such an organization as the Trust Territory Government, especially in the Department of Public Works. Long range program plans are necessary to base reasonably accurate budget estimates as well as regulation and recruitment of labor forces and more effective use of special equipment.

It was noticed by the Survey Mission that the districts were often unable to complete plans for their yearly programs until after headquarters informed them of the amount of their appropriation. In many cases, this prevents the districts from exercising the most effective use of their time, manpower and funds, since there is then a tendency to use the money on requirements of the moment, letting the long range programs go.

The Public Works function in the Trust Territory breaks down into <u>two</u> main responsibilities: (1) The construction of, and the operation and maintenance of the Trust Territory Government facilities and employee housing. Providing all necessary utilities and their continuing upkeep.

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With a few exceptions these offices appear to be staffed with personnel qualified to perform this operational and maintenance responsibility. These are men who have had a great deal of experience in similar occupations elsewhere in the world. Most of them originally came into their present jobs via work with the Navy in Guam or Saipan. It was further moticed that it was the rule rather than the exception to find that most of the public works personnel had more than five years of service with the Trust Territory. There is some danger in over long employment abroad but it is usually more critical in positions outside the district public works departments. The Mission was, however, impressed by one remarkably uniform characteristic of Public Works officials -- their high capacity for alcoholic beverages. (2) The second main responsibility is not so clearly a traditional function of public works. This responsibility is found in the Headquarters Office and includes planning, estimating, professional engineering services to the districts. In this function the Public Works Division is not as well provided with qualified Personnel nor does it think of itself as a service agency to the district. Rather it emphasizes its supervisory function.

The Headquarters office has only one graduate engineer on the staff, and to professional engineers at all. The concept of a sound engineering approach to a major construction job does not appear as consistently as is desirable. The burden of this attitude is transferred to the district there they must supply the lack of proper support by trial and error and doing the best they can. But the most serious lack is in the area of

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planning. A well staffed properly motivated engineering office can supply the program planning office with well prepared estimates and long range construction plans so as to make the planning operation realistic and meaningful. Budgets prepared from well supported planning documents have less trouble meeting questions and requirements in Washington. Also, and probably more important, well prepared planning documents takes a great burden off the field staff which is charged with the ultimate responsibility of completing any given project.

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Good planning supported by professional engineering judgement must be supplied to the field by headquarters. This would place the responsibility on professionally qualified people for spending large sums of public funds which are required on major construction projects and would not force such responsibility upon a construction supervisor. No construction job of the magnitude of the Palau airport should be undertaken without plans and specifications signed and sealed by a professional engineer. This type of a construction project involves not only large sums of Public funds (at least \$600,000) but involves the safety of human beings Who will use the landing strip when completed. The plans for this field, that were shown to the Survey Mission, was a one sheet original drawing Prepared by the Land Title Officer in Palau (who is an engineer) and consists of a topographical survey of the proposed site and a suggested alignment. It also had some cross sectional views which were added by the Land Title Officer in his spare time. This sheet was sent to Head-Warters where it was changed slightly, signed by the Chief Land Title

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Officer (who is not a professional engineer) and then returned to the field where the construction superintendent is building the landing strip. It does not require a professional civil engineer to judge that this method of constructing an airport in the U.S. or any other place using U.S. public funds is less than desirable.

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This type of operation is very likely to duplicate itself several times in the next few years if the system is not changed to prevent it. Prior to 1963 the maximum yearly construction budget for the Trust Territory was less than \$1 million dollars. In the two years FY 1963-64 the combined construction budget has increased over 1000% or in excess of 10 million dollars. A 10 million dollar construction program should not be left to easual engineering.

RECOMMENDATIONS:

It is recommended that the office of the Director of Public Works be abolished and an Office of Engineering and Construction be established. The District Public Works office would remain under the District Administrator but with absolutely no supervisory control from headquarters emept as inspectors, and examiners are sent out from headquarters.

The district public works office would remain a local administrative responsibility of the District Administration.

All support and backstop for the districts would come from the Engineering and Construction Division. This division would be handled by a qualified

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registered engineer and would have professional engineers on his staff in the field of Civil (highways, airports - water) electrical, and mechanical. An office engineer would be in charge of the several draftsmen required and a construction supervisor would head up a staff of inspectors and contract supervisors.

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It is further recommended that all major construction work be done under contract. Also that all major construction work be preceeded by an accelering feasibility study done by others, from which detailed plans may be completed by the Engineering and Construction Division or done by others.

To major construction work is to be performed by the district public Works office. They will occupy themselves with maintenance and operation and with an occassional small construction job if equipment and men are available to do the job quickly and without jeopardizing the regular Operation.

As a guide, any job \$35,000 or under could be done by the district if Acted upon by the program office and the district administration. No No bo over \$35,000 except in unusual circumstances would be done by the district public works. Any job between \$35,000 and \$75,000 can be done W a negotiated contract if the Program Office concurs and the Engineerty and Construction Division has a qualified contract supervisor on its Main available to monitor the contract. This provision is not intended

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to restrict the use of a bid if so desired. All contracts over \$75,00 <u>must</u> be entered into on the basis of bidding unless a special waiver is granted by the Secretary of the Interior. Each contract of this nature must have a contract supervisor assigned by the contract officer who will familiarize himself with all aspects of the contract and interpret the views of the Trust Territory Government to the contractor during the life of the contract. This person can be a staff member or may be contracted for from an accepted engineering firm. The contract officer and the contract supervisor could, in some cases, be the same person but it is not desirable that this be done too often.

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Chapter 2

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SEA AND AIR TRANSPORTATION

SURFACE TRANSPORTATION IN THE TRUST TERRITORY

Surface transportation in the Trust Territory is provided in two ways: (1) Two logistics vessels make a circuit from Japan to all district headquarters and Guam. On the circuit, cargo from Japan and Guam is discharged and copra to be offloaded in Japan is picked up. The logistics vessels are also used for interdistrict transportation of passengers and cargo. Logistics vessels operate on a 70 day turnaround basis which ideally provides 35 day service to each district headquarters. (2) Surface transprtation <u>within</u> each district is provided by field trip vessels which much district is provided by field trip vessels which much of the outlying islands providing administrative governmental services, copra pickup service and trade goods delivery service. Mield trip vessels operate on schedules set up by each District Administration (DISTAD) and they provide service to the outer islands which waries from 30 days to 180 days depending on the situation existing h each district.

both the logistics vessels and the field trip vessels are well run ships and provide the best service they can considering the finanacial limitations under which they operate. All of the ships except two field trip vessels are old, having been built during World War II. They are relatively expensive to operate. Because of these high operating and maintenance costs and the limited budget of the Trust Territory, new

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construction replacement ships except for the two field trip vessels have not been possible.

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Operational Management

The operational management of the logistics vessels and the field trip vessels is done by the Pacific Micronesian Line (PML), a subsidiary of the Pacific Far East Line on a cost plus fixed fee basis. PML provides officers and crews for the vessels, handles all of the logistics services required by the vessels and in coordination with the High Commissioner, issues the schedules for the vessels. PML assigns the field trip vessels to the DISTADS for field trip operations.

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Logistics Vessel Problem Areas

The logistic vessel operations present relatively few problems. The seventy day turn around with two ships schedule provides adequate service to the districts. During the firs't phase long range program through fiscal '68 when scheduling problems are solved, the two ships will call at each port every 35 days. Delays in loading caused by rain, and delays enroute caused by storms, are facts which must be accepted in any shipping operation. One problem area in scheduling, however, should be mentioned. In Koror the frozen fish industry is setting started. The reefer storage capacity in Koror is 25,000 lbs. Now and will shortly increase to 75,000 lbs. At present, the frozen fish is loaded into both logistics vessels in the space vacated by the frozen imports into Koror on the outbound voyage. On the return

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voyage, the GUNNERS KNOT usually returns to Guam from Truk, bypassing Koror. The PACIFIC ISLANDER, however, does call at Koror on its return voyage and picks up frozen cargo. As the frozen cargo capacity of Koror increases, it may be necessary to divert GUNNERS KNOT to Koror to provide additional frozen cargo space.

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General Field Trip Problem Areas

Although each district has problems peculiar to itself, all districts have certain problems in common such as:

a. Lack of communication to the outer islands. Since copra is the main cash crop in the outer islands, the producers must know well in advance when the field trip vessel will call to pick up the copra. Copra does not store too well in the field and the producers will make it only when they feel sure it will be picked up. They must have a way of being notified of the field trip vessels schedule. This problem is solved in those districts having a broadcast station in District Headquarters. Broadcast stations should be installed in those District Headquarters which do not now have them. The stations should be of sufficient power to reach the outlying islands.

b. Lack of navigational aids in the outlying atolls. Navigational aids in the harbors of the District Centers, installed and maintained by the Coast Guard, are adequate for daytime use and navigation in these harbors presents no problem to the masters of the Trust Territory vessels. However, in the outlying atolls the Coast Guard does not install or

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maintain navaids. The vessels must pass through the reef and navigate within the atoll strictly by segman's eye, depending on the sun to help the master identify the shoal areas. Much time is lost waiting for the sun to be in the right position to make navigation possible. The low number of groundings to date while operating under these extremely difficult conditions certainly speaks well of the professional qualifications of the masters employed by PML. Navaids have been installed by the people of some of the atolls under the direction of the ship masters butthis has been done in very few of the atolls because of the lack of time available to the masters due to tight scheduling.

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c. The necessity to employ field trip vessels in tasks which detract from their field trip operations. These tasks include among others; student-teacher lifts during the summer months, judicial lifts which require moving the district judge to an island to hold court and congressional lifts which require picking up and returning congressmen from the district congress meetings.

d. Combining field trip operations and commercial trading operations on the same field trip vessel. A conflict often occurs between the desire of the field trip personnel (medical, dental, sanitary and administrative) to spend more time in the outlying islands and the desire of the copra buyer and trade goods sellers to get the trip over With as quickly as possible. To the field trip personnel time means the ability to do more for the local people but to the commercial

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personnel time is money and they desire to consumate their business as quickly as possible and get to the next island full of customers. The obvious solution to this problem would be to have a field trip vessel for commercial operations and a field trip vessel for field trip operations. However, the cost of such a solution would be prohibitive. The Mission feels that if the additional field trip vessels, as mentioned later in this report, are provided, then the interval between field trip visits to the outlying islands would be reduced and therefore it would be practical to leave some of the field trip personnelashore on the islands to be picked up on the next trip.

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e. The necessity to provide more frequent field trip service. One of the most frequent complaints heard by the Mission was that the field trip vessel didn't visit often enough. It was found that the average community in the outlying islands produces enough copra to buy enough trade goods to last for approximately six weeks. Although more copra could be produced, it was not done because of the spoilage caused by too few pickups and inadequate shoreside storage space.

Specific Field Trip and Boating Problem Areas

a. <u>Marshall Islands District.</u> The Marshalls produce the greatest amount of copra in the Trust Territory. The problem is to pick it up at six week intervals on a dependable, scheduled basis. The presently assigned field trip vessels (ROQUE, RAN ANNIM and privately owned MIECO QUEEN) are not sufficient even though they are being operated to their limits, to provide this service.

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b. <u>Ponape District.</u> Field trip service provided by KASELEHLIA to the outer islands is excellent. On the island of Ponape, however, road transportation is practically non existent to those areas which are adjacent to the perimeter lagoon. Four cooperative copra warehouses and trading goods stores are either proposed or in operation adjacent to the lagoon. The problem is to provide water transportation to these co-ops to the extent that the Mission's over-all priorities do not call in near future for road construction to these areas. This is possible now only at high tide since at low tide, many areas are impassable for the type of boats required for this operation.

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c. <u>Truk District.</u> The Truk District has the largest population of all the districts, and the problem here is moving people rather than cargo. The field trip vessel, MILITOBI, serves the islands outside the Truk lagoon, MILITOBI has a large cargo carrying capacity which is only partially utilized and a limited amount of passenger space which is not capable of meeting the passenger lift demand. Within the Truk Lagoon there are private boats providing passenger and cargo transportation but this is not adequate to meet the needs of the area. Also within the Truk Lagoon there is no means of providing rapid, dependable, emergency, all weather boat transportation for medical and police emergencies.

d. <u>Yap District.</u> Field trip service in the Yap District is provided by the EFROL. ERROL is also used for shuttle service between Saipan and Guam, for certain Saipan District field trips and for the

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Palau District field trips. As a result the field trip service to the outer islands in the Yap District is not frequent enough.

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e. <u>Palau District.</u> As noted above, field trip service to the four outer islands of the Palau District is provided by ERROL. Although the DISTAD tries to schedule service to these islands every three months, service in the past year has averaged every six months. Ferry service to connect Koror and Babelthuap is needed. Ferry service from Anguar to Koror is provided by a 50 foot passenger ferry owned and operated by the Anguar municipality. The boat is two years old and is in good shape. Ferry service between Pelelieu and Koror is provided by two decrepit, converted, Navy 50 foot motor launches. Although they are still operating, their life expectancy is rather short. The harbor channel at Anguar needs to be cleaned out.

f. <u>Saipan.</u> As noted above, Saipan District is served by ERROL (when needed and available) and by the FCUR WINDS, a wooden hull, 543 ton vessel, privately owned by the Saipan Shipping Company. Preference is always given to the FOUR WINDS in order to encourage private enterprise in this district. Field trip service to the northern islands is provided once every three months. The break-water in the port of Tinian is deteriorating and will not last much longer. The harbor at Rota needs cleaning out.

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Port Facility Problem Areas

In general the pier facilities at each district headquarters are adequate to meet the needs of the district except for Yap, Truk and Ponape. In Yap, the existing pier will handle only the field trip vessel. The logistics vessel must anchor in the harbor and cargo must be lightered to and from the pier. The geographical layout of the existing pier area precludes its expansion. To build a pier large enough to handle the logistics vessel will require relocation of the pier to an adjacent area. In Truk the newly constructed pier is too high for the field trip vessel to use its booms to handle cargo. Cargo handling is accomplished by using shoreside cranes. In Ponape the pier facilities are adequate but the pier is located on an island which has no road connection with the main island. The cargo must therefore be lightered to and from the main islands.

Cargo warehousing presents more problems. In Truk the trans-shipment warehouse is an old quonset hut which has outlived its usefulness and is too small to handle the amount of cargo received. In Yap, the copra warehouse is also a quonset hut which will handle only the copra collected on the "short" field trip. When the field trip vessel returns from the "long" field trip, the copra in the copra warehouse is backloaded into the vessel and shipped to Palau where a larger amount of storage space is available. In Koror, although the warehouses are in excellent shape, they are too small to handle the ever increasing tonnages being shipped into Koror. Lighterage is adequate in Ponape but in Yap

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the cargo lighter has been sent to Palau to assist in the airfield project. The lighter which Palau sent to Yap to replace it sank at sea. Because of this unexpected calamity, Yap must lighter cargo to and from the logistic vessel on a diesel oil barge which has pipes, valves, and raised scuttles on its deck which makes cargo handling difficult. Throughout the territory the LCM's which are assigned to public works and which act as tugs for the logistics vessels were apparently in satisfactory condition and they are maintained by the District Public Works Department boatmen.

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RECOMMENDATIONS:

a. <u>Marshall Islands District.</u> (1) Transfer MILITOBI to Marshalls to provide increased shipping capacity. (2) Establish copra storage warehouses and trade goods stores in the heavy copra producing atolls to act as a collecting point for the copra and to reduce the number of stops within the atoll. (See Economic Division Section of Mission's report on suggested measures of implementation.) (3) Provide small boats (21 ft.) powered by a diesel outboard for intra-atoll copra shipping.
(4) Install daymarkers in the atoll lagoons to improve navigation and speed up operations within the lagoon. The daymarkers can be manufactured by the district public works machineshop out of reinforcing rods and sheet steel as a rainy day project. The daymarkers can be installed by the local municipality under the supervision of the Peace Corps Volunteer in the location picked by the master of the field trip vessel. This manufacture and installation procedure applies to the other districts also.

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b. <u>Ponape District.</u> (1) Leave KASELEHLIA assigned to Ponape. (2) Dredge channels in the Ponape perimeter lagoon to provide low tide boat transportation to the copra co-ops. (3) Provide a boat which would be capable of carrying passengers and cargo to provide boat service in the perimeter lagoon. Boat should be 40-50 ft. long with a draft not to exceed 4 feet. Boat could be operated by DISTAD and turned over to private ownership after an initial period. (4) Install navaids in the atolls which do not now have them (Captain Blanc in Ponape has made progress in this respect so far). (5) Install a radio broadcast station whose over-all priority is justified by other considerations (see section II-B-3 of this report), which among other things could broadcast field trip information to outer islands.

c. <u>Truk District.</u> (1) Replace MILITOBI with the field trip vessel to be constructed in FY '64. Modify this vessel to provide a twin screw engineering plant to increase its maneuverability in the restricted waters of the atoll lagoons. Install booms capable of working cargo at the Moen pier. Increase the passenger carrying capacity of the new ship as much as practicable by redesigning the TATAMI passenger cabins and using Coast Guard approved inflatable life boats in place of wooden boats. (2) Set up a ferry boat service within Truk lagoon to provide daily service to the islands south of Moen and west of Moen. This could be done by using two 50 ft. motor launches and utilizing existing Japanese pier facilities in the islands. A minimal amount of dredging would be required. The ferry service could be set up and

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operated by DISTAD during an initial period and turned over to private ownership after the operation was established. (3) Provide a 15-20 knot radar equipped boat to be operated by DISTAD for day and night medical and police services within the Truk lagoon. This would also make unnecessary, in the Mission's judgement, the proposed construction of the field hospital at Toll, one hour away from the District Center hospital at Moen. This would require the installation of additional navaids some of which should be equipped with radar reflectors. (4) Replace the trans-shipment warehouse in Moen.

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d. <u>Yap District.</u> (1) Move ERROL to Saipan. (2) Construct a new vessel similar to the one in the 1964 shipbuilding program and assign it to Yap. Operate it on a 30 day field trip service to the outer islands in the Yap District. Every three months send it to Palau for field trip service to the southwest islands. (3) Increase the size of the copra storage warehouse.' (4) Provide an adequate lighter to handle the cargo from the logistics vessel. (5) Install navaids in Elato atoll lagoon. (6) Install a broadcast radio station, justified by other priorities, which could broadcast field trip information to the outlying islands. (7) Build a new pier and port facility which could be located on the east side of Donitch Island at the edge of the reef. Donitch Island could be cleared and used for warehouse area. A causeway would connect Donitch to main island.

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e. <u>Palau District.</u> (1) As the frozen fish industry in Palau increases, schedule both logistics vessels into Koror on their return trip to increase the amount of frozen exports from Koror. (2) Provide a car and passenger ferry between Koror and Babelthuap. The Trust Territory has plans for a ferry which would be adequate. Additional terminal facilities would be required on the end of the existing causeways. The design of these terminal facilities should be closely coordinated with the design of the ferry to insure compatibility due to the six foot rise and fall of the tide in the channel between Koror and Eabelthuap. (3) Increase the size of the trans-shipment warehouse in Koror.

f. <u>Saipan District.</u> (1) Move ERROL to Saipan. Continue to use FOUR WINDS to provide field trip services to northem Marianas Islands. Use ERROL for this field trip service and shuttle runs between Saipan, Tinian, Rota, and Guam when FOUR WINDS is not available due to other committments. Also use ERROL as a replacement vessel for other field trip vessels during their annual overhaul. This replacement service Would use up about 40 weeks per year. Use ERROL to assist other districts in their special lift requirements such as student-teacher lifts during the summer months.

Note on Recommendations:

a. A new Ponape dock is not high priority enough in the Mission's Judgement to include in the program of fiscal '68. Also, the replacement of the World War II built field trip vessels, the ROQUE, RAN ANNIM, and

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ERROL can be deferred until after 1968. They should be replaced by MILITOBI class vessels because of their large cargo carrying capacity. The horsepower of these ships should be increased to provide a cruising speed of 12 knots (as compared to $9\frac{1}{2}$ knots now possible in MILITOBI) in order to permit night time transits between atolls 140 - 160 miles apart.

b. Certain harbors, passes, and channels in various islands and atolls not mentioned specifically above require dredging and/or blasting to improve field trip and small boat operation. An extensive territory wide survey should be made to determine the extent of what is required and the recommendations of this survey should be implemented as funds become available.

Capital Requirements of Recommendations

Note: All cost figures are, of course, rough estimates and are subject to modification as more accurate information becomes available.

a. Marshall Island District

Copra Warehouses in atolls 20 concrete block bldgs. @ \$11,000	\$220,000
21 foot atoll boats (24@ \$1500)	36,000
Navaids	10,000

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b.	Ponape District	
	Perimeter Channel Dredging	\$-120,000
auto and	Co-op Servicing Boat	20,000
	Navaids whether	5,000
		\$ 145,000
с.	Truk District	100,000 (C
	Field Trip Vessel	\$ 150,000
	Ferry service for Truk Lagoon (2 boats @ \$20,000 each)	40,000
#1 X* 22	Minimal ferry pier dredging	10,000
	Radar equipped emergency boat	- 30,000
400020	Navaids	5,000
nape t	Trans-shipment Warehouse	60,000
	and the source the second list is set of the second	\$ 295,000
-20 20	and the second star would be along the IIII	all, durant by
- d.	Yap District	of My Stathart
	Riald Unin Vorcel	\$ 150,000

 Field Trip Vessel
 \$ 150,000

 Cargo lighter
 50,000

 Copra storage warehouse
 30,000

 -Navaids
 -1,000

 \$ 231,000

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 Palau District

 Vehicle, passenger and cargo ferry
 \$ 60,000

 Terminal facilities
 200,000

 Trans-shipment warehouse
 60,000

 \$320,000

a field trip operations

\$1,257,000

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Private Operation of Field Trip Vessels

TOTAL

All of the recommendations made in this paper concerning the field trip operations were based on the assumption that the Trust Territory (and PML) would continue to operate the field trip vessels. However, it is understood that the shipping company controlled by Carols Etscheit in Ponape is negotiating with Trust Territory to take over the field trip operations in the Ponape District and later on in the Truk District. In the Ponape District this would involve using the TUNGARU, owned by Etscheit, and the KASELEHLIA. KASELEHLIA would be operated by Etscheit using Micronesian personnel. This would lower the operating costs of the ship considerably since the salaries of the Micronesian master and chief engineer would be about one-third that paid the Americans now doing the job. It is understood that the agreement has not been finalized as yet and therefore the details are not known. However, it is felt that if proper field trip operations can be provided under private operation, the private operators should be given a chance. It is understood that the KASELEHLIA would be subsidized and therefore would operate as a common carrier with equal rights given to all traders (including the

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Etscheit's trading competitors). However, the Trust Territory will have to insure that proper field trip service at a proper interval is given to all outlying islands, not just those which have the highest commercial potential. The field trip service in the Ponape District has been excellent (albeit expensive) in the past. The Trust Territory will have to monitor and control the field trip operations very closely in the future if it goes to private operation to insure that the same high standards are maintained.

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Future Surface Transportation Improvements

The Trust Territory has prepared a long range construction program up torestimate the trust territory of the construction of ships to be used in the Trust Territory. The total cost of this program is \$600,000 and it covers the period FY '63-68. In FY 1963, \$74,000 was provided for the construction of a small ship to service the islands of the Truk lagoon. The ship has not been ordered as yet and the funds could be used for the two boats recommended for the Truk lagoon ferry service in paragraph 7¢ of this report costing approximately \$40,000. The remainder could be used for the radar equipped emergency boat also recommended for Truk lagoon service in paragraph 7c. In FY 1964, the Trust Territory budget includes an item for \$150,000 for the construction of a field trip vessel. This could be used to build a vessel to service the Truk District. On its delivery, MILITOBI could then be moved to the Marshall Islands District as recommended in paragraph 7a. There is also an item for \$50,000 in the FY 1964 budget for

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small boats. Since the cost of the field trip vessel is expected to be about \$130,000, the funds remaining could be added to the \$50,000 to provide the ferry boat to be operated between Palau and Babelthuap as recommended in paragraph 7e. In FY 1965, \$150,000 is planned to cover the cost of another field trip vessel. Upon delivery, this vessel could be assigned to Yap releasing ERROL for assignment to Saipan District as recommended in paragraphs 7d and 7f. In the period FY 1966-1968, \$226,000 is programmed for unspecified purposes. This estimate should be replaced by approximately \$1,400,000 to finance the capital investment priorities of surface transportation outlined in this section up through FY 1968.

ich correct accounting practices, and

Ectimated Operating Costs

The estimated gross operating cost of the surface transportation services for FY 1964 is \$1,380,000. Assuming that the field trip vessel to be built in FY 1964 is in operation in FY 1965, the estimated operating cost for FY 1965 should be about \$1,500,000. Assuming that the field trip vessel to be built in FY 1965 is in operation in FY 1966, the estimated operating cost for FY 1966 should be about \$1,650,000. For FY 1967 and 1968 when the new vessels to replace the ROGUE, RAN ANNIM, and EPROL should be operating, the gross operating costs would run about the same or slightly less than FY 1966. Anticipated cash revenues for FY 1964 is \$600,000. For FY 1965 cash revenues are estimated to be \$800,000 and for FY 1966, \$1,000,000. For FY 1967 and 1968 the revenues will probably increase at a slower rate since the

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number of vessels will remain constant and the increase in copra production arising from more transportation facilities would have been realized by then. Therefore the cash operating deficits to be financed from the Trust Territory Government operations budget services over the next five years are estimated roughly as follows:

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and the second	FY	1964	Harrist and a constant	\$ 780,000	
	FY	1965	to Rotal and State	700,000	
814-11-2	FY	1966	Cheese brazes ays	630,000	
pa0	FY	1967	tah regittelenses	630,000	
***	FY	1968	a la companya a serie da la companya da la company La companya da la com	630,000	

However, in accordance with correct accounting practices and the general recommendations of Part III of this report, the shipping business of the Trust Territory Government should be handled separately from its general accounts. Government passengers and government cargo should pay appropriate rates rather than be transported free so that the amount of profit or loss is clear to everyone concerned.

AIR TRANSPORTATION IN THE TRUST TERRITORY

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The Trust Territory has one DC-4 and two SA-16 aircraft which provide airline service to all of the district centers plus Guam, Rota and Kwajalein. The airline is operated by Pan American on a contract basis. The contract calls for Pan American to fly 360,000 miles per year. The rate is \$2.3057 per mile for the DC-4 and \$1.861 per mile for the SA-16 for up to 29,700 miles per month. If the mileage exceeds this figure,

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the rate per mile decreases to \$1.9348 for the DC-4 and \$1.4901 for the SA-16. However, a premium of \$2,830 is charged for each increment of up to 5,600 miles flown over 29,700 miles per calendar month. This increment covers the cost of additional crews which must be brought in to fly the additional miles. Service is provided from Guam to Yap, Palau, Truk, Ponape, Kwajalein, and Majuro on a weekly basis using SA-16 aircraft. Service from Guam to Rota and Saipan is provided thrice weekly using the DC-4. All places served by the airline have sirfields except Ponape and Palau which require water landings. An sirfield is being constructed in Babelthuap which will service Palau District. The completion date of this airfield is indefinite. An airfield is being considered for Ponape but as yet the site has not been approved. When the airfields are completed the SA-16 aircraft will be phased out since they are expensive to operate and the spare parts problem is getting worse. The DC-4 seems to be the logical replacement for the SA-16.

Problem Areas

The DC-4 service between Guam, Rota and Saipan presents no problems. The flights are short and the passengers and cargo are transported expeditiously. When additional flights are required because of additonal demand, more flights are scheduled with a minimum of fuss. Since the DC-4 carries 39 passengers and 2000 lbs. of cargo, sufficient space is available to meet the needs of the area served. However, the SA-16 flights to the areas southwest and southeast of Guam do not run so

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mothly. The SA-16 aircraft is small. It can carry only nine to welve passengers and has a much smaller cargo capacity than the DC-4. Is a result the demand for space usually exceeds the supply. Passengers and cargo must wait in the districts while higher priority passengers and cargo get the space. Although the priority system is fair and is being properly administered generally, there have been isolated instances where it has been abused. However, no priority system can overcome the handicaps of insufficient aircraft space and therefore passengers are subjected to expensive delays in the districts while witing to proceed onward.

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The Mission recommends that airline service in the Trust Territory We increased as follows:

1. Five DC-4 flights per week from Guam to Rota and Saipan instead at three now being made.

2. Two SA-16 flights per week from Guam to Koror and Yap instead

Line & Barry Dra berra

3. One DC-4 flight per week from Guam to Truk, Kwajalein, and

4. Since Ponape will be bypassed by the DC-4 because of lack of Whiled facilities, the Mission recommends that an SA-16 be based at

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Kwajalein. If a need for air service between Kusaie and Kwajalein should develop, the SA-16 could stop at Kusaie on its way to Kwajalein since the trip is only 80 miles further. However, if stops at Kusaie are made, a seaplane ramp and fueling facility would be required.

II-B-2

5. The present contract with Pan American should be renegotiated as is the intention of the Trust Territory Government, but that the Civil Aeronautics Board be brought in to assist the Trust Territory in the renegotiations. The present contract with Pan American is for 360,000 miles. The recommended schedule requires 480,000 miles per year to be flown. Since the utilization rate for the aircraft would be better under the recommended schedule the costs per mile should be lower "Unen they are in the present contract.

Private Commercial Operation of the Trust Territory Airline

Pan American has been surveying the airline situation in the Trust Territory to determine whether it is feasible for them or a subsidiary to take over the operation on a commercial basis. Their survey is not complete and many problems concerning, among others, subsidy, tariffs, communications, navaids, and flight crew personnel would have to be resolved. The Pecommended schedule listed above was a tentative one prepared by the Pan American representative with which the Mission was in agreement. In addition to the possibility of a satisfactory arrangement with Pan American, the Mission understands that the Federal Aviation Agency might be interested in operating the Trust Territory airline. Both of these Possibilities should be explored further by the Office of Territories

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mi by the Trust Territory Government.

mesent System of Operation Versus Commercial Operation

is to the merits of the present system of operation versus commercial operation, it boils down to the service furnished and the cost to both the astomer and the Trust Territory. Pan American is undoubtedly making mey on its contract or it would not be so anxious to renew, but the must Territory Government has no way of knowing if it is excessive under the present arrangement. It is clear that although the present cargo and Assenger rates are high (except on the Guam - Saipan run) some subsidy the government will be necessary under any system of operations. The assion recommends that if the Trust Territory airline is operated mercially by a private organization, that the services of the Civil annautics Board (CAB) be utilized both in writing the original contract if for regulatory purposes. The CAB would determine the size of the ibidy and the form it should take. If after a certain period of operaion, it was determined that the airline profits were excessive, the CAB ald have the power to establish lower rates, reduce the subsidy or both. Dese recommendations naturally assume that only one airline would be mitted to operate in the Trust Territory. A possible alternative Pan American contract negotiated with the aid of CAB is the operaof the Trust Territory airline on a cost basis by the Federal . Mation Agency. The FAA does operate certain air routes now and there to be the possibility of an arrangement. The Mission recommends Ploratory consultation talks in Washington with CAB and FAA.

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Cost of the Recommended Schedule

The present schedule provides three DC-4 flights per week from Guam to Saipan, whereas the recommended schedule provides five. The present schedule provides one SA-16 flight per week from Guam to Koror, whereas the recommended schedule provides two. The present schedule provides one SA-16 flight per week from Guam to Majuro, whereas the recommended schedule provides one DC-4 flight from Guam to Majuro plus one SA-16 flight per week from Ponape to Truk and Ponape to Kwajalein. For FY 1964 the budgeted gross cost of airline operation is \$695,000. Figured over a twelve month period, the estimated cost of the recommended schedule is approximately \$1,080,000. This figure was calculated using the cost and penalty figures in the existing contract with Fan American. As mentioned before, the contract with Pan American should be renegotiated to provide a lower annual cost. Although the cost of operation of the recommended schedule is about 50% greater than the FY 1964 budgeted gross cost, the carrying capacity of the airline would be greatly increased because of the more extensive use of the DC-4 in place of the SA-16. The operation can be carried out using the existing three aircraft but they would fly more hours. The increased service should result in tangible economic benefits and intangible political benefits to the Trust Territory.

II-B-2

Long Term Recommendations

a. When the airfield at Babelthuap is completed, it is recommended that one SA-16 be phased out and that a DC-4 be acquired to replace it.

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II-B-2

This would provide DC-4 transportation for the Guam to Palau run.

b. When the airfield at Ponape is completed, the DC-4 on the Guam to Majuro run would stop at Ponape thus deleting the need for the remaining SA-16 to make shuttle runs between Ponape and Truk and Ponape and Kwajalein. However, if the need for air transportation to Kusaie becomes a reality, the SA-16 would have to be retained because of the need for a water landing at Kusaie since there are no airfields on the island. For the purpose of this report however, the Mission recommends that the SA-16 to be based on Ponape be phased out when the airfield is completed.

Costs of the Long-Term Recommendations

a. Capital Cost

(1) Purchase one DC-4

\$200,000 (HICOM est.)

b. Gross operating cost per year assuming continued Trust Territory operation of airline under the excessively high estimates of present contract prices.

(1) When Babelthuap airfield is completed and SA-16 service
 to Palau is replaced by DC-4 service.
 \$1,150,000

(2) When Ponape airfield is completed and all SA-16's are
 phased out.
 \$ 928,212

-63-

b attempt has been made to estimate the revenues which would be received if the short term and long term recommendations were implemented. It is pointed out, however, that the FY 1963 revenues were about \$180,000 and that the anticipated revenues for FY 1964 are calculated by the Trust Territory Government in the neighborhood of \$200,000 under the present operating schedule. The revenues under the recommended schedules would certainly increase due to the greater carrying capacity of the airline and substantial savings can be made through the new contract arrangement but the air service subsidy that will be needed may still exceed that of the surface transportation subsidy.

II-B-2

Mercy Flights

Revenues

Mero-medical evacuations and mercy flights are done by the Navy SAR wits based in Kwajalein and Guam and by Coast Guard logistics aircraft which service the loran stations in the Yap and Palau Districts. The service has been excellent and is much appreciated by the people of the Trust Territory. The Mission recommends that these services be continued, for humanitarian reasons. District Stations

angedther buildings and emain

Small radio stations were established in each Trust Territory District Center by the Navy in 1946. These centers were: Majuro, Marshall Islands; Saipan, Mariana Islands; Ponape, Truk, Yap and Palau, Caroline Islands. Equipment used was wartime, manual operated, Bureau of Ships type. All equipment - transmitting, receiving and including radio beacons - was housed under one roof. These stations were intended to handle a light internal traffice load and to provide an intermittent beacon service.

District radio scatton improveme Chapter 3 char evection of sould cone

COMMUNICATIONS

II-B-3

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The radio stations were transferred to Interior in 1951. The facilities Were entirely adequate at the time. Slowly additional equipment has been acquired to meet changing and increasing requirements. Much of this equipment has been procured from excess sources and is now well Worn and difficult to maintain. Some replacement is required.

The addition of equipment has resulted in overcrowded radio stations. Most transmitters should be removed for relocation to separate buildings. This relocation would improve operating efficiency by removing the interference caused by operating of transmitters in close proximity to receivers, and would permit erection of improved receiving antennas through removal of the transmitting antennas.

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District radio station improvements, including erection of small cement block transmitter buildings and equipment replacement can be met with modest expenditures.

ent for Finesh Year 1963 das 3251,000

Relay and Control Station

By 1959, message traffic from District Stations had increased to the point where the single manual radiotelegraph circuit into the Navy Communications Station, Guam, was over-loaded. This increase largely resulted from an expanded Weather Bureau observational program. In an effort to relieve this congestion of traffic, a Central Relay and Control Station was established at Truk. This was accomplished by removing all transmitting equipment from the radio station for relocation to a separate building near the airport. Additional and higher powered transmitting equipment was secured from excess sources and installed. The radio station was converted to a "receive only" station and additional receiving and teletype equipment was received from excess sources and installed. The removing of transmitters and some additional equipment enabled a Truk-Guam radioteletype circuit to be established. Other Trust Territory stations then forwarded traffic to Truk over separate manual radiotelegraph circuits for onward relay to Guam via radioteletype. This Steatly expedited movement of traffic.

Plans are underway to move the Control and Relay Station from Truk to Saipan. This will serve to bring the Headquarters function under more direct supervision; greatly expedite the flow of District message traffic

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to the High Commissioner's Office; and eliminate, by virtue of the short distance, delays in Guam traffic due to poor signal conditions.

Expenditures

The communication allotment for Fiscal Year 1963 was \$251,000; the proposed communication allotment for Fiscal Year 1964 is \$375,000. This compares with an average allocation of \$127,000 for the previous eight years. In order to improve and maintain the District radio stations in a satisfactory manner a \$1.2 million dollar capital budget is proposed for the next four years as follows:

District Stations New Equipment & Supplies \$200,000/yr - \$800,000.00 Broadcast Stations (Including Buildings) \$160,000.00

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Marshalls	\$ 14,900
Truk	32,800
Palau	21,800
Yap	25,500
Ponape	18,500
Marianas	46,000
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\$160,000

Out Islands Stations 57, plus Spares

\$140,000.00

Marshalls Ponape Yap Marianas Truk Palau	20 Units 6 Units 6 Units 3 Units 10 Units 5 Units	@ \$1,800.00	\$ 36,000 10,800 10,800 5,400 18,000 .9,000	
Spares	annig 20	Ser Ater	\$ 20,000	
57 Generators Spares	@ \$400		\$ 22,800 7,200 30,000	

Moving the Control and Relay Station from Truk to Saipan \$100,000.00 TOTAL \$1,200,000.00

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II-B-3

If, however, we are to meet U.S. Weather Bureau demands for "within minutes" relay of weather traffic, greatly increased equipment expenditures will be required. The Weather Bureau persists in comparing Trust Territory traffic handling times against Federal Aviation Agency multimillion dollar semi-automatic systems. The present system adequately meets Trust Territory Government requirements and cannot be compared with a system established to handle great volumes of time-critical traffic.

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Weather Bureau traffic presently accounts for 40% of all the Trust Territory message traffic. The Trust Territory Government is reimbursed to the extent of \$25,000 per year for this service. This sum does not meet increased expenses and is to be reconsidered in the near future. However, short of a very substantial initial sum, equipment to meet Weather Bureau requests cannot be provided under the above budget.

Maximum Program

To provide this "within minutes" relay of weather traffic, additional equipment and buildings would be required in the magnitude of \$1.5 million. This would bring the Communication budget to a total of \$2.7 million through 1968.

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2. Acudenia and Decaries Chapter 4 -----Farm Institute AGRICULTURE

Field and Functions of the Agricultural Program in the Trust Territory

II-B-4

Program

The present agricultural program of the Trust Territory Government is based on two broad lines of development:

1. Subsistence Agriculture, involving certain basic crops, livestock, poultry and soil improvement and conservation. Present basic crops in the area are coconuts, breadfruit, pandanus, taro, yams, sweet potatoes, bananas, citrus, and tapioca.

bier the month of a sector and that 2. Cash crops, involving the improvement of the local economy by developing cash crops for export to other districts and outside the Trust Territory. This includes work on coconuts, cacao, black pepper, maie, coffee, forest products, and fisheries. Only cacao is in an advanced state of commercial development, with ramie and pepper still in the initial stages.

mere are also special projects of particular interest and importance:

1. Entomology Program:

This involves territory-wide insect and disease control -- control of plant pests prevalent in the area and a Quarantine Service whose function 15 to control and regulate the movement of plants and animals.

2. Academic and Practical Training Program:

a. Farm Institute:

This is a large government plantation operated to give the agricultural agents and students academic training and practical field experience, with the strong emphasis on the practical side.

II-B-4

b. Agricultural Scholarships:

These are designed to select people for advanced agricultural training in the Philippines and Hawaii either for a degree or for specialized training, such as forestry, animal husbandry, crops, etc.

Staffing Structure:

Under the present administrative structure of the Trust Territory, the Director of Agriculture serves in a staff position on the High Commissioner level. He has no direct authority over the district agriculturists nor their programs. Instead, the district agriculturists are responsible to the district administrators. Each agriculturist determines his own program for agricultural development.

All the American staff are graduate agriculturists holding B. S. degrees. In Yap, Truk, Ponape, and the Marianas, the district agriculturist is called the "Island Development Officer". This work consumes 75% or more of the agriculturist's day, keeping him out of the actual agricultural field, for as development officer, he is expected to organize and manage cooperatives, credit unions, develop small businesses, etc.

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The 164 Micronesians at the district level serve a variety of functions, i.e., agricultural extension agents, assistant agricultural extension agents, junior agricultural extension agents, foresters, horticulturists, mimal husbandmen, agricultural trainees, maintenance men, farm foremen, and farm laborers. The educational level and technical competence of these agriculturists leave much to be desired. Two have B. S. degrees; me has two years' special study in the Philippines and Hawaii; two have one year's study in the forestry school in Fiji. Presently, there are ten applicants studying for a degree at the University of the Philippines in community development, general agriculture, poultry msbandry, animal husbandry, entomology, and forestry. From performance records to date, approximately five will complete their degrees.

The Education Department of the Trust Territory has three students studying for degrees in food technology. These people, upon their return, will apparently be used in the vocational agriculture programs in the local high schools.

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MARSHALLS DISTRICT:

Staff:

A new American District Agricultural Officer arrived for the Marshalls District during the Mission's survey; the Micronesian Assistant District Agricultural Officer was acting chief during the visit. Two Americans and 23 Micronesians are presently available to operate the District Agricultural Department. Fifteen of the Micronesians are Agricultural Extension Agents and eight are Agricultural Station employees. Eight of the Agricultural Extension Agents are stationed in the outer islands; the remainder work in the district center at Majuro.

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Budget:

The budget for FY '63 was \$39,000. Of this, 2/3 went for salaries; the remaining 1/3 went for construction materials, POL, travel, seeds, feeds, and fertilizer.

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A request of \$52,000 has been submitted for FY '64 and \$96,000 for FY '65; the breakdown of the budget remains basically the same.

Facilities:

The present facilities consist of an Agricultural Station containing approximately two acres of land on which are located one office-warehouse combination, one tool room, one lath house for plant propagation, one set of hog pens, one poultry house, one small coconut seed bed.

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The District is in the process of moving the District Agricultural Station to Ejit Island and rehabilitating the existing station. The present facility and location is entirely unsatisfactory. Being located in the center of town, it presents a poor picture of the Agricultural Department and its activities.

II-B-4

Subsistence Crops:

The Agricultural Staff concentrates the major part of their efforts in advising the local people on coconut rehabilitation of debilitated and typhoon-damaged islands. A small percentage of time is spent on development of subsistence crops such as breadfruit, pandanus, taro, bananas, vegetables, fishing, poultry and swine production.

Cash Crops:

Wphoon production.

Work in this field of development is almost non-existent in the Marshalls District except for the coconut rehabilitation of several atolls. The rehabilitation of the coconut groves on Jaluit and Namorik demonstrates the work that can be accomplished when properly supported with budget and personnel. From 1960 to the present 2,484 acres on these atolls have been replanted with selected seed-nuts. Pre-typhoon copra production on Jaluit, for example, was 1,293,076 lbs. After the concerted effort of the Trust Territory Government and District Agriculturist, copra production for FY '63 on Jaluit was reported at 221,593.5 lbs. As the new trees come into bearing over the next four years the tonnage of copra will rise and is expected to increase by 50% over pre-

-73-

The Marshalls District is presently producing approximately 40% of the Trust Territory copra. The FY '63 level of 9,951,938.5 lbs. of copra represented a decrease from the FY '62 level of 10,591,051.5 lbs.

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It is estimated by the District Agriculturist that with the existing number of trees in the Marshalls and with improved transportation that copra production could be increased by 40% to 50%. It is proposed that with more frequent and pre-announced arrivals of field trip ships, Work would increase by 30% and spoilage would be cut by 20%.

To further support this estimate of the need for more frequent field trips to increase copra production, the District Administrator reports that in 1961 there were only 43 field trips. These ships purchased 2,710,248 lbs. of copra. In 1962 they had 77 field trips purchasing 4,850,310 lbs. These were purchases by the field trip ships only and do not account for the total copra production which was brought in by other means.

Further, on Majuro atoll a road was recently completed linking the atoll by means of trucks. Since the completion of this road copra Production on Majuro atoll has increased by $\frac{1}{2}$ million lbs. or 30%. For further details on the Mission's recommendations on meeting this problem and the cost involved, see the Transportation section of this report.)

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Another of the major problems affecting copra production is the fact that present Marshallese coconut groves are composed of trees of varying age, generally unplanted (volunteer growth), uncultivated, irregularly spaced and crowded to such an extent that the yields per acre are seriously reduced. It has been demonstrated that copra production could increase by $\frac{1}{2}$ ton per acre if these faults were corrected. To convince the people that 55 trees per acre will produce more than 150 trees per acre, and additionally to prove the positive action that would result from clearing competing brush, using fertilizers, etc., is a job for the Agricultural Agent, and an important one.

II-B-4

Additionally, rats are causing considerable damage, not only in the Marshalls but in other Districts as well. Since the actual population of the rats is unknown, it is difficult to estimate the dollar loss from their activity. Animal control biologists have estimated that each rat will cause \$10 damage per year; observations of the destruction caused by rats tends to verify this figure.

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RECOMMENDATIONS:

1. The coconut is the principal economic plant of the area and almost the sole source of income for the people. The coconut, besides being the main commercial crop of the area, also provides for the People food and ingredients for cooking. It provides a source of feed for swine and poultry. The sap drained from the flowers is used as a

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milk substitute for babies. Green nuts supply the best drinking liquids of the atolls. The leaves make baskets, hats, mats, sides for houses, and sometimes thatch for roofs. The husks and shells are used as fuel. Rope and twine are also made from the husks, and the trunks are used in construction. Because of the geography, soil, and climate, the Marshallese economy is and will be based in the future on plants, and the coconut tree will continue to be the principal one.

Because of the importance of the coconut palm to the District, the recommendation is made to establish a coconut grant or subsidy of \$100,000 spread over a period of four years, alloting \$25,000per year. This will emable the Agricultural Extension Service, through a cash payment of \$.25 per tree to plant a maximum of 100,000 seed nuts. For the farmers to qualify, they must plant a minimum of 50 trees under the supervision of the Agricultural Extension Service using the principles laid down by Mr. Pieris, the Ceylonese coconut specialist previously contracted by the Trust Territory Government to formulate a plan for coconut rehabilitation. Mr. Pieris spent three years in the Territory formulating said plan.

To further increase the supply of copra, the subsidy should also extend to the planting of dwarf varieties of coconuts for home consumption. This plan would save annually more than 30 million coconuts, which is equivalent to approximately 7,500 tons of copra.

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With an input of \$100,000 from the subsidy over the next four years the farmers at this point should understand and appreciate the fact that 55 to 60 trees per acre can produce more coconuts per acre than 150 trees per acre, and that better husbandry pays off. If the program is successful, this would mean 400,000 new trees planted scientifically that would increase the dollar income of the farmers in the District by over one million dollars when the trees come into bearing.

II-B-4

2. To further increase the dollar yield per acre it is recommended that the District Agricultural Office extend through the Agricultural Agents castor bean seeds for interplanting among the coconuts. This practice will promote more efficient use of the land and can work well with the coconut plantings. To start this program it is recommended that the Agricultural Agent give the seeds to the farmer and teach him how to handle and harvest the crop. The Department of Agriculture should guarantee a market for the seeds. According to present market prices of \$.05 a lb. and expected yields of 800 lbs. per acre, this could add \$40 per acre per year to the farmer's income.

3. Vegetables are presently grown with considerable difficulty In the District due to high winds and salt sprays that sweep the islands. The need for vegetables, particularly in view of the high starch diet, Cannot be argued. In order to promote the growing of vegetables for family use it is recommended that the Agricultural Department establish ^a program for the planting of trees that will afford protection from

-77-

the winds and spray. The following trees are selected with the consideration of the needs of the area for fire wood and construction material, besides affording the needed protection for the cultivation of vegetables: Cupressus Macrocapa, Pinus thunberjii, Eucalyptus gomphoelho, Leptospermum laevigatum and Casuarina eguisetifolia. These breaks will aid not only vegetables but other crops such as fruits that have a low salt tolerance. Funds would come from the proposed Forestry program of the agricultural budget.

4. Citrus, particularly limes, grow extensively on the Marshall Islands. Observation of these trees reveals that they are quite heavily infected with Xanthomonas citri. With this disease the fruit-will never be allowed into the export market. Species and varieties of citrus should be introduced and treated to cleanse them of the viable citrus manker. A small grove for demonstration purposes and bud wood should be established at the Ejit station.

5. Success of any agricultural program is dependent upon the competence of the District Agricultural Extension Service and the proper placement of these agents throughout the District to carry the program and to give the leadership necessary to affect agricultural improvement in the District.

It is recommended that a minimum of five agents be sent annually to the Farm Institute in Ponape for a year's study with strong emphasis on Practical training.

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It is further recommended that exceptional agents or students be offered scholarships for study abroad.

To insure the continuity of the District Agricultural Service objectives, it is recommended that an annual conference of the agents be held at the main agricultural station.

The need for incentives must be firmly established in the Service. Exact staff positions should be clarified. Grade or pay raises for scholastic training or "job-well-done" must be an integral part of this program.

The use of young people will present a problem because of the Micronesian deference accorded age and experience. Therefore, the young agent will be effective only if given the technical competence and professional stature needed in the community.

6. Agricultural facilities will be an integral part of the program for providing training of the Agricultural Agents in specific crops, training and demonstration to the farmers, and providing sufficient quantities of planting stocks and animals for effective work in the District.

To help compensate for the distance between atolls and to insure an effective program of agricultural development, it is recommended that the District establish two sub-stations, one in Woji and one in Jaluit,

-790

II-B-4

with the main agricultural station at Majuro. This would also be in accordance with the Mission's over-all recommendations for building up these two islands as sub-centers in the District.

TT-B-4

It is recommended that the agricultural station on Ejit in the Majuro atoll be completed and put to use with dispatch. The present facility is entirely inadequate, considering the seed beds necessary for 100,000 seed nuts per year.

These stations should be so designed that the farmers can imitate the procedures and methods used. In addition to propagating planting materials for distribution they should be heavily used for the training of the Agricultural Agents. The agents should be expected to purform the major portion of the labor involved. Additionally, short courses should be set up for the local farmers, and at least one field day a year held at the stations to discuss with the people the objectives of the work and the resulting benefits. Care should be taken to refrain from pure research; the stations' use is for propagation, teaching, and demonstration of known techniques for the area, such as soil conservation, composting, planting methods and caring of commodities.

The sub-stations should be small units and serve merely as a base of operations and for propagation of seed stocks. The main effort of these stations should be for the rejuvenation and rehabilitation of the coconut groves.

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For maximum effectiveness it would be desirable to have three American agriculturists on the staff. This would give one American for each station and sub-station to give guidance to the program.

II-B-4

The Micronesian staff should be increased by eight for the Agricultural Extension Service. No increase is indicated for the farm hands.

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MARIANAS DISTRICT

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The existing agricultural staff consists of two Americans (one Island keeping is untraction merical Development Officer and one Agriculturist) and a fairly complete staff

of 37 Micronesians.

Budget:

The budget for operations for FY '63 amounted to \$124,130; the budget request for FY '64 operations amounts to \$113,500. The dollar decrease results from the transfer of personnel from the agricultural staff.

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Cash Crops:

The main emphasis on agricultural development in the Marianas District for the past decade has been on truck crop farming and beef cattle production. This work was begun by the Navy. One year ago the Trust Territory assumed the administration of these islands and has attempted to continue the work.

Vegetable exports to Guam, a major market, amounted to \$11,000 in FY '62. The meat produced was sold locally. In FY '62 beef production amounted to 182,248 lbs., and fresh pork production, 24,900 lbs.

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The vegetable program-is quite disorganized -- the growing, harvesting, handling, grading, packing, shipping, and marketing, inclusive. Farmers are presently unaware of market demands and the need for variety. For example, if one farmer realizes an admirable profit from watermelons one

-82-

year, everyone the following year follows suit; consequently, the market is glutted with watermelons and the price naturally does down. To correct this situation an effective system for production and marketing is urgently needed.

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Plans call for the building of an animal industry station to cover poultry, hogs and cattle which would serve as a central supply of stock to all the Trust Territory districts.

Copra was formerly the largest source of agricultural income for the District until the Brontispa beetle invaded the area; because of this infestation copra was then displaced by cattle and truck crops as the foremost money-maker. The 1962 copra production level was down considerably; only 141,915.5 lbs. were marketed. FY '63 saw an increase to 272,234 lbs. due to the scolia wasp being introduced to parasitize the beetle grubs. Mariana District is presently producing only 2.16% of the Trust Territory copra. Most of the copra is produced in the morthern islands, an area which has little agricultural potential for anything else.

RECOMMENDATIONS:

1. The establishment of a cattle ranch under auspices of the Development Fund on Tinian. (See Agricultural Business Ventures for details.)

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2. The establishment of a truck crop farm under auspices of the Development Fund on Rota. (See Agricultural Business Ventures for details.)

II-B-4

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3. The Agriculture Department should develop a poultry and livestock feed program.

4. The Agriculture Department should establish a forestry and conservation program.

5. The Agricultural Extension Service should direct efforts to coffee production in the District and to increased copra production in the small northern islands.

6. If the Development Fund's feasibility study of papain production should be favorable, papaya cultivation should be stimulated.

7. The development of a dairy herd program on Saipan is recom-

8. It is recommended that the experimentation with so many breeds of stock cease. From the climatic conditions of the area, cattle should have a preponderance of Brahman blood. Berkshire and Yorkshire hogs are well established and producing excellent results in the Philippines and other neighboring islands. Plymouth Rock and Rhode Island Red hens Would be quite adequate for the area, producing sufficient quantities of eggs and meat.

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9. Efforts should be directed toward producing needed foods and decreasing large imports of such commodities as rice, coffee, and sugar. With proper staffing and budgeting the Marianas have the best potential for progress with the least amount of investigative work.

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10. No increase in the Micronesian staff is indicated. A program for improving technical competence should be followed as described in previous districts.

11. For maximum efficiency of the District Agricultural Department, a total of four American agriculturists is recommended, and as previously described for other districts, the District Agricultural Officer should be relieved of the dutics of Island Development Officer.

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PONAPE DISTRICT

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There is one American on the agricultural staff, the Island Development Officer, who also serves as the District Agricultural Officer; and the station.

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Extension Agents, and eleven station hands.

Budget:

The operational budget for FY '63 for the Ponape Agricultural Department was \$42,000. An additional \$28,000 was allocated from the Headquarters' special budget for the cacao development project.

The FY-'64 budget requests for operational expenses amounted to \$54,000. Special allocations from Headquarters for FY '64 amount to \$52,000 for developmental work in the District: \$26,000 for cacao development; \$10,000 for pepper development; and \$16,000 for a pilot rice development project.

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Pacilities:

In this District are found two agricultural stations. The main station is on the island of Ponape in Kolonia, and the sub-station is in Kusaie. The main station consists of approximately 23 acres of land. This is ^a former Japanese Tropical Research Station and most of the buildings here were constructed by the Japanese. The main building has been declared unsafe by the Public Works Officer; funds have been requested, but to date no action has been taken and the building is still being ^{Occupied} by the Agricultural Department and several other offices of

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the District government. Tool sheds, a garage for mechanical equipment, swine and poultry houses, resident housing for the Agricultural Officer, and a lath house for propagation are the main structures on the station. In the port area the Agricultural Department was given a building for the construction of a cacao fermentary. This is in operation, but will be inadequate for the increasing production of cacao.

II-B-4

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The Kusaie station is a small facility; its use is for the propagation of planting materials for distribution to local farmers. It includes resident housing for the agent, a small fermentary, and seed beds for citrus, cacao, coconuts, and vegetable crops. This station is well located and quite adequate for the area.

the Extension Service 15

Copra:

Copra production is the principal export and commercial activity of the area. Ponape District presently produces 25.6% of the Trust Territory's copra. Production figures for FY '63 totalled 6,582,496.5 lbs. This was down 17,698.5 lbs. from FY '62's production. The age of the trees appears to be the principal cause for the decline, the 4,377,000 trees in the District averaging 35 years of age. There are 23,512 acres planted to coconuts in the District. It is reported that of the total land available, only 1/3, or 37,000 acres, is suitable for coconut production.

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The major work of the Extension Service is the rejuvenation and rehabilitation of the existing groves. To encourage the farmers toward this goal the government has established a subsidy for planting and caring for trees in a prescribed manner, as laid down by Mr. Pieris, the coconut specialist from Ceylon. Increased yields of $\frac{1}{2}$ ton per acre, or nearly 100%, have been experienced when the procedures are followed.

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In FY '62 a subsidy of \$14,000 was allocated from the Trust Territory's Government to support the program. 90,000 trees were planted as a result of that subsidy in 1962. All told, under the subsidy a total of 190,000 trees have been planted. With a continued subsidy and the diligent working of the Extension Service it is reasonable to expect a moticeable increase in copra production for the District.

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Cacao:

In 1958 cacao was introduced on the island of Ponape. There are Presently 294,635 trees. Approximately 575 farmers have cacao with an average acre planting of 512 trees. To encourage farmers to plant tacao, a subsidy was established by the Trust Territory and has continued each year. During the harvest season the Agricultural Department Provides a boat for the collection of beans and pods. They purchase Wet beans from the farmers for \$.06 per pound and/or six pods at \$.05. Parmers who sell at the fermentary receive \$.07 per pound for wet beans and \$.01 for pods. Present yields are averaging 600 lbs. per acre or

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1.2 lbs. per tree annually. (This is rather low; after a few years' experience, it should approach 5 lbs. per tree.) In FY '63 the Agricultural Department initiated a grading system for the purchasing of beans, paying \$.07 for \$1; \$.06 for \$2; and \$.05 for #3. Marked improvement in the quality of beans sold to the fermentary was reported.

The following presents a resume of the typical cost of production for one acre of cacao. Labor is the only investment the farmer need make given the subsidy:

Labor

Capital Investment

II-E-4

Breaking, clearing and planting; 4 men, 12 days G \$1.90/da/man \$	72.	lools	 \$10.
Marsery, potting, etc.	18.	Seeds	 1.
2 men, 6 days @ \$1.50/da/man	10.		1

every 2 mo; 30 ma \$1.50/da for 4 yr	in da/yr @			
man days		-140.		
eno	TOTAL	\$ 230-	TOTAL	\$11.

With an average of 300 trees per acre yielding 30 pods per tree, in the first yield, 15 pods equaling one pound dried, the yield will be 600 . Ibs. of dried beans per acre.

It is necessary in the growing of cacao to provide shade to afford Protection from the drying winds. For this purpose cacao plantings in the Trust Territory are recommended as interplantings with coconuts.

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Actually, the major portion of the labor costs is work that normally should be performed on the coconuts alone. With the combination of two crops the farmer is working more efficiently and in the first years will be realizing nearly \$150/acre profit vs. \$90/acre from coconuts alone. As the cacao matures, and proper husbandry is practiced the yields per acre will rise. The price of cacao will probably stay high enough to justify the use of imported fertilizer. With care the trees should produce without any appreciable decline for 40 years.

II-B-4

Forestry:

Test plantings of mahogany and aurucaria have been initiated at the Agricultural Station. Every effort should be made to step-up the forestry work throughout the District using not only introduced species, but many of the indigenous species. Strict rules should be established to control cuttings and provide for replanting.

Pepper:

Over the past several years an effort has been made to establish Pepper as an economic crop for the Trust Territory. Initially lack of funds and first-hand knowledge of the crop produced poor results. With an increased knowledge, diligent work, and a considerable outlay of cash and labor, it now is possible to grow peppers successfully in Ponape. From a 1/3 acre test plot at the Agricultural Station, the first harvest yielded 1,158 lbs. of processed pepper valued at \$604.80. Expenses, according to records, were \$110 for fertilizer

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and labor, and \$138 for picking and processing, leaving a balance of \$366. Figures were based at \$.50 per pound. This first crop was sold to a gourmet market, accounting for the high price. Pepper on the New York market sells for \$.28 to \$.30 per pound for black and \$.30 to \$.35 per pound for white.

TT-B-4

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With a revolving government subsidy to get the project started, the Agricultural Department is encouraging the farmers to plant 100 stands of pepper. An assistance loan of \$200 (to provide fertilizer, posts, bags, and plants) is given, this to be repaid over a four-year period.

The present intention is to capture a gourmet market with the yield produced. The United States' demand is currently running 25 million pounds per annum. The Director of Agriculture estimates there are 500 acres of land suitable for pepper culture in Ponape. This would be 250,000 plants, total, and expected yields would be in the 1000-ton size.

This is to be a supplemental crop, and one of small scale. The latter should be an advantage because of the ease in controlling the quality. With a small yield, quality will be all-important for sales. Ability to get a premium price for extra-quality pepper seems indispensable to the successful development of pepper cultivation in the Trust Territory.

Although additional work is being done with citrus, bananas, vegetables, Cattle, swine, and poultry, the aforementioned crops are the outstanding

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possibilities for the area. Papaya, sweet potatoes, taro (upland), and rice development also present a future potential, as does hibicus fibers. World Wide Trading Company of Japan has already expressed interest in this last product, and a test shipment to Japan will be made in August.

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RECOMMENDATIONS:

1. The coconut tree planting subsidy should be continued until the estimated limit of 37,000 acres that are appropriate for coconut trees is reached.

2. The planting subsidy for cacao should be discontinued at the end of FY '64. More intensive work by the District Agricultural Extension Service needs to be instituted to insure proper management of the trees and training for the farmers. Laxity in this matter will probably result in disaster for the project considering the present unskilled level of the farmers.

3. A livestock and poultry feed program should be developed with the introduction of grasses and legumes, making the fullest use of those already present. Legumes will be an excellent addition to the COCONUT-cacao plantings, adding considerable green manure to the soil.

4. The program for black pepper should be expanded modestly; from the results to date it is deemed advisable to try the crop with local farmers. This project should proceed slowly with selected farmers;

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these farmers initially should not plant more than 100 standards. Loans should be provided to initiate the crop and carry it to harvest; repayments should begin with the harvesting of the crop, the rates being set by the District Agricultural Officer.

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5. A forestry and conservation program should be established with dispatch under an American forester to be shared with the Truk District.

6. The feasibility of establishing a banana market and increasing banana production should be further investigated by a U.S. firm as previously recommended for the Palau District.

7. The Trust Territory Government should be asked to do a feasibility study of rice cultivation in the Ponape district, but bearing in mind the special problems of using Micronesian labor. This should specify what machinery would be used.

8. As in the other districts, the shortage of both technically qualified American and Micronesian agricultural staff employees is hampering the movement of the work. Recommendations made for the personnel in preceding districts also apply to the Ponape District.

The minimum American staff calls for a District Agriculturist aside from the forester previously mentioned.

9. Because of the condition of the building at the main station, it will be necessary to construct a new facility. The plans should bear in wind the need for teaching and demonstration facilities for agents and

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farmers alike. Considering the fertilizer needs of the area, it would be advisable to have a small soils testing laboratory included.

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YAP DISTRICT

Staff:

The agricultural staff for the Yap District consists of one American who is titled "Island Development Officer" and who has duties additional to those involved with agriculture; and 19 Micronesians, six of whom are Agricultural Extension Agents and the rest laborers. The entire staff is located on Yap proper. Staffing requests for FY '64 call for two Micronesian extension agents to attend the Farm Institute and one Micronesian to take a specialized course in fishing.

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Budget:

The agricultural budget for FY '63 was \$28,000 for operating-costs and allocated as follows: American salaries, \$8,300; Micronesian salaries, \$16,500; and supplies, \$3,500. Additionally, \$2,500 was allocated from Trust Territory Headquarters for the Ulithi typhoon rehabilitation, and \$30,000 capital costs was assigned for Agricultural Station construction, of which only \$16,000 was used; the remainder reverted to Headquarters.

Requests for budget in FY '64 amount to \$38,000, all for operations.

Facilities:

The facilities at Gaanelay (outside of Colonia) consist of $6\frac{1}{2}$ acres of which approximately $2\frac{1}{2}$ acres are in use. The remaining 4 acres are expected to be completed by the end of FY '64, this being dependent Won funds and ordered equipment. Construction of this station has

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mbeen going on since 1959. The major energy of the Agricultural Departments has been going into this facility leaving little time for more productive work. Two buildings have been constructed on the site, consisting of an office and warehouse respectively.

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Cash Crops:

The principal cash crop of the Yap District is copra. In FY '63 the District sold 947,587 lbs. to the United States and 155,386 lbs. to Japan, for a total of 1,102,973 lbs. with a value of \$49,690.73. This is double FY '62's copra production for the area. Rehabilitated groves on the outer islands accounted for the increase. The Yap nuts are exceptionally good, and annually many are sold for seeds to the other Districts. For FY '63, these sales amounted to \$3,000 revenue for the Yap District.

Cacao is being extended in the Yap District as a cash crop. To date, 20,000 trees have been planted. It will be two years before production starts, however. The Agricultural Department, to keep abreast, has purchased cacao processing equipment amounting to \$7,500.

The Yap Trading Company is presently buying Trochus shell for \$.05/lb., on a 20,000 lb. order to Japan. If quality proves good enough, the Trochus gatherers may receive an additional bonus payment from the Japanese purchasers and the Yap Trading Company. The Trochus was formerly a valuable commodity. With the advent of the plastics industry, there is very little demand for Trochus now.

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The Agricultural Department has fostered a "Farmers' Market" in Yaptown for the sale of locally produced vegetables, fruits, handicraft, etc. The Yap Congress pays the wages for 16 agents who, among other duties, operate the market. This is not a large operation, but it is a beginning to meet the needs of the residents of Colonia, the Yap District Center.

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RECOMMENDATIONS:

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1. From conversations with some of the older inhabitants in the area, it seems that the forests of Yap proper were formerly quite extensive and productive. Due to indiscriminate cutting and the lack of any plan for replanting, the forest lands have reverted to a rather scrubby condition. A reforestation program is definitely recommended for the area. Because of the extent of this program, a forester to be shared with the Palau District is recommended to guide the development of this program and the training of the Yapese in the care and use of the forest lands.

2. Due to problems of land ownership, many outsiders living in Yap amnot own land and are therefore dependent upon the local market for fuits, vegetables, fish and meats. Presently the supply of these commodlies to the markets is rather sporadic. To alleviate this situation, it is recommended that the Agricultural Department establish and operate bruck farm. It is anticipated that this farm, within a period of five mars, could convert to a vegetable producers' cooperative. In setting the farm the work procedures should be of a nature that could be maily imitated by the local farmers and that would create little operatbe difficulty for the Yapese after the conversion.

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This farm should also be used extensively for training Agricultural Agents and providing short courses for the local farmers. The agents wuld extend this information and practice to the outer islands.

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These outer islands would also need the wind breaks as recommended for the Marshalls District.

3. The Japanese intensively farmed many acres on Yap proper. Through their methods the soil was depleted of what little fertility it possessed and now lies in waste. It is recommended that the Agricultural Department commence a program for rebuilding these soils.

Resently this land is composed of rough grasses and scrub pandanus. By seeding these soils with soil building plants it is felt that they can be brought back into productive use over a period of years, with a ptential for cattle production. This soil building program should be part of a District program for the development of livestock feeds.

4. To increase the meat supply of the District it is recommended that the Agricultural Department import pure-bred swine for the upgrading of local stock. This program could be operated similarly to 4-H Chub "pig-chains" in this country whereby a pure-bred hog is given to the farmer by the Agricultural Department; upon farrowing, one of the Pigs is then selected by the Agricultural Department for further distrihtion or sale, as the merit of the pig dictates.

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5. The main Agricultural Station at Gaanelay on Yap proper should be completed as quickly as possible and brought into use as a teaching, propagation, and demonstration farm for the Agricultural Agents and farmers alike. This station should operate as that described for the Marshalls District.

6. The establishment of a sub-station on Ulithi atoll is additionally recommended in order that the Agricultural Department might commence a more effective program of agricultural extension in the area. Agricultural development in the Yap District, as was described for the Marshalls, is dependent on a strong, competent Agricultural Extension Service, and the same general recommendations with reference to the station's operations, objectives, and program apply to the Yap District.

7. It is recommended that the Yap Extension staff be increased by five. These five agents should be sent to the Farm Institute in Ponape for one year's study and practical training, while the present agents should be shown how to improve their effectiveness with the Yapese farmers by the District Agriculturist.

8. Presently the District Agricultural Officer has the title and responsibilities of "Island Development Officer". It is recommended that he be relieved of these additional duties, i.e., formation of cooperatives, credit unions, creation of small businesses in the islands, etc. The position of Agriculturist is sufficiently demanding that the individual needs to devote his full time and attention to this task. Most

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of these non-agricultural duties could be handled by a Cooperative Specialist in each District, as recommended in the Mission's report.

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9. For maximum impact the American staff of the Agricultural Department should be increased by two, one extension horticulturist and one forester. It is proposed and recommended that the forester have dual responsibility for two districts, Yap and Palau.

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PALAU DISTRICT

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Staff:

One American Agricultural Officer and 35 Palauans comprise the existing agricultural staff. Of the Micronesians, six work on the Agricultural Extension staff, three are agricultural technicians, two are agricultural trainees, and 24 are Agricultural Station hands.

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Budget:

In FY '63, \$35,000 was appropriated for operations. An additional capital investment appropriation of \$14,000 from Headquarters was used for ramie development. Budget requests for FY '64 total \$49,000 for operations plus an additional capital investment of \$23,00 for runic.

The entire budget of \$23,000 for the ramie development project will be spent to purchase production items for ramie growers only. Twenty decorticators will be purchased and sold to farmers on a two to three year repayment basis. Each decorticator costs \$620. CIF Guam. Other materials (fertilizers and insecticides) will be distributed to growers as a subsidy for the initial year only.

Facilities:

The facilities afforded for operations, testing, introduction, teaching, and demonstration consist of two stations. The main station in Koror, at present an estimated seven acres, is being used for cash crop developbent, improvement of existing subsistence crops and fruits with new

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miety introductions, and the testing of new species of plants and trees. Nultry, carabao, and hogs (all of improved breeding) are also raised mi the progeny sold to local farmers for the upgrading of local stocks.

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The second station is located on Babelthaup at Nekken. The total acreage of this unit, a former Japanese plantation, is 1500 acres. Presently, approximately 15 acres are under development. The station is working on cacao, mahogany, coconuts, fruits, ramie, and pastures. Further plans call for the building of a second Farm Institute for the Trust Territory on this site.

For Palau these stations are essential. Every effort is being put forth to develop new crops for the area due to the devastation caused to the commuts by the coconut Rhinoceros Beetle. Despite the lack of sufficiently trained personnel, the work is progressing smoothly, and one new crop (runie) is ready for large scale plantings.

Cash Crops:

Frior to World War II, the Oryctes Rhinoceros L. (Coconut Rhinoceros Meetle) was accidentally introduced from New Guinea. The coconut trees the District were devastated (see Entomology Report). Today in the Mistrict, the reported coconut tree count is 180,000 trees. Over 100,000 Were were planted during the last three years. 70,000 Yap seed nuts Mistrict, and 30,000 seeds from selected Palauan palms.

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In 1962, 1,358,080 lbs. of copra were produced and in 1963, 1,460,518.5 Ibs. This amounts to 102,438.5 lbs. increase. The movement of this rehabilitation is sound and very impressive to the local populace. A good deal of extension work needs to be done yet to keep the areas clean and clear of possible breeding sites for the beetle along with improving the curing methods of copra.

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The of the most promising cash crops being developed to date is ramie [Bohemeria Nivea, L.). This is a fiber plant for which world demand. Is growing. The fiber is used for dress fabrics, millinery and trimmings, thread for fine embroidery and laces, upholstery fabrics, webbing, canvas, The for mountain climbing, belting, milk filters, and shoe thread. It has a tensile strength eight times that of cotton and seven times that if silk, and the tensile strength increases by 60% - 70% when wet. Buyers in Japan are very interested in developing the crop in the Trust Territory and have even suggested giving a 500 ton quota to the Trust Territory. Japan is presently importing 5,000 to 6,000 tons of ramie annually. The spicultural officer heading the project has an eventual goal of 220 acress in ramie. Test cuttings sent by the station to Japan were favorably Patived by the market. If this quality is maintained, \$.24 to \$.25/1b. hould be received.

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Estimated out-of-pocket costs for a farmer to plant one acre of ramie, of which all but \$130 is capital investment:

	Labor Family Fertilizer \$100/ton (need 1300# of 10-5-2)	Plow Carabao Decordicator .	80 700 (will handle 3-5
Insecticides	30 (BCH-Mal.)		acres)

TOTAL, Operations - \$130.

TOTAL, Cap. Invest. - \$800.

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Five cuttings in the first year, with an average yield of 800 lbs. per cutting and sold at \$.25/lb., would yield the farmer \$1,000 gross per year per acre. The initial planting is good for three years before a decline in the yield. It is therefore recommended that he replant every fourth year.

From 1952 to 1956, 10,000 cacao trees were planted on Babelthaup at Nekken. Today, approximately 1,000 trees of, this planting are surviving. The site was poorly selected, and this error was compounded by poor management. From the existing trees which now are suffering from Black Pod disease and a lack of adequate care, a total yield of only 1200 lbs. Of dried beans per year is being made. Present plans call for introducing the Jeterango variety. This is a hybrid variety and is disease resistant. The Agricultural Station expects to put out approximately 1500 of these hybrid trees. After observing the soil conditions and the existing trees, however, it is felt that a cacao project for the Palau District Should be eliminated.

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Forestry work at the moment is just beginning. Some work, particularly with mahogany, has been done. Two separate plantings on Babelthuap were observed and appeared very favorable. The District Agriculturist made the plantings on a three foot spacing. The trees in a period of 18 months have grown to approximately 20' in height and measure 3" in diameter. Due to the closeness lateral branching has been retarded. Plans call for cutting every other tree in five years and utilizing this humber for boat planks, furniture, etc. Being free of knots, it will be of exceptional quality. A second cutting is made five years after the first, and cuttings continue at five-year intervals until the 20th year when the trees are then at the desired spacing of 30' intervals. Eather than waiting for the normal growth on a 30' basis, this scheme, therefore, will provide a valuable commodity every five years.

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Forestry can play a very important part in the long range development of Palau. At present one Micronesian with one year's training in Fiji at the Forestry School is on the staff. There are eleven private saw mills in the district, and no control is exercised over cuttings despite the fact that there is a district ordinance on size; there is presently no one to enforce the order. After cutting by the private mills, no replanting is attempted. Reports state that 20,000 board feet per year are cut in Koror for housing; 7,000 board feet for cances and boats, etc. If the existing stands are to be preserved and new plantings made, a forester and staff are definitely needed.

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Test plantings of pepper, rice, castor beans, sugar cane, coffee, taro, rozelle, citrus, rambutan, macadamia, papaya, bananas, pandanus, truck erops, and several fruit trees are being carried on at the station and receive good care. They look healthy and show vigorous growth, and some can be distributed for production. Because of a limited staff, however, this work is moving slowly.

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Carabao have been introduced and are being bred for draft purposes on a small scale. Results are good and the demand is greater than the supply.

RECOMMENDATIONS:

This district, in over-all, has perhaps the best potential for agricultural development. There is sufficient suitable public domain so that the Trust Territory Government could assume the initiative and the initial financial burden of establishing various plantations to be turned over to the local farmers at a later time when the projects are operating successfully.

1. It is recommended that the Trust Territory Government establish and operate a 200 acre ramie plantation. (See Agricultural Business Ventures for details.)

 A long-range forestry and soil conservation program should be initiated immediately. Further expansion of Swietenia microplyla (mahogany) plantings should continue on the 3x3 basis. Introductions of Ptercarpus indicus, Eucaliptus deglupta, Auracaria excelsa, and the

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expansion of local hardwoods should be accomplished. A forester is essential for preparing and managing the program in addition to duties involving the establishment of conservation regulations.

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3. A livestock feed program should be developed. This is essential for any expansion of the livestock and poultry industry for the district.

4. Further extension of cacao for the area should cease.

5. Plantings of coconuts should be increased, for this is again showing promise as a cash crop for the area. This expansion should be closely coordinated with the staff entomologist.

6. Castor beans, nut and fruit tree production should be pushed to the fullest extent, particularly on the outlying coralline islands.

7. Development work on subsistence crops should be intensified at

8. From the results shown of carabao introduction, this program should be expanded. This is an excellent program for the Palauan farmers; maximum use of the buffalo in cultivation work will be far superior to mechanical equipment in conserving the thin soils.

9. It is recommended that a U.S. firm be invited to make a study of the export possibilities of Palauan bananas for the Far Eastern Market, although the development of the banana industry involved certain logistic problems that make this a lower priority.

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10. Some of the best soils on the islands are in the mangrove

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11. The Japanese spent 30 years in the area and conducted an expansive tropical research program. Some of the records of this work where found and saved, but nothing substantial exists. The former director of Tropical Agricultural Research now resides in Tokyo and he has in his passession extensive volumes detailing the research conducted during the pars of Japanese occupation. These documents could be of tremendous where and could save considerable time and expenditure. He should be immacted and these documents procured:

Professor YASUHII ASHIZAWA #84; 4th Apt., Yoyoma Hyakunincho, Shinjiku-Ku Tokyo, Japan

12. For maximum effectiveness a total of $3\frac{1}{2}$ American technicians 4 recommended: 1 District Agricultural Officer, 1 animal husbandman, 1 horticulturist, and 1 forester to be shared with the Yap District.

a of the major problems confronting the Agricultural Department is the
and of sufficiently qualified technical people to carry out the programs,
b American and Micronesian. Crop failures such as that with the
a plantings on Babelthuap cause the people to be wary of the sound
b that is being done. This can be overcome with a strong, technically
b field Extension staff. Palau District presently has four Micronesians
b Wying for degrees at the University of the Philippines. These

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opportunities for advanced study should definitely be encouraged and continued; but, correspondingly, it is essential to have a slot for the man to return to after he has developed and augmented his technical competence. Similarly, pay must be in accordance with his professional achievement. Neither should the practical side of the training for Agricultural Extension Agents be overlooked; they should be required to handle the major portion of the daily station chores.

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13. The facilities at Koror should be maintained and necessary equipment added to handle the fiber program and cattle expansion. A soils testing laboratory should be installed. This will be essential for the ramie growing program in order to insure the efficient and economical use of soil emendments used in the program.

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TRUK DISTRICT

Staff:

There is one American on the Agricultural staff, the Island Development Officer, who also serves as the District Agricultural Officer; and 28 Micronesians, serving in the following capacities: Assistant District Agricultural Officer, Agricultural Agents, Cottage Industry Specialists, Fisheries agents and farm hands. Duties and responsibilities include advising farmers on proper and more productive methods of planting and tending coconuts, cacao, pepper; fisheries; development of cottage industries; small businesses; industrial development; formation of cooperatives; management; credit unions; farm-to-market transportation; and guarantine inspection service.

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Budget:

Fr FY '63 the Truk agricultural budget was \$54,000, all operational.

Facilities:

The Agricultural Department currently operates two stations. The Truk Agricultural Station includes five acres. The land area is being used for agricultural buildings, nurseries, taro introduction beds, poultry and Livestock facilities, fish reefer, boat and engine repairs, permament tree crop and plant introductions, and for a general headquarters for the promotion of the Agricultural Extension Program. The main Agricultural Station serves as a test center for the low island agricultural

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development.

The agricultural sub-station on Moen caters to the high islands agricultural development. It encompasses $7\frac{1}{2}$ acres which are used for the development of tree crops and provides an area where plant introductions can be made and tested for disease and insect resistance. In general, the sub-station serves three purposes: (1) to develop crops found in the area, (2) to introduce new species, (3) to train agricultural extension agents in the work of propagation and cultivation of these various crops.

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The sub-station is in very poor condition; it is poorly located, and is unattended; and the plantings are scattered in such a manner so as to be extremely difficult to ascertain what one is observing. The Agricultural Officer newly arrived on post is attempting to rectify the existing tituation, and it may be stated that this is no small chore. The "ferm" contains plantings of cacao, coffee, pepper, acerola cherry, citrus, mutmeg, mango, rambutan, taro, and macadamia nuts.

Cash Crops

Truk District produces approximately 13% of the Trust Territory's copra. In FY '62, 5,430,748.5 lbs. were sold; in FY '63, 5,426,298.0. Truk District appears to be unique in respect to the number of field trip ships. Here, apparently, increasing the trips does not increase copra Yield, whereas elsewhere the copra production is increased repeatedly in anticipation of a ship arrival. This seems tied to the population density of the area. Local consumption per day of nuts is quite heavy.

For an average family of five, ten nuts per day are consumed -- or 3,650 nuts per family per year. This is equivalent to about 1200 lbs. of copra per year per family.

THE STREET CONTINUES OF A LOSS

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It appears that an increase will come only with more intensive and effective work by the Agricultural Extension Service in persuading the people to adopt the recommended procedures of coconut production. To aid and encourage this work, the local Congress pays \$.05 for each nut planted.

Truk has the second largest cacao plantings in the Trust Territory. There are presently planted 200,000 trees in the District, with 75% of these plantings on Toll. About 46,000 trees should begin to bear next season. To date 4,600 lbs. of beans have been cured. Ten thousand dollars has been requested for the cacao plant for FY '64; this includes building a 20' x 40', 1700 lb. dryer and sun racks to be erected at the Agricultural Station.

The District, particularly in the lagoon area, has a real potential for forests. This needs developing, not only for cash, but as a means of conservation, both water and soil. The Agricultural Station has $l_2^{\frac{1}{2}}$ acres Planted with Swietenia microphyla, Auracaria excelsa, and Pteracarpus indica. As in other districts, there is indiscriminant cutting of timber by the people without regard to size or replanting. On Toll a group of farmers have formed a cooperative to harvest the abundant breadfruit trees.

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The Agricultural Department is renting the group a portable saw mill to harvest this supply of timber. With selective and controlled cutting this supply will last for some time, but the Agricultural Department has neither program nor personnel to enforce this policy.

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The Agricultural Station maintains a purebred Berkshire herd and a flock of White Leghorns and Hampshire hens for reproduction, the progeny of which are sold to farmers.

RECOMMENDATIONS:

1. A forestry and conservation program should be established under the direction of an American forester to be shared with the Ponape District.

2. An immediate feed production program should be initiated to strengthen the poultry and swine program.

3. The Agricultural Service should direct considerable attention to the rejuvenation and rehabilitation of the district coconut groves through the aid of the planting subsidy program.

4. The Agricultural Department should establish a new sub-station on the Island of Dublon, and the existing sub-station on Moen should be eliminated. The work and purpose of this station should be as that described for the Marshalls District.

5. One large scale cacao fermentary should be set up now, but as Part of a planned program for additional cacao fermentaries over the future.

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6. Aid the Vegetable Producers' Cooperative to increase the scale of its operations.

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7. As in the other districts, the weakness of an agricultural program is a poorly qualified staff. Efforts for strengthening the Agricultural Department should follow the same pattern previously mentioned. Additionally, the recommendations for the Island Development Officers' positions should follow the recommendations made for the Yap District.

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HEADQUARTERS

The Office of the Director of Agriculture is located on Saipan in the Office of the High Commissioner of the Trust Territory. The Director acts in an advisory capacity on agricultural matters to the High Commissioner and has charge of the entomology and Farm Institute operations and special agricultural development projects such as the cacao subsidy, ramie development, etc.

The Director of Agriculture does not have direct authority over the District Agriculturist; the District Agriculturist answers to the District Administrator, and the District Administrator to the High Commissioner. The High Commissioner then consults with the Director of Agriculture, or the Director with the High Commissioner. This is a very awkward and cumbersome system causing considerable frustration to a department that in many instances cannot afford the delay created while waiting for the Proper channels to function.

Except in matters of policy it is recommended that this system be eliminated and that the Director of Agriculture have the authority to act on matters of an agricultural nature and that the District Agriculturist be able to confer with the Director of Agriculture without first having to go through the District Administrator.

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The position of Agriculture Extension Specialist was recently approved for addition to the Agricultural Headquarters staff. To this new staff position will also be delegated the duties of Deputy of the Agricultural Department.

AR TOTAL TREAT PRACTICAL STAR

The staff budget for FY '63 amounted to \$129,000. This was disbursed for operations and special projects generated from Headquarters, i.e., livestock replacement, coconut subsidy, and boat-building projects. In addition, \$122,500 was allocated for territory-wide projects, i.e., fisheries school, beetle control, subsistence fisheries, ramie development, toir fiber development, cacao development, and the Farm Institute.

The request for budget funds in FY '64 amounts to \$305,000:

U.S. Personnel	\$ 90,000
Micronesian Personnel	8,000
Travel, per diem	5,000
Special equipment and supplies	57,000
Agricultural development projects	145,000
TOTAL	\$305,000

The need often arises for specialists to handle specific problems. Nather than taking on specialists as permanent staff, it might be advisthe to establish a fund to recruit specialists on a short term basis as the need arises.

ARM INSTITUTE AT PONAPE

¹⁸ Farm Institute, a former Japanese plantation and research station, ¹⁸ located on Ponape in the Metalanim municipality. In August 1962, an ^{Institute} for the training of Micronesians in the skills of agriculture

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was established. Presently, all districts are authorized to enroll two trainees each, for a total of 12 students at the institute. The graduates of this school will become agricultural extension agents, vocational agriculture teachers, and private farmers.

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Trainees are taught all aspects of tropical agriculture, i.e., botany, soils, horticulture, entomology, animal and poultry husbandry, farm management, arithmetic, truck crops, subsistence crops and cash crops. Emphasis in training is on the practical side; the students raise the crops and process them. Approximately two-thirds of the students' time is spent in the field and the remainder in the classroom.

The physical plant consists of approximately 500 acres, most of which is planted with coconuts. A section within the coconut area is fenced off for cattle grazing purposes, and there are forty head of cattle therein. There is a ten acre cacao planting for experiment, demonstration, and teaching purposes. Other plantings consist of macadamia nut, dwarf Pepper, forest and citrus. There are plant propagating nurseries, a cacao fermentary, a copra drier, dormitories and staff housing, classrooms, a mess hall, and miscellaneous sheds for tool and machinery storage.

The staff for the Farm Institute consists of one American superintendent and eight Micronesians to supervise and manage the many operations of the farm.

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\$28,000 was allotted in FY '63 for the operation of the Institute. A request for \$32,000 has been submitted for FY '64. The American superintendent's salary is not included in the Trust Territory budget, but is accounted for in the Agricultural Headquarters budget.

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It is recommended that the facilities of the farm be expanded to handle fifty students per year and an increase of one American on the staff be made to handle the additional student load.

As has been indicated, agricultural training in all the districts is sadly lacking. The Institute can handle practical training, but exceptional students should be selected and sent abroad for more advanced academic training. The Trust Territory Government presently has \$15,000 allotted for this purpose in the annual budget. Each district is ullotted two scholarships annually, but they should, of course, be transferrable if a district cannot fill its quota.

ENTOMOLOGY AND QUARANTINE SERVICE

Headquarters for this project is located in Koror, Palau District. This site was selected because of the great variety of flora and fauna and because of the infestation of the coconut Rhinoceros beetle which had devastated the coconut trees in this district.

The staff for this operation consists of one American, three entomology assistants, one laboratory employee, and a ten man beetle crew.

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Statistics regarding actual dollar losses from destructive insects have not been compiled, but judging from the known presence of harmful insects and observing the damage they cause, the loss is extensive. The U.S. Department of Agriculture which recently conducted a research project to eliminate the Melon fly on the Island of Rota, estimated the damage to the crops on Rota from that one insect was \$50,000 per annum. There are over a hundred known pernicious insects in the Territory -such as scale insects, banana root borers, and fruit flies. Additionally, the islands suffer great loss from the activities of rats and snails.

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To expect one entomologist to effectively establish a control program for the entire Trust Territory is unrealistic. In order to strengthen the program, it is recommended that two American technicians be added to the staff, one to be stationed in the Marianas District and one in the Marshalls. In addition to establishing an effective program and emforcing controls, the three technicians will be expected to conduct intensive training programs for agents and farmers alike.

Special training is urgently needed for the Micronesian District Agricultural Agents charged with enforcing the quarantine regulations of the Territory. These men must understand the need for quarantine regulations; they must be able to identify the harmful insects of the Territory, Hawaii, and Guam for both plants and animals alike. It is recommended that the Director of Agriculture establish funds for this initial training course and successive refresher courses.

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In reference to quarantine enforcement, serious leaks in the present system now exist in Kwajalein and Guam. Tons of fresh vegetables and fruits enter these ports monthly and leave the entire area vulnerable to infestations from many pests. Already a cottony cushion scale was introduced through the Kwajalein port. This scale was stopped in Majuro several hundreds of miles from Kwajalein. This particular pest could have devastated the breadfruit crop, an essential in the diet of the people.

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To close the quarantine leaks in Kwajalein and Guam it is recommended that the United States Quarantine Service be contacted to establish a United States officer at these ports of entry to operate a quarantine service.

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AGRICULTURAL BUSINESS VENTURES

1. Small Loan Fund (Estimated Capital Requirements) \$ 250,000

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Throughout the islands many farmers have accepted many of the principles being taught by the Agricultural Department. Instigation of most of these plans calls for an outlay of cash, i.e., to purchase a carabao for draft and plowing, plows, seeds, fertilizers, fencing, purebred swine and poultry, etc. To encourage farmers to take the initiative, it is recommended that the Director of Agriculture establish a Small Loan Fund for the use of Micronesian farmers. To initiate this on a pilot basis \$250,000 is recommended. After observation of the use and effectiveness of the fund, the amount needed could be adjusted accordingly.

The District Agriculturist will take the requests for loans in his district and assess the advisability and feasibility of the request. The maximum loan on a pilot basis should not exceed \$1,000. Care must be exercised not to encourage the farmer to burden himself with a debt he cannot repay. Repayment of the loan will depend on the crop or situation for which the loan was made. It is also recommended that a low interest rate be charged and repayment time not to exceed three years.

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\$_60,000 2. Equipment Pool It is recommended that the District Agriculturist establish an equipment Pool of farm machinery. The rental cost to the farmer borrowing the

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equipment shall be just for the operator and fuel in the initial years of the equipment pool.

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3. Beef Cattle Program

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There is presently on Guam and in the districts a large market for fresh beef. (See Table in Section A of Part II.) It is recommended that a commercial beef raising operation be established on 2,000 acres in Tinian in the Marianas group. As one of the promising economic development projects in the area, its organization and financing would be handled by the proposed Programming and Development Unit and the Development Fund.

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On Tinian there are approximately 15,000 acres of unused land suitable for cattle production and grain growing. There is presently on the island a legumenous plant (Leucanena glauca) that runs rampant. This plant in nutritive value is equal to alfalfa, and if brought under control for grazing with grass, an acre of land should support one cow.

The operation should commence with 1,000 head of cross-bred cows and 40 head of bulls. To produce the grade of meat the Guam market calls for and to insure that cattle can thrive in the area, the cows should be of Brahma stock crossed with English blood. Such cattle are available in the southeastern portion of the United States where the climatic conditions resemble those existing in Tinian. Bulls should be pure and held to two breeds, Brahma and English type. It would be desirable to have the manager make the selection of the English breed to be used.

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Considerable investment and employment will be generated before the introduction of the cattle can take place -- purchasing equipment, land clearing, pasture establishment, fence building, pen and corral construction, housing for staff and ranch hands, road improvement, water systems, barns, feed storage, machinery, sheds, etc.

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It is recommended that the Department of Agriculture contract for the managerial services of the ranch. This would include an American manager, herdsman and two assistant herdsmen. Each should have a five year contract, salary and a percentage of the sales. It is felt that with a salary, percentage of the sales or production, plus travel from and return to the States and housing, top quality people who have the ability, not only to raise cattle but additionally to teach Micronesians this art, can be secured.

It is further-recommended-that in-the-fifth year of operation the surplus heifers and cows be sold to Micronesians in the area who will homestead a minimum of 100 acres. This will mean changing the present homesteading limit of five hectares which is suitable only for subsistence farming.

It is recommended that about the tenth year the ranch be spun off to ^a private corporation or cooperative, depending on conditions at that time.

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The gross return after seven years should in theory be at \$300,000 annually from the sale of 927,500 lbs. of beef at \$.30/lb. in Guam and the net profit would be in the neighborhood of a 15% return on the investment.

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In order to capture the Navy market for beef on Guam, it will be necessary to build a slaughterhouse conforming to U.S.D.A. requirements. This commercial project whose capital requirement is estimated at \$90,000 would also be sponsored by the Development Fund.

4. Ramie Plantation

\$ 180,000

II-B-4

The District Agriculturist of Palau has proven that ramie can be successfully grown in that district, and intends to develop the crop with small scale farmers. In addition, the Mission recommends that the Programming and Development Unit investigate the feasibility of a 200 acre ramie Plantation on a commercial basis in Palau. The chief problem could be using Micronesian labor on a disciplined basis.

The site for the operation should be chosen by the District Agriculturist. Management should be handled by a contract. The manager should receive a salary and a percentage of the sales and workers paid on the basis of work actually done. Housing will be needed for staff and workers, machinery to handle the land and for decordicating the fibers, balers, miscellaneous hand tools, etc.

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Rough estimates of costs of production and return from the 200 acres would be a capital investment of \$120,000, with an annual operations. budget of \$60,000.

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With an estimated initial production of fiber at one ton per acre per year, or 200 tons per year selling at an average price CIF Japan of \$.20/1b., this in theory would equal an \$80,000 gross return and a \$20,000 net return or over 16% on the investment.

It is recommended that by the end of seven years arrangements should be made to phase out the government management to a private corporation or producers' cooperative, depending upon conditions at that time.

5. Truck Crop Farm

\$ 200,000

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There are few places in the Trust Territory where truck crops thrive as successfully as on Rota. The soil, the climate, and the rainfall are almost optimum. The geographic proximity of Rota to Guam also gives it special significance for an expanded commercial truck crop operation, for tons of vegetables are shipped monthly from the U.S. for Guam. Despite these optimum conditions and the closeness of a ready market, the vegetable production situation on Rota is presently in dire need of assistance. The assistance needed ranges from production through marketing. The farmers on Rota, although willing, are insufficiently aware of the specific market needs for Guam or of their own potential for production, that the demands on Guam are

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constant, that a variety is essential, that quality must be foremost in order to capture this market.

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A commercial truck farm sponsored by the Development Fund would implant methods of production, harvesting, packing, and marketing among the farmers on Rota so that after a few years the project could be "spun off" as a cooperative or a private corporation.

With the farm it will also be necessary to establish packing house facilities for the grading and proper handling of the produce.

It is recommended that local producers be encouraged to make use of the farm's packing house, and that all vegetables passing through the muse be graded and paid accordingly. This would be an excellent method with which to start a producers' cooperative. After the third year, each producer using the services would be paid only 90% of the met price received in Guam for his produce sold. The 10% would be intained in a fund, and when he had accumulated \$50 credit, he would then be a full-fledged member of the vegetable producers' cooperative. If this begins in the third year of operation, and 100 farmers were to become members, the government could easily phase out to a complete Micronesian operation, and the cooperative would have \$5,000 working apital, plus the farm set-up to carry on.

Mificient figures are not available for exact computations, but it is estimated that a 10% return on the investment will be received.

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This estimation was made by the Director of Agriculture.

6. Carabao Program

\$ 60,000

Babelthuap Island in the Palau District comprises the largest land mass in the Trust Territory. The Japanese used this land extensively, but efficient use of the land since World War II has been practically nonexistent, for the Palauans, preferring to migrate to Koror, eschewed the Herculean task of clearing and maintaining the land by hand, particularly so when returns to the farmer were so slight. With the cash crops that are being developed, such as ramie, and the returns now being much more inviting, the Palauan farmer is still, however, confronted with the back-breaking job of putting the land to production.

In addition to other built-in subsidies to entice the farmer back to the soil, thus relieving conditions in Koror and helping to make sounder use of the real economic potential of the area and the more efficient utilization of labor, it is further recommended that the Trust Territory Government, through the Department of Agriculture, establish a fund for the purchasing and importation of carabao into the area. It is recommended that 200 head be purchased; one hundred of these, being of ^{superior} stock and including four outstanding bulls, should be maintained in Palau for reproduction and sale to the farmers in Palau and in other districts. The other 100 head are to be sold immediately to the farmers. The farmer, if in need of funds for the purchase of these animals, can make use of the Development Loan Fund.

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RESEARCH:

1. Tropical Agricultural Research Station

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It is recommended that the Trust Territory Government arrange a contract with the University of Hawaii to establish a Tropical Research Station in the Trust Territory to engage in applied research. It is recommended that a three man survey team from the University of Hawaii be selected to inspect the area and determine the scope and nature of the research to be carried on. The anticipated capital investment of such a research station along with housing for American personnel would be under \$175,000. This must be a long range program to be of any significance; the University contract should not be expected to solve the day to day agricultural problems of the territory.

2. Specialists:

In order to handle the many emergency agricultural problems that arise in the Trust Territory, it is advisable to have an emergency appropriation for quickly securing specialists. For example, no funds were available to secure a plant pathologist when disease struck the cacao trees in Ponape which caused the loss of many trees in the area. The Entomology Service has many needs for specialists. Presently, someone is needed to travel to Indonesia to collect a species of Scolia wasps that prey on the Oryctes rhinoceros and Brontispa mariana beetles. This requires a specialist who can identify the insect, collect and transport

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it back to the Trust Territory in a live condition. Several recent imports of predacious insects arrived dead because of poor handling. Work is urgently needed to effect control of the giant African snail that infests most of the Territory. It is recommended that the calling in of specialists be coordinated with the research program conducted under the University contract.

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Chapter 5 EDUCATION

Mucation in the Trust Territory of the Pacific Islands is beset with multiplicity of complicated problems and pitfalls. Some of the problems of the schools are shared with other territorial services and activities, such as those imposed by the geography of Micronesia, poor communications and transportation facilities, the long absence of positive policies and directives from the United States Government with respect to the Trust Territory, and the inadequacy of its budgets over a period of years. Other problems of the schools are organizational and administrative in nature; still others are inherent in the unavoidable use of an alien educational system and language.

It is a truism that education does not function in a vacuum. Those who administer the affairs of the territory do so in the light of the policies accepted for the Trust Territory. Over the years, the public schools have reflected the policies of the national government then in vogue. Now the schools must be looked at in the light of new major policy decisions from Hashington. The first of these was the decision "to bring the inhabitants of the island complex into the orbit of 20th century living as rapidly as Possible while at the same time exercising the necessary precautions to school the social dangers inherent in rapid advancement." The second was the decision to accelerate an overall plan of social, economic and

political development. "Additionally," it was decided that "political knowledge and the development of political skills are desirable." These goals, of course, constitute a major reversal of the old policy, prevalent in the early years of the United Nations, of "protecting" trusteeship people. It is a policy which calls for careful treading because it proposes to disturb, if not destroy, patterns of life that have "served" Micronesians for "centuries. Insofar as education is concerned, the revised policy places the "schools, more than any other public institution and agency, in the vanguard of a deliberate program of cultural change.

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Already, in the light of the new policies toward Micronesia, the Trust Territory government has taken some major steps. The budget for education has been increased substantially. The elementary schools, which in years past were financed and maintained almost exclusively by the districts and municipalities in which they were located, are now being financed jointly by the districts and the Trust Territory government, with the latter taking on a major share of the burden. The minimum compulsory age for education has been theoretically lowered from eight to seven; and in Saipan, the legislature had made it theoretically possible for youngsters to enroll between six and seven years of age. An expanding secondary education Program throughout the six districts of Micronesia promises to bring high school education within the reach of many times the number of elementary school graduates now in high school. In an important step forward,

Inglish will replace the local vernacular as the language of instruction in the primary grades, and some commendable first steps have been taken to assure a measure of success. Plans are being formulated for a postsecondary vocational school in Palau. In a major drive to improve school facilities and instruction, the Trust Territory has embarked on an accelerated 3-year program of building 488 new elementary classrooms by 1965 and employing 271 American teachers by September 1966 to partially staff elementary schools throughout the Territory and to give the teaching of English an essential boost. The survey Mission took mote of these and other strides since public education was established inder American auspices almost two decades ago. It took note, too, of the dedication of many educators and the efforts they exerted to keep schools going under some of the most trying conditions.

During the visit by the Mission, criticismswere levelled at the schools by both educators and lay observers because they do not move fast enough nor educate well enough, and because they have not taken all the steps necessary to achieve better educational results. Some of the criticisms were healthy; some express a sense of urgency; others reflect a desire for a great deal more action after all these past years of neglect. Hajor steps have been taken, but some of those who hold the latter view want overnight success. Of course, there is not going to be any overnight success because the process of revamping education doesn't work that way. There are, however, vital steps which must be taken immediately to assure that the new interest and the increased budget for education are not

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wasted on the same old system which over the years has, admittedly, not done much of an educational job.

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There is no doubt that the new policy of change and the proposed plans for accelerated economic, social and political development in the Trust Territory will impose greatly increased responsibilities on education. In the final analysis, the basic educational level of the people of Micronesia will determine largely at how high a plane they can operate and, hence, how productive the proposed total economic, social and Political enterprise can be. Because of these considerations, it is essential that the quality of education be substantially improved in the Years ahead. In developing, and subsequently maintaining, a higher teonomic, social and political life for Micronesians, there is no substitute for good schools which must train the needed manpower for increased economic activities and, most important of all, provide the educated citizenry which is the essential ingredient of self-government.

The Trust Territory is faced with a tremendous task of revamping and redirecting its educational enterprise. The present system is illequipped in many respects to provide the kind of education essential for Micronesia at its present stage of development. The series of recommendations to follow offer some solutions to the problems.

RECOMMENDATIONS:

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To assure good schools throughout Micronesia, the Trust Territory
 government should assume full and complete responsibility for the

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financial support, maintenance and operation of education from elementary through high school and beyond under a unified school system.

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It has been evident for a long time that because of its limited resources, Micronesia can not support good schools. Although local support of education is a worthy goal, its pursuit has been detrimental to education. The responsibility for intermediate (junior high) and secondary education is now in the hands of the Trust Territory government. This recommendation extends centralized finance and control to the elementary schools now financed jointly by local, territorial and United States funds. The small revenues from the districts heretofore devoted to elementary education could well be diverted to other public service activities or public works projects which would benefit the schools indirectly. (The data are given in II-B-8 of the report on Taxation policy). The assumption of financial responsibility for the maintenance and operation of elementary schools by the Trust Territory government will assure every child of an equal opportunity for an adequate education program. In accepting this, the Trust Territory government and the United States Government should be prepared to face the financial implications of the policy. Preliminary estimates indicate that an annual operations budget of about ten million dollars will be needed to operate all schools from elementary through high school by 1968.

2. To effect a single unified school system, the Territorial Department of Education should assume operational responsibility for education

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throughout Micronesia, as well as such functions as educational guidance and leadership, supervision, service, research, planning and development, and the administration of rules, regulations and laws pertaining to education.

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Through its department of education, it is the Territory's obligation to guide the destiny of the local school systems at all times. The educational interests of the children as well as those of the Territory must be protected against localism, petty or otherwise. This requires that the territorial department of education must be strengthened not only to guide the local district schools through leadership, service and research, but also so that the department, through wise administration, can act to avert local controversies, minimize jealousies, and prevent parochial interests from jeopardizing the educational interests of the children, the district community, and the Territory. The machinery of administration must expedite and not impede instruction.

A unified school system for Micronesia, administered and directed by a central department of education has two great advantages over the present organization of quasi-independent school districts administered by the district administrator through a district education officer. Among them: (1) A unified system wift

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place authority and responsibility for education in one department rather than in six district administrators; (2) it places the responsibility and authority for education in the hands of professional educators under the leadership of an educator who heads the department of education as director of education. Under a unified system, district school administrators will be responsible to the director of education for the conduct of the schools in their districts.

robably the greatest movement toward the attainment of quality in the education of Micronesia will come through leadership, service, research, planning and development at the territorial level. Educational leadership at the top level of government based on sound scholarship and Minciples will provide Micronesia with something it lacks now -- a sense of direction. The quality of leadership emanating from the territorial department of education, however, must be such that the High Commissioner, the people of Micronesia in general, the school administrators and teachers in the district will have confidence not only in the advice, suggestions and direction that come from the territorial level but also in the scholarship and ability of the individual members of the department. It is most essential for effective leadership that the contribution of the territorial department be accepted on the basis It'its own worth. With this in mind, the qualifications and competencies I the educators at the territorial department take on a major significance.

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In order to operate on the professional level and serve Micronesia best, protection authority should be vested with a high degree of administrative independence. In this respect, the Code of the Trust Territory should contain provisions which will insulate the education function in the Trust Territory from administrative interference and harrassment, from partisan politics, and from the radical changes that may follow on the heels of elections.

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This proposal is a radical departure from the present set-up. Education, like all phases of the Trust Territory government, is the final responsibility of the High Commissioner. No change in this is being proposed. The schools are today operated for the High Commissioner by six district administrators through their district educational officers. District education officials are responsible only to the district administrators. Under this proposal, the district education administrators will be responsible for all professional matters to the territorial director of education who in turn will be responsible only to the High Commissioner for the conduct of the educational program. The maintenance of school buildings, housing of teachers and other employees, and other nonprofessional administrative, logistic and service functions remain with the district administrators. The planning of school plant construction Would follow the procedures recommended in the Public Works section of this Report (II-B-1) but in consultation with the Department of Education. Educators, however, will be fully responsible for professional education matters. Under this arrangement, creating and sustaining operational

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procedures that call forth and use the full creative capacities of all personnel in and out of education in the attainment of educational goals is a prime responsibility of the High Commissioner and of the director of education. By its very nature, this calls for common understanding, mutual respect, and a full measure of confidence among all who work in the schools and all who serve in the districts and at headquarters.

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 Lay-Micronesian Advisory Boards of Education Should Be Established at Both the Territorial and District Levels.

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The combination of a lay board of control and professional administration of the school system is an American process that has stood the test of time. Micronesia should eventually have a lay board of education with real powers and control over educational policies. For the immediate future, and until such time as the level of sophistication of the people is considered adequate for this purpose, it is recommended that an advisory board be established at the territorial <u>level to advise the High</u> Commissioner and the director of education on such matters as educational policies, programs, rules and regulations, and at the district level to advise the district educational administrator on local educational matters.

For the present, there is no territorial board of education. Some districts have school boards with a varying degree of effectiveness. District education officers and district administrators have veto power over them.

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An advisory board of education will serve some useful purposes: Members of the board will have a chance to work with educators on school matters thus giving them an opportunity to raise their levels of sophistication concerning this important service. It affords an opportunity for the High Commissioner and educators as well to sound out opinions of members on educational matters before deciding on major policies and embarking on major activities. Micronesian board members can serve as liaison officers between the school and the community. Finally, they can serve as lay "evaluators" of the success of the educational processes.

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Lay advisory boards of Micronesian membership can be the forerunners of future boards of education which will have real powers and control over the educational enterprise.

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4. The Territorial Director of Education Should Be Designated by The High Commissioner as the Chief Executive Officer for Education And All Executive Powers And Authority Pertaining to Education Should Be Delegated to Him as Head of The Territorial Department Of Education.

This is a corollary of recommendation number two. If the territorial department of education is to assume the responsibility for education across Micronesia, it is essential and necessary to strengthen the hands of the director of education, who now serves primarily as educational advisor to the High Commissioner and other officials, including district educational officers. The High Commissioner will continue to retain ultimate power of control over education, but he should delegate his powers to the director of education for operational

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and administrative purposes. Aside from the directorship being a professional educator's job, the High Commissioner just does not have the time, amongst his many other duties, to operate and administer the affairs of the school system. Under his delegated authority, the director should serve as the chief representative of the High Commissioner on all matters of education and he should work immediately and directly under and be responsible only to the High Commissioner. The importance of the educational enterprise to the success of the Trust Territory administration makes it imperative that the director have direct access to the High Commissioner -- certainly not through a program officer or any other official in the Office of the High Commissioner. The director of education should be the administrative head of the territorial department of education and the chief administrative officer of the Trust Territory for executing the laws, rules, and regulations relating to education which arise under the United Nations Charter, the laws of the United States pertaining to the Trust Territory, the Code of the Trust Territory, or policies of the High Commissioner. This line authority Tather than exercising a staff function is a general recommendation of the Mission for certain other department heads at Headquarters. (See Part III, Section C).

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The director of education should be a professional educator and a professional school administrator capable of providing bold, imaginative and dynamic leadership. Anything which weakens his effectiveness in any of these roles will utlimately weaken the schools.

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 To Carry Out the Functions Proposed For It, The Department of Education Should Be Reorganized to Fit Its New Role.

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The ultimate test of sound reorganization is the extent to which it will result in the improvement of education. It is essential, therefore, that the department of education provide for an organizational pattern best suited to efficient, economical, and effective operation. The size of the department and the size and number of its activities are decisive factors in organization.

For the educational task and other services it is called upon to perform, the department should have among its headquarters personnel the following key positions:

Director of Education - GS 15 level position.

Assistant Director.

Staff specialists in Elementary Education, in Secondary, Adult and Higher Education, in Curriculum Development and Research, in Library Service and in Nonpublic School Coordination.

These are top-level bureaus because they are expected to carry on top level activities under top-level professional administrators. All bureau activities are self-explanatory except perhaps for activities of the Bureau of Nonpublic Schools and Cooperating Agencies. The first part of the title refers to the neglected task of providing leadership and assistance to nonpublic schools. The second part refers to agencies which provide instructional services, such as health departments and health education, political affairs departments and political education and others. In the best interest of all educational programs, close

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collaboration between other agencies and the department of education is essential.

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At the district level, it will not be necessary to duplicate the territorial organization, but provisions should be made for the continuation of the Office of the District Educational Administrator at the GS 12 level, an elementary education section under a Superintendent of Elementary Schools at GS 9 or 10 level, a section which combines the other services under a superintendent, plus perhaps a section for business management, personnel, buildings and auxiliary services under a supervisor at GS 9 or 10 level. The organization at the district level should be big enough to do the job.

 It Is Essential That The Departments Of Education At Both The Territorial And The District Levels Be Provided With Adequate Personnel.

The provision of adequate personnel is essential to any enterprise. The territorial department of education is grossly understaffed even for its Present limited role. In line with earlier proposals to strengthen the department of education and to give it full authority and responsibility for education across Micronesia, additional professional and non-Professional personnel will be required at both the territorial and the district levels.

At the territorial level, the department at Saipan has provisions now for only five professional positions: director of education, assistant director (vacant), coordinator of Accelerated Elementary School Program,

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construction Supervisor of English, Supervisor of Libraries. The following personnel positions are recommended to conform to the organizational pattern proposed in recommendation no. 5:

Director of Education -- GS 14 or 15 level.

Special Assistant to the director -- GS 9 or 11 level position.

Assistant Director of Education -- GS 13 or 14 level.

Director of Curriculum and Research -- GS 12 or 13 level.

Director of Elementary Education -- GS 12.1evel.

Director of Secondary, Adult and Higher Education -- GS 12 level.

Director of Adult Education and Information -- GS 12 level.

Director of Nonpublic Schools -- GS 11 or 12 level (see rec. no. 13).

Director of Library and Information Services and Curriculum Materials Center -- GS 10 and 11 level.

Director of Auxiliary Services -- GS 11 level.

Director of Business Management and Personnel -- GS 11 level.

Director of Pupil Personnel Service -- 'GS 10 level.

In addition to these professional positions, an adequate number of clerical, Secretarial and administrative personnel is essential to permit these high-level-professional personnel to devote as much time to their Professional tasks as possible. The department of education is presently So short of clerical, secretarial and administrative help that educational Services are actually impeded. Specialists in English and other professional areas will also be needed to staff the bureaus.

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At the district level, the departments of education are unevenly staffed. Each district department should have a staff of positions as follows: Micro District Educational Administration (GS 12 level) Assistant to the district administrator (GS 7 to 9 level) Superintendent of Elementary Education (GS 9 or 11 level) Supervisor of Secondary Adult Education and Information (GS 9 level) Constant and the second Specialist in the teaching of English as a second language (GS 9 level) Supervisor of Business Management, Personnel, Buildings and Auxiliary Services (GS 9 or 11 level) LESSINGER CHOICE CONTRACTOR STATE Supervisors of instruction (GS 7 to 9 level) - approximately one to This is a real charter each 25 to 30 teachers or portions thereof it has been denot In addition to the professional positions, adequate number of clerical, secretarial and administrative personnel should be provided. All district school personnel should be responsible to the district educational chief gentestion this ETTERSORE OFFICIALE ETTER ETTER administrator. The need for an adequate number of instructional supervisors is greater in Micronesia than in any other place under United States jurisdiction. The low level of training of Micronesian teachers makes it essential that

teachers, too, will require supervision, especially because they will be

they be given constant supervision from qualified supervisors. American

teaching in an entirely different type of environment. It might be

Pointed out that even in the best of school systems, classroom supervision is an essential part of school operation. The goal to shoot at as the

Tatio of teacher and supervisor should be about 25 or 30 to 1, but the

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speed with which the required number of positions is filled must depend upon the development of adequate transportation facilities throughout Micronesia. Supervisors should be expected to live close to the schools to which they are assigned but they must be provided with adequate means to get around.

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. The Trust Territory Should Develop A Program And A Structure Of Education Unique To Micronesia At Its Present Stage of Development. Acronesia requires the development of an educational structure and instructional program unique to the special conditions in these islands. his is a real challenge for those who shape education. For some time ww, it has been demonstrated that the American-type school with its maded level of structure and its subject-centered, academically miented curriculum has had very limited success and with only a small Percentage of students at that. The chief reason for this is that the Mesent level of cultural sophistication of the children of Micronesia, In the American cultural sense of the term, is just not yet at the point mere they can profit from the kind of educational programs which merican schools offer. Both stateside and Micronesian school officials In the districts estimated that not more than twenty-five percent of The total instructional materials suggested in the elementary curriculum Dides have any real meaning to Micronesian children even when well aught. And with poorly trained Micronesian teachers, whose knowledge Yout America and the things they teach in schools is practically nil, e level of accomplishment is closer to zero. The best that can come " of the present schools - even after six years of attendance - are

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children who can not communicate well in English and often parrot a few Inglish words and phrases without really understanding the meaning behind them. The ability to absorb other subject-matter materials offered by the school is, of course, impaired. Micronesian children of each grade level are worlds apart from American children in the same grades. To expect that their level of ability and IQ will be comparable, taking cultural factors into consideration, is one thing; to expect that both groups would have the same level of achievement grade by grade using the same textbooks and teaching techniques is to expect something quite untealistic. This is an educational fact of life that Micronesian educators and Washington policy formulators must face.

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As a first order of business, Micronesia should begin to conduct research and experimentation on the best way to structure its educational program. At the elementary level, the grade structure and graded subject-matter curriculum developed for Americans have their shortcomings. Ungraded Structure and locally oriented curriculum offer some possibilities. Wher an ungraded structure children can be grouped without any reference to "grade level!" and made to proceed through a sequential program of their own individual rate of speed. This, of course, calls for a school curriculum, courses of study and instructional materials designed for limited and very specific purposes. It will be well for the Trust lerritory to contract for a year or so with a mainland university which tould provide a team of experts in curriculum design to draw up a lequential course of study for Micronesia's children. This curriculum

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should be close to Micronesia, but it should also have provisions for those who need to go beyond Micronesia for technical and professional training beyond the secondary level.

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A. Suggested Program for Elementary School.

For the present generation of students and perhaps for a few generations to follow, the majority of students will not go beyond six years, or, at best, eight years of schooling. This means that the elementary schools must educate Micronesians to take their place in their own backyards, at the same time giving them some skills necessary in the modern world and in their future relationship with the United States. The program of the schools should be something as follows:

There should be a strong emphasis on teaching of English - all through elementary school. During the first "ungraded years" of approximately one to two years duration, depending on the 'ability of the child, emphasis will be placed on CRAL English needed for communication at their own age level. Once students master a minimum level of "communication English", then reading and writing may be started. Again, reading and writing should be related for the most part to the life of the children in Micronesia. For the great majority of students who do not go beyond elementary school the emphasis should be on reading and writing for communication and information rather than the finer Points of writing and reading poetry and the higher levels of literature. These finer things should be left to the few who can profit from them

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as they proceed further in their studies. For the elementary schools, it would only be necessary that they produce a mass of people who could communicate in English -- speak, read and write in a manner and at a level sufficient for all normal needs of human intercourse. If the elementary schools can succeed in this task with the majority of students who would end their schooling with them, they would be doing an essential public service. Providing more than this for the academically able students is an important but a much easier task.

studying the United States only is . There are established procedures based on research and experimentation on how best to teach English to non-English speaking people. Already some measures have been taken by the territorial department of education under a specialist in the teaching of English as a second language to acquaint teacher-trainers and teachers with the techniques of teaching English, in English, to Micronesians .- More needs to be done and the single specialist can not perform the task all by himself. Since English is the most important single subject in the schools, an adequate supervisory staff is of prime importance. Given the language and culture differences among the districts, each district should have at least one specialist in English to assist the territorial specialist in the experimental and flexible formulation of English-teaching policies and in assisting teachers and supervisors to do a better job in this area. American teachers need supervision and special instruction in the teaching of English in English to Micronesians since they are usually untrained in this field. Since English has been adopted as the language

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of instruction, the children's competence in English will determine how successful they can be in school and how far they can go in the academic world.

The elementary schools should also prescribe a deliberate program of teaching about the United States throughout the elementary school years. As the administering authority, it is only proper that Micronesian children know about the United States, its history, government, people and its way of life. This is a radical departure from the present policy of studying the United States only as a subject in the fifth grade and practically ignoring its existence the rest of the time.

There are other vital subject areas such as arithmetic, science, especially life science, and health which properly belong in elementary schools after the students acquired a certain level of competencies in English. These subjects, again, should emphasize the preparation of students for the lives they must live when they drop out of school. Among these, the schools should teach health and hygiene not from the academic side but from the practical point of view. To perform this task, the schools themselves must be made clean, neat and healthy places. Most schools in Micronesia are unsightly, dirty and unhealthy. The power of good example

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is a great one. The schools, both teachers and students, must take the lead in making Micronesia a clean and healthy place to live. It has been done effectively in many communities. It can be done in Micronesia if it is made a part of school life and activity as a deliberate policy.

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The schools, too, must develop in their students a healthy attitude toward labor. Education has been "oversold" to Micronesians. Many see the school as the way to escape from doing hard physical labor. During the later years of elementary schools, community development projects and such vital activities as industrial arts and agriculture should be fostered as a deliberate method of keeping students close to the work they would be performing when they end school. The elementary schools should bring the students closer to the heart of the community by preparing them to make positive contributions to their own lives as well as those of their neighbors. These things are more than just book learning. If the elementary schools of Micronesia produce students who can communicate well in English, read and write adequately, appreciate in general terms the 20th century world in which they live, know their own history and culture, and that of the United States as well as the United Nations, and can return to the soil and the life of their community with a positive attitude towards helping its growth and development, then they will have done a good job of teaching.

E. Program for Secondary Schools.

Micronesia has embarked on a program to expand secondary schools throughout the Territory. Unfortunately, the expansion program started without a

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meeting of the minds on the scope, structure and goals of secondary schools. The result is that the high schools now are moving in an unplanned and unsystematic fashion.

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Secondary schools in Micronesia should have a double function: (1) it must expand the knowledges and skills acquired by the students in the elementary schools and (2) at the same time, explore the potentialities of the students to the end of channeling them toward the vocation which best suits their abilities. The secondary schools of Micronesia should offer a stiff academic program for those who must go to college to prepare for a profession, but at the same time they must not ignore the academic and vocational needs of those who can not or will not go beyond high school. Every high school should offer a good program to train the hundreds of clerks, secretaries, bookkeepers and workers in these categories needed by the government and by business firms. Every high school should offer basic courses in agriculture - the heart of the Micronesian economy. They should be able to offer courses to train enough mechanics for both land vehicles and boats to satisfy the needs of the islands. All these as well as programs in the teaching of masonry, carpentry and simple electricity can be offered without any large capital outlay. To be more effective, however, the vocational program of the schools must be tied in with practical work experience outside the schools. The emphasis here is the practical rather than the theoretical. The aim of the secondary school vocational program should be to enable qualified students to obtain useful employment

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after high school and to give those who wish and are qualified to go on to further technical or professional training enough of a foundation to proceed with some promise of success. The Trust Territory for the present - if ever at all - can not afford to offer only an academic high school which does not prepare students for useful work in their home communities.

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1.00 As in the elementary schools, Micronesia, again, offers the imaginative Received Torresoneers in a set of the contest of the contest of the educator an excellent opportunity to devise an educational program 210 2 which gives each student a solid program of English instruction adequate l'arnongleentergemaket for his purpose, be it preparation for college or for a clerical posi-"tion. "It must provide knowledge about 20th century living and the place of Micronesia in it, a genuine understanding and appreciation of the United States as well as the United Nations and the rest of the world, a wealth of knowledge about his own community and Micronesia as a whole, and a positive attitude towards community improvement and development. Micronesia can offer an excellent high school program for Micronesians that can be the equal of any American high school without making an exact duplicate of it. The real test of Micronesian schools is not how close they are to copying American schools in their structure, curriculum, subject-matter and form, but rather how effective they are in producing good and useful citizens.

C. Vocational School in Palau

Plans are currently underway to develop a post-secondary vocational school in Palau to service all six districts in the Trust Territory. In

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addition to this a second school might be developed in the Marshall districts. The employment opportunities for vocationally trained Micronesians at Kwajalein should make such a vocational school desirable in the eastern part of Micronesia. With activities likely to be generated through an expanded economic program Micronesia will need more trained manpower that only good vocational schools can produce. It is often said that the vocational school is the dumping ground for educational misfits. This should not be so. The vocational-industrial programs beyond secondary school should be available only for qualified students. The learning of technical and skilled trades requires the application of the ability to read and, in many trades areas, the application of a knowledge of mathematics and science. Strict screening procedures and adherence to high standards for admission to post-secondary trade programs should produce savings through providing training for those students who will be able to profit by the training.

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D. Adult Education

Adult education should be an integral part of the total educational program. For the most part, this has been a neglected area of education. Too often, the adult educators are totally unqualified for the job needed to be done. Like other phases of education, Adult education requires competent leadership if it is to mean anything to the community.

The need for an effective adult education program in Micronesia is readily apparent. Bringing Micronesia into the orbit of 20th century living

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requires adult participation if it is to be realized within the lifetime of the present generation. Even if the elementary and secondary schools were effective in the tasks assigned to them, changes in Micronesian thought and patterns of life must come from adults.

The adult education program should provide the following:

- A foundation education which would combat adult illiteracy in simple English.
- A program of family life and parent education, such as care of home and children, health and sanitation, etc.
- Citizenship education through such media as discussion programs, forums, films and lectures.
- 4. Informational programs on the United States, the United Nations, and problems of our times.
- 5. Leadership training and development for service in adult and community programs.
- Vocational training and re-training programs for those preparing for employment or already employed.

Educators have the tendency to think of adult education always in terms of classroom activities. Adult education as conceived herein is more than classroom work. It is community development in the best sense of the term. It means having the teacher play a significant role in the community. It involves radio programs, group discussions, printed and spoken words, movies and slides, and all the techniques of the mass______ media of communication. It involves health education, political education, economic and social education. In short it is a practical program of community improvement and development.

The execution of the adult education program should not be confined to the Department of Education but should involve, as well, the district Information or Public Affairs Officers.

share and the Cost State of the state of

Every Classroom Throughout The Trust Territory Should Be Provided With Well-Trained And Competent Teachers As Rapidly As Epssible The key to good education is the good teacher. It is imperative, therefore, that every classroom in Micronesia have a professionally qualified and competent teacher. If the schools are to provide the caliber of education essential for both individual and territorial well-being, the Trust Territory government must first provide, as rapidly as possible, a corps of qualified teachers. The quality, more so than the number of teachers, reflects the caliber of the school system. With a ratio of twenty students to one teacher, the Trust Territory has one of the lowest pupil-teacher ratios under the American flag and certainly the best among the territories. The favorable Pupil-teacher ratio, however, is offset by the excessive number of

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undertrained teachers. The problem is especially acute in the public depatries for courses in the parsonnel elementary schools where slightly over 65% of the teachers barely in the lever last forth bory making i creat satisfied the minimum Trust Territory certification requirement of a hold every hollege. ninth grade education. Close to 10% had less than ninth grade training. sense dated stopping with a structure bound there Both stateside and Micronesian school administrators estimated that spice which a transition to keepenone of its better anywhere from 40% to 65% of their elementary teachers are, in varying degrees, ineffective in their teaching. The presence of so many unqualified teachers means that thousands of children receive an education that is inadequate. This continued employment of a great number of poorly trained teachers means, too, that a large part of a generation of Micronesian children may be irreparably handicapped.

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Some steps have been taken by the Trust Territory to solve the problem. A new certification regulation was adopted, raising the minimum to completion of junior high school. American teachers are being employed as rapidly as time, money and facilities for housing can be obtained to replace those who are considered low in teaching competence and low in potential for higher certification. In increasing numbers each year Micromesian teachers with high competence in teaching and high potential for higher certification and teachers with low teaching competence and high potential for training are being provided scholarships and leave with pay for either high school training, special teachers institutes as well as for college education.

The schools of Micronesia face a serious problem of attracting competent Micronesians into the teaching profession and keeping those already in

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teaching. One of the chief reasons for this is that the increasing demands for college trained personnel in virtually every facet of life in the Trust Territory makes it more difficult for the schools to attract and hold every college trained teacher. With the proposed accelerated economic and political activities, the public school system can be expected to lose some of its better teachers, especially those who have college training.

raduating success to teach. With Some 360 students

Teaching does not have the same high prestige that other government positions enjoy, especially for those with college education. This is particularly true for teaching in the elementary schools where it has not been necessary to have much of an education to be able to get a job as a teacher. It will take a deliberate program of upgrading the teaching staff to change the present status of the teacher. A major contribution can be made to this end by providing teachers not only with good classrooms and adequate working tools, but by raising the requirements for teaching and providing them with high enough salaries to attract the most competent and to provide incentives to the good career teacher to stay in teaching. Unlike other government positions, teaching offers very little in the way of promotion. Public employees enter one position and most often retire with another. Most teachers remain as teachers until retirement. There is a great need in Micronesia to embark on a deliberate program to professionalize teaching. One of the first requirements is adequate professional training.

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The present minimum, ninth grade graduation, is too low. As rapidly as possible, the minimum entry requirement for teaching in the Trust Territory should be raised to graduation from high school and then to two-years of college. The requirement of at least a high school graduation should be established as early as 1966 when some 240 youngsters are expected to graduate from the twelfth grade. A teacher-training program should be devised in all senior high schools to prepare graduating seniors to teach. With some 360 students expected to graduate in 1967 and about 450 to graduate in 1968, the minimum entry requirement for teaching in elementary schools could be raised to two-years of college as early as 1969 or 1970 and most certainly by 1973. In the meantime every effort must be exerted to get new qualified teachers, be they Americans or Micronesians, and to improve the teaching competence of those already in the system, both by expanding the present MIEC training program at Ponape (Micronesia Teacher Education Center), and by sending the younger and more promising teachers to the College of Guam for the two-year Certified Teacher program. The Trust Territory should release from teaching all those who are incompetent and can not be substantially improved. Micronesia has passed the time when they can afford this dubious luxury.

The second requirement for professionalizing teachers is compensation equal to service and training. The present Micronesian Pay Plan for teachers is low. For example, teachers with Bachelor's degrees are

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now paid between \$1,851 and \$2,911, Schedule C-1 in the Micronesian Pay Plan. After four years of college, a teacher should be able to receive no less than \$300 a month or \$3000 for about ten months of the school year. Properly qualified teachers should be compensated on the basis of the Mission's proposed Micronesian D Schedule which will be confined to fully qualified professionals in various fields. See Part III, Section G for description of this plan.

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With regard to American teachers, the Trust Territory will be faced with a number of unhappy teachers unless it provides a sound program of orientation to its new recruits. For 1963, the districts were responsible for this. At the time of the Team's visit, there was no definite program being designed to orient teachers anywhere, except in Truk. The Trust Territory approached the University of Hawaii to conduct its orientation program, but this was made contingent on the availability of funds from foundations and sources outside the Trust Territory. There should have been no question about funds. Orientation of new teachers is of such importance that the Trust Territory should be able to provide the necessary funds. The cost for orienting teachers as a group in Hawaii or elsewhere this year could have been easily absorbed from savings in personnel salaries since only about 50% of the 140 allotted teaching positions for 1963-1964 can - CARLES - CARLES - CORR. be filled.

Orientation of new teachers, or any other American employe for that matter, should be a regular part of the employment process. For

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those who will be hired for the school year 1964-1965, provisions should now be made for a good orientation program to take place partly in Hawaii or the mainland and partly in the various districts. Many mainland institutions have had experience with Peace Corps orientation programs. Their experience could be most beneficial to the Trust Territory. The orientation should include, among other topics, the mission of the United States in Micronesia and its responsibilities... under the United Nations Charter; the Trust Territory government - its relationship to the United States and to Micronesia; the geography, people, history, and culture of Micronesia; education -- its role and functions, its students, structure and curriculum, its problems and all other aspects of the school. The orientation should be conducted not only by people who know Micronesia well and who know the problems of educating its children and youth, but also by experts in the problems of Americans overseas and the problems inherent in culture contact. Orientation, if held in the Mainland initially, could serve a dual function: (a) to prepare teachers psychologically for teaching in Micronesia and (b) to weed out those who obviously could not be successful in the Micronesian environment. It seems that paying teachers' travel back to their point of recruitment from any point in the Mainland will be much less expensive than the problems and the miseries maladjusted teachers can create.

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Aside from the proper orientation of American teachers, there is the even more critical problem of recruiting the right kinds of teachers

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in the necessary numbers. The Mission developed an agreement in principle between the Trust Territory government and the State of Hawaii, whereby the latter would accept the contractual responsibility of providing the right kinds and numbers of teachers from its own State educational system. They would be detailed, with their individual agreement and subject to the individual confirmation by the Trust Territory government, on two-year tours of duty. Since they would retain their positions in the Hawaiian State Teaching Service, the advantages of such an arrangement are numerous. The Mission understands that this proposal is being pursued by the High Commissioner. However, if for any reason that is not now foreseeable, such a contract should not be realizable, and it temains necessary for the Trust Territory government to recruit American teachers directly, the Mission would recommend that the Peace Corps be asked to cooperate with Interior in handling the screening and the orientation of the teachers.

Present thinking calls for the elimination of all American teachers by 1973. The date seems unrealistic and the idea unsound. Even if the number of qualified Micronesians should be adequate to staff the schools of the Trust Territory, it would be a wise policy to have at least five to ten percent of the teaching positions in each district and at both the elementary and secondary levels open for competent American teachers on a limited-term appointment in order to bring to Micronesia new blood with new ideas and practices in education.

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9. Wherever Possible Small Schools Should Be Consolidated.

Micronesia has something like 180 public and 40 non-public school units for a little over 19,000 students from grades one through twelve. This represents an average of 86 students per unit. Small one-and-twoteacher schools have been found to be very costly to operate -- costly in terms of the effects of poor education as well as in terms of money.

The geography of Micronesia makes small schools unavoidable in certain localities. Consolidation, however, is possible in many areas now served by small units. Some already are scheduled for consolidation within the next two to three years as new schools are constructed. Many more units can be consolidated in such localities as Ponape, Yap Island proper, Majuro, Koror and Babelthuap.

The point of this recommendation is that as a matter of deliberate policy, the Trust Territory should provide for and move toward more consolidation of schools in the interest of better education. To be sure, this may entail additional cost for housing and feeding students in some localities, bus transportation, and other services; but these are readily off-set by improved instruction, efficiency in operation, economy in staffing and to some extent savings in toal construction costs.

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A Master Plan For The Development of School Facilities Should Be Prepared As Early As Possible

The Trust Territory is faced with a gigantic task of building adequate dassroom and other school facilities throughout Micronesia. With financing from the United States Government, the Trust Territory emwarked this year on a three-year accelerated elementary school construction program, involving approximately \$10,000,000 in Federal funds plus contributions from the people of Micronesia in terms of domated land, free labor and local aggregates like sand and gravel for concrete-block production. The ten-million dollar project is intended to build 488 elementary classrooms by 1966 and 246 houses for elementary school teachers by the end of fiscal 1965. With the expansion of Maccondary education throughout the territory, construction of new facilities was also in progress in all district centers. Half a million dollars was requested for fiscal 1964 and an estimated \$3,316,000 stheduled to be requested for 1965 to expand and improve high school facilities.

The school construction program is running way behind schedule. There Were several reasons for this, one being that appropriations were not available until late in Fiscal Year 1963, and second, the Trust Territory Bovernment, at both the district and headquarters levels, did not have a clear and detailed plan on how to proceed with the project. The construction picture at the time of the visit was one of poor planning, poor Coordination and improper control.

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What is needed in the school construction project, of course, is a master plan for development. Schools are now being built at random and without too much attention to future growth and to the possibilities of improved roads and transportation facilities. Sites are more often accepted on the basis of availability rather than desirability. The junior high school in Kusai is a case in point. This was built away from the population center so most of the students have to be housed and fed. A careful study of population movement, proposed roads and transportation facilities, and other vital factors affecting school sites and facilities should provide the Trust Territory with the basis of a master plan for school development.

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As much as possible, the accelerated construction of elementary school facilities should be looked at in terms of the proposal made to consolidate small units. The recommendation to keep seventh and eighth grade students in elementary units should be evaluated in terms of its effects on classroom needs. From the educational point of view, keeping seventh and eighth graders in small elementary units may prove to be a handicap for students, especially for those who need to go beyond the elementary level.

School buildings are educational tools as much as they are shelters from the elements. Educators should be consulted and their approval sought for every school building design and every site selected.

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In so far as it is possible, the Trust Territory should provide permanent construction of concrete block rather than the temporary Enewitok building, particularly in typhoon-prone areas.

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Since information was not available to make projections of school sectors size to be a school by school basis, overall estimates were take care of the need for additional classrooms to serve the state of the school population.

The following projections of elementary (1-6 grades) school enroll-Descrete made by the Trust Territory education personnel for the

ment were made by the Trust Territory education personnel for the minimum being ment of the minimum being the minimum being the second second

Year	Projected enrollment
1963	13,723
rollight 1964 of starb grade. " Chelmeetseet	14,410
1965	15,404
1966 1966 19 10 10 10 10 10 10 10 10 10 10 10 10 10	18,441
1967 recent of the elevel- guade of	19,471
in destate 1968 al. And is the database of a	20,425

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The projections exclude non-public school enrollment which was 3,525 in 1962 and which is expected to remain about constant during the

period. They also anticipate that the entrance age for children will be reduced to 6 years old. The projections include the phasing in of these additional pupils over a three year period starting

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The accelerated elementary school construction program will provide 488 new classrooms and 104 of the present classrooms are considered useable, giving a total of 592 classrooms. Using an average of 25 students per classroom (a conservative figure is used because of the small size of the schools in many islands) these classrooms will take care of 14,800 students. To provide for a 1968 enrollment of 20,425 students approximately 220 additional classrooms will be needed, costing an estimated \$2.3 million.

Teachers' housing needed to accompany these schools would cost \$1.4 million, bringing the total additional elementary school capital costs to \$3.7 million through 1968.

As indicated earlier in the report a sharp drop is expected in enrollment beyond the sixth grade. The need for 7th and 8th grade facilities is based on the assumption that 50 percent of the sixth grade class will go on to these grades. It is further assumed that. approximately 60 percent of the eighth grade class would continue on to higher grades. While the majority of seventh and eighth grade students are expected to attend day schools, our projections assume that 70 percent of the 9th through 12th grade enrollment will be boarding students. The combined cost of classrooms, dormitories, dining facilities and teachers' housing for the secondary schools through 1968 is estimated to total \$6.3 million. The cost of meeting the needs for both elementary and secondary school construction through 1968 will be \$10 million.

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11. For Purposes of Future Planning, A Relatively And Reliable Pupil Population Projection Should Be Obtained

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A distinct characteristic of the schools in Micronesia is the upward growth pattern of enrollment. Between the period 1952 and 1962, the school population more than doubled in size, from 8,856 to 18,294. Enrollment is expected to increase from 18,973 in 1963 to approximately 23,826 by 1968 and 30,000 by 1973.* With greatly improved school facilities, better qualified teachers and good school lunch program, more students will enter and remain in school for a longer period of time than has been the case up to now.

who eracusted prior to September 1902, and bud by There are conflicting predictions on enrollment. For future planning, te si lab lovy trees the d the lought from Steels in the Topy of * reliable projections of school enrollment are a prime requisite. and the second and the second of any School population figures are significant indicators of the dimensions if condets, the soul for waters and tot is other. Hel of the problem of programming, staffing, housing, financing, and generally operating the total educational enterprise. Unless someone is capable of doing this in the Territory, it is recommended that the services of an off-island expert on school population projection, available in many mainland universities, be obtained for a three months period to provide educational planners with a reliable indicator of student growth. and anti-department additioners

 * Figures provided by Director of Education, Department of Education,
 Trust Territory Headquarters, Saipan. The figures are conservatinve include non-public schools.

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12. Adequate Provisions Should Be Made For An Expanded Man-Power Training Program Beyond Secondary Schools

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net for cellege and professionally trained personnel. To meet this A recent projection of needs in the professional field indicated that something like 1,043 positions of all categories in 1963-1964, including 635 teaching positions, require training beyond secondary schools. This is expected to increase to 1,305 by 1967-1968. Some of the positions will require less than four years of college but some, like dentistry and medicine, will require more. According to increase provided by the director of education, the Trust Territory increase to have about 164 college graduates by 1968, including 21 is a far cry from what the territory needs in the way of technically and professionally trained Micronesians. Excluding approximately 800 teachers, the need for trained manpower in other fields will be in excess of 500.

In the absence of any institution beyond secondary schools, the Trust Territory resorts to scholarships and other means of financial assistance for those who need higher training. In 1961-1962 the Trust Territory government awarded \$101,500 worth of scholarships to 55 students. For the same year, non-government scholarships amounted to \$103,600 for 78 students.

Elsewhere in the report a number of references have been made to the need for college and professionally trained personnel. To meet this

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Elsewhere in the report a number of references have been made to the need for college and professionally trained personnel. To meet this need the Mission recommends an expansion of the scholarship program through 1968. The number of scholarships and the estimated costs (which are included in the Mission's recommendations on annual operations budgets in Part II, Section C) are summarized below:

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- Number of New	- Annual	l cost(in	n thousan	nds)	
Scholarships	1965	1966	1967	1968	1
	4 050		A	A	
100	ş 250	\$ 250	\$ 225	\$ 200	Same -
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These projections assume that most of the scholarships would be for a four year period. By 1968 approximately,500 students are expected to be on scholarships. The projections are based on the general premise of providing scholarships for 25 percent of the students graduating from high school. Thus about 7.5 percent of a given year's entering first grade class could be expected to go on to college through the scholarship program.

To meet the need for training young men and women beyond secondary schools for technical and professional positions, the Trust Territory should begin a program of guidance in the secondary schools to identify students with potential for technical and/or professional training. The

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proposed scholarship program should be evaluated both from the point of view of adequacy of funds and selection of areas of training. At the same time that off-island programs are expanding, all efforts should be exerted to strengthen the agriculture institute in Ponape, the nursing program in Saipan and the teacher training center also in Ponape. Other priority training programs are suggested in mrious sections of this report.

ecause of its proximity to Micronesia and its low-cost features, the College of Guam offers the Trust Territory a college within its m locale. Close to a hundred Micronesian students were registered t the College of Guam during the academic year 1963. It is expected int the number of Micronesians will increase. The Trust Territory mould make a study of the best way to utilize the College of Guam in meeting its needs for more college trained personnel. The Guam bllege could be very useful in preparing teachers for the elementary whools, for example. The College of Guam, however, can not continue for too long to support an expanded Micronesian program without some usistance. There are at least three ways of providing assistance: 1) A joint Trust Territory-Guam support program has been suggested. his has merits and the Trust Territory government should begin to plore its feasibility. (2) Money grants for expenses in an amount to be based on the number of Micronesian students. (3) As a long mage possibility, the establishment of a Pacific college, ased on Guam, financed jointly by the Pacific territories

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and the United States Government should also be explored. This would be somewhat like Howard University in Washington, D.C.

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13. As Part Of The Total Educational Responsibility, The Trust Territory government Should Take A Vital Interest In Nonpublic Schools And Should Facilitate Their Educational Activities

1. Stucktional effort

Some 40 nonpublic schools are engaged in discharging in a favorable nammer a part of the educational responsibility of the Trust Territory government. Over a third of the elementary students and over forty percent of secondary students are enrolled in nonpublic schools. Most observers in the area consider the nonpublic schools superior to the public schools. Public school officials treat nonpublic schools with "pleasant alcofness" and show very little, if any, live intercets in their educational activities. Some officials frankly are resentful to the idea of assistance to nonpublic schools in any form. They see these schools as competitors rather than as partners in education. Not many seem to see the connection between the educational activities of nonpublic schools and the educational mission of the Trust Territory povernment. This is unfortunate.

Mecause nonpublic schools are discharging well a part of the educational responsibility of the Trust Territory government, the Mininistration should give due recognition to this important fact through a positive policy of assistance and cooperation. This can the done in many ways:

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- (1) The statement of educational philosophy and objectives for Micronesia should include the role of nonpublic schools in the total educational effort.
- (2) The Department of Education should establish a top-level bureau and appoint a top-level educator who will coordinate the work of nonpublic schools and who will be responsible for meeting their needs in every possible way.
- (3) The High Commissioner should appoint a Trust Territory Committee of non-public school educators and/or supporters to advise him and the director of education on all matters affecting nonpublic schools. Such a committee should be given due recognition by the Trust Territory government and should have the right of direct access to the director of education and other top levels of government in pursuit of educational matters.
- (4) The Trust Territory should recognize and wherever possible give weight to the needs of nonpublic schools in making priority decisions on such matters as the building or maintenance of public roads, extension and repair of electrical, telephone and water lines and facilities. This is not intended to mean extending these facilities way in the wilderness just to serve a nonpublic school and no one else. It means, however, that the same weight and priority should be applied to the needs of nonpublic schools as they would be

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applied to public schools, on how far and when to extend
roads, public utilities and other non-school facilities.
(5) The Trust Territory should eliminate present charges for
freight from Guam to the district centers on United States
Department of Agriculture surplus food for nonpublic school
lunch programs.

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- (6) The Trust Territory should assist nonpublic schools through joint purchase and procurement of materials for school construction, instructional supplies, materials and equipment, textbooks and other commodities whenever such assistance could mean savings for both government and nonpublic schools through bulk purchases and shipment. This could be done simply by asking nonpublic schools to submit their needs at the time the government prepares its orders for its schools, and billing them at cost when goods are delivered.
- (7) The Trust Territory government should make available either for purchase or preferably on a non-fee basis surplus government land for school sites. This will be highly desirable especially for well-established nonpublic schools. This policy is in line with United States mainland practice where the Federal Government makes available free of charge to both public and nonpublic schools and colleges any land it owns and does not need for its own use.

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- (8) Trust Territory equipment and skilled personnel should be made available free of charge to nonpublic schools for temporary assistance where the educational benefits clearly indicate the value of such assistance.
- (9) The Trust Territory should conduct regular meetings between nonpublic school teachers, administrators and other personnel and those of the public schools, for the purpose of sharing ideas and working out mutual problems of education.
- (10) The Trust Territory should consider nonpublic schools as "public" for purpose of assistance and not as "private" in the same sense as merchants are private, and should therefore deal with nonpublic schools on a different basis, often providing services and assistance free of charge where such assistance will provide for better education.

This recommendation for assistance concurs with the sentiments expressed by members of the United States Congress and the Trust Territory government should facilitate the educational work of nonpublic schools. It was the sense of such leaders of Congress as Congressman Wayne Aspinall, Chairman of the House Committee on Interior and Insular Affairs, Congressman Leo O'Brien, Chairman, House sub-committee on Insular Affairs, Congressman Michael Kirwan, Chairman of the House Appropriation Subcommittee handling Trust Territory appropriations, as well as others in Congress, "that it would not be considered out of place for the Trust Territory

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government to furnish assistance to nonpublic schools, solely in their "secular aspects, to the same degree to which Federal assistance is now or may hereafter become available to similar schools in the United States and to the extent to which the furnishing of such assistance is consistent with the use of funds, after they are actually appropriated, to accomplish in full the purposes for which they are appropriated." Financial and other forms of assistance to nonpublic schools always "raises the question of its constitutionality. Until such question is settled by the Supreme Court or by amendments to the Constitution "clarifying the matter, assistance to nonpublic schools in the Trust "Territory, in the views of Congressman O'Brien, should not be the vehicle to try to solve that problem.

14. To Assure Success, The Trust Territory Should Demand Of Its Educational Leaders Nothing Short of Superior Quality Leadership And Service

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For many years now, education in Micronesia was essentially a "holding operation." This is rapidly changing. The responsibilities of education departments at both the district and territorial levels will increase tremendously during the years ahead. The success or failure of the school system and the quality of service and leadership it renders rest in the final analysis upon the character, the ability and the capacity of the people who occupy the key positions in education. The rate of educational change in Micronesia -- and changes are needed badly in many respects -- and the extent to which the schools can be

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successful in providing quality education unique to the needs of Micronesia in the 20th century will be determined in large measure by the presence of enlightened, aggressive and competent, and creatively intelligent leadership and service in the territorial and district levels of education. Micronesia is not without dedicated leaders in education. But there is a terrible shortage of qualified leadership and service. Many things about the schools point to the absence of quality leadership, the most obvious and recent one having to do with the accelerated school construction program. Most Trust Territory educators see the accelerated program simply in terms of more classrooms and more teachers. Competent, bold and imaginative leadership would have capitalized on this first major breakthrough in education to begin a more vitalized and forward-looking educational program for Micronesia.

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The time has come for the Trust Territory to face squarely the problem of poor leadership. There is a high proportion of mediocre and incompetent and stale personnel holding key positions in education throughout Micronesia. In the interest of students and the community and the future of Micronesia, the High Commissioner, as the Chief Executive Officer, must single out the incompetent people, be humane but firm in taking the steps necessary to remove them from their positions. Somehow, even with local and United States Civil Service tenure laws in effect, the Trust Territory government must find ways to eliminate the unfit from the school system and to remove them from their

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positions in administration where they do great damage to children and youth as well as to teachers and others who work under their care. The same should also be done with those who hold positions as teachertrainers and/or supervisors. This should also apply to Micronesians as well as to stateside employees. Those who occupy the positions of superintendent of elementary schools should also be removed, reclassified, or shifted from their positions unless they are qualified.

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Of course, it is not enough simply to remove the incompetents from their positions. It is imperative that those with potentials for leadership be provided with every opportunity to improve themselves. It is imperative, too, that potential leaders be identified early and be provided with every opportunity to develop into top-notch leaders. For the long pull ahead, it is essentail that native leadership be developed. Promotion of Micronesians to key administrative positions should not be used simply as a "showcase"; nor should it be used to award the faithfuls who served good and long. Promotion of both Micronesians and Statesiders should be based only on competence and leadership ability. If educational leadership is to realize its potential and properly serve the schools and the territory, education must be strengthened not only by more adequate number of professional staff properly compensated, but also by the appointment of and retention of professionally competent educational administrators.

In conclusion, it should be stressed that providing a sound program of education unique to Micronesian needs is possibly the biggest

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single challenge facing the United States in its objectives of bringing about the most rapid political, economic and social development. In addition, it is probably the most politically sensitive single issue among the Micronesians, and a failure in this sector of the over-all program would have very widespread effects among the masses of population.

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Chapter 6

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PUBLIC HEALTH

Since the Mission did not include in its membership any public health or medical expert, it directed its major efforts in the Public Health sector to two problems it judges critical:

1. Capital funding necessary to provide adequate health and medical facilities;

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2. Securing American professional staff.

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Medical Plant Survey and Capital Requirements of Program

Present hospital facilities consist of a main hospital in each of the six district centers and a sub-hospital each in the island of Kusai, in Ebeye (Kwajalein Atoll) - and in the island of Rota. A leprosarium is located in the island of Pingelap. There are also about 106 field dispensaries which serve the routine medical needs in outlying communities.

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The <u>ninety</u> bed hospital in Saipan was only recently completed. The tuberculosis ward for male patients is still on the planning stage and presently therefore both male and female patients are housed in the same wing of the present facility. An additional \$40,000 may be required to construct and equip these facilities.

The new hospital in Palau is still incomplete. The unobligated balance of \$40,000 will be used to remodel a portion of the existing warehouse for dental offices and the old nursing school for a kitchen and a dining room.

The new facility in Majuro, Marshall islands, contains about <u>45</u> bed spaces. The T.B. Ward which was a part of the old hospital has 20 beds. A new laundry and a classroom for health aid trainees are yet to be Provided. In addition, a 60-bed ward is on the drawing board to house severe paralytic cases left by a recent polio epidemic. Of the funds for the hospital project, there is still a balance of about \$90,000 which is earmarked to complete these facilities - the polio ward, a new

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laundry and a nurses' dormitory-and-classroom unit. However it is possible that this balance may fall short of needs by as much as \$80,000.

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The present hospitals in Ponape and Truk consist of old frame and quonset type structures and should be replaced. A funding program has been started for both hospitals. Appropriations to date total \$320,000.¹/ The proposed facility for Ponape should contain at least 125 beds and that for Truk about 150 beds. At about \$5270 per bed for construction (350 square feet @ \$15) and \$1000 per bed for equipment, an additional funding of a little over \$1,400,000 (275 beds @ \$6270 less \$320,000) would be required to complete the two projects.

The hospital in Yap is of concrete structure built on a mound which appears to be an old fort or shelter of some type. Though the hospital is not ideally situated, its appearance can be improved immensely by more efficient housekeeping practices. Fresh paint, and lots of soap and water would give the facility almost a new look. Unless the building will be weakened structurally by further settling, its replacement should probably not be included in the capital program through Fiscal 1968.

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One sub-hospital is needed in Babelthuap (Palau), in Ulithi and in Woleai (Yap outer islands), in Lukunor and in Puluwat (Truk district), in Jaluit and in Wotje (Marshall Islands) and possibly in Rota (Mariana district). At a minimum 20-bed space for each and at \$5000 per bed there is needed approximately \$800,000, i.e., eight (8) units at about

1/ Not included is the sum of \$15,000 for remodeling the kitchen of the present hospital.

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\$100,000 each. The existing unit in Kusai will need a little refurnishing and not immediate replacement. The sub-hospital in Ebeye is being planned for transfer to the concrete shrapnel community shelter.

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No general survey was made on the number of field dispensaries which should be replaced. Observation of the few visited, however, indicated as a very rough rule of thumb that approximately 50 percent of the total number requires new buildings.

At about \$4,000 per unit, total funding should total around \$200,000 computed as follows:

- \$ 2,000 for a 200 square foot bldg. @ \$10 per sq. ft.
 - 1,000 for fixtures per unit
- 1,000 for equipment
- \$ 4,000 Total cost per unit
 - 50 units to be replaced ,
- \$200,000 total funding required.

Therefore, the recommended size of the public health capital program through Fiscal 1968 adds up approximately \$2,500,000.

Securing American Professional Staff

The major problem here is the tremendous difficulty for the Trust Territory Bovernment in individually recruiting and periodically replacing American Physicians who have the necessary personal and professional qualifications. (This will continue to be a problem for at least ten to fifteen years, by The stand size of contract with white

which time it is hoped that fully qualified Micronesian physicians will become available). Given this major and almost insuperable problem (arising from the necessarily insufficient compensation, poor living conditions, interrupted career, etc.), the Mission recommends that the responsibility for providing qualified U.S. physicians on a rotation basis be contracted out. The logical organization with which to contract this responsibility is the U.S. Public Health Service, but that organization informs the Mission that it is reluctant to enter into a contractual arrangement for providing physicians without having full jurisdiction over the entire Public Health program in the Trust Territory. Since this would involve the creation of a separate administration and bureaucracy, the Mission envisions many problems from such an arrangement in this vast island-scattered area where logistic and administrative difficulties are so great. As an alternative, the Mission was able to secure a tentative agreement in principle from "Medico", the non-profit volunteer organization, on a contractual arrangement for the provision and two-year rotation of the necessary American physicians. It is recommended that the Department of Interior, in consultation with the Trust Territory government, work out such a contract as quickly as possible.

An additional comment on the use of those American physicians is advisable. The Mission suggests that they not necessarily always be used as the district Public Health Department Heads. Rather, the American physicians should be used quite flexibly, given the fact

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that, (1) there are in some districts, such as Palau, Micronesian medical practitioners who are competent medical administrators, and their automatic replacement by Americans would cause resentment among the Micronesians; (2) the greater need for internists and surgeons; and (3) the critical humanitarian need of American physicians frequently traveling throughout the islands on the district field trip vessels.

Similarly, in terms of the most effective execution of the Public Health Programs for proper sanitation, water supply, etc. in the islands outside the district centers, the Mission recommends primary reliance on the proposed Community Action Program of Peace Corps Volunteers (II-B-7), and only secondarily on a corps of Micronesian sanitarians.

Finally, as a minor but needed service, the willingness of the Public Health Department of the Government of Guam to handle at very minimal charges the supervision of the proper collection of Vital Statistics in the Trust Territory and their processing through their new IBM equipment should be utilized. The same applies to the offer by the Public Health Department of the Government of Guam to supply laboratory backstopping services to the hospitals of the Trust Territory.

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Chapter 7

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COMMUNITY ACTION PROGRAM

Such a program to be implemented by the Peace Corps was found to be particularly essential in the Trust Territory due to:

- widespread requests of villagers for leadership and assistance of this kind;
- questions by Micronesians as to why couldn't the Peace Corps help them if it was helping the rest of the world;
- the limited development potentials of this scattered island food-gathering economy makes community action one of the very few feasible aids that can be offered;
- the difficulties of conducting a vigorous large scale community action program within the framework of the T. T. Government Bureaucracy;
- 5. the tremendous need in the Mission's judgement for direct and continuing American contacts at local levels.

The Mission recommends that the program consist of projects such as farm to market type roads, simple public building construction, entchment water systems and sanitation facilities, land clearing, shult education, handicraft assistance and youth corps development. The Peace Corps Volunteers would not function as teachers in the schools of the Trust Territory government. It is suggested that the training program of the Peace Corps Volunteers would begin June 30, 1964, and that the work could then begin in October.

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- Council of Micronesia to pass resolution asking the
 T. T. Government to make available \$200,000 to District
 Congresses for logistic support for the initial two year
 contract which could be administered by District
 Administrators under terms of a single Peace Corps Project
 agreement to be signed by the District Congresses.
- 2. All non-logistic support (recruitment, training, allotments, subsistence, international-travel, medical support, etc.) to be advanced by Peace Corps and reimbursed by Department of Interior on quarterly advice of charges, if so desired by the Peace Corps. (\$600,000 over the two-year period).
- 3. One Peace Corps Representative to the Trust Territory, with headquarters in Saipan; 2 Associate Representatives, one in the Marshalls and one in Palau; and 6 Peace Corps leaders (1 each stationed at each District Center). This rather large complement of administrative personnel seems advisable in view of the great distances involved between PCV locations and administrative centers.
- The initial program for 60 Peace Corps Volunteers can be expanded in successive phases.
- Peace Corps volunteers will be assigned outside of District Centers among the 100 or so municipalities to assist them

with self-help programs of community improvement as described above.

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 Outside costs of this program would be in the magnitude of \$800,000 over the initial two-year period.

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Members of this Mission, particularly Mr. Cleo Shook, are available to work with Peace Corps Headquarters if needed, to develop the specific community action program referred to above and to negotiate the Peace Corps Project Agreement with the District Congresses.

COST BREAKDOWN

A. Logistic:

- Multiple use front end loaders @ \$7,500 each, or \$15,000 in each of six Districts - \$90,000
- (2) \$500 per year per Volunteer for special purchases over the two years - , 60,000

\$50,000 for 25 small boats including motors and spare parts - \$200,000

B. Non-logistic:

Estimated \$10,000 per volunteer for 2-year period - \$600,000

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Chapter 8 Chapter 8 POLICIES ON TAXATION, LAND AND HOUSING

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Taxation

The principal source of revenue for the Trust Territory Government is an annual appropriation from Congress, amounting to \$15 million in fiscal year 1963. The Trust Territory Government collected an estimated \$1.9 million additional from local sources. Of this, only \$250,000 were true tax receipts, the much larger remainder representing gross revenue accruing to the government from business-type operations (sea and air freight and passenger fares, utility charges, building rentals, medical and dental fees, etc.). Tax revenues for fiscal year 1963, geparated from the gross revenue data supplied to the Mission by the Finance Office of the Trust Territory Government, are as follows:

 Copra processing tax \$	187,854.45
Cigarette and tobacco tax	56,258.75
Excise tax	3,373.08
Trochus Royalty	3,057.00
Licenses, fines and court fees	5,030.36
. \$	255,573.64

In addition to these taxes collected by the Trust Territory Government, all the districts and many municipalities levy taxes on Micronesian residents. The resulting tax system is chaotic, with the Trust Territory Government, the District Congresses, and many municipalities frequently taxing the same <u>products</u> and assuming overlapping financial burdens for the same activities. One consequence is a distortion of trade and productive activity away from the most efficient channel.

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Therefore, the Mission recommends that the High Commissioner issue an order before the Micronesian Legislature is opened in 1964 along the following lines:

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1. All export taxes should be reserved to Trust Territory Government.

 All general and specific import duties reserved to Trust Territory Government with exception of items listed in 5.
 All import and export duties on trade within the Trust Territory should be eliminated.

All personal and corporate taxes on gross and net income as well as general sales taxes should be reserved to Trust Territory Government.

- 5. District Congress taxes should be confined to excise taxes on soft drinks, beer and liquor, cigarettes and tobacco, amusement taxes, business licenses and fees, vehicle registration and driver licenses and all other licenses and fees.
- 6. Municipalities should be permitted to tax and levy license

fees only as permitted by their District Congresses. The Mission calculated that such a rationalization of the tax structure at the rates now in effect would increase Trust Territory Government annual revenues by about \$90,000. Revenues would increase further if a moderate but general import tax were to be later imposed by the Trust Territory Government.

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The proposed rationalization of the tax structure would, of course, reduce district and municipal tax collections substantially. This is another reason for the recommendation made in the Educational Section of this report, that the District Congresses and Municipalities should be relieved for administrative and educational reasons of the remaining and confused financial obligations they now have for teachers' salaries. The Trust Territory Government is now paying more than 90 per cent of overall educational costs and it should defray the remainder too.

Table 19 summarizes the estimated loss in revenues and the relief from educational expenses by district, showing a net gain in every district.

TABLE 15

Estimated Revenue and Expenditure Impact of Proposed Tax Rationalization by District. *

tor a constant	Changes in Total Tax Revenues due to their shift from District Congresses to TT Govt.	Changes in burden of education costs.	Net changes in revenue available for non-educational activities.	
T. T. Govt.	+90,000 **	+215,000	-125,000	
DISTRI	TS a tolthe joddere. Ats	ent de local de	and an even safety	
Marshalls	-46,000	- 52,000	+ 6,000	
Palau	-10,000	- 25,000	+ 15,000	
Ponape	-15,000	- 32,000	+ 17,000	
Marianas	-14,000	- 53,000	+ 39,000	
Truk	-10,000	- 43,000	+ 33,000	
Yap	- 5,500	- 10,000	+ 4,500	
* Based on	FY 1963 revenues			

** Excluding district copra taxes, which would be cancelled.

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Thus, for a net increase in annual cost of \$125,000, the Trust Territory Government could integrate and simplify (with resulting savings in administrative costs) its educational program as well as lay the groundwork for increased revenues in the future which hopefully would some day reduce the subsidy demands on the United States.

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The Trust Territory Government now carries in its tax system a 15 per cent "processing tax" on all processed goods. In fact, it is levied only on copra (there is a separate "royalty" on trochus), and it has been specifically waived on handicraft. This tax provides an undesirable disincentive to manufacturing production of all kinds (the Mission was told this several times on its trip around the Trust Territory), and the Mission recommends that the term "processing ter" be iropped and that the 15 per cent tax on copra be retained simply as a "copra tax".

Copra is heavily taxed at all three levels of government, and this too inhibits further production of the principal cash product by lowering the cash return to the producer. District and Municipal taxes on copra will automatically be eliminated by the proposed general reform of the tax structure, and as alternative services of local tax revenue are developed, the Territorial copra tax might also be eventually eliminated. In the meantime, however, this copra tax should be retained as the only substantial source of funds for allocation by the Council of Micronesia.

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The Mission feels that the consideration of a moderate tax on salaries and wages and a moderate income tax on chartered companies and unincorporated businesses might be advisable in the fairly near future. Later, if the U. S. Congress were to agree to a "return" of the proceeds of the Federal Income Tax collected from U. S. citizens in the Trust Territory similar to the arrangements with American Samoa, then the Trust Territory could levy a comparable income tax rate structure. The chief advantage would be developing greater experience and responsibility in the Territorial Legislature through the exercise of having to appropriate the expenditure of larger revenues. (However, there might be opposition in the U. S. Congress to such an arrangement as long as the U. S. Congress is directly appropriating large income for the Trust Ferritory Government.)

With the exception of Saipan "Municipality", the chartered municipalities of the Trust Territory each have tiny revenues composed of miscellaneous taxes and fees on all levels, most of which are used to pay the salaries of the elected magistrates (Mayors), secretaries, treasurers, and numerous councilmen. There is a justified dissatisfaction on the part of the more articulate villagers that they, who are on the margin of subsistence, are being taxed by this "American-imposed" municipality unit which serves little or no function but to pay salaries to village leaders investing little time in making decisions that they previously made free as a public service. (In fact many of the municipality officers outside the district center municipalities go out and collect taxes when their salaries have to

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be met).

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Given this situation as well as many other factors, the Mission recommends that the District Congresses, which will control all municipal taxation under the recommendations made here, assume the financial responsibility of paying only one salary in each municipality to the fulltime Magistrate, elected by the voters of that municipality as usual. (An alternative would be for this same salary to be paid by the Trust Territory Government through its District Administration so that the municipal magistrate would be the representative of the Trust Territory Government. Either alternative would be preferable to the existing situation.)

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The Marianas District represents a special case due to the fact that Saipan, with 82 per cent of its population, was uniquely organized under the Navy administration as one municipality and it collects large tax revenues (about \$80,000 annually excluding business type operations). Last year, a new Marianas District Congress was superimposed on this municipality at the suggestion of the Trust Territory Government in order to bring about a structure of government comparable to the other district. Sources of revenue available to the new Marianas District Congress are extremely limited and a tax tug-of-war is developing between the Municipality and the District Congress. In the opinion of the Mission, with which the High Commissioner informally expressed full agreement, the same Proposed rationalization of the tax structure and educational administrative burden should apply in the Marianas. Possibly it should be accom-Panied by a division of the large Saipan Municipality into several smaller

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illage municipalities comparable to the municipal organization in the rest of the Trust Territory, but if politically difficult, this division is not esential.

In-chartered "municipalities" cannot levy money taxes - which is one mason many villages have refused to be chartered - but local taxes of abor services are common in Micronesia. In the extreme case of Yap, men metimes must work more than half the time on community projects. The must Territory Government has itself encouraged the use of this "free" abor on government construction projects and community development proects. Yet in fact reliance on labor taxes often represents considerable perifice for the Micronesians who must neglect their food cultivation mi copra processing. Moreover, the productivity of the "free" labor is mry low due to high absentceism and low "esprit de corps", which may mise related project costs and eliminate the "savings" from use of such abor. Therefore, the Mission recommends that the T. T. Government study this problem and formulate policies as to where they should continue buse free labor and where they should pay some compensation to the allegers, preferably on a unit piece work basis similar to the system " construction piece work rates developed in Palau with private contrac-

The grand total of all municipality tax revenues (excluding commercial perations and labor taxes) now collected in the Trust Territory is Mughly, based on preliminary FY 1963 data, about \$65,000 excluding the perial case of Saipan and about \$145,000 including Saipan. Under the

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Mission's recommendation, these would be integrated (after eliminating intra-territorial import and export taxes) into the tax revenues of the six Districts which would then be able to increase their grants-in-aid to municipalities for approved municipal projects in addition to paying Magistrate salaries.

TT-B-8

In conclusion the Mission believe based on its survey, that the entire set of recommendations outlined in this section would move toward a rationalized tax structure more conducive to the Trust Territory's over-all economic development and permit the needed integration of educational funding and administration.

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The archaic and complicated communal land tenure systems of Micronesia, which as previously explained, seriously encumber its political and economic development, make essential the development of a Land Policy by the Trust Territory Government. The need for such a policy is intensified by the widespread confusion and legal disputes over individual and communal land titles and over what land is in the public domain (which affects the homesteading program). Land ownership in Micronesia is an acutely sensitive issue, it representing in a subsistence economy the only form of social security. The formation of a land policy that will meet the needs of immediate situation and ease the longer run

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transition to the modern world is a difficult task, but the Mission and believes that the broad guidelines should be as follows:

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1. First and completely basic is the need for an accurate land survey and registration throughout the Trust Territory.

Although a network of primary controls was previously established by the U.S. Army, it would be advisable if the U.S. Coast and Geodetic Survey in the Department of Commerce were to establish an accurate triangulation network of secondary controls using electronic surveying equipment. This would not be inexpensive, the job probably requiring one to two years work by three or four teams using considerable equipment. This step is not absolutely essential but it would avoid the future problems and disputes that have plagued land matters in Guam where this step was also cmitted.

Next all land parcels, whether owned by individuals, clans or the government, should be surveyed and registered on maps. It is estimated that this job would require the full-time equivalent of one trained Micronesian team working in each of the six districts from two to four Years.

2. Clan homesteading of "public domain" in order to correct without more delay previous injustices of the German and Japanese administrations, could be permitted but with a special clause reserving for the government the right to subdivide the land at a later date among the individual family heads of that clan.

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3. After completing the general survey and registration, the Trust Territory Government should commence a gradual and long-term program to demonstrate to the members of the clans the advantages to them from individual rather than communal land tenure. The long-term objective would be legislation by the District Congresses providing for division of the clan lands when a majority of the clan members so opted. In the interim the policy of leasing clan lands to individuals could be encouraged since it is a policy that would be acceptable without too much difficulty in most of Micronesia.

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4. Other appropriate methods of working toward the individual land tenure objective can also be developed -- e.g., the conditioning of mortgage credit to individually owned land parcels, and the levying of a general land tax in money.

5. The District Congresses should also be asked (and guided) to develop legislation simplifying land inheritance and local land tenure systems.

6. Both for the immediate and the longer run situation, the Mission recommends that the homesteading regulations of the Trust Territory Government be made more flexible. The low existing acreage limits on homesteading tend to perpetuate subsistence utilization of the land, and the economic development of Micronesia would be fostered by having fewer people receive larger parcels of land that would permit them to engage in commercial farming.

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HOUSING

Possibly the most shocking sight in the beautiful islands of the Trust Territory is that of the widespread corrugated iron slum shacks that go under the name of housing. The problem is acute in the semi-urban district centers and on the congested island of Ebeye where live the Micronesian laborers for the Kwajalein base. The Mission does not recommend any givesway housing program for the Trust Territory but it feels that the following elements of a housing policy are appropriate, and their cost has been included in the Mission's estimate of capital requirements.

1. In the very special case of Ebeye (where the crowding and unsanitary conditions helped spread a disastrous polio epidemic last year), there should be a housing program to replace virtually all the houses on the island which should be in conjunction with the installation of the water supply and sewage systems provided for in our Public Works program. However, the cost of the housing (concrete block) could be repaid by the Ebeye residents over a 20 year period, even allowing for a modest interest charge. The cost of such a general housing replacement program on Ebeye should be approximately \$400,000, and should be administered along with other programs outlined below by a Housing and Town Planning Unit at Headquarters.

2. This Unit should establish the urban plans, zoning ordinances and minimum building codes that are urgently needed in the more populous district centers such as Moen in the Truk District.

3. The Housing Unit should also organize the commercial purchase,

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stocking and selling of critical construction materials, primarily lumber and cement, to enable private individuals to replace and improve their own housing. The building supplies fund should be \$450,000 for maximum impact on housing throughout the territory. The private trading companies are reluctant for many reasons to undertake this business, but it is critically needed. Once started by the Trust Territory Government, it should be possible at a later date to persuade the trading companies to take over this operation.

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4. The Housing Unit should be prepared to lend funds on a longterm, low-interest basis for a housing development in Garapan on Saipan (\$300,000 including utilities and access roads), and in Moen on Truk (\$50,000 to start).

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C. Capital Requirements for the Development Programs

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The capital requirements for the development programs recommended in the various sections of this report are summarized below according to the territory wide activity and by each district. In the classification by districts, those activities which did not lend themselves to an areal distribution are classified under the heading "territory wide". School construction costs were distributed on the basis of projected school enrollment because detailed information was not available to plan for schools on an individual location basis. The relationship of these capital investments to the objectives of each of the programs are discussed under the relevant program sections.

Each of the tables identifies what is termed as an "optimum" and "minimum" program. The former is the maximum level of capital investment that can be realistically sustained in the 4 year period from FY '65 through FY '68 to achieve as rapidly as possible the desired goals for political, economic and social development. The latter is considered to be the minimum level of capital investment mecessary to assure achievement of the political objectives but involving a less rapid rate of economic and social development.

The minimum level rather than the optimum levels of capital funding would result in the following program changes:

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Table I

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FY '65-'68 Capital Requirements for Development Programs

(by function) (In thousands of dollars)

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Constantes The Street	Optimum	Minimum	
Education	\$ 9,944	\$ 8,088	
Public Health	2,384	2,184	
Agriculture and Fisheries	550	450	
Economic Development Fund	5,000	3,000	
Public Buildings	400	400	
Public Safety and Judiciary	910	460	
Sea Transportation	1,257	1,337	
Air Transportation	200	200	
Communication and Radio	2,700	1,200	
Public Works and Utilities		and the second second second	
Airports	4,235	2,535	
Harbors	1,300	1,300	
Water Supply	1,545	1,545	
Roads	2,655	1,400	
Sewage Systems	745	545	
Electric Power Systems	1,093	893	
Employee Housing	1,190	1,190	
Other	1,379	1,128	
General Administration	500		
Equipment Replacement	2,500	1,935	
Housing Assistance	1,200	800	

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Table II .

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FY '65-'68 Capital Requirements for Development Programs By Districts (In thousands of dollars)

265) July 20 (37)

Marianas District	<u>Optimum</u> - 1,074	Minimum	
Marianas District			-
Mar Tanas Dibor 100			
		1 0	
Schools \$		\$ 873	
Sub-hospital	· 100	100	
Micronesian Legislative Offices	100	100 -	
Court House	40	40	
District Congress Building	50	50	
Roads Repair	35	35	
Power Plant Overhaul	98	98	
Employee Housing	160	160	
Ammunition Cleanup	200	0	
Equipment Replacement	. 85	85	
Garapan Housing Development (utilities and roads) 300	300	
	2,242	\$- 1,841	
	2,272	φ 1,041	-
Marshalls District	1		1-5
Schools \$	2,585	\$ 2,103	-
Court House	40	40	
District Congress Building		50	in the second
Ships and Warehouses	266	266	
Airport and Water Supply System	1,450	450	
Ebeye Water	245	245	1.1
Ebeye Sewage	150 .	150	2.81
Sewage System .	350	150	
Water Treatment	- 35	35	11.4
Road Improvements	90	90	
Power Expansion	60	. 60	
Employee Housing	360	360	
Reefer	10	10	
Ammunition Cleanup	- 50	0	
Island Sub-centers at Jaluit and Wotje includes	The second second		100
sub-hospital, dock and warehouse	954	954	
Equipment Replacement	300	200	
Housing Lean Fund	400	250	
\$	7,395	\$ 5,413	1.24

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	Optimum	Minimum
Palau District	and the Orthern	Minemah
Schools Sub-hospital Entomology Laboratory District Congress Building Ships and Terminal Facilities Airport Water Supply Roads Sewage Extension Employee Housing Move POL Yard Rehabilitation or Public Works Area Equipment Replacement	\$ 1,084 100 50 320 1,200 180 575 35 170 40 25 300 \$ 4,129	\$ 882 100 50 50 320 500 180 575 35 170 40 25 300 \$33227
Ponape District	190	
Schools Hospital District Congress Building Court House Airfield Boat Channel Dredging and Ships Water System Rehabilitation Road Improvements Sewage System Power Plant Employee Housing Kusaie Public Works Equipment Replacement	<pre>\$ 1,631 604 50 40 1,585 145 285 1,020 110 600 170 35 280</pre>	\$1,326 604 50 40 1,585 225 285 320 110 400 170 35 280
2 store Routing	\$ 6,635	\$5,510

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Optimum Minimum Truk District \$ 2,854 2,321 Schools 820 Hospital 820 200 100 Sub-hospitals 50 50 District Congress Building 40 40 Court House Ships and Warehouse Facilities 295 295 Water Supply and Storage 350 350 320 120 Roads . 65 65 Enlarge Sewage System 185 185 Rebuild Power System 170 170 Employee Housing Replace Public Works Fuel Line 35 35 420 320 Equipment Replacement 50 50 Housing Loan Fund for Moen \$ 5,854 \$ 4,921 Yap District \$ 582 Schools 716 \$ 200 100 Sub-hospitals 50 50 District Congress Building Ships and Warehouse Facilities 231 231 1,300 1,300 Harbor 450 450 Water System 615 340 Roads 35 35 Sewage System 150 150 Electric Power 160 160 Employee Housing 30 30 Telephone System Equipment Replacement 250 250 \$.4,187 \$ 3,678

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Minimum Optimum COSE Territory Wide icared In the sourcesing a 280 280 Dispensaries 50 Units Agricultural Stations 500 400 3,000 5,000 Economic Development Fund 300 750 Jails and Police Stations 200 200 Purchase of DC-4 1,200 2,700 Communications 500 865 Central Construction Equipment Pool Capital for Central Supply Fund 500 500 Capital for Building Supplies Fund (private housing) 450 200 ton works with to parallel work to was to the total \$11,245 \$6,580

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Marianas District

The \$200,000 cost for clearing the northern end of Saipan of undetonated ammunition is eliminated in the awareness that this expenditure can be postponed but not indefinitely.

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Marshalls District

The airport would be rehabilitated at a cost of \$100,000 rather than replaced. Although eventual replacement will be necessary, the rehabilitation work will permit continued use of the facility for a few years. The optimum plan contemplated using the new airfield for water catchment, but the present airport is not suitable for this purpose.

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A separate water system will need to be constructed at a cost of \$350,000, which is therefore included in the minimum size program. With a smaller supply of water from the separate system, the scale of the sewer system is reduced by \$200,000.

The capital for the housing loan fund is also reduced by \$150,000.

Construction equipment acquisition is reduced by \$100,000.

Palau District

By building the airport to lower standards, the construction cost can be reduced by \$700,000. However, this lower quality will require a larger maintenance program to keep the airport in operating condition.

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Ponape District

The road program is reduced by \$700,000. This will require placing more reliance on water transportation and the channel dredging activity is increased by \$80,000 to provide better water access to all parts of the island. The optimum program provided for replacing two electric power generators. One generator can be overhauled for \$200,000 less than it can be replaced.

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Truk District

Part of the road construction program is deferred and the acquisition of construction equipment is reduced by \$100,000.

ffectively administration and settinger of that is, the

Yap District

The road interconnection to Mop island has been eliminated to reduce total road construction costs by \$200,000.

Territory-wide

 The minimum program provides \$100,000 less for agricultural station requiring a cut-back in the construction of certain facilities on existing agricultural stations.

 The economic development fund would be limited to \$3 million under the minimum program. Unless additional private capital can be obtained, the reduction will result in deferring some development projects.
 The \$450,000 reduction in the minimum program for jails and police

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stations would require continued use of certain sub-standard facilities through 1968.

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Annual Funding Requirements

Three criteria were used to make a tentative distribution of the optimum capital investment program over the four years from 1965 to 1968. These were: (1) the relative urgency of providing the public services, (2) the attainment of a sustained economic impact from the investments over the four years, and (3) the capability of the government to effectively administer the program - that is, the relative lead-times of the different classes of capital investment. Based on these criteria, the annual investment requirements are summarized in the following table, along with the related operations expenditures.

and the second second second		(In Millions)		
- Gritzlerr acteista	1965	, 1966	<u>1967</u>	1968
Capital investments	10,0	14.0	12.0	5.5
Operations	14.6	16,6	19_1	20.8
Total	24.6	30.6	:31,1	26.3
Less Local Revenues and	1.0	1.0	1.1	1.1
Other Receipts	Mail grows		2 (Margarian)	diata'i j

Net Federal Financing Required 23.6 29.6 30.0 25.2

On the basis of these projections it is recommended that the authorization for the Trust Territory be raised to \$23.5 million in 1965 to \$29.5 million in 1966, \$30 million in 1967 and \$25 million in 1968.

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PART III

ADMINISTRATION OF THE TRUST TERRITORY

This part will deal in detail with the present organization of United States administration of the Trust Territory, its problems and the steps necessary to improve its operations to pave the way for implementing the recommendations in Part II.

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III-A

A. Authority of the Trust Territory government

The current government has been created under the authority of the trusteeship agreement approved by the Security Council and a Joint Resolution of the Congress in 1947. The agreement does not specify the machinery to be used by the United States as the administering authority to govern the territory. Article 3 of the agreement simply gives the United States plenary powers of "administration, legislation, and jurisdiction" subject only to the provisions of the agreement which generally deal with the development of the territory, the rights of its citizens and the United Nations and the maintenance of peace and security.

On July 18, 1947, the day he approved the Joint Resolution, the President issued Executive Order No. 9875 which provided for an interim administration of the Trust Territory under the Secretary of the Navy, pending the enactment of an appropriate organic act by the Congress of the United States. This order simultaneously terminated the military government which was established for the territory when the islands were wrested from Japan.

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h the same day in a public statement, the President expressed his intention a transfer the civil administration of the Trust Territory to a civilian gency at the earliest practicable date. This transfer was made eventually b the Secretary of the Interior on June 29, 1951, by Executive Order b. 10265. Subsequently, the administration of Saipan and Tinian in the arianas was transferred back to the Secretary of the Navy by Executive her No. 10408 of November 10, 1952, and the administration of the rest of the Mariana Islands, except Rota, was similarly transferred by Executive her No. 10470 of July 17, 1953. On May 7, 1962, by Executive Order h. 1021, the responsibility for the administration of civil government all of the Trust Territory was again placed in the Secretary of the herior.

Mugh several organic acts for the territory were introduced in the Conress in the late 1940's and early 1950's, the Congress has taken no withon on the matter. It has, however, confirmed the authority of the rust Territory government with two enactments. A joint resolution of the Congress, approved August 8, 1953, continued the then civil adminisrution of the Trust Territory to June 30, 1954, on the assumption that rending organic legislation would be enacted before the latter date. In such organic legislation had been enacted, another measure, Public a 451 of the 83rd Congress, to provide for the continuance of the Trust rutory civil administration was approved on June 30, 1954. The 1954 a merely provides for the continuance of an interim civil administration was established by Executive order of the President. Section 1

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III-A

of this measure states:

"That until Congress shall further provide for the government of the Trust Territory of the Pacific Islands, all executive, legislative, and judicial authority necessary for the civil administration of the Trust Territory shall continue to be vested in such person or persons and shall be exercised in such manner and through such agency or agencies as the President of the United States may direct or authorize."

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The foregoing constitutes essentially all that Congress has provided for the civil government of the Trust Territory. The kind of civil government -its form, power and authority, design of the administrative and legal machinery, etc. -- which may be established is left to administrative discretion. Beyond its broad delegation to the President, Congress has acted to place an annual ceiling -- currently \$17,500,000 -- on the appropriations for the Trust Territory and annually to review and enact those appropriations.

As is noted in the foregoing paragraphs, the President has been given broad authority over the civil government of the Trust Territory. This broad authority has been delegated alternatively to the Secretary of the Navy and the Secretary of the Interior. In his delegation to the latter, first in 1951 and currently under Executive Order No. 11021, the President made the Secretary of the Interior fully responsible for the administration of civil government in all of the Trust Territory. All executive, legislative, and judicial authority necessary for such administration are granted to the Secretary who may redelegate the same to appropriate officials under his jurisdiction.

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No provisos were contained in the 1951 and 1962 delegations, and both pertain to activities in the Trust Territory affecting the foreign policy of the United States rather than to the authority over the civil administration. One relates to the authority, which the President reserves to himself, to close for security reasons parts or all of the Trust Territory. The other provides that the Secretary of the Interior shall keep the Secretary of State currently informed of activities in the Trust Territory affecting foreign policy of the United States and shall consult with the Secretary of State on questions of policy concerning the Trust Territory which relate to foreign policy, and that relations between Federal agencies and organs of the United Nations regarding the Trust Territory shall be conducted through the Secretary of State. Thus, just as Congress has not imposed restrictions on the President for the administration of the Trust / Territory, the President did not impose any restrictions in his basic delegation to the Secretary.

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However, the 1951 order referred to a memorandum of understanding between the Navy and Interior which the President approved on September 23, 1949, and directed the two departments to effect the transfer to civilian control in accordance with the memorandum. The memorandum provided for the appointment of a civilian High Commissioner by the President to serve, first under the Secretary of the Navy in 1950 and then under the Secretary of the Interior when control was transferred. The remainder of this memorandum isalt with the replacement of military with civilian personnel, exchange of information and transfers of property. Amendments to the memorandum

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provide for military control of the entry of persons and vessels into the Trust Territory.

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Until August 1962, even United States citizens and flag vessels and aircraft were not permitted to enter the Trust Territory without the permission of the Navy. At that time, the President directed that only applications for entry of aliens and foreign flag ships and aircraft may be vetoed by the Navy. As the latest agreement between the Department of the Interior and the Department of the Navy in accord with the President's directive only went into effect on July 1, 1963, it is too early yet to draw any conclusion as to the implications the new arrangements may have on the administration of the area.

A month after the issuance of the President's order in 1951, the Secretary of the Interior issued his own Order No. 2658 to "delimit the extent and mature of the authority of the Government of the Trust Territory" and to prescribe the manner in which the relationships of the Trust Territory government with the Congress, Department of the Interior, other Federal agencies, foreign governments, and international agencies shall be conducted. Essentially, however, the Secretary's order again broadly delegates to the High Commissioner all executive authority for the government of the Trust Territory to be exercised under the "supervision and direction" of the Secretary. It also provides that "judicial authority shall be independent of the executive and legislative powers."

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Subsequently, Department of the Interior Order No. 2812 of April 6, 1956, required Washington clearance with respect to the certain actions of the High Commissioner. It provided that the High Commissioner, in the exercise of his authority in the Trust Territory, shall obtain the approval of the Secretary of the Interior (a) of any proposed new Trust Territory law or regulation or amendment to an existing law or regulation which embodies important changes in policy, and (b) of any significant change in the budget as approved. The latter includes the transfer of funds between programs or between operating and construction funds, and the expenditure of local revenues in excess of the amount estimated in the budget as it was justified to Congress.

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In much of its administrative relationships with the Department of the Interior, the Trust Territory government now deals with or through the Office of Territories in that Department. This office is headed by a Director whose major responsiblity is to serve "as the principal staff advisor to the Office of the Secretary of the Interior" on territorial matters. He initiates or reviews major policy and program proposals and broadly directs the implementation of policies and programs approved by Secretarial Officers (i.e., the Secretary, Under Secretary and Assistant Secretaries). While the office does administer Canton and Enderbury Islands, Jarvis, Baker, Howland, and Palmyra Islands, its main function is to provide administrative and liaison services for the larger territories.

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Department of the Interior Order No. 2658 provides for certain specific relationships between the Office of Territories and the Trust Territory government. Section 3(c) states in part that "with freedom to consult directly with the Secretary (of Interior) when necessary, the High Commissioner of the Trust Territory shall normally communicate with the Secretary of the Interior through the Director of Territories." Paragraph (d) of the same section provides that, in dealing with Federal agencies outside the Department of the Interior on other than routine matters, initial contact shall be made through the Office of Territories. Thereafter, direct contact may be maintained by the Trust Territory, but the Office of Territories must be kept informed of significant developments. Thus, though it is evident from a review of the various sources relating to the authority of the Trust Territory government that it is fully subject to the control and direction of the Secretary of the Interior, it is equally evident that the Office of Territories is not in the line of command of this relationship.

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B. Administrative relationship with Washington

As indicated in the preceding paragraphs, Washington has imposed a minimum of restraints on the administration of the Trust Territory by the High Commissioner. Congress has not provided for a government of the territory except to authorize the continuation of the present one which was established by executive action. Similarly, delegation orders issued by both the President and the Secretary of the Interior have provided hardly any substantial restricting policies on the administration of the Trust Territory by territorial officials.

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While under optimum conditions such lack of administrative restrictions might be desirable from an administrator's point of view in that it would provide for administrative flexibility, the fact is that during the past years this minimum of supervision and guidance by Washington has fostered the development of territorial government machinery which does not readily respond to policy changes prescribed by Washington.

Responsibility for any problems resulting from the present situation cannot be focused on any one cause. Over the years the Trust Territory government has learned to function without significant guidance from Washington.

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With only three territories remaining under the international trusteeship system, international pressures for the United States to meet her commitments under the trusteeship agreement will markedly increase aring the next few years. Public interest in the territory will also continue to increase as it has increased during the past year since the relaxation of entry controls into the area. Further, Washington is beginning to respond to pressures to prepare the Micronesians for participation in the world of the Twentieth Century. Congress has recently doubled the substantial upgrading of public services for the Micronesians. The next isw years of the administration of the Trust Territory accordingly will be subjected to more intense examination by both national and international interests.

b protect fully the interest of the United States during those critical years, Washington must provide more supervision and direction over the administration of the Trust Territory. It not only must provide general plicy guidance, but also must establish specific guidelines which the territory must follow if the recommendations in Part II of this report are to be effectively implemented. Accordingly, the Mission recomtends the following with respect to the working relationships between "schington and the Trust Territory government:

Mrst, the Task Force or some similar group should continue to serve as a program and policy advisory group to the Secretary.

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The Task Force consists, at the Assistant Secretary level, of representatives from Federal agencies most concerned with the Trust Territory -the Department of State, the Department of Defense, the Department of Health, Education, and Welfare and the Department of the Interior. Observers from the National Security Council and Bureau of the Budget are also included in the group.

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The Mission believes the Task Force provides a necessary mechanism not only for calling to the Secretary's attention the effect of Trust Territory programs and policies on the agencies it represents but also for involving those agencies on a somewhat continuing basis in Trust Territory matters of concern to them. A "master plan" of priority programs such as that represented by the recommendations of the report, should be reviewed by this group for appropriate recommendations to the Secretary of Interior. It would review periodically with the High Commissioner and appropriate officials of the Office of Territories the status and progress of programs contained in the "master plan" to ascertain that pre-set goals and objectives have not been altered. Where such alterations have occurred, or should change in goals be desired, it would so advise the Secretary.

Second, an evaluation team should be organized to visit the Trust Territory preferably on an annual basis for the next few years. The primary function of such a team would be to ascertain by field inspections that programs are being implemented in accordance with the terms of reference

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approved by Washington. Secondarily, and only if it would not jeopardize the primary mission of the team, it would provide on-the-spot advice to officials and agencies of the Trust Territory government in accordance with the type of expertise found in the membership of the team. Thus, if a personnel expert is a member of a particular mission, he should be available to render assistance to the personnel staff of the Trust Territory government.

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The team would consist of persons who are individual experts in the various fields of public services which would be reviewed. The members could be either Government officials or private citizens and each mission need not consist of the same individuals. Though it would be very useful for the Task Force mentioned above to nominate the membership, the team should serve the Secretary of Interior. Copies of any team reports, hwever, should be made available to the Task Force for such consideration and action as it determines appropriate.

Third, the High Commissioner's legislative authority should be clarified and his legislative enactments should be approved by the Secretary. As noted earlier, Department of the Interior Order No. 2812 requires the High Commissioner to obtain Secretarial approval of new laws and regulations embodying important changes in policy. However, neither that order nor the Secretary's basic delegation, Order No. 2658, expressly gives the High Commissioner any of the legislative authority delegated by the President to the Secretary. Order No. 2658 only delegates

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submitted to the Bureau of the Budget indicated that the Department of Interior has been serving merely as a transmitting agency.

Fifth, Interior approval should be required for those departures from the Business Investment Code (proposed in Part II, Section A of this report) that would have significant impact on the Trust Territory.

Sixth, the appointment of the High Commissioner should be made by the Secretary of the Interior. It was earlier explained how the High Commissioner came to be appointed by the President. That appointment may be viewed as a subtle and indirect Presidential control over the management of the affairs of the Trust Territory. However, it is somewhat anomalous in view of the President's complete delegation to the Secretary of the Interior.

Further, while it is not usual to have Presidential appointees serving mder the supervision of other Federal officers, as far as the Mission can determine, the High Commissioner's appointment situation is now unique. We are not aware of any other case in which the President appoints an officer whose position is not specified in law and who has continuing operating responsibilities. The President's Executive Order No. 10265, incorporating by reference the memor andum of understanding which provided for Presidential appointment, has been superseded. The current delegation, in Executive Order No. 11021, does not refer to the office of High Commissioner and does not indicate any Presidential reservation of that appointment. Therefore, the only currently effective order relating

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executive authority to the High Commissioner. The Mission believes that mission should be corrected in an updating of those orders.

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The Mission also notes that since December 31, 1959, 10 new laws amending the Code of the Trust Territory have been promulgated by the High Commissioner of which only one was submitted for approval by the Secretary of the Interior. Three sets of regulations, apart from amendments to the Code, were adopted, only one of which had Secretarial approval. Without going into the question of which ones should have been approved, and while the list of promulgations does not appear too impressive (see Appendix A to Part III), it appears that the issuance of new laws and amendments is a function of such importance as to merit Secretarial approval in every instance. Accordingly, the Mission recommends updating the current Secretarial orders to require approval of all new laws and amendments except in case of emergency.

Fourth, the annual budgets of the Trust Territory should be given more intensive examination by the Department of the Interior. As the annual budgets are the primary implementing tool of new programs, it is recommended that the budgets submitted by the High Commissioner for presentation to the Congress be subjected to more intensive examination by the administering agency. Budget items which would affect any long-range program for the territory must be reviewed thoroughly for consistency with that program before they are made a part of the President's budget. A comparison of recent estimates prepared by the High Commissioner and those

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to the High Commissioner's office is Secretarial Order No. 2658 which is silent on the manner of appointment.

We believe this very unusual situation should be clarified, not only because of the doubts it raises but also because it is particularly important that the High Commissioner be completely responsible to the Secretary of Interior who has been charged with the administration of the Trust Territory. This will be most important during the next few important years. The Mission, therefore, recommends that High Commissioners be appointed by the Secretary of Interior as long as the latter official is held responsible for the overall administration of the Trust Territory.

(A draft of a new Secretarial Order to replace the current Orders Nos. 2658 and 2812 and of the above recommendations is attached as Appendix B to Part III.)

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C. Administrative organization under the High Commissioner

As noted earlier, the government of the Trust Territory is organized into a headquarters unit and six districts. The High Commissioner, as the chief executive of the territorial government, directly administers the headquarters unit in Saipan. A district administrator is the head of each district and is responsible to the High Commissioner through the Peputy High Commissioner.

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both headquarters and the districts are organized along functional lines. Headquarters, for instance, has a Director of Education, a Director of Public Health, a Director of Agriculture and Fisheries and a Director of Public Works. Similarly, there are counterpart officials in the instrict level who are subordinates of the district administrator. Thus, in all districts there are also department heads for education, public health, agriculture and public works. In addition, both headquarters and the districts have field activities. Pacific Island Central School and the Farm Institute in Ponape are examples of field activities which are operated directly from headquarters at Saipan. Field dispensaries and schools represent the most common type of field facilities which are run by the district centers.

In general, the organizational structure for both headquarters and the istrict administrations has been formed along basically sound lines. Invever, the territorial government has a most vexing problem of communimations between headquarters and the districts. When one considers the

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geographical distribution of the islands and atolls over an area covering over three million square miles, it is easy to appreciate the physical difficulties involved even working with the most modern of communication facilities. With the distances involved, face-to-face discussions between headquarters and field personnel and exchanges between districts are minimal. The district administrators only meet annually, for example. Throw in even a little confusion as to the allocation of functions between headquarters and the district organizations and one should not be surprised to detect feelings of frustration among many officials. An inquiry into this problem in one of the districts elicited this response from a district administrator: "It is difficult to communicate with headquarters, I have three dispatches now for which I have not received any reply. I don't know what they do with our inquiries. Maybe throw them in the waste basket." Another district administrator claimed he did not know what happened to his current (FY 1964) budget estimates since the district administrators' annual conference in July 1962. An assistant district administrator stated that headquarters had no confidence in them, referring to the staff in his district. How much of these beliefs are true . is beside the point. These and other similar instances point to the general problem of communication in the organization.

In a setting such as that which obtains in the Trust Territory administrative organization where geographical, technical, language and cultural considerations have vital roles, the development of effective communication media and devices becomes critical. Goals and objectives prescribed by

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headquarters staff must not only be understood but must also be accepted by the district personnel who are responsible for the realization of such goals and objectives. Adequate manuals of procedures, policy directives and especially staff conferences must be utilized if the organization is to develop any semblance of single-purpose mindedness.

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In this regard, the Mission was informed that the development of an integrated manual of procedures is being planned, incorporating therein procedures which have been developed on an intermittent basis. The Mission further recommends that a regular procedures-improvement program be adopted and that a middle-grade organization and procedures specialist be employed for the purpose. The Mission also recommends that the district administrators' conferences be held more often than once a year.

However, in the Trust Territory, the physical problems of communication and dispersal over a vast area, in the Mission's opinion, are further complicated unduly by an over centralization of authority at headquarters and a lack of appropriate delegation of powers to the functional departments. Essentially, the High Commissioner utilizes his department heads as staff officers. They have no real operating authority delegated to them and do not directly deal with or supervise their district counterparts. The latter are subordinate to and supervised by the district administrators.

Thus, the channels of communication from the district department head to his counterpart on even minor technical matters are most circuitous since

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they involve going through the district administrator and High Commissioner and their key aides in both directions. Since all directives and messages must pass through the High Commissioner's office and the district administrators, those points have a great bottleneck potential. The Mission also heard complaints that supervision of district department heads by district administrators, who did not understand the technical problems of the programs, resulted in arbitrary department budget cuts and unjustified transfers of funds. For whatever reason, there are some district department heads who believe they should be directly supervised by their counterparts at headquarters.

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The Mission agrees that there should be more direct communication between district department heads and their headquarters counterparts. We recommend that headquarters department directors be delegated the authority to take action and to supervise directly their district subordinates in technical and professional matters. This action should be taken quickly in those programs -- education, health and agriculture - which do involve a high degree of professional activity. Without such action, the channels of communication and authority will continue to be unduly complex and stymie effective operations.

This change should not totally remove those programs from the cognizance of the district administrators. They must still perform a coordinating role and provide for certain common services and logistics.

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In order to spell out the specific and orderly steps needed to achieve these objectives, it is further recommended that an organization and management specialist be sent to the Trust Territory on a short term contract (or detail) which could be financed from the President's Management Improvement Fund.

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D. Execution of the Master Plan

The Mission believes that in addition to the improvement of the United States and Micronesian personnel of the Trust Territory government dealt with later in Section G, a new approach to territorial administration is required if the Executive and the Congress want results. This should be the conscious effort to utilize the services of other Federal agencies or to contract out the implementation of the new and expanded programs recommended in this report. Based on its survey the Mission is convinced that results will be quicker and the overall and long-run costs of such a policy cheaper.

Recommendations for contracting the new and expanded capital and operations programs have been made in various sections of this report. It is worth listing here the more important of these programs and activities that should be contracted out to indicate the scope of this approach.

Program or Activity (or implementing personnel)

1. American elementary and secondary teachers

- 2. American physicians
- 3. Community action
- 4. Tropical agricultural research
- 5. Fisheries research

6. Quarantine

Contracting Organization or Agency

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State of Hawaii Department of Education

Medico

Peace Corps

University of Hawaii, School of Agriculture

Bureau of Commercial Fisheries and the Scripps Oceanographic Institute

U.S. Department of Agriculture

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7. Immigration

- Cooperatives and credit union specialists
- 9. Programming and Development Unit
- 10. Surface transportation (interdistrict) Surface transportation (intradistrict)
- 11. Air transportation

12. Vital statistics, and Public Health Laboratory backstopping U.S. Immigration and Naturalization Service

Cooperative League of U.S.A.

Private consultant organization

Competitive bidding by U.S. firms

Negotiated contracts with Micronesians

Federal Aviation Agency or new contract with Pan American by Civil Aeronautics Board

Public Health Department of Government of Guam

here has been sufficient exploration by the Mission to be reasonably sure of the general appropriateness, and in most cases the particular willingmess, of the suggested agencies and contractors to undertake those functions. Intract supervision will pose its own set of problems for the Trust lerritory government, but it can handle these problems more readily. To charge the Trust Territory government with the task of implementing with its own staff a relatively large and complicated program will not only involve many years' delay and much waste, but will saddle that government (and the United States) with the costs of permanently swollen bureaucracy messarily recruited in many cases without full qualifications owing to the pressure of time. The need for many of these contractual services will disappear as certain programs are completed and others are increasingly staffed by qualified Micronesians.

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E. Budgeting

The desire to bring education and a higher standard of living to the Micronesian, however strong it may be, cannot be fulfilled without adequate planning. Even a single individual pursuing this goal must face the necessity of careful planning -- financing must be provided, physical resources mobilized, labor applied and accomplishments evaluated. While the effective individual may follow the planning process without an overt consciousness, the effective large scale organization must include planning as an integral part of its operations as an overt rational process. For government organizations, the budget process, through its cycle of formulation, execution, and evaluation, has become a primary mechanism for planning.

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When budgeting was discussed with officials at the district and headquarters levels, the usual reaction was -- "The budget is too small." While this response would not be unexpected in almost any government organization, it was evident that most of the officials only thought of the budget in this marrow sense, i.e. -- an amount of money currently available for expenditure. Very few line officials thought of budgeting as a planning process through which a program is developed to make optimum utilization of whatever amount of funds were or could be expected to be made available.

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Heads of departments and district administrators seem to consider the formulation and execution phases of budgeting as two separate processes. Typical district department heads said they submitted a budget estimate

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in the spring and didn't hear anything further until the next June or July. Then, in most cases, the budget allotment received in June or July bore little relationship to the estimate submitted a year ago. Other than being accompanied by a ceiling on non-resident and Micronesian employment, the budget allotment was simply a dollar amount that could not be exceeded during the fiscal year. Line officials were not told which parts of their budget estimate submitted a year ago had been approved or disapproved nor were they given guidance on what to use the funds for. Headquarters made the allotments in a lump sum, and instructed the districts to show how the funds were distributed among its programs. The budget office at headquarters indicated, however, that the distribution of allotments by programs submitted by the districts to headquartors was primarily for information purposes and not for program control. Given these conditions, it is not difficult to see why effective planning has not been done through the budget process.

The lack of an effective link between the formulation and execution phases of budgeting and the lateness of allotment advice from headquarters (usually just prior to the beginning of the fiscal year) leaves inadequate time for district planning. In most instances, planning by the district department heads consists of figuring out where to add any additional personnel, if the personnel ceilings are greater than the current employment, and determining what would be left over to buy supplies after the salaries of all personnel were paid.

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This past year, when a Micronesian pay increase went into effect and increased personnel costs, the funds remaining for supplies and equipment in some departments were inadequate to support effective operations. Aside from the lack of appropriate planning to allow for the pay increases in the government's overall budget, line officials had not adjusted their programs to accomplish more limited amounts of work which may have required reducing personnel to provide funds for supplies and equipment so⁷ the remaining portion of the program could be carried on effectively. The operation of the public works departments, for example, were hindered by a lack of spare parts, but action had not been taken to reduce personnel costs so additional funds could be made available for purchasing spare parts.

The bifurcation of budget formulation and execution, and the allotment of funds on a lump-sum basis to the districts, has also left executive officials without a means of insuring that funds would be spent for the purposes for which they were justified. The department heads at headquarters could not through the budget execution processes insure that the program justified to the Congress was in fact being carried out. As an example the 1963 budget request presented to and passed by the Congress, indicated that \$300,000 would be used to establish a revolving stock fund for supplying the districts with FOL (petroleum and other lubricant). products. As of the end of the 1963 fiscal year funds still had not been used for this purpose.

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Anid these problems, it is of some encouragement to note that the deficiencies of the budgeting process have not gone unnoticed by the High Commissioner. On February 15 of this year he established a Budget and Fund Utilization Subcommittee consisting of the executive officer, programs officer, a special assistant to the High Commissioner in charge of construction projects, the director of property and supply, the comptroller and the budget officer. This committee was given responsibilities for reviewing budget estimates prior to their submission to Washington, evaluating performance in relation to the budget program, making recommendations on proposals for changing the budget program, and reviewing long-range plans and programs. The High Commissioner identified a number of current problems in budget preparation, reporting, program evaluation and auditing, long-range planning, and budget execution for the committee's attention.

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Several changes made in the accounting system and the allotment procedure during the last few months should also improve the budget process. A newly issued accounting manual provides for setting up a system of accounts which will produce information on the cost of each program and activity and more detailed information on unit costs. Unfortunately, the district finance officers' lack of accounting training may slow the implementation of the new system and limit its reliability. Only me out of the five district finance officers questioned said that he could set up the new accounting system without help.

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Headquarters also recently issued a new cost accounting system for construction projects and delegated to the districts the responsibility for cost accounting. However, the new system appears to be poorly conceived in that it requires distributing costs to 41 different object classifications. This amount of detail seems to be excessive without providing any useful end-product information. The public works departments at the district level indicated that they would have difficulty in distributing costs this finely -- the increase in paperwork would also be significant.

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To facilitate some of the actions already underway and to overcome other budgeting problems, the Mission recommends:

1. A qualified accountant should be employed by headquarters to assist the districts with their accounting. Most of his time is should be spent with the districts, preferably on a rotation basis so each district would be visited at least twice a year.

2. District finance officers should be given additional formal training in accounting. Short training sessions at headquarters can be used as a stop-gap measure, but if the incumbents are to remain in their positions, they need to have additional training outside the territory.

3. The cost accounting system for construction projects should be revised. A new system should be developed which will accumulate cost information on the same basis as detailed estimates are made for construction projects. The end product which the

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cost accounting system should provide is actual cost information which can be evaluated against the elements of the original construction estimate. Then, upon the completion of construction, actual cost information would be available for evaulation purposes and use on future estimates for similar construction. If certain object classification information is needed for other purposes, it should be obtained by coding vouchers.

As mentioned earlier, the High Commissioner, in a memorandum of March 6, 1963, recognized the need for improving the budgeting process. Although some specific changes have already been made, a general plan of the budget planning process has not been established. The following recommendations are made as a general outline for the process --

1. Preliminary budget estimates should be required in March, or 15 months before the start of the fiscal year in which the funds are to be used. Preparation of these estimates should be the primary responsibility of the headquarters staff. The districts should, however, be canvassed to identify any significant changes they expect to request in their next budget submissions.

2. Budget policy guidance and instructions for the regular budget request should be sent to the districts by May 1. If only a target amount is given to the districts as a guide for budget preparation, they should be asked to prepare a priority listing of programs or program elements which would be included or

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excluded if their target figure were increased or decreased by 10 percent. Very few of the district budget justifications are now based on workload data. Headquarters should insist on workload data to support budget requests. Districts should submit their budgets to headquarters by July 1. (When the Territorial Congress is given the power to participate in the budget review 7

3. As described in Part II, Section A, chapter 5, the Programming and Development Unit (to be established by contract) in headquarters will play a key role in the budget formulation process. It would provide direct staff assistance to the High Commissioner and would be responsible for the overall programming and budget coordination. In addition to evaluating the merits and soundness of individual proposals, the headquarters' review should identify program priorities. New programs requiring additional transportation, supply, public works and other auxiliary activities should be carefully coordinated to insure that adequate support will be available. As tentative conclusions are reached on a budget program, changes proposed by headquarters should be specifically identified by activities within each district, rather than a lump-sum amount for the district as a whole and should be discussed with the district administrator concerned. Material prepared for final decision making by the High Commissioner should contain a complete analysis, including the evaluation of the department heads and

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district administrators, of alternative program proposals.

The budget program request should be submitted to the Department of the Interior by September 1. Alternative program levels should be submitted to the Department for review as requested.

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4. The districts should be advised as soon as the budget request is submitted to Washington of changes in their programs. This will permit them to keep abreast of the planning program and to revise their plans as necessary.

In December, the headquarters will be advised of the programs and amounts that are to be included in the President's budget. Again the districts chould be advised of any changes affecting their programs.

At this time the districts should be requested to provide an apportionment plan by quarters (the first quarter should be broken down by months in case the annual appropriation bill is not passed by the beginning of the fiscal year) for those programs that require larger apportionments in some quarters than others. The Mission observed that the districts had to delay requisitioning needed supplies when apportionments did not allow for normal peaks in requisitioning. This problem becomes particularly acute when the annual appropriations bill has not been passed and the districts receive only monthly apportionments. Medical supplies

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and spare parts, which are used at a fairly uniform rate, are normally requisitioned the first month of each quarter. When the requisitioning is delayed by a month or two, programs are disrupted. The continuing resolution passed by the Congress, when final action has not been completed on the annual appropriation bill, is flexible enough to permit larger apportionments in the first month of the quarter to meet normal purchasing schedules. The headquarters should allow for the normal peaks in requisitioning when the quarterly or monthly apportionments are made.

5. The Department of the Interior should keep the headquarters advised of changes in the budget request as it moves through the Congress. Unless a significant change in program would be required as a result of nouse of Representatives action, the districts should wait until after the Senate has acted (by this time a reasonably accurate estimate can usually be made of the final program and amount that will be approved by the Congress) before taking further action to adjust their programs. If the budgeting process described above is followed, the headquarters and districts will have a planned program for the coming year available when the Congress takes final action on the appropriation bill. This program should be used by the districts to request apportionments from headquarters.

6. After apportionments are made and programs are implemented, the district administrators and headquarters should be furnished

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progress reports munthly or quarterly -- depending on the type of program. These reports should relate the work performed and the costs incurred with the workload and financial plans prepared during the earlier phases of the budget process. Data obtained from these reports should then be used for estimating purposes as the budget planning process begins again.

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If a process such as the one described above is used, to link the budget preparation, execution, and evaluation, the deficiencies noted earlier in the present operations can be corrected. In addition to changes in the process itself, several other changes relating to budgeting are needed.

Recommendations for immediate changes:

 Starting in 1965 all construction projects should be fully funded. The past practice of funding annually increments of buildings has been accompanied by inadequate estimates of total project costs and the stretching of construction over a period of years has increased costs.

2. Detailed cost estimates should be made on all construction projects. For large or complex projects this may require funding final design and engineering in one year and construction costs in a subsequent year. On other projects funds should not be apportioned for construction until final design and engineering has been completed.

3. The distribution of funds between capital outlay and operating costs as justified to Congress should not be changed

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without approval from the Department of the Interior. Changes in the distribution of funds among operating activities and separately programmed capital outlay items should be approved by the Department of the Interior unless the changes involve amounts less than 10 percent of the activity or project or \$50,000 whichever is the smaller.

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4. A fund should be established to finance emergency expenses such as epidemics, typhoon damage, repair of damage to ships, planes, and power and water facilities resulting from "Acts of God." Initially, the fund should be established at \$200,000. The uses of the fund during the past year should be presented in the annual budget justification as a basis for restoring the level of the fund to \$200,000.

5. Accounting for water, power, sewer and hotel operations in the districts should be handled on a business type basis as soon as the districts are capable of setting up the accounting systems. Since the government is the sole supplier of these services, this type of separate accounting is needed to determine accurately appropriate charges.

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F. Supply

The procurement of most supplies for the Trust Territory government is done centrally by headquarters. District purchases are permitted only for items costing less than \$75, except in the case of fresh food supplies for district institutions where no limits are applied.

It is estimated that a substantial portion of those supplies has heretofore been procured through the General Services Administration's San Francisco office. However, last June, the territory's Director of Property and Supply indicated that it would further expand its direct-vendor buying from non-GSA sources and rely on GSA sources only when it is in the territory's interest. Vendor buying generally does not involve the solicitation of sealed bids because of the limited number of suppliers but rather the obtaining of informal written quotations.

Again, in the area of supply, the remoteness of the territory and transportation difficulties loom large as sources of problems. Because of the length of its supply lines, the government must maintain a sizable inventory -- valued at \$900,000 on June 30, 1963. Most of the supplies are kept in the central warehouses in Saipan, but each district has a general warehouse, a medical supply warehouse (under the public health department) and a spare parts warehouse (under the public works department).

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Despite this effort, in every district visited a concern was expressed for the inadequate flow of supplies. In some cases, expensive equipment was idle because of the lack of spare parts. Hospital staff stated that medical supplies were short except in Saipan where the hospital "does not have too much difficulty as headquarters can always lend supplies to the district."

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Whatever the reasons -- distance or lack of funds for adequate stock -the supply system is vital to the success of the operation. With the complexities of supply in the Trust Territory, the operation requires professional management. The Mission also believes that a periodic outside review of the operation is necessary to insure that it is currently undated. Since the last such review was about five years ago, it is recommended that another review be made in the next year.

The Mission was advised that an inventory level of four to six months of supplies is necessary. This level appears reasonable in view of the length of supply lines with the increased activities underway in the government, the Mission recommends an increase of about fifty percent -about \$500,000 -- in the current supply inventory to meet expanding needs. Any further increases will depend on the overall rate of government spending and changes in levels of activities. The supply staff should be apprised of such changes well ahead of time.

G. Personnel

The Trust Territory has two classes of employees, those whose normal place of residence is outside the Territory (or conversely those whose residence in the Territory is attributable solely to their employment) and indigenous personnel. There were 241 of the former and 2191 of the latter as of June 30, 1962. The first group, consisting almost entirely of United States citizens, are employed under a grade structure and wage system which follows the Classification Act of 1949, as amended. Indigenous personnel are employed under standards and rates of pay prescribed in the Micronesian Title and Pay Plan. The three pay. schedules provided under this plan are (a) labor, crafts, and domestic work (annual salary range \$634-\$1,851), (b) professional, administrative, and protective (annual salary range \$520-\$3,785), and (c) senior professional and executive positions (annual salary range \$2,080-\$4,840). The government gives first opportunity in filling positions to qualified Micronesians. If none are available, selections are made through U.S. Federal Civil Service Registers with preference given to Guam, Hawaii, and San Francisco, in that order.

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The Trust Territory has pursued an active policy of replacing nonindigenous personnel with Micronesians. Since this policy was adopted, Micronesians have taken over 76 positions formerly held by non-indigenous staff members. Given an adequately trained supply of manpower, such a policy would be very desirable as a means of creating an increasing degree of local self-government in the area. However, while Micronesian

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employees seem to have met the minimum personnel qualifications for the positions they entered in terms of on-the-job experience, the Mission observed that their level of competence and performance was significantly below the level expected from non-indigenous personnel. We attributed much of this deficiency to the employees' meager educational achievement prior to their appointment. For example, a Micronesian administrative assistant to a district administrator, who was appointed to a position formerly held by a IGS-9 non-indigenous employee, had the following educational background: 4 years elementary school, 2 years intermediate school, and 3 months at the College of Guam during a summer session. When the employee was first appointed to this position he had only the minimum qualifications of 5 years on-the-job experience. In other cases, Micronesians who had had a good educational background were moved into advanced supervisory positions before they were capable of assuming the full responsibilities of the position. One department head at the district level candidly admitted to a member of the Mission that he needed additional experience before he adequately could supervise the non-indigenous employees under him.

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These accounts reflect a most urgent personnel requirement in the Trust Territory -- the need for adequate training of Micronesian personnel. If the native population is to make progress toward a greater degree of local self-government, there is an urgent need for more training, particularly in the area of professional and technical skills. Even with additional scholarships recommended in the education section of

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Part II of this report, it will take a number of years to meet the need for professional and technical skills. Micronesians are now filling most of the manual and clerical jobs in the government, but their productivity is relatively low. The government has relied heavily upon on-the-job training as a teaching mechanism for manual and clerical employees, but the effectiveness of this training appears to have been limited by inadequately trained supervisors and a lack of supplementation with formal training.

To strengthen the personnel system, the Mission recommends: 1. Micronesians should be placed in jobs held by non-indigenous personnel only when they are fully qualified and can meet appropriate standards of competence and performance. Qualification tests, similar to the U.S. Civil Service Commission's entrance examinations, should be developed and used to screen applicants for administrative, technical, and professional positions. A one-year probationary period should be established for Micronesians who replace non-indigenous personnel and immediate supervisors should be required to make a detailed evaluation of the Micronesian replacement's performance after nine months.

2. A formal training program in public administration should be established for Micronesians who are promising candidates for positions at the district administrator, assistant district administrator, and district department head level. The training could be provided through

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a contract with one of the United States public administration schools. An intensive three-month summer program at headquarters is suggested.

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3. The educational scholarship program for Micronesians should be expanded. (Detailed recommendations on this are included in the education section of the report, II-B-5.)

4. Because of the special needs in the area, the Micronesian medical practitioners should receive additional training not only at the East-West Center but also in the new program being worked out by the Hilo hospital in Hawaii. Although this additional training will still be short of. United States M.D. standards, it will increase the effectiveness of the medical practitioners who still have a vital role in the public health program of the Trust Territory.

5. Additional emphasis should be given to clerical and manual labor training and to the training of first-line Micronesian supervisors. Formal training which would supplement to on-the-job training is particularly needed. Evening classes taught by qualified United States personnel could be organized for this purpose and small bonuses paid to those employees who successfully complete them.

There is also a need to broaden the horizons of Micronesian employees. Micronesians are now appointed, with very few exceptions, to positions within their own districts. This practice tends to perpetuate parochialism which is already too prevalent in the Territory. The

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Mission recommends that Micronesian employees at the higher executive and supervisory levels should be offered and encouraged to accept positions in other districts as a means of getting more interaction among the people of the Territory.

With the additional responsibilities brought on by the new and expanded development program for the territory, several key positions at the headquarters department head level need to be upgraded. The Director of Education at the present time does not have direct responsibility for the operation of the school system. Earlier in the report the Mission has recommended that the Trust Territory government assume full responsibility for education and that the Director of Education have direct responsibility for the operation of the schools. Similarly, the responsibilities of the Director of Engineering and Construction (now called Public Works) will increase with the expansion of the construction program. The Mission specifically recommends that the following positions be upgraded because of the additional responsibilities:

	From	10	
Director of Education	IGS-13	IGS-15	4 hores the
Director of Public Works	IGS-13	IGS-15	erennets 2.1
Director of Engineering and			See See State

Construction IGS-14 IGS-15

The program recommended in this report envisions additional responsibilities, not only greater in scope but also different in character from those carried on by the present Trust Territory government personnel, even though the majority of these programs are to be executed on a

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contract basis. Therefore, a timely evaluation of the capabilities of the present staff to carry out their responsibilities should be made, and therefore, the Mission recommends that the Department of the Interior detail three qualified employees to the High Commissioner for service as a personnel evaluation committee.

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At the present time the Trust Territory government does not have a program for periodically rotating its professional staff to stateside jobs. Periodic rotation to the United States seems to be a desirable method of overcoming the limited educational and training opportunities for professionals in the territory. A number of the U.S. professional staff at headquarters and in the districts have served in the territory tor over five years without a stateside rotation. While this record of devotion to duty is commendable, the need to periodically widen one's horizons and gain additional training should not be overlooked. The Mission recommends that professional employees who have served four years or more in the territory be requested to take a stateside position for a two-year period. The Department of the Interior should have the responsibility for finding appropriate positions for these personnel.

Traditionally, one of the sorest points in the territorial administrations of the United States has been the differences in treatment accorded nonindigenous and indigenous personnel. This problem is already becoming apparent in the Trust Territory and will grow as Micronesians are trained for, and advance into more responsible positions. The evolution toward increasing self-government also requires the elimination of

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distinctions and the appearance of treating Micronesians as second-class employees in their own government. Finally, since it is anticipated that Micronesians may soon have free access to the United States, the government must be able to offer competitive salaries and employment conditions to its citizens who otherwise would be attracted to United States jobs. A significant difference between the professional salary levels in the United States and Micronesia when full access to the United States is offered would undoubtedly result in a loss of urgently needed Micronesians who have full professional training. This must be avoided. The objective then, should be to work toward a gradual change in the personnel program to achieve a single system. To achieve this goal, it is recommended that:

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First, a new schedule D should be added to the existing Micronesian pay plan. This schedule would be reserved for use only by Micronesian senior professional employees and officials who meet every qualification requirement for comparable grades in the Federal civil service. This new schedule would be the link or bridge between the existing Micronesian pay plan and the Federal employees' pay plan. Accordingly, any grade in the new schedule would begin about the top step in the present Micronesian pay plan and end about the beginning step of the comparable grade in the General Schedule. The new schedule D should have not less than six steps nor more than ten. For example, GS-9 grade is equivalent to C-1 grade in Micronesian pay plan. The beginning step for grade D-1 in the proposed schedule D would start at Step 2 of C-1, i.e., at \$3,265 per annum, and

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would increase annually to a top step which is the beginning step of GS-9 in the GS scale, i.e., to \$6,675 per annum.

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It is intended that the plan would not only be a transitional schedule but would also serve as an incentive for Micronesian employees, both present and future, to obtain the necessary training to meet professional standards. Admission to the plan therefore should be based on a rigid examination and qualification system. No admission should be made unless the entrant has met every qualification standard requirement in the Federal service for comparable grades. The use of experience in lieu of academic credits for grading entrants should be tightened as much as possible. The new plan would also be used for promotion of persons with exceptional ability. A board should consider crede of this type before the person is permitted to come under the proposed pay schedule.

Second, action should eventually be taken to change the status of U.S. employees from Federal to territorial employees depending on the availability of qualified Micronesian replacements and the anticipated ability to recruit non-Micronesians without offering Federal employee status. U. S. employees employed by the Trust Territory government at the time of the change should be permitted to continue participating in the Civil Service retirement system as long as they continue in the employment of the Trust Territory. However, U. S. employees hired after this date should participate in social security system and should not be eligible for the Civil Service retirement system.

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Third, action should be taken to give Micronesians sick leave of 13 days a year as a step toward integrating the two personnel systems. With this additional benefit, the absence of a limitation on the accumulation of annual leave is no longer justified and should be replaced with a limitation of 30 days. The interest of the Micronesians in the establishment of a group life insurance plan should also be explored. Finally, since the level of premiums for the U. S. health benefits program is based on a United States medical fee structure, it would not be appropriate to extend this program to Micronesian employees. The level of fees for medical care in the Trust Territory and the policy of providing medical care regardless of a person's ability to pay, lessen the need for a special medical insurance program for Micronesian personnel. When U. S. employees are no longer eligible for Federal benefits as described above, it may be appropriate to establish a medical insurance program open to all employees of the Territory.

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H. Judiciary

The President has delegated all judicial, as well as executive and legislative, authority for the Trust Territory government to the Secretary of the Interior. As noted earlier, in Department of the Interior Order No. 2658, the Secretary has provided that the judicial authority shall be independent of the executive and legislative powers. The order provides that judiciary budgets should be drawn up by the Chief Justice and submitted to the Department of the Interior by the High Commissioner. The latter is only given the function of calling the attention of the Department to any budgetary questions he may have. All regulations bearing on the judiciary must have the prior approval of the Secretary.

The organization, jurisdiction, and functions of the Trust Territory judiciary are detailed in the Trust Territory Code which provides for a High Court, district courts and community courts. Except for the Chief Justice and one Associate Justice appointed by the Secretary, the judges of those courts are Micronesians. Only two major problems were mentioned to the Mission with respect to the territorial judiciary: First, despite the language of the current Secretarial order, the budget of the judiciary has been subject to review and change by the High Commissioner. The Mission recommends that the procedure called for in the order be adhered to and that the High Commissioner simply transmit the judiciary budget unchanged to the Department of the Interior together with any comments he may wish to make.

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Second, cases decided by the territorial judiciary may not be appealed to higher Federal courts. In effect, at present, cases that are decided by the Trial Division of the High Court, which include cases appealed from lower territorial courts, may be appealed only to the Appellate Division of the High Court which includes the same judges as the Trial Division. That the arrangement does not give the appearance of a sound appellate system is recognized by territorial judges, and the Chief Justice has recommended that the Appellate Division be abolished and, instead, that appeals go to the appellate division of the District Court of Guam. The Department of the Interior is working on draft legislation to accomplish this, and, as a result, provide a right of further appeal through the Federal court system. The Mission endorses such action.

The Chief Justice also made several other recommendations to the Mission which we would endorse: (1) the translation of the territory code into local Micronesian languages and distribution of such translation to the numerous non-English-speaking local court judges; (2) increased training for Micronesian judges, trial assistants and other court employees by a law professor serving on a contract basis or as a temporary territorial employee; (3) increased legal scholarships; and (4) improved courthouse facilities (which are provided for in the capital investment program recommended in Part II, Section C). The Chief Justice has also indicated a need for a second Associate Justice. The Mission did not have the opportunity to study this matter, but suggests that it merits serious consideration in view of the workload of the present American judges,

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the lack of training of Micronesian judges and the travel and communications problems which exist.

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APPENDIX A

LIST OF EXECUTIVE ORDERS, REGULATIONS AND AMENDMENTS TO THE TRUST TERRITORY CODE SINCE REVISION ON DECEMBER 31, 1959.

Executive Order No. 83 - Dated: August 9, 1960

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An Order Establishing the Office of the District Treasurer and amending the Charter of the Palau District Congress, the Yap Island Congress, the Truk District Congress, the Ponape District Congress, and the Marshall Islands District Congress.

Executive Order No. 84 - Dated: December 23, 1960

Amendment of Chapter 6, Section 398 of Trust Territory Code extending the offense of malicious mischief to include littering, and Section 406 clarifying the penalty for bigamy.

Executive Order No. 85 - Dated: December 23, 1960

Amendment of Section 661 of the Code of the Trust Territory concerning requirement for citizens to obtain travel documents prior to departure as prescribed by the High Commissioner.

Parecutive Order No. 86 - Dated: July 27, 1961 - to be effective September 27, 1961

Amendment of Emigration and Immigration Regulation No. 2, requiring a valid International Certificate of Vaccination and indicating required innoculations.

Executive Order No. 87 - Dated: July 27, 1961

Amendment of the following Sections of the Trust Territory Code: Section 691 pertaining to application for license to marry; Sections 1305, 1309 and 1310 pertaining to eminent domain; and the elimination of all reference to the Island Trading Company of Micronesia wherever the same appears in the Code.

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Executive Order No. 88 - Dated: September 18, 1961

Amendment of Section 577, Trust Territory Code, to lower the age requirement for school attendance. Executive Order No. 89 - Dated: October 11, 1961

Amendment of Chapter 15 of the Code of the Trust Territory concerning Zoning of certain land by District Administrators and regulations pertaining thereto.

Executive Order No. 90 - Dated: September 6, 1962

Amendment of Sections 249, 390, 430, 489, 814, 924, and 926 of the Trust Territory Code - concerning issuance of Process; Arson, Principals and Accessories; Process obligatory upon police; Rules of the Road (Speed Restrictions); Office of Land Management; and, Land and Claims Administrator; duties.

Executive Order No. 91 - Dated: May 18, 1962, to be effective July 1, 1962

Amendment of Chapters 3 and 4 of the Trust Territory Code, concerning the territorial waters and the repeal of Section 39(g) of Chapter 3 and Section 151 of Chapter 4.

Executive Order No. 92 - Datea: November 27, 1962

Amendments and Additions to the Trust Territory Code concerning jurisdiction; Court Feos; Commitment of Insane Persons: Naturaliration; Simplified Procedure of settlement of optator of document persons where the value of the personal property does not exceed \$1,000.00; "Delinquent Child" defined; Juvenile Delinquency Proceedings; Liability of parent for acts of delinquent child; Registrar of Corporations: duties; Charters; Use of the terms "Co-operative" and "credit union"; Articles of Incorporation; Audit of Accounts; General Application; Existing Corporations; and Violations enjoinable.

Executive Order No. 93 - Dated: March 4, 1963

Amendments and Additions to the Code of the Trust Territory concerning Burglary; Reckless Driving; and Locally produced handicraft.

Executive Order No. 94 - Dated: July 1, 1963 Approved by the Secretary of Interior on July 8, 1963

Revision of Chapter 10, Nationality, Emigration and Immigration -Permission to enter or remain in territorial waters.

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Executive Order No. 95 - Dated: July 1, 1963 Approved by the Secretary of Interior on July 8, 1963

Revision of Emigration and Immigration Regulation No. 2 concerning entry of non-citizens into the Trust Territory.

Chapter IV, Board of Marine Inspectors' Regulation, Certificates of Competency - Dated: June 27, 1963 and approved by the High Commissioner, June 28, 1963, concerning Certificates of Competency to be issued by the Board of Marine Inspectors for certain categories of Merchant Marine personnel.

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APPENDIX B

Department of the Interior Order No. ____. Subject: Government of the Trust Territory of the Pacific Islands

Section 1. Purpose. The purpose of this order is to delimit the extent and nature of the authority of the Government of the Trust Territory of the Pacific Islands (hereinafter called "the Trust Territory"), as it will be exercised under the jurisdiction of the Secretary of the Interior pursuant to Executive Order No. 11021 of May 7, 1962, and to prescribe the manner in which the relationships of the Government of the Trust Territory shall be established and maintained with the Congress, the Department of the Interior and other Federal agencies, and with foreign governments and international bodies.

Section 2. Executive authority. (a) The executive authority of the Government of the Trust Territory, and the responsibility for carrying out the international obligations undertaken by the United States with respect to the Trust Territory, shall be vested in a High Commissioner of the Trust Territory who shall be appointed by the Secretary, and shall be exercised and discharged under the supervision and direction of the Secretary.

(b) The relations of the Government of the Trust Territory with the Congress of the United States on all legislative matters, including appropriations, shall be conducted through the Department of the Interior.

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(c) With freedom to consult directly with the Secretary when necessary, the High Commissioner of the Trust Territory shall normally communicate with the Secretary of the Interior through the Director of the Office of Territories. The High Commissioner shall be responsible for all United States property in the Trust Territory which is required for the operation of the Government of the Trust Territory and to which the Department of the Interior has custodial title or which it may use under permit. The High Commissioner shall perform such other functions for the Department of the Interior in the Trust Territory as may be delegated to him by the Secretary.

(d) Initial contact by the Government of the Trust Territory with Federal agencies outside the Department of the Interior on other than routine matters shall be established through the Office of Territories of the Department of the Interior. Once the relationship has been established, direct contact between the Government of the Trust Territory and the Federal agencies concerned may be maintained and the Office of Territories kept informed of significant developments in the relationship. Federal agencies should be encouraged to extend their normal Federal services and assistance to the Trust Territory whenever practicable, and the Government of the Trust Territory should be reimbursed for services it performs for other Federal agencies.

(e) Communications of the Government of the Trust Territory with foreign governments and international bodies shall be cleared through the Department of the Interior for transmittal by the Department of

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State, unless some other procedure is approved by the Secretary of the Interior.

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(f) In exercising his authority the High Commissioner shall obtain prior Secretarial approval of any significant deviation from the budget justification presented to the Congress, any expenditures from local revenues beyond the amount estimated in the budget justification, and any significant transfer of funds between programs or between administration and construction funds.

Section 3. Legislative authority. The legislative authority of the Government of the Trust Territory shall be vested in the High Commissioner of the Trust Territory and shall be exercised and discharged under the supervision and direction of the Secretary. The High Commissioner shall obtain Jecretarial approval of any proposed new law or regulation or any proposed amendment to an existing law or regulation, except in the event of an emergency in which case the law or regulation or amendment thereof may be promulgated by the High Commissioner but the Secretary's approval shall be obtained as soon thereafter as possible.

Section 4. Judicial authority. (a) The judicial authority of the Government of the Trust Territory shall be vested in a High Court for the Trust Territory of which the Secretary shall appoint the Chief Justice and the Associate Justice and such other courts as may be established pursuant to law. The judicial authority shall be independent of the executive and legislative powers. Budgetary requests for the territorial judiciary, with supporting justification, should be drawn up by

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the Chief Justice of the Trust Territory and submitted for the approval of the Department of the Interior by the High Commissioner of the Trust Territory as a separate item in the annual budget for the Trust Territory. The High Commissioner should call the attention of the Department to any question which he may have regarding the budget for the judiciary. Regulations bearing on the organization or operation of the judiciary shall be submitted to the Secretary of the Interior for approval prior to issuance.

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(b) The Solicitor of the Department of the Interior is authorized to exercise all the power of the Secretary of the Interior respecting decisions of the territorial judiciary.

Section 5. Frior orders. Department of the Interior Order No. 2050 of August 29, 1951, and Department of the Interior Order No. 2812 of April 6, 1956, insofar as it pertains to the Trust Territory, are hereby superseded.

Section 6. Existing laws. Existing laws, regulations, orders, appointments, or other acts in effect immediately prior to the effective date of this order shall remain in effect until they are superseded pursuant to the provisions of this order.

(4)