PUB 2739

A WORLD BANK COUNTRY STUDY

# THE MALDIVES

An Introductory Economic Report

## THE MALDIVES

### An Introductory Economic Report

This report is havel on the findings of a mission that visited the Maldives in July 1979. A death report was discussed with the Covernment in November 1979, and this version succeptually information and comments provided by the Covernment up to March 1980 and a few additional reconnents received in September 1980. The July 1979 mission was composed of

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	Мар	
	GLOSSARY	
Deaní	- [ocally constructed worden vassel (8-44 moters)	
թողու	- Locally constructed worden vasses (o-14 maters)	
	used for figuring and tremsport	
rr	- Government-appointed island chief	
KUACID	- Goverment-арроілтей ізлайи силог	
wili	- A conneil or assembly	
najiro	- h Contell Of Absembly	
Maich+ah	- Traditional Koranic school	
navir an	- 11401110HB1 EDIGHIC SCHOOL	
Kudim	- Kosque functionary	
[B(311 1 111	imadae immeromani	
S'nsriat	: - Talamic law based on the Koran	
own rar	Island tak babba da che mutam	

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#### CURRENCY EQUIVALENTS

Free Market Exchange Rate Used in the Report: To convert dullar values into supsee and super values into dollars the following average annual rates were used:

1974	DS\$1.00	🔻 Maldivian Nupees (MR) 6.	65
	<b>≥9</b> 1	≖ DS\$0.15	
1975	US\$1.00	<b>- XD</b> L 5.75	
	HR 1	= បន <b>ុ</b> ៣.17	
1976	OS\$1.00	₩R 8.75	
	MR 1	- US\$0.1 <u>!</u>	
1977	US\$1.00	= м <b>н</b> β.8u	
	HR 1	= US\$0.11	
1978	US\$1.00	= MR 8.88	
	₩R 1	- ពន់ទ្រក្ស	
1979 .	TS\$1.00	⇒ MR 7.50	
	MM 1	= Dâ\$0.13	

Official Accounting Rate: This rate is used for all Government and STO foreign exchange transactions and the valuation by Gustoms of exports and imports.

Umtil December 21, 1971 <u>1</u> /:		-	MR 4.75 VS\$0.21 VS\$210,526
December 21, 1971, until			
February 18, 1973:	0281.UO	_	мя 4.37
•	MH 1	=	ՄՖწ0.23
	ин 1 mm.	=	US\$22E,833
Since Webruary 19, 1973:	ບຣ\$1.ດບ	=	MR 3.93
<del>-</del>	HR 1	-	28 <b>8</b> 0.25
	HK 1 ma.	=	U86254,453

The Maldivian cupes was linked to the Sri Lankan rupes and indirectly to the Pound Sterling until November 21, 1967, when it was linked to the dollar.

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#### SUMMARY AND CONCLUSIONS

- (i) The Seiting: The Republic of Maldives became a member of the International Honetary Fund and the World Bank in January 1978. The first World Bank economic mission visited the Maldives in July 1979. This report, based on the mission's findings, is an attempt to set the Bank's initial diagnosis of the problems and prespects of the economy in the context of the country's historical background and of its society, policy and economy. The poor quality of the data cumbined with the comprehensive nature of the toverage has prevented exploration in greater depth of some of the more interesting issues identified by the mission. These must, therefore, by relegated to Induce economic scalies.
- (ii) The Republic of Maldives is an archipelago of nearly 1,200 tiny const islands in the Indian Ocean, grouped together in clusters or "atolls", forming a long, narrow chain strong over an area of 41,500 square miles. The hearest land mass lies 100 miles corthesat, the distance to Cape Comorin, Endla's southern extremity. The Maldives' physical remoteness explains how the islands have paragrad to remain relatively untouched by the great social and political changes that have swept across southern Asia. The population of 143,000 (1977) is stattered thinly over 202 islands; only 19 islands have more than 1,000 inhabitants. Hale, the capital, has 29,000 trowded on its one square mile. The society has traditionally been small, closely knit, rigidly structured and disciplined, and unified by the common bonds of religion (Islam) and language (Dhivebi, based on Sinhakese, Arabic, and Hindustani). Ruch island community is a self-contained accommic unit, dependent on the sea around it, as fishing is the usin activity.
- (iii) Throughout its recorded bistory, the Malaives has managed to remain self-governing, except for one trief spill under Portuguese rule in the 16th century. In 1387, the Maldives became a British protecturate, but there was no Scitish presence in Male. Independence was attained in 1965, and, after a period of experimentation with institutional reforms, the Sultanste was replaced by a Republican Constitution in which a President is nominated by the Citizens' Majlis (Bouse of Representatives) and confirmed in a subsequent nationwish reformable. There is universal adult franchise; the executive branch has considerable leverage over the legislature. The President, Mr. Maumoon Abdul Gayoom, took office on November 11, 1978, and has committed his new Severoment to a number of political and accommic reforms. These involve a liberalization of the political system, a more decentualized decision—making process, and a major new development program to redress the past deglect of economic and social infrastructure, particularly in the stolist.
- (iv) The Maldives is among the 20 poorest countries in the world. Like most island developing countries (180s), its resource base is narrow in relation to population, and it lacks known nineral resources. The country is beavily specialized in fishing and courism and increasingly dependent on food imports. But in some respects the Maldives is unlike must IDCs: it is free of any colonist or neg-colonial dependent relationship, it is not dominated by a foreign company, and its own successful shipping line, Maldives Shipping Limited (MSL), has mitigated some of the disadvantages of remoteness.

- Population growth was a high 2.8% between 1972 and 1977, with Make's population rising from 11% to 21% of the total population between 1967 and 1977. Labor force participation rates are high and doesnployment low; though memployment in becoming a serious problem in Hale, because of the flood of insignants to the capital, and in Seens stoll, which was adversely affected by the withdrawai in 1976 of the British air base at Gan. The problem of poverty in the Haldives is one of low money incomes, few assets, and in the stolls, lack of access to non-religious formal education, health services, and water supply. Must social indicators reflect a situation much worse than the avarage for 37 low-income developing countries; however, these are an insdequate meanable of the quality of life in the islands, which is greatly enriched by a strong sense of cultural identity and a social security system based on bonds of family and kinship.
- (vi) There are no obtinial national income accounts. Righly tentative bank staff estimates show a 1978 GMP of \$23 million, and an implied per capital income of \$160. About 40% of value added is attributed to the primary sector (mainly fishing), 6% to the secondary sector, and a high 54% to services, reflecting the dominance of Male-based Government services and tourism. About 55% of total employment is in the primary sectors, 26% in the secondary sectors, and the balance in services. The structure of trace reflects that up a fighteries-based economy. Pish exports account for almost all merchandise exports; consumer goods, particularly food, dominate imports. Import dependence for the economy as a whole was 32% of 1978 GDP.
- (vii) <u>Management of the Company</u>: Until recently, the Government had no commitment to placed economic development. Interventions by the State bave been confined to a low key, ad bor initiatives: the establishment of a shipping line, canalization at trade through the State Trading Organization (STO), the invitation to foreign fish-purchasing companies to operate in Maldivian waters, and the related mechanization of fishing vessels, and more recently, direct participation in the couplet industry and the construction of an interpolational mirport.
- (vili) The major economic institutions are a product of this policy environment. Their organizational structure is simple and designed to handle the routing functions performed by government in woat, till recently, was a rather accomplicated economy. STO plays a key role as the Government's bookkeeper and the major vehicle for external trade. STO's profits are an important source of budgetary revenues; they arise from its use of the official accounting rate of MR 3.93 = US\$1.00 as a reference point in establishing the domestic prices of experts, imports, and invisible transactions handled by it. Since the free market exchange rate was MR 7.50 = US\$1.00 in July 1979, this implies an effective tax on fish exports, for example, of 47.6%. The proceeds from this are used partially to subsidize essential imports.
- Banking and monetary policies, such as they are, have been left to the Department of Finance. A new Maldives Monetary Authority (NMA) will take over these functions and will munitur the operations of the two foreign commercial bank branches in Malt. The budget has been treated more as an accounting exercise than as a policy instrument, end the overall tax effort in 1978 was a low 7.4% of GOP. There is no exchange control legislation nor are there any seministrative restrictions on current and capital exchange transactions. The US dollar circulates freely along with the Maldiviso super.

- Recommic Grawla: GDF grew by an average of 12.5% a year between 1974 and 1978, due largely to a renovery in fishing and the emergence of tourism as a major economic growth sector. Money supply has been expanding rapidly, reflecting both the monetization of the stoll economy, the growth of tourism, and large government budget deficits as budgetary revenues, beavily reliant on uncertain receipts from public enterprises, failed to cover expondilure requirements. In 1979, the Government took a number of measures to reduce these deficites. These included new courism caxes and a wider base. for import duties, the latter effective from January 1, 1980. Data on prices are poor; inflation is currectly satimated at 15-70% per annum. Bank staff medimetes on the balance of payments for 1974-78 suggest a chronic current. account surplus. Although marchandise exports, including re-experts, covered only between 60-80% of imports, the carmings from Counties and remittances from Mil have more than offset the trade deficit. There are no data on expital. flows, but OECD's Development Assistance Committee (DAC) reported average annual commitments of \$5.2 million between 1974 and 1978. Oximitments cose saudply in 1978 to figauce the Hubble simport expansion.
- The combination of pregnatic policies and ad hor yet attategic interventions by the State has led to investments in those sectors of the acomony where the country's comparative advantage is stronger Sighing, shipping, and courism. These investments provide a potentially sound found dacinn for sublaided growth in the medium term. However, there ato some areas of concern. The use of an official accounting rate as a reference ocint in the determination of prices of fish exponts and four imports oreates important price distortions that could attract resources away from fishing and agriculture in the medium term. In the process, it acceptuates income dispusities between Male and the statle, which are further worsened by the concentration of public expenditures and private investment in the Male region. The Government's bacgetary recognisance is recent years has been rather unimpress. sign. Its implementation capabilities are happered by inadequate nanpower and an antiquated system of administration. Another oxion lacuna is the absence of an explicit legal framework within which private domestic and foreign investment can openate,
- The figheries sector accounts for one-third of GDP, 44% of Employment and uparty all visible export earnings. Growth of fish landings has avaraged a winw 1.8% per annum uses the last decade; but this concess a antius structural transformation of the sactor. With the decline in day, salued, and smoked "Maldive fiah" exports to Sri Lanka From 1972 unwards, foreign companies began to collect fresh fish for export. These have gained transmissionsty in importance. The change has been sconmounied by a major mechanization progremwith just under one-third of all pole and lime vessels already mechanized. A major image in the scalar is the adequacy of incentives  $\delta u_2$  to prioring  $p_2 u_3$ icies (para xi), rising fuel costs, end the melabively slow increase in expant unit value realizacions. Short-term development princities are a lower has burden, an improved fuel distribution system, and the creation of a stable policy environment in which invoigs ties companies can continue to operate with reasonable confidence. In the medium term, the Government needs to consider product dividuitiestion, improved fishing techniques, and greater investments in research and development.

- Four years of 40% should growth rates culminated in 23,000 tections coming to the Maldives in 1978, when tourism overtack fishing as the west important foreign exchange earner. The sector accounted for 11.6% of estimated GDP in 1978. Capacity utilization averaged 55%, with seasonal (inclustions;  $\cdot$ 1979 performance was even better. Tourist resorts currently employ about 1,800 mostly unskilled male workers, almost unertenth of the Hale region's labor force. Linkages with the Incal company are growing, but imports still account for over 40% of the sector's consumption and investment apending. Σηφαίρο οδ **th**e resorts' physical isulation, Confism's social and collectal impact has been small. Early in 1979, the Government assumed control over five resorts, bringing the Government's abore in and 1979 capacity to 65%. The takeover caused problems with the local banks which stopped lending to remorts at a time of peak construction activity. Although this matter is likely to be resolved in the short term, the Department of Tourism and Foreign Investment (DTFI) access strongchoning, and a sectoral planning offert is: required in which the Government Woold cefine its own rule in the seator's dayalopment and lay down guidelines for capacity growth and the supply of resources in terms of island space, manpower, and finance. If institutional and infrestructural problems can be solved, there appear to be good opportun<math>inias for further tourism growth, both by expansion of present capacity and by breaking new ground in the lucation and type of facilities difered. The promotion of two new regional development poles, potentially a key element in the Government's economic policies (para xxii), could be based on opening upoutlying atokla to tourism.
- (xiv) Agriculture is primarily a means by which islanders supplement their weapre earnings from fishing. Agriculture and related accivities account for 10-12% of GDP and about use-tenth of employment. Production of wost major fin]d and tree crops has been declining and import dependence is high. The cotal cultivable area is 6,900 acres, ut which about une-half is located on 23. islands. A 1974 FAO survey established that (a) with proper crop management, yields could be doubled or trebled; (b) diversification into pulses, dilseeds, and tobacco was feasible; and (c) rice could be grown in awamps and low-lying areas. In realize this potential, the FAO recommended a number of measures including improved cultivation practices, provision of inputs and adequate incentives. The MAO program is ambitious, but still relevant. The Government should focus on three priority areast excusul rehabilitation, the supply of food to the touriem industry and the development of integrated programs in a few agriculturally important atolls. These programs will require a streagthening of the Ministry of Agriculture and an effort to improve incertives through pricing policies and improved transport and marketing.
- (nv) Cottage industries, handicraits, and small-scale fabrication and repair dominate the industrial sector, which accounts for 6% of GDP and 26% of amployment. The notential for industrialization is limited by the size of the market, the level of development, and the lack of physical, institutional, and legal infrastructure. Nevertheless, there is potential for establishing on a modest scale a small industries sector with backward and forward linkages with agriculture, fishing, and toucism. The Government is also considering foreign investment proposals relating to the development of the former air base on Gan island for tourism and an export-processing zone. These proposals will require coverful evaluation. The weaknesses in

infrastructure suggest a gradual approach in the industrial sector, focusing tiret on farther detailed sector work and the establishment of a legislative framework.

- (avi) Boonowid Introduction: Lank of adequate inter-island transport is a pajor constraint to development which may be repodied by go Asign Nevelapment Beak (ADB) assisted project. Connections with the outside world are better due to the timely establishment of a national shipping lime, Maldiway Shipping Ltd (KSb), which now ferries almost all the colatry's imports. MSD's clear by end 1978, had risen to 29 years. Intoffing 84,000 GRT, but most ships are very small and very uid, necessifating a cosmby replacement program. MSL's contributions to forcigo exchange carologs and the budget have been declining because of the world shipping slung and increased operating costs. MSL's finascial and oberational atrategy needs a corein's review to grange the much medded recovery in profit transfers to Coveragent. Port facilities at Male are insignate, and a fessibility attac proposed investments totalize 97.5 million. Inter-island transport and telecommunications are an essential makers of ending the faulation of the stolle, and proposed sector activities. are rightly graced to this objective.
- (wvii) The largest <u>infrastructure</u> requirements pertain to Male, as an autempt is made to meet the growing gap between the demand arising from the capital's rapidly expanding population and the inadequate supply of essential services. These separate programs are not being adequately coordinated and reconciled, which could prove both coulty and wasteful in the medium term. Major investment needs have been identified in the following areas: water and senitation, power, roads, and telegrammunications. Land reclaration is also absorbing sizable resources.
- (wviii) boolal Services: There are three atreads of formal education, each responding to a different set of directiones and needs: the traditional Koranic schools, the Obivahi medium schools, and English medium schools. School encollect ratios are low, and the output of the system is inadequate in relation to peeds. Primary schools are to be extended in the atoly and secondary and vocational schools in Male. Teacher training and curriculum divelopment are a chiral principy. There will be a large expansion in the maker of children of school-going age in the next 2) years which calls for much ingenuity and innovation in this crucial area.
- (kix) <u>Health</u> gottitions are prot, due mainly to waterbodge diseases resulting from an inadequate water augply system. Communicable diseases are also a problem. Ungning IN programs to improve health conditions have focused mainly on improving water supply and setting up health centera is the atolla. However, important gaps remain in the supply of maternity and child health care programs and family planning.

- Latablishing Development Priorities: The proceeding analysis suggests the following development objectives: (a) a rate of economic growth sufficient to ensure an adequate increase in real per capita increase and consumption; (b) a more equitable distribution of the benefits of development as between Male and the stolls; (c) a decerained effort to reduce migration into Male through the creation of alternative poles of development; and (d) a program to slow down the current rapid population growth without which the long run concents development gains would be ended. A careful evaluation of sectoral growth possibilities suggests that the economy is prised for rapid growth provided that the Government continues to maintain an open economic system; it examines ways of removing serious price distortions arising out of STO's pricing policies; it ensures the dequacy of incentives in key sectors adversely affected by recent policy developments; and it provides the infrastructure—physical, Financial, social, and legal—which is essential to growth of productive sectors whilst at the same time supporting birth control programs.
- (xxi) Reversing past neglect of the stalls will require a multipromged approach, by boosting incomes of fishermen and farmers, by increasing Covernment expenditures in the scalls and by developing programs geared to the special needs of selected Agriculturally important stalls.
- (xxii) Male's population could expand to 50,000 by 1985, it the rate of immigration goes unchecked. This suggests the need for creating alternative growth centers committee at attract potential migrants away from Male. The Government is already considering one such development in Seems atoll (Gas); there may be room for a second in the nurth.
- (whili) These programs are likely to prove costly in relation to available resources. The Government will need to resist the temptation to do all things at once by establishing a clear set of priorities and attempting to match its efforts to implementation capabilities. This will require defining the relative roles of the public and private sectors. On a priorisgrounds, the most natural course would appear to be to connectrate the bulk of public investments on essential infrastructure needs. The National Planning Agency (NPA) will need to play a key role in this process. Particular attention should be paid to increasing public savings, to alleviating shortages of trained personnel and manpower, and to addressing administrative constraints. External denors can help in picking up the costs of large indivisible investments that the Maldives could not on its own afford and by providing technical assistance. Given the limited rupee resources, aid should finance a high proportion of total costs and be on highly concessional terms.
- (xxiv) While the problems of the Maldiver' commony appear large, they are by no means insurmountable. The country's good development potential and its small size permit using of its problems to be addressed quickly and relatively easily, given adequate resources. With the right policies and programs and appropriate external assistance, the Government should not have much difficulty in meeting the growing aspirations of this quite unique nation of islands.

### COUNTRY DATA - HALDIVES

AREA 298 sq km POPULATION

142,832 (December 1977) a/

DESSITY

HEALTE (1979)

479 per sq km (December 1977) 3,500 per sq km of agricul-

Population per physician: 15,894 Population per hospital bed: 3,576

turai laud

PQPULATION CHARACTERISTICS (1977)

Crude Birth Rate (per '000): 44.0 a/ Crude Death Rate (per '000): 17.6 a/

Infant Mustality Rate (per '000): 120.7

Life Expectancy at Birth (years): 46.5 4/

ACCESS TO SAFE WATER

Wof population - unhan: 54

- cural: 5

RESUCATION

Adult literacy rate: 81.9% a/

School earollment: (ages  $5-\overline{1}$ ): 26.9% = 1

ACCESS TO ELECTRICITY

<u>% of dwellings - urban: 59.3 a/</u>

= rural:  $2.3 \overline{9}/$ 

#### GMP PER CAPITA IN 1978: US\$160 b/

#### CROSS DOMESTIC PRODUCT IN 1978 b/

#### ANNUAL RATE OF GROWTH

	<u>USS mn</u>	% of total	1974-78
GDP at Market Prices	22.5	100.0	12.5%
Emports of Goods, NFS	25.6	69.1	18.4%
Jupucts of Goods, NFS	23.1	58.4	15.6%

#### OUTPUT AND EMPLOYMENT IN 1978

	<u>Value Added</u> b/		Rmp. Symeut $\varepsilon$	
	<u>। १८५                                    </u>	, X	CHO.	<u>X</u>
Primary Production	5.9	39.7	33.5	55.6
Secondary Production	1,4	6.G	15.0	26.4
Services	12.2	54.3	10,4	<u> 17.2</u>
Iotal	22.5	100.0	60.3	105, 0

#### GOVERNMENT FINANCE, 1978 (Provisional)

	HR ⊐aj	Z of GDP
Anvenue	11.8	5.9
Ажрелбіture	41.2	20.7
Rudgetary deficit	-29,4	14.8
External assistance (grants)	16.7	# , <del>*</del>

a/ 1977 Census

<sup>√</sup>b/ Rank staff estimates

BALANCE OF PAYMENTS			MERCHANDISE EXP	ORTS (1978	
<u>1</u> :	977 <u>a</u> / (88\$ ni	<u>1978 a/</u> 11ion)		<u>ts\$'000</u>	% of total
Impuris of Goods, NIS	9.0 9.2 -0.2 +1.7	13.1	Fresh Skipjack Dry Salted fish Dry Skipjack Dry Sharkfins All other commoditi	2,540 670 210 340 cs 333	16.4 5-1 8.3
			Total	4,093	
RATE OF EXCHANGE		<u> Käteknal</u>	DEBT (US\$ million)		-
1974 US\$1.00 - MR 6.65 MR 1 = US\$0.15				December 1978	December
·			tataodiog	19.5	23.4
1975 78\$1.00 = MR 5.75			Cstandiog sbursed	3.9	6.2
MR 1 = US\$0.17		De <b>b</b> t Ser	vice Katio for 1978	0.3%	
1976 US\$1.00 = MR 8.75 MR 1 = US\$0.11		IDA LEND	7NG, Descember 31, 19	79 (US\$ mi	11 կսոյ)
1977		Outataod Outacand	ing ing and Diabursed	3.2 0.0	
$\overline{\text{US$1.00}} = \text{MR 6.50}$ MR 1 = \text{US\$0.11}					
1978 US\$1.00 = MR 8.88 MR 1 = US\$0.11					
1979 USS1.00 = MR 7.50 MR 1 = US\$0.13					
Official Accounting Rate Until December 21, 1971 Dec. 21, 1971 - Veb. 18, Since February 19, 1973	1973 U	8\$1.00 - M 8\$1.00 - M 8\$1.00 - M	R 4.37		

#### PART A: THE SETTING

#### 1. INTRODUCTION

#### A Nation of Islands

- 1.00 1/ tiny coral islands in the Indian Ocean, grouped together is clusters or "atolls." 2/ These stulls form a long, narrow chain 3/ that is stung over an area of about 41,500 square miles (106,000 sq km). The northern and southernmost tips are 512 wiles (820 km) spart; at its widest, it measures bl miles (130 km). Geologically, the stoll-bearing planeau line continues southwards with the British Chages archipolago, and northwards with ladix's Minicov and Laksbadwoop Islands. The nearest land mass lies 300 miles away—the distance to Cape Comorin, India's southern extremity—and it is 400 miles esatwards across the Indian Ocean to Colombo, the capital of Sri Lanka. The Maldives' physical remotences explains now the islands have remained relatively, untrouched by the great social and political changes that have swept across Southern Asia.
- 1.02 The northern and central atolls, from Has Alife to Lasme, form a narrow ellipse surrounding a strip of sea 10 to 25 miles broad. They rise from a common plateau and are separated from each other by deep channels, most of which are easy to navigate. The southern atolls, Gaaf Alif, Gaafu Dhaalu, Gnaviyani, and Seene, are separated from the main body of islands by two broad channels: the 50-mile-wide One and Half Degree Channel between Lasme and Kaafu, and the equality broad Equatorial Channel between Gaafu and Seene. Strong currents in both these channels, and in the Veimande (or Kolomadely) Channel between Lasme and Than, make them a bazard to navigation, to which many wrecks bear silent witness. Uncharted and unmarked reefs have also taken their toll of ships through the centuries. The exclosure reefs to each atoll contain openings which provide passageways for boats traveling between atolls. Only a few are deep and wide enough to accommodate even the smallest modern cargo boats or collector wessels for the fishing fleet.
- 1.03 Most islands are situated close to the stoll enclosure reaf. They very in size from patches of corol or small sandbanks to real islands, the longest of which, Gamu in Lammo stoll, is 4.5 miles long. Male, the capital occupies an island barely one mile long on the east side of the central stoll, Rasfu. Most other islands are less than a mile long. The total land area is thought to be about 115 sq miles (29% sq km), although a proper land survey remains to be done. Because they are based on coral, the islands are fist, the highest point being rarely more than 6 ft above sea love). The water table is naturally high in all the islands. Often, the highest water points are along the shoreline and in the center. Several islands have fresh water

The Coral Atoll Program of the National Academy of Science of the United States identified 1,009 islands, islets, teef patches, and tenf rings. Covernment data indicate 202 inhabited and 985 uninhabited islands, a total of i,187.

<sup>2</sup>f The word "stoll" is derived from the Maldivian word "atolu."

The chain stretches from  $7^{\circ}0'$  North to  $0^{\circ}45$  South latitude, and from  $72^{\circ}31'$  East to  $73^{\circ}48'$  East longitude.

takes. All the older islands, where a layer of soil has open formed no top of the total base brow accumulated animal and vegetable ratter through the millennia, are covered with tempical ungetation, typically coconut trees towering above dense scrob. Breadfruit trees and youdanns (scrowpins) are also widesproad. Vegetation is more abundant in the southern stolls where rainfall is heaviest, but agricultural potential generally is limited by the high ackaline content of the soil, its poor water-retention espacity, and lack of nitrogen.

- 1.04 The Haldives' greatest wildlife riches are to be found underwater. In sun-specialing, Crystal-clear lagooss, among multiculured coral deefs, tropical ocean fish of every shape and color, countaceans, turtles, someed, and shalls provide a spellbinding, ever-changing spectacle. This is the major tourist attraction and one which is being effectively safeguarded with marine life protection measures. The islands also provide a haven for seatolide, although some of their breeding grounds are threatened by egg-hanting islanders. There are very tow other birds apart from crows, whose numbers have been untitoably reduced by gradication efforts. Rabbits, flying force, and rate are the only indigenous mammals.
- 1.05 Climate. The alimate is determined by monopous; it is but and hamid. The senthwest monopour comes at the end of April with a steady westerly surface wind that continues until mid-August, though it can be irregular. The north-east monopour, from Recember to March, is the driest season of the year. The insystematic meteorological records available for Male 1/ and Gan du not show a particular rainfall pattern except that it is lower between January and March. The annual rainfall recorded at Male during 1974-78 averaged 84 inches. The mean daily temperature in Male varies little through the year, averaging 86%F (30%C). 2/ Diurnal variations seldom exceed 10%F. Humblidge is high throughout the year; during the southwest monopour, it seldom drops below 80%.

#### An Island People

- 1.06 Porelation dispersion. Only 202 of the 1,200 injends are permatertly inhabited; of these, 26 have fewer than 200 inhabitants and 107 support a population of between 200 and 500. Mineteen islands have more than 1,000 people, of which the most populated by far are Hithadhoo in the southeramest Seena Atoll (6,320 people at end-1977), and the capital, Male, with 29,520 people arounded onto just over one square mile of land- 3/ Some of the officially uninhabited islands are seasonally occupied by families engaged in the gathering and processing of cocumute and in planting coconut trees, or occupied full-time by thurist resorts.
- 1.07 The population of 142,800 is fairly regularly dispersed over the island chain: 1977 census data (paras 2.05-2.06) show that 35% lived in the atolls north of Male, 24% lived in Male and Reafu stoll, and 41% lived south of the central stoll. The northernmost stolls, Was Alife and Mas Dhagle,

2/ Op. cit.

<sup>7/</sup> Statistical Appendix Table 10.1

<sup>3/</sup> Statistical Appendix Table 1.4.

as counted for 13% of the population, while the southermost addis Seedu, Graviyani, Gaafu Basalu, and Gaaf Alif, had 22%. Apart From Mala, there are no urban sabilements. The Maldivian language has no adequate word ever to cover the concept of a village or town.

- 3.68 Population density. Accorate pupulation density rigores are not grailable because of the lack of land survey data. The estimated late area of 115 aquiles (295 aq km) suggests that there were 1,202 persons per aquile (479 per aq km) in 1977. If Male is excluded from the figures, population density talks to 994 per aquile (380 as km). Excliding Maid, the average population per ithabited island is 564, ranging from 220 in Vasvu accil to 4,200 in the one Island shull of Graviyati. The 19 and to misseness have about 1 inhabited and 51 uninabited islands each. Excluding Graviyati, the number of occupied islands per stell ranges between 4 and 18. The number of enoccupied islands per stell varies from 14 to 148.
- 1.69 <u>Migration</u>. There is little inter-atoll digration, except to Male. Consus data for 1977 show that between 86% and 97% of the inhabitants of individual atolls outside of Male had never resided anywhere except on their uwn islands. 1/ Nowever, there has been a sizable migration to Male where noty 60% of the goneration is permanently resident. 2/ Migration to Male is partly attributable to the concentration of social infrastructure (education and health) in the capital, as well as the lare, of job opportunities in the construction and services sectors.
- i.10 Enigration is have except on a temporary besis for educational purposes, political reasons, or to work as crew members on Maidivian ships. The 1977 census reported 1,359 Maidivians temporarily overseas, of which 1,780 were males. There are a small number of mainly non-permanent immigrants, concentrated in Male, numbering 1,000 people at most. They include staff of international agencies, Sri Tankan and other foreign temperary, Indian and Sri Letken traders, hanking, insurance, and similine personnel and their facilies.

#### Religion and Culture

1.11 The early history of the Heldives is shrouded in hystery. The islands were probably settled in the 4th or 5th century B.C. by Aryan immigrants from Goylon, or from those parts of India whence came the Sinhalese, or from both. 3/ There is an undoubted affinity between the Sinhalese and the Maldivians both id physical appearance and in the Maldivian leaguage, which is hasei on Flu, or ancient Ginbale. Degend has if shat the Aryan settlers found an shoriginal people on the islands who welcomed the newcomers. Over the centuries, trading contacts with the Arab world, Rash Africa and Madagascar, Malaysia, and Induces a have left their imprint on the Maldivian people. Of those, Persian and Arab influences have been the most important.

 $<sup>\</sup>boxed{\underline{1}}$  Statistical Appendix Table 1.5.

 $<sup>\</sup>overline{Z}I$  — Statistical Appendix Table 1.5.

The Carika State Chronicles of the Bultans, as quoted by H.C.F. Hell.
The Maldives Islands: Monograph on the History, Archaeology and
Epigraphy.

- Animism and Buddhism preceded Islam in the religious beliefs of 1.12 the inlanders. Archaeological research has uncovered vestiges of a Baddhist culture dating back to the second or chird centuries AD. 1/ Little remains of the gadient Buddhish structures found in the southern atolls; most were demolished with the advent of Islam, and the twice were used as stone quarries. By the eighth contury Alt, Porsian and Arab morchants had created a zone of influence in the Indian Ocean. Arab travelers such as Sulaiman, Masudi, and Al Admisi wisited the islands between the midth and twelfth cembaries inswing behind the guly written historical accounts of the Maldives for that period. Frequent contacts with Muslim foreigners may have beload to pave the way for the pruhipelago's conversion to Islam. Sultan Mohamed The Absultan was onsverted in 1955 AD by a body man visiting the islands. Thereafter, all the inhabitants of Malo and the stolls adopted the Muslim faith, 2/ Advised by the boly man, the Sultan introduced regulations for the administration of the islands; knowledge of Islam was widely disseminated, religious laws enforced, mosques built everywhere, and all traces of Boddhism oftaced. Apart from a brief seried of Portuguese ecompation in the lath century, which followed upon the conversion to Catholicasm of Soltan Hasan 14, the Maldivians have belonged to the Shafi School of the Sunni Muslim faith. Islam is the religion of the State, and Maldivian citizenship is confined to Muslims, although non-Muslims may be given adomits to reside permanently and to do hysiness in the Maldives.
- 1.13 Maldivian Estem has its num unique character, a delicate blond between tradition and modernity. There is a strong tradition of Koranic acholacation at all levels, with Koranic achoels providing the only fermal administration that most Maldivian children get. The diny intellectual alien, however, comprises a wide spectrum of scholastic traditions, ranging from products of the traditional telamic Al Azhar Triversity in Cairo (who include President Maumoon Abdul Gayoom) to graduates from more secular institutions in Europe, Oceania, and the Indian subcontinent. Female enrollment in prinary and secondary education is high, and women participate freely in social activities. In the administration of justice, bandsment is the worst punishment.
- 1.14 Larguage. Increasingly close contact with the Arab world and with India brought about certain important changes in the language and script of the lalands. From the original \$10, or old \$inhalose, an intrinsically Maldivian lauguage developed known as Chivehi. It has important elements of both Arabic and of Mindustani. The language is speken more or less uniformly in all the far-flung atolis, as well as the Indian island of Minitoy. The script, known as Thasha, developed in the 17th century. It is based on the Arabic and Persian script and written from right to left. It is in general new fuddy, with a high \$2% adult literary level in Uhivehi. Recently, the Covernment has permitted the use of Roman script along with Thasha for official correspondence and documents. The translation of Dhivehi vevels and

1/ According to H.C.P. Boll, op. cit.

The veripacetic Arab traveler Ibn datuta, who visited the Maldives between 1343 and 1345, ascribed the conversion to a fellow North African, the Rerber Abu-1-Barskat. The Tarike State Chronicles of the Sultana ascribe it to Sheikh Yualf Shansuddin From Esbriz in Persia.

consonants into Rowar letters has proven feasible, thus making it possible to use typewriters for correspondence in Onivehi. The second-most widety spoken language is English, claimed as a second tanguage by 3% of the population, or shour 4,300 people. Among other forcign languages spoken by only a few hundred people are Arabic, Dudo, and Sinhals.

#### The Social Background

- 1,15 Wistorically, Maldivian society has always been small, closely knit, rigidly structured, and disciplined. The inity of religion and language is an important element of this whole. It is an elitist society is which power is concentrated in Male among a few families. In the stable, central power is exercised through the stell chiefs and island khatiba, generally with a light band. From the beginning, Maldivians are brought up to respect shoit eldens and those who have been educated, while confurning to an Islamic cose of conduct. The imbabitants of each island form so interceleted group Wiede everyone knows each other, where social services, law and under, and investment decisions are the responsibility of the community, directed by its chief. The stalls, are some individual islands, are almost self-contained economic unita, dependent on the sea around them, as fishing is the main economic activity. Boys start carly to learn scalaring skills. They will go out with the Sisbing boats by the time they are 20 or 12 years old. The more sons a father can bring along on a boat, the larger his share of the catch, for it is divided among the crew of each fishing boat. The women and girls are homemakers; they look after sume crops and to headlerafts. Unlike women in other Indian Ocean island parings, they do not market rish and produce. The island economy is usually dominated by bost owners. They are in the position of employers, and boat ownership helps them to exercise influence over people's movements and provides them with access to the political and economic power structure at Male. Prolite from boat ownership are ploughed back into trade; boat owners are also frequently owners of shops in the atolls.
- Islam with their own distinctive traditions. Pospite the violence and corruption that characterizes the history of the Soltans and their enterrage, they are a peaceful and orderly people who practice understion in most things. Both raligious fanaticism and crimes of passion are rare. Mamily relation—ships are fluid. Divorce rates are high: according to the 1977 causes, nearly balf the women over the age of 30 had been married four times or more. 1/Yet, strong loyalties die the individual to the extended family, while women are held in high estern and employ a secure position within each island community, whatever their marital status.

#### Hale's Protentance

ill? Male dominates the political, accomman, and accide structure of the country. It is here that a small particular presides over the acchipelago's affairs and takes decisions that are crucial to the well-being of the stalls. Not susprisingly, a disprepartium at a share of government expenditures directly

<sup>1/</sup> Statistical Appendix Table [0.2]

benefits Malo and resorces its residents a standard of living that is substandially higher than in the stalls (mand 5.24). The other islands now call upon it as their main trading post and contact point with the rest of the world. In Male itself, sociaty is structured in the same way is in the other islands, except that it is larger, ricker, and better educated. Whereas the atolla are recommically dependent on the aca, Make is dependent on the acolls. Make differs from ucher lamabited islants because of its immigrant population, both islanders and foreigners, who do not fit into the Craditional social structure. It has more corruption and more deprivation than would be tolerated in the gulf-regulating and self-reliant atoll communities. But it is also move recentive towards new ideas and techniques--and aware of the fact that establi lighed social structures are neither pertect nor immutable. Alter years of political repression, which his Male worse that other islands, the augital in 1979 exulted in a newfound freedom of speech and thought. Thorn was open criticism of the existing system and sympathy for the new government's desire , to parrow the social and economic gaps between Male and the atolla. The mood was perhaps comparable to the one which preceded the political reforms of the 1930a and more wideapread.

#### Political History

- Unlike most countries of the region, the Maldives has managed to 1,18 romain sait-governing through most of its recorded history. Except for a brief period in the 16th contury (1558-75) when the Maldives was accupied by the Portuguese and governot from Con, Maldivians have been taled unlikertupredly by their own Sultama, and occasionally Sultamas, muli the Sultamate was finally abolished in 1968. From the 15th to 19th centuries, the Maldives was haressed from time to time by the Porthypeese and the Rajahs of Kashadur. (Mainbor, India). Such harrassment caused it to won a more powerful and less. predatory colonial maighbor, Caybon. The first known reference to an appual embassy from the Sultans to Chylen's malers, bearing gifts, dates back to 1645. This alliance continued through Caylon's Dutch and Oricish columnal periods, but was only tormalized in 1887 when an agreement was signed under which the Maldives obtained British protectorate status. Rowever, even after the Maidives accepted British sugersincy, thorowas little interference by the British in local affairs and no British presence in Male.
- 1.19 The political history of the Kabbives is mainly that of Kale. Male is, and was always, cuted by a mere handful of families. Their intermodine struggles and rivalries dominate the historical scene. Occasionally, a Sultan stands out for his wisdom. Others have been emposable in murderous power struggles, were profligate and veral. The isolation of this clift from the rest of the world was finally broken by the protectorate strangement with Britain. Exposure to the initial world during the 1920s, particularly to Colombo, made Male's educated elite more swarm of the great political changes taking place in South Asia and elsewhere. There was a growing desire for change, which focused particularly on the autocratic structure of government. The Sultan was persuaded to appoint a compatitutional committee in 1930, It prepared a draft constitution, providing for an elected citizens' assembly

and for an elected Sultan. The document was accepted as the Asidives' first constitution in 1932, and in 1934, Sultan Hassen Suruddin became the first elected Sultan. He ruled through the difficult was years when the Maldives was more than usually isolated by the discuption of shipping in the Indian Ocean. He resigned in 1942, and after a two-year interim period of null by a Council of Rageacy, was succeeded by Sultan-elect Abdul Majeci--considered by many to have been the "father of the networ."

- 1.20 In the two decades that Inllowed, the Maldives progressed from a constitutional monarchy to a republic; the Sultanate was restored again and then finally abolished in 1968. These changes were all brought about peacerfully, and the people were consulted through elections and referenda. This period of experimentation with constitutional reform 1/ coincided with major changes in relations with the UK. When Daylon became independent in 1948, the Maldives extered into a mutual defense pact with the UK, under which the latter continued to provide the Maldives with military protection and control over external affairs. In return, the Sultan undertank to provide (activities for UK military forces, as accorde, for the defense of either the islands or the Commonwealth. In 1956, the UK closed its military base in Triucomalee (Ceylon) and sought to re-establish its wartime staging post and communications center on Gan, in Addu (now Seenu) stalt. While the magnification of a leasing agreement encountered strong apposition in Male, UK construction activity in distant Gan proceeded apace.
- The Gan islanders became wholly involved in the new development that brought with it high wages and educational and social services undresmt of elsewhere in the Maldives. The development of the base had a strong oultiplier effect on the economies not only of Cam but of the southern abolt group as a winde. Confident that the region had a secure economic future, political leaders from Addo, Fuz Muleko (now Graviyani), and Suvadiya (now divided into Gasf Alif and Gasfu Dhasla) joined forced in an attempt to secreta from the rest of the country. Government forces quasiced the rebellion and in-1963, its leader, Affif Bidi, was given political asylum by the UK in the Seychelles. Although the UK never recognized the "United Suvadivian Republic," the Male Severament was highly suspicious of British invulvement in the cebellion, and relations between the two governments reached their padir, Against this background, new negotiations took place. They led to an agreement under which the Maluives became an independent sovereign state on July 26, 1965. 2/ Later East year, the Maldives became the li4th member country of the United Nations, but opted out of the Commonwealth.

The 1968 Constitution, by which the Maldives is correctly governed, is the country's fifth written constitution and the fourth in two decades.

2/ Under this agreement, Gan island was leased to the UK metil 1986. The British presence in Gan was, however, terminated abruptly in 1976 following the 1974 decision to reduce defease expenditures east of Suez. The wilndrawal has had a severe impact on the economy of Second atoll. Gan island itself had been wholly developed as a services—oriented community which fould not revert overnight to primary activities of subsistence agriculture and fishing. In addition, the island was stripped of most movable usable assets, which were taken to Male; the hospital and schools were closed. Of the 1,200 Maldivians noce fully employed in Gan, only some 60 caretaker personnel remain (Also see Annex C).

#### The Constitutional and Administrative Framework

- 1.22 The 1968 Constitution, as amended in 1970 and 1975, proclaims the Maldives to be an Islamic Republic. At the apex of the power structure, which remains as highly centralized as in the days of the Sultau, is the President, and a ministers' majlis or Cabinet appointed by him. The President is numinated for a renewable five-year term by the Citizens' Majlis (House of Representatives) in a secret ballot. He must be confirmed by obtaining a majority vote in a subsequent nationwide referenden. In 1975, when the then Prime Minister, Ahmed Zaki, was backeted by President Masir, the constitutional provision for the appointment of a prime minister was dropped. The President may, however, nominate one or more vice presidents, whose functions are undefined. 1/ Ministers need not be members of the Citizens' Majlis.
- 1.23 The Citizens' Majlis also has a five-year like span and holds three sessions a year. 2/ It has 48 members, eight appointed by the Tresident, two members elected from Male, and two from each stult. All Maldivian citizens of age 21 and above, both men and women, have the right to vote. The President must call for the election of a Citizens' Special Majlis if a law is to be passed which either alters the Value of the currency or affects the constitutional rights of the people or the State. Effectively, the President controls the legislature and holds executive and judiciary powers. There are no political parties, in or out of the Majlis, only changing factions based on personal alliances. Recently, a more questioning attitude has arised among the less traditionalist, younger members of the Majlis.
- 1.24 There are only a few general references to citizens' rights in the constitution (freedom of speech and samembly, equality before the law, and the right to bold property); in all cases, the details are left to be defined by Shariat or by statute law. As there is very little of the latter, it is still the Shariat which must provide a legal framework for most civil and criminal cases, as it did right contories ago. Particularly serious lacutae are the lack of established laws scaling with leasthold property rights (most land is vested in the Government but can be leased or alloted) and with contracts, company operations, Foreign investment, banking, and insurance. The administration of justice theoretically fails under the overall control of the Ministry of Justice. The minister is a cebinet member, appointed by the President. The President is also advised by an Attorney-General, who is an appointed cabinet minister. The President is, however, the final authority for the propagation of the tenets of Islam; insofar as these include the interpretation of the Sharist, supreme judicial power rests with the President.
- i.25 The constitution has no provision for local governments. At present, the islands are grouped into i9 administrative apolls, each one headed by an atol? chief, appointed by the President. Every inhabited island has a

 $<sup>\</sup>underline{1}/$  There is no vice president in Fresident Gayoom's government.

 $<sup>\</sup>frac{2}{}$  Any number of meetings may be held in each session, depending on the business on hand.

government-appointed island chief (kinstib) and one or more mosque functionaries (mutims). The stall chiefs, most of whom are from Male, together with the khatibs are responsible for the maintenance of public security, the collection of statistics, the implementation of government pullcies, and the conduct of the educational system in the islands. The stall object have direct radio communication from their atoll offices to the northern or southern regional offices in the Ministry of Provincial Affairs, to which they report.

At the time of the mission's visit, the organization attracture 1.26 of government consisted of the Office of the President, ten line ministries, the Maldives Shipping Ltd. (MSL) and the Maldives Fisheries Corporation (MFC), 1/ The light ministries all report to the Office of the President which also has responsibility for anythin key departments for which up ministerial appointments have been made. These are the departments of Finance, of Tourism and Poreign Investment, of Information and Broadcasting, of Electricity and of Telecommunications. The line ministries are divided into Agriculture, Bisheries, Transport, Bong Affairs, Provincial Alfairs, Public Sefety, External Affairs, Justice, Education, and Realth. Each department and Ministry, in cura, has responsibility for one or more operational units and enterprises, which range in size from the State Trading Organization (STO) with 70 employees, reporting to the Director of Finance, to the Lwo-Lan Architectural Section, which is part of the Office of the President. The MSL, with its operational headquarters in Siggapore and its administrative beadquarters in Male, operates with a great deal of autocomy.

#### Recent Pulitical Developments

After almost 20 years in power, as Prime Minister oncer the last 1,27 Bulcanate and as the second President of the Republic, Iprahim Nasir withdrew from the 1978 presidential race, obstensibly for personal reasons. A referendom confirmed the Majlis' choice of Maumoun Abdul Cayoun, a former Ambassedor to the United Nations and Transport Minister, as the new President of the Republic. President Gayoom took office on November 11, 1976. In both style and substance, his administration appears to represent a major shift in political and economic direction. In  $g_{\underline{a}}$  policy statement to the Majlis in Fabruary 1979, the new President committed himself to a more open Government, to the restoration of fundamental rights, including greater freedom of the press, and to running the Government according to the principles of Islam and mudero democracy. The decision-making process is to be decentralized, with greater reliance on consultation within the Cabinet and increased powers for both the Citizen's Majlis, and the judiciary, which is carrently an integral park of the executive branch of government. The exact extent and extent of these constitutional changes are to be defined by a Special Majlis which cunsists of mambars of the Citizen's MajBia, members of the Gabinet, eight members pominated by the President and two members elected from asch stall and in Mele. - Blections for the Special Majlis were held in March 1979 and the quinquencial elections to the Citizens' Majlia in November 1979.

<sup>1/</sup> An organogram appears in Annex A.

- 1.28 On the economic size, the new Coverament is commisted to reversing, so quickly as possible, the past neglect of economic and sucial infrastructure and to approading the benefits of development more evenly. A National Planning Agency (NPA) has been established to draw up a public investment. program which will emphasize, in particular, the development of the outer abolls. The Government has invited a number of invernational agencies to provide technical assistance for this planning sudeavor. In the meantime, it has embanked on a comber of expenditure programs that appear to represent a political response to gent up demands from the abolis. These include an MR 14 million Special Atolf Sudget for 1979-51 mostly for establishment and maintenames of new schools, recairs and construction of mosques and government offices, and dredging of inner harbors in sume islands; and an MR 20 million Isud reclassifou project for Maid. The Government is also encouraging, with some success, new entroproneurs to establish tourism resucts. Thus widening ownership of the resorts, which in the previous regime had seen confined to the former Specident and a small coneris of intends and relations.
- 1.29 The main characteristics of the economy immerited by the new Government are described in Chapter II. Recent scommic trends and policy issues are analyzed in Chapter III. Chapters IV through VII review problems and prospects of the major sectors in the economy. Chapter VIII assesses the policy and strategy uptions upon to the new Government, and Chapter IX examines the potential role of aid denots.

#### II. THE ECONOMY

#### Pusicion Among Island Nations

- 2.0] The Maidives is small and remote, but it has made good use of its few natural resources. The Republic is estimated to be smong the 20 pocrest countries in the world in terms of GNP per head; it also counts among the pocrest of the island developing countries (IDCs) which the General Assembly of the United Nations first identified in 1974 as being in need of special assistence. The Maidivian islands are among the world's most densely populated, comparable with Babraia, Barbados, and Mauritius, but less than half the densities of Bermuda ux Maita, and phe-eighth of Singapore's. The population growth rate between 1972 and 1977 of 2.8% a year is above the average for island nations in 1970-76; it is particularly high among the pourest IDCs. 1/ Estimated GNP per head in 1978 was around \$160, 2/ the lowest of kill IDCs for which comparable IBRD data are available. In comparison, GNP per head in the Commons in 1978 totalled \$180, in Sri Lanka \$190, in Madagascer \$250, and in the Seychelles \$1,060.
  - 2.02 The country faces many constraints similar to those facing other small and remote IDCs. Its resource base is parrow, due to its extremely small land and cultivable area (115 aq miles and 0,900 acres, respectively) is relation to its population, and the lack of known mineral resources. As a result, the country is heavily specialized in the two sectors in which it is relatively well endowed, fishing and tourism. The small size of the domestic marked has also ruled out any major import—substitution—based activities. Thus, although the Maldives is among the least import dependent of the world's island nations, there is a large and growing dependence on imports for food and other essential consumption requirements. The openness of the economy as well as its highly specialized nature makes the Kaldives vulnerable in the short term to external events.
- 2,03 A tiny population spread over 202 widely dispersed islands, with tenuous incer-island transport and communications, contributes to the continuing isolation of the atolls wis-a-via Mala and from each other. Dispersion greatly increases the cost of providing the essential social (schools and health care) and economic infrastructure (power and water supply) that is now almost entirely conceptrated in Mala. There are also significant diseconomies of scale. Most immabited islands and some apolls have fur too small a population to support a full-time school or health center. The country as a whole is much ton small to support a wide ronge of institutions and services that would notwally be found in larger countries. The smallness of the population is itself a constraint to the provision of services in that the range of . skilla sveilable is extremely limited, and the task of matching available skills to the jobs needed is far from easy. Thus, must civil servants in the Haldives are undergualized and undercraiped for the tasks they are expected to perform.

<sup>7/ 7/00</sup>TAD V: Specific Action Related to the Particular Needs and Problems of Island Developing Countries: Issues for Consideration, Manile, May 1979, Report No. TD/242.

<sup>2/</sup> Bunk staff metimates; see page 2.15 below.

#### The Maldivian Pall

While the Haldives shares many of the constraints imposed by smallness and remoteness with other IDCs, it is, in some important respects, quite unique. First, unlike almost all IDCs, the Maldives is noither a colony nor a former colony. Its economic relations with the test of the world are sufficiently diversified, end it is not dependent politically or economically on one other nation or trading bloc. Second, although recent developments have greatly strongthered the bargaining power of foreign fishing companies vis-a-vis the Government (para h,20), the country's resources and the means of exploiting thee remain firmly enough in Maldiview hands. Third, the Maldives' remoteness from main trade routes is greatly mitigated by the establishment of an offsetive national shipping line--Maldives Shipping Atd. (MSL). This has helped maintain regular services where the Maldives might ntherwise have been at the mercy of foreign lines. Transport costs have also risen loss than they might have done without MSJ, 1/ The Maldives is, therefore, relacively unfettered by three of the most intractable problems facing other small and reacts IDCs: a colonial or neo-culunial dependent relationship, scommand domination by furnigh companies, and weak transport links with the rest of the world. In addition, the Maldives enjoys seletive immunity from natural disasters. 2/ Finally, Maldivisus have shown great resilience in the face of economic setbacks, like the reduction in Sri Lanka's traditional export market for Maldive fish 3/ by switching to alternative types of fish exports and structural diversification (shipping and tourism).

#### Population and Labor Porce

2.05 The first comprehensive agains was conducted at the end of 1977. An analysis of population trends must, therefore, rely on annual figures provided for each island by the island khatibs and on less comprehensive consumes conducted periodically. Past countration data, which are careliable, show a 71% increase in the population between 1957 and 1977 to 143,000. Population growth accelerated in the 1960s, averaging 3.1% per annum in the 1962-72 period, before slowing down in the 1972-77 period to 2.8%. Population growth in the capital outstripped that of the stolls, agusing the orban population to rise dramatically from around one-terth to over one-fifth of the total between 1967 and 1977. 4/

2.06 Through all the population sommerations since 1901, there has been a predominance of males. In the course of the last generation, the gap has nacrowed only slightly; in 1977, 47.3% of the appolation was female. About 45% of the current population is under the age of 15 and 2.3% over age 65. These figures imply an economic dependency ratio of 1.1.  $\frac{5}{2}$  in the atolls, where both the old and the young show high labor participation rates, the

<sup>1/</sup> See pares 7.52-7.06 below.

 $<sup>\</sup>overline{2}/$  The last twist state was recorded in 1820.

<sup>3/</sup> Sen Chapter IV.

<sup>4/</sup> Statistical Appendix Table 1.1. The 1977 population data for Male and for individual atolla, however, is not strictly comparable with the earlier census data due both to the poor quality of earlier data and differences in methodology.

 $<sup>\</sup>frac{5}{}$  Hatio of population under 15, and 65 and over, to the labor force in age group 15-64 years.

average bousehold still had unly 2.4 unt of 5.6 who wome fully employed, and every employed household member appeared to have to support 1.3 dependents. In Male, each employed person supported 2.2 dependents within the average. household size of 9.7 members.

At the beginning of 1978, the labor force (defined as those aged 2.07 15 and over) was estimated at 60,900 people, or almost 43% of the LoLul population.  $1/\gamma$  Compared with other countries in the region, labor force particle. pation rates are above average for both males and females. Age-sex specific data show that between the ages of 70 and 50 more than 30% of male and 60% of female Maldivians participated in the labor force, while for the population as a whole participation rates reached 51% and 33%, respectively.  $\underline{2}/$  Employment appears to have kept slightly aboad of population growth. Between 1972 and 1977, the numbers employed rose by 3.2% a year. During the same period, there was a slight increase in the proportion of female workers, from 35% to 38% of the total.

2.08The 1977 consus suggests that open unemployment at 5.8% of the labor force is low for the republic as a whole. However, it is a high 15.3% in Male, and an simpat inalgoldicant 3.7% in the applies, 3/ Tec only epolishowing relatively high open unemployment is Secre (11.5%), which was Edversely affected by the withdrawal of the British sir base at San. An analysis of the nature of unemployment auggests that the majority of the unemployed are young (54% of the uncomplayed are in the 99-24 ago group) and male (63% of All unemployed). 4/ The relatively low growth of population in the stalls suggests that the young have been sent to Male in search of jobs, and not all of th≙w have been successful. The capital accounts for 47% of the nation's unemployed; 66% of those imamployed in Male are in the 15-24 age group. Ducompleyment rates in the capital for this age group are a discurbingly high 24%. 5/

Table A: LABOR FARILCHFATION RATES AND UNEMPLOYMENT BY ATOLL CROTE IN 1977.

	Labor Force as % pë Papulation	Imemployment as % of the labor Moree
Northern Atolla /a	46,1	2.7
Central Applis Excl. Male	45.1	3.9
Male	37.0	15.3
Southern Atolla, /b	39.7	5,5
of which: Seeco	80.6	<u>11.5</u>
Total	42.6	5.8

Nam Alifo, Has Dhaslo, Shaviyeni, Moonu, Ras, Bas, Lhaviyani.

Sources: Gensus, 1977; Statistical Appendix Table 1.9.

Gaaf Alif. Gaafo Dhaalo, Guavlyani, Seenu.

Statistics: Appendix Table .9.

Statistical Appendix Table 1.10.

 $<sup>\</sup>frac{1}{2}/\frac{3}{3}/\frac{5}{5}/\frac{5}{5}$ Statistical Appendix Table 1.12,

Statistical Appendix Table 1,11,

For the 15-19 age group, they are at even higher 34%.

#### Level of Social Development

- While employment is alcarly a sorious problem in Mare, the problem 2.09 of purerty in the Malaires is not yet one of open unemployment. The severest privately in to be furified among those who are classified by the densus as "employed." The majority of those who live in the shalls have low incomes, tew assets, and virtually so access to non-religious formal education, health services, and safe water empty. No data are available on income distribution. or absolute income levels in Mola and absolutes. All the evidence, however, points to substential inequalities in income and very low absolute memory innomes in the stolls. The services sector is heavily concentrated in Male, so more than half of the total GDP estimated by the mission (see para 2.15 below). is likely to have becefited the oce-fifth of the population living in Kalo. This implies that average incomes in Male in 1978 were nearly four times the average per capita income in the abolls (around \$100). Data on fish landings , and the distribution of cultivable land by afoll appear to confirm this essesament.
  - 2.19 The average income from raw fish (excluding higher narnings realized from smoked and salted fish) was MR 184 yer head of atoli population in 1975. The samulage varied enurmomaly from apoll to apoll, ranging from the US in Graviyani to MA 375 it haa atoll, 1/ Dato on culcivable area suggests that households on average have one-third of an acro of cultivable land between them or 0.00 screa per person. This also varies regionally from almost no cultivable land in Varyn and Mosson to over one sore per bousehold in Lasmi. Even those very low everage cash carnings are discributed inequitably because: the means of projection are unevenly distributed. There are approximately 2,300 pole and like vessels (which shround for 90% of fish landings) or 11 perinhabited laces. According to the 1977 tensors, filere were approximately 600. owners of fishing heats, implying an average of four boats per owner and three. owners per inhabited island. Concentration of ownership of puls and  $1^4\pi v$ vessels is probably even greater than Explici by the above numbers; a aisable minister of posits, particularly those meduscized, are owned by residents of Male and subliqued to islanders. As noted in para (11) above, bust excepting prowides the means by which a handful of individuals deminate at island economy. A sizable portion of the figh datom is retained by the boat owner, 2/- However, There are a large number of smaller expliing vestels, an average of  $\Gamma I/|
    m per$ inhabited island. They account for an insignificant arount of the lish cutch, but their ownership is more diffused.
- 7.11 Althorga all land is sweed by the Reals, most of the 985 uniquebited islands are lessed out to individuals for indefinite periods, who then submasse it at several times the nominal rents charged by the Government. The lessing of unithabited islands is another source of inequality, particularly since the evidence points to a strong concentration of such (sland lesse ownership in Male. Of the 280 uninhabited islands lessed to non-residents of the stells, 263 (942) were traced to absentee lessebelaces in Male. 37 The lessebelaces of cultivable land on inhabited islands are usually residents of the same

<sup>7 -</sup> Realistical Appendix Table 7.9.

 $<sup>\</sup>overline{\mathbb{Z}}/$  She bare 4.14 below.

 $<sup>\</sup>frac{\overline{3}}{3}$ / Statistical Appendix Table 7.8.

islands or scall; the typical tithe is one-nighth of the produce (except in the case of real trops), sad teaure is insecure.

- 1,12 The low memory incomes, however, are dut so accurate indicator of the standard of living in the atolla, and they contradict the visual impression of a nation that is relatively free of the grinding poverty found in other parts of South Asia. This is partly because cash income from product tive activities is supplemented by unltivation of household plots. Islanders wishing to build a house are entitled to lease 5,000 aguare feet of land (100  $\chi$  50 fect) 1/ im perpotoity and from of real. The Lesson compost soll the Succession is determined by Islamic inheritance laws. In addition, such individual is entitled to plant coconst, breadfruit, or arecenut on the common land, if he agrees to share 50% of his produce with the Covernment. Most islanders take advantage of this facility and the available evidence. (para 6.05) suggests that nutrition levels of the average household in the · atolla are greatly boosted by produce from homescend gardens (cocomics, fruit, vegezables, tuber crops, etc.). Koreover, average housing standards in tho abulls are good in relation to the apparently low money incomes. Over threefifths of stall households are reasonably well protected from the elements, with corel or brick walls and reinforced concrete or galvenized sheet roofs. However, access to piped water or electricity is negligible. 2/
  - 2.13 Other indicators nonfirm past neglect of the social sectors (Table h). April literacy is a high 82% due to the all-pervasive Koranic schools, However, the empliment ratio for children between 5 and 14 years in formal schools is a low 26.9%; across to such schooling is almost entirely confined to Male. All indicators relating to health reflect a situation much worse than the average for 17 low-income developing countries. The national averages also condeat the fact that access to health services, and safe water is almost non-existent in the abolts. No data exist on autrition levels, but WHO and UNICEF surveys show that nutritional anomic and other dictary deficiencies are common.

Table h: SELECTED SOCIAL INDICATORS, 19/7

·	<u>Maldives</u>	Average of Low-Income Developing Countries
Adult Liberacy (X)	81.9	36.0
School Enrollment (% ages 5-14)	26,9	<b>L</b>
Life Expectancy at Birth (years)	46.5	50.0
Infant Mortality Rate (per 1606)	121.0 /e	.· <u> </u>
Death Rate (per 1000)	17.6	. 15.0
Birth Wate (per 'NOD)	44,0	40,0
Natural Population increase (per 1000)	26.4	25.0
Population per Physician	15,894.0	16,360.0
Population per Nursing Porson	3,400.0	9,720.G
Access to Safe Water (% of population)	15.0	28.0

<sup>/</sup>s Ministry of Health data.

Acurcas: Cansus, 1977; World Devalopment Beyont, 1979.

I/ Subject to avaitability of land.

 $<sup>\</sup>overline{2}$ / Scatistical Appendix Table :0.7.

7.14 These indicators are not a fair measure of the quality of life in the islands. The Maldives distinguishes itself from other IXOs by the strong sense of cultural identity, which reinforces traditional community ties. These bonds provide a social security system that is based on family and kinship and has prevented the very poor from falling too far below subsistence levels during times of hardship.

#### The Structure of the Economy

- 2.15 The quality and availability of Maldivian statistics is discussed in Annex it. Aithough the 1977 Gensus has greatly improved the data base, there are large gaps. Date on production and public finance is of pour quality and incomplete, and there are no official national accounts or balance of payments. On the basis of statistical data supplied to the mission, an attempt has been made to prepare production and income estimates at constant 1978 prices for the 1974-78 period. These are rough approximations, useful only as indicators of the overall size and structure of the ecunumy and of recent growth trends. As such, they show a 1978 gross domestic product (GDP) at current market prices of \$72 million and a gross national product (GNP) of \$23 million. The implied per capita GNP is \$160.
- 2.16 The estimates of GDP by categories of expenditure 1/ show that personal consumption expenditure absorbed more than belf of Intal mitput in 1978. Private investment accounted for a further 18%. The government sector as a whole undertook 21% of total spending, which could not be disaggregated as between consumption and investment. The resource balance was positive in 1978: exports and imports of goods and services amounted to 69% and 58% respectively, of GDP. From the available data, it is not possible to estimate the incremental capital-output ratio. The estimates do show a relatively high rate of private consents savings and investment, among which non-movetary boat building, mechanisation, and tourist resort construction play a key part.
- 2.17 The shares of different sectors in GDP and employment are set out in Table C. These show sume of the unlique features of the Maldivian economy: the dominance of the fisheries sector, the extremely small share of agricultural value added, and the importance of the Male region in the economy, as it accounts for the very high proportion of GDP accounts to the services sector.
- 2.18 imployment data from the 1977 census show that employment in fishing and agriculture accounts for 55% of the total; manufacturing, construction, and utilities for a further 26%, and services for 17%. Fishermen are by far the most important occupational group; they numbered nearly 20,000 in 1977. 2/Fish processing and exporting occupied a further 6,300, so that the sector as a whole accounted for 44% of employment. The second single most important group of workers were engaged in handicrafts, about 14,000, most of whom were women. These are totage industries where the women are mainly engaged in manufacturing soir and coir products, mat, textiles, and thatchwowing. Only 10% of workers reported agriculture to be their principal occupation as most facing is done as a secondary occupation on a family basis, during time off

<sup>1/</sup> Statistical Appendix Table 2.1.

 $<sup>\</sup>overline{2}/$  Statistical Appendix Table 1.8.

from fishing or handicrafts. The government plays a minor role in job creation; in 1977, it accounted for less than 6% of total employment. The sketchy data available for earlier years show no significant shift in the occupational structure of the labor force.

Table C: VALUE ADDED AND EMPLOYMENT BY SECTOR, 1978

•	Value Added		Employment	
	MR million	% of total	1000s %	of coral
Primary Production	79	39.7	33.5	55.6
of which: Eishing <u>/a</u>	40	20.1	27.2	45.1
Secondary Production	1 2	6.0	±5.9	26.4
Services	108	54.3	10.4	17.2
of which: Tourism	23	11.á	0.4/ъ	0.7/Ъ
Government	2.5	12.6	2.2 <u>7c</u>	3.7 <u>7c</u>
Total (including not state	ń) 199 <u>/d</u>	100.0	50.3	100.0

<sup>/</sup>a Excluding nummormerized fishing.

Sources: Statistical Appendix Tables 1.7 and 2.2.

- 2.19 The structure of trade reflects that of a fisheries-based economy and has changed little over the centuries. The main export grows have been fish, tortoise shell, Ambergris, and cowries. Contout products, mainly coir rope and copra, used to be an exception to this fisheries-based list. Foreign sales of these products have all but ceased; supplies of coir rope, today, barely most the joint requirements of local boats and the tourist resorts (where it is used for roof and ceiling decoration).
- Francois Pyrard de Laval, a Frenchman shipwrocked in the Maldives, who lived there from 1602 to 1607, reported that the islands' main imports at the time consisted of rice, cooking fat, salt, dates, spices, sugar, tobacco leaf, textiles, cooking utensils, and crockery. The list of basic imports was not very different in the 1970s, but for the addition at their and petroleum products, same electrical and mechanical machinery and equipment, bicycles, and building materials. Changes in the import structure correspond to the gradual modernization of the economy: the use of electric power in a few islands, mechanization of fishing bosts, the spread of radio, television and other telecommunications services, and the growing tourist industry demand for equipment and construction materials. Nowever, consumer goods continue to dominate imports, accounting for four-fifths of the total. Food imports account for between one-third and two-fifths of total imports, reflecting the sizable dependence on imported food.

The densus data appear to underestimate employment in tourism.

 $<sup>\</sup>overline{fc}$  Excluding government involvement in tourism, transport, commerce, and banking.

<sup>/</sup>d Gross dowestic product.

2.21 The stolls south of Male are able to produce a sizable abare of their focd requirements, with fish and locally grown tuber crops as staples. In general all abolis have some to rely on imported time, sugar, spices, homeehold utenails, kerosene, diesel fuel, timber for boot building and construction, butteries, and redicines. Except for fish and basic construct time materials, the population of Male imports practically everything that it consumes or invests in. Keafe, has, and other stolls supply some of Male's fruit and vegetables, but transport of food produce is always a problem, so that the capital and tourist resorts rely mainly on imports, even for food—studie that one be produced locally. Import dependence (not of imports means for re-expert) for the whole economy amounted to a comparatively modest 3% of GDP in 1978; as the bulk of imports is destined for Male, import dependence in the abolis was well below this level.

#### The Institutional Francwork

- 2.22 Until pacently, the Government has had no commitment to planned economic development. Intervention by the Stand has been analized to a few key initiatives regarded as vital to the interest of the nation. These include the establishment of a snipping line, the canalization of essential imports and the bulk of expects through 5TC, the invitation to foreign fish-purchasing companion to operate in Maldivian Waters, and the related methanic sation of fishing vessels, and most recently, perticipation in the tourist industry and the construction of an interestional sirpert. Typically, these interventions have been ad her responses to individual crises or the result of personal initiatives by the President or someone close to him. Until the establishment in December 1978 of the National Planning Againy (NPA), no attempt was tade to set these initiatives in the context of a larger development strategy. The social and accommic neglect of the shorts bears testimony to the lack of a development program.
- 2.23 The country's major economic institutions are a product of this pulicy environment. They are simple in hardre, designed to handle the routine functions the government conformed in what has, till recently, been a rather simple accounty. Towaring over all other institutions is the STO which evolved from the State-owned Rodu Stores of the 1960s. Bodu Stores used to handle all escentia) imports and acted as the Government's local bankers while the Maldivian National Trading Comporation (MNTC), hand in Colombo, dealt with the Government's foreign financial operations. STO continues today to play a domin ment trading tole; it is also the Suvernment's bookkeeper. STO's 70 employees are arganized into four sections: imports, foreign exchange, business unit, and trade information unit, plus a head office. STO reports to the President through the Department of Pinance. In the previous Government, it was closely expervised by the President. Tuday, it appears to Enjoy schewhat greater schoonly. STO is both expected to and has accorded in making a profit, which is transferred to the bunger; it amounted to 14% of all estimated 1979 revenues.
- 2.26 SIO's profits arise from its trading activities. 8TO enjoys a monor poly over exports of freeb and dry skinjack, other fromb fish, and lobstate. It also handles all imports of essential food products: sugar, rice, wheat fibur, beby foods, medicines, and the bulk of the country's patroleum product requirements. While STO we longer has specific monopolies over these imports,

its were at an inflicial accounting sate (MR  $3.93 \pm 0891.00$ ) to convert a11foreign exchange transactions enables it to sell these products at priggs with which private importers could not compete. The use of the accomming rate as a reference point in the determination of trices baid for all STO dumestic purchases of fresh fish has meant that flakermen have received half or less of the internetional warket price for their fish, in effect paying a tax or levy to the Government amounting to between 30% and 55% of grass easnings, depending on the prevailing differential between the free and obficial accounting rate. \$10 has used its "profits" on fish exports to partially subsidize essential imports. Goods imported by STC and valued at the secondring rate are subject to customs duties, 1/ plus 5% commission to the STO business upit, plus 5% STO profit, plus a fixed tradera' retail margin of 10% for sales in Male. Sales in the atolls are at prices 5% above those in Male to cover transport and other costs. Allowing for fluctuations in the exchange rate, the effective subsidy on goods imported by STG ranged from 5-25% of the cif import price between 1974 and mid-1979.

#### Money and Banking

- 2.25 The Government's backing and munchary policies, such as they are, have been left to the Department of Finance. The Department of Finance issues correctly when the government's budget is in overall deficit. There are no banking laws, socreacy or exchange regulations. The Government has, in constitution with the International Munctary Fund (LMF), begun to draw up legislation to establish a Mariives Munctary Authority (MMA). This new supporting will take over the Department of Finance's correctly issue functions and treasury Division, and eventually the STO's foreign exchange accounting weedlook. Iditially, the MMA is expected to issue correscy, advise the government on banking and monotary matters, supervise compercial banks, and promote demestic and external monetary stability.
- 2.26 The correctly, the Maldivian rupse (the name may be changed to Rofiysa), was introduced in 1947, to replace the Geylonese rupse. It circulated alwayside the pound sterling antil the British withdrawal from the Ganair base in 1976. The Maldives is still officially part of the Overseas Sterling Area, but the US dollar has replaced the pound as a secondary currency, used particularly by the tourism industry in the Male region.
- 2.27 Despite the lack of banking legislation, two foreign commercial banks have branch operations in Male: the State Bank of India established in 1974, and the Habib Bank Ltd. (Pakietan) established in 1976. They have operated according to banking principles established in their own countries, adapted to the particular conditions of the Haldivian market. The establishment of the KMA, together with interest rate policies that actempt to provide positive real interest rates, and the enactacat of banking, company and more gage laws (para 3.27), would enable the banks to play a more positive role in the mobilization of domestic savings.

Import duty rates: rice, sugar, wheat flour, becosene, baby foods, and medicines 15%; beverages, cobacco, and other food items 20%; textiles 25%; and other items 30%.

#### The Budget

- The Department of Finance has formal responsibility for budgetary 2.28However, the budget has been treated more as an accounting exercise than as a policy instrument. Every year, individual government departments present their expenditure estimates for the coming year, based on the current year's parame. The cotal of these estimates is presented to the Majlis to vone on as a whole with no opportunity to discuss allocations to individual ennumber sectors or types of expenditure. Although budget expenditures are classified into non-development and movelopment expenditures, this distinct tion is wholly artificial as all of the former, and most of the latter are really concent expenditures. Current and capital expenditures financed by external loans do not enter the badget. If in addition, during the financial year the Majlis may be asked to approve one or more special value, or extrabudgetery allocations for particular causes (such as the Male Meclamation and the Special Arcil Budgets introduced in 1979). These do not show up in budgetary expenditure totals.
- In the past, no attempt was made to forecast revenues; expenditures were pegged to the provious year's revenue realization. The 1980 budget expenditure projections will, however, be matched against projected revenues. Non-tax revenue, mainly profits of public aector enterprises, increased from 20% on 48% of total receipts between 1960 and 1978. Until 1979, there were no direct taxes. Indirect taxes, mainly import and export duties, accounted for most fiscal revenues. Import duties in 1978 (MR I million) were less than half the 1960 receipts (MR 2.1 million); export duties have shown little growth (at current prices), and a steady cactine in real terms. While indirect taxes yielded half of total revenues in 1960, they produced only 17% in 1978. This represented as insufficient fiscal effort. Allowing for the implicit tax on fish exports, taxes as a percentage of GDP were a meto 7.4%. Moreover, 80% of tax revenues come from fishing, which accounted for one-third of 1978 GDP.
- 2.30 Until 1979 the Government make no use of fiscal policy in medaging the economy, rolying largely on income generated by profits from public enterprises to finance expenditure. Showing budget deficits in the last few years have brought a change in attitude. In 1975, government departments were asked to suggest new ways of raising revenue. As a result, new taxes on fourism were introduced in 1979 and higher expert and import duties and a wider duty base in 1980.

#### Trade and Exchange Rate System

Poreign trade, until this day, has been a justiceary guarded prerogative of Male. Only during the British Lemancy of Gan did goods come into an outlying shell without first passing through the capital. A firther exception to Male's trade monopoly concerns fresh fish which is now sold directly to foreign commercial freezing vessels, but all related payments are made through the STO headquartered in Male.

I/ Expenditures financed by external capital grants are entered in the budget, except when such expenditures are incurred directly by Walebased UN agencies (Statistical Appendix Table 3.9).

- 2.37 Foreign traders have traditionally played an impurtant part in Haldivian chamber. In the 1860s, Bobra traders (Muslim merchants from pestern India) were first allowed to settle and establish godowns in Male. One of them became particularly powerful because he financed the Sultan's extravagances. His special privileges were withdrawn in 1899, but Indians and Ceylonese continued to dominate Maldivian trade. Today they handle must foreign trade not controlled by STO (see para 2.24 above), and local whole—sale operations. Domestic retail trade is reserved for Maldiviane, as is all inter-stoll trade. Restrictive crade policies in neighboring India and Sri Lanka have beloed to create a thriving entropot business, also the by Indiana and Sri Lankans. Goods imported beto the Maldives, particularly from Japan and Singapore, are informally re-exported to India and Sri Lanka. 1/ Pew of the resulting profits stay in the Maldives.
- Trade and exchange rate policies consist of a namber of unrelated systems and regulations that are administered by the Department of Finance. There is no exchange control lagislation and no administrative restrictions on current and capital exchange transactions. However, private exporters of goods than originate in the Moldives (those over which 510 pollonger has a monopoly, but excluding products of export-processing industries) are required to use their export earnings for imports within a period of one year. Trade under this export-import linkage system is subject to both export and import öytiga, as ia mli 5T0 irade. Expert-proceasing industrios and rα-experts are free from export duties. There are an controls or restrictions on forcign exchange earnings. Private imports, outside the export linkage acheme whother for Incal consumption or for re-export, are exempt from duling. Travelers are from no bring in or cake our domestic or formign currency, subject to declaration. The Government does not require accounts of non-residents to be separrately maintained, nor does it require permission to usintain screigt correctly accounts at home or abroad. Direct formign investments in the "aldives require prior approval from SIFI, under a new Foreign Investment (34) ence is given to improximent projects that contribute to development at the outer stolla, provide copinyment and training to Maldivisor and to projects that cannot be implemented by local investure either because of the size of the investment required or because of lack of local technical expertions. The law also provides for free comittaneous of profits and investments may be granted tax exemption for up to bed years.
- 2.34 The exchange rate of the Maldivian rupes is determined in a free marked by the interplay of the commercial banks and the open market, Consisting mainly of private traders and Consist reserts; 270, however, intervenes from time to time in the free market. It the second half of 1979, the market rate sveraged M& 7.50 = US\$1. The 370 uses the ufficial accounting rate of dR 3.93 = US\$1 as a reference point in determining formestic prices of the expense and imports and the invisible transactions for its own accounts as well as the Government's.

i/ With import liberalization is Bri Lacks since 1977, Th-exports to that country have diminished in importance.

# III. RECENT ECONOMIC PERMORMANCE AND DEVELOPMENT ISSUES

ECONOMIC PERFORMANCE, 1974-78

#### Production

3.01 lentative Bank staff estimates of the GNP of the Maldives (see para 2.15) for the 1974-78 period show an impressive growth of the economy. This is attributable to the capid expansion of the momentized contains for general, the renevery in fishing and the energence of theritam as a major new sector. GDP at merket prices grew 12.5% per annum in four years. There were sharp fluctuations in shipping profits transferred by MSL, which acrount imm most of the irregular frend in the lactor service reneipts. Nevertheless, estimated GNP grew by an average of 9% a year between 1974 and 1978, to US\$23 million. GMP per head is estimated to have increased by 6.2% per annual at constant 1978 prices and exchange rates.

Teble D: GROSS WATIONAL PRODUCT (Constant 1978 prices in USS million)

	<u> 1974</u>	i <u>975</u>	1976	1977	<u> 1978</u>	Rate of Growth X Per Annum
Gross Bocestic Product	14.u.	:3.7	17.3	20.7	22.5	: 2.5
Gross National Product	16,5	35.3	18,8	27,6	25.5	9.N
Population (1000)	132	135	i39	143	147	2.8
Per Capita GSS (US\$)	125	113	135	258	158	5.1

Snurne: Statistical Appendix Table 2.1.

- Fluctuations in <u>fisheries output</u> have a major influence on tropds in the common as a whole (para 4.02-4.03). The pariod since 1975 is characterized by a guadual recovery in fish landings after they plummated from a seak level of 35,400 tona in 1974 to only 25,200 tons in 1975, due to the voictility of skipjack fishing. The fall out deeply into export earnings, which showed a year-to-year decline of 34%. If sh landings have not yet recovered their 1974 level, and the export volume (liveweight) in 1978 was still 25% below the comparable total for 1974. As increasingly large proportion has been seld in the form of relatively less prefitable bresh fish tou freezing by Eareign purchesing companies. However, some important structural changes took place during the period about will affect future production and export counings, rotably the aid-financed mechanization of traditional fishing vessels end a further diversification, particularly into dry salted fish and dry shark figs. Roth of those new expert products are comparatively highvalue non-periabshles, neither of them subject to an STO export munapoly and less dependent than fresh fish production on uncertain fuel supplies.
- 3.03 Agriculture plays a minor part in the aconomy; production data are poor and an indesequent inside to use the sector's performance. The main food crops are millet, sweet potatoes and various tubers, coconut, broadfruit, and banana. Most crops are cutsemed by growers or barrered. Commercialization

of crops is inhibited by the lack of cash markets, except Male, and by transport difficulties. In the last ten years, output has about a generally declining trans with wide year-to-year fluctuations in production of individual crops.

- Tourism has been the major economic growth sector of the mid-1970s, with gross foreign exchange earnings growing at 47% per somm. In 1978, for the first time, fishing was overtaken by Lourism as the principal foreign exchange earner (pars 5.10). Resort capacity has expanded rapidly and the number of courist arrivals grew from 5.000 in 1974 to 23,000 in 1978 (pars 5.06). Occupancy rates are satisfactory and on a cising trend, particularly in the low sesson. They would have been even higher but for air transport conscraints on the Male-Colombo sector. Completion of the \$19 million Holds airport expansion project and increases both in the size of electraft flying into the Kaldives and in service frequencies will go a long way in overcoming these problems. More resorts are under construction, and capacity is expected to grow at an annual rate of about 8% in 1979-82.
- 3.05 Shipping also made an important contribution to the diversification of export earnings during the 1970s. M9D profit transfers meached a peak of \$2.7 million in 1975. They fell to \$0.9 million in 1978 as the profitability of vessel operations declined and as the company undertook a restructuring process, which usuald MSL to cause profit tradefers to the Government in 1979 (para 7.05). But earnings are expected to stage a decovery in the early 1980s.

#### Monetary Treads

The volume of Maldivian currency issued grew from MR 15 million at end-1976 to MX 22 million in June 1979, an average annual growth mate of LSX. The growth is ascribed tainly to moretization of the atoll fishing economy and to government definit financing needs. There are no deta on the volume of dollars in nirrulation, except for those held with the commercial banks. Since they started operations it Male, the two commercial banks have experienced a rapid growth in deposing. The absence of a central bank and leader of last. resort, the lack of local financial investment opportunities, and the predominames of a few large depositors with unpredictable cash requirements, have compelled the banks to remain fairly liquid, by maintaining non-interestbearing deposits with SIO. Nevertheless, credit to the private sector grow-Seem MW 2 million at end-1978 to MM 21 million at mid-1979. About half of notal back lessing himanous trade transactious while tunnist resorts accounted for about one-third of advances outstanding at the gnd of 1978. Boat-building and construction leans made up most remaining private horrowing. Most lending is on a short-term basis (three months), after which bost terms are adjustable. Communation cards (interest) and based on the New York prime tate plus 1.5%. Deposits each 4% a year on rupeea, 3% on dollars; five-year rupee deposits corn up to 7.6%. The absence of contract law and tegislation covering teaser hold acoderty became a serious, but probably temporary, constraint to bank lessing operations in 1979. With both short- and long-term solutions possible to this problem, commercial banking is expected to maintain its growth momentum. in line with the expansion of private foreign trade and in particular, tourism.

# Budgetary Developments

- Coverament budgeting practices have been convervative. Nevertheless. the budget moved into deficit in 1974. Since then, the revenue shortfall has iscretaed rapidly mainly because of declining protit transfers by MSL and STO. The only fiscal receipts of any importance until 1977 were costoom duties on imports and exports. A comporary suspension of dubies in 1977/7d caused a sharp fall in receipts. These were expected to recover in 1979 and will show a big increase in 1980 as proposed new duty matea go into effect. In Movember 1977, a dollar-denominated airport departure tax was introduced, and two new tourism taxes, also dollar-denominated, came into effect in 1979. The major non-fiscal revenue source, profit transfers by public enterprises, has fluctuated widely, in line with changes in MSL performance. Since 1977, Matdiver International Airlines has made increasing contributions to the total, but not enough to diffeet the irregularity of MST. transfers, and their complete stoppage since mid-1978. Relimated revenue for 1979, in current torms, was expected to be 19% less than in 1974--still an improvement on 1976 when they were 37% below the 1974 level.
- 3.08 Budget spending rose at an average ennual rate of 12% in 1974-79. The biggest increase took place in expenditures on the social sectors, transport, and communications, where proposed outlays for 1979 were double the 1974 total. Does than 40% of 1979 estimated spending could be mot from ordinary revenue. The deficit was expected to be covered by the issue of contempart funds. The actual size of the budgetary deficit is distorted by the use of the official accounting rate. Dollardenominated receipts, such as MSL and other public enterprises' profits transfers, and revenue from sirport and tourism taxes are incorporated in the budget at the low accounting rate of MR 3.93 = TS\$1. At the end 1979 market tate of exchange of MR 7.50 = US\$1, dollar-denominated revenues yielded twice the amount officially recorded in the budget (about one third of total revenues). Similarly, the direct import component of government expenditures is converted at the MR 3.93 rate.

Table E: TRENDS IN PUBLIC FINANCE, 1974-79 (HR million)

	1974	1 <u>975</u>	1976	<u> 197</u> 7	<u>1978</u>	<u> 1979 /a</u>
Total Kevenue of which:	18.7	23.0	17.2	211 . 7	(1.7	16.5
Tames Net Receipts from Public Enterprises	).4 11.8	5, n 17.3	0.5 15.9	0.1 8.81	3.1 5.7	7.8 8.2
Total Expenditure	<u> 22.i</u>	27.4	35.7	<u>38.J</u>	41.1	<u> 39.5</u>
Balgone financed from:	-3.4	-4.4	-15.5	-17.6	-29 .4	-23.0
Owo Resmitter /b	3.4	4.4	15.5	9.2	7.4	1,1
Externel Assis <del>la</del> uce (grants) /c	-	_	-	8.4	16.7	:2.4
Deficit Finguaing	_	_	_	_	5.3	9.5

<sup>/</sup>a Revised Estimates.

<u>Source</u>: Statistical Appendix Table 5.1.

 $f {f b} = {f A}$ ccumulace ${f c}$  surpluses and other cash belances.

 $<sup>\</sup>overline{f_0}$  - Disbursements from consterpant funds.

#### Wages and Prices

- 3: 09 Data on wages are fragmentary. The Government is, by far, the largest employer, and wages paid by it in Male's monetized economy operate as informal minima for the private sector. Almost 77% of the 5,600 government employees in 1979 earned less than MR, 200 per month 1/ (\$26 at the market rate of exchange); among them, the 900 lowest poid carned less than MM 100 per month. The top 1% of government salaried staff earned woothly salaries of MR 800 and over, showing a comparatively high 8:1 differential between highest and lowest paid. The government is the only sector to have formal pension grrangements. Government wages are rigidly atructured and, until the 10-15% increases announced in July 1979, have tended to remain unchanged for years. Wage levels in other services sectors are generally higher than in government. In tourist resorts, roomboys are paid MR 5 per day for a six-day week, plus board and lodging, equivalent to monthly earnings of MR 200. Chefs and managerial staff care up to MR 1,500 per month. In backing, the minimum wage for a clerk was MR 400 per month. Sales workers in 1979 started with MR 120 per wonth, plus fund allowances, often paid in kind. The resort construction borm has caused shortages of skilled building workers in the Male region, and wages rose as much as 50% between mid-1978 and mid-1979. By then, a akilled wason or carpenter was being paid up to MR 500 a scath, plus food allowances. There is no minimum wage legislation, no social accurity system, and only one trade union, the Maldivian Seafarer's Union, started in March 1979, for crew members working on ships belonging to MSL and foreign companies.
- 3.10 Wages in the primary sectors follow their own particular patterns. Fishing bost crews operate on a share basis. Share systems vary between atolks, and between mechanized and sailing vessels (see para 4.14). Indicative earnings levels are MR 790 a year per crew member on new mechanized vessels compared with MR 660 a year for a sailing craft fisherman. A skipper earns about double if he does not now the vessel. Vessel owners' earnings range from MR 2,500 a year or sailing vessels to MR 8,000 on the most efficient mechanized bosts. Apart from subcontracted coconit picking, there are practically no agricultural wage extners; production is Mainly for home consumption or barter.
- 3.11 Since the hijor proportion of earnings are spent on food, the sizable imports by STO of essential foods, like rice, sugar, wheat flour, and baby foods which are sold in the local market at subsidized prices, have made an important contribution to keeping down the cost of living. However, prices of other essential consumer goods and rents have generally gade up, so fixed government wage earners in Male have seen their already minimal standards of living rapidly eroded during the last few years. The price of frosh fish, which accounts for an estimated 30% of consumer expenditure, has risen by 70% aince 1976. Inflation is estimated at about 15-25% per annum, 2/ There are no data on price treads in the stolls. Price controls also apply there, although fixed prices of individual products would be at least 5% (the allowed transport cost margin) higher than in Male.

<sup>1/</sup> Statistical Appendix Table 9.1.

 $<sup>\</sup>frac{1}{2}$ / LMS staff pacisate.

Table F: PRICE TRENDS FOR SELECTED COMMODITIES IN MALE, 1975-79 (1978 = 100)

	<u>1975</u>	<u> 1976,</u>	1977	<u> 1978 </u>	Пицетвит <u>1979</u>
Rice, Ordinary	68	107	95	200	152
Sugar	90	223	109	100	95
Wheat Flour	50	94	92	£OU	129
Shirting Material	94	94	94	0.00	115
Cocumils	59	117	176.	100	103
Prosh Fish	57	71	57	300	121 -

Source: Statistical Appendix Eshle 9.2.

#### Balance of Psyments

1.12 Available cate on merchandise trade, or roomism, shipping, and insutance custs, as well as various factor and non-factor servic≞a, mede it presible to estimate the balance of payments for goods and services. But information on current transfers and capital movements in both public and private sectors is substiblished by. These translations are not subject to any cumbrols and have not been monitored systemstically, except in the public sector, where some records are kept by individual departments and public enterprises. External borrowings are excluded from existing remords of official transactions (mainly the budget and STO Accounts). Changes in foreign assets, as reported by 910 and the backs for the period 1976-78 show wite fluctuations in relatively small nutais. Most fereign assets of \$2.5 million held by STO and the banks at ond-June 1979 were barely snough to cover a further month and a half of imports at the rate meintained in the first six months of the year. In reality, with dollars circulating freely alongside the mational currency, the considerable furnigh funds hold by traders and toughts. temort upersture, if remorded, would have shown a much less strained foreign exchange position.

3.13 Information from various private and government courses anabled the mission to make tentative estimates of external payments for goods and services. The results, for the period 1974-76 1/, show a suspice on current account every year except in 1975, when bish exports in the sharply. Tourism earnings were the major growth factor. They increased almost five-fold, from \$1.22 million in 1974 to \$5.78 million in 1978, when they were large enough to cover the whole merchandise methods, and an aring the resource balance into surplus. Not income from factor services until 1978 consisted mainly of profit transfers by M31. In 1978, these transfers were only half what they were in 1977 and barely one-third or the 1974 count. Remittances by M31, crows, who are paid in foreign exchange, grew from \$42,600 in 1976 to \$220,000 in 1978.

f/ Statistical Appendix Table 3.1.

Table H: TREMDS IN PRINCIPAL EXPORTS /a (Current USS million)

	197	4	197	В	Annual Kate of Change
	\$ million	<u>As 7</u>	\$ million	AB Z	(3)
Total Exports of which:	3.96	100.0	4.09	100.0	<b>+</b> 0.8
Dry Sklpjack Fresh Skipjack Dry Salted Fish Dry Sherk Kins Tortoise Shell	3.u3 0.7u a 0.10 0.03 0.06	76.5 17.7 2.5 0.8 2.0	0.21 2.54 0.67 0.34 0.05	5.1 62.1 16.4 8.3 1.2	-48.7 +38.0 +61.0 +86.0 -11.6

/a Excluding sc-exports.

Source: Statistical Appendix Table 3.2.

- 5.17 Export prices performed irregularly between 1974 and mid+1979, while the price of fresh skippeck rose from \$150 to \$260 per metric too, the price of Maldive fish declined from \$850 to 8780 at correst prices. It is mainly because of the growing share of fresh skippack in total exports that the export price index 1/ showed a rapid improvement during this period.
- 3.18 Basic foodstuffs and other consumer goods dominate the structure of Maldivian imports. Food imports reached a peak in 1975 when they accompled for almost 60% of the total value of imports. 2/ Sugar was the biggest single food item in 1978; in earlier years, except for 1975, rice was more important. The value of other consumer goods in total imports rose from 47% to 63% between 1974 and 1978 so that consumer goods as a whole accounted for 95% of imports in 1974 and for 83% of the total in 1978. The share of petroleum products is still small, but has risen twelve-fold between 1975 and 1979, reflecting the gradual machanization of the fishing fiest, the tourist industry's requirements for energy and transport, and higher prices. Intermediate and capital goods accounted for less than 10% of imports in 1978. 3/ Preliminary 1979 data show a massive 58% increase in imports to a record 522 million, due largely to sigable increase in food and petroleum imports.
- 3.19 Average inpuri prices paid by STD for rice, wheat flour, and augar have come down sharply since 1974. Nevertheless, a gradual change in the structure of imports with the emphasia shifting from relatively low value high bela foodstuffs towards high unit value, low-bulk consumer goods and intermediate and capital goods, and an overall increase in import volumes have caused the total import bill almost to double between 1974 and 1978.

<sup>1/</sup> Statistical Appendix Table 3.6.

<sup>7/</sup> Statistical Appendix Table 3.4.

This probably excludes aid-financed intermediate and capital goods imports for the Euleke simport project. Moreover, the data available to the mission did not permit a detailed analysis of imports by SIIC classifications. Such an analysis would probably raise the share of intermediate and capital goods imports.

Table G: SUMMARY BALANCE OF PAYMENTS FOR CHORS AND SERVICES (US\$ million)

	<u>1974</u>	<u>1975</u>	<u> 1976</u>	<u>1977</u>	1978
Exports of Goods and MF3 Imports of Goods and MFS Resource Salance Factor Service Income (net) Current Account Balance	6.85 -0.14 2.56	5.33 6.81 -1.48 1.58 -0.10	6,69 5,53 1,46 1,48 2,64	8.96 9.17 -0.21 1.90 1.69	15.65 13.13 2.52 0.77 3.29

Source: Statistical Appendix Table 3.1.

- 3.14 Merchandise export earnings, including re-exports 1/, rose from \$5.5 million to \$9.6 million between 1976 and 1978, an average annual growth rate of 15%. But merchandise imports increased by 18% a year, from \$6.8 million to \$13.1 million, resulting in a fluctuating but persistent trade deficit throughout the four-year period. The deficit reached record proportions in 1979 due to a sharp rise in imports. The coverage ratio of imports to exports including re-exposts ranged between 50 and 80% in 1974-78, our probably 58)1 below 50% in 1979.
- 3.15 STO handled between 70-96% of all export earnings during the period from 1974 to mid-1979. Because of the growing importance of dry, salted fish exports, which are not handled by STO, the latter's share of export trade has been somewhat reduced since 1977. STO's share of imports declined as the value of private sector imports, including those destined for re-export, rose from 33% of the total in 1976 to 53% in 1977. Because of low rice imports, 5TO's share of imports fell further in 1978.
- 3.16 The current value of recorded exports tose by less than 1% a year between 1974 and 1978, from HSS3.96 million to US\$4.1 million (Table H). This four-year period must be considered essentially as one of recovery in fish catches after a stumatic drop in 1975, and of attructural readjustment to changed market conditions in Sri Lanka, previously the main export market. Preliminary 1979 data show a 12% increase in recorded emport earnings to \$4.6 million.

<sup>1/</sup> The value of re-exports is a Bank starf estimate. See Statistical Appendix Table 3.1.

Table E: TRENDS IN PHINCEPAL IMPORTS (Current US9 million)

	197	4	197	8	Anouel Rate of Change	
	\$ million	As Z	\$ million	<u> As X</u>	<u>(%)</u>	
Tutal importa of which:	6.79	100.0	13.07	100.0	+17.8	
Rice Wheat Flour Sugar Potroleum Products <u>/b</u>	1,33 0,76 1,12 0,12	19.6 11.2 16.5 1.8	9,09 0.56 0.85 1.20	0.7 4.3 6.5 9.2	<u>/a</u> -7.3 -6.6 +80.0	

 $<sup>\</sup>frac{Ia}{Ib}$  Growth trend is meaningless because of unusually low 1978 rice imports. Excluding lubricance.

Source: Statistical Appendix Table 3.4.

3.20 Setween one and two-fifths of annual Muldiviam imports since 1974 have been destined for re-export. This correport trade covers high value, low-volume consumer goods such as diggrettes, textiles, clothing, watches, radius, and other portable consumer durables imported mainly from Japan and Singapore to be smuggled into India and Sri Lanks. The trade reached a peak (\$5.5 million, or 57% of total exports) in 1976 from which it is expected to decline, mainly because, from 1980, it will no longer be able to take advantage of the Maldives' virtually duty-free private import market. New duty rates correctly under consideration will wipe out the entrapet traders' margins since they are unlikely to be granted rebates or exemptions. The net loss to the balance of payments is likely to be negligible.

#### External Assistance

ODA commitments to the Maldives from all sources averaged \$5.2 million between 1974 and 1978. Not reneipts of aid, excluding grants from private voluntary agencies and centrally planned commonies between 1974 and 1978 averaged \$3.5 million. BAC member countries accounted for 44% of recorded met receipts, multitatoral agencies for 17%, and bilateral sid from OPEC member countries for the pemainder. This total includes technical assistance and food aid. The Maldives issee not maintain systematic data on aid inflows. It has, however, begun to provide data to the IPRD Debt Reporting System 1/. According to these submissions, commitments in 1978 tase to \$12.2 million. including \$9.2 million from Saudi Arabia for the Eulule airport expansion. Prior to 1976, the bulk of assistance was in the form of grants. New debt contracted since them has continued to be on predominantly soil terms: an average interest rate of 1.9% and average maturity of 13 years (five years) grace), implying a grant element of 52.5%. Nevertheless, projected debt service payments are estimated to rise from less than S16,000 in 1976, and \$44,000 in 1978 to \$1.8 million in 1985.

<sup>1/</sup> Statistical Appendix Tables 4.1 and 4.2.

Table J: MET RECEIPTS OF OFFICIAL DEVELOPMENT ASSISTANCE 1974-78 (USS million)

:	.1974	<u> 1975</u>	1976	1977	1976
Total Net Receipts of which from:	0.61	3.25	4.30	2.39	6.BB
DAG Member Gountries <u>/A</u> Multilatoral Agencies /b			-	1.21 1.04	3.74 1.04
Othera <u>/c</u>	-		2.84		2.10

/a OECD Development Assistance Committee member countries.

7b Including Arab and OPEC-financed agencies.

/c Eilaterel aid from UPEC countries.

Source: Statistical Appendix Table 3.8.

#### DEVELOPMENT ISSUES

3.22 The maintenance of an open economic system, combined with at hoc yet strategic interventions by the Scate are, in part, responsible for the impressive economic growth performance of recent years. The Maldives has been remarkably successful in directing investments into areas where its comparative advantage is strong: fishing, shipping, and thurism. While all three sectors are currently experiencing the pains associated with rapid growth, the investments already made are potentially a sound foundation for future growth, and capable of generating some of the resources medded to reverse the severe policy neglect of the stolls. This is provided, of course, that the government continues to operate an open economic system and begins to establish the necessary institutional and policy transework conductive to growth. While the prospects for growth and the development strategy to be pursued are discussed further in Part C, it is appropriate at this stage to identify a few areas where there are significant policy or institutional weaknesses, particularly since these have a bearing on the sectoral discussions that follow in Part B.

#### Pricing Policy

The first major area of concern is the explicit end sizeble price distortion that arises from the use of the official accounting rate to deparmine the domestic prings of exports and imports handled by STO (see para 2.24) above). This practice enounce to a nefty tax on Ireal fish exports, the proceeds of which are partially used to subsidize food imports, which are mainly consumed in Male, and to boost government revenues, which are mainly spent in Male. Thus, while the atolle, where most of the figurezen reside, bear the economic cost of the system, they do not reap proportionate benefits. The system results in an inadvertent but undepirable transfer of resources from the relatively poor fishermen to the relatively well-off in Male. Moreover, the stall fishing industry, for an equal amount of exports, receives a considerably lower met income in local currency terms than Male-based tourism or speculative luxury house-building for rental to foreigners. In the medium term, this will attract resources away from fishing to relatively more profitable sectors. To the extect that this system also results in subsidized imported food prices, it acts as a depressant on igneoutives for domostic agriculture.

# The Policy Bias In Male's Favor

By discriminating against the two rost important antivities in the apolls, fishing and agriculture, STO's pricing policies serve to perpecuance regional income disparities. Thus, they reinforce all the other factors working in favor of Male and against the stolls. The incomes derived from the Government sector, and from shipping and focular are all centered on Malnu-This is also true of most recent public investments, such as the \$19 million Hulule simpart project, the Main land reclaration project, and the majority of new investments under consideration. The beavy contentration of rescurces in Hale accounts for the sizable immigration to the capital. This immigration is ant without costs. It economic terms, it is forming the Government to plenghresources into Malo and only to upgrade examptial services, but also to keep up with a population expanding at 13% per annow. In social terms, it could eventually lead to tensions. Cocmployment among the young is high, that first " warning signal that jobs in the capital are not keeping pare with the inflowfrom the apolls and that immigrants lack the skills needed by such growth sectors as government and tourism. The lack of population and regional development policies is particularly serious in this respect.

# Financial Resourges,

3.25 Reversing the past neglect of the atalls and coping with the sizable meeds of Wale will require a considerable development offers which will undoubtedly strain the country's limited financial, administrative, and manpower resources. As noted in para 3.08, the basic budgetary position is weak. The tax burden remains relatively low  $(7.42~\mathrm{nf}~1978~\mathrm{GBP}~\mathrm{if}]$  the implicit fish tax is included) and uneven in its impact, with the burden on Male relatively light, and the stolls accomming for 78-80% of tex pryennes. The size of the fiscal effect will be increased and its distribution widened by the new courism based maxes,  $1/\epsilon$  The age of the official accounting rate for foreign exchange conversions and for dotermining the duty base for customs levies coprives the Guyerment of sizeble additional revenues. Further, the governtwint makes no effort to poblike private savings through local borrowings. most atflice sevings schemes, etc. All this results in an excessive dependence us usserbain receipts from public opterprises that are managed with varying degrees of efficiency. The sizeble uncovered deficits experienced in recent years are a recipe for inflation. Intil the Government is able to generate a surplus to finance at least a modest portion of loc≳l costs, a viable develup ment program based on external assistance cannot be mounted.

# Menpower and Administrative Resources

3.26 Manpower and administrative resources are also a serious constraint. The nountry busses only 1,400 people who have completed secondary school, and only 56 university graduates. Moreover, it deploys these limited resources in an unproductive manner. Maldivian administrative arrangements were scudied

<sup>17</sup> See also para 5.12.

in detail in 1974 by a Ch advisor on public administration. 1/ The advisor's report recommended a gradual reorganization of the structure of ministries, government departments and agencies, appredict of the quality of government personnel, attending of work procedures, and the setting up of a supportive system such as a Public Administration Unit. Since them some improvements have been made, but major weaknesses persist; these concern:

- (a) The continuing fragmentation of departments (at least 60) within an uncoordinated system: this not only puts an unnecessary strain on limited manpower resources, it prevents the setting up of larger units within which staff can give and receive training as part of a clearly perceived career structure; individuals are moved from one department to snother with little regard for making use of specific skills or for developing expertise in particular fields; the excessive compartmentalisation has also led to duplication, over-lapping of functions, and lack of coordination.
- (b) The few skilled and/or experienced senior government offidials find themselves burdened with both executive and administrative responsibilities, as there are practically ao experienced middle-level administrators. These officisls ere also poorty rewarded. The civil service pay according, with fixed salary scales, is out of date and wholly out of ling with private sector apportunities. The gayernment has been able partly to dirgumuent the personnel problem with ita indeuture system, whereby beneficiaries of a state accomplacy education and of further education courses abroad are required to work for the Government for up to five years after completing their atudies. Many of the able young people now occupying senior government positions are doing so to fulfill their metional service obligations. Very few Maldiviane remain abroad after study courses specifically to avoid being indentured, a reflection of the strong ties that bind them to their come country. Equally few, however, are compled to stay with the Covernment beyond the required period, precisely because of the pay and uncertain prospects. Some elso build up secondary careers or businesses during their period of government service, thus opening the way for conflicts of interest. The whole area of government manyower management is a key issue in the development planning effort.
- (c) Work procedures, including filing systems and the coordination of statistical data collection, are still in need of organization; interdepartmental communication in Dhivehi has been simplified through the adoption of Roman script and, therefore, the use of typewriters; but the annual reports produced by individual departments are still not circulated so that on the whole, departments know little shoot each other's activities, thus aggravating the problems outlined under (a) above.

If Report of an Advisory Mission on Administrative Improvement in the Republic of Maldives, June 1974, UN Sconomic and Social Commission for Asia and the Pacific by H.S. Wanzsinghe.

#### Legislative Framework

J.27 Finally, a major constraint to the further growth of tourism capacity and to greater foreign capital participation in the development of the economy is the lack of an explicit legal framework. Both local and foreign investors are happered by the absence of a real property law which would gnable leaseholders to acquire clearly defined rights over leasehold property for contractually agreed periods of time which are at least long enough to justify fixed investments in the property concerned. From the point of view of joint ventures with foreign investors, it is also necessary to introduce a company and banking law in line with those operating elsewhere. The foreign investment law is far too open-ended, and, therefore, unattractive to serious long-term investors.

#### PART B: THE SECTORS

#### IV. FISAERIES

# Production and Exports

- 4.01 Prospite the Coverment's subcessful efforts at diversification, the tisheries sector continues to deminate the economy of the Maldives. In 1975, it accounted for close to ope-third of CDP, 44% of the employed labor force, 1/and nearly all visible export earnings. Fishing provides the main livelihood for the vast majority of the island population outside of the capital Male. Fish are caught for home consumption or for export.
- 4.02 The total marine fish catch, which is meticulously recorded, shows substantial annual fluctuations. 2/ Annual landings over the 1967-78 period averaged 27,960 metric tons; the actual catch fluctuated between 22,600 metric tons in 1968 and 35,400 metric tons in 1974. In 1978, the catch totaled 25,800 tons. Growth of lish landings has seen relatively slow, averaging 1.8% per annual over the last decade, or well below the mate of population growth.
- 4.03 This apparently dismal performance conceals a wajor structural transformation of the acctur which began in the early 1970s. Until 1971, fish exports from the Maldives consisted almost equiraly of dried, salted, and smoked akipjack (tuna) called "Maldive fist", of which Sri Lanke was the sole buyer (Table K). The severe foreign exchange crisis in Sri Lanka im the early 1970s prompted that country to limit its imports of Maldive fish. Maldivion exports declined sharply from 1972 opwards end bed nearly deased by 1978. 3/ The Government responded promptly to this development by inviting foreign companies to start collection of bresh lish for freezing and export. Thrum companies (two Japanese and a Bangkok-based company) responded, and. after a slow start, frozen fish exports gained in importance. In 1976, they accounted for two-thirds of fish exports and 44% of fish isadings. More recently, the Maldiwas has begun to export dry salted fish; the Government Amticipates exports of this product to grow rapidly. Small sushelties of shork and other field products are also exported. Despice these developments, total fish exports in 1978 were below the peak level atcained in 1971, an exceptions by good akipjack year. The share of exports in total production kas been tenstant at about 66% in four out of the last five years, against 78% in 1975 and 1972.

As many as 55% of employed males and 29% of employed females in the 1977 neusons reported fishing as the primary occupation (Statistical Appendix, leble 1.7).

<sup>2/</sup> Statistical Appendix Table 7.1.

 $<sup>\</sup>overline{3}l$  The Maldives resumed exports of Kaldive fish to Sti Lanks in May 1979.

Table K: PRODUCTION, RXPORTS AND LOCAL CONSUMPTION OF PISh, L971-7X (\*\*\*INFO metric tone)

		<u>1972</u>	<u>1973</u>	<u>1974</u>	1975	1976	<u>1977</u>	<u>1978</u>	
Fish Landings	35.4	25.5	34.0	35.4	25.2	<b>31</b> .0	26.4	25.8	
Fish Exports <u>/a</u> of which:	27.7	21.3	20.3	25.0	15.6	16.1	18.1	17.3	
Maldive Fish	27.7	19.3	15.9	17.7	9.8	7.2	4.9	1,2	
Pomoign Companies	-	2.0	4.4	4.5	5.7	8.7	10.5	11.4	
Dry Salt≘d Field	_	10	-	0.8	1,1	0.2	2.3	4.7	
Available for Local									
Consumption and									
Stock Chapges		4.2	13.7	12.4	9.6	14.2	8.3	al.5	
for the contract of the forest of the contract	. 1-								

/a Fresh fish equivelent.

Source: Statistical Appendix Yable 7.1.

 $\Delta : [JA]$ The increased reliance on fresh fish exports has been accompanied in the mid-1970s by so effect to machanize the country's fishing fleet. Under a government-aponenced credit scheme, assisted by obtaineral and multilaregat. assistance, 1/ summe 700 at the country's 2,300 sailing pole and lice vessels. that been motherized by mid-1979. 2/ A Surcher 50G engines are to be installed. by 1981 under a 83.0 dillion IDA-sesisted fishering project. In the mid-1970s. mechanization was largely contined to vessels operating them Male and the stalls impodiately morth of the capital, where fresh fiab collection was taking place. More recently, mechanization was apreed to the south, chinmidding with improvements in the collection of fresh fish in that area. Howeven, only 18% of all pole and line weasels in the four southern stotle have bsectosechanized, as egainet a matibuol everage of 36%, and 35% for Majo island. Medianized vessels have growed made mode versabile and productive; they are capable of catching of least 50 ters of fish per atmos as against 10 tens for oco-mechanised vessels. Mechanised vessels are also mether suited than sailing vessely to supply fresh lish to the highly mobile collector vessels. Mechanization was thus an important factor in facilitating exports of frozen fresh fish. In 1978, the mechanized fleet is estimated to have contributed well over half of fish landings and hearly all exports.

4.05 Fish is the most important source of protein in the average Maidivian's diet, and per capita consimption of fish in the Maidives is one of the highest in the world (SS kg in 1978). Consemption tevels show substantial yearly fluctuations and vary widely from about to stoll. This is explained by fluctuations in local production, export potential and fluctuations in stocks of "Maidive Fish." For capita consemption is the two southern most stolls, Graviyan's and Scene, is well below the national average because of the sportage of bait fish in these stolls which limits pole and line fishery.

<sup>1/</sup> Abu Bhabi, Eran, Japan, and the UX.

 $<sup>\</sup>overline{2}/$  Statistical Appendix Table 7.3.

# Resource Endowment

- 4.06 The Maldives has substantial fish resources, about which there is little detailed information. Two species are predominant in Maldivian waters: deep-swimming two, of which commercial concentrations mour during two to six months of the year in the Maldives' 200-mile economic zone, and surface two, which occur year round outside the country's atoll reefs. In addition, the country has limited quantities of bottom-fish and other species justice about atolls.
- 4.07 Deep-swimming two are caught by two longliners, which follow commercial densities of these highly migratory species through the Englan Ocean. You Maldives does not have its own commercial two longlining tishory, but there are indications that foreign two longliners do fish in the Maldives' economic zone during two to six months of the year. The catch taken from these waters are anknown. Deep-swimming tans and surface two constitute separate stocks, with little overlap in species composition, and the impact of long-timing operations on Maldivian catches of surface two is negligible. Deep-swimming two resources in the Indian Ocean have been heavily fished for some years, and some species are exploited close to their maximum sustainable yields.
- 4.08 Of toral fish landings, approximately 75% are surface tora: skip-jack tuns (<u>Katauwonus pelamis</u>) and juvenile yellowfin tone (<u>Thunnus Albacares</u>). These occur year-round, although fish densities near individual stolls vary nonsiderably through the year. The size of skipjack resources and the density of schools alose on the reefs is influenced by natural factors, many of which are not well understood. Water temperature, oxygen content of the water, predators, and the tima's cannibalistic inclinations play an important role. There are no resource studies on Malniviae tima. Two has begun a study of Indian Quean skipjack, the results of which will not be known for several years. Even when the study is completed, it would still be difficult to predict potential yields for the Malkives areas, because this species appears highly migratory.
- 4.09 Other commercially interesting fish resources include bottom-fish, like snapper, grouper, perch, and limited quantities of other species, prendendantly pait fish, shark, lobater, and small amounts of shrimp. Boncom-fish resources were briefly surveyed in 1977, 2/ and were considered espeble of supporting a limited commercial fishery. The present eath may be about half of the estimated sustainable yields of theme stocks (about 10,000 metric times). Although beit fish resources are substantial, many islands are season-ally deficient in bait. However, except in the southernmost atolls, lack of bait rarely prevents tishing as other inlands meanly usually carry bait. Shark and lebster have considerable export potential. The size of stocks is unknown, but likely to be limited, particularly for lobster.
- 4.10 Roat-building wood is an essential resource in a country where fishing vessels play such an important role. In the past, Maldivian vessels

<sup>1/</sup> Gesellschaft für Organization, Platnung und Ausbildung (GGPA), <u>Fensibility</u> Study and Project Preparation for the Pishing Sector in the Republic of Maldives, Final Report, 1978.

were exclusively built of second palm wood. Palm wood has become scarce in recent years, largely because of the absence of a systematic cocomot felling and replanting program, and boot-building timber has had to be imported. With a fleet of about 2,300 large and 1,400 smaller vessels, and an average vessel life of reighly 20-35 years, angual replacement demand is estimated at 60-80 large and 90-100 smaller vessels. Demand for wood needed to construct these vessels sizeady exceeds nationwide supply. With neighboring countries experiencing increasing shortages of timber and with demostic wood prices rising, the Maldives will, in the short term, need to explore the use of alternative sources of wood or less traditional bust-building material until domestic timber supplies can be bounted by a concent rehabilization program.

# Fishing Methods

- 5.11 Fishing methods in the Maldives are remarkably efficient, and fiabling vessel designs are well adapted to local conditions. As skipjack and yellowin thus rarely enter the lagoous, tishing of these species takes alone from the outer rest to a maximum distance of 25 km peaward. Over 90% of the thus catch is caught by pole and line method, employed by the 2,300 pole and line sailing and motorized vessels, each with a crew of between 8 and 13. The remaining production comes from line fisheries either by trolling with small boats (up to 8 meters), longificing, or by handlining at night for reef flab.
- Prior to the development of frozen fish exports, flamermen returned with their cetch to their own islands where the tick was processed into Maldive fish for export to Bri Lanks or For local consumption. Machanized boots now have the alternative of selling their fish directly to the 12 collastam vascals, which transport the figs on ice to mother vessels where the fish is almande, truzen, and stured for exposit. Such collection is confined to the more promising tiching areas. Since many atolls record good catches for only two to four months in a year, local fighermer are forced in leasmouths to either process their catch of tona irro Maldive or dried fish or move with the collector wessels to more promising Areas. The latter option is cyrrently limited by inalegnate fuel supplies and high fuel costs. offsignee marketing intrastructure trestably contists of five mother yessels with a daily freezing catacity of about 150 tons and a storage capacity of 2,500 guiden temporal and 32 collector vessels. The small capacity and limited gumber of collection vessels are a serious constraint to collection of fresh fish. Lend-based storage facilities are small with only two cold-storage Sacilities, mainly for tuna, lobeter, and whitefish.

#### The Economics of Fishing

- 4.13 Fishing dominates the local economy of most populated islands. Almost all capital formation takes the form of house construction or boat building. Wages for fishermen are determined by a well established share system which varies from shall no shall. Regardless of how the shares are determined, the cake to be divided is relatively small, and lecticing.
- 4.14 The share of the dishing crow is usually a percentage of gross sammings (less feel costs for mechanized vossels). For a typical mechanized vessel, wages, in 1978, amounted to MR 7,900 for a order of 10 or an average

of MR 790 a year, 1/ which represents a bare subsistence wage. The average wage on a non-mechanized quaft was MR 560 a year 1/ (Table I.). The new income account to the best owner of a metorized vessel was about MR 3,700 a year, and for a non-mechanized yeasel, MR 2,000. Thus, under optimal circumstances, mechanization enabled a 40% increase in incomes of fishermen and a 50% increase in the new incomes of boat owners. This does not allow for depreciation, which is adoptably higher for mechanized about owners (MR 2,700 per annum) than for con-mechanized boat owners (MR 700 per annum).

Table L: ESTIMATED ANNIAL GROSS SALES AND OFERATING COSTS OF POLE AND LINE VESSELS (MR '000 at 1978 Prices)

		<u>Mechanizej</u>	Non-mechanised
A.	Gross Salca	28,5	9.4
Н.	Operating Costs	71.1	<b>8.9</b>
	Fué!	8.7	_
	Wagas	7.9	9.5
	Maintenanne	2.8	0,8
	Other	1.7	0.5
Ξ.	Debu Bervice on Enginea	3.7	_
D_	Net Sales Proceeds A-(3+C)	0.7	2.5
Ľ.	Repreciation	2.7	0.7

Source: Interactional Development Association, Maldives Figheries Project, Staff Appraisal Retort (No. 1359-MAL), May 1, 1979.

- 4.15 During 1973, the situation took a dramatic turn for the worse, threstening the vightlity of mochanised fighery. The fullowing factors appear to have been at work; fuel prices increased without an increase of tish prices, and implicit taxes on first exputes were not sufficiently adjusted to maintain adequate years? profitability.
  - (a) <u>Suel costs</u>. In May 1979, fuel was sold on fishermon at MR 1.64 nor liter in Male and MR 1.40 per liter in the rest of the country. By December chase prices had beighed to MR 3.81 and MR 2.50, respectively. As a result, the extimated share of fuel costs in gross annual average earnings per vessel rose from SUS on about 70%.
  - (b) Export prices. Each year the Maldives negotistes fish prices with the foreign companies. The lack of viable alternative export opportunities has perform limited export price increases. Although export unit Values have risen over time, they have not them as feat 46 world

<sup>1/ 40%</sup> of gross earnings minus (uel coscs. In addition, each fishing day onew members are usually allowed to keep use or two fish for their own consumption.

 $<sup>2/-\</sup>delta C^{\alpha}$  of grass earnings.

market prices for skipjack. 1/ in fact, in 1979 the foreign companies lawered their purchase price, resulting in a decline in average prices received from \$2.71 per ton in 1978 to about \$256.

- Pricing policy. A chird element in determining producer margins is the Government's control over the price paid by 670 to fishermen for fresh fish. Till carly 1979, this price was set by using the magnification export price multiplied by the official accounting rate to convert dollar carnings to local currency (see pars 2.24 above). Since this accounting rate stood at MR 3.93 = \$1.00, the prices received by fishermen in Maldivian rupeds were substantially below (56%) what they would have received had they seen able to sell fish to 570 and the companies at the free market rate. 2/ Although export prices declined in early 1979, the Government chose to maintain the price paid to fishermen at the level escablished in 1979. This, ingether with an appreciation of the exchange rate, reduced the effective tax burden to a still kafty A8%.
- 4.16 The Cumbination of rising costs and an unchanged selling price caused producer margins to deteriorate. Fishermen began to move away from frozen fish exports and started producing salked fish for export, which became attractive due to higher fish prices. To prevent an excessive diversion away from frozen fish, the Government in August 1977 began to require exporters of dry solted fish to convert helf their foreign exchange earnings at the official accounting rate, thus introducing a tax on these exports as well, which it at a lower rate. Prozec fish exports declined in late 1979 and early 1980, as many suchanized boat expers found such operations unprofitable. A significant number of mechanized vessels were laid up or diverted to more profitable activities in transport and tourism. Faced with this potentially dangerous altuation, the Government moved to improve lishermen's indestives. The price paid for fresh fish was taised by 23% and the price of fuel was reduced by 7%. Subsequently, the Government negotiated a 35% increase in the export price of fish, made possible by a strong upsurge in world skipjack prices. Although incentives have improved considerably as a result of these price changes, profitably of mechanized wessels is still somewhat below the pre-1979 havels. Fishing aparations in the Maldivea are among the most fool officient in the world and operating costs per ton of tish caught are soill the lowest of any mechanized ekipjack

<sup>1/</sup> between 1972 and 1979, the average price for fresh tune has risen from S167 per metric ten in 1972 to \$255 per ten in 1979 or at 6.1% per annum. During the same period, world market skipjack prices rose from \$446 to \$816 per ten or at 9% per annum. The slower rate of increase in Maldivian prices is partly explained by the relatively high proportion of small fish in the Maldivian catch and the high cost of collection, storage and transport. But the main factor is the relatively week baragaining position vis-a-vis the companies.

<sup>2/</sup> See Statistical Appendix Table 7.4.

fishery. The present difficulties are, therefore, not due to any intrinsic jacfficiency in the industry but to an over-satination of the sector's revenue generating especity in a situation in which operating corts have disent abarply while export unit value realizations have fixled to keep pade. In the luture, further changes of fuel end fish prices can be expected, and as the fishing sector is vital to the health of the economy, prompt price and tax adjustments will be needed to ensure adequate incentives. A financially visible fishing industry could result over time in sizable production and expert gains. The adverse impact of a possibly lower effective tax bunden (through lower 570 profits) on Government revenues as a result of adjustments in the implied fish export tax could show by sitset by the larger revenue base.

# Future Development Strategy

- 4.17 Sector policy is still in the early stages of formulation. The long-term objective is the gradual reduction of Maidivian dependence upon foreign companies for fish collection and marketing and the development of local capabilities in this field. Consistent with the recommendations of the only fisheries sector study, if the Government accords high priority to improvement of its knowledge of fish stocks, stepping up production of fish through further mechanization of existing vessels, development of more efficient fishing vessels, and the development of a tuna longlining capability. The Government has begun implementing the study's recommendations by inviting IDA and the Kywain Fund for Arab Sconomic Development to finance mechanisation of fishing vessels and marketing infrastructure. In addition, the country is exploring the possibility of establishing an indigenous tuna longlining operation.
- These initiatives must be seen in the context of the underlying 4.15 scripcural transformation of the figheries sector that is now taking place. Those changes have been accomplished in a remarkably short period, and, not surprisingly, have created considerable stress on the delicate Maldivian spoid fabric. The replacement of Maldive fish by frozen fish expusts has meant a teduction in the demand for female labor, longer trips away from home for fighermen in pursuit of scarce collector yeasels, the exasperation caused by precarious Suel supplies, long waiting lists for engine installat lion and, most recently, the energ rise in fuel costs. Those structural changes have occurred with minimal planning. The Soveriment now recognizes the need to plan socivities in greater detail and with a longer time horizon in order to fully restize the potential effects of changes in flishing technology and marketing on the atructure of local island communities. The productivity of the existing fleat of mechanized vessels could be doubled if a number of constraints are recoved. Planning would provide the framework to assess the impact of short-Lerm policies designed to remove these constraints. Apart from the pricing policy issue discussed above, there are two other issues of vical and immediate importance to production and export performance: the supply and distribution of feel and stability in the comm mercial collection of fresh fish.

 $<sup>\</sup>overline{1/-cop}\lambda, \ \overline{op}, \ cit.$ 

# Short-Term Development Policy

- A.19 Mechanization necessitated the establishment of a fuel distribution system. Initially, the foreign companies assumed responsibility for fuel supply, and occasionally, fishing vessels visited Male to buy additional fuel. However, the rapid mechanization program has resulted in a substantial increase in fuel requirements, which are currently estimated at an annual one million imperial gallons. The foreign companies have found these quantities difficult to handle and would not be able to meet the growing demand from newly mechanized vessels. Moreover, the companies claimed that as they were required to supply fuel at fixed concessionary prices, the increase in world fuel prices has entailed sizable financial losses on their fuel operations. Not supprisingly, fuel shurtages became a serious constraint to fishing operations.
- 4.20 The new government has been quick to recognize the disturptive affect of feel shortages on fishing operations and is trying to improve supply and distribution. Two feel distribution schemes have been encounced which will eventually reduce the pressure on collecting companies to supply feel by establishing, on a modest scale, an indigenous feel distribution and supply system. In the long run, the feel supply system coeds to be separated from fish collection and operated as an independent service to fishermen.
- The problem of stability in fish collection is directly linked to 4.21 the Government's long-term sector strategy. The Withdrawal in early 1979 of the Wangkok-based company has greatly increased the country's dependence on one foreign company (which now handles about three-fourths of all frazenfish exports), a development that is a cause for much concorn. Two issues ard at stake: the first relates to the Government's long-term objective of increasing the Waldives' share in the collection of fresh field. The second involves the short- and medium-term need to maintain tresh fish collection systems. To tackle the first issue, the Covernment has asked the Kuwait Fund to finance a fish collection, marketing, and processing project, which will mean fish cultertion requirements in about one third of the country. In a related jevelopment, it has established a public sector Haldives Fieberies Corporation (MFC), "a commercial organization that will do everything regarding fisheries catching fish, marketing, providing shore facilities.  $^{
  m P}$  1/ Those initiatives appear to have created some uncertainly on the part of the companies in the investment climate in the Maldives, and it is reported that one of the two remaining companies had, at one print, expressed doubts about its continued presence in the country. The Government has, partly in response, invited several other foreign companies, so far without success, to collect fish in Maldivian waters and reduce the country's dependence on one foreign сощелу.
- 4.22 To avoid further disruption of fresh fish collection, the Maldives needs to ensure that these short- and long-term initiatives are handled in such a manner as not to disrupt present collection offices, which, despite difficulties, have proved to be the only viable option in the medium term.

I/ President Gayoom, in an interview given to Elizabett Colton, 'Maldives Looks to the Future," Far Eastern Economic Review, pp. 42-43. October 5, 1979.

Patil such time as the enumary has reveloped its own capabilities in this field, it appears advisable that the Government continue to provide an investment climate in which foreign acceptates can operate with reasonable confidence, so that frozen tish exports can continue to expand. This will require the adoption of an explicit policy howards foreign investors which ensures a policy environment that enables adequate returns on investments over a period that is clearly defined. If such a policy is seen to be reasonable, the Maldives expould have little difficulty in personading foreign companies to enter into contracts of specified detailing that ensure stability in this vital area.

# Long-Term Revelopment Strategy

- 4.23 The Maldives' long-term strategy of developing its own capabilities is correctly confined to the sollection and storage of fish. Sector planning should embrace other aspects, such as fishing technology, now processing methods, new products, and the crestion of adequate infrestructure to some the industry, including fishery research.
- A.24 Planning. The country is entering a period in which medialons have to be made which will affect the sector for many years to done, desiring with respect to future product development, fishery technology, investment needs, and human resources. It will become increasingly difficult to arrive at these decisions without some form of long-term planning. Such planning should specify key sourcement largets, but its main aim should be to provide estimates of future input technicates and provide the data and analytical tools needed to assess the impact of government policies. Areas which would particularly becefit from planning are fuel supply, systing and design of fish collection, processing and other infrastructure, assessment of future finencial requirements for the fishing sector, assessment of future requirements of technical personnel, training useds, and foreign technical assistance requirements. The following specific opportunities and needs should be approach.
- 4.25 <u>Product Diversification</u>. There appear to be many optomization to expend the existing product line. Some products such as shark (meat, leather, and oil), lobster, shrimp and whiteFish fillets, show itsediate, albeit limited, potential. Shark and lobster, cornently being exported to Singapore, are extremely probe to overfishing, and it takes years to rebuild depleted. stocks. Exploitation should, therefore, be expanded carefully. Shrimp are found in inland lagrous and correctly used for bails. Whilefield fillets have guod markets in South Bast Asis and the Middle East and can be expanded. Oriod tich exports, which have recovered sherply after the recont respecting of the Bri Lagka market, have further putential. Sti Canka has a steady decand for dried fish, particularly after the reduction of its imports of dried fish trum Pazietan. However, efforts should be made to diversity markets to easure greater snability of experts. The potential for increasing domestic value added is also fairby significant. With the high coat of shipping frozed touch tune, it may be increasingly economical to filler type in the country of production and expert fillets (tokes) for causing purposes. The technology for preventing exidation of the product was deficient in the past, but this has been matisfacturily improved recently, and it appears that local fillering has become an attractive elternative.

- 4.76 <u>Fishing Technology</u>. Present fishing methods adequately serve existing fisheries, but the following areas offer scope for further development:
  - (a) Present pole fisheries operate on a single day-basis, but trips could be stretched to three to five days. This would require larger vessels, with an insulated bold, ice supply, improved bait catching capabilicies, and hardier bait. Longer trips would enable relatively less time to be apent catching bait, and vessels would be able to fish in larger areas around collector boats, and spend relatively less time craveling. In addition, these vessels would reduce the made for a densely spaced system of collection points, thereby reducing collection costs. Such vessels would particularly suit areas with short peak seasons located well outside the range of present collections system. One such prototype vessel is to be built, under a DNDP/IDA technical assistance project, to test its economic and technical feasibility.
  - (b) The Covernment is contemplating developing its own longlining operation. Increased fuel prices are forcing existing foreign cuma longlining operations to concentrate on the high-value Japanese abasbimi (raw fish) market instead of the caused cons. market. Prices paid by the canning industry have declined in relation to prices in the shashimi market. A Maldive tuna longlizing operation would have the advantage of relatively cheap labor; it would also help build up exportise for this type of fishery. Nevertheless, longlizing operations are highly depital-intensive and will have few forward or backward linkages. Since tung longlining for the shashimi market is a technically demanding fishery requiring considerable emperience, substantial technical assistance will be needed. A careful evaluation of alternative uses of scarce investment funds is needed before embarking upon this type of operacion.
  - (c) The small ressels now used for trolling and line fishing are potentially mechanizable, but financial viability should be carefully studied in a pilot operation. Kechenization of small ressels in contrast to pole and line ressels would further increase the demand for fuel, which may not be desirable in view of the relatively high fuel costs.
- 4.27 <u>Development and Research</u>. The Maldives lacks both research facilities and the research data needed for policy information. Applied research is needed in the following areas:
  - (a) An assessment of stocks: This is essential to diversification into spark, inducer, shrimp, and whitefish fisheries.

    For tuns, the Maldives will have to coordinate its efforts with other Indian Ocean countries. FAO has been maked to provide technical assistance in this area.

- (b) Fish processing technology and fish marketing: This could proceed simultaneously with development of processing infrastructure. Technical assistance in these areas can be easily incorporated into planned investment.
- (c) Fishing technology research including improvement of present fishing methods should receive immediate priority.
- (d) Systematic collection of data on the <u>economics of fishing</u>
  <u>operations</u> is also ungently seeded to munitur the adequacy
  of price identifies and evaluate the costs and benefits of
  the present stere system.

# Puture Investment Requirements

4.28 Investment is needed in the following areas:

Infrastructure: Coliection systems both on and offshore, marketing, processing, fuel distribution

end supply, meintenance and repair, and

mavigational sids,

Production: Mechanization, new long-range vessels, and

longlining vessels.

Research: Stock assessment, fish processing, fishery

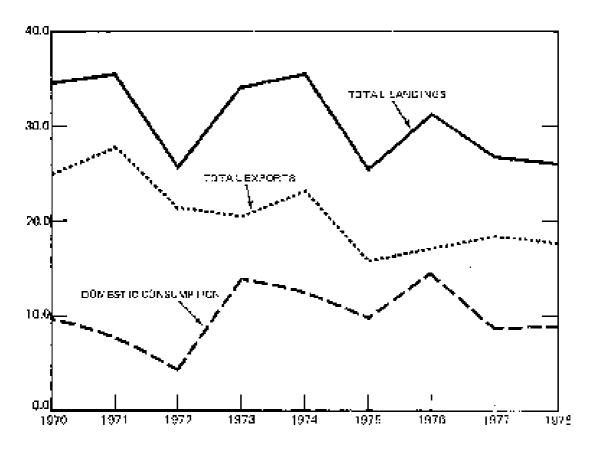
technology, and marketing.

It is not possible at this stage to put a price tag on these investments. However, it is quite clear that this will be substantial in relation to available demestic and executal resources. Investment requirements for infrastructure alone may be of the order of \$15-25 million. Mechanization of 1,000 bosts through 1985 will cost a further \$6 million. Given the magnitude of these investments, the Covernment needs to develop a sectional investment program that phases expanditures, over a number of years, in a manner consistent with svailable financial and manner resources and implementation capability. In the interim, it will need to continue to rely un foreign investment to meet its organing onlinction requirements.

#### The Role of Government

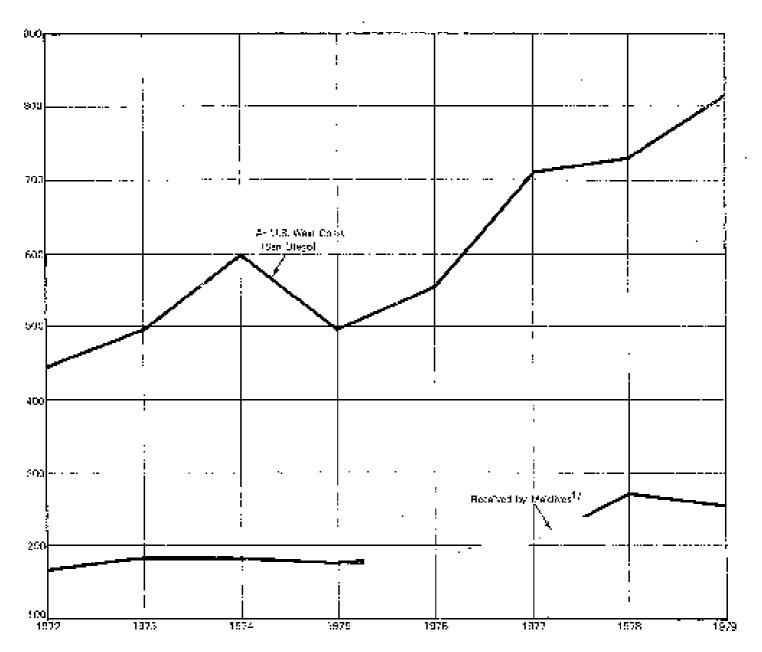
4.29 In a small country like the Maldives where the private sector has limited financial end entrepreneurlal resources, it is not surprising that the State plays a key role in such an important another. The Coveragent has so far displayed admirable self-restraint in ensuring that it is supportive rather than interventionist. In is encouraging to note that the primary aim of the Government is to provide the basic infrastrature and an appropriate policy framework through which the several thousand fishermen in the Maldives can thrive and proaper.

# MALDIVES FISH LANDINGS, EXPORTS AND DOMESTIC CONSUMPTION 1970-1978 (THOUSAND METRIC TONS)



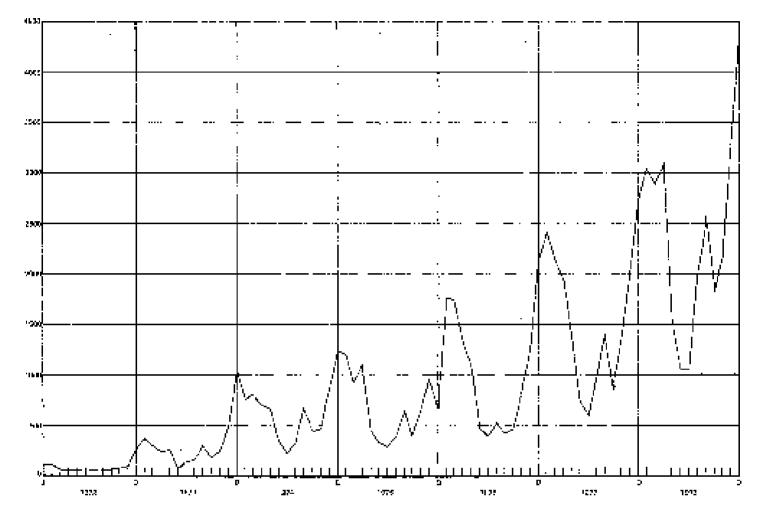
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# MALDIVES AVERAGE PRICES OF SKIPJACK (USS Per Metric Ton)



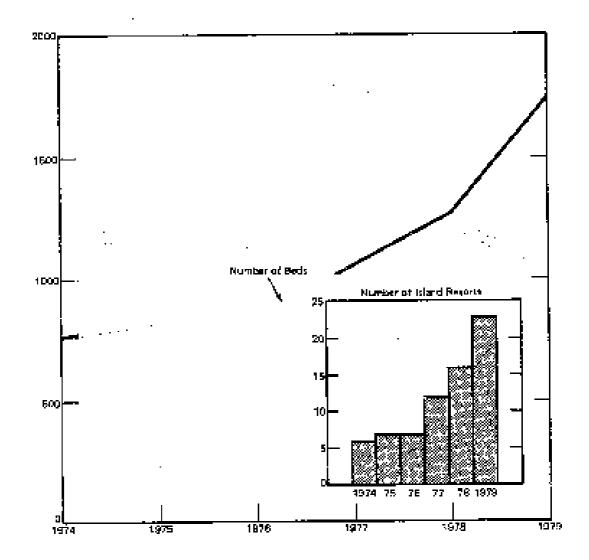
 $1/\langle {\rm Exact} | {\rm Onley tribes which consist of 40% (une smaller than 2 kg <math display="inline">\rangle$ 

World Bank -20848



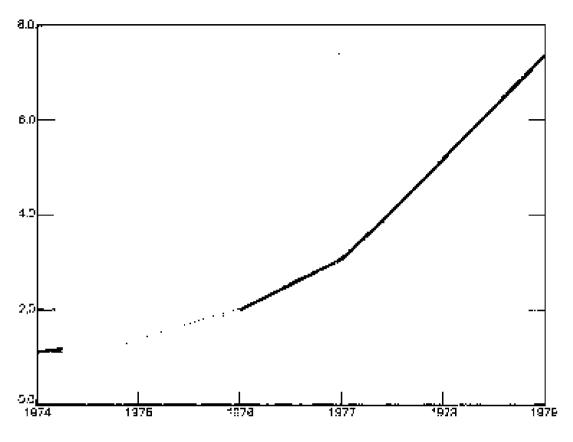
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# MALDIVES RESORT/BED CAPACITY 1974 4 1979.



World Bank — 20946

# MALDIVES TOURISM EARNINGS 1974-1979 (US\$ MILLION)



World Sens — \$3544

#### V. TOURISM

#### STRUCTURE

#### Background

5.01 Like many other IDCs endowed with limited industrial development potential, the Maldives has found tourism to be a valuable new source of foreign exchange sarnings. Starting virtually from scratch some seven years ago, the Maldives now ranks among the world's most tourism-oriented economies 1/ (Table M), with tourism revenues accounting for three-fifths of visible export readipts and over noe-leath of CNP. That this has been achieved with hardly any investment in promotion is a tribute to the unspoiled beauty of these Indian Ocean islands. To the tourist in search of exotic wister holiday destinations, the Maldives offers a desert island atmosphere, unpolluted beaches and the opportunity to dive and saorkel among the spectacular coral and marise life, in clear, warm (80°F) isgoon waters.

Table M: COMPARATIVE DEPENDENCE ON TOURISM (Percentages)

	Townism Remaings as % of <u>Visible Exports</u>	Tourism Value= Added as % of National Income
Katdives	60 <u>/a /b</u>	22 /a
Ээрамах	16	<u>64</u>
Barbados	· 87	24
Bernuda	. 456	61
Fiji	· 66	11
Puerto Rico	13	6

<sup>/</sup>a Bank staff estimates.

Sources: The Europainst latelligence Unit: The Economic and Social Empact of Tourism on Developing Countries; Mission estimates.

5.02 The first deliberate effort to develop tourism dates back to 1972 when the quasi-government Cresuent Tourist Agency (CTA) was created to set up tourist resorts. The former President had a dominant incerest in the company which benefited from official support in the acquisition of inlands and

<sup>75</sup> Exports, including threxports.

<sup>1/</sup> Among those with courism receipts in oxcess of 10% of visible exports and equivalent to more than 5% of actional income. See J.M. Brydan:

Tourism and Development: A Gase Study of the Commonwealth Carribean,

Cambridge University Press, 1973.

of finance. I/ By cod=1979, there were 25 resorts in operation and two hotels in Male classified as suitable for tourists. Each resort occupies its own island and forms a self-contained tourist community. There are no Maleivian settlements on tourist islands other than to accommodate staff. Host resorts are within 20 miles of Male and of Hulule airport. All the resorts are Maldivian-owned. The islands themselves are leased to resort owners by the Government (all land to the Maldives is government-owned and may not be slienated).

- 5.03 Early in 1979, the Majiis passed a Special Law under which tourist resorts for the development of which public funds had been used illegally would be acquired by the Sovernment. As a result OTFI is currently the registered owner of the two Male hutels and six resorts 2/ representing 80% of total capacity. Except for Villingili, Volgassaru, and the two Male hotels, sl' government—controlled resorts are leased to private operators. After the change of government in November 1976, there began a screenble for leases on islands within a reasonable distance of Male. Many young Mala entrepreneurs jumped on the tourise bandwagon. In the space of only two months, 30 new resort projects were registered with the nine-rooth old DTFI.
- 5.04 The necessary capital to finance resort construction in the first five years of the industry's development, came mainly from owners' resources. from 1975 onwards, the newly extablished commercial banks began to play a part in financial operations, particularly to provide working capital. Buring 1979, at the height of an unperalleled resort-building boom, bank lending dried up pending clarification of the status of outstanding loans to resorts that had been put under direct government control after the departure of the former president. Tour operators filled the financing gap for some resort owners by block-booking individual resorts and paying in advance. In other cases, bridging finance was talsed from friends and relatives. Here recently, the Government has begun to provide short-term loans (12 months) to meet working capital requirements. But construction activities on a few new resorts had to be suspended, while others had to rephase their development programs.
- 5.05 Most resorts rely for their clientele or two or three operators. Inclusive charges (accommodation and three meals per day for two persons in a double room) range from \$24.00 per day in small camping resorts to between \$36.00 and \$42.00 in better endowed resorts (all mid-1979 rates). Accommodation is paid for in foreign exchange direct to resort operature by the agentales Which organize and market the package tours with which most visitors arrive. The accommodation offered at end December 1979 consisted of 832 rooms (1.664 beds). 3/ Only two resurts had 100 rooms; six had 40-70 rooms each, while the remainder had fewer tran 30 rooms each. Typically, tooms are et ground level, clustered in twes or threas, each with its num bathroom under a common roof, in structures made to look like local houses, huilt of occal and

The former President's Sinancial dealings are correctly being investigated by a special committee of the Citizens' Majlia (see page 5.63).

<sup>2/</sup> Of the six rescrets, one (Villingili) was always government-puned, and the others were taken over under the new law.

<sup>3/</sup> Excluding the two Male hotels.

material moderneach. Commun facilities are housed to a central complex, again designed in keeping with local buildings. Every report has its own generator, water supply, radio, telephose, and more or less sophisticated mooring family ities. Sewerage disposal is usually by means of septim tanks for each cabin. Resorts have their own motorbrats to transport guests, staff, and goods to and from Male and Holole, usually open Borton whalers. There are no beach family ties on Nale, hence the brevity of the average tourist's visit to the capital island, if a visit is made at all. Although tourism has grown without government guidance or interference, the sector now others a range of accommondation from the very simple to an international standard of comfort, all at moderate grices. Much thought and care have been given to preserving the desert island atmosphere that tourists come in search of. There are no glaring suchitectural excesses; marine rife is carefully protected and trees and gardena flourish around resort buildings.

# Activity Rates

5.06 The pattern of arrivals between 1974 and 1979 has shown a sharp and consistent operate trend which peaks between November and March. Starting is 1977, there have been secondary peaks in Abgust, the traditional Zoropean summer holiday month. Available data on passenger arrivals at the disport show a desiable increase in last years, from 7,500 disembatking travelers in 1974 to 29,265 in 1978, a growth rate of 40% a year. Tourists probably accounted for about 76% of this traffic, with arrivals estimated to have risen from around 5,000 in 1974 to nearly 13,000 in 1978. Arrivals in 1979 totalles 36,000 of which about 25,000, were tourists. 1/

Table N: AJRPORT PASSENGER ARRIVALS, 1974-79

	1974	<u>1.975</u>	1976	1977	<u>±978</u>	<u> 1973</u>
Total Airport Atrivels	7,513	9,004	12,477	18,665	29,26)	36,054
Source: DIVI.		·				· ···

5.07 Seasonal floormations are becoming loss pronounced. The high stateon still runs from November to April when many resorts have achieved 100% occupancy rates, and the low season from May to Delucer when some resorts have closed or operated at 5-10% of appacity. But achievely rates in July and August have sown an operated trend, with 50 to 100% occupancies in some resorts in 1979. Average capacity obtlization in 1978 was 55% (break-even levels are mostly ground 40%). Individual resorts expected 1979 ectivity rates ranging from 60 to 90%, based or around results and firm bookings by end-July. The islands already appear to be deing better than most winter Contism destinations. Occupancy rates in the low season could be further improved it all transport

<sup>2/</sup> The alow down experienced in 1979 was due to vacantainties relating to availability of flights from Colombo following the temporary suspendion of services by Sci Lacker withines at the hagisting of the 1979/80 tourist season (see yers 5.19).

capacity from Colombo, where most international flight connections are made, could be boosted (para 5.19). In 1979, it appeared that the assemble decline in thurst arrivals was due more to the seasonal reduction in flights to the Maldives than to a fall-off in demand, particularly between June and Suplember.

- 5.08 Demand for terrior in the Kaldives has originated mainly in Western Burope, About 55% of 1979 tourist arrivals were from Western Burope, with west German, French, Italian and Swelish tourists accounting for 68% of all thurist arrivals. Such large agencies as Keeni, Acad, Meckerrann, IDI, and Notelplan have been bringing in groups from West Germany, Scandinavia, Avs.ria, Switzerland and the Notherlands. Italian and French courists have come with about interest groups: Italians for south diving (Subaqua, Zonthouse, Enrach) and the majority of french tourists with Clar Reditorrance, for its Glob Natura of Parakolbufrahi. Australians have come particularly to Australian-toerated Europaticalii. Relatively few tourists strive independently of tour operators belove of transport difficulties.
- Resort operators carinate that most visitors some for either one or two weeks, an average of ten days. During their stay in the Maidless, coursais' average daily expanditures are on the low side by intercational standards. This is due in part to the ivoidal tourist problem, young (25-35), middle-imagna professional, technical and buafuesa background, the high cost of long-baul isclusive tours (TTs), and the large proportion of TT costs attriburshle to air fares. It is also due to the low cost of local accommodation. and the lack of optoriunities for specifing money on incidentals in a typical, isulaten Maldiviau resort. Spending on basic accommodation (room plus three months per day, per person) in 1978 everagen 813 in the 11 Maldiviau-reperated resorts (before deduction of a 15% typics) foor operator's discount). In addition, bourists were estimated to agend an average of \$7 per day par yerson in the reserve, of which 82 went on original and 85 or soura diving, water sports, fishing expeditions, etc. Rocha-diving operations are usually conducted by fully equipped foreign instructors who pay a roymity to the desorts (cypically, 20%). Specifing outside the resort is limited to one or two expeditions to Hale or to other resorts; it is estimated to sverage 👯 per day per person and severs transportation (up to \$40 for a return trip to Male by motorhoat) and purchases of souvenirs. It all, therefore, a typical tourist may spend some 329 m day an staying in the Maldlows, or a total of \$250 for an average of 10 daya' shay. Not all of this accrace to the Muldives, as the colored traininges in the form of imports of goods and services, examined in more detail in peregraph 5.10 below.

MCCHORIC AND SUCIAL IMPACE

# Faceigo Exchange Wernings

5.10 A growing tousism industry in any country brings with it particular benefits and roats in terms of societal impact, the balance of nayments, structure of the contempt, public finance, and employment. With the help of data provided by pasors operators and the DIF1, an antempt is made here to estimate the impact of terrial on the economy in 1978. Table 3 shows that after dejecting impact teakages from gress receipts in the rajet fourist

expanditure categories and from investment spending, not balance of payments earnings in 1978 may have amounted to nearly \$4 million. Opens caraings (before deducting imports) at \$5.8 million were well shows the \$4.1 million of foreign exchange earnings from fish, traditionally the main export. Mesombile value added by the sector is estimated to have contributed meanly 12% of CDP in 1978 compared with less than 1% six years earlier.

Table O: THE TOURISH SECTOR'S COMPRIBETION TO THE ECONOMY IN 1978 (USA '000)

	TmpurEs/A	Not Local Expenditure	<u>Totel</u>
Tourists' Expenditures			
Food and Accommonation /b Cahwa Tammasona Spending Expenditures Elsewhere Alaport Tax Subtonal	910 940 280 - 2,130	2,080 620 840 <u>110</u> 3,650	2,990 <u>/a</u> 1,560 1,120 <u>110</u> 5,780
Tourism Investment			
Resert Construction <u>/c</u> Suptotal	$\frac{170}{170}$	<u>90</u> 90	$\frac{260}{266}$
Total Expensionse	2,300	3,740	6,040

<sup>&</sup>lt;u>/s</u> <u>Estimated</u> import content of expenditures on resort accommondation and other goods and services.

Source: Rank staff estimates.

#### Intersectoral Linkages

5.)! The construction and operation of tourist resorts has created intersectoral linkages between tourism and other production and service sectors. Goods processed locally include corns, lime, timber, matting, and onix products for the building and furnishing of resorts. The resorts also rely on local fish supplies, and, when available, buy local fruit, vegetables, eggs, and chicken. The resorts have created a highly lucrative market for inter-island tourist transport services. Make has experienced a rapid growth in intrist shops. They well local products: lacquerwave, mats, tortoise shells, and "localized" imports: T-shirts, antiques, picture postcards, and collector's

Gross revenues of 1 Maldivian-operated resorts, plus revenue to cover wags, food and other operating costs of the two foreign-operated resorts.

About 100 rooms were under construction in 1978 at an estimated cost of \$2,500 per grown, of which \$1,900 is attributable to imports of ray materials and equipment.

series of postage stamps. If Because of the absence of import duties on mast private sector imports, there is a modest trace in duty-free goods (overshadowed in importance by the entrepot trade for India and Sri Lanks) that covers electrical goods and cameras from Japan and Singapore and gema and jewelry from Sri Lanks, for example. The rest of Male's services sector is, as yet, not courist-oriented. Tourists' expenditures on souvenins and other local goods and services could be boosted if there were more opportunities for spending. Currently, demand exceeds supply of headicrafts and the resultming increase in prices is benefiting Male midulement not the island producers. There is also scope beth for outling up more rourist attractions, e.g., by restoring and opening public menuments, by creating nature reserves and by setting up an island arts and crefts center; and in diversification, by promoting boat chartering for sailing belidays and diving tor ancient wrocks, for example.

#### Government Revenues

5.12 Until 1979, the Government's only revenue from tourism case from the airport departure tax, levied at the rate of 34 per passenger. The yield in 1979 from this source was \$142,000, 25% more than in 1978. The rate of this tax has been changed on two occasions, initially through a local currency surcharge of Mx 10 imposed with effect from June 16, 1979, and later (from April 3, 1980) by abolishing the surcharge and raising the departure tax to 86 per passenger. Two further taxes were introduced in 1978: a host-wight tax of \$1 per occupied bed per night and a tourism tax of \$3 per registered bed per night. 2/ Government managed hotels and resorts were exempt. With effect from November 1,1980, the tourism tax was abolished and the field night tax rate was raised to 83 per person for night, and the tax was levied on all resorts regerdless of ownership or length of operation. The

The thurism tax base varied according to the spason, and applied to:
BOX of registered becalifour November 1, to Famuary 31; 60% of registered beds from Pebrusry 1 to April 30; and 20% of registered beds from May 1 to July 31 and from August 1 to October 11. Taxes were psysble when a resort had been operating for two years. Payment had to be settled quarterly in Foreign exchange.

<sup>77</sup> Stamps are produced and sold for philabelic purposes. A US company handles foreign sales, for which it charges 25% commission. Revenues accrue to the Ministry of Nove Affairs (3870,000 estimated for 1979). They make a signhic contribution both to forcigo exchange carnings and to the budget. The profit element is very high-the running costs of the whole Maldiviam Post Office were expected to be only \$50,000 in-1979——the states are bought mainly for collecting; not to buy posts; sorvices. Local value added will be further echanced by the commissioning of e Maldivlam artist to design the 1980 series. Farly in 1979, e philabelic milicar was appointed in the Wale Post Office in competition with private traders who had been selling Maldivian stamp series at markupa of 500% and more. This new service hould bring in foreign exchange revenues if it were properly organized and marketed among the tourists. Certain aspects of the operation auch as overordering and subsequent destruction of stocks, lack of first-day ocvers, stock keeping, and accounting need a tighter control system.

tourism has constituted a tax on held especity, and its abolision shifts the burden of texation from the resorts to tourism tax. Revenue from those which had been adversely affected by the tourism tax. Revenue from those two taxes is estimated at \$241,000 in 1979 and \$794,000 in 1980. The Government anticipates substantially higher revenues in 1981. Because most imports for the tourism sector were private, and bence, cult recently free of customs duties, 1/ there have been practically no government revenues on this account. Even in 1979, the fourism sector contributed an estimated \$474,000 to the budget (MR 1.9 million at the official accounting rate) or 11% of estimated revenues. Except for the Hololo sirport project (para 5.19) which is sid financed, titules government expenditure is directly tourism-related.

# Rmoloyment

- 5.13 An estimated 1,090 workers worn biroutly employed in courism in 1978, less than 2% of the imployed labor force, 2/1 the number rose to 1.118in July 1979--or 1.7 steff per resort room. This Figure lies in the medium range of employment densities in Lourist countries disceptore. Alpost all resort staff, except for receptionists and secretaring, are male. Her rates are low by international standards, but better than in Maldivian government. service jobs, both for unskilled and administrative personnel. Managerial staif and couks earn an average of MR 1,260 (US\$160). Other, mostly unabilled, workers, earn about MB 200 per month (US\$28), including food and accumundation, but excluding tips. The resorts have to recruit mainly unskilled morkers and train them on the jub. Sume trained cooks and waiters have come north from the former dritian air base at Gan. Other resorts have imported choke on a temporary basia from Sri Lanks and Europe. The uld-established resorts like Villingili have become a favorita poschipy groupd for recruitment to new establishments and have thus contributed an informal training program. According to resort managers, Malfivians are generally engar and quick to adapt to otherwise unfamiliar kotal work disciplinas. However inexperienced, the Maldivians' impate sease of duty combined with patural friendliness has wado sorvice in the resorts pleasant and willing. There appears to be no social stigma attached to botel work and a new recruit can expect to caintain as much upward job mobility as he is prepared to work for.
- 5.14 Seasonal unemployment shong resort workers affects the lesse skilled if the resorts which reduce their labor force in the low season. Skilled staff are kept or even when there are no guesta. In absolute numbers, the layoffs are amall, probably so more than 200 workers, or some 20% of the resurt labor force. This practice has not been perceived as a problem in an economy where imagniar labor patterns dominate. It is also likely that seasonal staff reductions will diminian as activity rates rise in the low season, particularly in July and Anguar. Employment in resort construction,

<sup>1/</sup> Only primate sector imports under the export-import linkage system are subject to customs ducy. A proposal to introduce ad valores import duties of 20-30% on most items in 1980 has been approved by the Majlia. Since these duties are so be levied on the rupee value of imports converted at the official accounting take of MR 3.93, the official ducy beginn will be substantially lower.

<sup>2/</sup> The 1977 Censos data gave total tourism employment of only 411.

meanwhile, has risen sharply since 1977. There are acute abortages of akilled labor for individual projects, particularly masons, plumbers, and electricians. Pay rates in 1979 were estimated to have climbed 30-40% above 1978 levels.

### Sucial Consequences

Rubbing shoulders daily with what by Maldivian standards are freespanding and free-living foreigners way have had some of the recognized social consequences of tourism whem it is superimposed on a small, traditional society. In the Maldives, as elsewhere, the exposure to tourists has gone hand in hand with a growing desire for change, or at least for independence, from the established religious family and social environment. It is likely that this opening up would have occurred even without tourism, but the presence of tourists in and around Mala may have accelerated the process. In general, however, isolation of the resorts has reduced social contacts between "institutionalized" tourists and Maldivians to esacutially functional encounters, as with waiters, boatmen, shopkeepers, etc. In addition, local people rarely visit the resorts, except on business. Nor has the disruption of family patteres experienced in other tourism-oriented developing countries, and arising from the large-scale employment of women, occurred in the Maldives. There is also no evidence to show that the availability of tourism jobs in the Male region has encouraged immigration from other abolis (apart from the drift) of skilled workers from Gan to Male, para 1.21). The capital is neither Fishing nor agriculture oriented, and has the highest difficial rate of upemployment. The resurts, therefore, have access to a readily available pool of labor end do not need to recruit forther afield. The cultural impact of tourism has been as moderate as the social one. So far, thate is little evidence of the development of a pseudo-culture for tourist consumption only, such as the "airport art" frequently encountered in other Courism countries.

#### CROWTH POTENTIAL

# Planning for Tourism

The Maldives is far from having realized its full tourisa potential in both regional diversification and further expunsion of existing conscity. All the new resorts currently under consideration are situated in broadly the same area as established resorts. The opportunities for developing tourism elsewhere are smill wide open and could be an important vehicle for realizing the Government's avough aim to promote regional development and reduce income dispaticies. Aparc from a DIFI directive which would limit tourist resorts. to a maximum of one-third of the uninhabited islands of any one stall, the major limiting factor is transport. Given the distance between atolls, and the impredictable and hime-consuming nature of sea transport, the regional diveraification of courism must depend on the development of inter-island air transport. This will require investment in infrastructure which could be relatively modest if the wartime Koyal Air Force landing facilities in the North and on Can, in the Sunth, were rehabilitated. A detailed investigation of the potential for using sea places or hydrofoil should also be undertaken. Initially, sit services might need to be run on an ad hoc basis, to correspond with tour group arrivals and departures. But in the longer term, regular

internal gir services could be introduced without mecassarily involving large aubsidies. The various experiences at Caribbean islands and the Seychelles in metring up such services should be reviewed in detail as resource constraints in these countries are aimilar in whow reapects to dircomstances in the Maldivas. Gan is altemay equipped with the nacessary oir and sea transport infrestructure to service a new apprism development region (see Annex C). The island could be at the heart of one of the most important new economic and abolal development projects in the Maldives. So far, about a dozen potential invastors have inspected the island. Only two groups I/ expressed any real interest snagequently. A Can Island Improvement Commistee has been set up under the aegia of the Ministry of Provincial Affaira, but decisions on the things of Can will be the Sinal responsibility of the President, advised by the DTF1. However, the lack of complehensive fureign investment legislation, in particular, and the general weakness of the institutional tramework outlined below, may attract the wrong kind of developer, while ecting as a disincentive to serious investors.

At mid-1979, tourist resort capacity 2/ was being expanded by 218 rooms, and a further 225 rooms were expected to be completed by eco-1980. In 1981-82, construction levels of about 275 roums a year could be achieved. It is likely that stancards of accommodation in future resurts will not differ much from the present range. The formula has proved to be successful and the Maldives has established a reputation which, with careful maintenance, should assure the islands a steady growth in tourist arrivals. Although one or two fracts might be successfully tempted into catering for the high-income, luxury market in competition with other long-hawl destinstions, this is probably not where the Maldives' comparative advantage lies because of the high cost of construction and import-intensive operations. Resort construction costs in 1979 were estimated to have rises shout 40% above 1978 Levels, from an average of 32,600 to oparty \$3,500 per room. The capital, import, and labor sequirements of this (979 capacity expansion) program are qualized in Table P below. Frowided that the commercial banks ere prepared to start lending egaic and that existing resort operators can Seeserb the tourism tex, it should be pussible to finance the estimated level of new investment from bank loans and the industry's retained earnings. Subject to a continuing abortage of skilled construction workers, the supply of other resources, resurt workers, islance, and local cuilding waterists, are astimated to be adequate to systain the projected capacity expansion.

<sup>1/</sup> Orient Express with Singapore Connections, and Associans, Inc. of California, USA.

<sup>[27]</sup> See Statistical Appendix Table 8.2.

Table P: CAPITAL AND LABOR REQUIREMENTS FOR NEW TOURTST RESORTS, 1979-87 (1979 Prices)

·	<u>1979</u>	<u>1980</u>	1983	<u> 1982</u>
Rooms under Construction (numbers) Capital Requirements (\$1000) of which for Exports Additional Employment in Reserts /a	218 760 (560)	225 790 (580)	960	275 960 (700)
(Kumbers)	370	380	470	470

<sup>&</sup>lt;u>/s</u> Based on the 1978 sverage employment density of 1.7 staff per toom.

Source: Bank staff estimates.

If the 4,400 1/ bads which are expected to be developed by 1985 are all situated in Masfu and Alifu stolls, and the 1985 average resort capacity stays the same as in 1979 (76 beds), there is a risk of exceeding the DIMI recommended ratio that only one—third of an atoli's unimbabited islands be developed for tourism. This problem could be partially resolved by encouraging expansion through capacity increases on those existing resort islands which are large enough to permit expansion without overcrowding beaches and sacrificing the privacy tourists seek. The capital requirements for expansion have the edvantage of being much lower, probably by about one-third, than for building new resorts.

# Transport Constraints

5.18 Future growth is partly dependent on an early resolution of transport constraints at both domestic and international levels. Transport course for tourists, resort staff, provisions, and building materials moving short distances between the present resurt islands, Hubble and Male, are rising in line with fuel prices. Yet each resort continues to run its own transport services, resulting in wasteful duplication. There appears to be scope here for pacifing resources among the resorts or at least among those currently controlled by the Government. In the rear fature, boats with bigger capscities than those now in use will be required. When sirport extension work is completed by end-1980, between 300 and 700 travelers with their luggage will want to move in and out of the airport and the resorts within hours. This is not possible with the present fleet of small boats operated by resorts and private beatmen. The frazibility of using water bases should be considered. The lack of fast long-range inter-island transport facilities is one major resson for the concentration of tourist resorts in the Nele-Kastu Atoll. region. This is a particularly important lesue in the context of regional development policies.

<sup>1/</sup> GTFI expected rate of growth.

5.19 At the international level, the two airlines operating to and from Colombu-Maldives International Airlines 1/ and Air Lanka 2/-have a joint maximum capacity for bringing in tourists (assuming that there is no non-tourist traffic) of 1,356 per week in the high scanon (Bovember 1 to April 30). In addition, Indian Airlines can carry 160 passengers per week from Trivandrum to Male. Compared with current bed capacity of 1,640, airline capacity is insdequate. This is particularly so at weekends when meet change-overs occur. Independent charter flights from Colomba inco Male are not allowed under the existing air transport agreement with Eq. Lanks. Moreover, until late 1979, services from Colombo by Eri Lankes airlines were erratic. This transport bottleneck will become less problematic with the higher capacity and greater reliability of Sti Lanka services, when the Mululo airport extension is completed late this year enabling larger planes to land in the Maldives (Boeing 707s and, eventually, Boeing 747s), and when direct feights from Madras begin to operate, as currently planned.

## Tostitutional Pramework

- 5.211 Although tourism has managed to grow so far with lirtle government intervention, recent events have created the need for a stronger institutional framework. A particular effort is needed to remedy the lack of definitive legistation on the property rights of island leaseholders, on the rights and responsibilities of corporate bodies and on banking and other diagnoist sectors. A central planning exercise, however indicative, will also be needed, given the tourism sector's rapidly growing importance to the economy. and government control over the eight largest resorts. This would have to be the responsibility of OTYL, currently part of the Office of the President, and administered, by a Director and two Deputy Directors. Fo date, DTFT has been concerted with the obilection of passenger disembarkation data, co)lection of the bed-night and tourism taxes, admiristration of governmentcontrolled resorts, and kinds January 1979, with the compulatory registration of hotels and resorts, and of new tourism projects. DIMI is in charge of former depactor planning in terms of both quantity and quality; it can block proposed new projects by refusing to register them. But, its manpower resources need to be atrengthened and its responsibilities more clearly defined. before it can undertake an officative planning function. This would include assessing the mation's tourism potential, policy formulation we to zoning, capacity, design, ownership, and operational standards and project evaluation. The DTSI would also need to be ennearmed with the determination of manyuwer and training requirements, the mobilisation of funds for studies abroad, etc. Technical sasiazance for these various functions may be available through UNDF D/ and the World Tourism Organization (WTO), of which DTFI, as the national tourism agency, should become a member at the sarliest upportunity.
- 5.21 A decision will also have to be made accompanding the resorts taken over from the former president and his associates, and whether these should remain government property or he transferred back to the private sector. In addition, the Government needs to consider the role that it will

<sup>1/</sup> In collaboration with Indian Airlines, on a wet-lesse strongement.
2/ Air lanks replaced Air Ceylon services from November 1, 1979, after a temporary two-month suspension of services by Sri lanks: mirlines.
3/ UNDP will Finance 15 hotel trainerships in Sri Lanks in 1979/50.

play in the medium term in financing tourism. It could exercise considerable influence over the volume and direction of new investment if it were to set up a separate termine development finance facility to facilitate identification, preparation and financing of specific tourism projects, and to forge mutually advantageous relationships with foreign hoteliers or thatter groups. Such an entity could be financed from tourism-based tex revenues or through the issue of bonds to existing tourist resort number. These resources could be supplemented through foreign borrowings.

#### VI. ABRICULTURE AND INDUSTRY

#### AGRICULTURE

### Cultivation Practices

- their meagre earnings from fishing. Agriculture and related activities are entimated to account for 10-12% of GDP and about non-tenth of employment. The total cultivable area has been estimated at 6,900 acres, or a miniscula 0.05 acres per capita, spread over 102 islands. The primary agricultural activity, much of which goes unrecorded, is small gardening around homesteads, where much of the fault, tubers, condiments and coconsts are grown. Toddy tapping is also important. Cultivation of field crops, mainly minor millets, is typically confined to the southwest monsoon, and dependent partly on how good the fishing has been in the previous season. There are, however, some islands where agriculture takes precedence over fishing and where crop cultivation takes place throughout the year. There is no dairy farming, and with the exception of two recent nommercial ventures, poultry is raised around households in some islands.
- 6.G2 Go)tivation practices are primitive. The only input other than land and seeds is human labor. Land is prepared manually by disaring and then borning the dried vegetation. The ashes are appead with a worden rake, but no attempt is made to dig the suil. There is little or no use of any other cools and implements, inorganic or organic tertilizer, or pesticides. Returns are low and crop failures due to poor weather, posts and disease are frequent. Continuous tropping without repleciablest of nutrients has resulted in pour exhausted soil; the practice of leaving land fallow for two to three years is quite common.

# Production of Major Croys

Finger millet and Italian millow are grown widely throughout the Maldives during the southwest moreout. Sweet potato, caseava, and yars are grown in the south and in some parts of the north. Maire used to be grown fairly regularly in the south, but due to lack of demand for this cereal, with the easy availability of subsidized imported rice, production in recent years has fallen off. Green chillies, green peppers, and red onions are grown as cash crops. Fruit crops and arecombts are grown baidly in resident tial compounds. The 1977 census figures indicate that shout 57% of bouseholds had broadtruit brook and 76% had because trees. Of those households bowing trees, the average number was about six broadfruit trees and six coconut trees per bousehold. Cocomuts either grow wild, multiplying naturally from dropped nuls, or are planted systematically by leaseholders. A few vegetables are grown, mainly for tourists. Most of the millets and cubers are consumed at home, with only a small part bartered within the island or stolk, and only occasionally in another atoll. Some fruit crops, chillies, onions, and cocomut are sold for cash in Malc.

6.04 Production data are based on reports from island <u>khapins</u> and and polists to the Ministry of Agriculture. The data are not thought to be reliable; in all probability, they exclude much of the output of homestead gardens. No data are available on cultivated acreage; because it is not possible to estimate drop yields or to verify the quality of the production data. The data, for what they are worth, suggest a decline in production of most crops in 1976-78 over both the 1973-7) and the 1969-71 levels.

Table Q: PRODUCTION OF MAJOR SROPS (metric tons)

	<u> 3969-71</u>	1973-75	1976-78
Grain Crops:			
Finger Millet	73.9	1,016.3	40.3
Italian Millet	43.2	162.C	32.3
Maise	9.5	26.6	11.4
Tuber Grops			
5Weet Potatoes	6.1	92.5	19.6
Севвала	8.7	13.0	4.9
Cologamia	487.4	686.6	811.4
Alcessia	51.4	61.4	. 38.5
Trac Crups			
Coconute (million muta)	13.1	7.5	9.6

Sources: United Mations Food and Agricultural Organization; Statistical Appendix Table 7.7.

# Impost Dependence

If the production data are to be believed, daily per capits evailability of domastically produced cereals amounted to an average of i.5 grams. in 1976-78 as against 170 grams of imported rice and 48 grams of imported flour. This would result in a total average daily carea: availability of 219 grams per capita in 1976-78. This implies an import dependence for cereals of over 99%. Table R attempts to obtain a measure of average per depita caloria consumption by type of food comarmed. This not only implies that the Maldives imports 75% of its food consumption as calculated trop production data and measured in delories, but also that measurable food consumption is 64% of a minimum daily requirement of 2,000 calories. These calculations, however, ignors the fairly sizable consumption of noncourts, amediately, breadfruit, and other fruit grown on homestead gardens which might bring the national average. calorie consumption close to the 2,000 mark. At the same time, since a disproportionately large share of food imports alaya in Male, per capits calcrie consumption in the stails is probably below the maticall average and shurt of minimum daily requiremence.

Table R: AVERAGE PER CAPITA DAILY CALORIE CONSUMPTION, 1976-73

	Calories/Day Per Capita
Consumption of:	
Domestically Projuced Food	318.7
riek	136.2.
Cereal Grope	4.7
Tuber Crops	11,8
Coconute	166.0
Imported Food	967.0
Rice	<u> 386.8</u>
Flour	165,K
Sugar	. 214,4
Total	1,285.7

Snoran: Bank staff estimates.

6.06 The United Nations Food and Agriculture Organization (UN/FAO) conducted a thorough study of the potential for agricultural development in the Maldives based on crop trials conducted in five son) is over a five-year period (1968-72) and a survey of 162 agriculturally important islands. The enalysis ju this chapter is largely based on that comprehensive report. 1/ The main conclusion of that report was that the Maldives could achieve solf-satisficiency in foccasions even from its limited smalle land. The FAO study was conducted on the eve of a fairly substantial increase in agricultural output (in the 1973-75 period). As seen above, the performance of that sector since that peak period has been disappointing. There is, however, little doubt that the potential for expansion is fairly significant given a well-designed development strategy.

#### Resource Indowneat

- 6.07 <u>Clitivable Area.</u> The 1974 FAO report estimated a total cultivable 2/ area of about 6,900 areas, of which pearly two-thirds is located in inhabited islands, about 500 acres consist of lowlend awamp; the rost is uplend, 3/ The survey also identified sucther 1,100 acres of non-awamp lend potentially suitable for cultivation. The fortility of the suil varies with location, being assully siches in the center of the island, and gotting poorer as one moves outwards.
- 6.08 Since most of the islands are relatively small, the average amount of cultivable land on the 162 islands serveyed is a modest 42 acres. However,

Report to the Government of Keldives, Agricultural Survey and Crop Production, W.T. Butany, FAO, Rome, 1974.

<sup>2/</sup> Land that is either under cultivation or test fallow to improve fertility, 3/ Statistical Appendix Table 7.5.

the size distribution of cultivable land is very uneven, with belf the islands surveyed accounting for a mere 13% of cultivable area and 25 islands accounting for 50% of the cultivable land (Table 5). The cultivable area is also largely concentrated at the two poles of the Maldivian archipelago, with the three northermost and four southermost atolls 1/ accounting for 60% of the cultivable area. Of the remaining 12 stolls only two, Mas and Lasmu, have a sizable agricultural base; in the case of Lumnu, this is concentrated in two large inhamited islands, Camb and Isdeo-Kelsidoo, which boast the largest cultivable area in the Maldives.

Table S: SIZE DISTRIBUTION OF CULTIVABLY LAND

	No. of Islands		Cultivable Are	
		χof		% 05
	<u>No.</u>	. <u>fotal</u>	<u>Acres</u>	<u>Lotal</u>
Ynder 25 Acres	79	48.8	919	13.4
25=74 естев	50	57.1	$\mathbb{Z}_{3}(3)$	36.8
Омот 75 лател	_22	-16.1	<u>3.7625</u>	49.8
Total	162	0.000	6,869	190.0

Source: Statistical Appendix Table 7.6.

6.39 Soil. Dr. Bulany 2/ describes the soils as young, vigorous, and shallow, with the upper layous retaining broken pieces of the parental corel took. The sails are sandy-sandy-load, extremely poor in water-ratention capacity and highly alkaline, due to the excess of calcium found in the basic total rock. Soil tests have also revealed serious deficiencies in mittegen, potash, manganese, eleminion, and iron; however, the soils were tith in phuse-phonus and magnesium. Water is available from the underground long or above ground ponds and lakes. The underground water is also alkaline, but generally remeabline. Most cultivation, however, is generally rainfed, but the FAO vipors concluded that irrigated crops were possible during the north-east managed.

Sile <u>Manpower</u>. The 1977 considered towarded that 6,247 persons were suplayed, in the agricultural sector, or 19.5% of all applications. The three most important subsector activities were roots and subers collivation (37% of these employed in agriculture), detect crops (27%), and toddy tapping (20%). Toddy tapping is primarily an activity for men, while power communion men \$5:35 in all other subsectors. 3/ Given the low levels of open unamployment and the secondary status of agriculture as an accompation, a concentrated astropy to increase agricultural productivity of fishing operations, more (about cools be released for crop cultivation. But the sector would require a substantial improvement in returns and improved productivity in agricultural operations to be an attractive economic sotivity.

<sup>1/</sup> Has Alifo, Has Obsalo, and Shaviyani account for 34% of the available area; Gasi Alif, Gasio Dheele, Gasviyani, and Seemo account for 26% of the area.

 $<sup>2</sup>f = \Gamma \Lambda O_{\rm t}$  apticit.

<sup>3/ -</sup> Aracistical Appendix Table 1.7.

### Institucional Infrastructure

The Maldives lacks the most basic institutional infrastructure 6.li needed on meant an agricultural development program. The Ministry of Agriculcure has formal reaponablisity for the acotor. Its primary function continues to be leasing of government lands and the issue of permits for the felling of timber for boat building and tirewood. The Ministry has instinted a few relatively modest development programs; it lacks the starr, financial resources and transport facilities to undertake anothing larger. The staff of the Ministry numbers 2B of which there are only two professionally trained agriculturalists. Seven outstations staffed by field officers provide limited extension services, working mainly with small amounts of donated materials anch as forcilizors, insecticides, and seeds. There is virtually no institutional credit; the two commercial banks do not undertake any credit operations in the stalls. There is no regular transport between agricultural exumplus and deficit islands, and no assistance to fermers to market their produce outside their islands/atolis.

### Production Potential

- 6.12 The crop trials conducted by Dr. Butany astablished that: (a) with proper crop management, yields could be doubled or crebled; (b) diversification away from the present range of crops to a number of warm weather crops including pulses, cilaseds and cobacco, was possible; and (c) rice could be grown in swamps and tow-lying areas.
- 6.13 The following approximate use of the 8,000 acres of con-swamp land was suggested by FAG:

new coconne plantations — 2,700 seres timber tree plantations — 1,300 zeros maize (northero atolis) — 2,000 zeros aweet pobacces (southern atolis) — 2,000 geros

Together with double cropping to the south, intererapping of fundstains on the coconut land, and of rice crop in the low-lying areas, food self-sufficiency was thought pussible. To achieve this objective, the FAO recommended a number of measures: (s) improved cultivation practices including crop totalion, use of organic manure, foliar spraying for outritional deficiencies, use of insecticides and posticides, and windbreaks; (b) provision of the necessary infracturature (seed multiplication farms, transport, sturage, extension services, etc.); and (c) improved incentives, through lower restail payments by sublessees, and longer and more stable lossing arrangements. (For a description of land tenore, see para 2.11.)

6.14 The FAO's development plan for the agricultural sector still remains relevant and deserves greated attention from the Government than it has so far received. It is, however, an ambitious program and cannot be implemented all attence. Also, it may not be either necessary of even economically desirable, to aim at total food self-sufficiency, although the very righ transport costs suggest some comparative advantage in a strategy that aims at increased domestic food production. The Government should, however, and more realistic

goals that take into account the limitations imposed on implementation capabilities by small and scattered cropping areas and markets and inadequate transport facilities. A set of priorities will need to be defined, and the machinery for planning and implementation will need to be strengthened in tandem. The following tasks appear to deserve priority in the medium term;

- (a) coconut rehabilitation;
- (b) import substitution in agricultural produce needed to meet the growing needs of tourism; and
- (b) integrated atoll development programs for a few carefully selected agriculturally important atolls with the explicit aim of increasing living standards and per capita avail ability of locally grown food on those atolls.

## Goconuc Rehabilitation

- 6.15 Content rehabilitation is an obvious priority. The cocount is an important element in the everage Haldivian's dict; it is consumed both directly and as a cooking medium. The cocount palm provides thatching and basket from palm leaves, brown brushes, mats and handicrafts from coir, cocount oil and copra from ant, pulm sugar from the specie. Hany of these items are in considerable demand from the tourist industry, particularly for construction and furnishing of tourists resorts and handicraft purchases by tourists. Cocount trees are the primary source of wood for boat-building. Prior to 1971, the Haldivas also used to export copta, and this appears a feasible option.
- 6.16 Coconat production appears to have been declining in the 1970s. Mields are low (about 11 mmbs wer trea) and declining. Due to overcrowning, the country's one million palms compare for sucligat, maisture, and nutricats, An FAO survey 1/ estimated an average of  $190\,$  coconut trees per acre (compared) to the more desirable 70 per sorm found on plantations) with 48% unproductive and the rest tapering it production. The evercrossing, however, offers one advantage: it provides the curvature convenient to boat-building. It has been estimated that rodent control alone could result in a 49% increase in production. Together with thinking of coecout stands and improved cultural graptices, second yields could double. A modest redest renoral program has been initiated by the Ministry of Agriculture with the help of FAO. Since the transplies of the trees touch, the success of such a program is contingent on thinking not the coconst stands. Moreover, since the moderns can be inadverseently Granaferred from island to island by regular boat traffic, a massive overall ecodication officet and diligent surveillance are required it the besinflits of the program are to be austained. The clearing of undergrowth is likely to be resisted slace it deprives islanders of their only soutce of much energed fuel. This suggests the need for an integrated strategy linked. to provision of alternative fuels through the local production of charcost and a reforestation program for fuelwood and timber needed for boat-building. The possibility of intercropping on cleared coccurt land may provide some insentive to both chinning of scands and the clearing of the undergrowth.

UNDP-Terminal Report MDV/71/001 Coconat Rehabilitation Bilot Project executed by F&O.

b.17 The first-round increase is yields from a rodest control program could be showned by demontic demand. Further increase in yields would be dependent upon delivery and implementation of a more complete parkage—fertilizer, thinning, improved varieties, and extension services. This second-round increase could be directed towards export markets, in the form of copys. A rough calculation, based upon correst market trends for copys and the relatively low cost of production in Haldives, shows that copys exports are likely to be competitive, despite the relatively high transport costs. The margins between export price and cost of production appear to be large enough to support as extension service and input costs as well as internal transport costs.

# Food Requirements of Taurism Industry

6.18 The rapid growth in fourism has resulted in a sizable demand for imported meat, eggs, vegetables, and poultry. A selective import-substitution program in periahable items would appear to be putentially highly profitable. This is aiready being established by a successful pilot project or Thoddoe island in Alifo aboll, where your, beans, cabbages, onions, chillins, and lections are being grown for expurt to Male and the two recently established youltry farms. DIFL data on food imports by government hotels 1/ suggest that demand for each imports from the industry as a whole offers an opportunity to increase the emportion of local feed sales to the tourism sector. If this is to be achieved, it will require the establishment of machinery to provide a comprehensive package of services including extension, transport, cold sturage, and marketing. The experience with the newly started poultry farms suggests that veterinary services will also be needed. Since imports are costly and sbipping aervices erratic, eventual returns should more than justify these initial investments in infrastructure.

#### Integrated Atoll Development

Amelysis of the size distribution of cultivable land suggests that 22 agriculturally important islands, with 75 acres or more account for nearly half the country's cultivable area. Mercever, most of these islands are clustered around the two extremities of the Maldivian archipelago. This geographical concentration eases the task of initiating a well designed intergraced agricultural development program for these areas without preatly straining the available administrative, managerial, and transport resources. The Government would do well to initiate the preparation of projects designed to tap the potential identified by FAO ic a few of the larger islands in the three northeromest and four wouthernmost atrills. Such an approach would have the added attraction of reinforcipy the Govarnment's larger objective of securing more balanced regional development. The pilot project for integrated aboll development is correctly being prepared with assistance from the UN Economic and Social Commission for Asia and the Pacific (RSCAP), 2/ Such projects should ideally focus on the needs of the agricultural sector and be located in those atolis in the north and the south with the greatest agricultural potential. The emphasis should be on an integrated strategy, including cash coops, esculutrehabilitation and reforestation. All necessary inputs and services will need

T/ Statistical Appendix Table 5.4.

<sup>∑/ ≤</sup>ee alao pera θ.05.

to be provided in packages appropriate to the local conditions prevailing in each island. This will eventually require regional anti-research act seed  $10^{15} {\rm ip}$  intaling programs.

The chies priority progrems recommended above, while modest infiletions in relation to the size of the task, will mevertholess severely strain the present limited departifities of the Ministry of Agriculture. The Covernment will need to segmi technical assistance both in the form of exponent and braining programs in order to undertake these programs and the required planming and project preparation work. The success of (sege programe is also contingent or measures designed so improve producer incentives. Past experience suggests that Maidivian farmers are quick to respond to price incomtions. In the area of footgrains, the availability of subsidized rice and where flows has had a strong distincting offset on demestic production, genticularly since rice is preferred as a deceal to maize and other control grains. A gradual demoval of the sublidy should have a mosfrive impact of dimuotic predoction. The insiequency of transport and marketing facilities also has an adverse impact on producer incentives. A third ischer is the absence of any security of tenure for both lesseholders and and-leaseholders, which together with the one-eighth lithe to the primary (gasghalfor an inhabited islampe is a include dislandative to any improvement in authors. pressions. A review of president inventives will need to be an integral part of a sector strategy for agriculture.

#### 1NBUSTRY

# Output she Employment

6.21 The industrial sector 1/ accounts for 6% of GDP and 26% of employment. It consists largely of cottage industries, handlerafts, small-scale fabrication, and repair. Four-rifths of total employment consists of the manifecture of coir end coir products and other handlerafts, an activity largely dominated by women. Scrustural timbers, furniture, and fixtures are the second largest source at employment in tatafacturing, reflecting a strong host-building tradition. Other sub-actions include manufacture of construction measurials (total derivatives), best maintenance and repair services, and a mixable informal sector is such varied fields as bicycle and radio repairs, tailoring, smithery, and. The sector primarily produces for the home market. The only notable exceptions are the tuns-canning factory established in Liewiyani atell in 1977 and a mice textilection plant in Male which tanufactures mice plates for disconnection comparents for export.

# Potential for Industrialization

6.22 The potential for industrialization is limited by the size of the market, the level of development and the lack of the physical, institutional, and legal infrestructure. Nevertheless, there is potential for satisfiabling on a modest scale a small industrial sector that establishes workward and forward linkages with the three key sectors: agriculture, fishing, and termism. Stimety production in the islands is still predominantly subsistence in mature involving inetficient practices and low productivity. The transformation of

 $<sup>\</sup>frac{1}{2}$  - Quarrying, menofacturing, construction, and elementarity,

the traditional sectors requires, inter alis, better face implements, effisical fishing goar, and organic fertilizers. There is, therefore, a potential for amall-scale iddustries to manufacture and remain implements and tools and to process fish to produce fertilizers and poultry face as by-products. With an increased variety and volume of spricultural and fisheries production, grain milling, idemasking, food processing, and preservation are also possible.

- 6.23 A number of toosumer products, contently imported, sould be produced locally. These include salt, frozen poultry products, preserved fruit and vegetables, fruit beverages and suft drinks, confectionery, and pastry. Such products would need the meeds or the local population and the tourist sector, which is presently highly import dependent. Several small-scale and cottegetievel menufacturing activities are also possible based on agricultural, industrial, and consumation weakes. For example, plant straws, grass, and woods one he word to manufacture particle heard for construction; naper waste can be handmade with simple machinery into packaging paper and egg-trays that would be needed to deliver eggs from poultry facus; word dest and shaving from importing, bost-building and furniture enterprises could be compressed into furl briquettes.
- industries. As noted in Chapter TV, processing will add considerable value to fish exports. There is also a substantial detail for traditional bandical to fish exports. There is also a substantial detail for traditional bandical traditional bandical traditional bandical traditional bandical traditional bandical tradition and the contrast of the process of the construction between the forest trade rose possibilities in the present book conditions for the construction sector in Nate and other islands in Kasia sholl. Comment blocks, pisseer buside, plywood, and timber can be partisetured from local materials such as sand, lime, and cocount trees. With the highly developed traditional skill of campatry, 1/furtibure making also offers considerable scape. Service-related industries are also relatively undeveloped and can be expanded profitably. There is good potential, for instance, for laundry and dry cleaning, printing and centals, repair and maintenance shops for electronic goods.
- G.25 The Government is considering the establishment of an expert processing zone in Gae to attract foreign idvestment. Realization of the project depends on the establishment of air and sea demandications with the real of the world and the depacity of individual industries to bear air or sea fixeight costs. Unless the industry is based on local desources, such as fish or commute, the local linkages and domestic value added are likely to be small. Since the capital costs are also typically low, such investments can be highly tobile, and an operation may be closed down, regardless of the consequences for the local economy. The proposed Gan redevelopment achomics will, therefore, near to rely on a more accurabase, such as tourism.
- 6.26 The realization of the country's industrial potential will require above; initiatives by the Government is the following areas: (a) the proparation of an everall industrial policy and the establishment over time of

<sup>1/</sup> The 1977 census reducted 1,294 carpenters and woodworkers, the largest single skilled category.

institutions that will be responsible for its implementation; (b) the ensetment of company taw legislation, mortgage and banking laws, and a foreign investment that that provides accountly to foreign investors; (c) the creation of extension convices such as the provision of tarket information, basic technical knowledge and management exitle; (d) the establishment of a medium- and long-term financing famility; and (e) the improvement of basic infrastructure, such as aleed lodby, water supply, saf inter-island management.

6.37 Civen the becare manpower and administrative constraints, we would not recommend that these initiatives be pursued all at once. The Lirst two objectives deserve to be halked up immediately with objective technical espisioner. The third and founth objectives could be related to the establishment of the EMA. This Authority could be due occase diversify its fine-prime to make take when extremal assistance some medical and long-term development housing. Alternatively, the termist development timence tamility proposed show could diversify into small industry (see para 5.21). The lifth objective is discussed in detail in the next Chapter.

# VII. ECONOMIC INTRASTRUCTURE AND SOCIAL SERVICES

SCONONLO INFRASTBUCTURE

## Shipping

Transport links with the untside world are, quite literally, the 7.01 lifeling of the Maldives, bringing in espectial imports without which surwivel would be next to impossible. Remoteness and a bigi level of dependence on external crade make the adultsy highly vulnerable to disruptions in shipping services. Knocover, since the Muldives is the small to be able to influence the price of its major export, figh, it finds itself absorbing the transport costs of exports, while its remoteness imposes an additional premism on the cransport costs of imports. This withaction is inother aggravated by the imbalance in the freight tounage of exports and imports. Imports, as empressed in physical volume, outstrip exports by about 2:1. If fresh fish exports are excluded from this calculation (as they should be, since they are amported wis collector washels belonging to foreign companies), the ratio has averaged 10:1 in favor of imports over the last five years. in other words, vessels bringing cargo to Male invariably return empty. As a corsequence, regular liner speritions to Male have become unecomment and coased altogether.

Table T: PHYSICAL WOUNT OF TRADE (\*000 metric tans)

	<u> 1974 </u>	<u> 1975</u>	<u>1976</u>	1977	1978
Imports Exports of which:	19.8	18.7	27.9	02.8	19.3
	8.7	8.1	10.4	12.7	13.1
Presh Rish	4.7	5,9	8.6	10.9	11.2
Doy Wish	3.8	2,9	1.7	:./	i.8
Other	9.2	0,2	0.1	0.1	0.1

Suarce: Customs, Shipping Department.

7.02 This would have been a disaster for the Maidives but for the foresight which led to the establishment of a national shipping line, MSL, welch now provides the country its only effective sealink with the rest of the world and ferries almost all of the country's incorrational trade other than fresh fish exports and a small but rapidly growing volume of perishable and high value imports which are brought in by all freight from Colombo and Trivandrom. The existence of MSL has also greatly teduced the freight costs that Maldivian importers may have had to been had they been dependent on foreign shipping. Although MSL does not directly sussidize Steight, its cate structure foes not attempt to shift the full horden of higher unit costs arising from the lower capacity utilization of outward-bound journeys to the freight rates imposed on the relatively fully utilized capacity of inward-bound journeys.

7.95 MSL's origin lies in the Maldivea National Trading Corporation (Caylon) Ltd. which was established in 1948 and operated ships between India, Burma, Caylon, and the Maldivea. Restrictions imposed by the then Sovernment of Caylon on the acquisition of additional contage named the Government of Maldives, an establish in 1966 a separate shipping company, under Maldiviso taw, MSL began operations with two 2,500 tens vessels. Operational head-quarters were originally induced in Culombo and later shifted to Singapore; administrative offices were located in Bambay and have been shifted to Male. MSL is a marbur of two conferences, 1/ but the majority of its flect operates on a tramp heads. While initially astablished to ensure transport service for the Maldives, the Maldivied trade now represents a negligible cornion of MSL operations (Table U).

Table U: MAIDINGS SUIPPING SIMITED: SOURCE AND DESTINATION OF TRAFFIG, 1978
(% of Treight considerried)

	Saurra	<u> Destination</u>
Meldives	п	2
Sri Lanks	12	7
Jedian Subcomilient	22	7
≼ha Golf/Weat Asia	30	96
Japan/Korea/China	2	5
Antibodet Asia	<u>i</u> 3	10
Eutopo/USSR	<u>15</u>	<u>3</u>
	<u>100</u>	<u>150</u>

Sonton: Maldives Shipping Iti.

7.04 MSL's turnover, excluding the melaced companies in which MSL owns shares, is now of the same magnitude as the entire gross domestic product of the Maldives. Until the shoop in worldwide shipping in 1977, MSL operations had been highly profitable. These profits were nothined in large measure by MSL to finance its own expansion. The first at ent-1978 stood at 79 vessels totalling about 84,000 GRT and employing about 700 Maldivian atamen. Mean'v gi) vessels are registered in the Maldives. The average size of vessel is small (2,800 GRT), and the average age is about 24 years. As part at a modern-ization progress, MSL is planning to replace about twelve of these smaller, older dissel-powered vessels with three 15,000 GRT break provered vessels. This will entail componed because a scale never before attempted by MSL.

7.06 MSL size acts as managing agant for about ten smaller shipping companies, in which it is a large anarcholder (averaging about 30%) and to which MSL has granted loans. MSL-managed companies appear to be run as an integral part of MSL operations, with about one-third of control offices expenses charged as management fees. These companies gomerated revenues of about

 $<sup>\</sup>overline{\underline{1}}/\overline{\phantom{1}}$  Frf Lumber-Arabian Sulf-Middle East and India-Bacgladesh-Burma.

\$14.5 million in 1976, compared to \$19.5 million Stor regular MSL operations. They collectively exced a filest of 16 vessels in mid December 1975, totaling 72,000 GRT; the everage size of versel is about  $\pi,500$  GRT and average age is about 92 years. The abace of MSD-managed companies is total fieldhi tons carried by the joint operation most from about 28% is 197% to 45% in 1978. Ly For an equity invisiment of about \$385,000, these companies have returned shoot \$900.000 to MSL as dividently over the 1973-76 begind.

Although KSD has ploughed back must at its profits into fleet expansion, it has nevertheless asonged in transfor simular profits to the Government which have been at important commitmation to revenues sai foreign exchange eartilegs. In the 1975 78 period, these profits accounted for 22% of Covernment revenues 2/ and 14% of gross foreign exchange warmings. The tecent decline in MSI, profits is a source of considerable conserva. An emplysis of MSI, accounts 3/ auggesta that this is the form to interpased operating costs than to the desline in revenues. Handling, numeriorage, and oram coats iccreased signifigurity over 1975 levels. Togorance costs, as related to book value of the fleet, made then doubled, although the 1977 mate is not cot of line with that expedienced by other similar companies. If you the age and composition of the Floot, the oterating expenses associated with last and repairs amortisingly donot expend to be the cause of increased in operating tests. Although MST. s revenue decline reflected i teduction in traight tons commigd, MSTA-ranaged. operations showed as increase in Preight tank carried enabling the group as a whole to record a healthy 68 sie; al increase over the pecied, 4/ world scipping resovered from its sleep in 1978 and 1979. But this is yet to be fully meflected in MSD profit transfers to the Government. In view of the importance of these Erausiers to both the balance of payments and Government revenues, a carmid revaluation of MSL's modium-term operational and investment strategy is nesded. This will also assist the Sovernment in its planning exercise by providing a limber estimate of what night be expected from MSD in terms of transform even the maxt few years.

# Port Kacilitles

Mais port offers limited facilities for oceangoing traffic. There is no despreaser borth and, excanse of congention, 5/ even small, foreign trade vessels are not allowed within the lines harbor. Septits within the bordon and shellow (C.5 to 3 meters) while immediately outside the break-

Statistical Admendix Table 8.5.

Stadistical Abpendiz Table 5.1.

<sup>7/</sup> 1/ Based on its andicen amnorate for 1975-77; these accounts to not always appear to be internally consistent and require a much more careful analyssis than was possible to undertake within the true evailable for the propsmation of this report. Moreover, the mission did not have access to the The addited accounts of MS1-tanaged companies. (See Statistical Appendix Tables 8.6 and 8.7).

Stanistical Acception Table 8.5.

Fishing boats, intervisiand traitio, toutist howes, north extraction ressels, and maintenance/remain/refueling operations all use a harbor of approximately 1.350 Leters by 50-60 meters.

water, the sea had drops very acceptly to 60 meters. Imports are obtained by lighters, which are habled by tugs to the commercial section of the barbor and off-loaded there by mubile crane. The system is slew and laborious, necessitating multiple handling of goods. About 50 ships visit Main each year with an average terraround time of about a week. If It is conjusted that current facilities could hardle about 40,000 MT par year, compared with a high of 32,500 MT of actual trace in 1977.

7.08 The UK Sycholas Development Administration sponsored the proporation of a decalbility study for improvements of Male barbor. The constituate recommended a realignment of service stass within the inner barbor, accentuation of a deep borth mutaide the inner harbor for foreign trace vessels up to 12,000 031, improvement of breakwaters, and construction of a slipway and workshop for steal-holied vessels up to 100 tons. As the present jutty at Unique airpant is inadequate even at present levels of tourist activity, the communities also recommended dreakying a shannel and providing landing jettics buy landers to early visitors and light cargo. These development proposals would cost toughty \$3,500,000. The Government is devicting these proposals and considering indertaking a less ambitious program.

# Titer-Taland Transport and Communications

- 7 C9 All inter-island traffic goes by sea. Traditionally, the carriage of yeaple and goods between islands was organized within each island community on a lamily, friendship, or bester basis. Surpluses of Maldive fish were multicely carried for sale in Rale from all parts of the Maldives and thus islanders were perilted ancess to imported goods. The mechanization of brats has prought about improvement to inter-island transport services. The simplified of growth attribed with the construction of the British base up land period of growth attribed with the construction of the British base up land in the land 1960s, which can a strong traffic escation effect in all four southers stolls. The second growth period began with the build-up of tourism facilities and machanized fishing in the mid-1970s and was deducted on Male. Moreover, some of the mechanized fishing bosts are as often as not used for carrying goods and people.
- 7.10 There are no date available on the volume of intermisland traffic, nor on the number of boats explosively engaged in branaport. The 1977 sensus gave a total of 7,000 people working as boatsmen or crew members, other than in fishing and tourism. Excluding MSL scarce, this gives roughly one boetman for aways 45 people employed. In broad publice, the system which they now operate constats mainly of sailing links (or daonies) for intermstoll traffic, and of mechanized busts for intermstoll transport, particularly to and from Male. Most traffic is between Male and individual stolls; there is little traffic between stolls. There are an regular schedules; journeys to the scathern stolls hay take as long as a work because of the frequent stops necessitated by the hissaids of eight travely due to imagerous regis. Pefore leaving Male for the stolls, every due; skipper must report to the Ministry of Roma Affairs, where he may be instructed to transport to his stoled destination certain persons or goods, including muit, on behalf of the government.

<sup>&</sup>lt;u>I</u> / Statistical Appendix Table X.X.

Take services are usually provided free. There is little information on inter-island transport costs, except that they vary widely. Transport is estimated to add less than 5% to the cost of rice, sugar, and flour moving from Male to the atolls; but fare-paying passengers, for example, from Male to Hichardoo in the south, may be charged from MR 10 on a transfer to MR 300 on a large mechanized doord. The sector is certainly profitable, findsing by the considerable amount of new investment in boats taking place in 1978/79. Boats to transport tunnists in the Male region are considered a particularly goes investment. They can show returns on capital of as much as 75% a year.

- 7.11 The present system is insdequate to meet the country's social and cubumic development needs. On the social side, lock of interwisized transmost is the most scrious constraint to the social of education and health facilities to the stolls. Import substitution in relation to Male and the tourist sector's consemption of fresh fruit and vegetables could also become a semility if regular and faster intermished transport services were swall—able. In the tourism sector, downstic transport presents two particular problem areas. Firstly, within the present tourism region—a 70-mile radius centered on Hubble sirport—there is much duplication of transport services among the resurce, and the likelihood of serious congestion of Hubble jetty radiities when the sirport expansion project is completed (para 1.21). Secondly, the benefits of tourism development have been limited to the Male region because there is no adequate transport from the sirport to other stolls.
- 7.12 The Asian Development Bank (ADS) financed consultants have propaged A feasibility study for an inter-islant transport and communications project. Proparations for such a project, including provision of retorised passenger/ cargo vessels, suitably fitted with ravigation and communication equipment, improvement of share and maintenance facilities at acheduled ports of call, provision of navigational aids and facilities for weather forscenting, and improvement of the existing celecommunications system are underway. As purt of the special atoli vote for basic infrastructure improvement in the islands, the Sovermuct, is also undergaking a shall showner to devolot the inderbarbors of several relands. In its preliminary report, the ADD seknow edged that the viability of an intermisland transport project was difficult to assess at this stage. The experience of other IDCs suggests that the purely technical problems of inter-island transport are not too difficult to everyone; the major problems are financial, managerial, and applied. If Ir all probabilities lity, Gramaport findes with outer islands are onlikely to be Simancially Viable. due la Lee small and infrequent volume of commercial traffic; their provision. has, thorefore, to be seen as a matter of national social policy.
- 7.13 Toter-atoll communication between Male and the stuff capitals is through a network of UP transceivers (25 w output). Within each shall, communication between islands and also with heats in by unthis-talkie; there are approximately 1,000 licensed walkis-talkies in the Maldives. A VHF radio telephone system links must of the tential resort islands cear Male to the capital. The HF transceivers have not worked efficiently, rainly because of

<sup>1/</sup> United Nations Conference on Trade and Development, op. cit.

problems with power supplies. Each stell is supposed to have access to winddriven generators, but must are in disrepolar and batteries must be carried to Male for recharging. When NV transcolvers cannot be used, messages are relayed by walkis-talkis.

- 7.14 The Telecommunications Depertment (TCD) is responsible for both the incer-stull directs and external communications. TCD has prepared a program for operating the services to the stolls. This would establish a multi-channel microwave transmitter in Male, with repeaters and solar panels for power supply in selected islands in each stoll, end a VRF distribution system to reach all islands within each stoll. The microwave transmitter may also carry radio and TV broadcasting. The cost of the microwave link, excluding the VNF distribution, is estimated at sourt \$5.0 million. Funding for such a major undertaking has not yet been arranged. [As part of the ADS inter-island transport atoky (paga 7.12 above), the inaximility of replacing obsolute NF and VNF sets in the islands, as well as a coastal radio station for marine service, is being investigated.]
- 7.15 External communications are provided via a satellite month station, which was installed in 1977 with assistance from Abo Dhabi. It is equipped with four channels and is capable of transmitting and receiving telex, telegraph, cassimile, and data traffic as well as voice channels. The Government of Kaldives granted sole rights to operate the international point-to-point telecommunications facility to a private company, Gable and Wireless, which pays a certal of \$47,000 per year for the use of the facilities as well as 20% royally on the income from international telephone and telex services. In 1976, this royalty emounted to about US\$11,000, up from about US\$5,000 in 1977. External communications are now more than adequate for the country's needs.

## THE MALE CAPITAL RECION

Halm has experienced very rapid growth over the past decade. Its puputation has increased more than two-fold to 30,000, and the level of economic activity has incressed more than commensurately. Futil the late-1960s, there had been strict togelations limiting emigration to Mule; but new the only restriction is available space. The area of the island in 1940 was about 108 mectares; land reclamation within the surrounding reef has incressed this to about 139 hectares. Plans are underway for reclaiming a further weren hectares at a cost of shout \$5 million. These extraordinary measures have been taken to accommodate not only the people forced to be relocated from the nearby islands taken over for the airport and fuel storage, but also those emigrating from outer islands in asarch of a better life lu-Male. The demand for water and sanitation, electricity, roads, and housing has obtainipped the expanity of the agencies sasigned to provide those sawidea. The Government appears to be responding to beeds in each area on an adhow basis. These separate progress are not being coordinated and reconciled, which could prove both costly and wasteful in the medium lerm. Moteover, there is one important issue that cuts across the sub-sectors, and needs to be addressed. Nost of the more capital-intensive projects will involve fairly high operational and maintenance costs. Goat recovery may prove difficult, however, particularly in sub-sectors like electricity, where tariffs are already very high. There is a strong case for preparing a separate urbat renewal plan for the Male capital region, which integrates these various

initiatives and issues and relates over the next two decades the supply of essential services to the demand generated by the rapidly growing population of Male and the surrounding islands of Masfu atoll where much of the projected expansion of courism is expected to take place. Some of the major components of such an orban renewal plan are discussed below:

- 7.17 Water and Senitation. About 86% of the population of Male depends on groundwater, while 14% use tainwater for drinking purposes. There is no piped water supply system. Due to the geological configuration of the island, the method of human excreta disposal pollutes the drinking water supply (see para 7.37). The Water and Samitation Authority (WAA) operates a chlorination program for all public and some private wells in Male and a sewer line which drains the area adjacent to the barbor. This, however, is an important trasponant to the lack of safe drinking water. The Government has, after reviewing various alternatives, opted for a program of multiple rainwater collection tanks (with feeder asins), and an aqua-privy system for excreta disposal. These works are organicly needed in the recently reclaimed areas, which have been opened for settlements without access to water or to non-polluting sanitation. German assistance is being sought for financing of these works.
- 7.18 <u>Pover.</u> Make is the only island with government-sponsored electrification. The tourist islands and several other inhabited islands have installed their own milebased generators. The 1977 census indicated that about 60% of the households in Male are electrified. Based on a sample survey, consultants 1/ have estimated that over balf of these households have at least five lighting points, about 70% have radio connections, and about 40% have electric fams. As shown in the table below, there has been an extremely fast growth in demand for power in all sectors, with demand for menufacturing outpering all others. Demand for residential use, manufacturing, and utilities is projected to double by 1980 over the 1975 level (Cable V).

Teble V: MAJE ROWER: COAD DISTRIBUTION (KW)

	<u> 1965</u>	<u>1970</u>	<u>1975</u>	Average Amoual 2 Thoroaso 1965-1975	7orenast 1980
Residential	55	120	250	14.4	45C
Manufschuring	_	50	210	33.0 /a	48C
Other Commercial	45	92	205	14.4	გგი
նոսրդդաթըն	42	95	130	12.0	180
Scilitiea	33	70	130	14.7	276
OLhers	<u> 15</u>	<u>25</u>	<u> 30</u>	7,2	<u> 50</u>
	<u>200</u>	<u> 152</u>	<u> 955</u>	<u>1619</u>	<u>1,810</u>

Ya Growth rate pertains to 1970-75.

Source: J.C. Engineering (Pac) Ltd., op. cit.

<sup>1/</sup> Fearibility Study for Electricity Department in Male, Republic of Malaives, J.G. Engineering (Fig.) Dtd., Singaporo, June 1978.

- The current installed capacity of the Electricity Department is 3,114 KVA or 2,493 KW, from mine dissel generators. This is sufficient to meet current demand. However, three of the generators are over 17 years old and badly in seed of replacement. The effective capacity will need to be expanded to meet both current and acticipated increases in demand and to match the planned upgrading and expansion of the power distribution system in Male. The present distribution system is considered both dangerous and uneconomical in some areas and is extremely susceptible to protracted breakdowns. power factor at contain sites averages between 0.45-0.6 lagging and voltage varies between 125-160. These extremely low voltage conditions are primarily due to imbalanced load distribution, inappropriate distribution line composents, and lack of power factor correcting devices and apparatus to restrict high scarting current up electric motors. The Bleatricity bepartment engaged e firm of coasultants to prepare a feasibility study to apgrade the power distribution network in Male. 1/ The study was proposed a relatively simple program of work costing over \$2 million in 1978 prices.
- 7..20 The Ylectricity Department has a cotal staff of four engineers, six ussistant engineers, six bechwicians, and about 60 semi-skilled and unskilled laborers. Due to lack of sufficient numbers of trained staff and financial rescurses, the Department is unable to supervise the system and maintain equipment. Blectricity tariffs were maintained at artificially low levels for the 1974-76 period with losses covered by the Government budget. In mid-1977, the take was increased from MR 1.0 per KWH to KR 1.75 in order to build up a capital fund to purchese two additional generating sets. After the new sets were purchased and installed in mid=1978, the rate was reduced to MR [150] pur KWE in October 1978 a level at which they merely covered the then prevailing operating costs. With the subsequent cost increases, it has been calcoissued that the rates would need to be raised to at least MR 2.0 per KWN just. to cover mid 1979 operating costs. The cost of imported oil has continued to rise steadily and further rate increases appear unavoidable despite the fact that these power rates are high by international standards and in relation to what consumers can afford to pay.
- 7.21 Roads. Male's road network is highly developed. Vehicle traffic is mudost; most people travel by bicycle or on foot. The number of vehicles registered in Male in 1978 was as follows: 19 lorries, 12 vans, 108 care, 312 motor cycles, and 15 tractors. 2/ a major problem is storm water drainage; during the monshops, water collects of streets. As the Government intends to pave about of the major streets, it will be necessary to incorporate a drainage system to prevent moisture penetration of the subgrade and of the foundations of roadside buildings and boundary walls. A consultant 1/ has recommended providing storm water grating and cubenments every 30 to 100 feet on either side of the carriageway. The cost of paving about six miles of road, including appropriate subgrade and drainage, has been estimated at about \$1.2 million in 1977 deilars. The expenditure involved is high compared to other constricts

<sup>1/</sup> Op. cit.

 $<sup>\</sup>overline{2}I$  Report of Mr. M. K. K. Sabar, Consultant, Sebruary 1977.

<sup>&</sup>lt;u>3</u>/ <u>Op. cit</u>.

because the ground levels are so close to sea level and the underground lans is so shallow. As this system will have a significant impact on the natural drawage and percolation of rainwater, coordination with the WBA programs will be necessary.

7.22 <u>Telecommunications</u>. The Male Telephone Exchange has a 300-line partial and 550-line automatic colephone exchange. The existing number of telephones and telex lines in Malo has already neached 844, considered to be close to the maximum capacity of the present system. Ever 100 customers are waiting for additional lines. The breakdown of the existing beliephone and telex lines between public and private sectors is an follows:

•	Fublic Sector	Privats Sector	<u>Potel</u>	
Telephones	• • • •			
Marsua I	5.3	235	299	
Antomatic	202 1	291	493	
Public Telephore Booths	_	4	4	
<u>Yelex</u>	X	40	46	
<u>Total</u>	272	<u>571</u>	<u>544</u>	

IGD is discussing with the Covernment of Singapore the possibility of adquising on a grapt basis a 3,000-line automatic exchange, which would be sufficient for projected demand over the next decade.

SOCIAL SEBVICES

# Education

7.23 Three Streams. There are three quite separate streams of education in the Maldives, each responding to a different set of diremstances and needs: the Institional Engance schools (makthess), the Dhivehi-medium schools, and Ruglish-medium schools. There are no higher education facilities, and Maldiv-ians have traditionally been sent abroad on scholarships to pursue university education or other agentalized training. Ministry of Admission statistics 1/ show eardlment in the three streams in 197) at about 36% of the negotiation in the 5-24 age group:

	Number	<u>% of Total</u>
Students Enrolled of which:	24 , 2 0.3	100.0
Makohaba Whivehi-medium Knglish-wadium	10,309 8,770 5,124	42.5 36.2 21.2

I/ Consus data (Statistical Appendix Table 10.6) suggest much lower overall entallment ratios. Ministry of Timestics data way include dropouts and those registered but not attending.

- 7.24 The makchabs still constitute the backbone of the Maldivian education system. Epread in a thin layer across the entire chain of atolis, they are designed to impart to the young of both sexes the teachings of the Koran. Most of these schools also take the opportunity to teach the young to read and write Dhivehi and to do simple arithmetic. The makthabs must be given due tredit for the very high level of adult literacy in the Maldives (82%) which is remarkable for its uniformity across age groups and sex. 1/
- 7.25 Ite 53 Dhivehi-medium primary achools provide the only formal achooling in the atolls to a wide age range (between 5 and 24). These schools receive no assistance or supervision from the state, and are financed from voluntary contributions and for payments. The teachers are usually partitime and poorly trained. The curriculum is typically a continuation of the Koranic schooling: reading, writing, asichmetic, and religion.
- 7.26 The English medium stream is relatively new, having been introduced only in 1961. It is designed primarily to prepare students for the GCL Oblevel exerinations of the University of London. 2/ It comprises one State preventual, two full-cycle (Grades 1-10) State schools, one each for buys and gir's (about 1,100 students each), the Science Education Centre and one private school which receives some Government aid, all located in Hale. Buglish education is highly sought after, with children sent from the stells to Hale to avail of the facility. The system has produced 450 D-level graduates who already constitute a strong peer group. The English-medium schools, which are largely staffed by expatristes, have been successful in reducing the number of Maldivians who gu abroad (to Sri Lanks or India) for schooling. The recent introduction of A-level courses will further reduce reliance on eversess education.
- 7.27 Objectives. While the admostional system has been successful in ensuring high levels of literacy, the low level of connectional attainment of the population as a whole 3/ leatifies to its insdequacy. A mere 20% of the population above age five has completed primary school. Only 1.2% have completed secondary school. The contine country bossts only 56 university graduates. Moreover, while females appear to face no discrimination in terms of socess to primary admostion, their share in middle and secondary school completions falls no 32% and 26%, respectively. Not surprisingly, the conference elits is heavily concentrated in Male; 85% of those with secondary school achoes placed to above see residents of the capital.
- 7.28 In recent years, the Government has come to recognize that the system is not geared to meeting the manupower needs of the country, both in a quantitative and qualitative sense. As a consequence, Government expenditures on education have nearly doubled from 3.4% of total expenditures to nearly 8% between 1974-76 and 1977-79. These are supplemented by fairly sizable multimateral assistance programs that are substantially larger than the Covernment's own expenditures on education. These increased outlays are being directed at three objectives: (a) attaining the goal of universal primary education; (b) increasing the catout of secondary and vocational achools to meet the

<sup>1/</sup> Sustistical Appendix Table 10.4.

 $rac{If}{I}$  Some students also sit for the London Chamber of Commerce and Industry elementary and intermediate level examinations.

<sup>3/</sup> Statistical Appendix Table 10.5.

country's trained manpower needs; and (c) upgrading teacher training, cutriculum development, and educational material production in local facilities to help meet the needs of the first two objectives.

- 7.29 Primary Schools in the Atolls. Under the umbrells of the Education Development Centre (KDC) and with support from external agencies, the Ministry of Bandation has initiated the first central Government-sponsored education development program for the atalls. This involves the establishment of community primary achools, the upgrading of makthaba, the establishment of youth and adult education programs, and the development of curriculum, teachertraining, and radio education programs that are relevant to the environment and society of the stalls. Under three parallel programs, some 57 primary schools are to be established in the atolla by 1982, of which 19 government appropered primary schools and two community schools are already in existence. This appears somewhat overmubilious and wasteful, 1/ According to the 1977congue, there are 18 initabited islamis with populationa large enough (over 1,000) to each absorb one community school of standard size. Given the fairly xizable construction and recurrent costs, the Government should consider: (a) phasing the programs so as to serve first the more populous islands/atolls: and (b) designing the primary schools so as to reduce the number of teachers neemed either through larger classes (merging grades) or through was of reducation aids such as radio programs and other materials.
- Secondary and Vocacional Schools. The Government has taken a few iniciatives to increase the autput of a limited range at essential skills meesed in the country. The English-medium secondary achools are being expanded both to permit a larger output of G-level graduates and extend education to the A-level. The two Unglish-medium secondary schools are to be expanded by about 1,700 students, thus tripling the middle and secondary school population. A Science Educacion Center has been establiabed to provide science A-levela; a similar expansion for the arts is also intended. The Vocational Training Conter (VTC) established in 1975, with assistance from UNDP and T.A. provides training in electricity, diesel, and petrol engine repair and maintenance, machinery, and welding. A fifth course on refrigeration is to be added in 1980. Candidates sulected have usually completed fourth or fifth grade achorting; this is sufficient for practical training but limits theoretical instruction. The VTC has all the makings of a successful experiment. It is proposed to expand its present practice of charging for repair work undertaken for the Government and private sector and make it self-Sinancing.
- 7.31 The sizable proposed expansion of accordary and vocations? cdunation should be accompanied by a comprehensive manpower planning exercise. This is assential if there is not to be a serious mismatch between available skills and requirements. Moreover, the Government media to ensure that the current expansion in Kalenbased English-medium post-primary education and training facilities is not once again mainly for the benefit of Male residents and at the expense of children from the stells. Language may become a serious barrier to access to the facilities in Male, perpetrating the privileges of a small English-speaking slite.

<sup>1/</sup> A rough estimate auggesta that the Government's recurrent expenditure would nearly double if all 57 schools come into being.

- Teacher Training and Curriculum Development. Teachers are despetately needed to: (a) replace the 87 foreign nationals in English-medium schools: (b) meet the expansion needs of Male schools; and (c) staff the new stoll community schools. BDC has initiated a two-year part-time Buglish medium local teacher training program to meet the needs of primary school teachers in Male and a one-year Dhivehl-medium full time training compass for training teachers for the stolls; but it has so far failed to attract D-layal graduates who seem to prefer other careers in the private sector or more prestigious but less financially rewarding jobs in the civil service. The fact that those receiving local training are, like their foreign-trained counterparts, required to serve the Government for three to five years acts as a further disincentive. The Government is having more success upgrading the skills of island teachers, but their numbers are limited and their quality is low.
- 7.33 The lack of teaching materials and curriculum in Dhivchi is a serious constraint to the expansion of primary aducation in the stolls. With assistance from UNESCO, EDC is trying to overcome this constraint, and pilot materials and curriculum are being tested at the first two community schools. Production costs are high, and the local printing industry is ill equipped to bendle the volume of work. The Government is extremely anxious to obtain assistance in this area, which it regards as a high priority.
- Need for Planning. The task facing education planners in the Maldives is formidable. The population of normal school-going age (5-14) is expected to increase on rather optimistic (i.e., low) population projections from the present 40,000 to 70,000 by the year 2000. With school enrollment rates for this age group already low, a massive effort would be required to ensure higher enrollment ratios for the much larger population. To ensure universal primary and secondary education would require increasing the number of school and vocational institution places over the next two decades some five-fold over the present level of about 14,000 enrolled in Phiveni-modium and English-medium schools. Given the additional complexity of a widely dispersed population, there is need for much ingenuity and innovation. This calls for a long-term education plan, covering at least the decade of the 1980s, from which medium-term investment priorities can be determined.

#### Health

7.35 Incidence of Diseases. The indicators cited in Table B confirm the extremely poor health conditions prevailing in the Maldives. 1/ The widespread prevalence of waterborne and tropical communicable diseases are a primary factor in the low life expectancy and the high infant mortality and child death rates. Rpidemics of waterborne diseases have taken a heavy tull in recent years: gastro-enteritis (1965), typhoid (1966), districts (1968), and cholera (1978). According to data collected by WHO, the incidence of lepromy (approximately 14 cases/1,000) and tuberculosis (4 cases/1,000) is high and widespread. After an eradication program was launched in 1966, the number of malaria cases declined steadily, falling from 1,105 in 1975 to 266 in 1977, the disease being confined to a few northern stolls. However, there was a 472 increase in the number of cases reported in 1978 due to

<sup>1/</sup> See also Statistical Appendix Table 10.8.

a delayed seasonal apraying of DDF and the fact that chlorination of wells after the cholera outbreak destroyed fresh water fish that were bred to ear mosquito larvae.

- 7.36 Government Programs. The major contributory causes of poor health are insidequate access to safe water and sewerage, the insidequaty of public health services in the atolls, and nutritional anamia arising from dietary deficiencies and low socio-soconomic status. The Government currently devotes about 5-6% of total budgetary expenditures to health and water supply/sanitation programs, or about \$2.0 per tapits. Programs wounted by EN agencies, which are excluded from the Government budget, amount to two to three times the size of Government allocations. The bulk of Government expenditures benefits Hale where the 40-bed Government hospital and six climics are located. The hospital alone accounted for over one-half of total Government health expenditures. Moreover, all the country's nipe dectors, seven fully trained nurses, and 35 muse aids serve in Male hospital. DN agencies have, therefore, rightly focused their programs on the provision of health services and safe water supply to the studie.
- 7.37 <u>Safe Water and Samitation</u>. The elimination of waterborne discusses is the nighest priority. Due to the coral structure of the islands, fresh water resources are in shallow underground aquifers flusting in sea water within the confines of each island's neral bed. This leas is easily contaminated with organic and human whate, as the rainfall recharge percolates down through the excrement deposits in coarse coral sand. The existing water supply, other than a limited number of rainwater collectors, is principally drawn from shallow dugwells, often located in mosque compounds on other restricted places.
- 7.38 Access to gate water supply named by assumed without also dealing with the issue of sanitation. As an interim measure, WMO and UNICER are supporting a program of chlorication of wells, until public water supply and agnitation programs can be monated. Due to the scarcity of fuelwood, boiling of drinking water is not feasible on many jalanda. Will has recommended building rainwater collectors and atotage to serve drinking and cacking meeds for both Mate and the stolls, community latrices in the more populated islands, and a drainage system for Male. UNICEV is proposing to finance the construction costs of 350 samitary latrices and 40 water collectors, and the chlorimation of about 1,500 wells. UNCOV 1/ is also preparing a \$1.0 million "crash program" to install water collectors and build public latrines on all remaining islands not neared by the UNICEF program; it is also proposing to support a apecial program to serve those being settled on the reclained areas of Male, 2/ WHO is also working with the Maldiver Water Supply and Sanitation Department to develop its administrative and executive capacity, through training of angineering staff and the provision of transport facilities and other supplies.

<sup>1/</sup> United Nations Capital Development Lond.
2/ Due to the suil structure, reclaimed areas do not have sufficient access to groundwater. Drainage and waste disposel are also related problems.

- Germunicable Diseases. Special programs have also been mounted to combat communicable diseases. With assistance from WHO, a program to autyly such treat Reprose and tuberculosis and provide BCG and smallpox insuculations was launched in 1975; the eighteen outer stolls have been covered, but continued surveillance, treatment, and vaccination are needed. The malaris foci spraying program has been remarkably successful over the past decade, and despite the recent setback, it may be possible to schieve cradication rather than just control within the next two or three years. These programs represent an effort to make up for past neglect. Once the backlog is taken care of, the special crash programs will be superseded by maintenance and preventive medicine programs.
- Belivery Systems. Given the scarcity of resources, the shortage of trained manpower, and the inadequacy of inter-island transport, the Governe ment has decided to decentralize primary bealth services and has established, with UNICEF assistance, 23 companity stoll health contens. The centers are run by community health workers, the equivalent of harmfood ducture, who are currently receiving training at a newly established Allied Health Training Contor. These contors will be eventually supplemented with family health. workers on more populated islands (one worker for every 300-400 pauple). These community and family health workers will dispense addition, provide first aid and agaist with dimease prevention programs. Cases requiring work then routine medical attennion will be neferred to two new 12-bed regional humpibals that will be established over the next few years and staffed by g googsing pool of doctors, dorses, and sumiliery health workers. approach appears to be sensible and will be an important step in strengthening the presently inadequate facilities for health care in the sholls. However, two major components of a sound health strategy--maternity and childrare and featly planning--are inadequately emphasized. The race of growth of populablue and the very high infant and obild mortelity rates should foode greater appearing to rigge arous. Close spacing of children and the large number of children are important factors in poor rubrition and absceptibility to diseaso. Crowding on tiny islands aggrevates sanitation and environmental problems. As an imidial step, the training of community health workers should be geared to the special health needs of women and children, and family planning services should be provided to tiseae who want them.

# PART C: PROSPECIS AND ISSUES

## VIII, DRVRLOPMENT PRIORITIES IN THE 1980a

# The Challenge

- After centuries of stagnation, the Maldivian economy has experienced both rapid growth and diversification in the 1970s, transforming the country's medium-term development potential. Coincidentally, a new Government has come to power that is committed to planned economic development and to reversing Male's traditional neglect of the atolts. Structural changes in the aconomy and the new rhetoric have arounds companies expectations among these island proples. Meeting those expectations will not be easy. While there is a substantial potential for sustained economic growth, the country meeds to develop the tools to exploit it. The political, economic, and institutional infrastructure inherited by the new Covernment has been geared to maintaining the status quo, racber than to initiating and bringing about change. Recent developments, undumbacely, have shaken the system out of its quiescence sol brought a new vitality and a greater awareness of what it is possible to achieve; but the need for new inscitutions and skills to launch a major development initiative is still in the process of being recognized, and the transition to a government machinery geared to such an initiative is likely to prove both long and painful. The challenge for the country's leadership lies in ensuring that expectations do not run too far ahead of the Government's ability to deliver results.
- 8.02 The National Planning Agency has been entrusted with the task of preparing the country's first development program. While it has yet to articulate specific development objectives, this is the easiest part of its task. The following medium-term objectives appear to suggest themselves:
  - (a) a rate of commonic growth sufficient to ensure so adequate increase in real per capita incomes and consumption;
  - (b) a more equitable distribution of the benefits of development as between Male and the atolls;
  - (c) a determined reffort to slow down the migration into Male through the creation of alternative pulse of development; and
  - (4) a program to reduce the current rapid population growth rate which will, in the long run, grode the gains from economic growth.

#### Economic Growth - Some Issues

6.03 An examination of sectoral growth possibilities suggests that the economy is poised for continued rapid growth provided that policy and

infrastructure constraints are removed. Fish landings could reach 50,000 MT by 1985, or nearly double the 1978 level, with an increase in the number of mechanized pole and line vessels from 700 to 1,700 and a 60% improvement in the average annual catch per mechanized vessel. Fourist arrivals could rise four by 1985 to over 100,000, and gross earnings from Lourism could expand by about 21% per enough during this period, rising to \$22 million at 1979 prices by 1985. 1/ Shipping income should recover from the recent acthors. This is an area of groater uncertainty; but we believe it should be possible by 1985 for MSL to remit at least \$3 million a year at 1979 prices. With the expected expansion of these leading sectors, there is a potential fer stimulating growth in agriculture, small-scale industry and handicrafts granted to measing the needs of the leading sectors (parss 6.22-6.27). Coconst production is also likely to be responsive to special programs designed to control rodents and improve yields.

8.04 Taking all these fectors into account, a GDP growth rate of 6.0-8.0% in the 1980-85 period appears Scanible. This represents a deceleration over the 12.5% annual growth resorded in 1974-78, which reflected a low starting base. The realization of this potential will be somewhat more difficult than it was in the past. As seen in Part B, all three leading sectors are correctly experiencing difficulties which arise out of developments that are both within end outside the control of the Government. Some of these difficulties can be resolved through specific policy change; others involve more complex and longer-term cointions. The increasing complexity of the economy will require both suphistication in management and an improved capacity to formulate and implement policies. Adequate economic growth will be contingent on the following:

- (a) The contained maintenance of an open economy is an essential precondition. An important explanation for the impressive recent performance of the concemy has been the absence of restrictions on trade and payments. The system has worked well, and with a floating exchange rate policy and a pubmertaily healthy mediates has achange of payments outlook (para 8.10), the Government should have no difficulty in maintaining this system.
- (b) The Government needs to organize examine the impact on the economy in general, and on Government budgetary operations, of the price distortions arising from the sec of an official accounting rate of exchange by the Covernment sala reference point in astablishing prices paid to fishermen for expected fresh fish and the local prices of imported food. The analysis in parsa 3.23 and 4.15 above would suggest several advantages from the elimination of the official accounting mate of exchange and related operate adjustments in demestic prices of fish exports and food imports. It would eliminate the present severe price disincentives facing the fishing industry. It would improve incombine and boost living standards in the atolls. This would also easy the precauses on Male

This assumes that the cost of air travel from Wostern Buropo to the Muldives does not isorgase dramatically.

from immigrants in search of better economic opportunities, By eliminating the implicit subside on imported foodgrains. it would, albeit modestly, enhance food security by encourage ing import substitution in this gree. Most important, it would and the present discrimination against the craditional fishing and agricultural sectors and eliminate the only significant price distortion in the economy. The only major disadvantage of the move is the likely adverse fundet on dumestic inflation of an increase in imported rice and flour prices. This could be moderated through gradual increases in the prices of these commodities. To the extent that domestic cereal production responds positively to the stimulus of higher prices, the inflationary consequences will be partially mitigated. The budgetery consequences need to be studied in greater detail. But a cursory analysis suggests that the hudgetery deficit may be reduced. STO's profits will be influenced by the extent to which the prices paid to fishermed for fish exports and the price of food imports is adjusted upwards. The sugee equivalent of dollar-denominated revenues and commodity aid receipts will increase. So will the duty base for import and export duties, which may reduire a corresponding lossing of dubles. Expenditures denominated is dellars will rise, but will be more than offset by the aforementioned gains:

- (c) STO's pricing politics are only one eapect of the issue of price intentives. Recent developments have cost a shadow on intentive levels in the productive sectors, and corrective action is needed in at least two access:
  - In the <u>fisherics</u> sector, this inadequary srises from the combined impact of the implicit tax on fresh fish exports arising from the divergence between prices received for fish exported and the prices paid to fishermen and of the recent sharp increase in fuel costs (para 4.15). A reduction in the effective rate of taxation on fish exports, as suggested above, would provide immediate and organity needed relief. Moreover, average unit value realizations can be boosted by diversifying export markets and products. Collection of micro-economic data on a systematic hasis would emphit the Guvernment to monitor the adequacy of incombines and to introduce agreeative measures prouptly.
  - Although producer incentives in field crop agriculture will beautiful from a reduction of the implicit associates on food imports, the scaror as a whole will need a number of policy beasares designed to provide security of learne, and improved marketing, transport and storage feeilities. For selected cash crops lacing a strong demand from the tourism industry, the Government may wish to study the merits of establishing guaranteed producement prices together with the relared producement machinery and cold storage facilities.

- (6) The growing importance of the private scator in the productive sectors at the economy and the mood to attract foreign private invasionant suggests that the Edwardment cannot post-pose much longer the establishment of a legal framework that eagently spotts out the value of the game. The optablishment of a Maldives Monetary Authority is an important first atep and must be followed up by banking, company and property iswa and foreign investment legislation that provides clearer guarantees to boreign investors (para 3.27). A shable fraget-ment climate and an assurance of a policy environment that permits adequate returns and a clear sustement of rights and responsibilities is a precondition to attracting furelige layersment in tisherica, normism, and other sectors, and ensuring stability in relations with foreign companies (paras 4.21-4.22).
- (a) The Government's role in the provision of physical, finalcial, and social infrastructure is important in pealizing the growth projected in paca 8.4. The linkage: between such investments and growth prespects are fairly chuiges in some areas. For instance, the expansion and strongthening of the Mulule runway on schedule to permit larger eigeraft to use the airport is essential to the realization of projected Contism artivals. The improvement of intermisland transport facilities should prove a boon to eash crop agriculture. Similarly, the provision of oredit is crucial to the success of the fishing book mechanization program. But there are less obvious libbages between infrastructure investments and sounomic growth. Investments in adoption and needed to ensure administratings manyower for the productive sectors. Preventive health care is not only needed to ensure the quality of the labor force, but is also remain! to the sumvival of the tourist industry, 1/2

# Redistribution

8.05 The lack of a development policy for the stolls has been documented throughout the report. Redressing regional and lucome inequalities will require a multipronged approach. The most direct approach is to boost about incomes. Measures to improve incentives for fishermen and farmers will have as immediate impact on the about occurring. A second approach is through the expenditure side. Government expenditures, which correctly mainly honeigh Hale, will need to be increasingly redirected towards the stells. Health and water supply are clearly a high priority. The Sovernment already has a number of sensible health programs which can be implemented with appropriate foreign tipsocial and technical satistance. Education and health programs will greatly becefit from the reduced isolation of the adollo inttowing implementation of the proposed intermistand transport project (para 7...2). These separate approaches will need to be supplemented by specific programs simple approaches will need to be supplemented by specific programs aimsd at

<sup>1/</sup> Tourist arrivals could be adversely affected by a repetition of the 1975 choless scare.

an integrated development of scheduled afulls. Such programs should cover all sectors and view stoll development in the widest context, embracing agatish planning and environmental issues, and planning for forward and backword linkages between various activities.

## New Growth Centers

7.

If present trands continue, the Maldives' population will double over the next 25 years (Table W). The implications of this demographic explosion for the capital, Male, need to be derefully assessed. Owns the past five years, Male's population has risen from about 15,000 to scortly 30,000, absorbing a large part of the additions to the about's tabor force. If this rate of migration continues, Male's population by 1985 could reach 50,000. Even with the enormously expensive land tenlamation program new underway, Male could not possibly absorb such a massive inflow without a severe deterioration in its already inadequate services and without a share worsesing in the present high unemployment rates among the young. The Government will need to move quickly if it wishes to evoid the social consequences of this migration. Legal restrictions have been used in the past but may be tuled out in the more liberal political environment of 1980. The steps outliced in para 8.05 to reverse the neglect of the stells should have a significant impact on the make of inflow by making life in the atolls more bearable. Nonetheless, the bright lighte of the city will continue to draw away the young wishing to escape the claustrophobic isolation of their island existence. There is, therefore, a strong case for providing alternatives to Male by creating one or two new growth centers cum urban settlements. Seens ato'l in the South is an obvious candidate. The physical infrastructure at the former air base at Geo (Annex C) could provide the core of out such center besed on tourism and export processing. The proposals now being considered for the development of Gam (para 5.16) must be viewed in this context. Given the infrastructure already available on Can, the results of such an initiative could be replied in the medium terms. A second settlement in the North, based on tourism and the agricultural potential of the area, could be considered in the leager can. Frequent air and see transport links between these conters and Male will need to be established, suc this itself will greatly facilitate the settlement of these century, singe, in the absence of such links, bureaucrata and private senter managers would be reluctant to break their ties with Mala.

# Population Palicy

8.07 Urbanization, while largely urasmidable, is a costly process. The Maldives would do well to attack what lies as the root of this rapid urbanization: a population that is growing much ten table. Birth cales are expected to climb at current fentility rates  $\underline{1}/$  to a high 47 per 1,000 by the late 1980s, due mainly to an increase in the number of women in the reproductive age group. If death rates remain at the high 18 per 1,000, the population growth rate in the late 1980s will be 2.9% per annum. Nowever, it is highly likely that the death rate will respond to improvements in health and water supply. If the death rate falls modestly to say 15, the

<sup>1/ 6.39</sup> children per woman, if she were to live to the end of her child-bearing years and bear children at each age in accordance with the 1977 centaus age-specific fertility rate.

average for low income developing countries, the population would be growing of 3.2% per annum. The doubling of the population by 2000 AD, a conservative projection, will greatly increase the cost of providing education (para 7.34) and health services and erade the resources needed for numbering growth. The chaence of a family planning program is a major lacking in the Government's health programs (para 7.40). Apart from any considerations of population size, the ciese spacing of children, the large number of children, and evercrowding on islands are important factors in the pour state of health in the stells. The Government needs to step up maternity and child health care programs; moreover, family planning services should be finally available to married couples who want these.

Table W: ROPULATION PROJECTIONS, 1977-2002

	1977	<u> 1982</u>	<u>1987</u>	1992	1997	2692
Population (1000n) Rales Females	742.6 75.2 67.6	061.0 84.6 77.2	184.1 94.8 89.2		244.9 J24.5 120.4	281.1 142.4 138.7
	1977-82	1982-87	1987-93	<u> 1992-9</u>	7 199	7-2002
3lett Bats Death Racc Population Judieses	41.3 17.3 24.0	44.6 17.9 26.8	46.3 19.4 28.3	4 18.	Š	45.8 18,2 27,6

Source: Bank scaff projections based on 1977 fertility and life expectancy rates.

# Retablishing Priorities

8.08 The major macro-economic objectives outlined above call for a sizable leverthank might. Sustained economic growth is contingent on major new investments in the productive aperors. Infrastructura for the figheries sector will need shout \$15-25 million at 1979 prices between new and 1985; cechanization of 1,000 house will cost a forther \$6 million; contiam will need 87-10 million; MSE's modernization program will continue to absorb a large proportion of disposable profits. The physical infrastructure needs of Male for identified programs, new and cogning, including the reclamation; program and Hutule simport, are a massive \$36 million. The sects of the stell programs are less Well defined, but will also require sizable investments.

5.05 The Lotal cost of identified magning and proposed public sector scalinities (Annex 2) alone amount to over \$80 million at constant 1979 prices. If dishorements on these projects were spread evenly over the 1980-B5 period, they would equal to 100 million a year at constant prices, two and one half the current size of government budgetary expenditures and about half the current SD2. This would clearly be too large an investment program, and would cause excessive presentes on the halance of payments, aggravate inflation and cause movers shortages of skilled labor and construction materials. The phasing of public investment activities, therefore, needs to be reviewed in the context of absorptive capacity constraints, and available demestic and

external resources. The Covernment needs to establish a clear set of priorities for public investment. This, in turn, would involve defining the respective soles of the public and private sectors. The Government's involvement in the productive sectors needs to be consistent with its implementation capability. Thus, while cortain key investments by government in the productive sectors would be necessary, these must be weighed equinst the substantial infrastructure and other needs of the economy, particularly in the tollowing areas: (a) health and circultion and related intrastructure in the atolls; (b) integrated atoll development programs in selected atolls; (c) a Male urban renewal plac; and (d) the establishment of new growth centers. Even within these priority areas, individual projects should be phased on the basis of organcy of need. Thus, the condition of Male's roads appears a tar lower priority than water supply and sanitation; the growth center in Second should be seen as an alternative to the costly lact reclamation program in Male.

#### The Role of the NPA

The National Planning Agency's First task will be to help determine those investment priorities and to integrate specific investment activities into a viable medium-term development program. This is likely to prove a complex reak for an Agency that is new and understaffed. To overcome this difficulty the Government has sought and obtained fearlical assistance in initiating the planning process from UNDP and ABB. This will enable the Coveragent to establish a planning nucleus. Formal planning will require considerable preparatory work at the macrosconomic and sectoral levals. Some of the issues that need to be explored and clarified have been taucaed on above; they will need to be analyzed in greater depth than it has been possible to do in this introductory report. Any egende for the necessary preparatory work is mechanishy long. At the macre-level, work is needed on dumestic and external financial resources, manpower, administration, and the legal infrastructure. At the sectoral level, atudies are needed on the following sectors: figheries, egriculture and agre-based industry, thurism end civil eviction, shipping, cagastion and health. In addition, multi-sactur studics are needed for an integrated atoll development program, a Mair Capital Region program, and the proposed Growth Centers. It would alkarly not be possible for all these studies to be undertaken all at once. The MPA's work program, thereforc, needs to be clearly defined and realistically phased in line with availshility of staff and data resources. The work program could be approached in the following manage:

Domestic Resource Mobilization: At the ascro-level, the first priority must be given to ensuring a higher public savings effort than has been realized in recent years. During 1979, the Government appointed a number of measures designed to attain this objective. Taxes on Lourism and the simport departure tax, could be yielding over \$1 million by 1980 provided fourist arrivals grow as projected. Import duty revenues will expand with the widering of the tax base and substantial bourism related imports. Other measures are also under consideration, such as a general sales tax. The Government could usefully draw on the services of a fiscal expert to assist in the planning of these budgetary reforms and in related improvements or fiscal data collection and

analysis. A study of domestic resources should focus on the following ereas:
(a) the impact of current explicit and implicit taxes on incentives in the productive sectors: (b) the impact on the bedget of the sholition of the official eccounting rate and related price adjustments; (c) the potential for further direct and indirect taxation and for adjustments in the taxiff structure; (d) the potential for domestic market hoprowings, and the creation of new outlets for smallsuvers; pout office savings accounts, life insurance, provident funcs, etc; (e) the potential for improved returns from public enterprises, in particular, MSL (para 7.08), the Telecommunications Department and the philatelic services of the post office (para 5.11); and (f) the fixed implications of the need to substantially increase wages, salaries and other benefits in the public sector, where employments used to be brought closer to private sector levels.

External respectes, in our view, should not prove a stricts constraint in the medium term. If the current difficulties facing the fishing industry are adequately addressed and find exports vise as anticipated, merchandise exports should be sufficient to cover 40% of the projected value of 1985 merchandise imports. The deficit, though sixable, would be more than offset by projected tourish earnings and repatriation of profits by MSL. An effort is meaded to develop adequate balance of payments statistics and to project available, external resources over the plan period.

Manpower and Administration: Given the extreme abortages of trained personnel, manpower and administrative resources will prove to be the severest constraint to increasing investment levels. A careful analysis of skilled manpower requirements and availability over the 1980-85 period is essential to the success of the program. This meat also be accompanied by a thorough review of the administrative system with a view to improving coordination and ensuring a more deliberate forms on development. These stelles will prove the most complex since there are few instant or short run adjutions. To the extent that they clearly identify training and technical assistance teeds, they will greatly facilitate the task of relieving these bottlenecks. The manpower study can be integrated with the education pixpining exercise suggested below. A dialogue on administrative reforms had already begun with ESCAP (para 3.25), and this modes to be resumed and followed through:

Legislative Pranework: The lack of a legislative transwork (pars 3.27) is a major lacuna that must be ungently remedian. The NPA needs to take the lead in deviaing a legislative program covering foreign investment, company, banking, mortgage, contract, and leasehold lews, proparing a timetable for legislation and identifying and recoming technical assistance for such a program. It may be promible to draw on other Reglin countries' experiences in modernizing contemic laws.

Sector Studios: The purpose of these sector studies would be no establish workformberh objectives for the key sectors and gragmann listed above, identify required investments and their phasing, and determine manpower and institutional modes. In many sectors, such as fisheries, a great deal of work has already been done and only requires updating and identification of specific policy actions and investment activities. Because of its compactity, the Male

Capital Region study may send to be arceled separately from the ADB exercise, and the Government might emisider inviting assistance from other sources. Similarly, the integrated sholl development program may also lead itself to separate treatment as an extension of the present ESCAF project proparation activity (para 6.19). In the social services, we would recommend that the Government propare ten year health end education programs with assistance from WHO and UNESCO. (The letter would have a strong manpower planning component.) Both programs would craw on the considerable experience that TV agencies have already accountanced in the Maldives. In this contest, the ADB sasisfies study up project identification 1/ provides a iseful beginning.

- These separate making and sectoral policy expresses will appet to be integrated idlo a three-to-five year multing public investment program. How sood this dan be durw will depend partly on the timely availability of external technical assistance. This is, however, one area where it is maither designile. nor possible for technical assistance to empirely substitute fre Government's owe bowework. From the very beginning, the main brunt of responsibility for directing and guiding the work west fall on the Coveragent. While the NPA will play a central role, the line widistries must also been a fair share of the burden. The initiative and guidance for the sector work must some from the concerned line ministry. This, in turn, will require developing policy planning, project preparation, and project implementation capabilities in the line ministries and further atrengthening the NPA. The Government should use the next two years during which these various studies are underway to built up these capabilities, not only by fully involving its own difficials in the macroand sectoral exercises but also by strenging for training of staristicians and economists and by opposing the skills of its existing stabb.
- 8.12 This is a formicable work program and one that will fully test the strength of the Government's commitment to planning. So long as the objective is to propert a fresible and practical public investment program consistent with implementation capabilities and constraints, there is a good chance that planning will succeed in the Maldivea. While the problems of the Maldives' sourcemy appear large, they are by no means incommountable. As noted above, the country's development potential is good; the country is small enough for many of the problems to be addressed quickly and relative, y easily, given adequate resources. With the right policies and programs end appropriate external assistance, the Government should not have much difficulty in teeting the growing aspirations of this quite unique maxim of islands.

<sup>2/</sup> Berenschut-Moret-Bosseom, Project Identification, Programming and Planning in Keldives. Deaft First Report. Study Cinemaed by the Asian Development Bank under a Technical Assistance Grant to the Coverament of Meldives. September 1980.

#### TX. ROLE OF EXTERNAL ASSISTANCE

9.01 The success of the Maldives' first experiment with planuad economic development is largely contingent on a substantial improvement in both the volume and quality of external assistance. This will not be easy in achieve for two reasons. First, although the Kaldives has emerged not of its selfimposed isolation in recent years, formal economic ties with donor nations are relatively underdeveloped. Of the 42 countries with which the Maldives has diplomatic relations 1f only three have local representatives in Male, 2fwhile, for reasons of cost, the Maldives maintains only two embassies oversens, its Permanent Mission at the United Nations in New York and a mission in Colombo, Sri Lanka. The Government has, undoubtedly, been very successful in attracting bilateral aid, particularly from Moslim oil-producing states. However, this essistance has tended to take the form of responses to ad hucrequests for assistance rather than an ongoing ald program based on the. donor's careful assessment of the recipient's needs. A desire to maintain atrict neutrality in its foreign aid policy and to avoid a dependency relation has, is the post, resulted in a strong preference for multilatoral assistance. The United Nations Development Programme has been active in the Maldives since 1966, and has provided an umbrella for other UN ageories supplying commodity and technical assistance on a grant basis. 3/ Only in 1978 did the Maldives formally juin the International Muretary Fund, the World Hank, and the Asian Development Sank, and in 1979, it made its first use of those multilateral finencial resources with a Fisheries Credit from the International Development Association (IPA), 4/ While these multilateral lending institutions will play an important part in the future, the Maldives will need to supplement their efforts by attengthening bilateral aconomic relations with integrated potentiel donors. Second, as noted in the previous chapter, the country's corrent absorptive capacity is limited by shortages of trained manpower, weaknesses in the Government machinery to handle a larger volume of external assistance and inadequate project preparation and implementation capabilities. Moreover, the interently small size of typical projects imposes an additional cost on dunor aid programs. These constraints will require both patience and ingenuity on the part of docors to devise programs of external assistance that match the appeals? needs and direumstances of the Maldives. With assistance from the Government and IMMP, donors need to inform each other of their separate activities so as to avoid meedless duplication. Both financial and technical assistance are needed, the former by way of support for various project antivities discussed below.

#### Project Aid.

9.02 The sectoral reviews in Part B revealed a fairly long shopping list of worthwhile activities requiring financial support from donors. In the short run, the Government will need assistance in establishing priorities and identifying specific investment activities that require immediate support.

<sup>1/</sup> As of and December 1979.

<sup>2/</sup> India, Libya, and Pakistan.

<sup>3/</sup> Statistical Appendix Table 3.9.

 $<sup>\</sup>overline{4}/$  The S3.2 million Credit was approved by 4DA in May 1979.

Annex D lists ongoing and proposed project activities. Many require Earther work and analysis before they can develop into projects worthy of donor support. Based on the analysis in Part B, financial assistance will be needed in the following areas:

- (a) Productive Sectors. In the fisheries sector, there are large. intrastructure needs for strengthening the country's onshore and offshore collection capacity for fresh tish (para 4.28). for improving the fuel distribution system (pers 4.20), and for processing of fish (pare 4.27). There is also a large onguing mechanization program. Some of these needs will and should be not by attracting foreign investment. The Kuwait Fund and EDA arm also likely to be active in the area, but there may well be from for other donors. A tourism development finance facility (para 5.21) is also a candidate for external assistance in the medium term. Its functions could be diversified to provide support to activities related to tourism, such as production of vegetables, fruit, eggs, poultry, and hamilineafts. In the agriculture sector, donor support is deeded for integrated stoll development programs (paga 6.19) and a coconut rehabilitation program (pagas) 6.15-6.16). Those will be relatively small projects, but their benefits will be fax reaching.
- (b) Intrastructure. As shown in Chapter VII, the country's infraetrocture needs are large. One key area, intermisiand transpart and communications, is being addressed by an ADE project. proparation activity (para 7.12). This is expected to yield a project suitable for donor finance. The Male Capital Region also needs substantial investments, and external aupport is required to plan the city's essential services over the next 20 years and to begin to address some of the more organi needs, particularly those related to water supply and samitation (peras 7.)6-7.22). Similarly, the idea of establishing new growth centers (para 8.06) requires further study prior to the preparation of a project that donors may support. The areas of the social rectors are currently being addressed by IN agencies. The financial resources are adequate for the moment, but additional support will be needed as the Government begins to raise its sights in chis area.

#### Technical Assistance

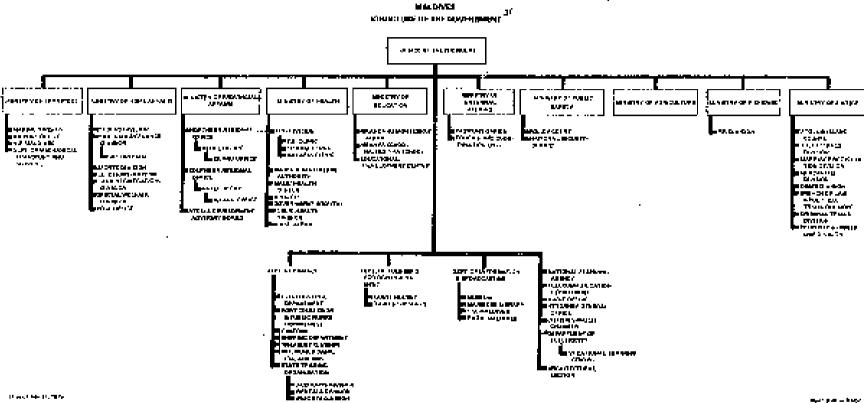
9.03 A well-designed technical assistance program is crucial to the success of the Government's development program. The provision of experts will require exceful preparatory work. The Government is short of institutional support, avaiged counterpart staff, and office space. It would be very easy to everborden it with foreign experts who could quickly outdumber the handful of senior civil servants and get in each other's way. This implies much heavier reliance on short-term experts (8-12 weeks) and the careful induction of a few, key specialists on a longer-term basis, hand-picked for their capacity both to work in a quiet, low-key mancer and to

train counterparts to teplace them. Planning, project preparation and implementation, the establishment of a legislative framework, and administrative recreasization are some of the steas where such expects may be used.

9.04 The primary thrust of technical assistance progress, however, most lie in the training of Maldivians. An essential first step is in identify training needs and to make these widely known to donors. The Maldives can rely much more bravily than it prosently does on bilateral training programs in other developing countries where conditions are similar to the Maldives and where training costs are low. This would also reduce the risk of a brain train.

#### Terms of Aid and Aid Coordination

- 9.05 Given the country's severe resource constraints and its level of development, denote should attempt to provide aid on grant or mean grant terms. This is essential if debt service ratios are not to rise sharply with a sizable increase in commitments. Donors should also be prepared to finance a substantial portion of total project costs.
- 9.06 The recent establishment of a Foreign Aid Coordination Unit (PACO) in the Ministry of Foreign Affairs is an effort to discourage individual line ministries from desling directly with denor agencies and to ensure coordination in the Government's approach to external assistance. This is a welcome development, so the Unit may need attempted to ensure that it can cope with the responsibilities entrusted to it. The Unit's first priority must be to develop a inistorical data series on aid countimonts and disbursements by source and type of aid and to establish a reporting procedure for the line ministries. This is not only to ensure that it remains abreast of the second aid situation, but also to provide information on activities of all describe to prevent needless implication of offert. PACO's activities will need to be closely integrated with MPA's to ensure sequete donor support buth for the blancing exemples and for individual projects identified by the exemples.



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#### MALDIVIAN STATISTICS

#### Introduction

Under the suspices of the UN Economic Commission for Asia and the Far Zast (ECAPE), three Advisory Services Reports were prepered on the development of statistical services in the Maldives following visits to the Maldives by Mr. S. G. Tiwari, the KCASE regional advisor on maticual accounts, in October-Movember 1977, in June 1974, and fin August 1976. The reports identified major gaps in the statistical data collection system. They also made recommendations for the reorganization of government financial statistics and for setting up an institutional framework withis which existing and to-beroreated data tlows would be collected, analyzed, and processed as part of a necessary economic. evaluation and development planning effort. Since 1976, major improvements have been made in the collection of statistics. The work important step forward took the form of a comprehensive census, held at the end of 1977. But there still remain areas of economic activity on which no statistical information is available, or where data collection is irregular. Nor is there as yet an effective central statistical office for the coordination of data collection, and the interpretation of evailable figures.

#### Outline of Basic Statistical Requirements

- 2. The three UN EGAPE Advisory Services reports prepared by Mr. S. G. Tiwari, on which this summary is largely based, outline the main areas for improvement of statistical services in the Maldives. The 1972 report suggested that the statistical framework should be built up to provide basic data on the following subjects. I/
  - (a) <u>Ropulation and Margower</u>. The 1977 densus has endraously improved the population data base. However, the age-sex-specific data appear to be unsatisfactory. The census provides a static picture of employment and unsapleyment levels in 1977. This now needs to be supplemented through regular surveys.
  - (b) Agriculture, Porcecty, and Finking. Although fishing state fishing have developed rapidly and are now fairly comprehensive, detailed data on operating costs, local marketing and prices are needed. Request at agricultural production, including output from household plots, cultivated areas, yields, marketing patterns, and prices are unsatisfactory or non-existent.

<sup>1/</sup> Based on Report on Nature and Status of Current Stabilities and Type of Institutional Machinery Necessary for Davelopment of Statistics in the Republic of Maidless (Occober 25-November 23, 1972).

- (c) Mining, Manufacturing, Construction, and Public Utilities (electricity and water supply). Meither manufacturing nor construction activities are statistically monitored except for employment figures provided by the census. Handicrafts output used to be recorded by island chiefs, but these figures are no longer available. There are no time series for the number and type of private buildings constructed, although the Ceosus provides date on the existing volume and standard of housing. Ancillary data, relating to cural quarrying and lime production, for example, are also lacking. Information on the value of public sector construction expenditure is only avaitable by "cutting" it out of individual ministries' or departments' budgets. The informal nature of the water supply system has prevented a statistical evaluation of the service. Comprehensive data are available on generation and walk of electricity, the consumption and the provision of electricity services in Male, but no data are collected for electricity generated in other islands and in Courist resorts.
- (d) Wholesale and Metail Trade; Mestaurants and Hotels. Apart from import and export data, no information is available on local wholesale and retail sales and stocks, or the real value of entrepot trade. Local restaurant trade also goes unrecorded except for densus employment data. The tourist resorts, however, provided figures for 1975/79 from which value-added totals could be estimated although the industry's own employment figures were more than double those given by the census.
- (e) Transport, Storage, and Communications. Certain operational statistics are collected through the registration of boats, cycles and road vahicles; there are Census employment data for water cransport, but there is no information or volume of traffic or on value added except for telecommunications services.
- (1) Education, Health and Social, and Other Community Services.
  Information is collected by the miniatries concerned and by through aid agencies. There is a need for greater coordination and better data relating to the atolls.
- External Trade and Jourism. External trade statistics have improved steadily and are new available in broad SITC catagories, divided between public sector (STD) and private trade. More detailed commodity breakdowns are needed as well as better data or entrepot trade and on the country of nrigin of imports. Due to particular efforts made by DTVI and terrist resorts on behalf of the Mission, detailed information on resort operations in 1978/79 was produced. DTVI should try to keep up the statistical offert and improve data on tourist arrivals and average length of stay-

- (h) Money and Banking, Finance, and Balance of Paymenta. In preparation for the setting up of a Monetary Authority data are now collected regularly relating to currency issued and the commercial banks' balance sheats. Halance of payments stataistics have to be compiled from various sources including budget figures as there is no central monitoring of external payments yet. Data relating to past aid inflows is patchy and not centrally monitored. Foreign exchange holdings other than those with STO and the banks are unrecorded. The commercial banks are also not required to report systematically on transactions related to the balance of payments.
  - (i) Government. Existing budget data are incomplete in that they exclude (a) special budget votes introduced in the course of the sinancial year, and (b) SIO revenues and expenditures. Economic and functional classifications of expenditure of Government (both Central Government and in the stalls) are also needed. As all the data are available in Government documents, this classification should be attempted on a priority basis. The exercise was attempted for the 1972 budget 1/, but has not been repeated.
  - (j) Personal Income, Expenditure, and Housing. No date exist in this field. They would need to be entheated through sample surveys with the help of a trained field agency.
  - (k) Prices. The Department of Finance currently collects prices for a number of commodities sold un the market in Male. Until a sample survey reveals the attracture of personal expenditure in Male and the atolla, the significance of this exercise is limited. Even so, it could provide a useful indicator of price treads if the exercise were made more systematic as to the exact quality and volume of the goods covered and the timing of each enquiry.
  - (1) Domestic Product, Investment, and Savings; and
  - (m) Distribution of Income, Consumption, and Wealth are not covered by available statistical data. The IBMD mission made certain very tentative estimates, but the compilation of national accounts data essential for future economic and sucial policy formation can only be done atter adequate sectoral, sample survey, wage, and price data collection machanisms have been put in place.

<sup>1/</sup> I'W ECAFE Report on Analysis of Government Transactions, Corrent Flow of Statistics and Institutions! Arrangements for Economic and Social Development in the Republic of Maidives (June 12 to 29, 1974) by S.G. Tiwari.

- As a first step, the UN ECAPE expert's report recommended setting up a Department of Statistics in the Ministry of Finance 1/ and preparing a Statistics will for approval by the Majlis. This recommendation has been followed up in the form of a proposed UNDP project 2/ to establish a Department of Statistics in the newly created NPA. The project commented late in 1979 and will provide technical assistance through secondment of statistical experts to the NPA and training facilities for Maldivian scatistical staff. Priority is to be given to the development of balance of payments and tourism statistics and to the physical compilation of a statistical abstract for 1980. The new MMA should also generate adequate data on money and hanking, and integer exchange transactions.
- 4. The following areas appear to be of kigh priority:
  - (a) the Government's own statistics relating to budget revenues and expenditures and the accounts of Government agencies and enterprises classified according to economic and to functional purposes;
  - (b) Antailed production and marketing statistics for the primary sectors, agriculture and fishing, with particular reference to the area, production and distribution of household plots, and the fishing industry's local (as opposed to export) operations; end
  - (c) halance of payments statistics, with particular emphasis on invisibles and capital account transactions; data on aid inflows needs to be systematically collected to facilitate aid coordination and enable forward planning of aid requirements.

<sup>1/</sup> UN MCAPE Report on Bublic Enterprise Statistics and Preliminary Institutional Arrangements for the Development of Statistics in the Republic of Maldives (August 7 to 26, 1976), by S.C. Tiwari.

<sup>2/</sup> UMDP Project Number HDV/78/001/A/01/01.

#### INFRASTRUCTURE OF CAN ISLAND

#### Background

The Government of the Maldives is seeking foreign investment war-Elelpation in the development of tourism and light industries on Can and other neighboring islands. Can is the southernmost of over a thousand (signds that make up the Keldivian erchipelago. It was used as a Stitish gir base during World War II and again between the mid-1950s and 1976. At its height of activity, the base employed 1,200 workers, many of them skilled or semiskilled, having been trained on the base. The base was closed in  $\pm 976$ , and all but 60maintonance workers laft the island where there was on alternative employment. They settled in neighboring islands or atolls, or moved to the capital, Male, 280 miles worth. Gam could play a key rold in a new regional devolupment plan for the southern stalls. The Government also subscribes to the Indian Ocean Zune of Peace policy and despite approaches from verious governments, does not want the island receveloped in a way that might have military implications. The Government paid for advertigements in various regional publications accking to draw inventors, attention to the island's potential. During 1978/79, 12 investor groups showed enough incorest to make the trip to the Maldives and the two-hour flight from Male to Can. Only two serious proposale have come out of this. On the Haldivian side, Can development is being handled jointly. by the Gas Island Improvement Committee (with representatives from several ministries) and DTZI. The final way works with the President, in consultation also with the management of MSI, in Singspore, which initiated the adversising effort,

#### Facilities Available

- The <u>stratrip</u> which is 8,700 ft. Tung and 150 ft. wide is in good condition. It could be extended 5,000 ft. by filling in a shallow water erea inside the reaf. The runway attrappth is registered at No. 70 on the intervaluant scale and can handle any weight of modern stratage. The aircraft servicing area is 1,500 ft. long and 405 ft. wide. The sintield ground lighting system is that of a Category A.2 RAF station. There are no hangars.
- 3. Purb facilities consist of two jetties. The concrete off-flushing jotty is 408 ft. long, 43 ft. wide and can bacile chips drawing 15 ft. The ateel-built fuel jetty was most for off-loading tankers. It has a reinforced concrete platform at the jetty scad which is 392 ft. long and 8 ft. wide.
- A. The <u>bulk feel storage</u> area consists of six large lanks and six slop tanks capable of storing over two million gailons of products. The tanks have been maintained, and the distribution system is in working order as are the generators in the powerhouse and conling compressions.

- 5. The <u>roads</u> are either paved tarmed or compacted coral. There are four miles of main tarmed roads around the technical and domestic areas of the base and six miles of infrequently used secondary coral roads situated mainly on the south side of the island.
- The main powerhouse has six Crossley diesel two-stroke engines Type MSNS, each having a normal full load rating of 520 KW. These are down-rated at Gan to 450 KW (220 V/250 V). These generators are ready for one when required. A good stock of spare parts is held in the powerhouse. Power is generated at 3,300 Volts and fed into a ring main with 11 transformer distribution cubicles to step down the voltage.
- 7. The <u>fresh water supply</u> system consists of Lon high-love] tanks with total capacity of 80,000 gallons. Water to these tanks is pumped from two walls situated about 600 yards from the tanks. The wells and pump houses are located in the center of a well-cleared area and have been properly maintained.
- 8. Sewage is piped from groups of buildings to sewage ejector stations and discharged into a common main which is taken over the reas on the south side of the island. The untreated sewage is discharged into the open sea, some 2,500 ft. from the above line.
- 9. The 330 buildings on the island are typical of an sir base: 76 barrack holdings, officers' quarters, VIP quarters, a guest house, and staff workers' quarters, in all capable of accommodating over 1,000 people. In addition there are eight messes equipped with hotplates, boiling pans, Fish tryers, water heaters, ovens, coffee machines, potato-peoling machines, and waste food disposal machines, and three cold stores (15 separate rooms) fitted with individual compressors and cooling plants in working order. Other buildings include from club houses (two social, a golf and sailing club, a)1 with bars), a church and mosque, a 200-seat cinema, an 80-bed hospital, bakery, dairy, and machine, weiding, and carpentry abops (the latter complete with all equipment).
- 10. Sports facilities evailable include a gymnasium, three termis courts, one 18-hole golf course, a aquash court and a see-water assimming pool. The tricket, hockey, rugby and football pitches, and the golf course are thickly overgrown as there are no grass-cutting machines left on the island. Scuba diving along the reef is superb and so is the sailing; close-by islands offer lovely beaches; those on Gan Itself are very small. The island has considerable putential by itself and as the center of a new tourist region.

#### ONGOING AND PROSPECTIVE PROJECT ACTIVITIES

#### 1. ONGOING PROJECTS

#### 1. Hulule Airport

Executing Agency:

Airport Project Unit, Office of

the President

Statusc

International Airport Authority of India hired as contractors on turnkey basis for civil works and fuel storage facilities; Standard Electric Lorenz, West Germany, hired as contractors for navigational aids. Completion late

1986.

Eac. Cost (US\$M equivalent):

22.0

External Assistance (US\$M equivalent):

Knweit Fund - 5.4 Saudi Fund - 9.0 Abu Dhebi - 2.0 OPRC Special Fund - 1.0

Unde/Edau

Project Description:

Realignment and reconstruction of ranway from about 5,000 feet to about 8,000 feet, strengthening of complete runway and taxi link and apron to Boding 727 bearing attempts and upgrading of ground services and facilities. Tethnical assistance and training apport for newly created Department of Civil Avistion.

#### 2. Make Land Renlamation

Executing Agency:

Department of Pablic Works,

Office of President

Status:

Begun April 1979; completion

dise Auril 1981,

Bat. Cost (US\$M equivalent):

2.7

External Assistance:

None

Project Description:

Reclaming about 14.7 acres of land within the western and sunthern breakmater at an average depth of 3 feet; extension of retaining wall of about 11,000 feet; estimated to provide area sufficient for settlement of about 2,000 people on lots of 40 x 50 feet; provision of other settlement services not included.

#### 3. Fisheries

Executing Agency:

Ministry of Picherics

Status:

TDA Gredit effective August, 1979; technical assistance initiates October 1979; completion due August 1981,

Est. Cost (USSM equivalent):

3.9

External Assistance (088M equivalent):

IDA = 3.2 DRDD = 0.3

Project Description:

Provision of credit for machanization of about 500 sailing flishing vessels, and financing catablishment of five maintenance and repair centers and installstion of aids to navigation; teckmical assistance to implement short-term training programs for skippers and master fishermen on improved finding benchoiques for mechanized vessels and to design improvements to existing vessels and test lenger-range vessels.

#### 4. Special Atoll Vote

Executions Agency:

Ministry of Provincial Affairs

Scatus;

Terms-year program voted mid-1979; activities to be implemented by line agencies.

Est. Cost (TS\$M equivalent):

1.9

External Assistance: •

None

Project Description:

Improvement to basic infrastructure on islands, including construction of about 70 new mosques, improvements to narbors and breakwaters, sid to island schools, and supplemental financing for additional staff for stoll offices and island courts.

# 5. Water Supply, Samiltation and Health

Executing Agency:

Water and Senitation Soard (NSB), Ministry of Realth

Status:

Ongoing programs supported by UN agencies.

Est. Cost (CS\$K equivalent):

1979-8] programs chown below

External Assistance (USSM pourvalent):

CNODE -1.57 (1980 only)

UNDP/WHD = 0.20UNTGEV = 1.0

Project Description:

Technical assistance, institutional support, training, and provision of supplies to MSB to provide for chlorination of wells and building of rainwater collectors; DNICEP program includes US\$0.9 million equivar lest program for Male, which it administers on behalf of UK. UMCDP activities will be focused on islands not several by other INICEP programs, financing rain water tanks and lattines on 30 islands and Male, and health conters in 15 stolls.

#### 6. Health Services

Executing Agency:

Hinjatry of Realtic

Status:

Ongoing programs supported by ON agencies.

Est. Coat (US\$M equivalent):

1979∸81 prugrama ahown below

External Assistance (US\$M equivalent):

CNOP/WHO = 0.74CNOP/WHO = 0.28 Project Description:

Technical assistance, instigutional support, training, provision of medical supplies, construction of facilities, and direct support of nonmunicable disease programs; support for a pilot project on primary health care, local training programs for auxiliary bealth workers; construction of four regional bespitals; oversees fellowship for training of medical personnel.

#### 7. Science Education Center

Executing Agency:

Ministry of Education

Status:

Science bluck completed; courses underway,

Est. Cost (US\$4 equivalent):

1979-8; programs shown below; Educational Fund till 1979 and regular Government budget contributions from 1980 onwards.

External Assistance (US\$M equivalent):

Knwait-\$0.18 for lab construction UNDP/DEESCO-\$1.03 including Administration Development Center.

Fruject Description:

Provision of familiation, supplies, and teachers to exhabitable program for post secondary supdents to study science and arts subjects to &-loyels.

## 8. <u>Education Development Center</u>

Executing Ageody:

Miniatry of Education,

Statue:

Ongoing programs; Siret school opened February (978

Est. Cost (DSSM etwivalent):

1979-81 programs endem below; Educational Find; exponses till 1979 MR 186,500. Katimeted 1980 expenses MR 762,000. External Assistance (USSM equivalent):

UNICEF = 0.45 Japan = 1.0 Atoll Voto = 0.13 DMDP/UNESCO = 2.03

Project Description:

Retablishment of community schools on islands, including development of curriculum and materials for primary education, training of teachers and headmasters, production of materials, and construction of school complexes; fevelopment of cummunity and mulfatual education programs for youlds and sdults; preparation of radio programs.

### 9. Yocational Training Center

Executing Agency:

Slantwickly Department, Office of President

Status:

Thiriaged May 1975, four courses updomway.

Tet, Cost (US\$N equivalent):

1979-81 agency support shows below

External Assistance
(US\$M equivalent);

PMDP/140 = 0.45

Froject Description:

Establishment of a vocational braining center in Maldivos to provide basic engineering training at shop-instructora level and job-entry level for four trades-electricity, dissel engine maintenance, machine shop, and welding/sheet metal work; construction of famility and supply of materials, training of counterpart staff, and provision of instructors.

#### 10. <u>National Planning and</u> Statistical Development

Executing Agency:

National Planning Agency, Otilice of Problems

Status:

Initiated mid-1979.

Est: Cost (USSM equivalent):

1979 ageacy support shown below

External Assistance:

UNDF (Adviser) ~ 0.07 (tentative

1979 budget only)

TWOP (Statistics) - 0.17

Asian Development Bank (Ta) - U.17

Project Description:

Technical assistance, training, and sector/project identification work to assist in astablishment of the NPA and the undertaking of formal planning exercises.

Extablishment of a Statistical

Department.

li. Madio Service

Executing Agency:

Radio Meldives, Department of Information and Broadcasting

Status;

Feasibility studies prepared by consultanta under Australian aid.

Rat. Cost (US\$M conivalent);

Not available

External Assistance:

Australia

Project Description:

Provision of two 5 KW transmitters, resyrangement of He scriel farm; provision of studio equipment, and rationalization of power distribution; low-powered transmitting stations in each stoll as part of microwave transmitters in no. 5 above; training of staff, provision of experts.

12. Rodent Control

Executing Apancy:

Ministry of Agriculture

Status;

Pilot program being propaged and implemented with PAO assistance.

Rat. Cost (US\$H equivalent):

Not evailable

External Assistance:

7AD

Project Description:

Systematic, country-wide rodent eradication program, based on rodenticides and better management practices in communications.

#### PROSMECTIVE PROJECTS

#### 1. Male Water Supply

Executing Agency:

Maldives Water and Samigation Authority (HWSA), Ministry of

Health

Statue:

Modesibility studied prepared by consultants under UNDP funding in 1974, which need to be updated.

Est, Cost (USSM nggivaloct):

4.5 for water supply and 4.2 for full sewerage (1974 prices).

External Assistance:

Federal Republic of Germany -DM 10 million.

Project Description:

Updating of Seasthility study; components likely to include: provision of roof area createmests and relowater collecting tanks for drinking water ampyly; sabitacion improvements impough full sewerage or aqua-privies. with tanka.

#### 2. Male Harbor

Executing Agency:

Ports Commission/Department of Public Works, Office of President

Blatus:

Beasibility study prepared by UK/ODA sponsored consultants.

Est. Cust (USSM equivalent);

3.2

External Assistance:

Umdet discussion with UK Government.

Project Description;

Representing and realityming exists ing breakwater to inder harbor, provision of teep-water berth for vessels up to 12,000 GRT with cacpo tracafer wharf and warehousest diredging of inner Larbor. for commercial, fishing, interisland, tourist, and cored boet

use; provision of workshops and slipway for vessels up to 100 tons.

#### 3. Male Power Ciatribution

Executing Agency:

Electricity Department, Office

of Presidenc

Status:

Feasibility Scudy prepared

February 1979.

Est. Cost (USSM equivalent):

1.0

Raternal Assistance:

Undetermined

Project Description:

Upgrading and extending existing electricity distribution system by converting to 6.6 KV and construction of one 6.6 KV ring main transmission network (with power supplies at both ends, eleven secondary substations, appropriate switchgours, transformers, and overhead spurlines), low-tension distribution network, equipment, tools and spares, and professional services to manage the construction.

#### 4. Male Roads

Executing Agency:

Department of Public Works, Office

of President

Status;

Pessibility study propered by consultant in February 1977.

Rat. Cost (US\$M equivalent):

1,2

External Assistance:

Undecersiond

Project Description:

Tarring of about six miles of reads, including construction of appropriate subgrade, with storm water gratings and catch pits at every 80 to 100 feet, and sizewalk and curb over the sidewalls of the drains.

#### 5. Inter-Atoll Communication

Executing Agency:

TGD, Office of President

Status:

Feasibility study prepared by

consultants.

Est. Cost (DS\$M equivalent):

3,7 for Phase I; no estimate

available for Phase II.

External Asaistance:

Undetermined

Project Description:

Phase I - provision of interetoli telephone and telex facilities by a multichannel, microwave transmitter in Mala, with repeaters and solar panels : for power supply at appropriate places in each stell; Phase II linking of islands in each atall via VHZ/LHF transactivers.

#### 6. Inter-Teland Transport and Telecommunications

Executing Agency:

Ministry of Transport

Statust

Technical Assistance for project proparation funded by ADR; project preparation underway.

Est. Cost (US\$M equivalent);

10.0 (approximate), though still

undetermined.

Tablermal Assistances

The delice colleged

Project Description:

Provision of a few motorized passenger/darge vessels suitably fittend with mavigation and belomentations equipment to provide regular interplated service; improvement of landing/shore and maintenance facilities at ports of call; havigational side and wrather forecasting services; improvement of interplated and

marine communications.

#### 7. Integrated Rural Development

Executing Agency:

Ministry of Provincial Affairs

SCAPUB:

Pikok project under preparation

by ESCAP.

Est. Cost (US\$M equivalent):

Not available

Externel Assistance:

Undecensined

Project Description:

Renchmark survey and preparation of an integrated development plan for one stoll; components could include cooperative ventures for fishemen, bandicrafts, women's clubs and youth activition, continuing non-formal education vis community schools, health sectionary schools, health sectionary, fuelwood production, redent control, fruits and vegethbles, and poultry; after pilot programs and administrative mechanisms are teated, similar programs could be lannahed in additional atolls.

### 8. Materials Production for Community Schools

Executing Agency:

Education Development Center,

Ministry of Education.

Stacus:

Curriculum for grade one completed; materials for succeeding four years

will be introduced in stages.

Est. Cost (CS\$M equivalent):

0.1

External Assistance:

Government actively seeking assis-

cance.

Project Description:

Printing of materials developed by EDC for island schools to be made available to the entire primary school-age population; curriculum to be developed to be relevant to island society and to include Drivehi, environmental studies, religion, mathematics,

and English.

#### 9. Trade Information Services

Executing Agency:

STO, Office of Fremident

Starce:

Plans under preparation.

Est. Cost (NS\$M equivalent):

820,500 (1979-B1)

External Assistance:

UNDP/UNCTAD International Itade

Center ESCAP

Project Description:

Establishment of a small information unit to gather trade
information for major commodity
purchases, with desociated training in international tendering
and trade promotion. Kainly
equipment and some technical

aseistance.

#### 10. Fish Collection and Processing

Executing Agency:

Ministry of Fisheries

Status:

Preparation moderway.

Rati Cost (NBSM agrivelent):

15.0-20.0

External Assistance:

Knweit fund financing preparation is activities; scope of final investment proposals likely to require additional external

aesistance.

Project Description:

Collection and marketing intrastructure for dishing operations in the southern one-third of the country; itself distribution.

#### 11. Gan Island Davelopment

RMedsding Agency:

DTFL, Office of President; Gam Committee, Ministry of Provincial

Affairs

Status:

See Ammex C.

#### 12. Technical Services - Hulule Airport

Executing Agency:

Ministry of Transport

Stetue:

Proposel under preparation with

assistance from ICAO,

Est. Cost (US\$M equivalent):

Not available

External Assistance:

UNDP ICAG WMO

Project Description:

Training of staff and provision of equipment to be able to provide complete weather forecasting and radar control work for airline service to Maldives; due to unforeseen difficulties, this service, which was originally assumed to be provided by the Colombo, Sri Lanks sirport, will need to be provided at Male airport.

### 13. Sports Training

Executing Agency:

Ministry of Home Affairs

Statua:

Voder preparation.

Şat. Cost (MS\$M equivalent);

Not available,

External Assistance:

Undetermined

Project Description;

Four coaches to build sports programs in schools and with local teams, including football, valleyball, tabletonnis, basketball, and badminton; training of local

instructors, referees, and umpires.

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#### STATISTICAL APPENDIX 1/

#### Table No.

5.2

5.3

1977-79

1.1	Distribution of the Population, 1967-77
1.2	Population and Rouseholds by Atolls and by Sex in 1977
1.3	Population by 5-Year Age Groups, Sex and Location
1.4	Population in Islands by Size, Class of Island and Sex
1.5	Tumigrant and Permanently Resident Populations of Wale and the . Atolla in 1977
1.6	Ymmigrant Population of Male by Atoll of Origin, 1977
1.7	Employment in Government and Private Sectors by Industry, Primary Occupations and Sex in 1977
8, [	Employment in Covernment and Private Sectore by Main Occupation, Location and Sex in 1977
1.9	Population, Employment and Unemployment by Atoll in 1977
1,10	Age-Sex Specific Labor Force Participation Rates in 1977
1.11	Composition of Unemployment by Age, Ber and Location, 1977
1.12	Unemployment Rates by Age, Sex and Location
2.1	Gross Domestic Product by Expenditure: Preliminary Estimates
2.2	Gross Domestic Product: Preliminary Estimates of Output by Sector
	of Production in 1978
3.1	Balance of Payments on Goods and Services Account
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3.3	Exports by Country of Destination
3,4	Composition of Imports by End Dec. 1974-79
3.5	Unit Values for Selected Exports and Imports, 1974-79
3.6	Price and Quantum Indices for Selected Exports and Imports.
<i></i>	1974-78
3.7	Imports from UECO Kember Countries, 1976-76
3.8	Flow of Official Development Assistance to the Maldives, 1974-77
3.9	TN Agencies Programs
4.1	External Public Debt outstanding including Undisbursed as of December 31, 1978
4.2	Service Payments, Commitments, Disbursements and Outstanding Amount
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Budgetary Expenditures of the Government by Spending Authority,

Selected Sources of Budgetary Revenue, 1978-79

<sup>1/</sup> Beries 6 of the Statistical Appendix containing monotory statistics has been omitted from this version of the report at the request of the Government.

### STATISTICAL APPENDIX (continuation)

Quality of Housing Health Indicators, 1977-79

## <u>Table No.</u>

10.7 10.8

	·
7.1	Production, Exports and Local Consumption of Fish, 1967-78
7.2	Figh Landings, Classified by Atoll, 1977-78
7.3	Average Number of Wishing Dava per Atoll, 1974-78, and Number of Yeasols Registered by Aboll at mid-1979
7.4	Purchases of Eish by Foreign Companies, 1974-79 and Implied Tax
	Jurden on Fishermen
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7.8	Losenge of Unoccupied Talends, Clessified by Atoll of Residence, 1979
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	,
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8.5	Maldives Shipping Limited - Fleet Particulars
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9.1	Structure of Government Wages and Salaries, July 1979
9.2	Retail Prices of Selected Commodities, 1975-79
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	and Rainy Days, Reserded at Helale Airport
10.2	Pemsle Population, by Marital Status and Number of Marriages,
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10.3	Per Capita Availability and Distribution of Essential Commudities
	by State Trading Organization
10.4	Literacy by Age, Sex and Location
10.5	Educational Attainment by Age, Sex and Location
10.ô	Current School Attendance by Agn. Grade, Sex and Location

-

Table 1.12 DISTRIBUTION OF THE POPULATION, 1967-77/8

		1967.			$1972\frac{76}{11}$			1977	
	T <u>otal</u>	<u>Maile</u>	<u> Yemala</u>	<u>Total</u>	<u>Hale</u>	Female	Total	Male	<u>Pemalo</u>
Total	103,801	55,346	46,455	1,22,673	64,924	57,749	342,832	75,224	67,608
Male	11,760	6,147	5,519	15,279	7,830	7,448	29,522	16,635	12,887
Atolis, except Male	92,041	49,205	42,834	106,930	56 .804	50,099	113,310	58,5B9	54,772
Haa Alifo	7,148	3,742	3,400	X,363	4,412	3,949	8,501	4,416	4,765
Ham Dhaalu	8,336	4,425	3,961	9,282	4,924	6,338	9,92J	5,133	4,790
Shavlyani	4,832	2,602	2,790	5,805	3,116	2,689	6,363	3,293	3,070
Noonv	5,187	2,318	2,369	5,919	3,198	2,721	6,287	3,306	2,976
Ras	6,743	3,607	3,136	7,803	4,172	3,631	7,904	4,076	3,828
Ван	4,605	2,56R	2,037	5,191	2,797	2,394	5,758	3,080	2,676
1haviyani	5,245	2,9404	2,340	3,628	3,159	2,663	5,655	2,977	2,678
Kanfu	з,033	1,679	1,354	3,912	1,903	1,609	4,153	2,258	1,895
Alifu	4,731	2,63.7	2,114	5,470	2,975	2,495	6,219	3,365	2,854
Vaavo	នារួត	452	366	9.31.	519	412	1,078	59.5	483
Karimi	2,359	1,392	1,167	3,065	1,630	1,43€	3,095	2,630	3,465
Faafu	1.49B	835	863	1,692	900	792	1,986	1,070	926
Vnealo	2,695	1,497	1, 1,98	J,D76	1,659	3,437	2,999	1,538	1,461
Thea	5,534	2,922	2,512	6,409	3,346	3,U <b>6</b> 3	6,214	3,174	3,040
Таати	4,721	2,548	2,173	5,350	2,696	2,454	6,090	1,232	2,85%
Gnaf Allf	4,128	2,113	2,00.5	4,917	2,490	2,327	4,977	2,572	2,405
Gaafo Mhaalu	6,612	3,351	3,261	7,825	4,902	3,813	7,717	3,805	3,9%2
Coaviyani	3,40S	1,819	1,556	3,587	2,120	1,867	4,202	2,128	2,074
Seenv	10,301	5,314	4,787	12,619	6,616	6,003	14,094	6,961	7,133

The 1977 population data for Ma's and for the individual atolls is not strictly comparable with earlier census data due both to the poor quality of the earlier data and differences in methodology.

Sources: Cemaga, 1967, 1972, 1977.

<sup>/</sup>b The regional population totals for 1977 do not add up to the mational population totals for resease which are not known.

	Latenda (Kort-eng)				Vegelation (Humbers)			P.	Arcongo Populatino
	δι <u>Islands</u>	Inhabá Led 101anda	Unidadico: Islands	Bo. of <u>Scuseholda</u>	Sexes	<u>Male</u>	<u>France</u>	Avecage Populacion Pac Ialaud	oi Iulubiced Iulonda
Вин А1л (п	čn	16	26	L,4c)	ម, <i>ស</i> ច	6,016	4, 085	215.0	597,6
Hem Steamin	97	17	70	1,393	9,995	5,177	4.790	Х6н,2	589,7
Sheviyar,i	55	15	40	1,201	6,363	3,293	3,070	115.7	626,2
36000	76	14	67	2,116	6,252	3,906	2,976	82.7	448.7
Ken	99	16	74	1 ,4 54	7,904	4,076	7,82B	A7.A	494.0
160	90	13	νī	1,025	5,738	9,000	2,678	72.0	442.9
Theolyeci	61	¢	57	897	5,655	2,977	2,678	92.7	1.415.0
leazo	<del>9</del> U	ģ	89	727	4,153	2,258	1,895	42.4	461.4
A1170	79	15	61	1,104	6,21.9	3,365	2,854	78.7	343.5
Tamon .	19	5	14	1.76	1,078	595	480	56.7	215.6
Neeru	30	9	ZL	346	3,095	1,610	1,405	j. 93 <b>.8</b>	343.9
Feefu	26	5	21	309	1,486	1,070	916	76.4	397.2
Ulran3c	57	н	LO	518	2,499	0,518	5,461	92.6	37 <b>4.9</b>
Than	68	19	55	164	6,714	3,174	5,040	91.4	4/6.0
Leonu	82	12	70	1,127	6,080	3,202	2,858	74.3	507.5
Sedf Alif	87	10	,77	1,00%	4,977	2,572	2,495	57.2	697.7
Снибе <u>трал</u> іт	LSA	10	140	L, 5-641	7,717	3,805	3,912	. 6,6	771.7
Snau (yani	1	1	-	762	4,202	2,128	2,574	4,202.0	4,202.0
Seeuc .	38	ĥ	32	2,382	14,094	6,761	7,133	370,9	2,349.0
Kele	1	Ĺ	••	3,053	29,523	16,635	12,887	<b>59,52</b> 2.0	79,522.0
Atolik, egzept Helu	1,183	20]	994	20,137	110,010	58,549	54,721	95.6	563.7
TIPINI.	1.186	202	984	29,290	142,839	75 <sub>1</sub> 224	67,608	(120.4	707.1
	-								

<sup>-</sup> Mil or megligible.

Sougra: Cemana, 1977.

Pable 1.3: POWNATION BY 5 YEAR AGE GROUPS, SEY AND LOCATION

	<u> </u>	<u> ctire Repub</u> l	.ie	<u>Ac</u>	Atolla except Male			Mate		
Age <u> Group</u>	Sexes _	. <u>Ма Lo</u>	Female	Bath Sexes	<u>∀</u> s1a	<u> </u>	Set h Sexes	Ив 14	Penalc	
linder 1	4,856	2,439	2.427	4, 157	2,074	2,083	709	365	344	
\$868 1 - A	18,971	9,640	9.341	15.886	9.019	7.867	3. R8 5	1.521	1.464	
Авня 5 — 9	21,793	11,657	10,731	18,199	9.200	8,991	3, 584	T 264	1. 740	
Ages 10 - 14	T8.126	9,409	8,717	14,411	7.50 <b>/</b> j	6,907	3, 755	1.905	1,910	
Ages 15 39	16,240	8,173	8,067	21.985	5, 985	6,000	A. 255	2,188	2.067	
Ages 20 - <u>2</u> 5	11.584	5.958	5,726	8,440	4,016	4,424	3, 2/4	1,942	1,302	
Ages 25 - 29	7.472	3.973	0.499	5,324	2.678	2,696	<b>7,1</b> 48	1,345	5D3	
Ages 30 - 34	7,296	3,654	3,627	5.375	2.509	2,866	1,916	1,155	761	
Agox 35 - 39	8.426	4,017	4.109	6,617	3 345	3,372	1.905	1.072	727	
Авен 40 - 44	7.565	4,232	3,419	6,256	3,296	2,860	3,409	856	373	
Apes 45 - 49	.6,073	3,621	2,452	5,066	3,0 <u>1</u> 5	2,051	1,307	60%	401	
Ages 50 = 54	4,609	2,644	1,965	4 <sub>2</sub> 787	2,138	1,649	822	506	316	
Ages 5c - 59	4,065	1,831	1,238	2,538	1, 512	1,026	731	319	212	
Авен 60 — 64	2,579	1,502	1,647	2,143	1,262	581	372	212	1 <del>6</del> 7	
Адын 65 — 69	1,440	532	yay	1,202	One	439	169	11 <sup>1</sup> 7	£9	
Ages 70 - 74	1,006	653	340	659	570	299	1,47	 sa	54	
Ages 75 - 79	447	924	237	2/6	275	101	 53	49	. 26	
Agae 88 84	217	250	57	188	1.01	57	29	19	10	
Адни 85 алд отог	245	3,03	ላፎ	7.78	9я	21	21	17	- 9	
All Agae <u>/z</u>	142,832	75,224	67,50H	1_2,310	58 <sub>1</sub> 569	36,72 <u>1</u>	29,592	15,635	17,887	

 $<sup>\</sup>int\! a - Encludes not stated.$ 

bourse: Census, 1977.

Table 1.4: POPULATION IN ISLANDS BY SIZE, CLASS OF ISLAND AND SEK

	No. of	Both	Se	
Number of Inhabitants	<u>Islands</u>	<u> Sexee</u>	Male	<u>Female</u>
Less than 200	2B	3,952	1,091	1,861
200 - 499	107	35,389	18,438	16,951
500 999	48	34,663	17,945	16,718
1,000 - 1,999	11	15,480	7.874	7,606
2,000 - 4,999	6	16,900	5,522	8,378
5,COO - 9,999	<u>1</u>	6,256	3,061	3,195
10,000 and Abeve	3	28,833	16,013	12,820
Total	<u>202</u>	142,832	75,224	67,608
Population Outside the Country	-	1,359	1,280	79
Ail Ielanāa	202	141,473	73,944	67,5%9

<sup>-</sup> Kil or negligible

Source: Census, 1977.

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Table 1.5: IMMIGRANT AND PERMANENTLY RESIDENT POSULATIONS OF WALE AND THE ATOLIS IN 1977 (Numbers and Percentages)

·	Total Enumerated Population	Enumerated Population with No Other Residence	Net Trmigrant Population	Tamigreste As % of Total Population
Man Alifo	8,601	8,399	202	2,j
Haa Dhaalu	9,923	9,309	614	6.2
Shaviyani	6,363	6,068	295	4.6
Montau	6,282	6,034	248	3.9
Rag	7,904	7,726	178	2.3
Bas	5.758	5,507	251	4.4
LhavLyanā	5,655	5,482	173	J <b>.</b> 1
Kasa£u	4,153	3,922	231	5.6
Alifu	6,219	6,044	1.75	2.8
Vaavu	1,076	997	81	7.5
Межьи	3,095	2,973	122	3.9
Fastîn	1,986	1,870	116	5.8
Phsalu	2,999	2,904	95	3.2
Thea	6,214	5,728	406	7.5
Lasimi	6,090	5,615	475	7.8
Geaf Alif	4,977	4,6B5	252	5. <del>9</del>
Goafu Dhaalu	7,717	7,485	232	3.0
Cnaviyani	4,202	4,082	120	2.9
Seenu	14,094	<u> 13,261</u>	<u> 833</u>	<u>5.9</u>
Atolis except Male	τια,310	108,091	5,219	4,6
Malu	29,522	17,621	11,901	40.3
EOTAL	142,832	3,25,712	3,7,120	1.2.0

Source: Geneus, 1977.

Table 1.6: IMMIGRANT POPULATION OF MALE BY ATOLL OF ORIGIN, 1977

Immigrants from:	<u>но.</u>	Percentage of total
Haa Alifu	81,5	8.2
Haa Dhaalu	1,076	10.9
Shaviyani	287	2.9
Noonu	581	5.9
Raa	673	6.B
Bea	363	3.9
Lh <b>evi</b> yani	558	5.6
Kaafu	225	2.3
Alifo	461	4.7
Vaavu	<b>6</b> 6	0.9
Mélemu	301	3.0
Faafu	97	1.6
Dhaalu	382	3.9
Thea	934	9.4
Laanu	289	2.9
Caaf Alif	392	4.0
Gasfu Dhaslu	1,195	12.1
Gnaviyani	212	2.1
Seenu	942	9.5
Total immigrants	9,889	100.0
Previous residence unknown or unstated	1,923	-
Permanently resident population	17,710	-
Total Pupulation	29,522	-

Source: Census, 1977.

<sup>-</sup> Wil or mogligible

 $\frac{\text{table 1.1:}}{\text{primary 000TPAINTML AND FRITARS SECTION BY CHOUSTRY,}}$ 

	7#1 <u>##ipel Geouperion</u>						
	Emples	<u>red Popula</u> r	iot	Type of Po	; Layeont		
	Total	Hale	Yersia.	<u>Covernments</u>	Privote		
sortenil bern	<u>6,3Q</u> .	<u>7,870</u>	3,177	^ <u>29</u>	<u>5,318, /#</u>		
of whith: Production of Coreal Grade Production of Rocke and Tubers	1,795 2,161	730 603	1,005 1,754	<u>-</u> 1	1,524 2,960		
Toddy Topping and Beloted Accidition	1,253	1,170	05	1	L,252		
P1shiow	27,173	22 <u>,500</u>	<u> </u>	<u>1118</u>	<u>21,036</u>		
of which: Pole and Time ticking	19,269	:8,757	512	10	19,251		
Services and Other Activities Rejuted to Fighing	A,965	1,max	5,916	105	6,800		
<u>Harryfractaulog</u>	<u>13,851</u>	<u>5,927</u>	10,4 <u>24</u>	<u> 94</u>	. <u>1</u> 5 <u>1817</u>		
of chica: Coir and Coir Products Caller, Mat and Other Testile	7,086 5,924	221 619	6,855 7,955	÷.	7,065 9,034		
Products Seturbard Ticherp, Musalusta and Playuses	1,205	1,:99	10	11	1,194		
Construction	<u>1,885</u>	1,834	<u>:1</u>	<u>491</u>	1,354		
nž váľoh: Hous <u>ing</u> Brá Dihec Builfings	<del>2</del> 79	759	25	25	953		
Rischolding, Water and Laufoury Services	204	206	<u>2</u>	<u>100</u>	<u> 76</u>		
Commercia and Benking	1,899	1.86d	272	2.7 <u>7</u>	-,41 <u>3</u>		
of whiche Wholeswie and Recoil Coade	1,341	1,183	112	74	$1_{1}\lambda^{\frac{2}{3}}\hat{I}$		
Bagks and Obbaz Pitanets/ Engbacktions	195	174	71	170	25		
Tomospudt, Storage and <u>Todouhitapidana</u>	<u>5,301</u>	<u>1,208</u>	<u>i2</u>	1,471	1,525		
of moich: water Transport Mot Cunnessed with Tourism	2,936	8, 315	21	282	,454		
Тостьня	<u> 411</u>	<u>385</u>	<u>26</u>	<u> 38</u>	<u>255</u>		
Kervijco	<u>a</u> ,c <u>21</u>	212/5	<u>1,</u> 44 <u>2</u>	<u> </u>	2 <u>,515</u>		
gt which: Tublic Administrator (son and Ecfetian Administrator and Hearth	1,555 987	1,707 378	400 400	1,176 467	155 520		
Permonal Services	1,19+	4 27	757	57-	1,10%		
Total /a	86,29 <u>9 /5</u>	<u> </u>	<u>27 ,</u> ±68	p., 23 <u>5</u>	<u>25,320</u>		

<sup>-</sup> Hil or neg(igib)4

Sucres: Preliminary Service, 1977 Suce.

<sup>78</sup> Indicating others not scatted.
The Indicating 3,000 perform order the age of 15. Sigures are not staintly congressia with those in public i.e., 1.11, and 1.18.

 $\underline{14516},\underline{15}_{1}$  is decomposed in generalized and PROWAR EBG7036 BY MAIN department, location and Sec  $\underline{15}$  1977

,			Tanga Si KuRo	o) cerant .		lection of Replement		
Peti-grapher	<u>Total</u>	<u> Male</u>	<u> Permila</u>	Coupen-	<u>vedento</u> /s	<u> </u>	Applie	
Professional, technical and calated workers	54½	675	308	280	G02	477	303	
ct weich:								
Boginerte Koginerting technicipis	48 153	45 132	•	1h 79	<u>27</u> 75	25 115	110 37	
Reffee Action Heimal Codemicians, jubic Louist Voylogo,	, 		<u>.</u>	Ÿ	2	F		
numers and medical contents numbers	307	:15	197	U*	375	115	185	
School teachers and administratives Judgma and related Homewra	795 LGS	146 105	<u>-</u>	7 <u>9</u> 41	223 12	130 25	165 89	
Administrative, executive, managerial								
und elected winkers siens:	1,575	1,146	<b>332</b>	1,200	<b>J1</b> 3	1,708	241	
Sulet engkopt	1.605	3 , 144	201	52	1,550	970	f <b>1</b> 5	
Regionitytal and animal humbracky workers and Distances	33,168	23,202	51965	42	95,126	345	J2,526	
a f_whitaha	1			_				
Payment and form leborate Young Lappers and culeted Workship	a,75% 1,236	1,6-10 1,253	14,004 83	7 2	4,201 1,234	15 15	2,644 1,221	
Pichernen	19,936	19,045	9.52	7	19,579	426	19,714	
Verkary engages in final processing and exporting these.	7,290	ኔ ነዘ	5.250	97	6,241	25	6,217	
Quartymen and telerad contains	767	578	c	ů	3.78	ZAY	275	
Intropert mokers	2,530	1,044	'n	K57	1,611	507	1,513	
nē ¥hiseh:								
Bootsmort ond draw	2,051	2,051	31	672	1,376	632	1,452	
Craftsman and Laborate	2,817	2,728	86	1.158	1,686	2,008	ВЭе	
of which:	<b>4</b> ·	<b>~</b> i		λ:	NC	471		
Valdece and related works/s Sicopologians and related works/s brucklayers and reinforced concestors,	N: 64	Э. 64		94 94	કંડે	5g		
tils and marble detrois, and store	508	971	10	58	957	754	1^1	
Projectica warkees e.e.s.	13,785	7.650	20,959	50	17,755	1,004	12,707	
oC ((h1)))								
Idilara old Glastrakora Demostiers and Hoodwoodera	918 1,294	25 <i>1</i> 1,273	551 21	<u>2</u> 16	753 ( <sub>7</sub> 276	152 147	282 447	
Bodelse Wadkasu	3,056	2,848	908	1,371	1,975	1,516	1,500	
of which: Followsen, samerity guards, outciden.								
wed prejective of vite verkend i.e.d. Gooks, vaicage, paida son talazat	NAZ	611	6	571		304	333	
нэтЕсея	1., 275	564	443	314	1, 31	510	w(e	
TOTAL <u>IA</u>	60,259 <u>/b</u>		29,268		55,830	4.726	50,834	

<sup>-</sup> Hall or negligible

 $<sup>\</sup>frac{f_0}{\sqrt{\epsilon}}$  . Including behave not stated, i.  $f_0$  . Includes we not state the comparable with street in Tables 1.5, 1.11, and 1.12.

 $<sup>\</sup>underline{\texttt{SCOSSO}}_{\mathsf{T}} := \texttt{PicelLelenewy Constant}_{\mathsf{T}} = \texttt{NTM}(\texttt{AdSO}_{\mathsf{T}})$ 

T<u>eble (1,9</u>5 FORULATION, EKPLOYMENT AKO DEMPLOYMENT BY ANDLL EK 1977 (Humbets and Percentages)

	Posses Humbers	<u>asinn</u>	<u>10000</u>	Force In	<u> ըստիոզը</u> Ծար <u>հ</u> որ	yed %	<u>Unancia</u> Habbara	yad <u>"</u>	Champlogment as X of the labor force	Labor force war Sind title populariyog
Hea Alifu	2,601	b.J	3,60%	5.9	J,395	2.0	410	6.9	5.9	42.0
Raa Ohoola	9.921	9.0	1 3,5U4	7.3	4,496	7.8	<b>SA</b>	2.5	J.9	46.2
Shaviyang.	5,,169	4.5	3,156	1,2	5,325	5.4	30	U,A	i , <b>c</b>	Δ9.6
Yourra	0,282	4.4	2,796	4,3	2,636	4.7	90	2.3	2,9	48.9
iaa	7,964	5.5	4,010	6.6	3,536	5.9	74	2.1	i.0	50.7
220	ā.758	4.0	\$ <b>,</b> 676	4,4	6,565	4.5	71	2.0	2.7	4615
Bioviyani	5,655	4.0	2,487	4.1	2,419	4.2	De	1.9	2.7	ሳሳቱ፡፡
Keeði	4,153	2.9	1,589	2.6	1,451	2.5	J sa	3	5.7	Saun
Alia	6,219	4,4	5,011	4.9	2,997	5	74	2.1	2.5	48,4
<b>Улум</b> ц	1,078	0.8	543	9.9	490	0.4	<b>3</b> J	1.5	9.8	50.4
Heren	3,095	2.2	1,534	2.5	1,534	2.7	30	7.4	1.1	50.0
εζεία	1,986	LA	976	2,4	955	1.7	21	Uyh	2.2	29.1
Dobato	_ 2,999	2.1	1,499	2.0	1,154	2.0	45	1.3	3.6	00.0
Ţ:##	6,2:4	4.4	2,760	4.5	2,708	4.7	. 40		2.2	<u>~</u> .5
Lard	6,056	4.3	2,797	ሳታታ	2,508	4,5	149	4.2	5,4	24.9
Confiatiti	4,577	3,5	2,669	4.4	2,419	4_6	5+	1.5	2.0	5316
Canto Stanto	$7_x), \gamma$	5.4	3,625	6.0	0,557	6.7	d	2.0	2.0	47.0
Candiyani	4,762	2.9	1,705	7.8	1,651	2.9	4.0	1.5	9.2	40.5
Seemu	16,094	5,9	4 306	7.1	9,812	6.0	456	14.0	4,5	39.6
Mule	29, 522	20.7	10,999	,A,Ų	9,266	16.2	1,673	47.4	13.3	27.1
Асобія емеере ньбе	113,500	79.3	49,964	R2.0	46,105	83.8	1,259	5X.6	5.7	<u>~</u> .1
TOTAL	142,832	50070	60 , 9 <b>G</b> 3	100.0	57,371	ica,a	3,592	100,9	5.4	42.0

 $<sup>\</sup>underline{ta}$  -Boonomically equive population 15 years of eac end over.

Note: Not to rounding off, components may not add up to cotale.

<sup>&</sup>lt;u>Source</u>: Commune, 1977.

 $\underline{\underline{\mathtt{Tabls}\ 1.10}};$  AGE-SEX SPECIFIC LABOR FORCE FARTICIPATION RATES IN 1977  $\underline{/a}$ 

	<u> 1977</u>	
Age Croup	<u>Male</u>	Pemale
10 - 14	32.7	19,9
7,5 - <b>1</b> 9	78.0	52.2
20 - 24	93.4	62.1
25 - 29	95.0	64.7
30 - 34	95.7	64.8
35 - 39	96.5	70.7
40 - 44	96.8	71.9
45 - 49	97.0	73.3
50 - 54	95.5	68.1
55 <b>- 5</b> 9	93.8	61.5
60 - 64	87.5	52.3
65 <b>-</b> 69	80.5	40.6
70 - 74	64.1	34.1
75 +	41.5	24.1

 $<sup>\</sup>frac{\sqrt{a}}{a}$  Encommonally active population as a percentage of total population.

Source: Census, 1977.

<sup>/</sup>b including 3,000 workers under the age of 15. Figures are not atrictly comparable with those in Tables 1.9. 1.11, and 1.12.

Table 1.11: COMPOSITION OF ONEMPROYMENT BY AGE, SEX AND LAXATION, 1977

	Entire Reg		A <u>tells_ex</u>	<u>ecpt Male.</u>	Ma2	<u> </u>	5eeum.	
		Percentage	<del>-</del> ·	Percentage		Perceatage		Percentage
с Створя	<u>Usemployed</u>	of Total	Unemployed	of Total	Unemployed	of Total	Unemployed	of Total
<u> 15 - 19</u>								
Both Seres	$\frac{1,302}{1}$	$\frac{36.9}{27.4}$	$\frac{697}{475}$	37.5 25.6	605 493	36.2 29.5	239 211	48.2 42.5
Mole	968							42,5
Penale	337	9.5	222	33.9	1,12	6,7	28	5,6
2D - 24								
Both Seres	<u>603</u>	$\frac{17.1}{11.9}$	272 161	<u>14.6</u> 8.7	33 <u>1</u> 259	1 <u>9,8</u> 35,5	<u>74</u> 54	14.9 10.9
Male	420			8.7		<u> 15,5</u>	54	10.9
Female	193	5.2	111	5.0	72	4.3	20	4.0
25 - 29							•	
Buth Sexes	286	$\frac{9.1}{5.4}$	<u>130</u> 70	7.49	15fi. 122	9,3	$\frac{34}{24}$	6.9 4.8
Male .	192	5.4		.7. <b>.</b> 0. 3.8	122	$\frac{9,3}{7,3}$		4.B
Female	94	2,7	60	3.2	34	2.0	10	2.0
<u> 30 - 34 </u>								
Both Rexog	<u>243</u> 141	$\underline{6}, \underline{9}$	<u> 319</u>	6.4	124	7,4	1.7	3.4
Male	141	$\frac{6.9}{4.0}$	$\frac{319}{62}$	6.4 3.3	$-\frac{124}{79}$	$\frac{7.4}{4.7}$	$\frac{17}{11}$	$\frac{3.4}{2.2}$
Female	162	2.9	57	3.1	4.5	2,7	ń	1.2
35 and above								
Hath Sexes	<u>1.</u> 0 <u>98</u>	$\frac{31.1}{20.6}$	641	34.5	457	27.3	132	26.6
Male	736	$\overline{20.6}$	<u> 641.</u> ትቦቷ	34.5 21.6	457 335	$\frac{27.3}{20.0}$	$\frac{132}{112}$	$\frac{26.6}{22.6}$
Female	362	10.2	240	12.9	177	7.3	20	۵,۵
Total (Both Sexes)	3,532	100.0	9,8,0	100.0	1,673	10D.D	496	100.0

<sup>/</sup>a Unamployed as a potentiage of total unemployed.

Note: Rue to rounding off, components may not add to totals,

Source: Cousus, 1977,

 $\zeta_{+}^{\infty}$ 

<u>Table 1.12</u>: SMEMPLOYMENT RATES  $\frac{\sqrt{8}}{1}$  BY AGE, SEX AND LOCATION

ACE GROUPS 15 - 19	Entire Republic	Atolle <u>Excect Male</u>	<u>Male</u>	Seemu <u>Atol</u> l
Both Sexes	12.3	7.9	33.9	35.0
Mele	15.2	9.5	35.4	41.9
<b>Female</b>	7.9	5.8	28.6	15,6
<u> 20 - 24</u>				
Boch Sexes	6.6	3.9	15.7	16,1
Male	7.5	4.2	<b>14</b> ,6	19.5
Femalé	5.1	3.4	20,4	10.9
<u> 25 = 29</u>				
Both Sexes	4.7	2.9	10.5	8.,5
Male	5.1	2.8	9.7	9.2
Fenale	4,2	2,9	14.5	7.1
30 - 34				
Bots Sexes	4.1	2.6	9.7	3.5
Male	4, U	2.6	7,3	4.2
Female	4.3	2.7	22.6	2.7
35 and above				
Both Sexes	3,8	2.6	30.7	5,8
Male	3.9	2.6	9.3	7.4
Female	3.6	2.5	17.6	2.6
<u> Fotsl</u>				
Both Sexes	5.8	3.7	15.3	11.5
Male	6,4	4.0	14.2	34,6
Fommle	4.7	3.3	20.6	5.7

Source: Census, 1977,

 $<sup>\</sup>underline{fa}$  Unemployment as a percentage of economically active population.

Table 2.1: GROSS DOMESTIC PRODUCE BY EXPENDITURE: PRELIMINARY ESTIMATES (midlions of Maidivian Ropees at 1978 prices)

		· · · · · · · · · · · · · · · · · · ·			
	1974	1975	1.976	1,977	1978
ersonal consumption expenditure	90.0	93.2	92.9	1.50 , 2 <sup>/48</sup>	103.0 <mark>/1</mark>
Pross private domestic investment	2.7	7.9	1.3 . 4	15.1	34.1 <sup>/b</sup>
overnment consumption and investment	25.9	30. <del>9</del>	40.9	42.0	51.2
Types Dominatic Expenditure (GDK = C + T )	119.6	132.0	147.2	207.3	178.3
Exports of goods and non-factor services	7G.O	55.2	71.9	92.2	137.8
πports of guods and non-fector services	65.2	85.4	65.4	115.3	116.6
Resoutee Malance (RB = X - M)	344.B	-19.2	÷6.5	-23.1	+21.2
Shoas Dumestic Product (CDP = CDX + RB)	120.4	121.8	153.7	184.2	19978
Wet Pactor Services (PSY)	Ž2. š	13.7	75.1.	16.7	7.3
Pross Mational Product at 1978 tarket prices (GDP + FSY)	146.9	135.5	166.8	200.9	205.8

 $<sup>\</sup>frac{f_{\rm B}}{f_{\rm B}}$  The sharp increase over 1976 is due to an abnormal build-up of imported foodstocks.

Socree: Bank Heaff exclusion.

<sup>/</sup>b Consumption and investment figures for 1978 are not strictly comparable to earlier years because they include imports by SITC groups which were not available for earlier years.

Table 2.2: GROSS DOMESTIC PRODUCT: PRELIMINARY ESTIMATES OF OUTPUT BY SECTOR OF PRODUCTION IN 1978 (millions of Maldivier Rupees at 1978 market prices)

	29	78
	(MR million)	Percentag:
	_	
rimary Production	<u>79</u> 3 40	<u>39.7</u> 1.5
Agriculture	3	
Fishing		20.1
Noti-monetary output n.i.e. /a	36	18.1
econdary Production	12 9	<u>6.0</u> 4.5
Manufacturing <u>/b</u>	9	4.5
Construction /c	]	1.5
Public Utilities /e	•	_
ervices	208	54.3
Wholesale end retail trade	32	<u>54.3</u> 16.1
Toptism	23	11.6
Transport	24	1.2.1
Banking	1	0.5
Ren1 extate	፟፟	1.5
Government	<u>25</u>	<u>12.6</u>
roes Domestic Product	199	105.0

Including home consumption of unrecorded crop output, timber felling for boat building and fuel, smoking, salting, and drying of fish for local consumption, egg and poultry production, informal boat building, and water collection.

Source: Bank staff estimates.

<sup>&</sup>lt;u>'b</u> Mainly handicrafts.

To Including ceral quarrying.

 $<sup>\</sup>overline{/d}$  Included under Covernment.

 $\frac{1.44(t-1.1)}{1.2}$  : EALAYOU LE Provincia de causo apu prosprimentos (1.65 milliona)

		1016	<b>-</b> ·		1,971						15.1			15.11	
	темш:	udde:	ودولائلة:	<u> Çeride .</u>	1973 <u>Facilia</u>	<u> Jaluerre</u>	<u>Ornal - b</u>	<u>Fral</u>	<u> Interre</u>	S/mailt	: Imba E	PRESIDE	riwit.	: Educ	والمطالعا
en extraord Levi	2.38	∸.π	- 0.87	5_63	S.Qu	- 2.55	5.57	3.60	- 5_FL	- 3,50	6.45	2, 50	4. LL	6.51	- 2.85
marriagos stance	5.55	L.35	+ 8279	1_77	6.781	+ 15.66	lant	1.25	+ 6.19	a. ú1	L.BL	- 1.27	5_5L	8.88	÷ 4.70
ata <b>pao</b> i	-	0.04	- C.M.	-	3,400	. 0.64	-	1, 2,	- 6.55	-	0.43	- 2.9L	-	L.JE	- L.d.
Deri pe	1.35		1.25	1-68	-	4 1.69	7 35	-	F 2- 35	3.05	-	1.03	5.18	-	+ 4.30
official comunictors	-	9,66	· 16.34	-	2.36	. 1-35	-	3.46	- 6.55	-	0.00	- 5.66	olas	0.06	- 5 16
INVESTMENT TAXABLE	9.464	•	+ 2.64	1.62		4.1.67	1.26	-	+ 1.5%	41	-	1	1.57	41.14	- 4, 4
Selgon of politicans		E. Li	- 0.13	-	5.39	- 0.53	0.15	5. Li	- 0.05	2.18	9.18	•	0.22	0.43	- 1.31
Avience	5-19	5.00	2 77	7.05	1746	- 0015	3.56	5.44	+2,64	IILE2	4.74	- L.85	25.07	1.66	1.3.29
44/8035	4-13	5. 22	2 33	7.65	7716	- Olis	1.56	1	+2:64	LLE2	41	- L.ES	39.69	1.51	•

- HALLOY REQUIREMENT

Monage: Seek als a paringer.

 $\underline{\mathbf{r}_{0}} \times \mathbf{J} = \mathbf{9}, \mathbf{7}$ : COMPOSITION OF COURTS, L976-79

	1976	1975	(Hetri) 1970	e <u>Tona)</u> <u>1977</u>	1978	<u> 1979</u> (F <del>+1</del> ) mins	<u>1976</u>	<u>(10</u> Chi 1975	eesa <u>eds 7</u> 1976	<u>1977</u>	1978 1978	-' 19/9 (Cretiminary)
Exports by the STO	<u>8,952</u>	7,978	<u>7</u> 8,031	11,802	11,445	<u>12,750</u>	3,725	$\frac{\gamma_1 \delta_1 \delta_2}{2}$	<u>2,782</u>	<u>2,616</u>	2, <u>859</u>	3 <u>,36</u> 7
Dry ekip ack great skipjack Presh fish (ather) great lebsers jeland dry tich Expanse by the private sector	9,552 6,652 68 - 690	1,965 5,963 51 - - 186	1,829 8,527 15 	990 10,787 57 8	251 10,679 511 11 - 1,893	75 12,656 5 5 74 2,664	5,000 700 5 - - 200	1,670 780 0 - 80	1,370 1,020 2 1 271	020 789 6 10 	218 2,548 90 10 <u>L<sub>2</sub>243</u>	62 3,288 2 6 9 1,279
Dry eal:wd (ist Dry shork fins Touroise shell:« D)we'v whitegris (owere shells Hel coral Pish dust Come dest	273 & b - 19 46 40 70	15 3 4 62 25 75	50 8 6 - 23 -	736 20 5 - 47 -	1,566 23  43 17	1,937 20 5 - 25 69 12	100 90 80 2 6 4 1	5 10 40 2 30 4 -	20 110 140 - 1 - -	310 310 210 24 - -	670 340 50 140 20 3	850 146 86 117 12 3
Bics chips		=	<b>L</b>	•	28		-	-	-		26	
yetal	8,672 57	? <u>,3</u> 64	10.131	12,669	13,135	<u>14.795</u>	<u>0,96a</u>	24538	2,973	3,470	<u>4,099</u>	<u> </u>

Not speileble.

Sources; Contours/Sevenue Brench: Simistry of Pishcries.

Table 3.3: EXPORTS BY COUNTRY OF DESTINATION

		1978	1979 (Preliminary)				
	\$1000	Percentage of Total	<u>\$1000</u>	Percentage of Total			
Japan `	2,302	56.2	3,360	73.3			
Sri Lanka .	904	22.1	918	20.0			
Singapore	665	16.2	159	3.5			
Others	222	5.4	148	3.2			
Total	4,093	160.0	4,585	100.0			

Note: Due to rounding off, components may not edd to totals.

Source: Customs/Revenue Branch.

<sup>-</sup> NII or megligible.

Table 3.4: COMPOSITION OF TWPOQUE BY END USB, 1974.79

		<u>(Th tip</u> guadula of US Collerx)						(As percentage of total imparts)						
	1974	<u>1975</u>	1975	1977	19 <u>78</u>	1979 (Proi Industry	<u>1974</u>	1975	1976	1977	<u>1978</u>	1979 (Pref (Finery)		
Record	3,355	3,939,	$\underline{1,779}$	$\frac{3}{2},974$	2,702	<u>20مي</u> 01	<u>49.4</u>	38, 3	37,5	<u>43.6</u>	20.7	<u>47. B</u>		
Rice Wheat flows Sugar Others	1,327 760 1,517 155	1,209 851 7,470 309	917 165 230 640	1,826 604 970 544	88 540 854 1,200	2,841 996 1,858 5,898	19.5 11.2 16.5 2.2	17.9 12.8 21.8 5.9	16.8 3.8 4.7 9.8	20.0 7.8 10.6 6.0	0.7 4.3 6.5 9.2	12.9 4,5 4.8 75.6		
Other Cousiner Goods	<u>9,190</u>	<u>1,262</u>	<u>2,850</u>	3,434	R,23 <u>0</u>	<u>8,137</u>	46,8	<u> 33.5</u>	<u>52.1</u>	<u>43.4</u>	<u>60.0</u>	<u>36.9</u>		
Perroleus Products	120	<u>294</u>	<u>335</u>	<u>556</u>	<u>1,190</u>	2,409	1.8	<u> 3.0</u>	<u>6.5</u>	7.2	<u>9.1</u>	10.9		
Intermediate and capital goods	135	<u>340</u>	<u>485</u>	<u>526</u>	<u>945</u>	<u>966</u>	<u>2-0</u>	<u>5,1</u>	<u>8.7</u>	<u>7-</u> .H	<u>7.3</u>	<u>ń, 4</u>		
Papar Geneat Stord Others	و 22 110	17 18 41 270	7 179 88 269	6 50 117 351	17 136 139 657	26 162 58 717	0.3 156	0.2 0.3 0.6 4.0	0.1 2.3 1.5 4.9	0.1 0.5 1.3 3.9	0.1 1.8 1.8 5.0	0, 0 0, 7 0, 3 3, 3		
Total Emports	6 <u>, 790</u>	. <u>6</u> ,750	. <u>5,470</u> .	9,110	13,070	<u>22,,840</u>	<u>100.0</u>	<u>100.0</u>	130.0	<u>100.0</u>	108.0	100.0		

Nuclear. Thus to remoding of: components may not add to this large,

Sources; Challens/Revenue Branch-

Wil or depliable

<sup>..</sup> Mot avoilable

Table 3.5: UNIT VALUES FOR SELECTED EXPORTS AND IMPORTS, 1974-79 (US\$ per MI)

	<u> 1974</u>	<u> 1975</u>	<u>1976</u>	<u>1977</u>	1978	<u>1979</u> (JanJune)
Exports						
Dr <b>y skipj</b> ack	852	852	959	829	829	778
. Fresh skipjack	151	146	155	163	238	263
Dry salred fish	368	331	327	413	430	425
Dry shark fine	3,980	4,102	13,221	15,423	13,974	10,604
Tortoise shells	1.4,838	9,712	21,426	34,299	24,334	17,336
<u>lmports</u>						
Mice	381	308	169	122	342	216
Wheat flour	298	290	164	193	153	21.5
Sugar	552	241	395	294	240	260

Source: Customs/Revenue Branch.

 $\frac{\text{TabJ} + 3.6}{2.80}: \quad \begin{array}{c} \text{PRECE AND QUANTUM INDICES FOR SELECTED FIFORTS} \\ \text{AND IMPOUTS, } 1974-76 \\ \text{(1978 - 100)} \end{array}$ 

Empowers	<u>2574</u>	<u> 1975</u>	1975	1977	<u>1978</u>
Dry Skipjack Quaeton Price	1,41,2,4 153,0	781.3 102.0	640,2 103.0	394.4 100.0	100.0 100.0
Fresh Skipjack Quantum Prica	ñ3.⊖ 63.û	38,0 61,3	60.5 68.1	102.0 68.9	100.0 500.0
Try Salted Fish Quantur Price	17.4 86.4	1.40 77.19	4.0 75.8	48.3 95.8	100.0 190.5
Dry Shark Fins Quantum Prize	32.0 27.9	12.0 51.6	32.0 96.5	80.0 112.8	120.0 100.0
Tortoine ehalla Quantum Price	300.0 60.8	70D,U 41.0	900.0 69.6	300.0 137.5	200.0 100.0
Total Exports Quantum Frice	53.9 56.2	81.4 63.7	78.5 72.3	97.1 90.3	100.0 100.0
Imports					
Mice Quancom Price	1,351.6 111.4	1,519.& 90.1	2,103.9 49.4	5,817.7. 35.7	105.0 1,00.0
Wheat flowe Quantum Price	69.6 1.94.8	ano 189.5	27,2 107,2	89.5 125.]	106.0 180.8
Sugar Quanzuo Price	56.9 230.0	171.5 105.4	18.4 164.6	92.7 122.5	102.0 100.0
Essential 700d Imports Quantum Price	107.7 209.9	17 s. 5 133-1	94.6 196.5	288.6 119.8	190.0 190-0

 $\xi\sigma(\underline{\underline{\underline{m}}}_{0,\underline{\underline{m}}})=Contous/Revenue Bounch.$ 

Table 3.7: IMPORTS FROM OECD MEMBER COUNTRIES, 1976-78 (USS'000 f.a.h.)

	<u> 1976</u>	<u>1977</u>	<u>1978</u>
Јерел	960	4,365	3,339
Anstralia	590	177	
European Economic Community of which:	2,390	1,724	1,067
United Kingdom	92G	293	554
Italy	790	163	86
Germany	475	1,108	288
Total <u>/a</u>	3,850	6,266	4,406

<sup>..</sup> Not available.

Source: OECD.

<sup>/</sup>a Refers to total ORCD linked.

table 3.8: FLON OF OFFICIAL DEVELOPMENT ASSISTANCE TO
THE MALDIVES, 1974=77
(US\$ Million)

	1974	<u>1975</u>	1976	<u> 1977</u>	1978
ODA commitments from all sources	D.50	3.69	10.55	8.80	2.62 <u>/a</u>
or welca:					
Grants	ď.		0.68	7.51	0,63
Recorded net flow of resources from all sources	0.98	5.43	5.68	3.89	8.40
Recorded net flow of resources					
From DAC countries and multilateral agencies $\sqrt{b}$	0.98	5.23	2.84	3.75	6.30
Wet feeelpts of GDA	0.61	3.25	4.30	2.39	6.88
of which:					
DAC member countries Multilateral agencies <u>/b</u> Orhers <u>/c</u>			0.57 0.89 2.84		3.74 1.04 2.10
Memorandum ftem:					
Total official flow of resources from OPEC countries and Arab/OPEC multilateral institutions	o	0.20	2.84	0.39	2.35 <u>/в</u>

<sup>..</sup> Not avadlable.

Source: OECD Development Cooperation Reviews, 1975-79.

 $<sup>\</sup>frac{/a}{Table}$  Appears to exclude \$11.23 million commitments from GPEC reported in Table 6.10 of the GECD Development Cooperation Review of 1979.

<sup>/</sup>b Including Arab and OPEC financial agencies.

 $<sup>\</sup>overline{f_{\overline{c}}}$  Bilateral aid from OPEC countries.

Table 3.9: IN AGENCIES  $\frac{f_{\rm M}}{f_{\rm M}}$  processes

			•						
		<u> </u>		9 Lemment		Johen	Болови		
Sector/dulled se	1977	197 <b>H</b>	979	<u>1950</u>	भन्न	<del>Магин</del>	ALCOUNT		
<u> Sculth</u>									
WHO - Hamilto Berwicz	-	::::. <b>:</b>	1GC.7	23 17	171.7	Libye			
Communical a Magazea - Bossman wood 1/3	-	15.3	33.4	35.46	59.1				
- ocpansy and to	-	-A	46.5	46.0	=				
0990 - Auxiliary Realph	54.8	Er Le	45.9/ <u>b</u>	21 A	(Ou. 1				
HMTTRE - Brogeros/A	101.9	145.1	$64.5^{4}$	2.51.6	95.5	UE	(Included in		
UMCOM - Health Improvement		-	:0048	833.5	634.8		UHIGER)		
Water									
Table - See 8	_	54.0	65. y	60.1	58.1	rika	5,0000,0		
- 09 i cV	34,4	21.4	65.4 77.4∕h	77.7	40.0	E PAT	A read of		
usanov <sup>i d</sup>									
UKUN' - 'Tejnvestalit (NHS)		91 1	av. 0						
	•	1	, 0		_				
Elwast un			15.						
UNICER : UNI	99. 6		257.5 <sup>7</sup> 2		189.5	UM.	(included		
PCP - Becaloured of Karation (myssp)	194.2	242.5	39971 39972	207.5 179.0	25.0	Trat	in UNICEP)		
	4	#·IA. I	21172	119,3	104.6	pa			
<u>OLILIME</u>									
Title - Teadering	-		63.0	_	_				
C1911 Avietien									
UNDP Capil Addation (TCAS)	45.1	170.2	a1506/2	169.1	91.5	Arra' Frend	a 21.000.0		
<u>lnymercki und felmpormunischiche</u> ያጭያ – Ralie Communischiche (ፕፒሀ)	14 4								
2800 - 27	10.0	-	-			- Abu Bhahi - Arabealig	2,000,000		
<del></del>	• •	• •				- Материца Ларап			
						JK			
Egilonitume 1910 - Plant Proposicion (PAG)	_	1.5	-						
FAC FOR	-	1.7	·	-	-				
	• •	• •		••	1.1				
<u>  Yeahing                                    </u>			$\frac{1}{2}$						
(games nogative absorbers 1967) comes = secondation provertible = 2.000	••	-	33, 1'=-	2007.3	99.3		1.1		
GEOR Kachaniyacion (EAD)	9.0	_	<u>-</u> ,	_	_	THE MILE			
							r =		
<u> Planados</u> - Mani - Stolistica Hapartmont (CTCC)			. 76						
- Government Proporting (Smearting	-	-	13.3 <mark>/M</mark> 13.0/Ž	61,6 64,9	79.8 47.6	Downit Fo	M		
ogoty: TDA)	_	_	-3-3 —	P4.7	-11.7				
Adam - Revolution: Planting					1-				
<u>Entopragad</u> From 1 Development									
BROAP - Pilnt Project	_		44.0	_	_		•		
4			- 7. 8	_	_				

hal or negligible Well evening bid

 $I_B$  -Facilable, function assistance from the World Book Group,  $I_B^{\rm in}$  -Actual function, and all Mole Office Expenses.  $I_B^{\rm in}$  -Tooluded in Toolic above,

Hotel: A large twitter of training tragmare and consultantion in all sectors are additionally provided by UNDP to raidive midst their various regions; projects. These have not been included,

Source: William Resistant News(opinent Programme, Hole, Recenter 1979,

- 140 -

Table 4.1.: EXTERNAL FURLIC SERT OUTSTANDING (MOLUDING JUDISGURGED AS CM DEG. 3), 1873 CHAI REPAYABLE IN EGRETON CURRENCY AND GDDDS I'M THRUSANDS OF S.R. UDULARS)

YUSE OF PSPOTTOS	<b>ს</b> 6 6 6	0 0 1 5 1 4 N	ifi [ N G ;	им двиб	A R 3
suborina convint Asai de calofius		UNDISO/REED:	·		XTEREST
MULTILATERAL LOAMS	-	5,200	8.200	;· -	-
CACC SAECING THRO TOTAL MULTILATERAL LOAMS	. 000 400	1,400 1,600	2,300 8,500	<del>-</del> 	-
BILATERAL LOAMS					_
RUWASI GAUDT ARABIA	2,689 1,142	2,823 8,110	5,492 8,257	<del>-</del>	7
UNITED ARAB EMIRATES (UNAL Bilanigan Loans	1.511 5.317	1.G63 12,596	3,174 17,929	<del>-</del> -	<b>B</b> 15
YO'AC CATERNAC POWLET SEST		17,196	71,490	-	15.

Aggress [4] ggress Aggress A

Source: External Debt Division, Economic Analysis & Projections Department, ISRD, March 1980.

<sup>(2)</sup> DERT OUTSTANDING INCLUDES PRINCIPAL IN ARREARS BUT EXCLUDES INTEREST IN ARREARS.

Table 4.2: \$439.00 Payments, corresponds, dispursaments and outstanding amounts of external placing debt.

PROJECTIONS BASED ON SEST CONSTRUCTED CONTINUES INVESTIGATION AS OF SEC. 31, 1979

DEST REPROPELL IN INFELIEN CORRENCY AND GODDS

(IN THOUSANDS OF 9.5, DOI: ARS)

			-1000	ΛL					
YEAR :	DUB: DUTST BEGINNING		- RAYS	YCLIDY	IS DIE	гыз не	RIDG :	DT4ER	CHANGES <sup>*</sup>
:	01520#960 : CNLY :	INCLUDING :	COMMIT- : MENTS :	DISEURSE- : MENTS :	5 F R V I :	у раун		CAMBEL - :	ANJOST -
:	:	-		:	PRENCEPAL :	INTEREST :	TOTA: :		
:	(0):	(2) :	(3) :		(5) .	(6) ·	(7) :	(a)	(9)
1976	_	-	6, 142	101	_	_		•	90
1977	113.1	0,000	500	1,648	_	2.4	2.1	_	• 4a
luka	1.056	8,4012	13,755	2,102	-	9.9	44	-	42ā
1979	3.90E	12,542	4,000	2,308		78	79	-	119
1980	6.227	20,420							_
			190, COLEONS	NG FEGURES	ARE PROMESTES	, , , <u>, , , , , , , , , , , , , , , , </u>			
1990	€.227	23,423	=	11,249	-	167	!63		_
1991	7.475	23, 128	-	5,514	35	312	347	_	
·9a2	23.055	23,388	-		Cris	386	1,685		-
'Daa	22,639	22,600	•	_	1,945	064	1.793	_	2
1982	21.342	21,342	-	-	1,423	356	1,779		
1995	19,919	19,949	••	_	1,453	928	1.792	_	i
1986	18.457	18,457	-	-	1,463	200	1.762		_ '
1987	16,994	16,744		-	1,453	272	1,735	_	1
1986	16,500	າສຸສິນຊີ	•	-	:,450	244	1,707	_	1
1969	14.070	*4,070	_	-	1,079	2 16	1,695		i
1990	12.592	12,500	-		1,495	:87	1,682		2
1991	11,099	11. 099	-	-	1,495	- 5:1	1.070	-	_
1690	9 <sub>1</sub> F04	9.664	_	-	1,230	131	1,554	-	2
1888	9,273	8.378	=	•	1.233	113	1,348		- 1
<b>*224</b>	7,439	7,109		-	1.193	\$10	5,283	-	-
(Mala	5,946	5,946	=	-	1, 150	71	1,224	_	Ī
1998	a,vye	4,794	_	_	1. 117	49	1,166	••	-
1997	3,677	3,67.7	•	_	716	30	74.6	=	=
1998	2,431	2.961	-	_	6.5	22	B7	=	
1999	2.89G	2,956	-	-	64	22	86		-

Source: External Debt Division, Froncmic Analysis & Projections Department, Impo, March 1980.

<sup>4</sup> THIS COLUMN SHOWS THE AMOUNT OF ARTHMOTO (MEMILANCE IN THE ANOUNT OUTSTANDING ENGLICING HADISSURGED FROM ONE YEAR TO THE MEXT. THE MUST COMMON CAUSES OF IMBAHANCES ARE CHANGES THE EXCHANGE MAILS AND TRANSFER OF GERTA THUS ONE DAISSONY TO ANOTHER IN THE TABLE.

Table 5.1: SUMMARY OF BUIGETARY OFERATIONS, 1976-79 (Maldivien Rupeos '000)

	<u> 1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	[1978] (Revised)	<u>1979</u> (Estimate)
KKAKMIE	<u>18,733</u>	22,973	17,171	20,,729	1 <u>1,761</u>	16,472
Takes	5,493	5,005	457	140	3,128	7,784
of <b>ա</b> հվակ։						
Cus tooks	5,324	5,005	457	140	2,235	5.264
Others	169		-	-	893	2,520
Not receipts from public enterprises	11,827	17,333	<u>15,928</u>	<u>19,818</u>	7,735	<u>8,174</u>
of which:		1 824		0.730	9 245	3 170
State Trading Organization	11,103	430	<u>ეთ,4თე</u>	8,729	1,415	2,170
Maldive Shipping Limited	_	14,662	4,770	7,417	3,537	, <del>-</del>
Electricity Department	_	-	_	_	_	1,061 187
Telecommunications Repartment		_	 	_	631	
Other receipts	1,413	635	786	771.	898	514
KKPERDITURE	22,12/	27,368	35,683	38;389	41,178	<u>39,504</u>
Non-developmental.	9,895	9,703	9,787	9 <u>.339</u>	15,332	17,466
Internal Security	2,010	2,225	2,969	2,322	2,641	4,283
General Administration	<b>5,28</b> 5	5,613	5,084	5,549	5,492	7,248
Debt Servicing	L-	-	_	_	3,046	302
Others	2,600	1,863	1,734	1,46B	3,953	5,633
Developmental Expenditure	12,232	17 <u>.68</u> 2	<u> 25,896</u>	29.050	<u>25,846</u>	<u>22,038</u>
Agriculture and Fisheries	574	388	696	802	545	976
Economic Services	5,662	5,747	2,808	2,046	7,361	916
Transport and Communication	1,759	1,885	2705	11,068	3,300	5,068
Education	1,190	1,289	1,504	1,660	2,415	3,201
18e:a1 + 11	1,282	1,261	1,363	1,559	2,439	3,249
Others	1,765	7₊∐7	16,620	11,115	9,806	8,626
Budgetsry Surplus or Deficit(-) financed by:	- <u>3,394</u>	- <u>4,415</u>	~ <u>18,512</u>	- <u>1.7 . 660</u>	- <u>29,417</u>	- <u>23,032</u>
Sumplus of past years	3,394	4,415	18,512	9,248	6,175	
External assistance (grantus)	·· , ·· -	- <del></del>	, <b></b>	8,412	16,725	12,392
Other	_	_	_	- <b>,</b>	1,260	1,125
Deficit financing	_	_	_	_	5,257	9,515
						- 1

<sup>-</sup> Nal or negligable

<sup>«</sup>Source: Audit Office.

Table 5.2: SELECTED SOURCES OF BUDGETARY REVENUE, 1978-79

	Maldivien Rupoes 1000		ntage otal	
1978	1979	197B	1979	
Revised	<u>Extimate</u>	<u>Revised</u>	<u>Estimate</u>	
3.0,721	16,472	100.0	100.0	
1,004	4.100	9,4	24.9	
1,230	1,165	11.5	7.1	
446	558	4.2	3.4	
_	157	_	1.0	
_	786	_	4.8	
_	161	_	1.0	
44	46	0.4	0.3	
261	498	2.4	3.0	
1,203	361	11,2	2.2	
894	2,693	7.8	16.3	
	•			
5,699	5,256	53,2	31.9	
1 415	2.1 <b>7</b> 0	13.2	13.2	
_	_,		13.5	
-	201	23.0	1.2	
_		_	6.4	
331		7 7	7.2	
	_	=	2.7	
250	166	2.3	1.1	
	Revised  10,721  1,004 1,230 446	Revised Extinate  10,721 16,472  1,004 4,100 1,230 1,165 446 558 - 157 - 766 - 161 44 46 261 498 1,203 361 834 2,693  5,699 5,256  1,415 2,170 3,537 - 201 - 1,061 331 1,194 166 444	Revised         Extimate         Revised           10,721         16,472         100.0           1,004         4,100         9,4           1,230         1,165         11.5           446         558         4.2           -         786         -           -         786         -           -         46         0.4           261         498         2.4           1,203         361         11.2           834         2,693         7.8           5,699         5,256         53.2           1,415         2,170         13.2           3,537         33.0           -         201         -           -         1,061         -           331         1,194         3.3           166         444         1.5	

<sup>-</sup> Mil or megligible

Source: Audit Office.

SUBJECT/RY EXPONDITURES OF THE COVERNERY RE SPENDENC AUCHORITY, 1977-79

(Ng18), stan Repres  $^{\rm 1}$  800).

	1977 *eteajr	1920 <u>Kerilani</u>	1979 19 <u>Entlante</u>
Office of the President	2,271.7	6,202.7	1,061.1
Official Residence of the President	10.101.5	4,200.0	3,410.6
Cirisan's Emplie	1:9.5	725.2	198.2
Department of Minesus	119.5	3,105.5	154.7
TMP, World Bets, 100, ABS Unit Secritor and Seligious Dimensions Dimesion Inches: Dialogs Customs	- 1,386.8 10.8 212.0	1,048.6 1,418.4 28.0 243.0	2,331.9 1,889.3 43.9 370.2
210 Aperints Divinion Fort Cumilistic 10' Fability Wisks Depositions Vocacional Crassing Contes	33.4 334.5	11:.1	016.1 582,9 174.9
Repartment of Intoceation and Bruadoxaming	-	45.7	57.3
Racin Kalidoma Er Majdimes public biboacy	2 <u>11</u> .5 5_904.5 76.5	7.0 1,483.5 -	559.i 550.h 21.f
Department of Totales, and Money, Lemmestreet	27.2	45.3	55.0
Tylecommonoshicos Casatroanh	2,361	275.9	-
Amdia Unitic	120.4	176.4	124.5
Hebicons Clarmana Agentay	-	٤.5	71.1
Antomay Gameral's Control	114.1	119.6	150.7
Ritistry of Jastice	663, X	252.1	350.C
PigSerry of Schild Samery	2,552.8	2,840.7	2,629.5
Minterry or Home Aditains	1,465. 5	1,058.9	1,312.7
Pomo Hirtiam	145.7	170.3	200.3
Murierry of Providedal Affairs	66.9	3,427.2	173.9
Homoem Begional Childe Budilesu Regional Collec	955.2 727.1	540.5 721.1	763.4 Kan.5
Almiatry of faternal Affairs	475.1	0.060	157,5
Prespect Office Presented Mission to the United Horists	700 <b>4</b> -	76,37 209.9	17,9 220,0
dinistry of Apple-Brane	23014	229.4	260.5
Homistry of Disheross	36317	2 . تـــذ	199.5
Minisory of Ymanepood	ЭJĊК.	\$25.5	158.ĝ
Airport Cotics Buiols Picypot Continection Colt Buollo Vares Espertrett - excesses on	5 0100 0 <sub>1</sub> 030 , S	901.6 52,0	1,181.6 161,3
Solute Algoria	2,186.2	4,967.5	
Rindbody of Stipping	14.5	84.7	<b>a1.</b> 9
Ministry of Blucation	350.7	329,5	'н]_ч
Majordiya Behwel Aminiyya Sehbul Mantesudi Sehbul Mudanim, ama	487,1 462,7 287,8 2,488.8	441,3 417,5 299,3 1,139,4	171,6 205.1 : 586,8 -
Kimiacry of Heelth	275.0	346.B	282.7
Public Healer Compositoble Titarres Maioria Government Hospital Alited Mealth Birvices Training Ground Hatter and Cantostton Authority	106.3 156,9 73.3 405.1 52.5 30.8	113.0 170.n 93.8 035.1 60.6 34.3	\$08.0 201.0 114.0 1,170.2 50.5 138.6
RIAL	JN,385.7	41,177,6	30.504.0

Here: the so counding off, exagorence may nor wid up to cotals.

Source: Minimary of Planner.

Table 7.1: PROMOGNION, EXPORTS AND LOTAL CONSIDERTION OF FISH, 1967-78 (\*000 M tons)

	<u> 1967</u>	<u> 1968</u>	<u>1969</u>	<u>197</u> 0	1971	<u>1972</u>	1973	1974	<u>1975</u>	<u>1976</u>	<u>1977</u>	1978
LANDINGS												
Skipjack Yellowfin	19.5 <u>/a</u> -	19.1 <u>/a</u>	20.2 <u>fa</u> -	27. <b>0</b> 2.1	29.7 1.4	17.5 2.1	18.8 5.6	23.1 4.3	14.8 3.8	19.8 4.6	16.9 3.9	16.5 3.8
Other Tuns Related Species	3.6	3.5	3.5	3.8	3.3	1,6	7.2	6,5	4.4	3.9	3,3	3.2
Reef and Dottom Fish				<u> </u>	1.0	2,3	_2,4	2.5	<u> 2,2</u> .	<u>1.7</u>	<u>2.3</u>	<u> 2.3</u>
Total Landings	23, J	22.6	23,7	34.5	35.4	25.5	34.0	35.4	25.2	31.0	26.4	25.8
<u> 15390 rts</u>												
"Maldive Tish" <u>/b</u>	16.5	16.4	18.4	Z4.9	27.7	19.3	15.9	17.7	9.8	8.0	4.9	1.2
Solted Vish $\underline{I_{\mathbf{b}}} \underline{I_{\mathbf{b}}}$		_	_	-	_	-	-	.8	, 1	-1	2.3	4.7
Fresh ⊬jgh: Koko ICP Maldives Nippon	- - -	-  	- - -	 - 	- - 	2.0  T	4,4 - -	4.5	3.7 _ 	8.0 .7 	7.7 2.9 	7.4 1.8 2.2
Total Exports	16,6	16.4	18.4	24.9	27.7	21.5	20.3	23,0	1.5 . 6	26.8	18.1	17.3
Available for Local Consumption and Stocks	6.5	<b>6</b> .2	5.3	9.6	7.7	4.2	13.7	<u>2</u> 2,4	9.6	14.2	8.3	**************************************
Consimption per capita (kg/capita/year)	63	58	48	94	65	94	109	96	72	1D4	58	58

Sources: Ministry of Misheries: GOPA Reports.

<sup>-</sup> Nil or negligible

<sup>/</sup>A Encludes yellowfin.

<sup>/</sup>b Fresh IIsh equivalent.

 $<sup>\</sup>sqrt{c}$  No data available before 1974.

Table 7.2: FISH LANDINGS, CLASSIFIED BY ATOLL, 1977-78 (in metric tors)

Atoli	<u> 1977</u>	<u> 1978</u>
Raa Alife	2,100	2,700
Haa Dhaalu	1,000	900
Shaviyani	1,100	900
Noonu	1,100	800
Эна	2,500	2,900
Вад	2,500	2,600
Lhaviyani	1,100	2,200
Kaafu <u>/a</u>	1,100	- 900
Alifu	1,400	1,600
Vaavu	400	400
Меети	1,300	1,000
Faafu	306	· 300
Dhealu	700	700
Thas	1,800	1,400
Laamu	1,700	1,700
Gasi Alif	2,300	1,500
Ceafu Dhaalu	1,430	2,100
Gnaviyani	200	200
Seenu	<u>1,000</u>	1,000
f0TAL	26,400	25,800

 $<sup>\</sup>underline{/a}$  Including Maie.

Scurce: Ministry of Fisheries.

Table 7.1: AVERAGE MUMBER OF FISHING DAYS FER ARCLL, 1974-78, AND STORME OF TERSELS REGISTRAND BY ARCLL AT MID-1979

		. of Days (1000)		. of temistered		Ammual Average No. of Fishing Pays per Vessel		
Atoll	Trolling Vagoela	Fols and Line Vessels	Trolling Venuels	Fole and Line Vencels (pectum(sad)	Trolling Venuels	Pole god Line Vessels /a		
Hem Alify (	6.0	4.1	204	168 <b>(39</b> )	19	26		
Has Chaslu	. 11.3	3.9	326	125 (24)	35	21		
Sbeviyasi	23.6	3.6	326	79 (17)	72	46		
Жеспш .	6.4	9.6	379	200 ( <u>2</u> 5)	30	48		
Ras	13.7	19.7	286	137 (57)	48 .	149		
Ъса	7.0	12.0	162	103 (60)	78	117		
Lhaviyani	.3	13.6	. <b>65</b>	†4 (49)	5	186		
Jaatu 🕭	3.7	14.3	246	393 (252)	13	43		
Altfu	15.3	4.6	.305	502 (16)	5Ġ	45		
Vaavu	1.4	4.1	26	92 (14)	46	128		
Мееви	1.2	8.7	55	ВС (26)	22	. 145		
Faivu	1.6	3.4	60	51 [ <del>9</del> )	27	()		
Dhaeld	6.2	4.7	94	57 (20)	66	82		
Thee	3.5	11.€	154	131 (49)	29	Be-		
Launu	1.3	9.9	116	. 103 (43)	12	94		
Coof 4112	2.9	14.4	148	160 (38)	315	70		
Coaft Chealu	2.6	10.7	215	177 (46)	1.3	60		
Gooviyasi	5,B	<b>d.1</b>	7L	29 (1)	82	3		
Seeppo	9.6	5.4	411	216 (18)	23	25		
TOTAL	123.1	158.6	3,480	2,339 (695)	50	F2		

Figure is average of eachemized and man-mechanized versule and does not take into account the number of rescels used for non-fishery purposes, particularly in the Nole word. Marketing problems, particularly of sofling rescels, and fuel problems of machanized rescels, greatly reduce the number of fishing days.

Sagree: Maistry of Tisheries.

 $<sup>\</sup>underline{fb}$  - Recludes Male.

Table f, h: PURCHASUS OF PISH BY MUREICX COMMUNICA, 1974-79 AND MURLISO MAX RUGINAS ON FISHERMEN

	<u>16</u> 74	<u> 1,975</u>	19/6	<u> 1977</u>	<u> 1978</u>	<u>1979</u> (Ար Խո Ռոջ, Ս. 1979)	
Value (Metric boos)						·	
Noko (Halilung) Halilung Mippon 107 (Hangkok) Katsi	4,445 - - 4,484	5,860 - - - 0,863	9,0)8 - 710 8,728	7,690 332 3,917 10,942	7,360 2,211 1,778 11,349	5,256 1,869 38 7,263	
<u>Yalus</u> (Np. 1000)							
Hoko (Bnidiyes) Maldives Mippon INF (Banglask) Tecal	2,140  - 2,140	0,113 - - 3,113	5,31H - 492 5,819	4,893 228 1,929 7,050	3,966 3,754 2,166 6,888	4,770 1,666 33 6,46¥	
<u>Value</u> ( CS\$ 'OBD)							
Hoion (Maldiyes) Maldives Mippon ICF (Jangkok) Total	593 - - - 545	792 - - 712	1,353 - 225 1,478	1,745 58 491 1,796	1.517 -446 -29) 2,260	1,2]4 424 8 1,646	
Average Unic Value US\$ per con <u>Memorandum</u> frem <u>Tax berde</u> n:	122	135	169	164	) <b>9</b> 9	227	
4. Vayment received by fisherous (MR 1000)	2,140	3,113	5,930	7,050	<b>8,88</b> 0	6,469	
B. Payasant Fishermen would have received at free market cochange valor (MR 'DOR)	3,624	4,354	12,912	13,787	20,069	12,343	
0. Effective can burden (MR $^{+}000$ )(B $=$ A) Offective can burden se I of C	1,484 40,9	1,441 31.6	7,292 55.1	8,737 55.9	11,189 55.7	5,876 *** 47.6	
Fige sorther eachenge yale (Value of US\$ 1.00 in Haldivian papers)	6.65	5.75	8.75	8.80	8.88	7, 50	

Sourge: Ministry of Misherles.

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Table 7.5: DISTRIBUTION OF CULTIVATED AREA IN THE ATOLLS (Acres)

	<del>-</del>	Inhabited		បា	ւկդիքի մեգժ			Total	
	<del>Vp-</del>	J₄pw−		<del>пр–</del>	Low-		Up-	Low-	
	land	land	Total	<u>land</u>	<u>land</u>	<u>Total</u>	land	<u> 1and</u>	<u>Total</u>
Haa Alifu	580	o	580	320	0	320	900	0	900
Haa Phaalu	629	0	629	222	Ð	222	85‡	O	651
Shaviyani	304	0	304	299	0	299	603	0 ·	6 <b>0</b> 3
Noonu	237	Ó	237	49	0	49	286	D	286
Raa	280	0	280	299	0	299	579	Ð	579
Baa	25	0	25	166	O	166	1.91	0	191
Lhaviyani	17	0	17	106	٥	106	123	0	123
Kasfu	46	1	47	_	_	_	46	1	47
Al1fu	125	Q	125	50	5	55	175	۶	180
Vaavo		Q.	0	0	0	0	0	٥	- 0
Мевяц	7	Ú	1	-	_	_	1	Ð	1
<b>T</b> aafu	30	0-	30	_	_	_	30	Ð	30
Dhaalu	53	Ü	53	_	_	_	53	ð	53
Thaa	75	60	135	10	0	10	85	60	145
Laamu	708	I55	363	t75	35	<b>Z</b> 10	863	190	1,073
Gamf Alif	360	34	394	250	0	250	610	34	644
Gamfo Dhaalo	220	45	265	325	130	455	54 <b>5</b>	175	720
Gnaviyani	1.50	50	260	_	_	-	150	50	200
Seemu	160	83	243	-	-	_	160	83	243
TOTAL	4,000	428	4,428	2,271	170	2,441	6,271	- 598	6,869

Source: Report to the Government of Maldives, Agriculture Survey and Crop Production, W. T. Butany, F&O, Rome, 1974.

	Number	of Ielands	Cultivable Land Area		
Area of Cultivable Land on Island	Notifier	Percentage	Acres	<u>Percentago</u>	
Tahabited Islands with			·		
Loss than 10 acres	29	27.5	69	1.5	
10 - 24 acres	2.7	25.7	525	J.n., 9	
25 - 49 acres	1.9	18.1	573	$3.2 \cdot 9$	
50 - 74 actes	24	13.3	890	18.1	
75 - 99 Annes	ŝ	2.9	558	12.6	
100 or mere ocies	13	12.4	7, 904	<u>.43.0</u>	
Subtotal.	3 <u>13</u> 105	200,5	4,428	<u>195, ຄ</u>	
Uniumabited Talends with		•			
Less than 10 screa	S	5.3	27	1.1	
10 - 24 mores	18	35, . 6	299	32.2	
75 - 49 acres	<u> 14</u>	24.6	429	17.6	
50 ~ 74 acres	13	22.3	729	29.9	
75 - 99 acres	3	5.3	332	13.6	
100 or more acres	<u>4</u> 57	7.C	62.5	<u>25,6</u> 100.0	
Subtagal	57	100.0	2,441	100.0	
Total Inhabited and Uninhabited islands with					
Lesa than 10 acres	34	21.0	95	1.4	
10 - 24 acres	45	27.8	824	12.0	
25 - 49 acres	33	20.4	3,002	14.6	
50 - 74 acres	27	16.7	1,529	22.3	
75 - 99 acres	6	3.7	<b>8</b> 90	13.0	
100 or more acres	17	10.5	2,529	. 36.8	
TOTAL	162	100.0	6,869	100.0	

Note: Due to rounding off, components may not add to totals.

Source: Report to the Covermount of Maldives, Agriculture Survey and Crop Production, W. T. Butany, FAO, Rome, 1974.

F

Pable 7.7: AGRICULTURAL PRODUCTION, 1972-78 (actvic tone)

Сторя	1972	1973	<u>1974</u>	<u> 1975</u>	<u> 1976</u>	<u> 1977</u> -	<u> 1978</u>
Decompt (No. of puts)	4.819.853	6,281,616	5,623,568	10,735,633	7,138,885	13,266,980	8,542,054
Finger millet	19,3938	693,4936	623,7257	1,731.6543	66.3152	35.7900	18,861
Arecanute	0,4129	0.8562	3.4776	2,1926	141.0901	). <b>8461</b>	π,516
Дапали Папали	14,270	_	_	-	_	_	_
Malze	0.3589	3,8788	29.9975	46.0526	13.8963	12.5620	7.774
Најата	4.0599	0.1824	0.0190	0.4043	0.00426	_	-
Sunghan	0.2432	0,5458	3.3288	1.6848	0.6103	0.2142	_
Tralian millet	3,2609	68,8734	165,0580	311,9397	63.7723	53.0181	0.036
Сананга	1.1860	13,7794	9.1671	15.7265	4.0613	5.5219	5.136
Colucasia	184,2713	529.3739	604.6610	925.7896	1,210.9122	665.3676	358.026
Alogasia	. 9.7958	38.5810	67.6435	77.7827	53,9385	45.2310	16.283
Sweet potato	ekve.o	54,3698	162.0014	118.4739	24.9479	26,3007	1.425
Cnion	9.6370	0.7005	0.7290	21.9259	0.8481	6.5306	1.233
Chillies	ŭ. 2963	318103	0.77%	1,9008	2.9818	2.7421	2,409
Ura (Common willer)	_				0,0068	-	-

<sup>-</sup> Mil or aegligible

<u>Source:</u> Ministry of Agriculture.

Table 7.8: LESSYES OF UNOCCUPIED ISLANUS, CLASSIFIED BY AFOLD OF RESTRENCE, 1979

	No. af	No. of	No.	of Islands	Leased to Resi	dents of:	ielands Leased To Male Residents
Name of	∏noccupied	Unlessed	Same	Мађе	Other Atoll	Covernment	as % of Total
Atoll .	Talands	Islands	Atoll	Teland	Except Male	Agency	<u>Islands Leased</u>
Hee Alifu	24	5	L1	8	_	<b>-</b>	42.1
Haa Dh <b>aal</b> u	20	4	7	9	_	_	5613
Shaviyani	40	y	18	1.3	2	_	39,4
Νοφόφ	62	าล	26	lø.	2	_	36.4
R <sub>3B</sub>	74	12	39	20	1	2	32.3
Ваа	67	5	29	32	_	1	51.6
Lhaviyani	57	10	26	14	_	7	29.8
Kapfu	89	26	4	44	_	15	69.8
Alifu	61	7	34	18	-	2	33.3
Vanvu	14	6	3	3	_	2	37.5
Meemu	24	2	16	4	_	2	18.2
Paafu	21	9	6	Ą	1	1	33.3
Phaalu	49	4	26	15	-	4	33.3
Thea	<b>5</b> 5	5	31	19	_	_	38.0
Laumi	70	16	31	21	2	_	38.9
Gamf Alif	77	1.2	35	23	7	_	35.4
Gamfo Dh <b>g</b> alo	148	50	60	34	2	2	34.7
Gnaviyani	_	-	-	-	_	_	_
Seenu	33	4	18	10	-	1	34.5
TOTAL	985	202	420	307	17	39	39.2

Scurce: Ministry of Agriculture, July 1979.

<sup>-</sup> Nil or negligible

Table 7.9: CULTIVABLE AREA, FISH LANDINGS AND INDICATIVE INCOME DISTRIBUTION FROM FISHING BY ATRILS IN 1977/78

	Cultivable Area per Head of Population (acres)/a	Pish Landings per Head of <u>Population</u> (kgs) <u>/b</u>	Indicative Incomes  per Head from  Fishing  (MR)/c
Haa Alifu	0.10	279	223
Nan Dhaalu	0.09	9f.	77
Shaviyani	0.10	157	126
Noosu	0.05	151	121
Rae	0.07	· 348	278
Baut	0.03	469	375
Lhaviyani	0.02	380	304
Kaafu	0,01	240	192
Alifu	0.63	241	193
<sup>y</sup> aavu	_	371	297
Meewu	_	371	297
feafu	0.02	151	121
Dhaale	0.02	233	186
Thae	0.02	257	206
Lsamu	0.28	279	223
Gaaf Ailf	0.13	382	<b>3</b> 06
Caafu Dhaslu	0.09	227	182
Gnaviyani	0.05	48	38
Seetu	O.D2	7),	57
All Atolis except Male	0.06	230	184

Nil or negligible

Sources: Report to the Government of Maldiwes, Agriculture Survey and Grop Production, W. T. Mutany, FAO, Rome, 1974; Ministry of Fisheries; Census, 1977; Bark staff estimates.

<sup>/</sup>a UNDS estimates,

 $<sup>\</sup>overline{/h}$  Average fish landings in 1977/78.

 $<sup>\</sup>overline{fc}$  Fish landings valued at the 1978 average realized price of MR 0.60 per kg.

Table 7.10: RENTS RECEIVED FROM UNOCCUPIED ISLANDS, 1979 (Maldivian Rupers)

<u>Atoll</u>	Rusher of Islands	Total Assuml <u>Rent Received</u>	Average Annual Rent	Highest Rent Received	Lovest /a Rent Received
Hee Alifo	24	7,814.0	325.6	2,440.5	2.0
Hae Dheelu	20	7,414.5	370.7	2,648.0	2.0
Shawiyani	40	10,379.5	259.5	1,486.0	0.5
Noonu	62	13,425.0	216.5	1,577.0	1.5
Ran	74	11,166.0	150.9	2,157.0	1.0
Bas	67	15,151.0	226.1	1,259,0	2.0
Lhaviyavi	. 57	14,111.0	247.8	2,293.0	1.5
Keafu	89	6,615.5	74.3	1,776.0	2.0
Alifu	61	6,288.5	103.1	1,929.5	2.0
Vaavu	14	1,050.5	75,0	341.0	2.0
Meenu	24	5,772.5	240,5	2,279.0	0.5
Feefo	21	1,935.0	92.1	1,477.0	2,0
Dwalu	49	9,605.0	196.0	1,670.0	2.0
The-a	58	21,589.5	392.5	4,610.0	2.0
Leary	70	10,379.5	148.3	1,872.5	2.0
Gaef Alif	77	12,554.0	163.0	1,403.0	0.5
Gaafu Dhaalu	148	33,071.0	223.5	5,160.5	1.5
Coaviyeni <u>/b</u>		-	-	-	-
Seenu	33	2,986.0	90.5	1,122.5	0.5
TOTAL	985	191,308.0	194.2	5,16C.5	0.5

Source: Ministry of Agriculture.

 $<sup>\</sup>frac{/a}{/b}$  Excluding 37 islands which paid no rept. There are no unoccupied islands in Gnaviyari Atol; which consists of a single island.

Table 8.1; TOURIST RESORT CAPACITY, 1973-79

	מכמור	לכחו	1975			on October 1 1977 1978		
	1973	1974		1976	1977		1979	
Villingij:	104	104	104	104	104	104	104	
Velassaru	_	-	-	_	45	45	45	
Vabbinfacu	_	-	-	_	12	22	22	
Kutumba	. 30	30	45	45	61	61	66	
B≇ndok	110	110	110	110	105	105	105	
Batos	28	28	26	28	28	28	28	
Kuramathi	_	-	-	-	24	24	2/	
Alimatha	-	-	10	10	10	13	15	
Kamifinolbu	-	-	-	-	-	. 9	20	
Little Huras	_	_	-	-	16	16	<u>I</u> 6	
Kuredisəs	-	_	_	-	₿	В	8	
Vaadhoo	_	_	-	-	_	9	9	
Meerufenfushi	_	_	-	-	_	64	64	
lennaalhi	_	-	-	_	_	17	<u> </u>	
Iburu	_	_	_	_	_	_	20	
Furanafushi	-	55	56	56	56	56	56	
F <b>ar</b> ukolhufushi	-	5 <del>6</del>	56	56	56	56	56	
Bodu Hithi	-	-	-	-	-	-	2.5	
Zaboodhao	_	-	-	-	-	-	2:	
Helangeli	-	<b>=</b> 5	_	-	-	<del>-</del>	20	
)lhuvoli	-	-	_	-	-	-	13	
Makachchaafush	-	-	-	-	-	-	40	
<b>le</b> dhufinolhu	-	-	-	-	-	-	13	
ota1	272	384	409	409	525	639	832	

<sup>-</sup> Nil or negligible

Source: Department of Tourism and Foreign Investment.

<sup>/</sup>a During the last week of December 1979, two resorts were opened, Lankan Finoisu and Lhohifushi, with 12 and 20 rooms, respectively, thus bringing the total to 832.

Table 8.2: TOURIST RESORT OFFRATIONS IN JULY 1979

<u>Resurts</u>	Start of Operations	So. of Record (Nos.)	No. of Beds (Nos.)	Room Charge <u>Per Right</u> (\$)	Annual Income Assuming 55% Occupancy (\$1000)	Tovestment Per Room /a (3)	Employment (Nos.)	Employment Per House (Nos.)
Villingtli /b /c	9ec. 1973	104	208	42	877	4,000	110	1.06
Velasearu /h /c.	Nov. 1974	45	90	33	298	M.Z.	110	2.27
Vabbintaru	Dec. 1977	22	44	<b>2</b> 6	115	3,000	<b>5</b> Q	2.60
Kurusba	Ome. 1972	51	1,22	33	404	<b>4</b> ,0 <b>0</b> 0	164	2.69
Mandos /b	<b>Dec.</b> 1,972	105	210	40	843	n.a.	207	1.97
Baros —	Dec. 1973	28	56	26	157	3, <b>0</b> 00	30	1.07
Kurmathi	Oct. 1,977	24	48	28	135	3,000	36	. 1.50
Aliquatha	Sep. 1975	18	36	24	87	3,3 <b>0</b> 0	12	0.67
Xanifinollu	Dec. 1978	9	B.J.	36	65	2,700	10	1.11
[itt]c Horaa	Oct. 1977	16	32	24	77	000, د	25	1.5 <del>6</del>
Kuredhoo	Feb. 1978	.8	ī6	40	64	940	9	1.13
Vaadbue	Dec. 1977	9	18	74	43	2,500	22	2.44
Mgerofanfushi /b	Nov. 1978	64	128	30	385	5,000	<del>በ</del> ይ	1.03
Raumaallii	Jan. 1978	17	34	24	82	400	30	1.76
Ihuro	Jap. 1979	10	20	28	56	11 - B -	24	2.40
Total Maldividu Operated		540	1,080	34 <u>/d</u>	3,608	m.a.	905	1.68
Puranafusht /b	Dec. 1973	56	112	30	337	n.a.	128	1.29
Farukolbafushi /b	Dec. 1973	36	112	94 <u>/e</u>	1,057	n.a.	85	1.52
PARTICOLOGICALITY / U	nego jaza	_ru	IIA	34 <u>14</u>	1,05		**	
Total Foreign Operated		112	224	62 <u>/d</u>	1,394	n.a.	213	1.90
TOTAL ALI RESORTS		652	1,304	39 <u>/d</u>	5.082	2,600 <u>/f</u> (1978 Average	1,118 )	1.71

Actual 1978 costs or replacement cost at 1979 prices with respect to resorts built before 1978.

| To | Currently Covernment or Majlia controlled.
| Covernment managed.
| Average rate.
| Special Club Mediterrance all-inclusive package.
| To | Based on actual data and estimates.

Sources: Department of Tourism and Foreign Investment; tourist resorce; Bank staff estimates.

## Table 8.35 COMMISS PARATRIA AND EXPEDIMENTARIS DW 1978 9175 \$ 1000 O

TENERORS			- —	<u>вхткирдічно</u>				
	Total	<u>of wii</u> Foreign Exclange <u>Survings</u>	<u>eh</u> ; <u>[Crel</u>		10tal	<u>od wb</u> Ingotta	<u>fch</u> : <u>Yoczl</u>	
Association and Food				<u>Rowell</u> m				
locally Operated Resorts 🖊				Caed <u>/é</u>	1,116	78ú	134	
Серчи Вередосе <u>/Б</u> Lego 15% hous орижальсь"	3,113	-		Woges and Salaries / <u>E</u>	362	1.	362	
discount discount discount	$\frac{a67}{2 \cdot a546}$	<del></del>	<del>-</del>	áthace <u>/g</u>	220	132	_97	
Poseign Operated Reserve / <u>s</u>				Total of which:	1,696	913	182	
Operating Revenues	1,389	1,739		Fereign Monaged Remortm /h	<b>3</b> 40	204	13 <del>6</del>	
Trial Upstating Reseause	4,039	6,035,17	12	— Touriscs " Specding				
Transfere <sup>t</sup> Possible <u>de</u> ag Ocher Grode and Services				nu Tnuldentele				
(p the Secotte <u>/C</u> Electron /C	1,160 1,114	1,350 1,114	- -	in the Resorts <u>/1</u> (Aseshere <u>/i</u> Tales	1,560 1,114 114	906 279 - 5	624 835 114	
Aimport Tex	11.5	11.6		Intal	2,788	l,213	572	
Total Other Idense	2,788	2,788		Invastrent /k	260	170	90	

Sources: Department of Courtest and Function Investment; Tourtlet Beauths; Budget; Carl staff estimates.

Paged on 1,110 aperts for 200 Acce (557 commowney) specialny 97 our day each in reserve end 95 year day ou Alde.

Bacopt Equilibration, Vageton, Mescuferquebut and thron which were non operative most of 1928.

Assuming 59% capacity deficient an published occur charges (latter 4.9)

Surema and Parakotharushi.

Paged on 1,110 greats for 200 days (59% consequency) apaciding \$7 par day each in reserve and \$7.4 Average cost of 65 per day per person, of which \$1.50 or imported.

Mescage to 50 namegars, cooks, ato. Caroling of everyone ER 1,200 per routh and 1,040 other works. based on 56 menegere, mucke, etc. Cerning on everage ER 1,200 per loath and 1,040 other workers sveraging MR 200 per month (converted at MR 0.00 per ESSI).

In Eachward at 15% of Good and wage coses with a GCX import content (mainly Fuel). The laurulated pro mate 305 of peacot capacity.

Import contest estimated at 60%.

<sup>/</sup>a Tourist Content Eatforted At 25%.

 $<sup>\</sup>overline{f_{\theta}}$  -Based on IL-U coose under conscruction at on average each of 82,690, of which; constraint on \$2,900 (hapen's \$1,200), withor fired and acception separte 5500 (type state 5500).

<sup>1/</sup> Of these foreign enchange partings, pair enough to nower teconts' operation expenditures is sublicated to Neve Book repairianted to the Maldives in 1979.

Table 8.4: ANNUAL DEMAND FOR SELECTED FOODS BY TOURIST INDUSTRY

	Weekly Requirements for Six Island Resorts (kg)	Implied Annual Requirements for all 23 Resorts (settic tops)
Cathages	690	96.4
Carrots	690	96.4
Tomatoes	615	85.9
Cucumbers	680	95.0
Pineapples	670	93.6
Potatoes	940	131.3
Oranges	75	10.5
Eggs (units)	7,750	1.1 (million)
Broiler chickens	88 <u>5</u>	123.7

Source: Department of Tourism and Foreign Investment,

Table 8.5: MALDIVES SHIPPING LINITED - MIRET PARTICULARS

<u>M.S.L.</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u> 1976</u>	1979 (Estimate)
No. weeneds Heri Freight come catched	<u>15</u> 81,836 567,268	29 106,243 512,706	94 115,466 452,142	29 97,794 441,165	29 109,956 576,597	31 130,923 537,983
Total Exployees	833	959	1.,101	940	985	1,070
ef which: Makdivies Resionals	551	653	784	576	664	735
Climax /A			ē			
No. venecie Dwi Preight tose cerrico	5 30,779 403,950	8 44,995 144,753	]D 54,691 140,268	1/3 64,691 162,931	8 45,128 225,137	8 45,128 1:9,316
Total Exployees	781	201	350	366	296	149
of which: Maldivian Hationals	75]	235	243	250	194	94
Orbeza /a						
No. vessels DVT Preight come carried	8.4. 34,385 717,350	4 28,140 58,321	8 47,821 141,875	9 57,277 202,383	8 56,707 244,208	6 35 <sub>8</sub> 651 73,270
Total Emplayees	Я.Σ.	139	162	31.7	107	17.1
ef which: Kallivian Nestonale	H.2.	104	186	205	198	99
<u>Total</u>						
No. vesmelo UNT Freight tone carried	90 126,997 788,560	46 179,288 715,790	32 22/,978 /42,780	48 719,762 809,499	45 202,79k 1,044,852	45 211,701 729,567
Intel Employees	1,014	1,449	2,713	1,623	1,588	1,870
of which: Maldivian Mationals	762	962	1,173	1,476	1,994	927

<sup>/</sup>a Climax and others are small privately owned shipping companies which are managed by MSD; VCT, owns roughly 30% on average of equity in these companies, to which MSE has also extended loses.

Sources: Maldives Shipping Limited; Ministry of Shipping.

Table 8.5: MALDIVES SHIPPING LIMITED - VESSEL OPERATIONS

•	<u> 1975</u>	1976	<u> 1977</u>
<u>Operations</u> (US\$M) / <u>e</u>	·		
Grass Operating Revenues Operating Costs Net Operating Revenue	16.7	19.8 18.2 1.6	19.5
Memorandum Itema			
. Rovenue/Book Value <u>/b</u> . Gross Profit <u>/c</u> /Revenue (%)		2.0 11.4	2.3 0.003
Costs es a Percencage of Gross  Operating Revenue  of which:	<u>80.0</u>	91.9	103.7
Habüling and Stevedorage Grew Costs <u>/d</u> Puol Repairs Insurance	15.3 17.2	1.6.0 22.2 18.7 9.2 3.9	23, 4 18, 4

 $<sup>\</sup>frac{/\epsilon}{\epsilon}$  1975 and 1976 actourts in Founds Sterling converted to US collars at \$2.10 and \$1.88 =  $\pm$  1.00, respectively.

Source: Maliives Shipping Limited.

 $<sup>\</sup>frac{b}{b}$  Book value end year (asker deplectation) of purchase price during year.

<sup>&</sup>lt;u>/c</u> Before depreciation.

 $<sup>\</sup>frac{fd}{dt}$  Salary, mesa, Sentuilment and repartiction, traveling and accommodation.

Table 9.7: MALDIVES SHIPPING LIMITED - INCOME STATEMENT (US\$ \*000)  $\underline{/a}$ 

1975	<u>1976</u>	<u>1977</u>
4,656	3,055	1,643
<u>(460)</u>	<u>(1,532)</u>	(2,359)
4,196	1,523	(716)
135	237	266
	_	165
		502
<u>31</u>	<u>25</u>	<u>45</u> 978
548	397	978
4,744	1,920	. 262
376	585	574
_	15	163
11	10	8
<del></del> 387	613	745
4.357	1,310	(483)
· 1:	(2h)	347
		-
4,368	1,289	(135)
1,757	1,468	890 <u>/b</u>
	4,656 (460) 4,196 235 176 206 31 548 4,744 376 -11 387 4,357 11 4,368	4,656     3,055       (460)     (1,532)       4,196     7,523       235     237       176     -       206     135       31     25       548     397       4,744     1,920       376     585       -     15       11     10       387     610       4,357     1,310       11     (21)       4,368     1,289

Source: Maldives Shipping Limited Audited Accounts.

<sup>-</sup> Mil or negligible

 $<sup>\</sup>frac{I_B}{I_B}$  = 1975 and 1.976 accounts in Pounds Starling converted to US dollars at \$2.10 and \$1.58 = % 1.00, respectively.

<sup>/</sup>b Department of Finance figures.

 $\underline{\text{myble 8.8}}$ : MALE PORT

•						
ħ	<u>1974</u>	<u>1975</u>	<u>1976</u>	1977	<u> 1978</u>	<u> 1979</u>
No. of Ships	64	58	88	62	39	22 <u>/a</u>
Average Turn-around Time of Ships (days per call)	7	9	5	7	5	9
Port Capacity $\underline{/b}$ (*000 tons) $\rightarrow$	_	_	-	_	40	-
Total Incoming Traffic (1000 tons)	19.8	18.7	27.9	32.5	19.3	27.3
Composition of Encoming Traffic						
Foodgrains ('000 tone)	7.9	10.3	17.9	21.6	7.1	15.8
Patroleum Products ('000 tons)	0.6	0.8	2.5	4.1	2.4	3.5
Other Cargo (1000 coms)	11.2	7.6	7,5	7.2	9.2	7,9

<sup>-</sup> Nil or begligible

Source: Department of Shipping.

<sup>/</sup>a Through June 1979.

<sup>/</sup>b Maximum traffic port can handle each year.

Table 9.1: STRUCTURE OF GOVERNMENT WAGES AND SALARIES, JULY 1979

Koldivian Rupees per Month	No. of Employees	Percent of Total	Annual Salary Bill (M4ldivian Rupees)	Percent of Total
D <b>-9</b> 9	905 .	16.2	807,672	6.6
100-199	3,397	60.6	5,949,480	4B.3
200-299	787	14.1	2,226,372	18.1
300-499	294	5.2	1,244,112	10.1
500 <b>-</b> 7 <b>9</b> 9	163	2.9	1,106,040	9.0
800-999	21	0,4	210,960	1.7
1,000 and over	34	0.6	769.360	6.2
Total	5,601	100.0	12,314,196	100.0

Source: National Planning Agency, Covernment of Meldives.

Table 9.2: RETAIL PRIMES OF SPIRCIED COMMODITIES, 1975-79 (In Maldivian Rupees)

	Vnit	1975	1976	1977	1978	July 1979	nec. 1979
Rice (ordinary) /a	kg.	0.70	1.09	0.97	1.02	1.27	1.55
Sugar <u>/a</u>	kg.	1.67	2.29	2.03	1.86	1.68	1.76
Flour <u>/a</u>	kg.	0.72	1.37	1.34	1.45	1.43	1.87
Condensed m11k	14 oz.	3.59	_	4,20	3,58	2,96	3.13
Hed onions	lbs.	1.59	3.88	4.07	4.75	8.75	13.00
Gasoline	1iter	<u>-</u>	1,92	2.40	3,52	4,62	6,45
Kerosene <u>/a</u>	liter	-	1.35	1.66	1.83	2.45	2.46
Electricity rete	lavh	0.66	0.95	1.48	1.50	1.50	
Seap	bar	3.90	3.90	3.90	2.36	2.40	3.69
Printed fabrics	meter	12.80	12.80	12.80	10.69	9.25	12,00
Shirting material.	zeter	8.90	8.90	8.90	9,45	10.38	11,25
Coconuts	оде	0,20	40	0.60	0.34	0.30	0.35
Вацапли	OTIL	0.33	0.46	0.50	0.21	0.36	0.24
Fresh fieh	опе	4.00	5.00	4.00	7.00	9.67	8.50

<sup>.,</sup> Not available

Source: Department of Finance.

 $<sup>\</sup>underline{/a}$  Subject to price control by the Department of Finance.

- 185

 $\frac{120016-10.1}{10.000}$  - ANTHAGE MONTHLY MAXIHON AND HUNDRING TENFERATURE AND RAIMMED AND RAIMS DAYS, RECORDED AT MULTUR AIRFORT

	<u> 122.</u>	Беђ.	<u> Xarrah</u>	April	<u> Xay</u>	<u> </u>	$\underline{J\eta\gamma_{,Y}}$	Acguet	<u> Вирі</u>	Oct.	Koy,	Дев	<u>local</u>	Acorege
Макатир Тепроватите $\underline{\mathcal{C}}^{\alpha}$														
1974	25.9	30.2	32.2	90.9	31.2	3L.4	29.9	30,0	29.0	29.4	30.4	2%.5	364.8	30,4
1975	29.2	20.0	31.2	39.7	AD: 10	29.8	30.3	30,1	29.4	29-1	29,3	75 . 4	160.7	3C.1
1974	29.5	40.0	21.1	31.2	30.4	30.7	30.1	30.3	39.6	29.5	29.3	29.5	362.2	30.2
1977	300.2	4.0F	31.5	32.2	30.2	35.8	50.5	30,1	30.4	29.5	29.7	29.5	365.i	7C.4
1978	29.7	30,5	90.5	31. <b>0</b>	30 .L	20.2	29.6	29.6	29.8	29.5	29.7	29.4	359.9	30,0
Kimlona Tamperature $G^{\theta}$														
1974	24,4	27.2	21.7	21.9	25.9	25.9	24.8	25 . 5	24.1	25.4	24.3	24.9	296.0	24.J
1975	25.1	25.3	26-1	27.3	27.6	25.6	25.9	74,9	25.4	25,0	35.2	25.2	386,6	75,6
1976	24.9	25.0	26.3	26.4	76.3	36.9	23.7	26.1	26.1	25.C	25.0	24.8	308.7	25.7
1977	26.2	25.6	25.5	25.5	24.9	25.8	23.2	25.0	22.4	24.2	24.4	24.6	300.4	25. U
1978	23.0	25.7	25.8	25. ii	24 . 4	z <b>4</b> .5	23.1	28.4	24.7	24.°	24.7	24.2	294.4	34,5
<u>Rwintall</u> (daches)														
1974	.bae	.913	11150	6.583	6.693	4,634	9,703	5.793	10.858	5.740	.764	7.205	60.845	5.604
1973	5.61a	5.459	. 980	10.016	14.248	4.243	4,740	11.142	10.264	7.815	5.133	6.059	86.594	7.225
1976	2.6697	1.480	. 1 3v	5.500	UU:590	7.519	9.122	2.319	4.165	18.016	9.099	5.040	74.425	() , ZHZ
1977	. 39.9	1.953	21828	7 .36E	13.1.77	3.717	5.827	6.13.27	16.997	18.272	8.827	12.287	93 .045	75,87[
1978	. 756	.067	41766	7.575	200.055	10.902	1/01/28	9.040	16.472	10.394	8.081	6,390	106.591	88,826
Rainsy Daya														
1974	1	5	4	9	14	13	27	13	23	16	6	13	144	12.0
1975	7	7	4	19	1.7	26	20	25	16	21	14	11	1,67	13.9
1976	6	2 7	1	16	12	16	3"	Σ0	1D	20	15	1.3	135	11.3
1977	נ		ΤĢ	Ь	19	15	<u>15</u>	24	20	22	18	13	162	. 13.5
1973	2	2	13	ľ	21	13	20	76	19	16	10	12	154	12.5

Gausen; Weather Reported Administration, vgia, (Astrives)

Personal of Women Now Harried,

 $\frac{180 \log 10.2}{10.2}$ : Finally foundation, by martial states and number of markages, classified by acr group

Pidowed or Divorced Who Bave Been Macrial No. of Times Marched Marital Status A nt More 2 or More Mayer You Mac Tibes 4-6 <u>7 e</u> Iines Stated Total 2-3 Mar Plad Magnifed. Midneyad Disorced Age Group 22,489 22,489 Doder 10 Tears 40.2 6.7 10 - 19 11,953 3,596 12 **양사**년 237 16,784 2,576 1,538 278 30 447 68.4 26.1 20 - 29422 7,349 55 1,158 241 9,225 2,533 3,672 1,747 46.9 2,589 2,250 7,276 1,285 83.7 **30 - 39** 43 6,625 130 776 3.50 7,736 40 - 495,865 863 1,985 1,668 1,027 82,3 47.3 14 4,645 7'-0 TD5 726 1,523 50.9 1,074 83.3 22 634 1,646 Over 50 Tears 2.563 1,481 1.059 194 5,319 39.0 26 190 15 37 25 13 76.5 Not Stated 7H 3. 17 66 7,531 44,994 ∍,876 36.1 24,856 2,039 4.70L 1,018 67,608 7,855 11,627 Total 72.3

Source: Cenaus, 1977.

<sup>-</sup> S41 or negligible

Table\_10.3: PER CAPITA AVAILABILITY AND DISTRIBUTION OF SYSEXTIAL CONSODITIES BY STATE THADING ORGANIZATION (DEPLIE tops)

	<u>1974</u>	<u>1975</u>	<u> 1976</u>	1977	<u>1978</u>	<u>1979</u> (Katinate)
<u>Rice</u>						
A. Opening Stock B. Imports C. Total Supplies (APB) D. Sales E. Clesing Stock (C-J) F. Per Capita Availability (kg) G. Per Capita Distribution (kg)	1,254.6 4,009.0 3,202.6 4,004.7 1,258.4 40.6 31.0	1,258,4 3,878,2 5,236,6 3,552,1 1,604,5 38,9 26,8	1,604.5 13,940.7 15,545.2 9,713.2 5,932.0 114.4 71.4	5,822.0 15,098.0 20,990.0 11,620.8 9,007.1 749.5 83.0	9,307.1 276.8 9,583.5 8,720.1 1,363.8 66.5 37.1	1,369.8 11,438.8 13,002.6 9,267.3 3,735.3 87.8 62.6
Plour						
A. Cyening Stock B. Imports C. Potal Supplies (A+8) D. Sales E. Closing Stock (G-3) F. Per Capita Availability (kg) G. Per Capita Distribution (kg)	299.8 2,414.6 3,714.4 2,714.4 21.0 21.0	4,128.5 4,128.5 3,634.1 470.4 31.2 27.7	474.4 7,995.9 2,470.3 2,151.6 408.7 28.2 15.8	318.7 3,279.9 3,597.6 2,854.0 7131.6 95.7 20.7	703.6 3,591.8 4,495.5 3,236.6 1,158.9 30.4 22.3	1,158.9 4,284.9 5,443.8 4,516.0 925.5 36.7 30.5
Sugar						
A. Opening Stock  B. Imports C. Total Sumplies (A+5)  B. Sales  P. Glosing Speck (C-E)  F. Per Capita Availability (kg)  G. Per Capita Udscribunich (kg)	976.7 2,048.2 3,024.9 2,169.9 855.0 23.4 16.8	958.0 7,250.4 3,475.4 2,581.8 892.6 26.1 19.6	693.6 2,443.0 9,336.6 2,414.0 572.6 24.5 17.7	922.6 3,293.5 4,216.1 2.940.7 1,372.4 30.1 20.2	1,372,4 9,541,4 4,913,8 3,616,1 1,303,7 34,1 25,1	1,303,7 4,016,0 3,319.7 4,715.6 604.1 36.0 31.5
Катрама						
A. Opening Scock B. Theoria C. Total Supplies (A+B) Q. Sales F. Closing Stock (C-P) L. Per Capita Availability (kg) L. Per Capita Distribution (kg)	195.1 195.2 214.3 54.8 159.5 1.7 0.4	134.3 461.6 621.1 457.1 154.0 4.7 2.3	194.0 1,53%,9 2,696.9 503.2 1,135.7 12.5 3.7	1,169.7 81,1 1.275.2 591.8 680.4 9.1 4.2	683.4 596.6 1,280.0 791.9 488.1 8.9 5.3	448.1 614.3 1,272.4 916.4 336.0 9,6 6.2
<u> Jenorandur Iten</u>						
'Md-Year Population ('QDG) 'er Capita Distribution of Cereals (Rice and Flour)	129 52.0	132 54.5	136 37.2	140 100-7	144 79,6	73.1

Sturca: Stare Trading Organization.

 $\underline{\mathtt{Eable}(\mathtt{AGLL})}$  - LITERACY BY AGE, SEE AND LOCATION

	Terl	tal Populat	1on		Literates		Percentage Literate			
Age Croup	Male	Female	Ioral	Hale	<u>Pemale</u>	Total	Male	Female	Foral	
D5 - V9	11,052	10,731	21,783	3,283	3,479	6,762	29.7	32.4	31.0	
10 - 14	9,409	6,757	18,126	6,443	6,408	12,851	68.5	77.5	70.9	
1.5 - 19	B, 173	8,367	16,240	6,665	6,971	13,636	81.5	86.4	84.0	
20 - 24	5,958	5,726	11,684	5,157	52014	10,171	86.6	M7,6	87,0	
25 - 34	7,637	7,126	14,763	6,685	6.184	12,869	87.5	86.8	87.2	
35 - 44	8,569	7 522	16,091	6,946	5,892	12,838	1.18	78.3	79.8	
45 - 54	6,265	4,417	10,682	4,794	3,254	8 <sub>+</sub> 048	76.5	73.7	75.3	
55 - 64	3,363	2,279	5,642	2,654	1,625	4,289	79.2	11.3	76. <b>0</b>	
65 and over	2,174	1,075	3,249	7,643	737	2,380	75.6	68.6	73.3	
TOTAL <u>/4</u>	62,600	55,660	118,260	44,280	39,564	83,844	70.7	71.1	70.9	
Of which age 15 and over	42,139	36, 21.2	78,351	34,554	29,677	64,231	82.0	82.0	82.0	
Location							·			
Male Capital	14,649	11,679	25,728	12,852	9,871	22,723	87.7	89.1	88.3	
Other Atolls	48.496	44,771.	93,267	31,639	29,786	61,425	65.2	66,5	65.9	

<sup>/</sup>a Includes not stated.

Source: Census, 1977.

	5-24				25-44			and over !	<u>′a</u>	Total In			
	<u>Male</u>	Tenale	Tist all	Hel a	Female	Tourl	<u>nale</u>	Female	Total	Møle	Penale.	<u>Tetal</u>	
Male Capital									-				
Wo Standard Zeseci	4,545	4.485	9,323	2,697	2,235	5,133	1,620	2,211	3,031	9,565	7,932	77,427	
Princy Tave?	2,256	1,770	4,026	667	4.77	1,001	193	32	225	3,116	2,135	3,252	
Middle Level	363	38B	752 282	36 <u>1</u>	269	529	84 15	313	114	808	3 <b>9</b> 6	1.394	
Secondary School	295	21.2	507 79	359	89	448 51	48	12 2	6D	. 702 84	313 49	1,015 133	
Pre-University Vniversity	4 <u>-</u> +	39 -	79 4	42 04	9 10	42 42	1 ይ		3 3	04 91	45 10	331 31	
University What Sharad	72	- 26	98	.i= 68	9	76	_ ±93	• 6	<u> 212</u>	332	53	386	
ane arethic			20		<u>-</u> -	'	_ ===	7					
Targ w 1	7,679	6,919	3.4,798	ሳኔሳየጽ	2,854	7,282	2,342	1,306	3,648	14,649	11,079	25,728	
<u>Othor Atolls</u>													
No Standard Yaseol	21,075	20,033	41,126	8,699	8,861	17,560	4,049	6,28/	L\$,335	38,620	35,201	74,02L	
Princey Level	5,368	5,245	21,813	2,561	2,896	3,457	761	371	1,022	В,830	9,462	78,292	
Middle Level	39	12	51	354	3-0	384	219	<b>≟</b> 3	262	612	85	697	
Secondary Sabsol	2.5	6	41	757	7	ڪن 7	33	3	36	215	16	231	
Pre-Toiversity	ሳ	1	5	2	-	2	1	-	1	7	T	8	
Volvecaity		1	1	Ą	_	9	<b></b>		<b>-</b> .	4	]	5	
Mot Stated	<u> </u>	4	8		=	<u>_1</u> .	<u> 9</u>	1	. <del></del> -		5	<u> </u>	
Inch]	26,713	26,022	S2,025	11,778	11,794	23,572	10,005	6,653	16,660	46,496	44,771	93,267	
Entire Republic													
No Standard Passer	25,921	24,538	50,459	11,596	11,097	22,493	10,869	7,498	16,366	46,385	43,133	91,518	
Princey Tavel	7,824	8,015	15,839	3,228	3 , 2341	6,469	894	35.5	1,24/	11,946	11.598	23,544	
M(idd) A flevel	432	400	802	710	15H	533	303	75	375	1,420	671	2,691	
Secondary School	52 <b>0</b>	278	538	5),6	<u>5</u> 6	51.7	81	15	96	917	129	1,246	
Pre-Oniversity	45	,99 1	H4 =	ή/ <sub>1</sub>	9	193	2	-	4	91	50	141	
Volversity	. 4 75	, 3G	5 264	38 69	10 0	43 77	<u>9</u> 106	_ 2ს	<u></u>	45 541	11 18	56	
Not Stated			<u> 106</u>	·—::a	<u></u>	!	196	<u>20</u>	216		<u></u>	399	
7otal	54,592	0.0,241	57,833	$16_420h$	14,548	30 <sub>+</sub> 356	12,347	7,961	20,308	63,245	35,850	118,995	
•													

<sup>-</sup> Kim or negligible

 $<sup>\</sup>underline{f_{\rm H}}$  -Theluces not stated.

<sup>&</sup>lt;u>Вригос</u>: Сельов, 3977.

reble 10.6: CURRENT SCHOOL ATTEMBANCE BY AGE, GRADE, SEE AND LOCATION

			Age Graup			!	Яфи	Locati	
	<u>05-09</u>	<u>10-14</u>	<u>15-19</u>	20-24	Total <u>05-24</u>	Male	<u>Feedla</u>	Hele <u>Capital</u>	Other Atolla
Total Population	21,781	18,126	16,240	11,684	67,833	34,592	33,241	,1A,798	53,035
of whitehes Accounting School	5,047	5,676	1,437	133	12,293	6,274	ñ <sub>3</sub> D19	4,350	7,943
<b>க</b> ை அத்தன்] தாவி	2,393	2,069	353	39	5,054	2,614	2,440	1,406	7,64H
Primary - Grade O	2,002	2,048	768	9	4,327	2,1.90	2,197	B93	3,434
- Crodes 1-5	446	1.,403	460	26	2,337	1,241	1,096	1,503	834
- Other	•	5	3.7	11	846	49	13	54	2
(aubtotal)	(1,448)	(3,459)	(785)	(48)	(6,720)	(3,414)	(3,306)	(2,450)	(4,270)
Middla - Cradce 6 6 7	3	125	305	5	238	103	135	334	. 4
- Other	_	1	Eð	10	21	14	7	15	6
(subtotal)	(3)	(126)	(115)	(15)	(259)	(117)	(142)	(249)	(10)
Secondary - Crades 8-10	1	H	163	īģ	186	90	96	18?	4
- Grade 1 <b>0</b> +	_	_	23.	y	71	19	12	29	3
- Other	-	_	3	1	4	2	Ż	4	_
(subtotal)	(L)	(B)	(188)	(24)	(271)	(111)	(319)	(215)	(6)
Pre-Oniversicy	-	1	6	6	13	7	6	12	1
University	-	-	-	_	_	•	-	_	_
Not Stated	2	13	10	1	26	111	<b>15</b>	18	Ĥ

- Wil or megligible

Scurce: Census, 1977.

### Tab<u>le 10.7</u>: Quality of Housian

Entering: Howarholds by reserval of construction of walls and exale.

						loof	
	<u> 2072l</u> <u>22</u> .	Comel/bolok wich plaster	Corel/heick without pleason	Thansh/Calminiand Sheets/other	keinformed payopers Relvenioni Shout	TELMS	Thetcled and Othera
Samber of Households							
Entire Republic	23,290	4,701	0.377	7,015	14,753	1,404	J_23J
Atothe except Make	20,237	1,797	10,522	5,858	12,753	1,149	6,955
Hale	0,050	907	857	2.700	2,689	17	267
Persentage of Hotsebooks							
Botime Repoblic		20.2	45.0	30.3	65-4	5,0	71.1
Atells except Male		15.3	<b>有を</b> しま	>4,9	63.0	5.7	94.4
Mate		29.7	25.L	3916	67_3	p_4	*V_ /

Reciping) Households according to source of fricking wathy, type of lateine, and evallability of electricity in the censes because  $\gamma$ 

		Source of t	<u>Irdoking Valen</u>	<b>?</b> /[ኮ	of lattine	<u>Kincletetty</u>	
	$\underline{Const} = \int \underline{o}$	Bain Water	Well web-1	4. <del>II.</del>	Othero	Yea	745
aber of muscladis							
Social Republic	23,290	2,617	21,577	<b>575</b>	22,363	1,276	20,442
Atolia cacept Waln	70,237	705	19,451	72	27,127	665	
Main	J <sub>1</sub> 053	<b>8B2</b>	5,081	1111	2,440	1,810	9,765 1,157
ceestage of Baassholds					•		
Zotite gepublik		6.1	9205	7.5	95.0	8L8	нуля
Appulie except Nate		5.6	95.1	μίλ	yə,a	2.3	¥5, /
Kile		29.9	hKL2	1 հան	B0.1	59.3	97.9

 $<sup>\</sup>underline{f}\underline{a}$  . Includes that stated.

<u>Bource:</u> Geesuc, 1977,

### Table 10.8: HEALTH INDICATORS, 1977-79

# $\frac{1}{2}$ IMBIUATOR

Total Possificy Rate (per '000) Crude birth rate (per '000) Crude death rate (per '000) Natural population increase (per '000) Infant mortelity rate (per '000) Maternal mortality rate (per '000) Child death rate /# No. of practicing physicians	$\begin{array}{c} 5.39 \frac{/a}{\sqrt{5}} \\ 44.0 \frac{/5}{\sqrt{5}} \\ 17.6 \frac{\sqrt{5}}{\sqrt{2}} \\ 26.4 \frac{\sqrt{n}}{\sqrt{5}} \\ 120.7 \frac{\sqrt{5}}{\sqrt{5}} \\ 11.9 \frac{\sqrt{c}}{\sqrt{2}} \\ 21.2 \frac{\sqrt{e}}{\sqrt{e}} \\ 9 \frac{\sqrt{e}}{\sqrt{e}} \\ 15,894 \frac{\sqrt{e}}{\sqrt{e}} \end{array}$
Pepulation per grantining physician	15,894 <u>/e</u> ∣
No. of proceeding physicians per 10,000 page1stion	0.63 √e
No. of practicing nurses	15,894 <u>7e</u> 0.63 <u>7e</u> 7 <u>7e</u>
Population per practicing nurse	20,435 <del>7e</del>
No of gracuiting nurses per 10,000 population	0.49 <u>/</u> c
No. of auxidiary health workers:	=411
Norse aides	$\begin{array}{ccc} 11 & \frac{f}{24} \\ 24 & \frac{70}{70} \\ 31 & \frac{f}{2} \\ 48 & \frac{7f}{2} \end{array}$
Realth assistants	24 <u>70</u>
Community health workers	31 7 <u>r</u>
Pamily health workers	48 7 <u>f</u>
Fortunes (readitional midwives):	<del></del>
rfairei	190 /f
ustraices	273 <del>7f</del>
traditional practitioners	171 76
No. of hospical heds	40 <u>7e</u>
Population per hospital bed	3,576 74
No. of beds per 10,000 population	2.8 <del>7</del> €
No. of atoil heelth centers	23 万
Realth expenditure as opposit of mational budget	190 /f 273 /f 171 /s 40 /e 3,576 /e 2.8 /e 23 /e 6.0 /e
Fer saring health expenditure (baldivian Rupees)	9.65 <u>7a</u>

## <u> Επίπες κ</u>ί

- $\begin{array}{ll} \frac{/a}{/b} & \text{Garsos, 1977.} \\ \frac{/b}{/c} & \text{WHO/SKARO document SEA/Immun/I6, page 47.} \\ \frac{/c}{/d} & \text{Musager, Government Respiral, Male.} \\ \hline{\frac{/d}{d}} & \text{Number of deaths smong children 1 to 4 years of age,} \end{array}$ per Liouszad children in the same age group in a given year.
- /E WHO Office, Male.
- $\frac{76}{75}$  Director, Allied No.  $\frac{76}{8}$  Ministry of Heelth. Director, Allied Realth Services Training Center, Male.

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