INTRODUCTION

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[INTRODUCTION]

1. The Background of the Study

The area of the Republic of Costa Rica is about 50,000 km², and the population is about 2.46 million as of 1984. The country's economy is centered on such agricultural products as coffee, bananas, sugar and beef, and the economy is quite active. The GDP per capita is higher in Costa Rica than in the other countries of Central America.

As for the foreign trade of Costa Rica, the main commodities are agricultural products such as coffee and bananas for export, and industrial products for import. Trade is conducted not only with Central American countries but also with Japan, Europe, Asia, and North and South America. For some years, marine trade in Costa Rica had been conducted mainly through the Port of Puntarenas on the Pacific coast and the Ports of Limón and Moin on the Atlantic coast.

However a few years aso, as the facilities at the Port of Puntarenas were becoming superannuated, it became necessary to develop new port for the Pacific coast trade. Rather than invest a large amount of capital to restore existing facilities and provide new facilities at Puntarenas, the Government of Costa Rica decided to construct the Port of Caldera, about 15 km from the old port at that time. The Port of Caldera was opened when the first stage construction work, including three quaywall, was completed in December 1981. Over time, the new Port of Caldera will take over all the port functions of the Port of Puntarenas. However, it has become necessary to take appropriate measures against sand sedimentation at the present port. It has also become necessary to respond to such problems as a

shortage of cargo handling equipment caused by the diversification of commodity items, and insufficient berth length because of increased ship size.

Moreover, the National Development Plan, 1982-1986 (1983, MIDEPLAN) is centered on the promotion of agriculture and industry and the development of such infrastructures as ports and roads. This plan shows the direction of the future socioeconomic development in Costa Rica. Therefore, the Port of Caldera will play an important role in the development of the national economy.

Along with this, it has become necessary to conduct a maintenance project for the existing first stage facilities at the Port of Caldera as stated in the National Transport Plan (November 1981, MOPT). This project will help to alleviate the urgent problems at the port through restoration and maintenance works on the existing structures. Thus, the Port of Caldera will continue to fulfill its vital role as a transportation center for the Pacific coast by utilizing the existing facilities to the utmost extent.

2. The Study Objectives

The objectives of this study are to establish measures to respond to such technical problems as sand sedimentation in the harbour, insufficient berth size, and a shortage of port cargo handling equipment, and to plan a maintenance project including a feasibility study based on the proposed measures so that the port can function as the main gateway on the

Pacific coast for the Republic of Costa Rica.

Circumstances 3.

In response to a request from the Government of the Republic of Costa Rica to carry out a feasibility study on the Maintenance Project of the Port of Caldera, the Government of Japan dispatched a Contact Mission headed by Mr. Takashi Hashikawa, JICA to clarify the contents of the request in Februay 1985.

The Government of Japan thereafter decided to conduct the study, and dispatched the Preliminary Study Team headed by Dr. Isao Irie, JICA to form the Scope of Work for the study in May 1985. The team had a series of discussions about the study with Costa Rican government officials. The Scope of Work was agreed upon on May 27, 1985 by Ing. José G. Chacon L., Director General of DGOPF/MOPT and Dr. Isao Irie, Leader of the JICA Preliminary Study Team.

Based on the Scope of Work, JICA organized and dispatched a full-scale study team headed by Mr. Takashi Hazama, Senior Executive Director of OCDI. The study team then collected data and performed field surveys in Costa Rica. The study team prepared the Progress Report at the end of the field surveys.

The study team then analysed the data collected in Costa Rica and prepared the Draft Final Report. The study team submitted the Draft Final Report to MOPT and had a series of discussions on the report with MOPT as well as conducting seminars as a form of technology transfer in June 1986. MOPT, which is the counterpart agency of the Costa Rican Government, generally agreed upon the content of the Draft Final Report.

4. The Study Items

The study items are as follows :

Demand Forecast Port and Harbour Planning Port Operation Planning Natural Conditions the approximate services Countermeasures against Sand Sedimentation Dredging Design, Construction and Cost Estimate Economic Analysis **Financial Analysis**

1.1.2

(52)

5. Participants in the Study

5. 1 The JICA Study Team

<u>DUTY</u>	<u>NAME</u> <u>C</u>	DRGANIZATION
Team Leader Overall Management	Takashi Hazama	OCDI (Senior Executive Director)
Sub-leader Demand Forecast and Port and Harbour Planning	Shigeru Murata	OCDI
Port Operation Planning	Satoshi Tanami	OCDI
Countermeasures against Sand Sedimentation	Hiroshi Okamoto	OCDI
Economic Analysis and Financial Analysis	Taketo Fujii	OCDI
Design, Construction and Cost Estimate	Takeo Katayama	CCI
Dredging	Jun Hamano	CCI
Natural Conditions	Yoshio Yano	CCI
Co-ordination	Atsushi Kawai	JICA
Co-ordination	Kohichi Aita	JICA
	Aiichiroh Yamamot	o JICA
		egenetiset for de la construction de la construction nature de la construction de la construction nature de la construction de la construction de la construction de

(53)

5. 2 The Costa Rican Counterparts

(1) MOPT

NAME

POSITION

Ing. José G. Chacón Laurito

Ing. Alfredo Wesson Acuña Ing. Ronald Mesén Vega

Ing. Edwin Rodriguez Aguilera

Ing. José Fabio Gutierrez Jiménez

Ing. Aristides Romero Vargas

Ing. Gilberto Rodriguez Pacheco Ing. Jeannette Muñoz Vivas

Ing. Greevey Picado Soto

(2) INCOP

NAME

Sr. José Aponte Quirós

Sr. Tom Ingram Winfield L.

Sr. Franklin Cerdas Delgado

Ing. Hugo Chavartía B.

Director, Subdivision of Development, Director General, DGOPF

Design Section, Chief, DGOPF

Maintenance and Conservation Section, Chief, DGOPF

Engineering Survey Section, Chief, DGOPF

Engineering Survey Section, Assistant, DGOPF

MOPT Caldera Office, Head

Planning and Design Section, Assistant, DGOPF

Design Section, DGOPF

POSITION

Planning and Development Direction, Chief

Port Operation Direction, Chief

Accounting, Administration and Financial Department

Storage and Port Operation Department.

(54)

The Field Surveys

6.

6.1 The Field Survey Periods

The field surveys in Costa Rica were conducted in the fall of 1985 and the early summer of 1986 as follows :

First Survey	: September 24, 1985 \sim	November 22 1985
나는 것은 물건을 만들었다. 그런 아파 가 먹고 같이 가지요? 나는 것이다.	지수는 것은 것은 것은 것은 것은 것은 것은 것은 것은 것이 없다.	
Second Survey	: May 26, 1986 \sim June	14, 1986

6.2 The First Field Survey Activities

During the first field survey, the study team held a series of discussion with representatives of the Costa Rican government and visited related government and other public offices and private companies in Costa Rica in order to collect data and information necessary for the execution of the study. The study team made several on-site inspections at the Port of Caldera to understand the present situation in detail, and visited related ports in Costa Rica to determine the relationship among these ports. Some study team members executed the natural conditions survey at the Port of Caldera with the full assistance of MOPT and INCOP during the period from Oct. 7 through Nov. 7. Two study team members visited a ship repair facility located in Panamá.

The rough itinerary during the first field survey of the study team is presented below.

Date	Activities
24 th Sep.~25 th Sep.	Departure from Japan
26 th Sep.~28 th Sep.	Meeting with MOPT
	Data collection in San José
29 th Sep.~2 nd Oct.	Field Survey at the Port of Caldera
	Data collection at Caldera and Puntarenas
	Interview survey.
3 rd Oct.~6 th Oct.	Data collection and interview survey in San José
7 th Oct.~9 th Oct.	Field survey in the hinterlands of the ports on
	the Pacific coast
10 th Oct.∼16 th Oct.	Data collection and interview survey in San José
17 th Oct.	Flight tour around the Port of Caldera
18 th Oct.~20 th Oct.	Data collection and interview survey in Caldera and Puntarenas
21 st Oct.~27 th Oct.	Data collection and interview survey in San José
28 th Oct.~29 th Oct.	Field survey in the hinterland of the ports on

30 th Oct.~ 5 th Nov. 6 th Sep.~13 th Nov. 14 th Nov. 15 th Nov.~17 th Nov. 18 th Nov. 19 th Nov. 20 th Nov.~21 th Nov. the Atlantic coast Data collection and interview survey in San José Preparation of the Progress Report Discussion on the Progress Report with MOPT Data collection and field survey in San José Discussion on the Minutes of Meeting with MOPT Courtesy call to the agencies concerned Leave for Japan

6.3 The Second Field Survey Activities

During the second field survey, the study team presnted the Draft Final Report to the Costa Rican Government and had a series of discussions with MOPT, the counterpart agency of the Costa Rican Government, as well as holding seminars for technology transfer in San José and Puntarenas.

Based on the report and the discussions, the study team and MOPT exchanged the Minutes of Meeting, which note that MOPT generally agreed upon the contents of the Draft Final Report.

The rough itinerary during the second field survey of the study team is presented below.

Date	Activities
26 th May ~ 27 th May	Departure from Japan
28 th May \sim 1 st June	Meeting with MOPT
	Field Survey at the Port of Caldera
	Preparation for the seminar
	Interview Survey at IDB in Washington D.C.
2 nd June \sim 4 th June	Presentation of the Draft Final Report
5 th June \sim	Seminar at INCOP
6 th June \sim 9 th June	Discussion on the Draft Final Report
10 th June	Presentation to the Minister and the Vice Minister of MOPT
11 th June	Agreement on the Minutes of Meeting
	Seminar in San José
12 th June \sim 14 th June	Leave for Japan

6. 4 Organizations Visited by the Study Team

Organizations visited by the study team are listed below :

[SPANISH]

[ENGLISH]

Astilleros Balboa, S. A.

Banco Central de Costa Rica

Constructora Costarricense S. A.

Consejo Nacional de Producción

Corporación Zona Franca de Exportaciones y Parques Industriales

Fertilizantes de Centroamérica (Costa Rica) S. A.

Flota Mercante Gran Colombia S. A.

Galvatica S. A.

Tranp. Internacional GASH

Instituto Costarricense de. Ferrocarriles

Instituto Costarricense de Puertos del Pacífico

Junta de Administración Portuaria y de Desarrollo Económico de Vertiente Atlántica.

Laminadora Costarricense S. A.

Liga Agricola Industrial de la Caña de Azúcar Balboa Shipyard Co., Ltd.

Central Bank of Costa Rica

Costa Rican Construction Co., Ltd.

National Production Council

Export Free Zones and Industrial Parks Corporation

Fertilizer Co. of Central America (Costa Rica), Ltd.

Grand Colombia Merchant Marine Fleet Co., Ltd.

Galvatica Co., Ltd.

Tranp. International GASH

Costa Rican Railway Agency

Costa Rican Pacific Ports Authority

Authority for the Port Administration and Economic Development of the Atlantic Coast

Costa Rican Rolling Machine Co., Ltd.

Sugar-manufacturing Industry Corporation

METALCO S. A.

Ministerio de Planeación y Política Económica

Ministerio de Obras Públicas y Transportes

Náutica Centroamericana

Servicio Nacional de Aguas Subterráneas, Riego y Avenamiento

Secretaria Ejecutiva de Planificación Sectorial, Agropecuaria y de Recursos Naturales Renovables

SERVICA S. A.

Talleres Manley S. A.

Técnico en Planificación

Tempisque Ferry Boat S. A.

Textiles Industriales de Centroamérica S. A.

METALCO Co., Ltd.

Ministry of Economic Planning

Ministry of Public Works and Transport

Central American Navigation Co., Ltd.

National Agency for Underground Water Irrigation and Drainage.

Executive Secretary's Office for Sectoral Planning, Agriculture and Renewable Natural Resources.

SERVICA Co., Ltd.

Talleres Manley Co., Ltd.

Technical Planning Co., Ltd.

Tempisque Ferry Boat Co., Ltd.

Central American Textiles Industry Co., Ltd.

STUDY RESULTS

CHAPTER I.-XII.

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CHAPTER I OUTLINE OF COSTA RICA

1. Geography

Costa Rica extends from latitude N 11°13' to N 8°02'. It is a narrow country, located roughly between longitude W 83° and W 86°, comprising part of the Central American isthmus. Costa Rica is bordered on the north by Nicaragua, on the south by Panama, on the west by the Pacific Ocean and on the east by the Atlantic Ocean.

The area of Costa Rica is about 51,000 km². The maximum length of the country from the Nicaraguan border to the Panamanian border is 484 km; its minimum width from the Pacific Ocean to the Atlantic Ocean is 119 km.

Mountain ranges run the length of Costa Rica from the northwest to the southeast, separating the Pacific and the Atlantic coastal areas. A volcanic range, the Guanacaste Mountains, begins near Nicaragua and meets the volcanic Central Mountains, which end in the center of the country. A higher non-volcanic range, the Talamanca Mountains, runs from the center to the southeastern border. There are more than ten peaks over 3,000 m in the Central Mountains and the Talamanca Mountains.

The Atlantic slope is mostly broad, gradual, and gentle; the Pacific slope is narrow, steep and hilly. There are rain forests in the northeast near the Atlantic Ocean and in the southwest lowlands on the Pacific side which still cover about a quarter of the country's area. By contrast, the tropical dry forest of the northwest has a long and severe dry season.

2. Demographic Profile

2.1 Transition of Population

According to the Census of June 1984 executed by DGEC/MEIC, the population of Costa Rica in 1984 is 2,416,809.

Not until 1976 did the population pass the two million mark. The increase rate of the population has been gradually slowing down as shown in Table I -1. The growth rate in the 1960's was 3.25% per year, and the rate decreased to 2.66% per year in the 1970's. The decline of the population increase rate is mainly due to a decrease in the birth rate.

2. 2 Distribution of the Population

Casta Rica is composed of seven provinces divided into cantons which have many districts. There are a total of 81 cantons and 415 districts in the country. The area and the population of the provinces in June 1984 are shown in Table I-2. The transition of the population by province from 1973 to 1984 is shown in Table I-3.

According to the Census of June 1984, 63% of the Costa Rican people live in the Central Valley. The Central Valley is the area where the Central Mountains and the Talamanca Mountains nearly meet, and the valley runs from San Ramón in the west to Turrialba in the east. Altitudes on the valley floor range from about 800 m to 1,500 m averaging about 1,000 m.

		1.141			
Year	Population on July 1st			Annual Increase Rate (%)	
1960	1,254,055			4.53	
1965	1,489,825			3.53	
1970	1,727,367			2.50	
1975	1,968,438			2.44	
1976 1977	2,017,986 2,070,560		ана 1917 - Ал	2.52 2.61	
1978	2,125,620	. I.		2.66	
1979	2,183,625			2.73	
1980	2,245,437		1	2.83	
1981	2,307,290		e spie	2.75	
1982	2,371,519			2.78	

Table I-1 Population in Costa Rica

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Source : Anuario Estadístico de Costa Rica, 1982 DGEC/MEIC

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Table I-2	Area and	Population	of Each	Provine	ce in Jun	e 1984		
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Province	Popula	ition	Area	1 (k a ř)
San José	890,434	36.8%	4,960	9.7%
Alejuela	427,962	17.7	9,753	19.1
Cartago	271,671	11.2	3,125	6.1
Heredia	197,575	8.2	2,657	5.2
Guanacaste	195,208	8.1	10,140	19.9
Puntarenas	265,883	11.0	11,276	22.1
Limón	168,076	7.0	9,189	18.0
TOTAL	2,416,809	100.0	51,100	100.0

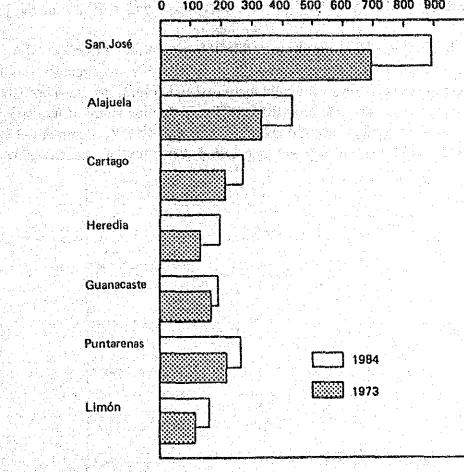
Source: Octavo Censo Nacional de Población, Junio 1984 DGEC/MEIC

-2

Province	198	C	1973	3	Difference
San José	890,434	36.8%	695,163	37.1%	195,271
Alajuela	427,962	17.7	326,032	17.4	101,930
Cartago	271,671	11.2	204,699	10.9	66,972
Heredia	197,575	8.2	133,844	7.2	63,731
Guanacaste	195,208	8.1	178,691	9.5	16,517
Puntarenas	265,883	11.0	218,208	11.7	47,675
Limón	168,076	7.0	115,143	6.5	52,933
Total	2,416,809	100.0	1,871,780	100.0	545,029
i Linder in Statistic Andreas ter		•	(Capital Science)		

Table I-3Population Census by Provice on July 10,
1984 and on May 14, 1973Unit : persons

Unit: '000 persons 0 100 200 300 400 500 600 700 800 900



Source: Octavo Censo Nacional de Población, Junio 1984 DGEC of MEIC

Fig. I-1 Population by Province

3. Economic Profile

3.1 Economic Activities

Costa Rica maintained high economic growth throughout the 1960's and most of the 1970's. The averge annual growth rate of 5.1% in the early 1960's went up to 7.0% in the latter 1960's. The growth rate in the early 1970's was about 6.0%.

However, as shown in Table 1 -4, the economic growth rate rapidly declined from 1978. This decrease was mainly due to the fall in coffee prices and the second oil shock.

In 1984, the country's economic growth rate reached 6.3%, but due to the negative growth in the intervening years, the Costa Rican economy has only recently recovered the level of economic activity achieved in 1980.

3. 2 Industrial Structure

Until the end of the 1950's, the Costa Rican economy was mainly supported by agriculture and stock raising. More than 50% of the labour force was working in the primary sector.

Industrialization in Costa Rica was promoted by the foundation of the Central American Market which was formally established in 1963. Protected by this arrangement, the share of industry in the Costa Rican economy gradually increased and in 1975, as shown in Table I -5, accounted for 21% of gross domestic production. The production share of industry in 1984 was 21.9%, the share of agriculture and stock raising was 20.3%, commercial services accounted for 16.2% and the government accounted for 9.9% of the Gross Domestic Product.

				Unit: million colones
			Constant Price (1966 ba	isis)
Year	Current Price	Deflator	Constant Price	Annual Growth Rate
1960	2,860.5	0.9238	3,096.5	6.1%
1965	3,928.5	0.9882	3,975.5	9.8
1966	4,288.4	1.0000	4,288.4	7.9
1967	4,633.9	1.0228	4,530.7	5.7
1968	5,126.7	1.0432	4,914.6	8.5
1969	5,655.3	1.0908	5,184.5	5.5
1970	6,524.5	1.1706	5,573.5	7.5
1971	7,137.0	1 1992	5,951.3	6.8
1972	8,215.8	1.2761	6,438.0	8.2
1973	10,162.4	1.4655	6,934.3	7.7
1974	13,215.7	1.8057	7,318.8	5.5
1975	16,804.5	2.2489	7,472.5	2.1
1976	20,675.6	2.6222	7,884.8	5.5
1977	26,330.7	3.0664	8,586.9	8.9
1978	30,193.9	3.3089	9,125.1	6.3
1979	34,584.4	3.6332	9,575.8	4.9
1980	41,405.5	4.2917	9,647.8	0.8
1981	57,102.7	6.0557	9,429.6	-2.3
1982	97,505.1	11.1529	8.742.6	-7.3
1983	126,337.1	14.1195	8,947.7	2.3
1984	151,303.8	15.9050	9,513.0	6.3

Table I-4 Economic Growth in Costa Rica

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Source: Cilras de Cuentas Nacionales de Costa Rica, BCCR

			Unit : mi	llion colones
	1970	1975	1980	1984
Agriculture and	(24.1%)	(21.2%)	(18.0%)	(20.3%)
Stock Raising	1,343.6	1,585.7	1,736.1	1,929.4
Industry	(18.6)	(21.2)	(22.0)	(21.9)
	1,036.3	1,585.1	2,119.6	2,080.1
Electric Power	(1.9)	(2.1)	(2.3)	(3.3)
and Water Services	106.4	156.1	224.9	315.4
Construction	(4.1)	(5.1)	(6.2)	(4.1)
	229.1	384.7	602.7	390.5
Commercial Services	(19.9)	(17.2)	(18.0)	(16.2)
	1,109,5	1,288.0	1,740.8	1,544.7
Transportation and	(4.4)	(5.8)	(7.0)	(7.0)
Communication	247.7	432.2	676.4	668.1
Financial Services	(3.9)	(4.8)	(5.2)	(5.5)
na an a	216.1	359.5	500.4	521.3
Real Estate	(8.0)	(7.6)	(6.9)	(7.4)
가장에 가지 않는 것 같이 가지, 가지 있다. 같은 것은 것이 아니는 것 같은 것 같이 있는 것이 있는 것이 있는 것이 있다. 것이 있는 것이 있는 한	447.7	564.8	664.7	699.3
Goverment	(9.9)	(10.3)	(10.0)	(9.9)
사망 역사 가 있는 것이 가 있습니다. 이 사망 가 있는 것이 가 있는 것이 하는 것이 하는 것이 하는 것이 하는 것이 하는 것이 하는 것이 같이 않는 것이 같이 않는 것이 하는 것이 하는 것이 하는 것이 하는 것이 하는 것이 하는 것이 하 같이 같이 같	549.2	769.8	966.7	945.2
Others	(5.2)	(4.6)	(4.3)	(4.4)
	287.9	344.6	415.5	419.0
Total	(100.0)	(100.0)	(100.0)	(100.0)
	5,573.5	7,472.5	9,647.8	9,513.0

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Table I-5 Gross Domestic Product by Sector 1

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Note : (1) GDP at 1966 Constant Prices (2) Source : BCCR

4. Foreign Trade

4.1 Exports

As shown in Table I-6, exports increased at an average annual rate of about 5% in the latter 1960's, and by more than 15% per year in the early to middle 1970's. Attaining the highest rate in 1977, the annual growth rate of exports declined rapidly thereafter, and in 1982 exports decreased at a rate of 13.7% per year. The decreased growth rate of the value

	Export	(F.O.B.)	Impor	t (C.I.F.)	
	Amount	Increase Rate	Amount	Increase Rate	Difference
1960	85.8		110.4		-24.6
1965	111.8	-1.8%	178.2	28.6%	-66.4
1966	135.5	21.2	178.5	0.2	-43.0
1967	143.8	6.1	190.7	6.8	-46.9
1968	170.8	18.8	213.9	12.2	-43.1
1969	189.7	11.1	245.1	14.6	
1970	231.2	21.9	329.1	34.3	-97.9
1971	225.4	-2.5	349.7	6.3	-124.3
1972	280.9	24.6	372.8	6.6	91.9
1973	344.5	22.6	455.3	22.1	-110.8
1974	440.3	27.8	719.7	58.1	-279.4
1975	493.3	12.0	693.9	-3.6	-200.6
1976	592.9	20.2	770.4	11.0	-177.5
1977	828.2	39.7	1.021.4	32.6	-193.2
1978	864.9	4.4	1.165.7	14.1	300.8
1979	934.4	8.0	1,396.8	19.8	-462.4
1980	1,001.7	7.2	1,523.8	9.1	-522.1
1981	1,008.1	0.6	1,208.5	-20.7	-200.4
1982	870.4	-13.7	893.2	-26.1	-22.8
1983	882.4	1.4	988.5	10.7	-106.1
1984	952.6	8.0	1,091.8	10.5	-139.2

Table I-6 Foreigh Trade in Costa Rica

of exports after 1977 is mainly due to the fall in the price of coffee as shown in Table I-7. Most Costa Rican exports are traditional agricultural products, such as coffee and bananas. As shown in Table I-8, the share of traditional export products in 1965 was 81% of the total exports. However, with the progress of industry, the share of traditional products in total exports was reduced to 60.3% in 1983.

As shown in Table I-9, over half of the Costa Rican exports are shipped to the United States and to Central American Common Market (CACM) countries. However, the 52% share of the United States in 1960 has declined to about 30% of total exports in the 1980's.

4. 2 Imports

As shown in Table I-6, imports increased at an annual rate of about 10% in the early 1960's, and the rate of increase grew to about 17% per year in the latter 1970's.

However, as Costa Rica suffered a trade deficit of over \$500 million in 1980, the national government introduced a policy to restrict imports, and imports were successfully reduced in 1981 by 20.1% and in 1982 by 26.1% over the respective previous years.

The shares of major commodity groups in total imports in 1983 are 24.5% for chemical products, 23.4% for semimanufactured goods, 18.6% for fuel and lubricants, 14.7% for transport machinery and materials and 9.6% for foods as shown in Table I-10. The share of fuel and lubricants increased from 10.6% in 1975 to 18.6% in 1983, and the share of chemical products increased from 19.2% in 1975 to 24.5% in 1983 due to the rise in oil price. The share of transport machinery and materials decreased from 31.5% in 1979 to 14.7% due to the import restriction policy.

In 1983, 38.4% of the total imports were from the United States. Imports from Japan accounted for 13.4% of the total in 1977. However, because of the reduction of vehicle and steel imports, the Japanese share was reduced to 4.2% of the total imports in 1982 as shown in Table I-11.

Table I-7 Exports of Coffee and Bananas (FOB)

		Coffee			Bananas	
	46kgf Sacks ('000)	Total Exports (Million \$U.S.)	Price Per Sack (\$U.S.)	Volume ('000 MT)	Total Exports (Million \$U.S.)	Price Per kgf (\$U.S.)
1965	1,050	46.6	44.43	316	28.3	60.0
1970	1.502	73.1	48.66	856	66.8	0.08
1971	066'T	59.3	42.67	922	64.0	0.07
1972	1.871	6.77	41.61	1,078	82.8	0.08
1973	1,585	64.0	59.31	1,179	90.7	0.08
1974	1,959	124.8	63.67	1,038	98.3	0.09
1975	1,673	6.96	57.93	1,105	144.1	0.13
976	1, 397	153.9	110.18	1,069	148.7	0.14
1977	1.470	319.2	217.17	1,003	150.3	0.15
1978	1,877	313.7	167.10	1,058	169.9	0.16
1979	2,117	315.4	148.95	1,025	190.5	0.19
1980	1,559	247.9	158.94	973	207.5	0.21
1981	2,093	240.0	114.68	1,002	224.8	0.22
1982	2.040	236.9	116.14	1,013	228.1	0.23
1983	2,352	230.0	97.74	1.007	233.1	0.23
Note: (1) (2)		Source : PRINCIPALES ESTADISTICAS S Prigures for 1983 are preliminary.	OBRE LAS TRANSAC	CIONES DE COST	ESTADISTICAS SOBRE LAS TRANSACCIONES DE COSTA RICA CON EL EXTRANJERO, BCCR climinary.	VJERO, BCCR

2 Sel Galetado

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Table I-8 Composition of Exports (FOB)

(41.7%) (31.7%) (19.7%) (46.6 73.1 97.0 97.0 46.6 73.1 97.0 97.0 46.6 73.1 97.0 97.0 as (25.2) (28.9) (29.2) (25.2) (28.9) (29.2) 5.3 (25.2) (66.8 144.2 (10.8) (2.2) (1.8) (7.7) 5.3 (2.2) (1.8) (7.7) 5.3 (2.2) (1.8) (7.8) (7.7) 66.8 1.81 38.0 (7.7) 6.7 1.81 38.0 (7.7) 6.7 10.1 4.4 (9.8) 4.7 10.1 4.82 1.83 5.2 1.81 38.0 (7.7) 6.7 (3.2) (1.0) (3.7) 6.7 3.2 1.01 4.2 (1.0) 6.7 1.01 4.4 (9.8) (7.1) 6.7 3.6 2.4	(25,9%) (38,5%) 153.9 (38,5%) (25.1) (18.1) 148.6 150.3 (12) (18.1) (12) (18.1) (12) (18.1) (12) (18.1) (12) (18.1) (12) (18.1) (12) (18.1) (12) (13.1) (12) (5.9) 45.5 51.3 (28) (1.7) (28) (1.7) (28) (1.7)	(36.2%) 313.6 (19.6) 169.9 15.1 15.1 (1.7) 15.1 (1.3) (1.3) (1.3)	(33.8%) (315.55 (20.4)((24.7%) (24.7%) (20.7) (20.7) (0.4) (4.2) (1.2) (1.2) (1.1) (1.1)	(23.8%) 240.1 (22.3) 224.8 (0.3) 2.7 (7.6) 76.5	(27.2%) 236.9 (26.2) 228.1 228.1 (0.3) 2.4 (6.3) 54.7	(26.5%) 229.4 (26.8) 233.1 233.1 (0.1) (0.1) (35)
as (25.2) (28.9) (29.2) 28.2 66.8 $144.2(2.0)$ (0.8) $(10)(2.2)$ (2.0) (0.8) $(7.0)(2.2)$ (2.0) (0.8) $(7.7)(2.1)$ (2.8) $(7.7)(2.1)$ (2.8) $(7.7)(2.1)$ $(2.1)(2.1)$ (2.2) (2.1) (2.2) $(2.1)actured (14.2) (22.1) (24.0)$		(19.6) 169.9 (1.7) 15.1 15.1 (1.3) 61.5 (1.3) (1.3)	(20.4) 190.5 (1.0) 9.7 (8.8) 8225 (1.9) 17.5	(20.7) 207.5 (0.4) 4.2 71.8 71.8 (4.1)	(22.3) 224.8 (0.3) 2.7 (7.6) 76.5	(26.2) 228.1 (0.3) 2.4 (6.3) 54.7	(26.8) 233.1 (0.1) 10 (35)
(2.0) (0.8) (1.0) 2.2 1.9 5.3 2.2 1.9 5.3 (4.7) (7.8) (7.7) 5.2 1.81 38.0 5.2 1.81 38.0 5.2 1.81 38.0 5.2 1.81 38.0 5.2 1.81 38.0 4.7 10.1 4.82 4.7 10.1 4.82 4.7 10.1 4.82 4.7 10.1 4.82 4.7 10.1 4.82 2.4 1.83 3.7 2.6 2.4 1.83 0.5 172.4 351.0 172.4 351.0 172.4 2.74 351.0 $1.72.0$ $1.72.4$ 351.0 $1.74.0$		(1.7) 15.1 (7.1) 61.5 (1.8) 15.9	(110) 9.7 (88) 8225 8225 (19) 175	(0.4) 4.2 (7.2) 71.8 (4.1)	(0.3) 2.7 76.5	(0.3) 2.4 (6.3) 54.7	(I.0) 1.0
(4.7) (7.8) (7.7) 5.2 18.1 38.0 5.2 18.1 38.0 5.2 18.1 38.0 4.7 (4.4) (9.8) 4.7 10.1 48.2 2.4 18.3 3.7 2.6 2.4 18.3 3.6 2.4 18.3 3.6 2.4 18.3 3.6 2.4 18.3 3.6 2.4 18.3 3.6 2.4 3.7 3.6 172.4 351.0 6.7 90.5 172.4 351.0 2.4 18.3 351.0 172.4 351.0		(113) (113) (113) (113) (113)	(8.8) 82.5 (1.9) 17.5	([.4.1] ([.4.1] ([.4.1]) ([.4.	(7.6) 76.5	(. 6.3) 54.7	<u></u> (⇒)
(42) (44) (98) 47 101 482 2cr (32) (10) 482 36 24 183 of Tradi- (810) (745) (711) Exports 90.5 172.4 351.0 actured (142) (22.1) (240)		(118) 15:9 7 1 3)	(1.9)	(4.1) 7.07			30.7
cer (3.2) (1.0) (3.7) 3.6 2.4 18.3 of Tradi- (81.0) (74.6) (71.1) Exports 90.5 172.4 351.0 actured (14.2) (22.1) (24.0)		1. 1. 1		→ >	(4.2) 42.0	(1.9) 16.6	(2.7) 23.9
of Tradi- Exports (81.0) (74.6) (71.1) 90.5 172.4 351.0 actured (14.2) (22.1) (24.0)		11.0	(T.0) 9.3	(1.0) 10.0	(1.5) 15.6	(6:0) (6:0)	(0.7) 5.7
actured (14.2) (22.1) (24.0)	(66.9) (68.5) 396.3 567.2	(67.9) 587.0	(66.9) 624.9	(58.1) 582.1	(59.7) 601.7	(62:8) 546.6	(60.3) 523.8
C0003	(28.2) (26.1) 167.6 216.0	(24.6) 213.1	(27:0) 252.5	(33.4) 334.0	(34.2) 345.2	(30.7) 267.1	(39.7)
Other Agricultural(4.8)(3.3)(4.9)and Marine Products5.47.724.0	(4.9) (5.4) 29.0 45.0	(7.5) 64.8	(6.1) 56.9	(8.5) 85.6	(6.1) 61.2	(6.5) 56.7	344.5
Grand Total (100.0) (100.0) (100.0) (100.0) (1 111.8 231.2 493.3 E	(100.0) (100.0) 592.9 828.2	(100.0) 864.9	(100.0) 934.4	(100.0) 1,001.7	(100.0) 1,008.1	(100.0) 870.4	(100.0) 869.3

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	Table I-9 8	Aain Destinati	ons for Expor	ts (FOB)	Unit : Million US
	1977	1980	1981	1982	1983
САСМ	(21.0%)	(27.0%)	(23.6%)	(19.2%)	(22.0%)
	173.8	270.3	238.0	167.2	191.0
United States	(29.9)	(32.7)	(30.1)	(30.0)	(30:9)
	247.7	327.5	303.5	261.2	268.4
Panamá	(2.7)	(4.1)	(4.6)	(4.7)	(4.0)
	22.5	41.4	46.2	40.7	34.6
West Germany	(12.9)	(11.6)	(12.2)	(14.0)	(13.6)
	106.8	116.3	123.3	122.2	117.9
Finland	(4.4)	(2.6)	(1.7)	(2.2)	(3.8)
	36.1	25.6	17.5	19.3	33.1
England	(0.2)	(0.3)	(1.0)	(3.0)	(2.5)
	2.0	2.7	10.5	26.1	22.1
Italy	(2.1)	(4.2)	(2.9)	(3.6)	(2.9)
	17.6	42.2	29.1	31.6	25.2
Others	(26.8)	(17.5)	(23.9)	(23.3)	(20.3)
	221.7	175.5	240.0	202.1	177.0
Total	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)
	828.2	1,001.7	1,008.1	870.0	869.3

Note : (1) Source : PRINCIPALES ESTADISTICAS SOBRE LAS TRANSACCIONES DE COSTA RICA CON EL EXTRANJERO, BCCR
 (2) Figures for 1983 are preliminary.

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Unit: Million USS (24.5) 242.8 (23.4) 231.2 (0.5) 5.4 (20) 54.0 (100.0) 988.5 0.5) 5.1 0.5) (18.6) 183.6 (14.7) (9.6%) 95.1 2.5) 24.4 145.0 1983 (18.3) (44) 39.7 (6.0 7.9 (100.0) 893.2 (8.1%) 72.5 (0.5) 4.8 (21.2) 188.9 (05) 45 (21.1) 188.2 (25) 22.6 (22.5) 200.6 1982 (22.4) 271.0 (100.0) 1,208.5 (19.6) 237.4 (0.6) 7.6 (17.0) 205.3 (0.6) 7.3 (23.5) 283.2 (7.6%) 92.3 (5.7) 68.4 (0.8) 9.6 (2.2) 26.4 1981 (100.0) 1,523.8 (22.9) 348.9 (25.0) 380.9 (18.0) 273.7 (7.2) (0.5) 8.2 (15.0) 229.1 35.7 (0.8) 11.5 (7.6%) (0.7) 1980 Table I-10 Composition of Imports (CIF) (100.0) 1,396.8 6.4%) (22.1) 309.1 (31.5) 439.4 (6.8) 95.6 (0.1) (0.6) 8.4 (13.6) 189.5 (16.4) 229.2 (1.9) 26.5 (0.6) 8.4 1979 (100(0) 1,165.7 (0.0) 7.0 (24.9) 290.0 (30.7) 359.2 (7.9) 91.8 (0.9) 10.7 (6.2%) 72.5 (1.6) 18.3 (0.8) 8.9 (16.3) (189.6 (10.1) 1978 (100.0) 1,021.4 (17.2) 175.2 (11) (6.5%) 66.7 (31.3) 318.8 (6.7) 68.6 (0.5) 5.6 (1.9) 19.6 (0.7) (24.1) 245.7 (10.0)102.2 1977 (7.2%) 55.6 (0.7) (0.4) 3.0 (2.1) (25.6) (30.4) 234.4 (...6.3) 48.6 (100.0) 770.4 (.9.6) (0.9) 7.2 (16.8) 129.5 1976 (100.0) 694.0 (8.5%) 59.2 (0.4) 2.5 (10.6) 73.8 (26.8) 186.1 (5.9) 40.7 (0.6) 4.0 (1135 (6.0) 6.0 (19.2) 133.1 (25.2) 1975 Semimanufactured Goods Tobacco and Beverages Animal and Vegetable Oil and Fat Raw Materials except Transport Machinery Fuel and Lubricants Other Manufactured Chemical Products and Materials Others. Goods Foods Total Fuel

Note:(1) Source: PRINCIPALES ESTADISTICAS SOBRE LAS TRANSACCIONES DE COSTA RICA CON EL EXTRANJERO, BCCR (2) Figures for 1983 are preliminary.

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	Table I-1	1 Main Origi	ns of Imports	(CIF)	Unit : Million US\$
	1977	1980	1981	1982	1983
САСМ	(16.4%)	(14.4%)	(12.6%)	(12.6%)	(12.1%)
	167.9	219.8	152.3	112,4	120.1
United States	(33.5)	(33.0)	(33.2)	(35.5)	(38.4)
	342.6	502.1	401.1	316.8	379.2
Panamá	(1.2)	(2.0)	(1.7)	(1.3)	(1.8)
	12.1	30.2	20.3	11.8	17.4
Mexico	(2.3)	(6.4)	(9.2)	(9.0)	(8.1)
	23.4	96.9	110.7	80.3	79.9
Venezuela	(3.5)	(6.9)	(7.6)	(12.0)	(7.4)
	35.6	105.2	92.0	107.3	73.4
West Germany	(5.4)	(4.7)	(4.6)	(3.9)	(4.9)
	55.6	70.9	55.4	35.1	48.1
Japan	(13.4)	(11.2)	(9.8)	(4.2)	(5,4)
	136.4	171.3	118.3	37.2	53.0
Others	(24.3)	(21.4)	(21.3)	(21.5)	(21.9)
	247.8	327.4	258.4	192.3	217.4
Total	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)
	1,021.4	1,523.8	1,208.5	893.2	988.5

Table I-11 Main Origins of Imports (CIF)

Note: (1) Surce : PRINCIPALES ESTADISTICAS SOBRE LAS TRANSACCIONES DE COSTA RICA CON EL EXTRANJERO, BCCR

-12-

4.1

(2) Figures for 1983 are preliminary.

Transportation

5

5.1 General Outlook

The total Costa Rican international trade cargo volume is about 1.72 million tons for imports and 1.76 million tons for exports in 1984. The import cargo volume is almost the same as the export cargo volume. The import cargo volume decreased in 1981 and 1982. However, it turned to an increase in 1983 and 1984. The export cargo volume increased in every recent year except for 1981. Especially, it drastically increased in 1984.

Maritime transportation took a share of 91.4% for imports and 92.6% for exports in the international trade cargo volume in 1984. Thus, maritime transportation is the major transportation mode for Costa Rican international trade as shown in Table I-12 and Fig. I-2.

5. 2 Maritime Transportation

There are several major shipping routes around Costa Rica. Major ports of call for the major shipping lines are the Ports of Caldera and Puntarenas on the Pacific coast, and the Ports of Limon and Moin on the Atlantic coast. The major shipping routes are shown in Table I – 13 and Fig. I – 3. However, according to INCOP, the full-container service between the Port of Caldera and Europe stopped from the end of 1984. Table I – 14 shows the international cargo throughput at the Ports of Caldera and Puntarenas by trade counterpart region. The shares of the USA and Japan are 54.8% and 11.8% in 1984, respectively.

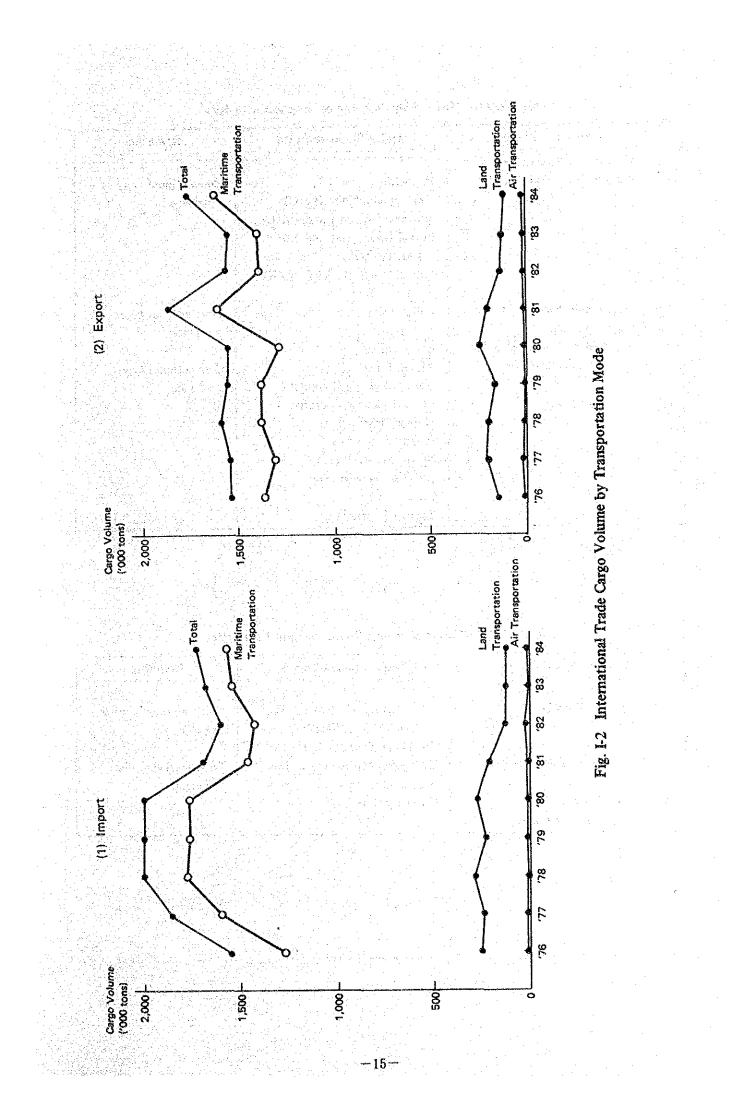
5.3 Land Transportation

5. 3. 1 Railway Transportation

There are three railway networks in Costa Rica (refer to Fig. I-4). The Pacific railway which runs between the Ports of Caldera and Puntarenas and San José, and the Atlantic railway which runs between the Ports of Limón and Moin and San José are owned and operated by the national company, INCOFE. Although both of these lines terminate at San José, they are not interconnected. The routes are steep and winding in the mountainous areas. INCOFE has been under a sort of organizational reform due to its financial problems. Along with this reform, its name was changed from the former name, FECOSA, to the present name, INCOFE, in October 1985.

The third railway line is located on the Pacific side in the southern part of the nation and leads to an adjacent country, Panamá. This line has been developed and operated by a private fruit company. The number of passengers and cargo volume transported by each of the three railways in 1984 are shown in Table I-15. The distances by railway between major cities are shown in Table I-16. Table I-12 International Trade Cargo Volume by Transportation Mode

tons		%	91.4 91.4 7.1 0.7	100.0 92.6 6.5 0.9	
Unit: '000 tons		1984	1723.7 1575.7 97.6 24.2 12.3 12.3 -	100.0 1762.1 1631.5 7.8 <u>115.4</u> 91.1 24.3 0.9 <u>15.1</u>	
		%	92.2 92.2 7.3	100.0 7.8 0.9 0.2	
		1983		1548.3 1410.7 92.5 28.9 28.9 28.9 2.2	
		%	$\begin{array}{c c} 100.0 & 1678.9 \\ 89.8 & 1547.7 \\ 8.5 & 1232 \\ 9.6 & 23.6 \\ - & 0.1 \\ - & 0.1 \\ - & 0.1 \\ \end{array}$	100.0 88.8 8.6 8.6 0.8 1.8	
		1982	1598.7 1 1435.8 125.9 10.5 26.4 0.1		
		%	00.0 86.6 12.7 0.7	100.0 86.9 10.9 1.6	
		1861	1685.8 1 1460.6 197.8 16,0 11.2 0.2	1870.9 100.0 1574.3 1626.0 86.9 1397.1 204.7 10.9 135.7 171.2 10.3 32.4 33.5 0.6 125.5 29.0 16 29.0	
		%	100.0 86.2 13.2 0.6	100.0 83.7 15.7 0.6	
	Year	1980	2056.4] 27222 2722 2722 228.1 44.1 44.1 	1545.1 1545.1 292.9 206.9 35.3 	
		%	100.0 87.6 J 11.5 J 0.9	100.0 88.2 10.7 0.6 0.5	일 사용 이 방향은 가장은 가장을 가장을 가 있다. 이는 것은 이 이는 지지 않은 것은 가장을 갖추지 않는 것이다.
		1079	2021.3 1 1771.6 232.1 232.1 232.1 19.1 19.1 19.1 19.1	1565.3 1 1565.3 1 167.2 127.6 39.6 7.1	
		%	100.0 85.6 13.6 13.6	100.0 86.8 12.7 	TGO
		1978	2034.4] 284.3 284.3 236.7 47.6 0.2	1592.5 1 1383.1 201.9 165.7 36.2 7.5	VA300
		%	100.0 85.9 13.3 13.3	100.0 85.0 13.7 1.3	861 1988 - State Stat
		1977	1863.5 1 1601.0 248.0 194.7 53.3 53.3	1544.2 1 1313.3 210.8 174.3 36.5 20.1	SPORTE
		%		0.8	
 .		1976	1546.9 100.0 1278.0 82.6 257.9 16.7 222.0 35.9 35.9 0.1	1539.0 100.0 1370.2 89.0 157.1 10.2 116.9 40.2 11.7 0.8	
			tation on torth border south border	tation on north border south border	Source: CUADROS ESTADISTIOCOS SOBRE SECTOR TRANSPORTES 1984 DCP/MOPT
فلالها والمحادثات والمحالي والمحالي والمحالية المحالية المحالية المحالية المحالية المحالية المحالية والمحالية			[[MPORT] Total Maritime Transportation Land Transportation Through the north Through the south Air Transportation Mail Others	[EXPORT] Total Maritime Transportation Land Transportation Through the north Air Transportation Others	Source: CUADROS ES



Major Shipping Routes	Major Shipping Lines	Remarks
(Through the Port of Caldera)		
P-1. Far East~Central America	Flota Mercante	Conventional type
	Grancolombiana (FMG)	service
	Kawasaki Kisen Kaisha (KL)	
	Mitsul OSK Lines and Japan	
	Line (MO/JL)	
	Nippon Yusen Kaisha (NYK)	
	Nedlloyd (NL)	
P-2. North American Gulf Coast	Lykes Lies	Conventional type
~Central America		service
P-3. Argentine~Central America	Elma Lines	
P-4. Europe~Central America	Alpina Line	Conventional type
	Baltic Shipping Company	service
	Central America Service	
	Hapag-Lloyd Ag	
	Independence Line	
	Polish Ocean Line	
	P.V. Christensen Line	
	Sirius S.A.	
	Transp. Española	

Table I-13 (1) Major Shipping Routes around Costa Rica

	· · · · · · · · · · · · · · · · · · ·	승규는 이 가슴을 가지 않는 것이 같다. 것
Major Shipping Routes	Major Shipping Lines	Remarks
(Through the Port of Limón)		
A-1. Europe~Caribbean Sea	Carol Group (HAPAG, NED,	Full container service
	HARRISON, CGM)	RO/RO
	Caribbean Oveseas Line	
A-2. Round the World Service	Evergreen Marine Corp. Ltd.	Feeder service via
(Eastbound)	Sea-Land Service Inc.	Kingston
A3. East Coast of USA	Contship S.A.	

~Caribben Sea~Europe

Table I-13 (2) Major Shipping Routes around Costa Rica

-16-

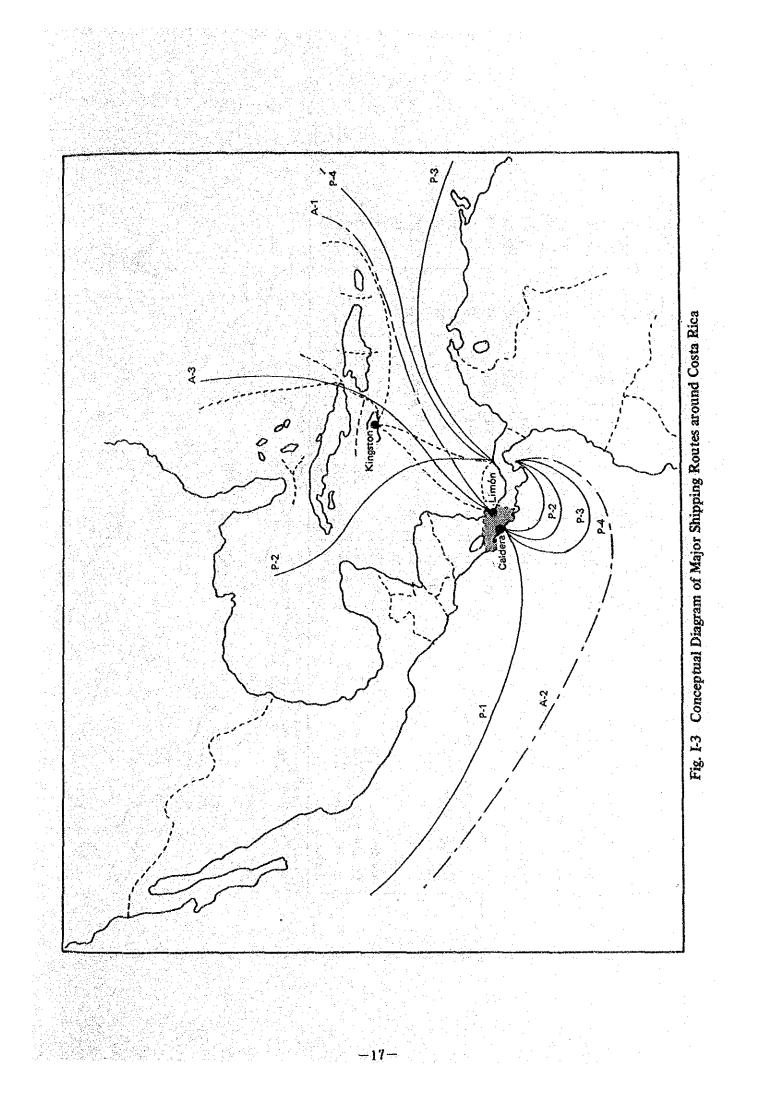
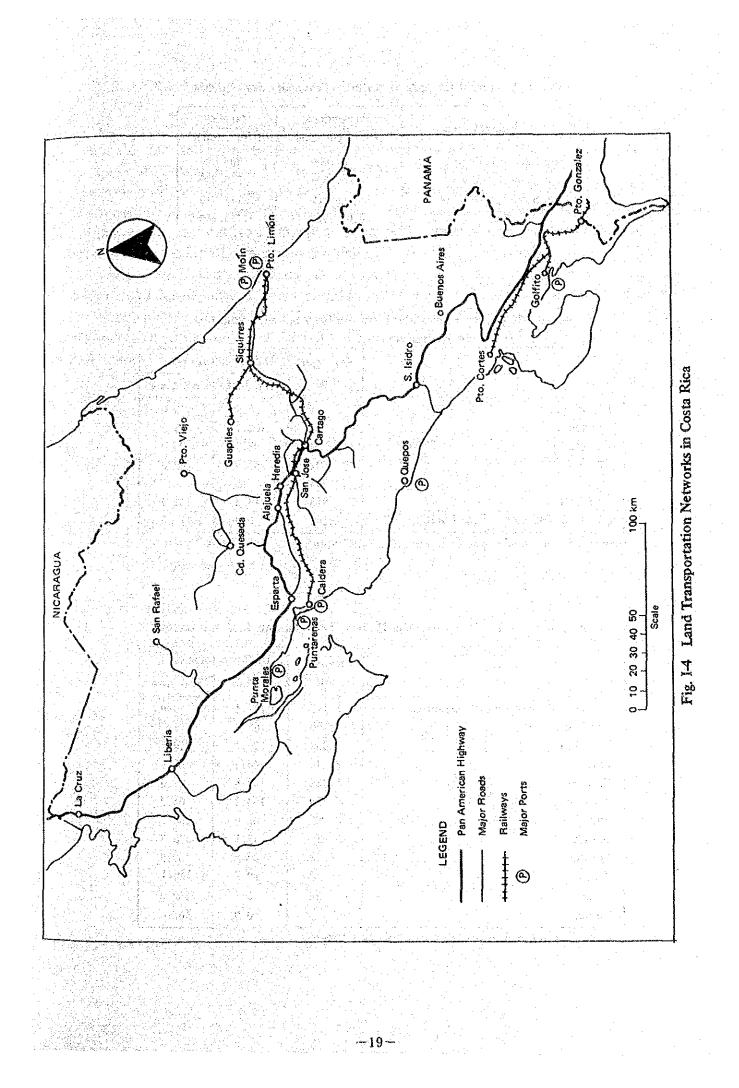


Table I-14 Counterpart Regions of the Ports on the Pacific Coast

TOTAL Central American Common Market		2001			1964		
TOTAL Central American Common Market	Total	Imports	Exports	Total	Imports	Exports	
Central American Common Market	277,557	200,986	76,571	585,505	356,560	228,945	
	84	88	48	10.169	3,640	6.529	· .
Latin American Free Trade Association	34,263	25,232	9,031	85.240	27,303	57,932	
	19	19	ł	110	06	50	
Other Latin American Countries	23,112	29	23,083	5,594	3,115	2,479	
North America	163,665	128,220	35,445	325,618	202,357	123,261	
(USA)	(159,889)	(124,730)	(35,159)	(310,146)	(188,128)	(122,018)	
European Economic Community	6,117	3,606	2,511	50,368	23,416	26,952	
Other European Countries	512	52	460	1,362	276	1,086	
Asia	33,797	28 704	5,093	88,682	85,694	2,988	
(Japan)	(22, 111)	(18,157)	(3,954)	(69.429)	(66,820)	(2,609)	
Oceania	81		81	161	4	157	
Middle East	6	1	6			 	
Caribbean Free Market	}_	1	1	10.735	10,660	22	
Eastern Europe	1		1	7,260	1	7,260	
Africa	15,898	15,086	812	206	1	206	
Source : Informe Estadistico Año 1983, 1984, INCOP							1
vote : Cargo volume at the Ports of Caldera and Funtai	renas						
					•		



Railway	Passengers (Unit : persons)	Cargoes (Unit : tons)
the Pacific railway	727,659	306,930
the Atlantic railway	1,254,698	778,039
the Southern railway	18,576	111,015
Total	2,000,933	1,195,984

Table I-15 Actual Records of Railway Transportation in 1984

가지 가장 물기

1.1

 Table I-16 (1)
 Distances along the Railway between San José

 and Puntarenas

		Elevation	Distance	iorm (km)
	City	(m)	San José	Puntarenas
Puntarenas		4	115.9	0.0
Barranca		28	102.4	13.5
Caldera		4	92.9	23.0
Orotina		224	66.6	49.3
Dantas		265	59.2	56.7
San Antonio		913	14.5	101.4
San José, Estac	ión F.E. al Pacifico	1,142	0.0	115.9

Source: Anuario Estadístico de Costa Rica, 1984, DGEC/MEIC

City	Elevation	Distance	form (km)
	(m)	Limón	San José
San José Estación del F. Atlántico	1,179	167.4	0.0
San Pedro	1.200	165.7	17
Tres Ríos	1,351	157.7	10.1
Cartago	1,444	146.5	20.8
Paraíso	1,334	139.8	27.6
Turrialba	639	103.1	64.2
Siguirres	62	61.6	105.7
Bataán	15	42.1	
Matina	11	36.8	125.3
Zent	11		130.5
Moîn		30.9	136.4
Limón	22	5.4	162.0
utree : Anuario Retadictico do Cont Di	4	0.0	167.4

Table I-16 (2) Distances along the Railway between San José and Limón

Source : Anuario Estadístico de Cosat Rica, 1982, DGEC/MEIC

5. 3. 2 Road Transportation

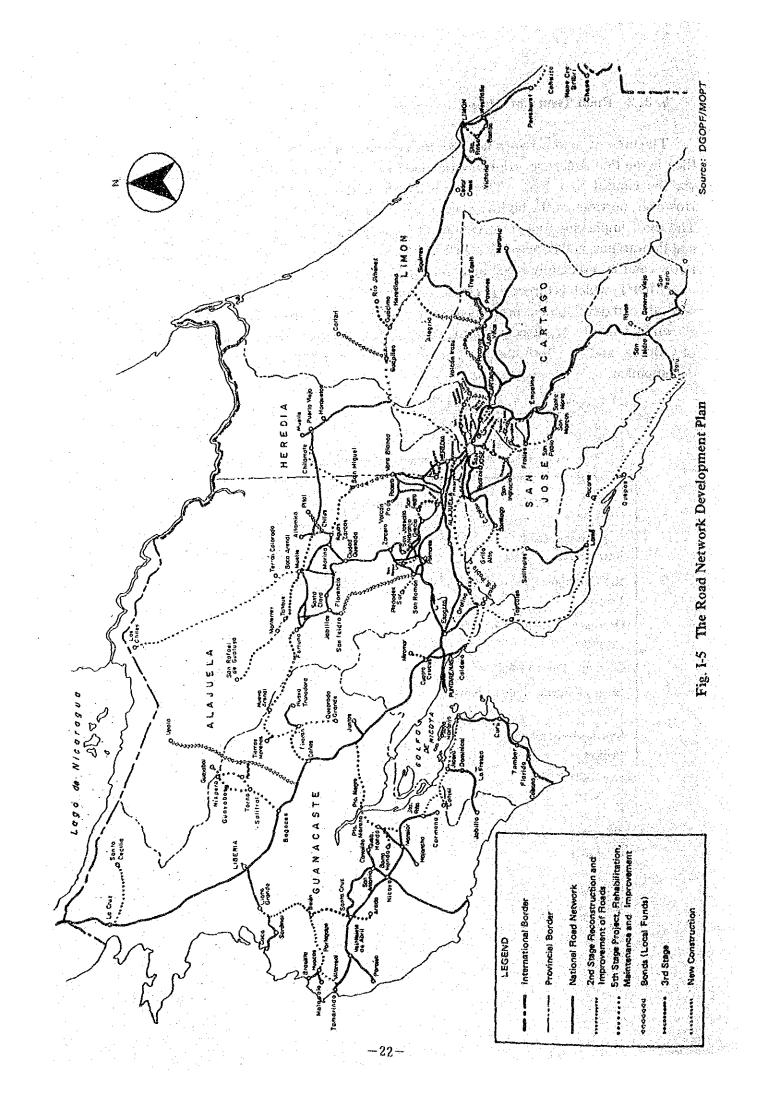
The present road network in Costa Rica is shown in Fig. I-4. The central road in Costa Rica is the Pan American Highway running through the nation from the north to the south via the capital San José. The entire length of the Pan American Highway is paved. However, portions of the highway between Cartago and Empalme sometimes become foggy. The most important routes for commodity transportation are the roads between San José and Puntarenas, and between San José and Limón. The former is shorter than the latter. The latter road is especially steep and winding in the mountainous areas.

MOPT, which is directly in charge of road development and management, is conducting several road development projects as shown in Fig. I-5. Details of some of the projects are shown in Table I-17. Especially, the two projects which will connect San José and the Port of Caldera, and San José and the Port of Limón in the future will greatly affect the port development.

Project	Distance (km)	Planned Constr	ruction Period
Fioject	Distance (kin)	Beginning	End
North Zone Road Infrastruture Project	9.1	Jan. 1986	June 1987
Rio Chirripo—Puerto Viejo Project	30.1	Mar. 1986	Fed. 1988
Orotina—Coyolar—Tárcoles Project	20.0	Apr. 1983	Mar. 1986
Coyolar-Puerto Caldera	20.1	June 1983	Apr. 1986
Baru-Piñuela-Palmar Norte Project	60.3	Feb. 1983	Aug. 1987
San José—Siquirres Project	94.4	Feb. 1983	Mar. 1986

Table I-17 Road Development Projects in the Near Future

Source : DGOPF/MOPT



6. Development Plans

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6.1 The National Devlopment Plan

The National Devlopment Plan (PLAN NACIONAL DE DESARROLLO, 1982-1986) was authorized by MIDEPLAN in December 1982. The project period is from 1982 through 1986. The socioeconomic indicators are shown in Table I-18. The plan aims at economic development by increasing the productivity of the primary sector. It states that to secure this objective, it is indispensable to further develop the transportation system, especially those transportation facilities to increase foreign trade such as port facilities. Concerning port development, it specifically aims at the development of port facilities to increase foreign trade exports, the completion of the facilities and equipment for grain import and improvement of the management and operations at the Port of Caldera.

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	1982	1986	Annual Growth Rate (%)	
Population (Unit: '000 persons)	2,404.3	2,666.2	2.6	
GDP at 1980 constant prices (Unit : million colones)	37,281.2	41,939.0	3.0	

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6.2 The National Transportation Plan

The National Transportation Plan (PLAN NACIONAL DE TRANSPORTE) was formulated by DGP/MOPT in November, 1981. The target year of the plan is 2000. The plan projects the foreign trade cargo volume in the target year as 4,888 thousand tons for imports and 2,834 thousand tons for exports.

This plan highlights the improvement of the facilities to handle break bulk cargoes including grain and containerized cargoes at the Port of Caldera by 1991. This plan states that if these improvements are completed, the Port of Caldera will be able to accommodate all of the projected cargoes through 1995 without the construction of specialized terminals which would handle only grain or containers on an exclusive basis.

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CHAPTER II PORT ACTIVITIES IN COSTA RICA

1. Historical Outline of Port Development

It is reported that the Port of Caldera and the Port of Matina were established in 1840 as official ports on the Pacific coast and the Atlantic coast, respectively, to develop foreign trade in Costa Rica. However, there were actually no port facilities at that time.

The port function on the Atlantic coast was transferred from Matina to Limón in 1867, and the first pier was constructed at the Port of Limón for banana exportation. Meanwhile, a pier for coffee exportation was constructed at Puntarenas around 1910, and the railways from the Central Valley to Puntarenas and Limón were constructed. Customs offices were also established at both ports.

At first, there was only one small pier at each of the ports for large and small vessels. Two piers, Muelle Metalico and Muelle Nacional, were then constructed at the Port of Limón, the first in 1901 and the other a few years later. Foreign trade with other Central American nations through Puntarenas subsequently increased greatly. The Government constructed Muelle de Puntarenas at the Port of Puntarenas in 1929.

Thereafter, banana plantations developed rapidly in the southern region. The piers of Golfito and Quepos were constructed by private banana companies in 1940. RECOPE constructed a mooring buoy and oil pipeline at Moin in 1960. Its function was later moved to a newly constructed marginal wharf at the same port. Two other marginal wharfs were also constructed there for banana exportation.

On the Atlantic coast, the Costa Rican Government improved the port of Limon with the construction of a concrete pier, Muelle 70. On the Pacific coast the Port of Punta Morales was constructed for sugar exportation in 1973.

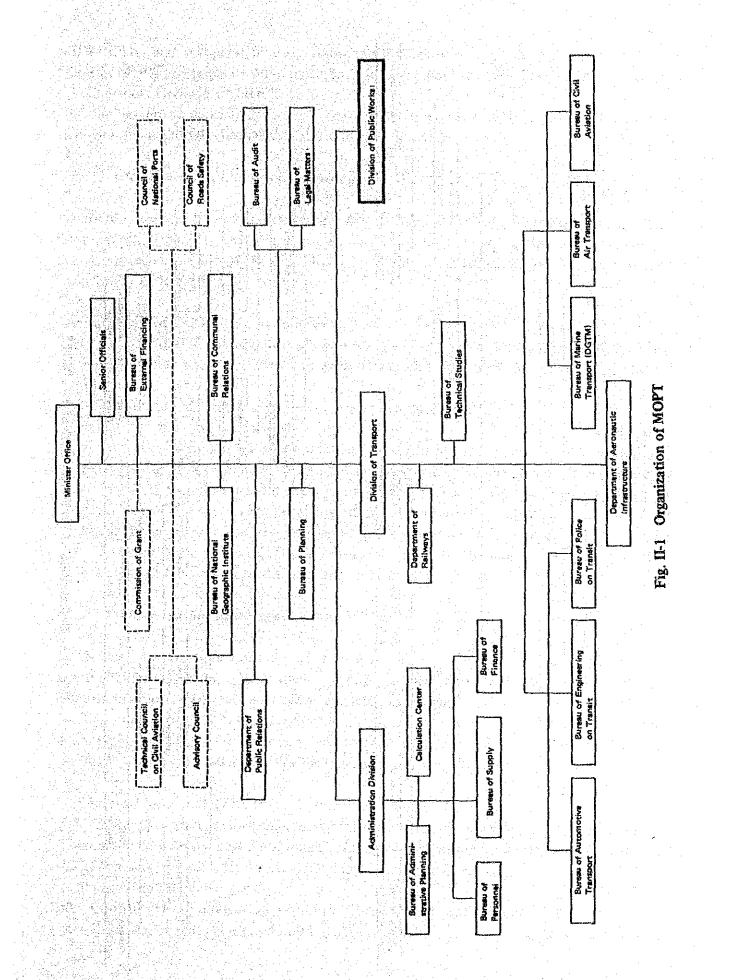
Containerized sea transportation appeared in Costa Rica in the 1970's. New container terminals at the Ports of Caldera and Limón (on the Pacific coast and the Atlantic coast) were constructed in 1981 along with the development of containerization on Pacific and Atlantic shipping routes.

2. Administration and Organization

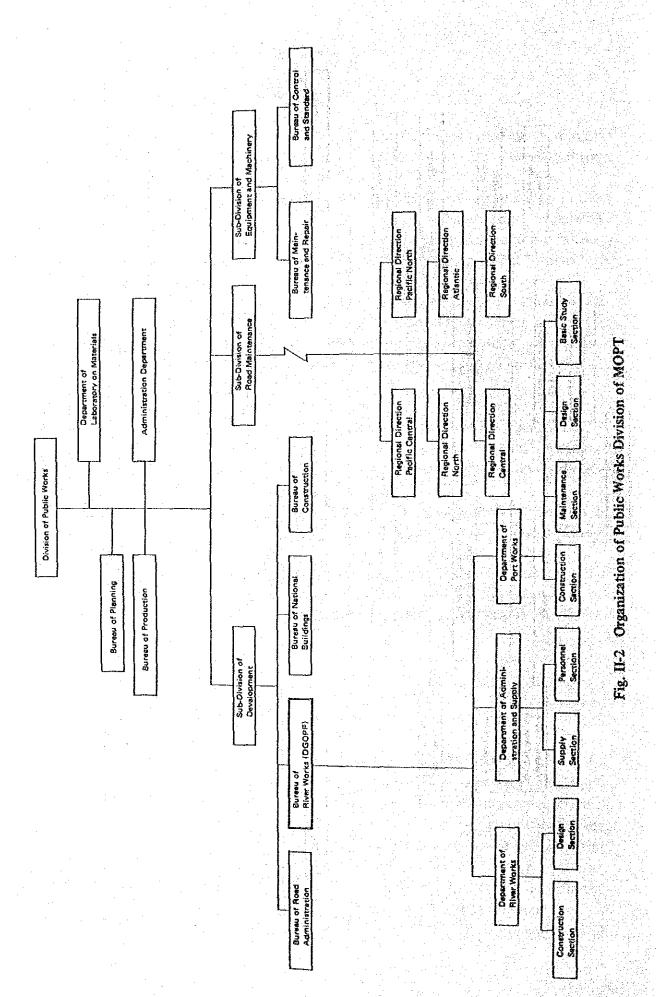
2.1 Development and Management of the Ports

The development of Costa Rican ports is implemented by MOPT as shown in Fig. II-1 using funds appropriated in the national budget. Especially, DGOPF under the Public Works Division of MOPT as shown in Fig. II-2 is responsible for the planning and construction of port facilities, while such port management bodies as INCOP on the Pacific coast and JAPDEVA on the Atlantic coast are responsible for the management of the port facilities. Requests for port development are proposed by INCOP, JAPDEVA, MOPT or other related governmental authorities. The requests are submitted to MIDEPLAN and through the deliberations of the Secretaria Sectorial del Sector Transporte the policy is decided. In the process of this debate, feasibility studies and financial analyses are implemented by

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MIDEPLAN, and technical investigations and studies on port scale are carried out by DGOPF, MOPT. Studies on administration and operation are carried out by DGTM under the Transport Division of MOPT.

The Secretaria consists of five members : The Minister of MOPT, and one representative each from INCOP, JAPDEVA, RECOPE and INCOFE.

2. 2 Administration and Organization of DGOPF

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MOPT is comprised of three divisions: Administration Division, Transport Division and Public Works Division. DGOPF, under the Public works division, has three departments : the Department of Port Works, the Department of Administration and Supply, and the Department of River Works.

The functions of DGOPF are as follows :

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- (1) To plan, design, coordinate and supervise the construction, improvement and maintenance of port and river works in accordance with the policy of the Sub-Division of Planning
- (2) To decide the policies, standards and processes for the design, construction and maintenance of the port and river works.
- (3) To supervise construction and maintenance works to ensure that the works which are executed by contractors are carried out in accordance with the terms of the contracts.
 (4) To render technical assistance to the regional offices under the Sub-Division of Works and to supervise special technical operations and inform the Sub-Division of Planning about the progress of programmes and the type of technical procedures used.
- (5) To prepare an annual budget and also to prepare the sections of the budgets of the regional offices related to the port and river works.

2.3 Administration and Organization of INCOP

INCOP, the port management body for the ports on the Pacific side, was established by Law No. 1721 of Dec. 28, 1953, which was later amended by Law No.4964 of March, 1972. The organizational structure of INCOP is shown in Fig. II-3.

The Executive Board consisting of the Executive President and six directors appointed by the council of the Government and the Executive Secretary are in charge of INCOP. The Executive President is appointed by the President of Costa Rica.

The functions of INCOP are as follows :

(1) Planning of port facilities necessary for economic development on the Pacific side in compliance with the port development plans and policies determined by the government.

(2) Necessary construction works for supplying services at the ports, getting MOPT's approval in advance.

(3) Control of ship navigation within the ports located on the Pacific side.

(4) Purchase of real estate and buildings necessary for development of actual services in

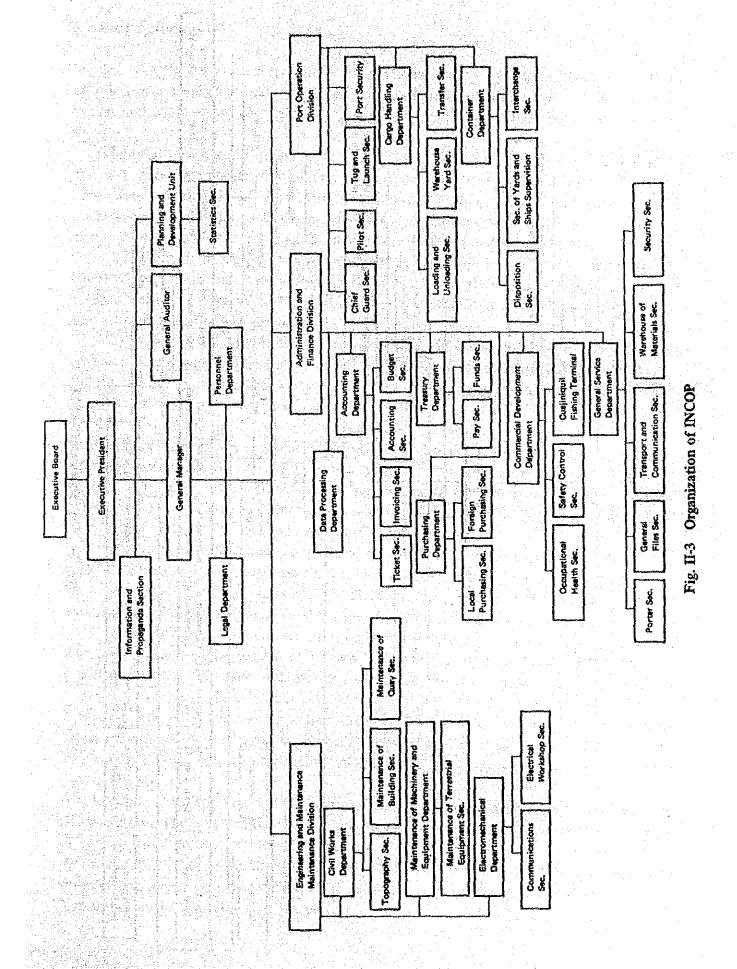
compliance with the laws and rules concerned.

- (5) Coordination between port services and related transportation development.
- (6) Determination of port charges, getting approval from the government in advance.

2. 4 Administration and Organization of JAPDEVA

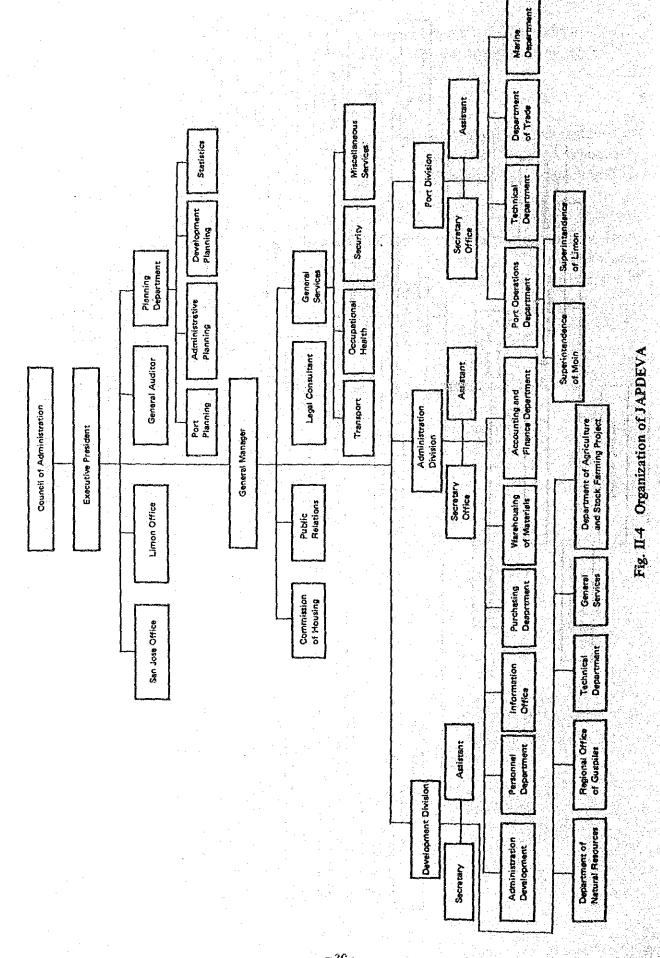
JAPDEVA, the port management body for the ports on the Atlantic side, was established by Law No. 3091 of Feb. 18, 1963. The organizational structure of JAPDEVA is shown in Fig. II-4. The Council of Administration consists of the Executive President, the Vice President and five directors appointed by a Government council.

As a port management body, JAPDEVA has the same functions as INCOP. However, JAPDEVA is also responsible for development projects in the fields of agriculture, stock farming and forestry. The Forestry Section is under the Department of Natural Resources, and the Department of Agriculture and Stock Farming is in charge of the management of agriculture and stock farming projects.



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