



REPUBLIC OF HONDURAS

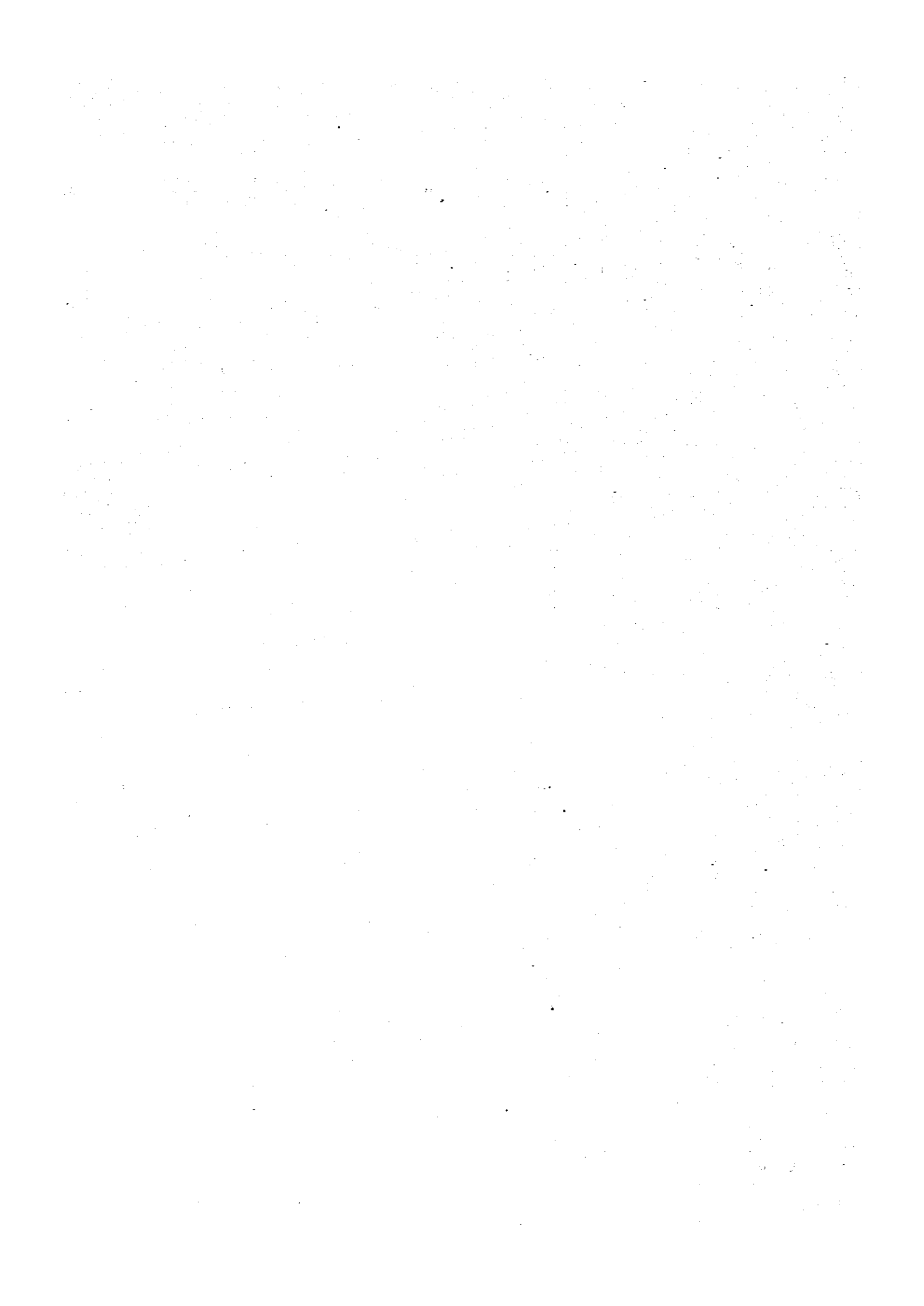
NEW TEGUCIGALPA AIRPORT DEVELOPMENT

FEASIBILITY STUDY REPORT

APPENDIX

AUGUST 1979

JAPAN INTERNATIONAL COOPERATION AGENCY

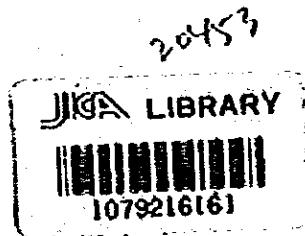


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NEW TEGUCIGALPA AIRPORT DEVELOPMENT

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APPENDIX



AUGUST 1979

JAPAN INTERNATIONAL COOPERATION AGENCY

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YANZHENYIYUJI TUCOUIA ALI/SHIYUJI YI/VA

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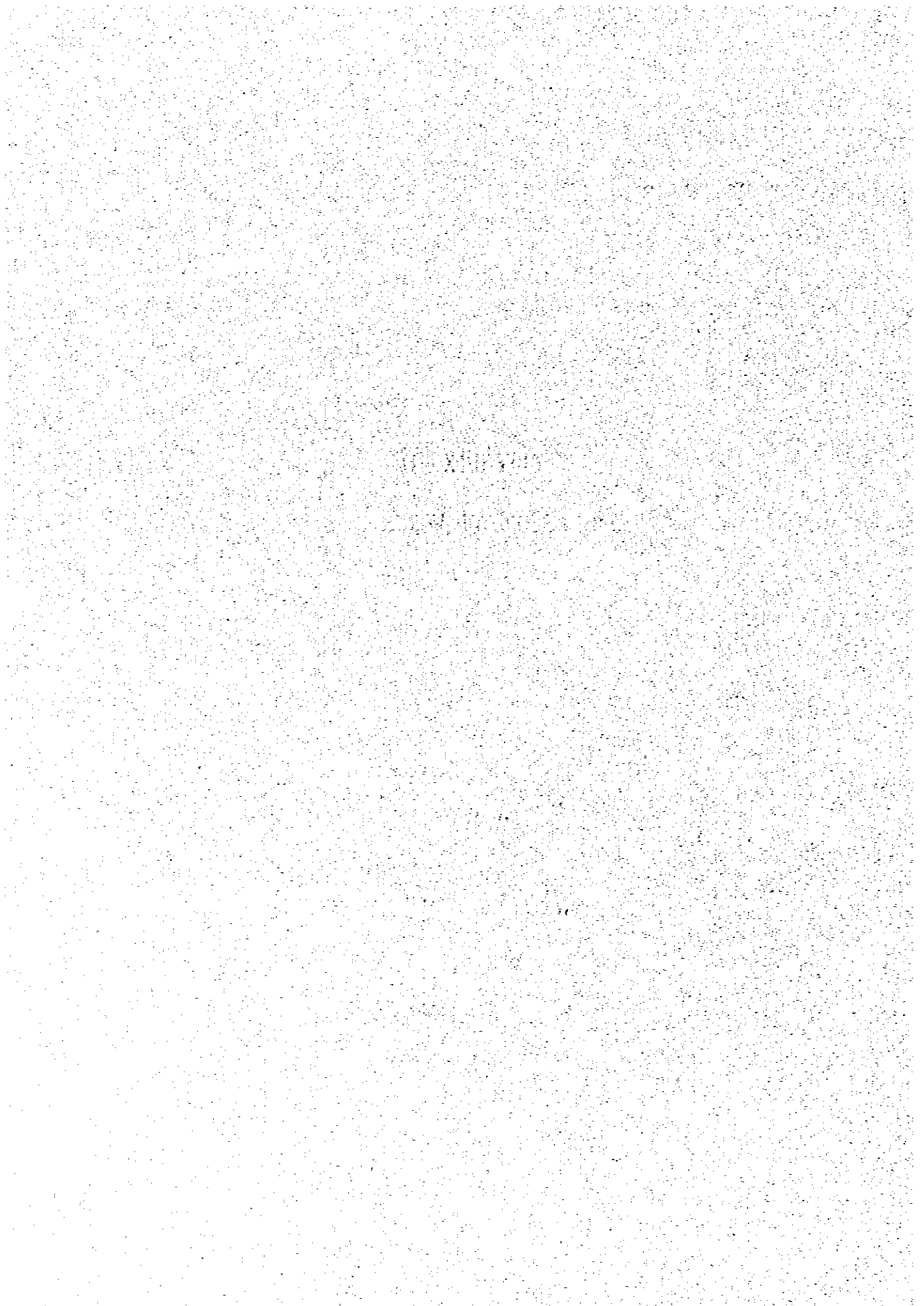
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APPENDIX 1A

SCOPE OF WORK



SCOPE OF WORK

THE FEASIBILITY STUDY

FOR

THE NEW INTERNATIONAL AIRPORT CONSTRUCTION PROJECT

IN

TEGUCIGALPA, HONDURAS

I. INTRODUCTION

In response to the request of the Government of the Republic of Honduras, the Government of Japan has decided to conduct a feasibility study for the New International Airport in Tegucigalpa in accordance with laws and regulations in force in Japan, and the Japan International Cooperation Agency (JICA), the official agency responsible for the implementation of technical cooperation programs of the Government of Japan, will carry out the study.

The present document sets forth the scope of work in regard to the above mentioned study which is to be carried out in close cooperation with the Government of the Republic of Honduras and authorities concerned.

II. OBJECTIVE

The objective is to study technical and economic feasibility of the New International Airport construction project in Tegucigalpa so as to contribute to optimal planning.

III. OUTLINE OF THE STUDY

This feasibility study will be divided into two stages as shown below.

First Stage: New airport site selection

Second stage: New airport basic planning

The second stage study will be started after the New airport site is selected by the Government of Honduras.

First stage study consists of the following:

- 1) Narrow down of choice of airport potential sites
- 2) Aviation demand forecasts
- 3) Facility requirements & planning criteria
- 4) Tentative airport layout planning
- 5) Aeronautical & engineering analysis
- 6) Economic analysis
- 7) Evaluation & conclusion as to sites

Second stage study consists of the following:

- 1) Airport layout plan
- 2) Air Navigation planning
- 3) Schedule & cost estimates
- 4) Financial analysis

IV. REPORTS

JICA will prepare and submit the following reports in course of the study. All documents are written in English and with Metric System.

- 1) Inception Report
- 2) Progress Report
- 3) Interim Report
- 4) Draft Final Report
- 5) Final Report

V. UNDERTAKING OF THE GOVERNMENT OF THE REPUBLIC OF HONDURAS

- 1) to provide the study team with data and information necessary for the study, including soil boring information and topographical maps as required scale.
- 2) to exempt the taxes and duties on the materials and personal effects which the study team will bring into the Republic of Honduras.
- 3) to assign the counterpart officials for the study team.
- 4) to provide suitable office spaces for the team.
- 5) to collaborate in collecting the necessary data and reference material, and also in ensuring that such documents are smoothly carried out of the country.
- 6) to make necessary arrangements for visiting the authorities and facilities concerned.
- 7) to provide the necessary means or equipments for the study team, for their business such as vehicles, airplane (use for evaluation flight), etc.

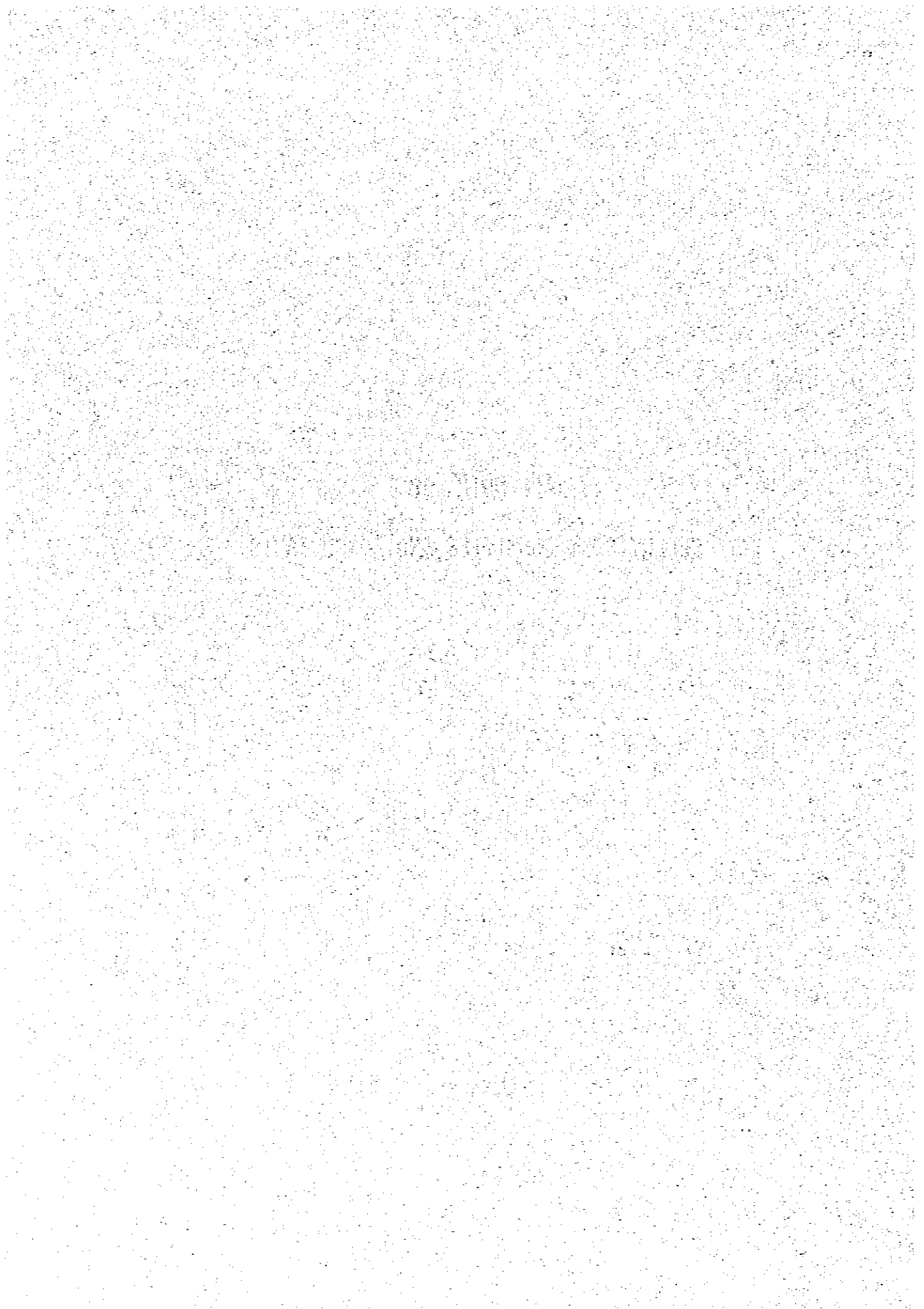
VI. TIME SCHEDULE

STAGES	MONTHS											
	1	2	3	4	5	6	7	8	9	10	11	12
Submission of; FIRST STAGE												
Inception Report			○									
Progress Report				○								
Interim Report							○					
SECOND STAGE												
Draft Final Report											○	
Final Report												○

- Notes:
- indicates the submission of Report.
 - indicates Home work in Japan.
 - ===== indicates Field work in Honduras.

APPENDIX 1B

SUPERVISORY COMMITTEE AND CONSULTANTS



SUPERVISORY COMMITTEE AND CONSULTANTS

SUPERVISORY COMMITTEE

Chairman:

Masao HIRAI, Director of Planning Division,
Former Director of Construction Division,
Aerodrome Department, Civil Aviation Bureau,
Ministry of Transport

Members:

Akira OTAKE, Dep. Director of International Affairs Div.,
Minister's Secretariat, Ministry of Transport

Takashi SAKATA, Dep. Director of Regional Planning Div.,
Minister's Secretariat, Ministry of Transport

Yukihiko KOMADA, Director of Aerodrome Department, Tokyo Regional
Civil Aviation Bureau,
Former Dep. Director of Planning Div., Aerodrome
Department, Civil Aviation Bureau,
Ministry of Transport

Tadamitsu ITO, Dep. Director of Flight Standards Div., Engineering
Department, Civil Aviation Bureau,
Ministry of Transport

Sohachiro SHIMADA, Dep. Director of Survey Div., New Osaka International
Airport Planning Bureau,
Former Dep. Director of Construction Div., Aerodrome
Dept., Civil Aviation Bureau, Ministry of Transport

Yoichi ABE Dep. Director of Construction Div., Aerodrome Dept.,
Civil Aviation Bureau, Ministry of Transport

CONSULTANTS (Japan Airport Consultants, Inc.)

PROJECT MANAGER: Akira YOSHIOKA

ECONOMISTS: Hiroyoshi KAKIZAKI,
Haruo YAMAOKA,
Masaki OTA,
Yuichi INDO

AIRCRAFT OPERATION: Yasuhiko HONGYO,
Akira NAKAOKA

AIRPORT PLANNING: Minoru MAEDA,
Kunio SAITO

ARCHITECTS: Yoshiaki NIINA,
Hideaki IIDA

CIVIL ENGINEERS: Kunio KISHIDA,
Kozo FURUKAWA,
Seiichi YAMAKAWA,
Noboru YOSHIDA,
Hisashi TANAKA

GEOLOGIST: Masahiro MURAKAMI

NAVAIDS SPECIALISTS: Fujio SATO,
Kazuo IMAMURA

AFL SPECIALISTS: Shunichi SAKAI,
Hiroshi MITA

UTILITY ENGINEERS: Shoichi FUJII,
Kunihiro KANAYA

PROJECT ADVISORS: Hiroshi HIRAIDE,
Hiroji FUKUOKA

APPENDIX 2A
ECONOMIC AND TRANSPORT DATA

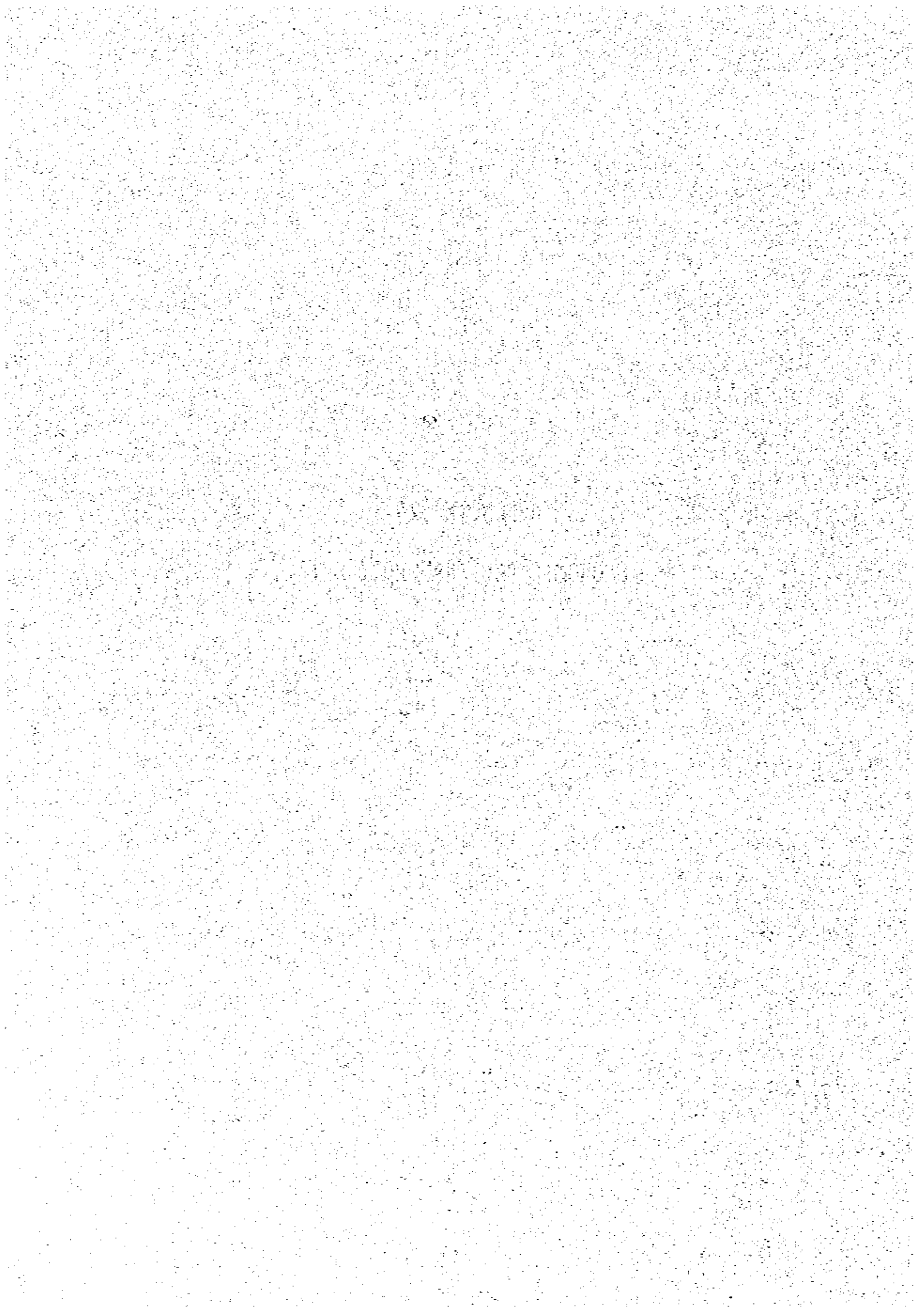


Table 2A-1 PAST DEVELOPMENT OF GROSS DOMESTIC PRODUCT,
POPULATION AND PER CAPITA GDP IN THE REPUBLIC
OF HONDURAS

Year	Gross Domestic Product ^{*1} (Milliones of Lempiras in 1966 Prices)	Population ^{*2} (thousand)	Par capita GDP (Lempiras in 1966 Prices)
1960	797	1,943	410
1961	819	2,020	405
1962	861	2,096	411
1963	889	2,169	410
1964	942	2,238	421
1965	1,039	2,304	451
1966	1,100	2,384	461
1967	1,151	2,466	467
1968	1,235	2,552	484
1969	1,239	2,638	470
1970	1,278	2,639	484
1971	1,351	2,717	497
1972	1,406	2,801	502
1973	1,469	2,892	508
1974	1,478	2,990	494
1975	1,486	3,093	480
1976	1,584	3,203	495
1977	1,709	3,318	515

* 1 Source: BANCO CENTRAL DE HONDURAS

* 2 Source: DIRECCION GENERAL DE ESTADISTICA Y CENSOS

POPULATION OF HONDURAS BY DEPARTMENT

Table 2A-2

Department	1961 Census			1974 Census							
	Total	%	Urban*	Rural	%	Urban*	Rural	%			
TOTAL	1,884,765	100.0	437,818	1,446,947	76.8	2,656,948	100.0	909,848	34.2	1,747,100	65.8
Francisco Morazán	284,428	15.1	140,375	144,053	50.6	453,597	17.1	297,844	65.7	155,753	34.3
Atlántida	92,914	4.9	39,645	53,269	57.3	148,285	5.6	63,371	42.7	84,914	57.3
Colón	41,904	2.2	4,499	37,405	89.3	77,750	2.9	15,142	19.5	62,608	80.5
Comayagua	96,442	5.1	14,466	81,976	85.0	136,619	5.1	42,958	31.4	93,661	68.6
Copán	126,183	6.7	12,241	113,942	90.3	151,859	5.7	39,507	26.0	112,352	74.0
Cortés	200,099	10.6	106,992	93,107	46.5	369,616	13.9	207,138	56.0	162,478	44.0
Choluteca	149,175	7.9	17,933	131,242	88.0	193,336	7.3	37,426	19.4	155,910	80.6
El Paraíso	106,823	5.7	13,770	93,053	87.1	140,793	5.3	26,052	18.5	114,741	81.5
Gracias a Dios	10,905	0.6	0	10,905	100.0	20,738	0.8	0	0.0	20,738	100.0
Intibucá	73,138	3.9	6,027	67,111	91.8	81,815	3.1	8,309	10.2	73,506	89.8
Islas de la Bahía	8,961	0.5	2,844	6,117	68.3	13,194	0.5	6,185	46.9	7,009	53.1
La Paz	60,600	3.2	6,533	54,067	89.2	66,046	2.5	11,190	16.9	54,856	83.1
Lempira	111,546	5.9	1,854	109,692	98.3	127,782	4.8	6,255	4.9	121,527	95.1
Ocoatoque	52,540	2.8	5,702	46,838	89.1	51,038	1.9	7,749	15.2	43,289	84.8
Olancho	110,744	5.9	14,048	96,696	87.3	151,436	5.7	29,387	19.4	122,049	80.6
Santa Bárbara	146,909	7.8	17,101	129,808	88.4	186,106	7.0	35,349	19.0	150,757	81.0
Valle	80,907	4.3	8,119	72,788	90.0	91,901	3.5	21,069	22.9	70,832	77.1
Yoro	130,547	6.9	25,669	104,878	80.3	195,037	7.3	54,917	28.2	140,120	71.8

* Refers to localities with 1,000 or more inhabitants.

Source: POBLACION Y VIVIENDA POR DEPARTAMENTO Y MUNICIPIO, 1976

Table 2A-3 POPULATION OF PRINCIPAL CITIES IN HONDURAS

(In Census year)

City	1961	1974	Average Annual Growth Rate (%)
Tegucigalpa	134,075	273,894	5.6
San Pedro Sula	58,632	150,991	7.5
La Ceiba	24,863	38,788	3.5
Choluteca	11,483	26,152	6.5
Puerto Cortés	17,048	25,817	3.2
Tela	13,619	19,055	2.6
Comayagua	8,473	15,941	5.0
Siguatepeque	5,993	12,456	5.8
Santa Rosa de Copán	7,946	12,413	3.5
Danlí	6,325	10,825	4.2

Source: DIRECCION GENERAL DE ESTADISTICA Y CENSOS

Table 2A-4 GROSS DOMESTIC PRODUCT OF HONDURAS BY INDUSTRIAL ORIGIN

Item	(In millions of current lempiras)				
	1973	1974	1975	1976 ^P	1977 ^P
Agriculture, Forestry, Fishing and Hunting	563	578	562	687	852
Mining	44	64	53	50	58
Manufacturing	244	280	314	375	457
Construction	73	96	108	118	142
Electricity, Gas and Water	27	27	36	39	46
Transport and Telecommunications	114	124	138	159	194
Trade	197	216	242	280	341
Banking, Insurance & Real Estate	53	64	68	74	90
Ownership of Dwellings	118	127	137	148	161
Public Administration and Defense	58	62	68	79	95
Services	153	157	166	176	212
GDP at Factor Cost	1,644	1,795	1,892	2,185	2,648
Net Indirect Taxes	169	200	220	253	292
GDP at Market Prices	1,813	1,995	2,112	2,438	2,940
Annual Growth Rate (%)	-	10.0	5.9	15.4	20.6

(As percentage of GDP at factor cost)

Agriculture, Forestry, Fishing and Hunting	34.2	32.2	29.7	31.4	32.2
Mining	2.7	3.6	2.8	2.3	2.2
Manufacturing	14.8	15.6	16.6	17.2	17.3
Construction	4.4	5.3	5.7	5.4	5.4
Electricity, Gas and Water	1.6	1.5	1.9	1.8	1.7
Transport and Telecommunications	6.9	6.9	7.3	7.3	7.3
Trade	12.0	12.0	12.8	12.8	12.9
Banking, Insurance and Real Estate	3.2	3.6	3.6	3.4	3.4
Ownership of Dwellings	7.2	7.1	7.2	6.8	6.1
Public Administration and Defense	3.5	3.5	3.6	3.7	3.4
Services	9.5	8.7	8.8	7.9	8.1
GDP at Factor Cost	100.0	100.0	100.0	100.0	100.0

P: Preliminary Estimate

Source: BANCO CENTRAL DE HONDURAS

Table 2A-5 GROSS DOMESTIC PRODUCT OF HONDURAS BY INDUSTRIAL ORIGIN

(In millions of 1966 lempiras)

Item	1973	1974	1975	1976 ^P	1977 ^P
Agriculture, Forestry, Fishing and Hunting	468	427	401	440	476
Mining	34	45	33	28	30
Manufacturing	192	190	195	218	243
Construction	58	72	76	80	83
Electricity, Gas and Water	15	16	17	18	20
Transport and Telecommunications	83	84	84	90	97
Trade	166	174	176	188	200
Banking, Insurance and Real Estate	34	38	39	43	47
Ownership of Dwellings	96	100	105	111	116
Public Administration and Defense	43	42	45	50	55
Services	143	142	158	160	177
GDP at Factor Cost	1,332	1,330	1,329	1,426	1,544
Net Indirect Taxes	137	148	157	158	165
GDP at Market Prices	1,469	1,478	1,486	1,584	1,709
Annual growth rate (%)	-	0.6	0.5	6.6	7.9

(As percentage of GDP at factor cost)

Agriculture, Forestry, Fishing and Hunting	35.1	32.1	30.2	30.9	30.8
Mining	2.6	3.4	2.5	2.0	1.9
Manufacturing	14.4	14.3	14.7	15.3	15.7
Construction	4.4	5.4	5.7	5.6	5.4
Electricity, Gas and Water	1.1	1.2	1.3	1.2	1.3
Transport and Telecommunications	6.2	6.3	6.3	6.3	6.3
Trade	12.5	13.1	13.2	13.2	13.0
Banking, Insurance and Real Estate	2.6	2.9	2.9	3.0	3.0
Ownership of Dwellings	7.2	7.5	7.9	7.8	7.5
Public Administration and Defense	3.2	3.1	3.4	3.5	3.6
Services	10.7	10.7	11.9	11.2	11.5
GDP at Factor Cost	100.0	100.0	100.0	100.0	100.0

P: Preliminary Estimate

Source: BANCO CENTRAL DE HONDURAS

Table 2A-6 VALUE OF PRINCIPAL EXPORTS OF HONDURAS

(In thousands of current lempiras)

Item	1972	1973	1974	1975	1976
Bananas	181,312	187,983	159,415	122,932	213,366
Coffee	54,505	95,636	88,009	113,845	200,631
Lumber	54,218	78,176	81,481	77,602	76,053
Beef	31,921	43,566	33,415	36,472	51,168
Silver	10,399	13,886	26,209	22,063	27,090
Lead	8,182	8,269	12,914	8,000	12,719
Zinc	7,540	14,624	20,982	32,160	23,836
Shrimps & Lobsters	4,680	4,460	8,138	20,580	24,506
Cotton	1,342	2,922	6,273	9,007	8,730
Sugar	4,098	24	9,044	13,836	4,415
Soap	307	2,481	5,314	7,941	13,229
Tobacco	4,394	5,720	8,503	11,138	11,794
Wooden Products	1,944	2,811	3,844	3,029	7,245
Others	44,246	56,924	112,104	107,920	108,880
Total	409,088	517,482	575,645	586,525	783,662
Annual growth rate(%)	-	26.5	11.2	1.9	33.6

(As percentage of Exports)

Bananas	44.3	36.3	27.7	21.0	27.2
Coffee	13.3	18.5	15.3	19.4	25.6
Lumber	13.3	15.1	14.2	13.2	9.7
Beef	7.8	8.4	5.8	6.2	6.5
Silver	2.5	2.7	4.6	3.8	3.5
Lead	2.0	1.6	2.2	1.4	1.6
Zinc	1.8	2.8	3.6	5.5	3.0
Shrimps & Lobsters	1.1	0.9	1.4	3.5	3.1
Cotton	0.3	0.6	1.1	1.5	1.1
Sugar	1.0	0.0	1.6	2.4	0.6
Soap	0.1	0.5	0.9	1.4	1.7
Tobacco	1.1	1.1	1.5	1.9	1.5
Wooden Products	0.5	0.5	0.7	0.5	0.9
Others	10.9	10.9	19.4	18.3	14.0
Total	100.0	100.0	100.0	100.0	100.0

Source: BANCO CENTRAL DE HONDURAS

Table 2A-7 VALUE OF PRINCIPAL IMPORTS OF HONDURAS

(In thousand of current lempiras)

	1972	1973	1974	1975	1976
Food	34,749	44,483	62,338	90,371	74,424
Beverage and Tobacco	1,457	1,916	2,890	2,790	4,493
Raw Materials	6,588	5,374	11,235	12,460	17,129
Fuel and Lubric	38,351	52,139	126,862	136,996	96,417
Oil & Grease of Vegetables and Animals	3,634	4,301	9,331	8,880	11,199
Chemical Products	62,007	79,422	112,350	116,505	148,017
Intermediate Goods	111,639	150,879	209,180	172,805	236,097
Machinery & Material of Transport	100,789	151,475	204,637	213,510	261,725
Other Manufacturing Goods	25,060	32,629	38,183	43,250	54,172
Others	1,312	1,868	6,293	2,451	2,491
Total	385,586	524,486	783,299	800,018	906,164
Annual growth rate (%)	-	36.0	49.3	2.1	13.3

(As percentage of Imports)					
Food	9.0	8.5	8.0	11.3	8.2
Beverage and Tobacco	0.4	0.4	0.4	0.3	0.5
Raw Materials	1.7	1.0	1.4	1.6	1.9
Fuel and Lubric	9.9	9.9	16.2	17.1	10.6
Oil & Grease of Vegetables and Animals	0.9	0.8	1.2	1.1	1.2
Chemical Products	16.1	15.1	14.3	14.6	16.3
Intermediate Goods	29.0	28.8	26.7	21.6	26.1
Machinery & Material of Transport	26.1	28.9	26.1	26.7	28.9
Other Manufacturing Goods	6.5	6.2	4.9	5.4	6.0
Others	0.4	0.4	0.8	0.3	0.3
Total	100.0	100.0	100.0	100.0	100.0

Source: BANCO CENTRAL DE HONDURAS

Table 2A-8 PAST DEVELOPMENT OF LENGTH OF ROADS IN HONDURAS

Year	(1960 - 1976)			(km)
	Total	Paved Road	All-Weather Road	Road only for Dry Season
1960	3,229	110	2,184	935
1961	3,385	345	2,097	943
1962	3,406	380	2,106	920
1963	3,437	380	2,125	932
1964	3,595	382	1,805	1,408
1965	3,639	407	1,852	1,380
1966	4,048	407	1,982	1,713
1967	4,349	416	1,978	1,955
1968	4,570	472	2,120	1,978
1969	4,728	622	2,102	2,004
1970	4,940	745	2,162	2,033
1971	5,589	1,168	2,988	1,433
1972	5,746	1,228	3,028	1,490
1973	5,943	1,228	3,225	1,490
1974	6,136	1,240	3,406	1,490
1975	6,595	1,327	3,670	1,598
1976	7,249	1,408	4,121	1,720

Source: ANUARIO ESTADISTICO 1975 & SECOPY

Table 2A-9 PAST DEVELOPMENT OF NUMBER OF REGISTERED CARS IN HONDURAS

(1960 - 1976)

Year	Total	Automobile	Bus	Truck	Others
1960	10,989	5,505	1,269	3,914	301
1961	11,338	5,680	1,334	4,001	323
1962	11,606	5,850	1,407	4,025	324
1963	14,329	7,476	1,661	4,881	311
1964	16,002	8,759	1,217	5,909	117
1965	18,797	10,273	1,526	6,682	316
1966	21,609	11,786	1,784	7,871	168
1967	22,570	12,042	1,704	8,784	40
1968	24,748	11,045	1,982	11,617	104
1969	27,527	12,254	2,198	12,950	125
1970	28,706	12,630	2,296	13,492	288
1971	30,733	13,765	2,066	14,874	28
1972	34,139	16,701	2,399	15,039	-
1973	33,982	15,713	2,690	15,567	12
1974	37,661	16,077	4,323	17,194	67
1975	43,838	18,152	5,103	20,583	-
1976	47,337
Average Annual Growth Rate (%)					
1960 - 1970	10.1	8.7	6.1	13.2	-0.4
1970 - 1975	8.9	7.5	17.3	8.8	-

Source: ANUARIO ESTADISTICO 1975

(•••) : NOT AVAILABLE

Table 2A-10 PAST DEVELOPMENT OF INTERNATIONAL PASSENGERS TRAFFIC AT INTERNATIONAL AIRPORTS IN CENTRAL AMERICA

	(1960 - 1975)						Total
	Guatemala	*1 EL Salvador	*1 San Pedro Sula	*2 Tegucigalpa	Managua	*1 San Jose	
1960	111,265	82,800	13,814	49,583	45,298	89,793	392,553
1961	120,232	91,500	13,668	45,342	49,017	93,609	413,368
1962	110,777	85,000	14,206	45,130	52,977	94,840	402,930
1963	122,714	94,500	26,510	39,116	61,588	101,858	446,286
1964	134,744	90,000	19,493	43,434	68,212	101,072	456,955
1965	156,197	98,509	25,514	48,650	78,025	122,008	528,903
1966	180,372	128,215	38,516	46,744	92,841	139,568	626,256
1967	199,851	127,939	36,808	46,622	95,166	155,476	661,862
1968	208,723	144,590	49,547	65,922	101,468	166,400	736,650
1969	244,362	139,824	56,708	70,804	113,497	197,024	822,219
1970	246,250	148,930	61,775	70,654	140,566	225,168	893,343
1971	260,422	156,516	54,910	75,957	148,922	252,130	948,857
1972	292,374	162,782	52,743	80,440	161,738	278,050	1,028,127
1973	347,462	186,160	62,201	85,308	150,718	336,054	1,167,903
1974	380,952	211,052	65,945	91,777	178,496	382,564	1,310,786
1975	406,490	224,968	66,313	95,885	177,806	409,428	1,380,890
Average Annual Growth Rate (%)							
1960 - 1970	8.3	6.1	16.2	3.6	12.0	9.6	8.6
1970 - 1975	10.5	8.6	1.4	6.3	4.8	12.7	9.1

Source: *1 ESTUDIO CENTROAMERICANO DE TRANSPORTE
 *2 DIRECCION GENERAL DE AERONAUTICA CIVIL, REPUBLICA DE HONDURAS

Table 2A-11 PAST DEVELOPMENT OF DOMESTIC PASSENGERS TRAFFIC AT INTERNATIONAL AIRPORTS IN CENTRAL AMERICA

	(1965 - 1975)					(persons)
	Guatemala *1	San Pedro Sula *2	Tegucigalpa *2	Managua *1	San Jose *1	Total
1965	42,350	55,591	63,171	31,882	94,154	287,148
1966	44,900	70,561	77,935	32,733	97,887	324,016
1967	47,812	75,262	86,432	34,006	103,850	347,362
1968	42,535	87,515	101,789	19,234	122,000	373,073
1969	36,432	110,585	112,255	18,954	130,893	409,119
1970	29,464	138,591	133,126	25,991	150,651	477,823
1971	24,043	94,952	93,739	30,252	185,259	428,245
1972	34,808	56,126	64,532	22,477	196,950	374,893
1973	47,754	40,973	57,436	20,324	202,332	368,819
1974	66,670	42,769	56,486	24,309	212,507	402,741
1975	79,500	35,591	42,899	27,963	242,817	428,770
Average Annual Growth Rate (%)						
1965 - 1970	-7.0	20.0	16.1	-4.0	9.9	10.7
1970 - 1975	22.0	-23.8	-20.3	1.5	10.0	-2.1

Source: *1 ESTUDIO CENTROAMERICANO DE TRANSPORTE

*2 DIRECCION GENERAL DE AERONAUTICA CIVIL, REPUBLICA DE HONDURAS

Table 2A-12 PAST DEVELOPMENT OF INTERNATIONAL CARGO TRAFFIC AT INTERNATIONAL AIRPORTS IN CENTRAL AMERICA

(1965 - 1975)

	Guatemala *1	El Salvador *1	San Pedro Sula *2	Tegucigalpa *2	Managua *1	San Jose *1	Total
1965	7,991	4,154	1,514	1,433	5,748	3,430	24,270
1966	7,927	5,004	2,251	1,811	6,008	3,821	26,822
1967	8,975	4,605	1,798	2,439	5,881	9,081	32,779
1968	10,166	4,667	2,496	2,678	11,086	6,086	37,179
1969	13,128	6,502	4,093	3,400	7,264	6,466	40,853
1970	9,788	9,656	3,333	3,874	10,159	8,818	45,628
1971	9,995	7,020	3,609	3,059	10,508	9,569	43,760
1972	17,192	7,995	3,342	2,764	11,078	10,511	52,882
1973	13,065	7,083	3,193	2,753	14,094	11,157	51,345
1974	14,455	11,232	3,326	3,409	16,565	13,690	62,677
1975	15,407	11,098	3,523	3,182	16,552	15,300	65,062
Average Annual Growth Rate (%)							
1965 - 1970	4.1	18.4	17.0	22.0	12.1	20.8	13.5
1970 - 1975	9.5	2.8	1.1	-3.9	10.3	11.7	7.4

Source: *1 ESTUDIO CENTROAMERICANO DE TRANSPORTE

*2 DIRECCION GENERAL DE AERONAUTICA CIVIL, REPUBLICA DE HONDURAS

Table 2A-13 PAST DEVELOPMENT OF DOMESTIC CARGO TRAFFIC AT INTERNATIONAL AIRPORTS IN CENTRAL AMERICA

	(1965 - 1975)					(tons)
	Customala *1	San Pedro Sula *2	Tegucigalpa *2	Managua *1	San Jose *1	Total
1965	3,647	1,832	2,404	3,327	6,400	17,610
1966	4,477	2,897	3,107	3,547	6,430	20,458
1967	4,533	2,922	4,338	3,336	6,040	21,169
1968	4,611	2,770	4,202	3,560	6,680	21,823
1969	3,955	3,887	4,829	3,483	8,100	24,254
1970	3,840	4,288	4,304	4,708	10,880	28,020
1971	2,453	3,340	3,581	3,267	8,200	20,841
1972	1,567	1,926	2,216	2,264	4,460	12,433
1973	855	1,275	1,873	2,292	5,430	11,725
1974	830	900	1,491	2,880	4,960	11,061
1975	...	550	859
Average Annual Growth Rate (%)		-7.6	-5.2	-1.6	-2.8	-5.0
1965-74	-15.2					

Source: *1 ESTUDIO CENTROAMERICANO DE TRANSPORTE

*2 DIRECCION GENERAL DE AERONAUTICA CIVIL, REPUBLICA DE HONDURAS (.....) Not Available

Table 2A-14 PAST DEVELOPMENT OF INTERNATIONAL EMBARKING & DISEMBARKING PASSENGER TRAFFIC IN THE REPUBLIC OF HONDURAS

Air- port Year	(1960 - 1977)			(persons)
	Tegucigalpa	San Pedro Sula	La Ceiba	Total
1960	49,583	13,814	-	63,397
1961	45,342	13,668	-	59,010
1962	45,130	14,206	-	59,336
1963	39,116	26,510	30	65,656
1964	43,434	19,493	68	62,995
1965	48,650	25,514	1,235	75,399
1966	46,744	38,516	1,717	86,977
1967	46,622	36,808	1,590	85,020
1968	65,922	49,547	1,784	117,253
1969	70,804	56,708	1,848	129,360
1970	70,654	61,775	2,119	134,548
1971	75,957	54,910	2,765	133,632
1972	80,440	52,743	6,066	139,249
1973	85,308	62,201	9,062	156,571
1974	91,777	65,945	8,224	165,946
1975	95,885	66,313	7,886	170,084
1976	98,032	74,396	7,857	180,285
1977	112,473	77,580	12,897	202,950
Average Annual Growth Rate (%)				
			('65- '70)	
1960 - 1970	3.6	16.2	11.4	7.8
1970 - 1977	6.9	3.3	29.4	6.0

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-15 PAST DEVELOPMENT OF DOMESTIC EMBARKING & DISEMBARKING PASSENGER TRAFFIC IN THE REPUBLIC OF HONDURAS

Year	(1960 - 1977)				(persons)
	Airport Tegucigalpa	San Pedro Sula	La Ceiba	Others	Total
1960	41,857	36,942	23,629	29,679	132,107
1961	41,077	35,717	21,577	27,648	126,019
1962	39,155	30,706	18,845	29,701	118,407
1963	47,045	40,063	29,593	34,036	150,737
1964	54,284	45,478	31,479	40,275	171,516
1965	63,171	55,591	44,421	45,601	208,784
1966	77,935	70,561	49,668	48,223	246,387
1967	86,432	75,262	48,612	48,565	258,871
1968	101,789	87,515	55,531	44,320	289,155
1969	112,255	110,585	83,962	75,122	381,924
1970	133,126	138,591	123,452	111,976	507,145
1971	93,739	94,952	94,576	98,264	381,531
1972	64,532	56,126	74,065	93,547	288,270
1973	57,436	40,973	73,483	106,362	278,254
1974	56,486	42,769	70,921	97,467	267,643
1975	42,899	35,591	54,011	69,483	201,984
1976	44,753	38,064	75,126	90,645	248,588
1977	53,275	38,979	87,806	102,468	282,528
Average Annual Growth Rate (%)					
1960 - 1970	12.2	14.1	18.0	14.2	15.2
1970 - 1977	-12.3	-16.6	-4.8	-1.3	-8.0

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-16 PAST DEVELOPMENT OF INTERNATIONAL LOADED & UNLOADED CARGO IN THE REPUBLIC OF HONDURAS

(1960 - 1977)					(tons)
Airport					
Year	Tegucigalpa	San Pedro Sula	La Ceiba	Total	
1960	1,545	651	-	2,196	
1961	1,396	972	-	2,368	
1962	1,587	1,127	-	2,714	
1963	1,477	2,281	-	3,758	
1964	1,589	1,345	-	2,934	
1965	1,433	1,514	25	2,972	
1966	1,811	2,251	26	4,088	
1967	2,439	1,798	22	4,259	
1968	2,678	2,496	54	5,228	
1969	3,400	4,093	54	7,547	
1970	3,874	3,333	56	7,263	
1971	3,059	3,609	103	6,771	
1972	2,764	3,342	188	6,294	
1973	2,753	3,193	192	6,138	
1974	3,409	3,326	263	6,998	
1975	3,182	3,523	148	6,853	
1976	4,665	4,384	289	9,338	
1977	5,112	5,261	397	10,770	
Average Annual Growth Rate (%)					
('65-'70)					
1960 - 1970	9.6	17.7	17.5	12.7	
1970 - 1977	4.0	6.7	32.3	5.8	

Source: DIRECCIÓN GENERAL DE AERONAUTICA CIVIL

Table 2A-17 PAST DEVELOPMENT OF DOMESTIC LOADED & UNLOADED CARGO IN THE REPUBLIC OF HONDURAS

Year	(1960 - 1977)				(tons)	
	Airport	Tegucigalpa	San Pedro Sula	La Ceiba	Others	Total
1960		2,307	1,706	2,274	1,199	7,486
1961		2,267	1,756	1,925	1,226	7,174
1962		2,157	1,581	2,179	952	6,869
1963		2,288	2,137	2,382	915	7,722
1964		2,641	2,110	2,446	1,242	8,439
1965		2,404	1,832	2,478	1,225	7,939
1966		3,107	2,897	2,997	1,203	10,204
1967		4,338	2,922	2,785	840	10,885
1968		4,202	2,770	2,589	2,931	12,492
1969		4,829	3,887	3,588	9,763	22,067
1970		4,304	4,228	3,639	3,154	15,325
1971		3,581	3,340	3,762	2,835	13,518
1972		2,216	1,926	2,065	5,804	12,011
1973		1,873	1,275	1,719	3,128	7,995
1974		1,491	900	1,446	3,592	7,429
1975		859	550	870	1,411	3,690
1976		759	426	837	1,214	3,236
1977		578	338	868	1,440	3,224
Average Annual Growth Rate (%)						
1960 - 1970		6.4	9.5	4.8	10.2	7.4
1970 - 1977		-25.0	-30.3	-18.5	-10.6	-20.0

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-18 INTERNATIONAL EMBARKING, DISEMBARKING & TRANSIT PASSENGERS BY ROUTE AT TONCONTIN AIRPORT

(1970 - 1977) (persons)

Route	1970	1971	1972	1973	1974	1975	1976	1977
Toncontín - Miami								
Embarking & Disembarking	11,405	11,492	14,605	16,245	17,698	18,626	19,705	23,069
Transit	-	-	-	-	-	-	-	-
Total	11,405	11,492	14,605	16,245	17,698	18,626	19,705	23,069
Toncontín - Mexico								
Embarking & Disembarking	6,774	6,944	7,404	7,493	7,344	7,817	7,611	8,943
Transit	6,057	6,000	5,900	5,412	5,343	5,506	5,340	4,770
Total	12,831	12,944	13,304	12,905	12,687	13,323	12,951	13,713
Toncontín - Panama								
Embarking & Disembarking	2,478	4,199	5,074	5,823	7,195	8,033	9,561	10,793
Transit	690	1,254	1,732	2,005	3,281	3,310	3,546	3,922
Total	3,168	5,453	6,806	7,828	10,476	11,343	13,107	14,715
Toncontín - San Andrea								
Embarking & Disembarking	1,721	2,110	2,076	2,553	2,597	3,015	4,023	4,260
Transit	1,885	2,264	2,261	2,720	3,954	5,331	4,565	4,472
Total	3,606	4,374	4,337	5,273	6,551	8,346	8,588	8,732
Toncontín - San Jose								
Embarking & Disembarking	10,436	10,087	9,482	10,457	11,327	10,671	10,242	11,693
Transit	7,201	9,942	9,649	9,907	13,104	12,866	12,967	14,258
Total	17,637	20,029	19,131	20,364	24,431	23,537	23,209	25,951
Toncontín - Managua								
Embarking & Disembarking	9,017	10,359	10,281	7,199	8,806	9,619	9,759	10,342
Transit	3,629	3,113	2,783	1,966	5,038	6,001	6,845	8,237
Total	12,646	13,472	13,064	9,165	13,844	15,620	16,604	18,579
Toncontín - Guatemala								
Embarking & Disembarking	21,652	22,650	22,871	25,258	25,029	24,386	22,684	26,072
Transit	7,987	8,914	6,548	7,823	12,738	9,044	6,653	5,576
Total	29,639	30,664	29,419	32,081	37,767	33,430	29,337	31,648
Toncontín - Belize								
Embarking & Disembarking	1,193	1,207	1,599	1,660	1,928	2,061	1,760	1,288
Transit	2,089	1,913	1,947	1,656	1,821	2,125	1,962	1,356
Total	3,282	3,120	3,546	3,316	3,749	4,086	3,722	2,644
Toncontín - New Orleans								
Embarking & Disembarking	5,972	6,903	7,000	7,859	9,019	11,724	12,627	15,895
Transit	2,393	3,127	3,768	3,115	5,059	8,704	10,525	12,467
Total	8,365	10,030	10,768	10,974	14,072	20,428	23,152	28,362
Non-Scheduled	6	6	48	761	894	33	60	218
Total	70,654	75,957	80,440	85,308	91,777	95,885	98,032	112,473
Transit	31,931	35,627	34,588	34,604	50,332	53,087	52,403	55,108
Total	102,585	111,584	115,028	119,912	142,109	148,972	150,435	167,581

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-19 DOMESTIC EMBARKING, DISEMBARKING & TRANSIT PASSENGERS BY ROUTE AT TONCONTIN AIRPORT
(persons)

Route	1970	1971	1972	1973	1974	1975	1976	1977
Toncontín - San Pedro Sula								
Embarking & Dis-								
embarking	78,751	49,349	25,698	22,260	20,914	20,353	22,922	23,720
Transfer*	10,902	10,999	9,750	11,618	13,782	15,019	15,320	16,435
Total	89,653	60,348	35,448	33,878	34,696	35,372	37,242	40,155
" - La Ceiba								
Embarking & Dis-								
embarking	23,860	17,305	15,233	12,548	13,353	10,035	11,377	16,126
Transfer*	113	198	304	1,132	674	786	803	1,241
Total	23,973	17,503	15,537	13,680	14,027	10,821	12,180	17,367
" - Tela								
Embarking & Dis-								
embarking	2,383	1,880	761	34	145	54	4	-
Transfer*	85	400	503	578	314	216	342	603
Total	1,709	786	1,427	1,846	2,103	1,428	1,754	2,635
" - Roatan								
Embarking & Dis-								
embarking	1,009	811	911	1,185	836	792	682	824
Transfer*	292	361	947	1,083	988	861	953	1,221
Total	1,524	1,241	1,575	1,618	1,347	928	899	1,013
" - Trujillo								
Embarking & Dis-								
embarking	628	2,517	2,584	2,591	1,812	377	1,552	3,390
Transfer*	998	886	902	1,069	988	397	197	-
Total	1,000	800	570	877	725	223	-	-
" - Victoria								
Embarking & Dis-								
embarking	1,047	1,040	698	642	903	150	-	-
Transfer*	2,461	2,170	2,423	2,685	2,596	1,557	1,053	-
Total	1,276	1,354	1,134	1,087	1,053	662	453	-
" - Juticalpa								
Embarking & Dis-								
embarking	220	249	233	249	357	156	113	-
Transfer*	-	-	103	80	68	17	-	-
Total	40	44	36	39	34	36	74	20
" - La Unión								
Embarking & Dis-								
embarking	1,809	1,055	748	624	1,157	1,141	667	422
Transfer*	66	93	47	84	50	8	-	-
Total	307	383	320	347	457	376	189	53
" - Gualaco								
Embarking & Dis-								
embarking	575	643	662	946	912	706	549	679
Transfer*	1,275	1,273	1,170	1,237	1,411	1,268	1,388	1,582
Total	278	137	53	50	-	-	-	-
" - Brus Laguna								
Embarking & Dis-								
embarking	6,484	3,317	4,068	148	20	-	-	176
Transfer*	5,049	5,645	4,726	3,529	3,943	1,158	585	811
Total								
Non-Scheduled								
Embarking & Dis-								
embarking	113,126	93,739	64,532	57,436	56,486	42,899	44,753	53,275
Transfer*	11,015	11,197	10,054	12,750	14,456	15,805	16,123	17,676
Total	144,141	104,936	74,586	70,186	70,942	58,704	60,876	70,951

* Transfer Passengers to/from International Route

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-20 INTERNATIONAL LOADED & UNLOADED CARGO BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT

Origin/Destination	(1970 - 1976)							(tons)
	1970	1971	1972	1973	1974	1975	1976	
Toncontin/Miami	2,132.5	1,646.4	1,520.9	1,572.0	1,717.0	1,599.6	2,115.0	
" /Mexico	161.0	258.0	216.7	193.8	245.9	223.5	240.2	
" /Panama	428.5	358.5	340.8	190.9	510.2	570.9	881.5	
" /San. Andres	44.0	30.7	17.4	6.9	2.5	12.3	64.1	
" /San José	189.4	145.8	152.8	175.8	173.6	113.1	217.2	
" /Managua	69.9	44.3	56.2	28.9	51.4	48.5	55.9	
" /Guatem.	628.2	451.2	368.5	374.9	497.6	388.6	720.9	
" /Belize	7.6	11.7	12.9	29.4	9.4	19.6	7.2	
" /New Orleans	212.3	112.7	78.1	180.3	201.6	205.7	363.4	
Total	3,873.4	3,059.3	2,764.3	2,752.9	3,409.2	3,181.8	4,665.4	

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-21 INTERNATIONAL LOADED CARGO BY ORIGIN-DESTINATION AT TONCONTIN AIRPORT

Origin - Destination	(1970 - 1976)							(tons)
	1970	1971	1972	1973	1974	1975	1976	
Toncontin - Miami	569.7	366.7	288.6	379.3	429.4	312.0	366.0	
" - Mexico	11.1	7.1	16.5	16.1	12.6	7.7	9.1	
" - Panama	52.8	52.4	39.9	23.0	46.4	19.6	40.4	
" - San Andres	24.2	10.5	10.3	3.5	2.5	1.0	63.8	
" - San José	41.6	28.3	26.2	21.4	44.6	30.6	45.0	
" - Managua	38.9	20.3	13.7	21.5	31.1	33.5	29.5	
" - Guatemala	160.4	37.4	31.2	35.7	31.8	30.5	40.1	
" - Belize	5.0	7.6	11.1	28.2	7.1	16.6	3.0	
" - New Orleans	12.6	8.8	9.6	10.2	13.0	21.9	12.1	
Total	916.3	539.1	447.1	538.9	618.5	473.4	609.0	

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-22 INTERNATIONAL UNLOADED CARGO BY ORIGIN-DESTINATION AT TONCONTIN AIRPORT

Origin - Destination	(1970 - 1976)							
	1970	1971	1972	1973	1974	1975	1976	(tons)
Miami - Toncontin	1,562.8	1,279.7	1,232.3	1,192.7	1,287.6	1,287.6	1,749.0	
Mexico - "	149.9	250.9	200.2	177.7	233.3	215.8	231.1	
Panama - "	375.7	306.1	300.9	167.9	463.8	551.3	841.1	
San Andres - "	19.8	20.2	7.1	3.4	-	11.3	0.3	
San Jose - "	147.8	117.5	126.6	154.4	129.0	82.5	172.2	
Managua - "	31.0	24.0	42.5	7.4	20.3	15.0	26.4	
Guatemala - "	467.8	413.8	397.3	339.2	465.8	358.1	680.8	
Belize - "	2.6	4.1	1.8	1.2	2.3	3.0	4.2	
New Orleans - "	199.7	103.9	68.5	170.1	188.6	183.8	351.3	
Total	2,957.1	2,520.2	2,317.2	2,214.0	2,790.7	2,708.4	4,056.4	

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-23

DOMESTIC LOADED & UNLOADED CARGO BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT

Origin/Destination	(1970 - 1976)						(tons)
	1970	1971	1972	1973	1974	1975	
Toncontin/San Pedro Sula	2,033.4	1,362.7	776.1	523.8	294.4	146.8	174.9
/La Ceiba	1,035.4	972.4	426.7	304.0	303.1	176.5	155.2
/Tela	60.4	68.5	41.8	3.8	13.9	4.8	2.3
/Utilla	0.9	2.7	2.4	5.6	4.0	3.4	11.1
/Roatan	11.6	16.0	27.9	23.5	29.6	21.1	39.0
/Guanaja	26.6	23.0	32.9	55.2	63.2	37.5	39.2
/Tocoa	15.6	19.1	31.8	57.5	37.1	20.9	17.6
/Trujillo	54.1	70.1	86.7	82.1	72.3	37.3	26.5
/Coyoles	5.0	37.4	30.9	39.1	32.2	20.0	61.1
/Victoria	114.3	107.9	100.4	85.4	67.9	41.6	17.4
/Sulaco	39.1	24.1	11.4	24.0	10.0	3.4	-
/Yoro	44.5	38.6	31.5	35.6	33.9	8.7	-
/Juticalpa	130.8	129.0	104.9	91.0	64.1	44.8	27.9
/Catacamas	63.7	75.0	63.6	75.0	54.6	35.2	19.7
/San Esteban	72.1	78.9	49.1	39.8	46.3	19.0	10.1
/Limas	1.9	8.0	4.1	6.5	3.3	0.4	-
/La Union	6.2	5.4	3.3	1.9	1.2	1.2	2.6
/Olanchito	125.3	123.1	121.2	164.3	146.9	101.8	73.5
/Gualaco	28.2	33.7	31.2	24.3	12.4	0.3	-
/Ahwas	71.0	59.3	52.7	76.9	51.0	42.3	19.5
/Bruz Laguna	45.9	35.1	33.4	37.2	43.6	17.4	7.3
/PTO. Lempira	84.4	107.5	66.7	87.5	94.4	66.6	45.8
/Isletas	1.6	1.4	0.3	6.0	7.0	8.6	8.5
/Occidente	233.2	181.1	85.2	22.9	4.8	-	-
Total	4,305.2	3,580.0	2,216.2	1,872.9	1,491.2	859.6	759.2

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-24 DOMESTIC LOADED CARGO BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT

		(1970 - 1976)							(tons)
Origin - Destination		1970	1971	1972	1973	1974	1975	1976	
Toncontin	- San Pedro Sula	1,020.3	698.1	439.7	238.7	162.2	76.3	112.3	
"	- La Ceiba	641.6	532.4	267.1	182.3	151.3	101.5	125.1	
"	- Tela	33.5	45.4	27.8	3.1	9.4	2.4	1.9	
"	- Utila	0.0	1.8	1.0	2.0	1.6	0.8	6.2	
"	- Roatan	7.8	11.2	15.3	13.2	15.6	13.1	26.3	
"	- Guanaja	13.8	10.1	16.2	20.2	29.0	19.0	28.3	
"	- Rocon	8.8	14.3	25.9	44.6	19.3	8.8	7.1	
"	- Trujillo	36.0	51.2	67.7	61.1	48.1	22.3	17.1	
"	- Coyoles	2.1	12.7	16.0	21.1	12.7	7.4	23.6	
"	- Victoria	85.6	67.7	64.8	61.4	41.2	28.9	13.8	
"	- Sulaco	34.1	16.6	8.9	19.8	8.8	3.2	-	
"	- Yoro	32.0	29.3	23.2	25.3	26.6	6.8	-	
"	- Jucicalpa	62.5	64.1	68.7	65.1	52.4	39.3	25.4	
"	- Catacamas	34.3	23.2	22.5	43.6	26.9	17.1	14.2	
"	- San Esteban	34.3	30.8	23.8	27.4	15.1	9.7	8.7	
"	- Limas	0.8	3.3	3.2	4.4	2.2	0.2	-	
"	- La Unión	6.1	3.8	2.5	1.6	1.0	1.1	2.2	
"	- Olanchito	98.3	92.8	91.9	103.0	67.0	53.7	35.1	
"	- Gualaco	18.8	16.2	15.5	13.4	11.2	0.2	-	
"	- Ahuas	52.0	47.8	40.9	61.1	43.4	24.9	13.1	
"	- Brus Laguna	36.9	27.0	27.8	27.9	29.0	13.1	6.2	
"	- PTO. Lempira	61.4	72.2	59.9	53.0	68.1	42.1	40.3	
"	- Isletas	-	-	-	4.1	7.0	8.6	8.5	
"	- Occidente	173.6	135.8	74.1	20.2	4.5	-	-	
Total		2,494.6	2,007.8	1,404.4	1,117.6	853.6	500.5	515.4	

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-25 DOMESTIC UNLOADED CARGO BY ORIGIN-DESTINATION AT TONCONTIN AIRPORT

		(1970 - 1976)							(tons)
Origin - Destination	1970	1971	1972	1973	1974	1975	1976		
San Pedro Sula - Toncontin	1,013.1	664.6	336.4	295.1	132.2	70.5	62.6		
La Ceiba	393.8	440.0	159.6	121.7	151.8	75.0	30.1		
Tela	26.9	23.1	14.0	0.7	4.5	2.4	0.4		
Utilla	0.9	0.9	1.4	3.6	2.4	2.6	4.9		
Roatan	3.8	4.8	12.6	10.3	14.0	8.0	12.7		
Guanaja	12.8	12.9	16.7	35.0	34.2	18.5	10.9		
Tocoa	6.8	4.8	5.9	12.9	17.8	12.1	10.5		
Trujillo	18.1	18.9	19.0	21.0	24.2	15.0	9.4		
Coyoles	2.9	24.7	14.9	18.0	19.5	12.6	37.5		
Victoria	28.7	40.2	35.6	24.0	26.7	12.7	3.6		
Sulaco	5.0	7.5	2.5	4.2	1.2	0.2	-		
Yoro	12.5	9.3	8.3	10.3	7.3	1.9	-		
Juticalpa	68.3	64.9	36.2	25.9	11.7	5.5	2.5		
Catucamas	29.4	51.8	41.1	31.4	27.7	18.1	5.5		
San Esteban	37.8	48.1	25.3	12.4	31.2	9.3	1.4		
Limas	1.1	4.7	0.9	2.1	1.1	0.2	-		
La Union	0.1	1.6	0.8	0.3	0.2	0.1	0.4		
Olanchito	27.0	30.3	29.3	61.3	79.9	48.1	38.4		
Gualaco	9.4	17.5	15.7	10.9	1.2	0.1	-		
Ahuas	19.0	11.5	11.8	15.8	7.6	17.4	6.4		
Brus Laguna	9.0	8.1	5.6	9.3	14.6	4.3	1.1		
PTO. Lempira	23.0	35.3	6.8	34.5	26.3	24.5	5.5		
Isletas	1.6	1.4	0.3	1.9	-	-	-		
Occidente	59.6	45.3	11.1	2.7	0.3	-	-		
Total	1,810.6	1,572.2	811.8	755.3	637.6	359.1	243.8		

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-26 INTERNATIONAL TRANSIT PASSENGER TRAFFIC BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT

(1977)

(persons)

O	D	MGA	SJO	PTY	ADZ	GUA	MEX	MSY	MIA	SAP	LCE	BZE	TOTAL
MGA					108	167		2,600		1,280	160	34	4,349
SJO					728		4,331			2,350	224	32	7,665
PTY					121		87			1,642	112	52	2,014
ADZ		148			1,537		115			558	142	36	2,536
CUA		131	476	237	1,240		4			757	65		2,910
MEX										2,113		395	2,508
MSY		2,078	3,186	52	14								5,330
MIA													7,735
SAP		1,398	2,604	1,345	511	90	1,787						538
LCE		143	242	69	63	21							807
BZE		40	85	205	-	2	475						
TOTAL		3,938	6,593	1,908	1,936	2,666	2,262	7,137	8,700	703	549		36,992

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-27 PRESENT AIRLINES' OPERATIONS BY ROUTE TO/FROM TONCONTIN AIRPORT

Route	Aircraft Type	Number of weekly Operations by Route	Number of weekly Aircraft Movements at Toncontin Airport
1. SJO ⇌ MGA ⇌ TGU ⇌ SAP ⇌ BZE ⇌ MSY	B 737	10	20
2. SJO ⇌ MGA ⇌ TGU ⇌ LCE ⇌ SAP ⇌ MSY	B 737	4	8
3. TGU ⇌ MGA ⇌ SJO	L-188	6	6
4. GUA ⇌ TGU ⇌ PTY	L-188	4	8
5. GUA ⇌ TGU ⇌ ADZ ⇌ PTY	L-188	10	20
6. MIA → BZE → TGU → MEX	B 737	3	6
7. MEX → TGU → SAP → BZE → MIA	B 737	3	6
8. MIA ⇌ SAP ⇌ LCE ⇌ TGU	B 737	4	4
9. MIA ⇌ BZE ⇌ SAP ⇌ LCE ⇌ TGU	B 737	2	2
10. MIA → SAP → TGU → LCE → SAP → MIA	L-188	1	2
11. MIA ⇌ BZE ⇌ TGU	B 737	2	2
12. TGU ⇌ LCE ⇌ SAP	CV-580	8	8
13. TGU ⇌ LCE ⇌ SAP ⇌ TGU	CV-580	2	4
14. LCE ⇌ OAN ⇌ TGU	DC-3	2	2
15. TGU ⇌ AHU ⇌ BRL ⇌ PLP ⇌ TGU	DC-3	2	2
16. LCE ⇌ COY ⇌ TGU	DC-3	8	8
Total		71	108
	B 737	28	48
	L-188	21	36
	CV-588	10	12
	DC-3	12	12

Source: Flight Schedules of TAN, SAHSA, AHNSA & LANSAs as of February 1978

Table 2A-28

PRESENT AIRCRAFT MOVEMENTS BY TIME PERIOD AT TONCONTIIN AIRPORT

Time Period	Sunday		Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Total						
	Arr.	Dep.	Total Arr.	Total Dep.	Total Arr.	Total Dep.	Total Arr.	Total Dep.	Total Arr.	Total Dep.	Total Arr.	Total Dep.	Total Arr.	Total Dep.	Total Arr.	Total Dep.					
7:00 - 7:59	1	1	2	1	2	3	1	2	3	1	3	4	1	2	1	1	2	7	12	19	
8:00 - 8:59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1	
9:00 - 9:59	2	1	3	2	-	3	2	-	2	2	-	2	-	-	2	-	2	13	1	14	
10:00 - 10:59	-	1	1	2	3	4	1	3	4	2	2	4	2	1	3	1	2	3	10	14	24
11:00 - 11:59	-	-	1	-	1	1	-	-	-	-	1	1	-	2	2	-	1	1	-	6	6
12:00 - 12:59	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
13:00 - 13:59	-	-	1	1	-	1	-	1	1	-	-	-	-	-	-	-	-	-	3	3	
14:00 - 14:59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15:00 - 15:59	-	-	4	2	6	-	4	2	6	-	-	-	-	-	1	1	2	9	5	14	
16:00 - 16:59	2	4	1	1	2	4	1	1	2	2	2	4	3	2	5	2	2	4	13	12	25
17:00 - 17:59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1
Total	5	5	10	10	20	8	8	16	9	18	8	16	6	12	8	8	16	54	54	108	

Source: FLIGHT SCHEDULES OF TAN, SAHSH, AIRNSA & LANSA AS OF FEBRUARY, 1978

Table 2A-29 MONTHLY EMBARKING & DISEMBARKING INTERNATIONAL PASSENGERS AT TONCONTIN AIRPORT

(persons)

(1975 - 1977)

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1975													
Embarking	4,086	3,695	3,632	3,532	3,474	4,228	4,369	4,308	3,799	3,659	4,015	4,894	47,691
Disembarking	4,654	3,646	3,881	3,440	3,632	4,179	4,386	4,880	4,049	3,566	3,694	4,187	48,194
Total	8,740	7,341	7,513	6,972	7,106	8,407	8,755	9,188	7,848	7,225	7,709	9,081	95,885
Monthly Coefficient*	1.094	0.919	0.940	0.873	0.889	1.052	1.096	1.150	0.982	0.904	0.965	1.137	12.000
1976													
Embarking	3,845	3,903	3,288	3,729	3,621	3,877	4,834	4,904	3,767	3,764	3,819	5,662	49,013
Disembarking	4,211	3,669	3,300	3,705	3,910	4,417	4,947	4,904	4,043	3,604	4,060	4,246	49,016
Total	8,056	7,572	6,588	7,434	7,531	8,294	9,781	9,808	7,810	7,368	7,879	9,908	98,029
Monthly Coefficient*	0.986	0.927	0.806	0.910	0.922	1.015	1.197	1.201	0.956	0.902	0.964	1.213	12.000
1977													
Embarking	4,447	4,128	4,256	4,186	3,680	4,751	5,475	5,191	4,104	4,241	4,749	6,271	55,479
Disembarking	4,752	4,278	4,790	4,298	3,955	4,757	5,781	5,679	4,600	4,226	4,917	5,737	57,770
Total	9,199	8,406	9,046	8,484	7,635	9,508	11,256	10,870	8,704	8,467	9,666	12,008	113,249
Monthly Coefficient*	0.975	0.891	0.959	0.899	0.809	1.008	1.193	1.152	0.922	0.897	1.024	1.272	12.000
Averaged Monthly Coefficient	1.018	0.912	0.902	0.894	0.873	1.025	1.162	1.168	0.953	0.901	0.984	1.207	12.000

* Average Number of Monthly Passengers = 1.000

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-30 MONTHLY EMBARKING & DISEMBARKING DOMESTIC PASSENGERS AT TONCONTIN AIRPORT

	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
(1975 - 1977)													
1975													
Embarking	2,619	2,210	2,040	2,140	1,857	1,569	1,813	1,955	1,861	1,998	1,816	1,887	23,765
Disembarking	2,308	2,089	2,196	2,107	1,813	2,046	2,046	1,940	1,864	1,906	1,994	2,193	24,502
Total	4,927	4,299	4,236	4,247	3,670	3,615	3,859	3,895	3,725	3,904	3,810	4,080	48,267
Monthly Coefficient*	1.225	1.069	1.053	1.056	0.912	0.899	0.959	0.968	0.926	0.971	0.947	1.014	12.000
1976													
Embarking	1,628	1,769	1,880	1,840	2,127	1,977	1,921	2,007	1,845	1,698	1,962	2,114	22,768
Disembarking	1,659	1,938	1,919	1,834	2,288	2,069	2,127	2,033	1,852	1,740	1,905	2,462	23,826
Total	3,287	3,707	3,799	3,674	4,415	4,046	4,048	4,040	3,697	3,438	3,867	4,576	46,594
Monthly Coefficient*	0.847	0.955	0.978	0.946	1.137	1.042	1.042	1.040	0.952	0.885	0.996	1.178	12.000
1977													
Embarking	2,237	2,221	2,366	2,310	2,313	2,314	2,339	2,498	2,360	2,438	2,638	2,623	28,657
Disembarking	1,789	2,082	2,183	1,832	2,043	2,101	2,154	2,399	2,123	2,201	2,391	2,698	25,996
Total	4,026	4,303	4,549	4,142	4,356	4,415	4,493	4,897	4,483	4,639	5,029	5,321	54,653
Monthly Coefficient*	0.884	0.945	0.999	0.910	0.957	0.969	0.987	1.075	0.984	1.019	1.104	1.168	12.000
Averaged Monthly Coefficient	1.985	0.990	1.010	0.971	1.002	0.970	0.996	1.028	0.954	0.958	1.016	1.120	12.000

* Average Number of Monthly Passengers = 1.000

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-31 PAST DEVELOPMENT OF NUMBER OF SMALL AIRCRAFT REGISTERED AT TONCONTIN AIRPORT

Year	Number
1966	41
1967	48
1968	53
1969	54
1970	56
1971	64
1972	68
1973	71
1974	76
1975	85
1976	102

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

Table 2A-32 NUMBER OF EMPLOYEES AT TONCONTIN AIRPORT

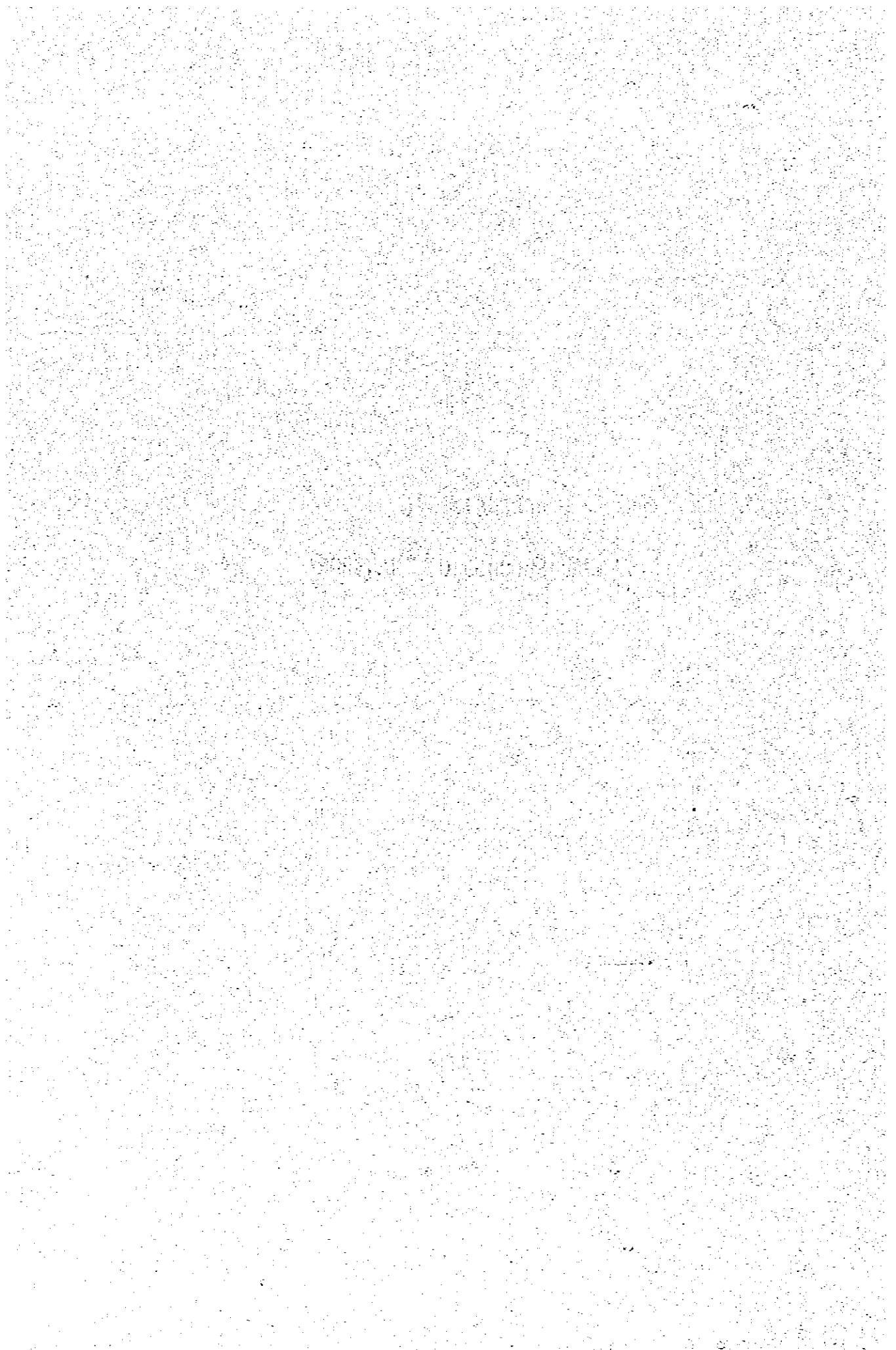
(As of March 15, 1978)

Name of the Office	Number
General Direction of Civil Aviation	221
COCESNA	65
TAN-SAHSA	42
AEROSERVICIOS	16
LANSA	2
Post Office	7
Public Health Office	2
Police	23
Immigration Office	11
Customs	48
Quarantine Office	4
Tourism Office	4
Cargo Agent	11
Airport Radio Service	3
Gift Shop	7
Restaurant	6
Total	472

Source: DIRECCION GENERAL DE AERONAUTICA CIVIL

APPENDIX 2B

ANNUAL RECORDS OF TRANSPORT



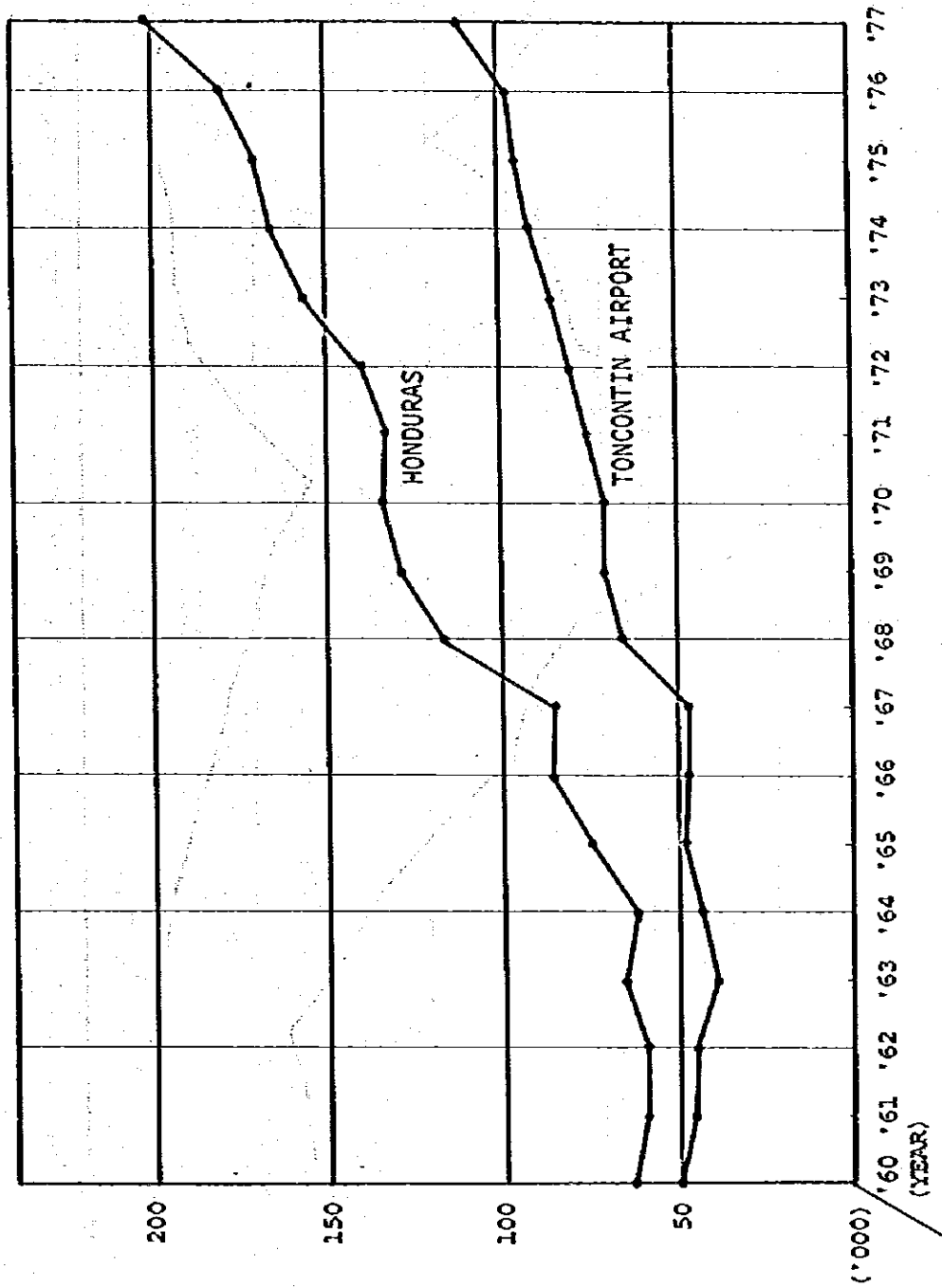


FIG. 2B-1 PAST DEVELOPMENT OF INTERNATIONAL EMBARKING & DISEMBARKING PASSENGER TRAFFIC IN THE REPUBLIC OF HONDURAS

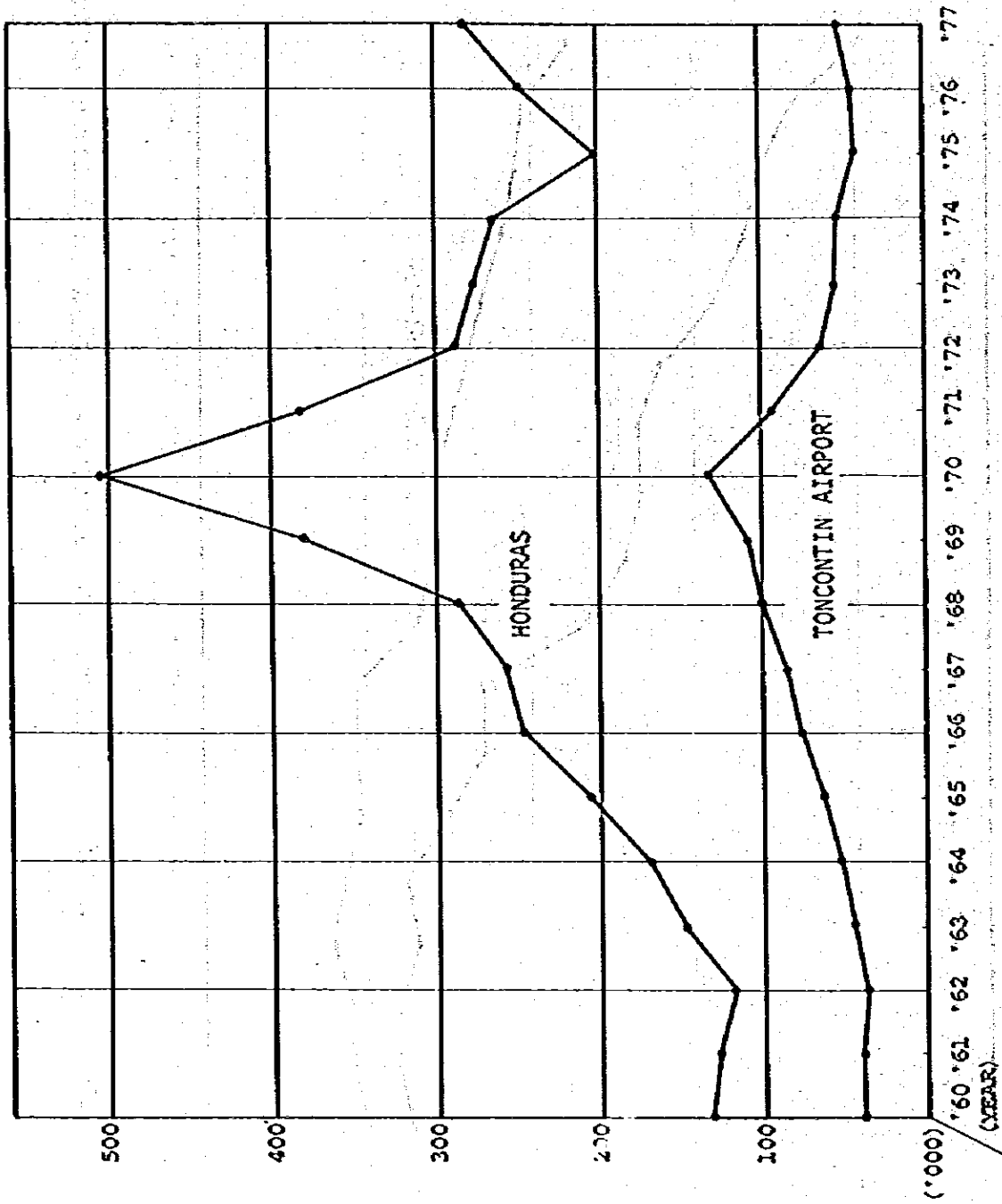


Fig. 2B-2 PAST DEVELOPMENT OF DOMESTIC EMBARKING & DISEMBARKING PASSENGER TRAFFIC IN THE REPUBLIC OF HONDURAS

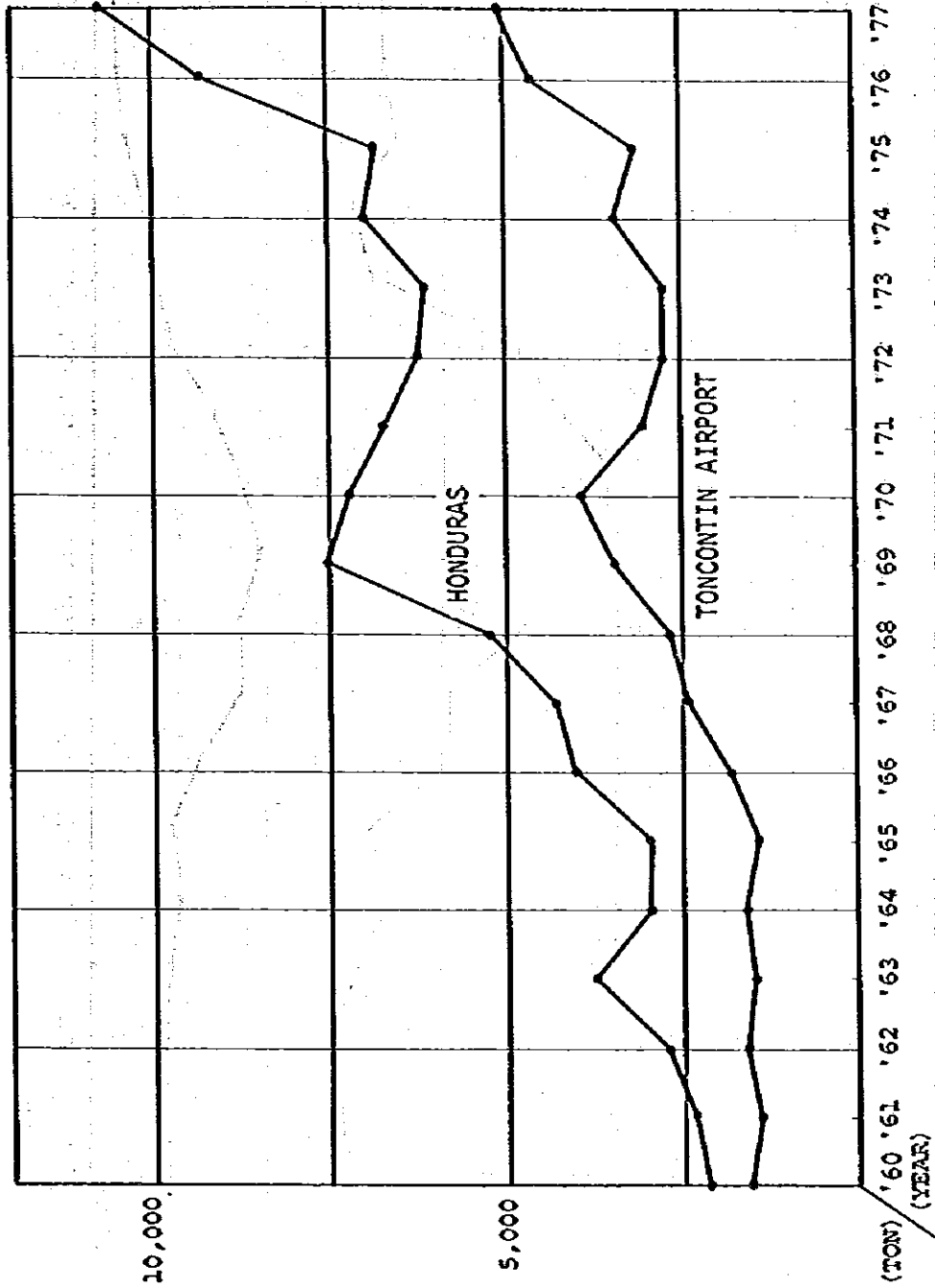


FIG. 2B-3 PAST DEVELOPMENT OF INTERNATIONAL LOADED & UNLOADED CARGO TRAFFIC IN THE REPUBLIC OF HONDURAS

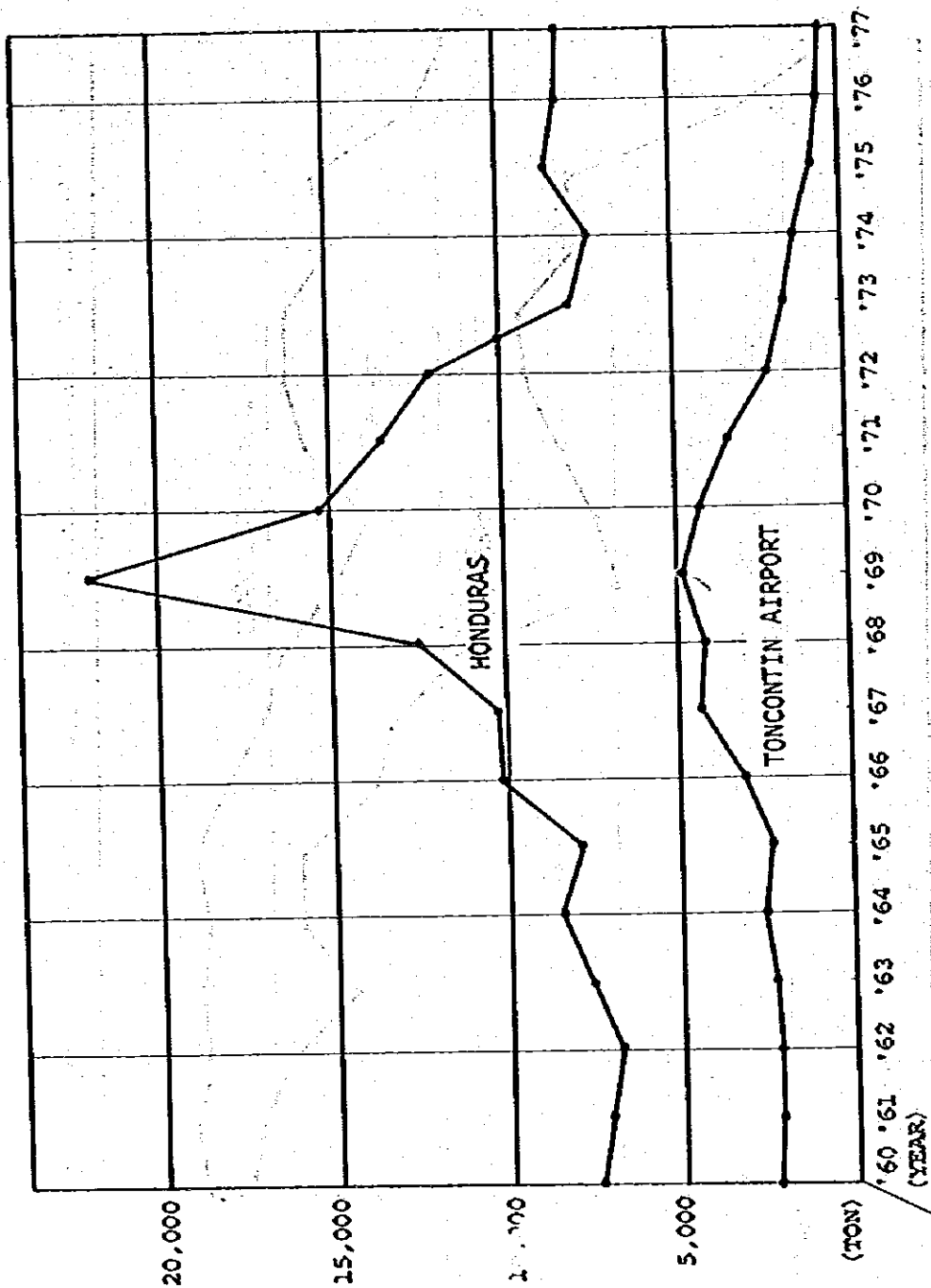


FIG. 2B-4 PAST DEVELOPMENT OF DOMESTIC LOADED & UNLOADED CARGO TRAFFIC IN THE REPUBLIC OF HONDURAS

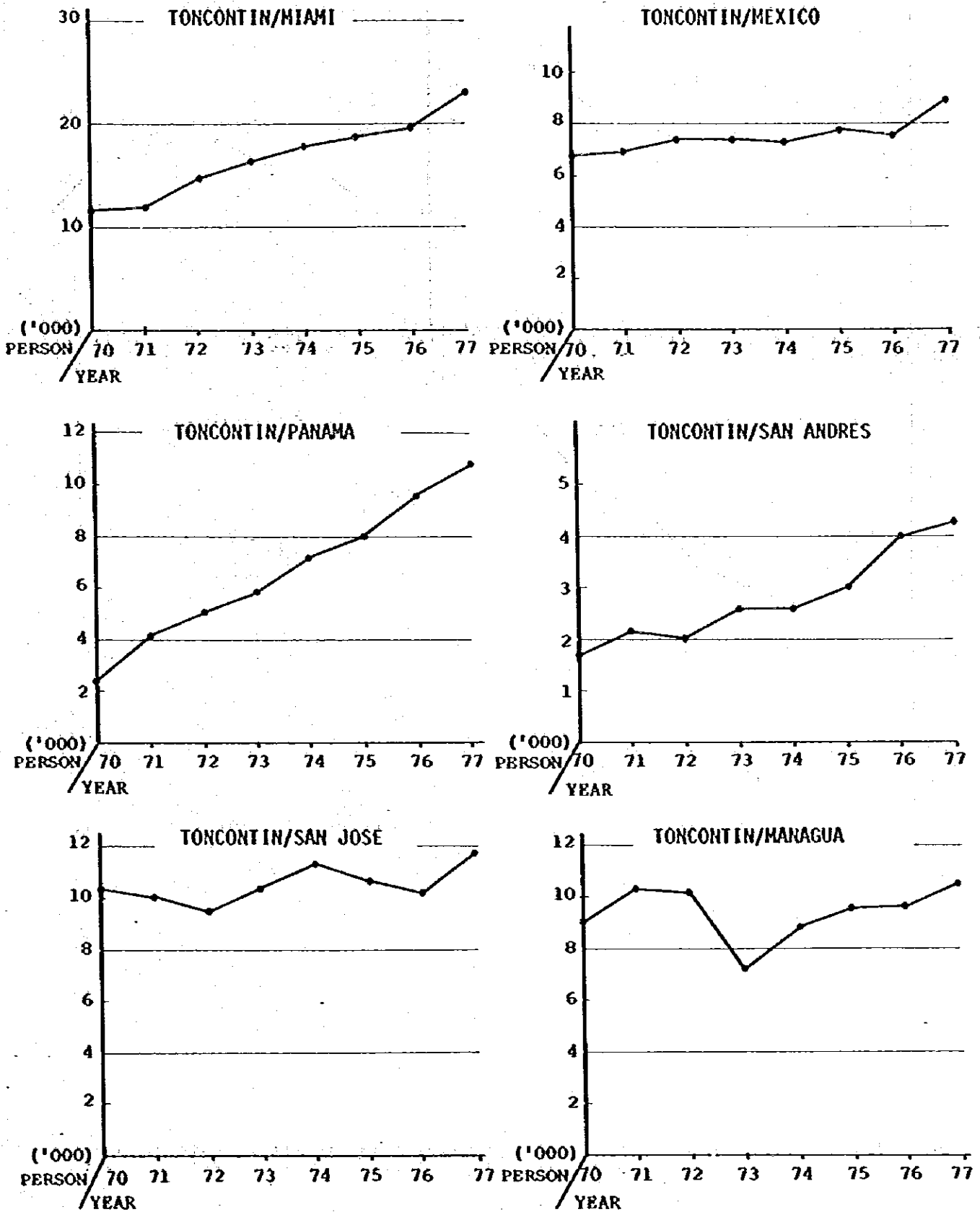


Fig 2B-5 (1) INTERNATIONAL EMBARKING & DISEMBARKING PASSENGERS BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT [1970 - 1977]

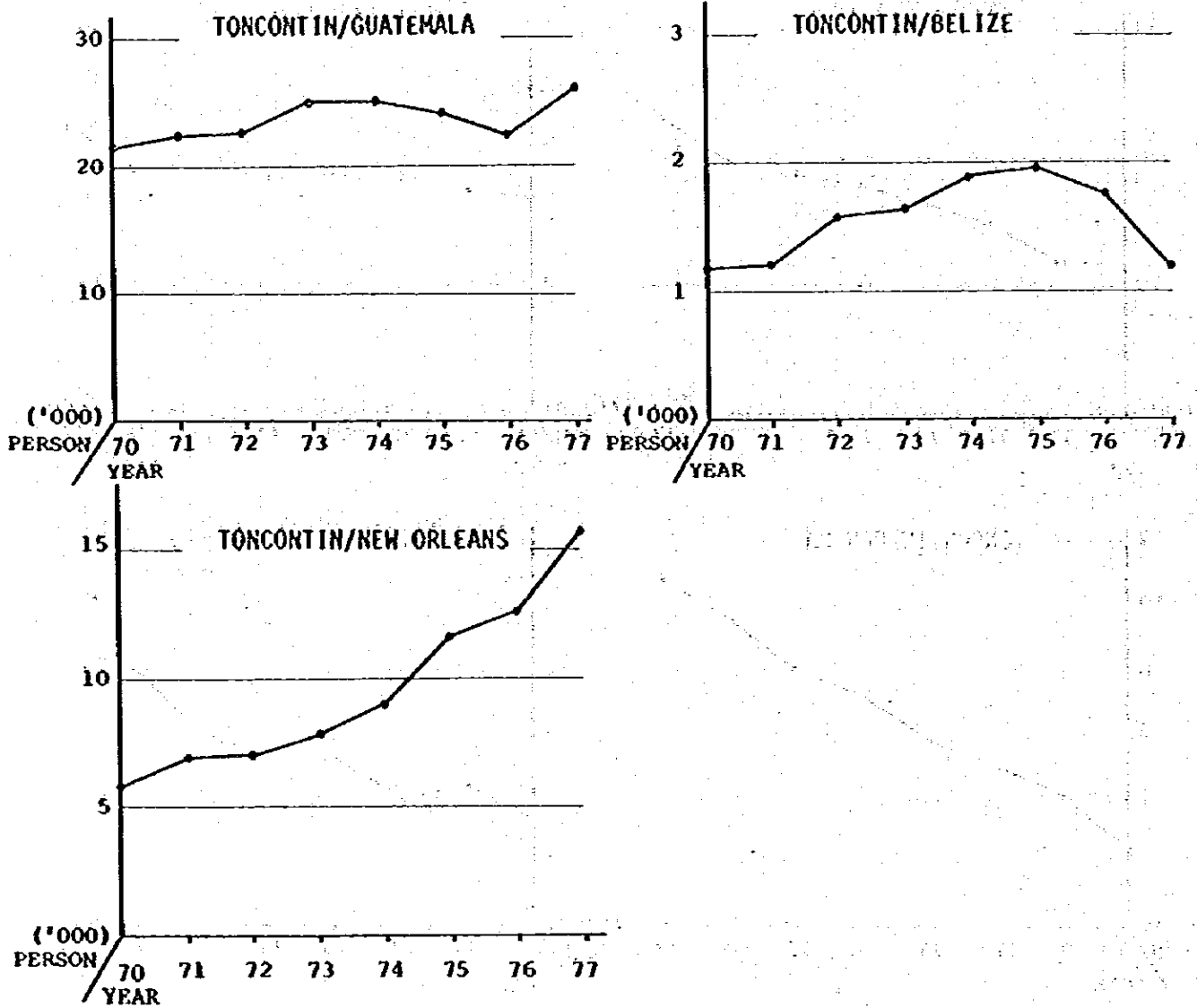


Fig. 2B-5 (2) INTERNATIONAL EMBARKING & DISEMBARKING PASSENGERS BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT [1970 - 1977]

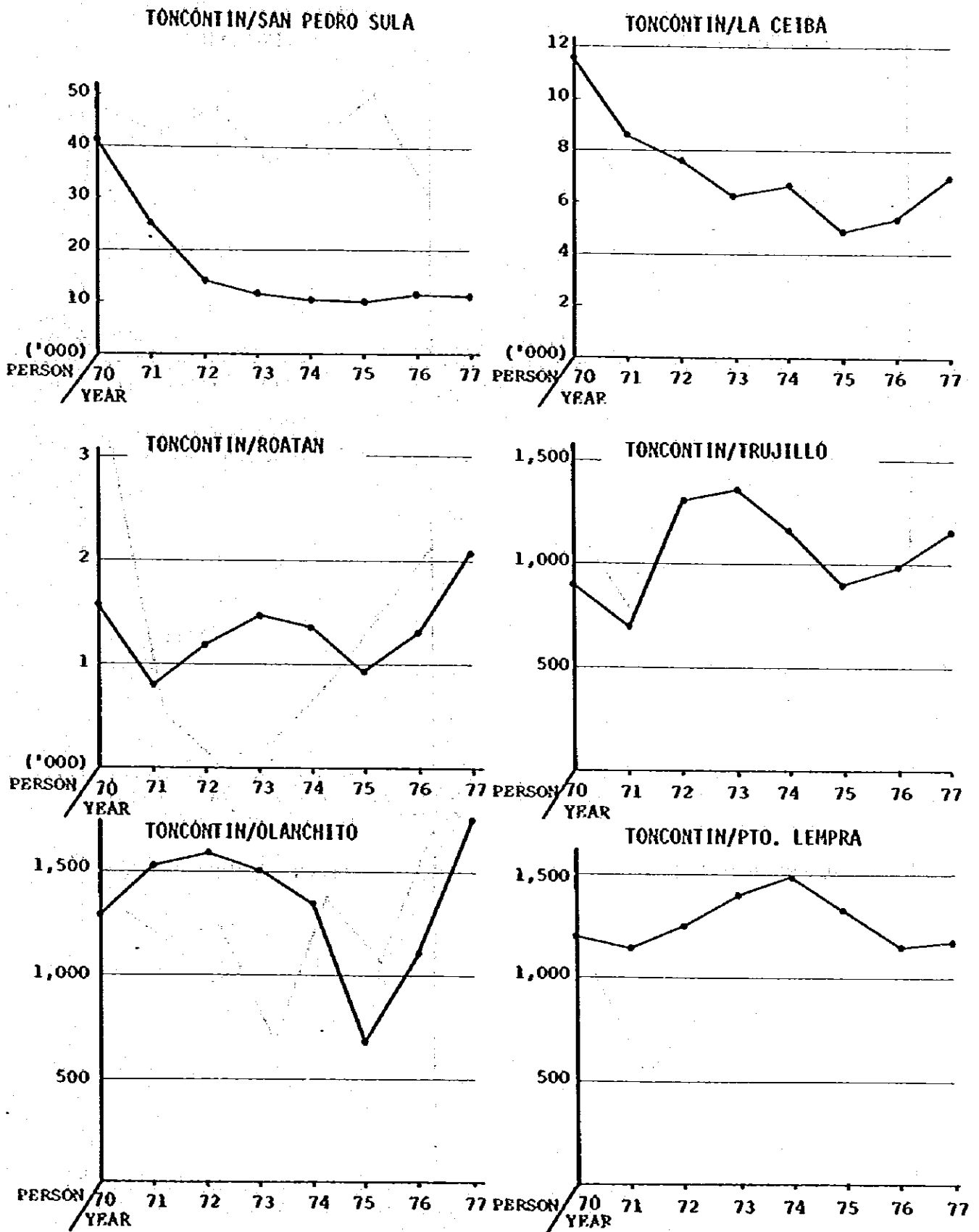


Fig. 2B-6 DOMESTIC EMBARKING & DISEMBARKING PASSENGERS BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT [1970 - 1977]

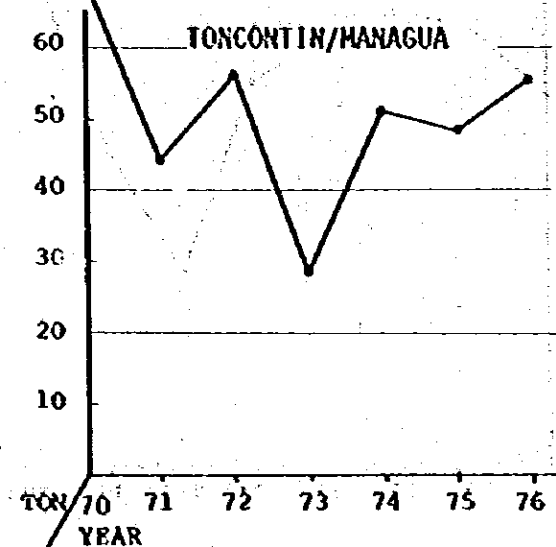
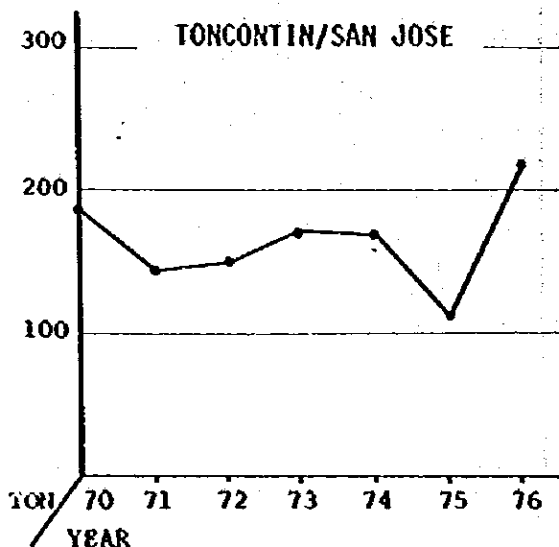
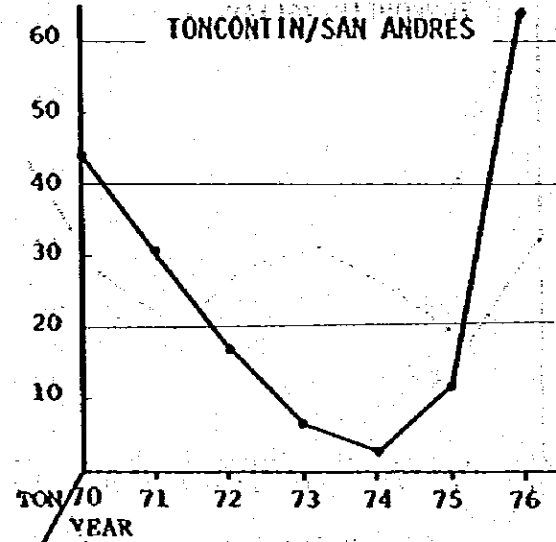
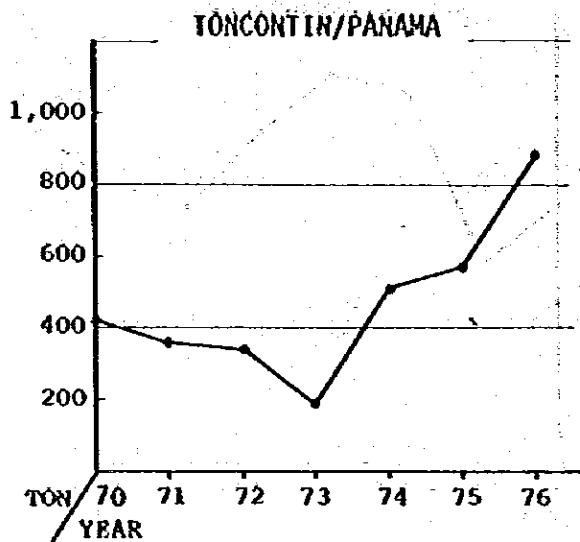
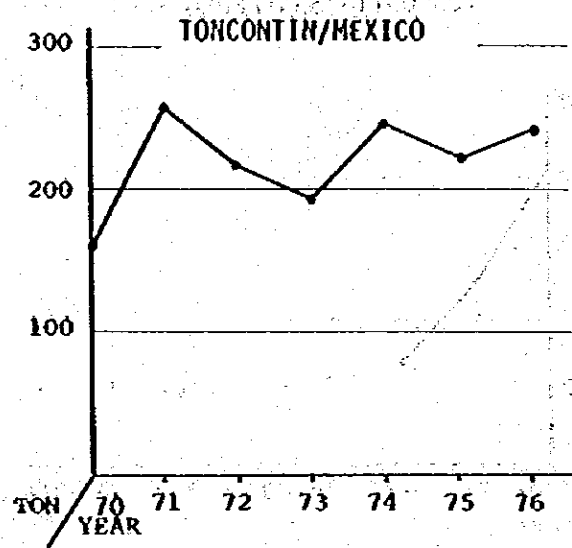
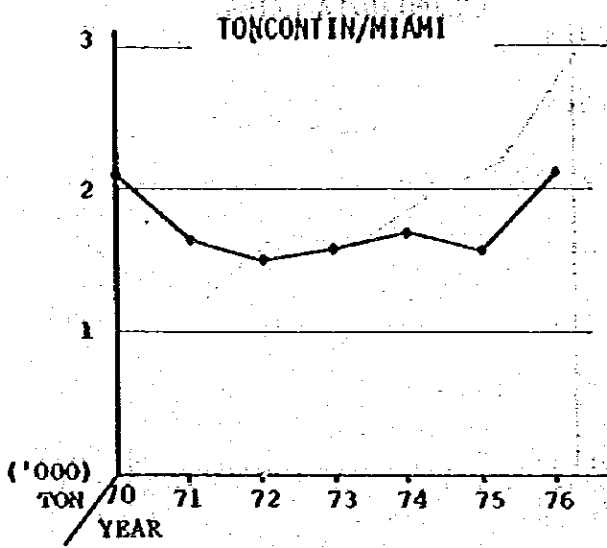


Fig. 2B-7 (1) INTERNATIONAL LOADED & UNLOADED CARGO BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT [1970 - 1976]

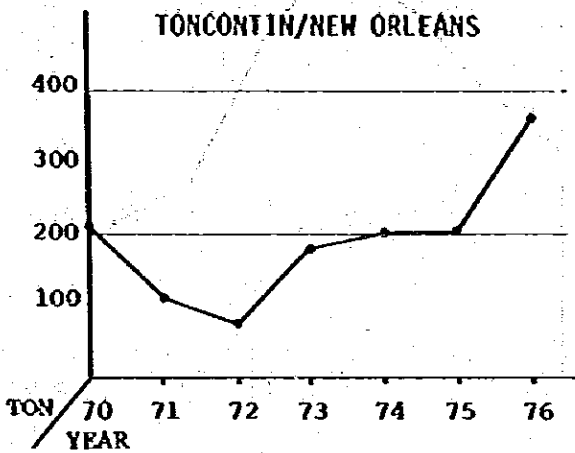
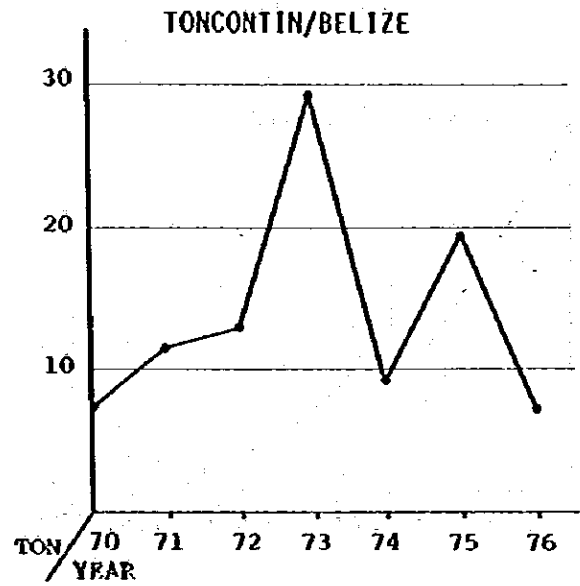
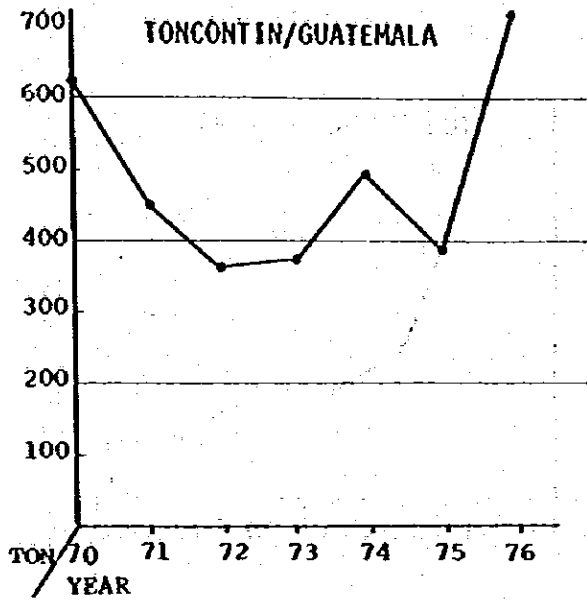


Fig. 2B-7 (2) INTERNATIONAL LOADED & UNLOADED CARGO BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT [1970 - 1976]

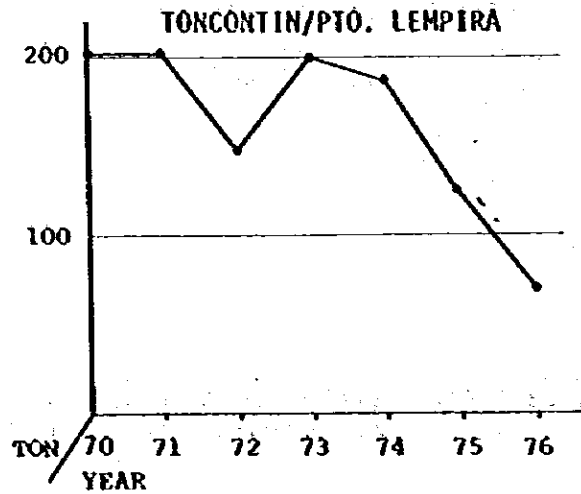
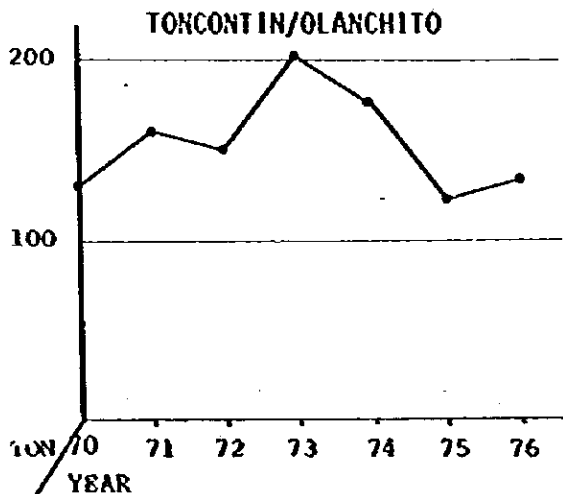
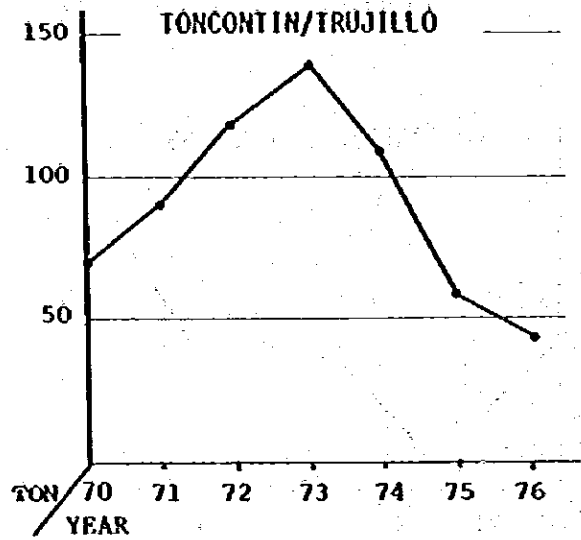
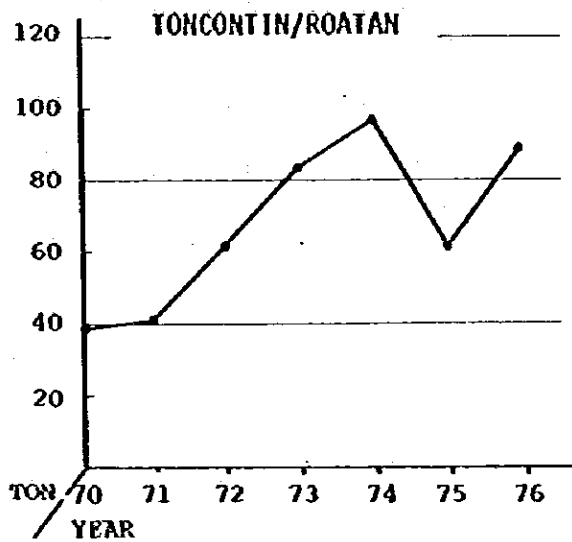
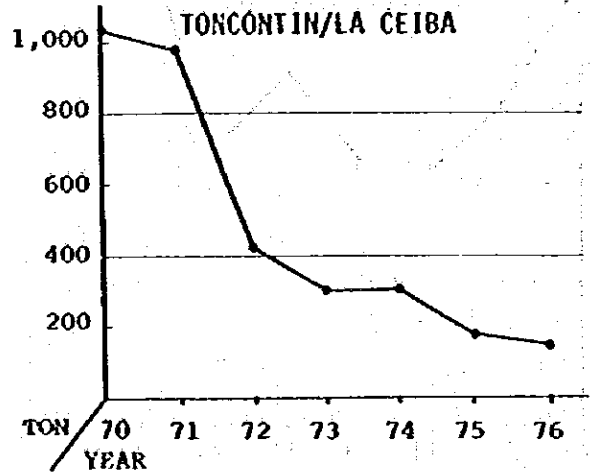
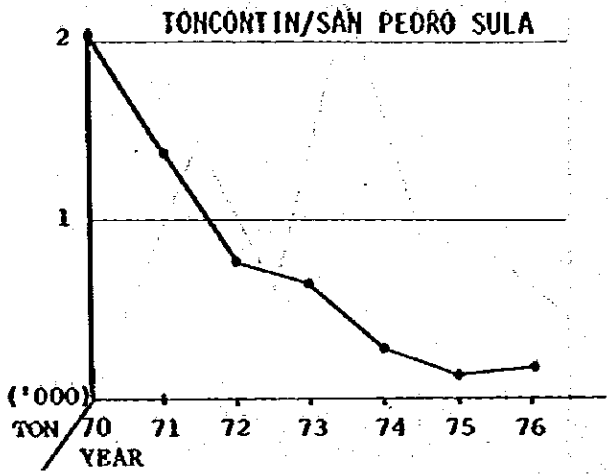
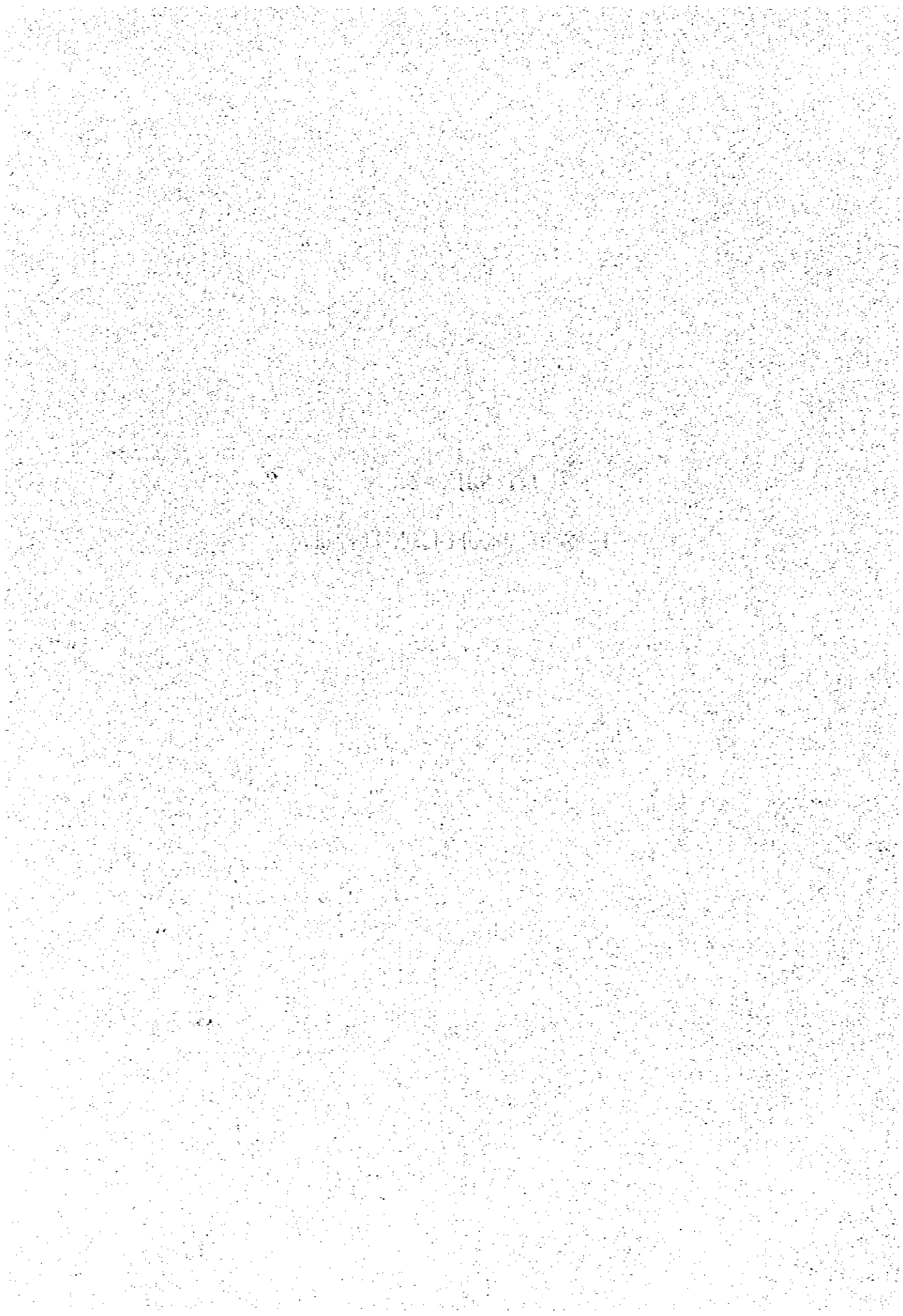


Fig. 2B-8 DOMESTIC LOADED & UNLOADED CARGO BY ORIGIN/DESTINATION AT TONCONTIN AIRPORT [1970 - 1976]

APPENDIX 3A

LISTS OF PROJECTION FORMULA



1. Forecast of International Embarking & Disembarking Passengers
in the Republic of Honduras

$$\text{[Formula 1]} \quad \text{Log } Y_t = -1.1656 + 1.1340 \text{ Log } X_t + 0.4094 \text{ Log } Y_{t-1}$$

where: Y_t = International Embarking & Disembarking
Passengers in Honduras at year t

X_t = Gross Domestic Product in Honduras at
year t

$$(R = 0.989, DWR = 2.272, n = 18)$$

2. Forecast of International Embarking & Disembarking Passengers
at Toncontin Airport

$$\text{[Formula 2]} \quad \text{Log } Y_t = -0.9902 + 1.1393 \text{ Log } X_t + 0.3673 \text{ Log } Y_{t-1}$$

where: Y_t = International Embarking & Disembarking
Passengers at Toncontin Airport at
year t

X_t = Gross Domestic Product in Honduras at
year t

$$(R = 0.971, DWR = 1.818, n = 18)$$

3. Forecast of International Embarking & Disembarking Passengers
by Route at Toncontin Airport

3.1 TGU - MIA Route

$$\text{[Formula 3]} \quad Y_t = -9,548 + 0.2945 X_t$$

where: Y_t = International Embarking & Disembarking
Passengers by TGU - MIA Route at year
t

X_t = Total International Embarking & Dis-
embarking Passengers at Toncontin Air-
port at year t

$$(R = 0.985)$$

3.2 TGU - MEX Route

$$\text{[Formula 4]} \quad Y_t = 3,513 + 0.0436 X_t$$

where: Y_t = International Embarking & Disembarking Passengers by TGU - MEX Route at year t

X_t = Total International Embarking & Disembarking Passengers at Toncontin Airport at year t

$$(R = 0.917)$$

3.3 TGU - PTY Route

$$\text{[Formula 5]} \quad Y_t = 11,356 + 0.2027 X_t$$

where: Y_t = International Embarking & Disembarking Passengers by TGU - PTY Route at year t

X_t = Total International Embarking & Disembarking Passengers at Toncontin Airport at year t

$$(R = 0.980)$$

3.4 TGU - ADZ Route

$$\text{[Formula 6]} \quad Y_t = -2,900 + 0.0641 X_t$$

where: Y_t = International Embarking & Disembarking Passengers by TGU - ADZ Route at year t

X_t = Total International Embarking & Disembarking Passengers at Toncontin Airport at year t

$$(R = 0.931)$$

3.5 TGU - SJO Route

$$\text{[Formula 7]} \quad Y_t = 7,453 + 0.0349 X_t$$

where: Y_t = International Embarking & Disembarking Passengers by TGU - SJO Route at year t

X_t = Total International Embarking & Disembarking Passengers at Toncontin Airport at year t

$$(R = 0.607)$$

3.6 TGU - MGA Route

$$\text{[Formula 8]} \quad Y_t = 8,012 + 0.0159 X_t$$

where: Y_t = International Embarking & Disembarking
Passengers by TGU - MGA Route at year t

X_t = Total International Embarking & Dis-
embarking Passengers at Toncontin Air-
port at year t

$$(R = 0.446)$$

3.7 TGU - GUA Route

$$\text{[Formula 9]} \quad Y_t = 16,357 + 0.0841 X_t$$

where: Y_t = International Embarking & Disembarking
Passengers by TGU - GUA Route at year t

X_t = Total International Embarking & Dis-
embarking Passengers at Toncontin Air-
port at year t

$$(R = 0.670)$$

3.8 TGU - BZE Route

$$\text{[Formula 10]} \quad Y_t = 1,042 + 0.0059 X_t$$

where: Y_t = International Embarking & Disembarking
Passengers by TGU - BZE Route at year t

X_t = Total International Embarking & Dis-
embarking Passengers at Toncontin Air-
port at year t

$$(R = 0.413)$$

3.9 TGU - MSY Route

$$\text{[Formula 11]} \quad Y_t = -12,463 + 0.2487 X_t$$

where: Y_t = International Embarking & Disembarking
Passengers by TGU - MSY Route at year t

X_t = Total International Embarking & Dis-
embarking Passengers at Toncontin Air-
port at year t

$$(R = 0.967)$$

4. Forecast of International Embarking & Disembarking Passengers Generated by New Route

$$\text{[Formula 12]} \quad T_{ij} = 0.5368 \frac{P_i P_j}{D_{ij}^{1.7558}}$$

where: T_{ij} = Number of Passengers between cities i and j

P_i = Number of Population in city i

P_j = Number of Population in city j

D_{ij} = Travel Time between cities i and j
(Including trip time from downtown to airport)

5. Forecast of International Transit Passengers at Toncontin Airport

$$\text{[Formula 13]} \quad Y_t = -17,002 + 0.8365 X_t$$

where: Y_t = International Transit Passengers at Toncontin Airport at year t

X_t = International Embarking & Disembarking Passengers at Toncontin Airport at year t

(R = 0.916)

6. Forecast of Domestic Embarking & Disembarking Passengers in the Republic of Honduras

$$\text{[Formula 14]} \quad Y_t = -850,029 + 1,447 X_t + 77,687 Z_t + 0.7765 Y_{t-1}$$

where: Y_t = Domestic Embarking & Disembarking Passengers in Honduras at year t

X_t = Per capita GDP in Honduras at year t

$Z_t = TR_t/TA_t$

where: TR_t = Travel Time by road between Tegucigalpa and San Pedro Sula at year t

TA_t = Travel Time by air between Tegucigalpa and San Pedro Sula at year t

($R = 0.917$, $DWR = 2.001$, $n = 18$)

7. Forecast of Domestic Embarking & Disembarking Passengers at Toncontin Airport

$$\text{[Formula 15]} \quad Y_t = -207,281 + 325 X_t + 23,172 Z_t + 0.7769 Y_{t-1}$$

where: Y_t = Domestic Embarking & Disembarking Passengers at Toncontin Airport

X_t = Per capita GDP in Honduras at year t

$Z_t = TR_t/TA_t$

where: TR_t = Travel Time by road between Tegucigalpa and San Pedro Sula at year t

TA_t = Travel Time by air between Tegucigalpa and San Pedro Sula at year t

($R = 0.961$, $DWR = 2.198$, $n = 18$)

8. Forecast of Domestic Embarking & Disembarking Passengers by Route at Toncontin Airport

8.1 TGU - SAP Route

[Formula 16] $Y_t = 12,740 + 0.1927 X_t$

where: Y_t = Domestic Embarking & Disembarking Passengers by TGU - SAP Route at year t

X_t = Total Domestic Embarking & Disembarking Passengers at Toncontin Airport at year t

(R = 0.863)

8.2 TGU - LCE Route

[Formula 17] $Y_t = -3,099 + 0.3206 X_t$

where: Y_t = Domestic Embarking & Disembarking Passengers by TGU - LCE Route at year t

X_t = Total Domestic Embarking & Disembarking Passengers at Toncontin Airport at year t

(R = 0.795)

8.3 TGU - ROA Route

[Formula 18] $Y_t = -933 + 0.0824 X_t$

where: Y_t = Domestic Embarking & Disembarking Passengers by TGU - ROA Route at year t

X_t = Total Domestic Embarking & Disembarking Passengers at Toncontin Airport at year t

(R = 0.767)

8.4 TGU - TJI Route

$$\text{[Formula 19]} \quad Y_t = 6.9 + 0.0414 X_t$$

where: Y_t = Domestic Embarking & Disembarking
Passengers by TGU - TJI Route at
year t

X_t = Total Domestic Embarking & Dis-
embarking Passengers at Toncontin
Airport at year t

$$(R = 0.999)$$

8.5 TGU - OAN Route

$$\text{[Formula 20]} \quad Y_t = -3,535 + 0.1249 X_t$$

where: Y_t = Domestic Embarking & Disembarking
Passengers by TGU - OAN Route at
year t

X_t = Total Domestic Embarking & Disembark-
ing Passengers at Toncontin Airport
at year t

$$(R = 0.831)$$

8.6 TGU - PLP Route

$$\text{[Formula 21]} \quad Y_t = 880 + 0.0365 X_t$$

where: Y_t = Domestic Embarking & Disembarking
Passengers by TGU - PLP Route at
year t

X_t = Total Domestic Embarking & Disembark-
ing Passengers at Toncontin Airport
at year t

$$(R = 0.728)$$

9. Forecast of Domestic Embarking & Disembarking Passengers
by Route

$$\text{[Formula 22]} \quad T_{ij} = 0.465 \frac{P_i P_j}{D_{ij} 0.5452}$$

where: T_{ij} = Number of Passengers between cities
i and j

P_i = Number of Population in city i

P_j = Number of Population in city j

D_{ij} = Travel Time between cities i and j

10. Forecast of International Loaded & Unloaded Air Cargo in the Republic of Honduras

[Formula 23] $\text{Log } Y_t = -2.6929 + 1.0679 \text{ Log } X_t + 0.4332 \text{ Log } Y_{t-1}$

where: Y_t = International Loaded & Unloaded Air Cargo in Honduras at year t

X_t = Gross Domestic Product in Honduras at year t

($R = 0.941$, $DWR = 1.820$, $n = 18$)

11. Forecast of International Loaded & Unloaded Air Cargo at Toncontin Airport

[Formula 24] $\text{Log } Y_t = -2.5672 + 0.8970 \text{ Log } X_t + 0.5198 \text{ Log } Y_{t-1}$

where: Y_t = International Loaded & Unloaded Air Cargo at Toncontin Airport at year t

X_t = Gross Domestic Product in Honduras at year t

($R = 0.932$, $DWR = 1.806$, $n = 18$)

12. Forecast of International Loaded & Unloaded Air Cargo Generated by New Route

[Formula 25] $T_{ij} = 32.265 \frac{G_i G_j}{D_{ij}^{2.1075}}$

where: T_{ij} = International Air Cargo Tonnage between cities i and j

G_i = (Number of population in city i) x (Per capita GDP in city i)

G_j = (Number of Population in city j) x (Per capita GDP in city j)

D_{ij} = Travel Time between cities i and j

13. Forecast of Domestic Loaded & Unloaded Air Cargo in the Republic of Honduras

[Formula 26] $Y_t = -3,517 + 0.2197 X_t + 1,583 Z_t + 0.8049 Y_{t-1}$

where: Y_t = Domestic Loaded & Unloaded Air Cargo in Honduras at year t

X_t = Gross Domestic Product in Honduras at year t

$$Z_t = TR_t/TA_t$$

where: TR_t = Travel Time by road between Tegucigalpa and San Pedro Sula at year t

TA_t = Travel Time by air between Tegucigalpa and San Pedro Sula at year t

$$(R = 0.726, DWR = 2.616, n = 18)$$

14. Forecast of Domestic Loaded & Unloaded Air Cargo at Toncontin Airport

[Formula 27] $\log Y_t = -1.8335 + 1.0594 \log X_t$

where: Y_t = Domestic Loaded & Unloaded Air Cargo at Toncontin Airport at year t

X_t = Domestic Loaded & Unloaded Air Cargo in Honduras at year t

$$(R = 0.935)$$

15. Forecast of Number of Small Aircraft Registered at Toncontin Airport

[Formula 28] $Y = -82 + 0.11 X$

where: Y = Number of small aircraft registered at Toncontin Airport

X = Gross Domestic Product (in 1966 constant prices)

$$(R = 0.959)$$

APPENDIX 4A

STAGE LENGTH-PAYLOAD RELATIONSHIP



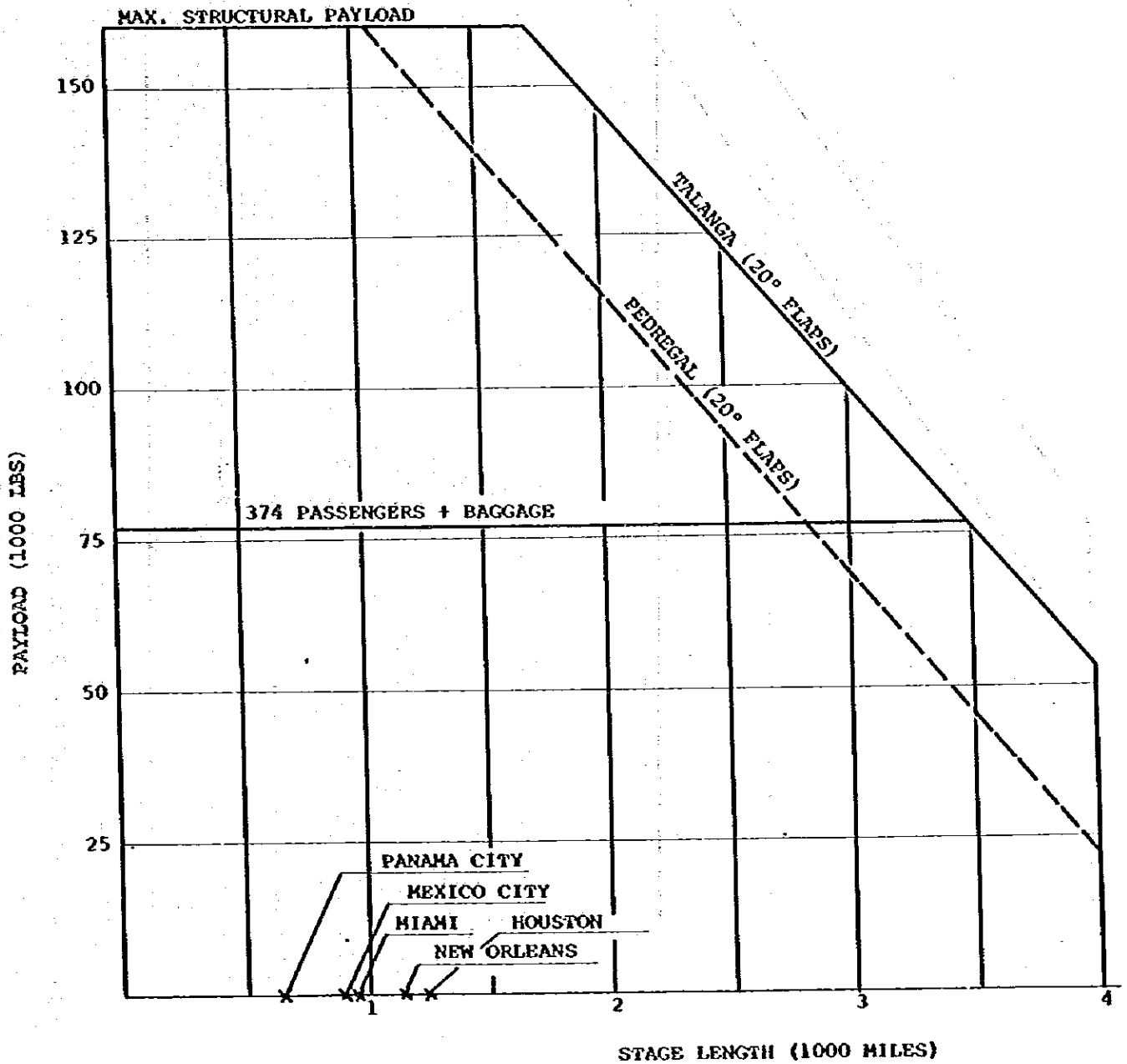


Fig. 4A-1 STAGE LENGTH - PAYLOAD RELATIONSHIP (B-747)

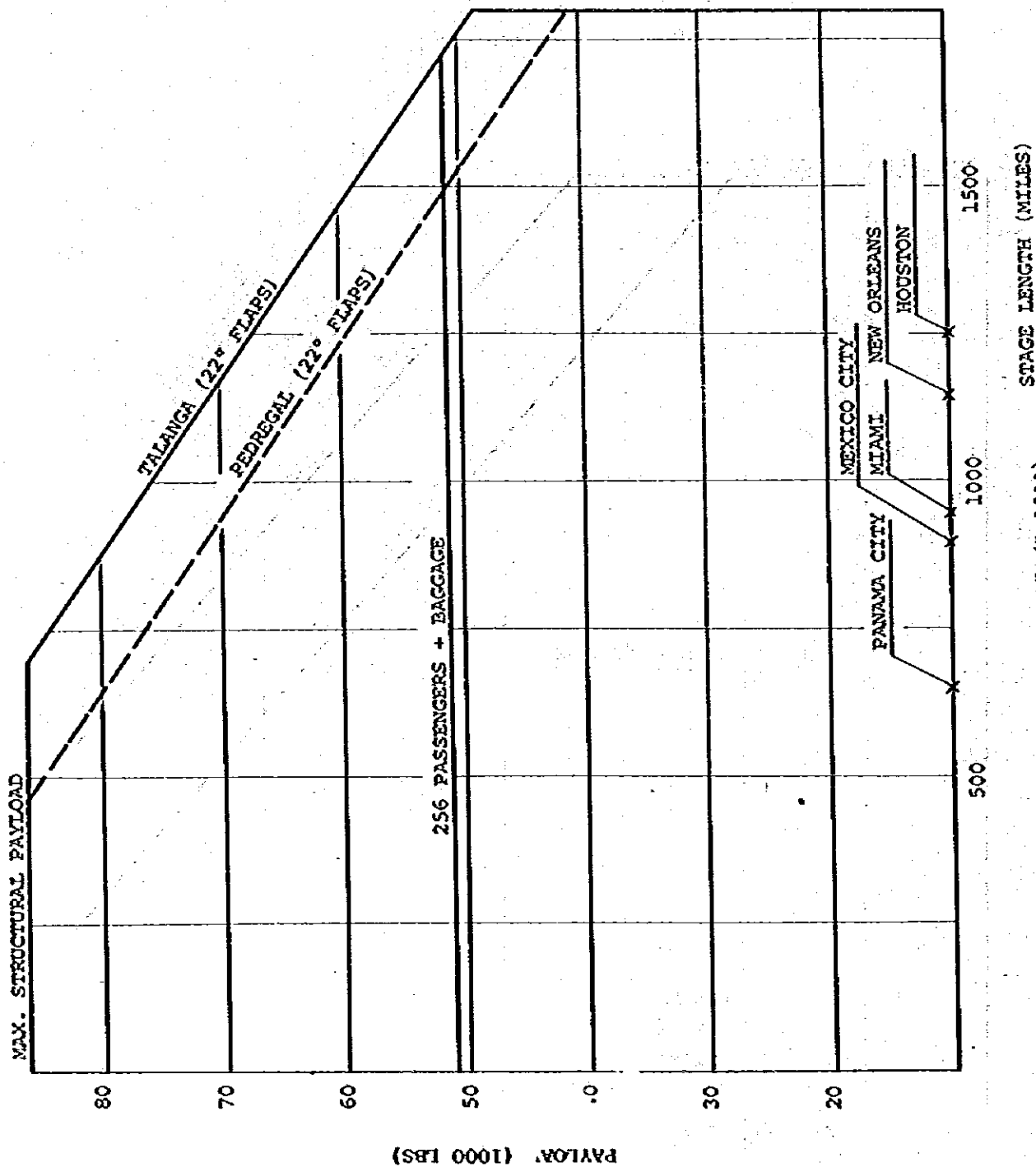


Fig. 4A-2 STAGE LENGTH - PAYLOAD RELATIONSHIP (L-1011)

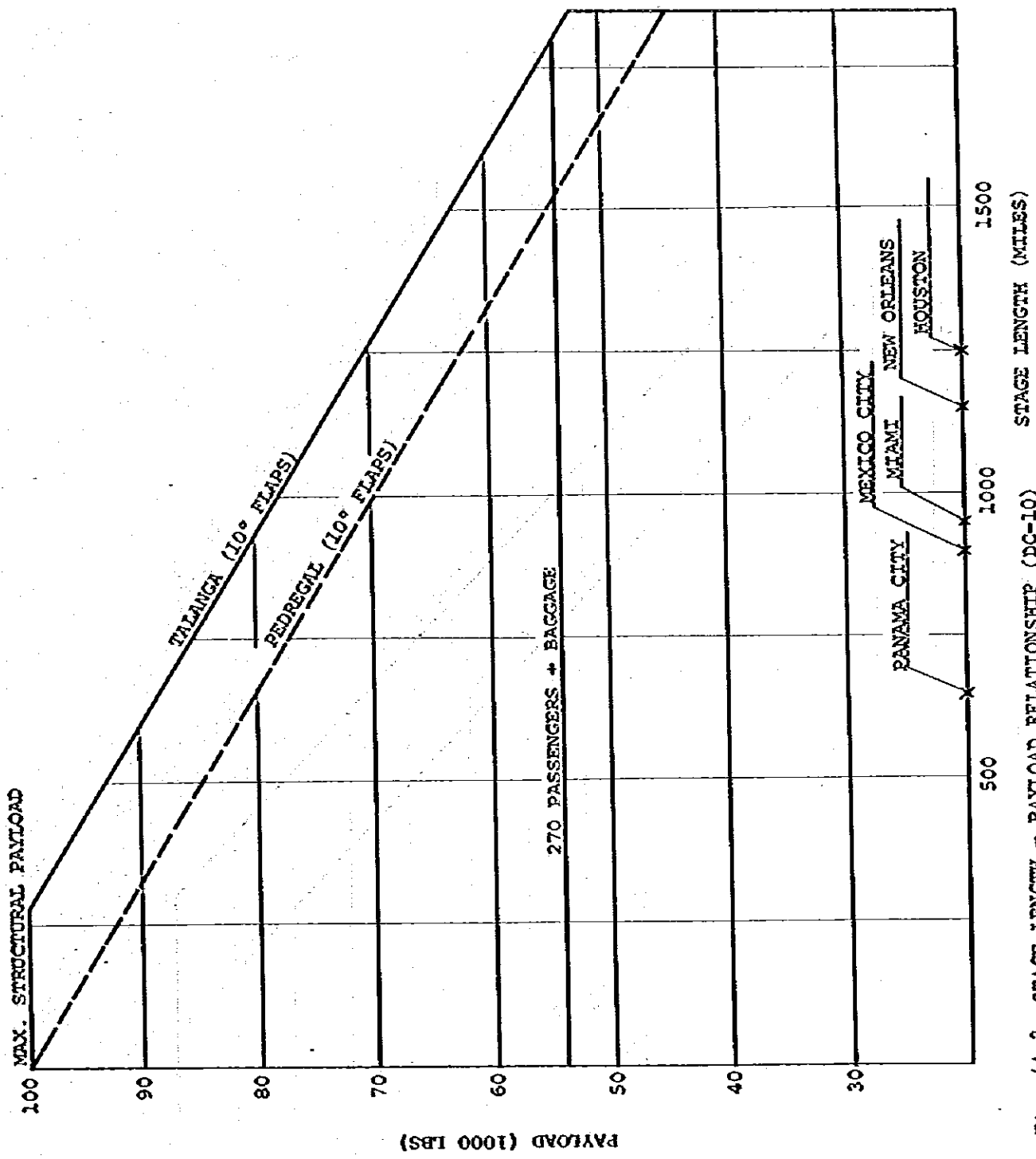


FIG. 4A-3 STAGE LENGTH - PAYLOAD RELATIONSHIP (DC-10)

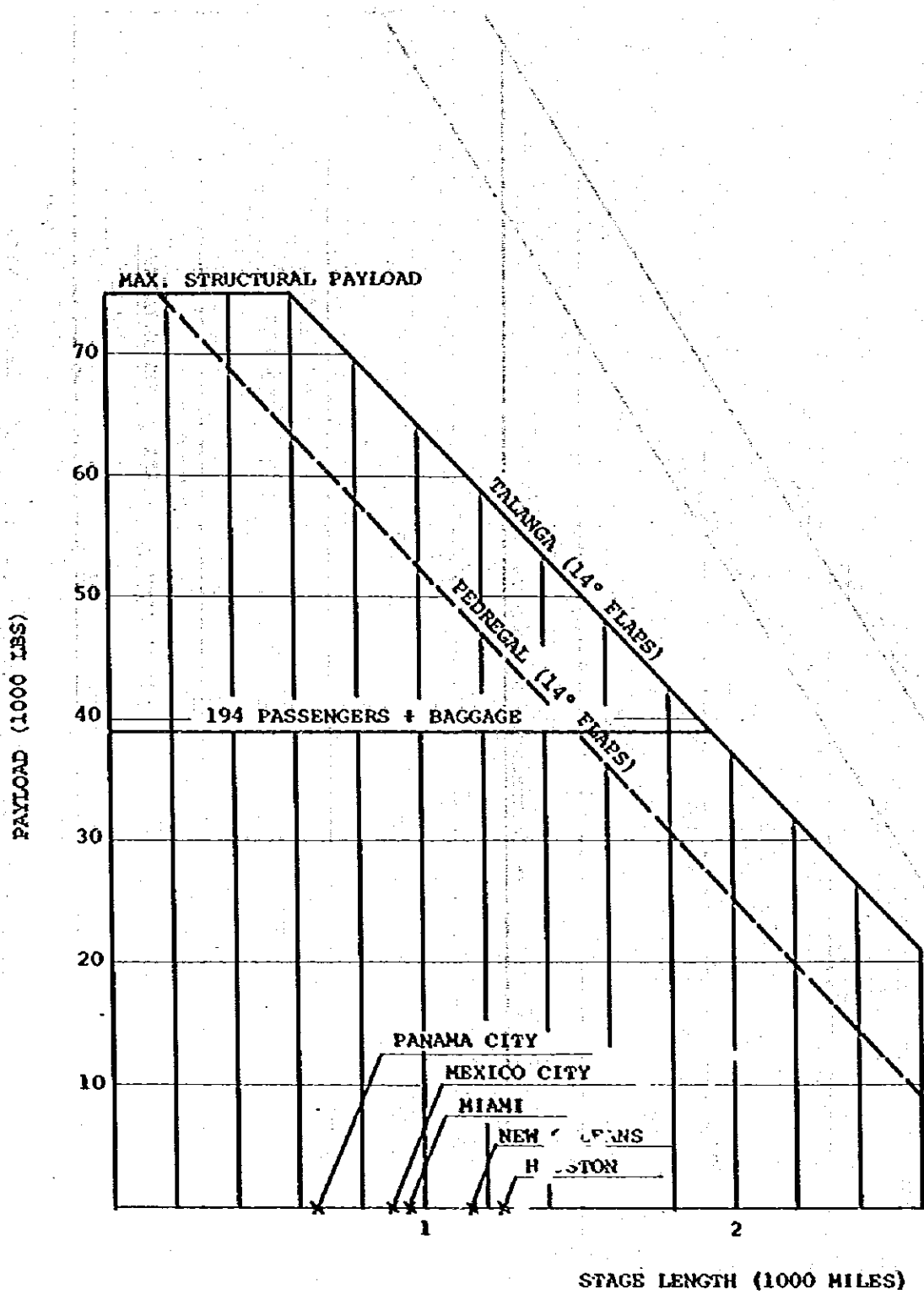


Fig. 4A-4 STAGE LENGTH - PAYLOAD RELATIONSHIP (B-707)

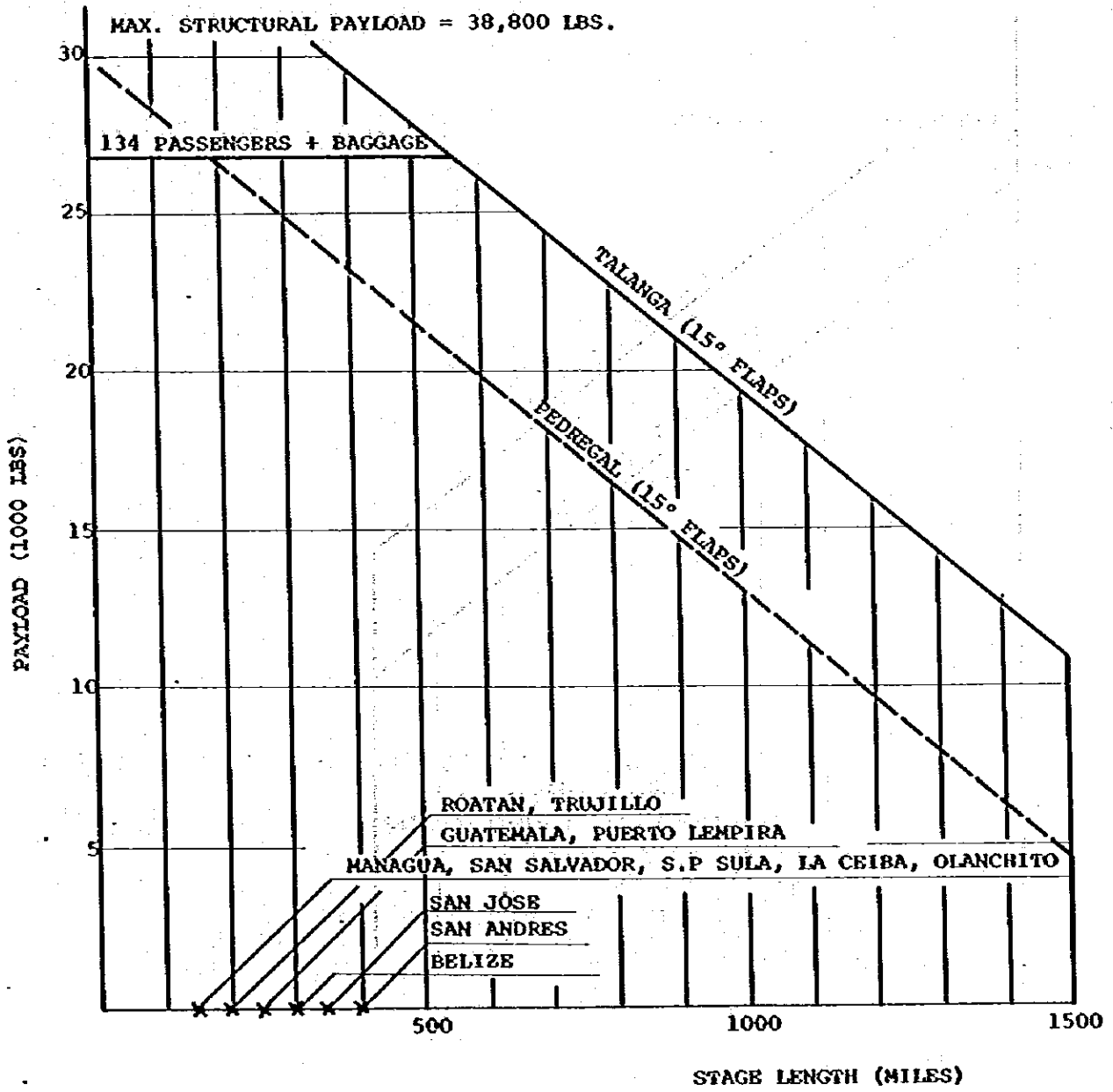


Fig. 4A-5 STAGE LENGTH - PAYLOAD RELATIONSHIP (B-727)

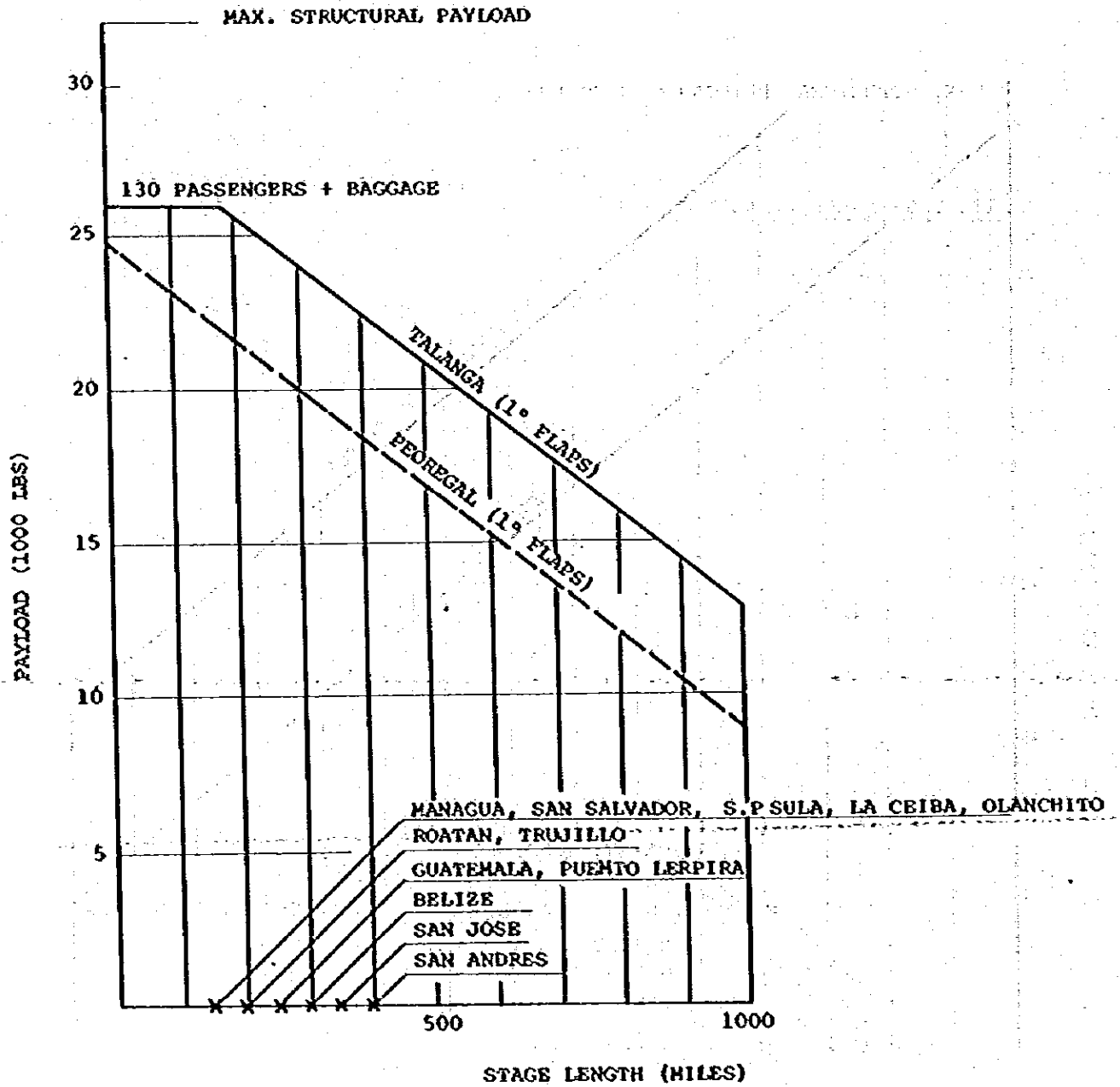


Fig. 4A-6 STAGE LENGTH - PAYLOAD RELATIONSHIP (B-737)

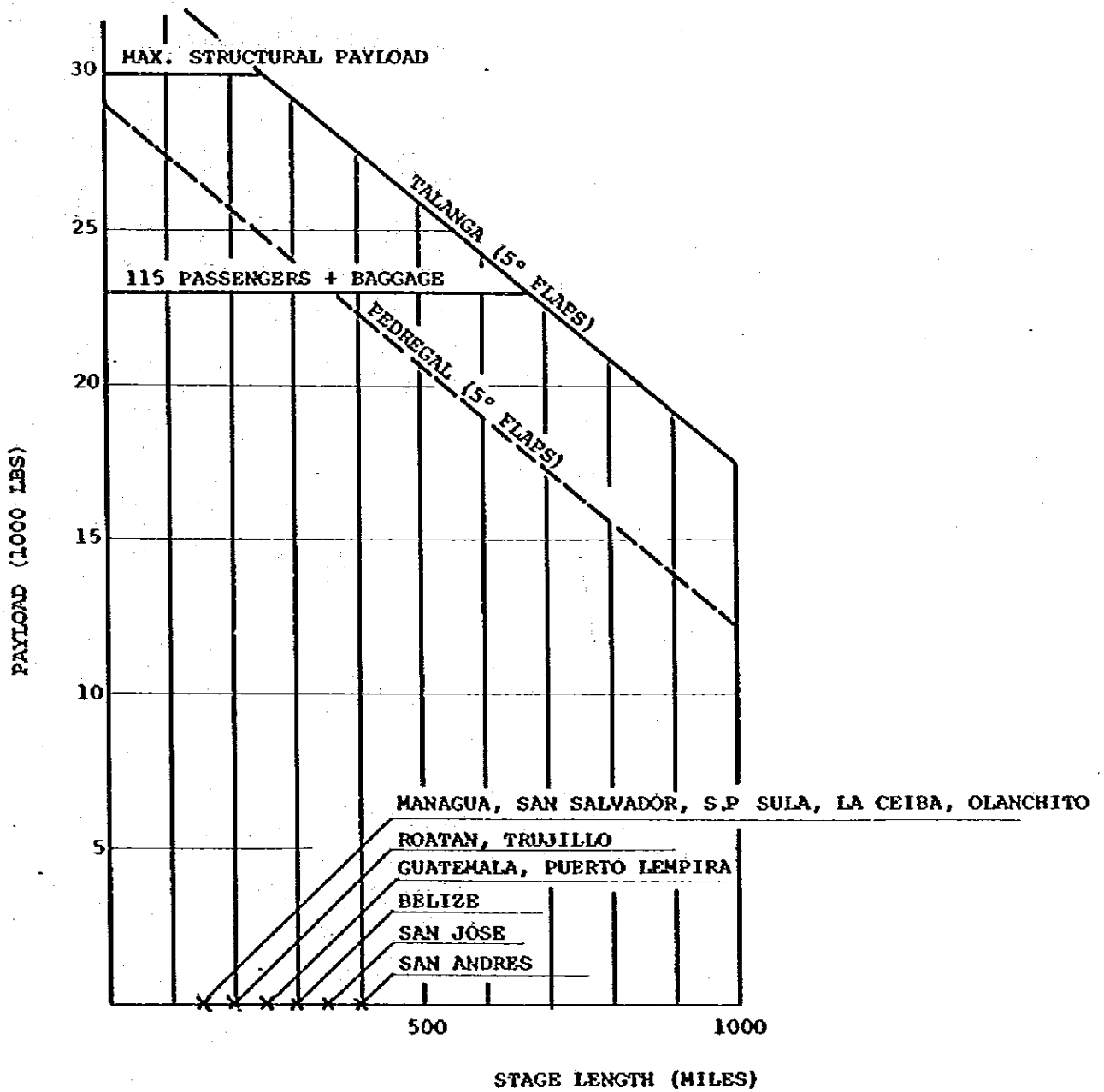


Fig. 4A-7 STAGE LENGTH - PAYLOAD RELATIONSHIP (DC-9)

APPENDIX 4B

POSSIBLE FLIGHT SCHEDULE

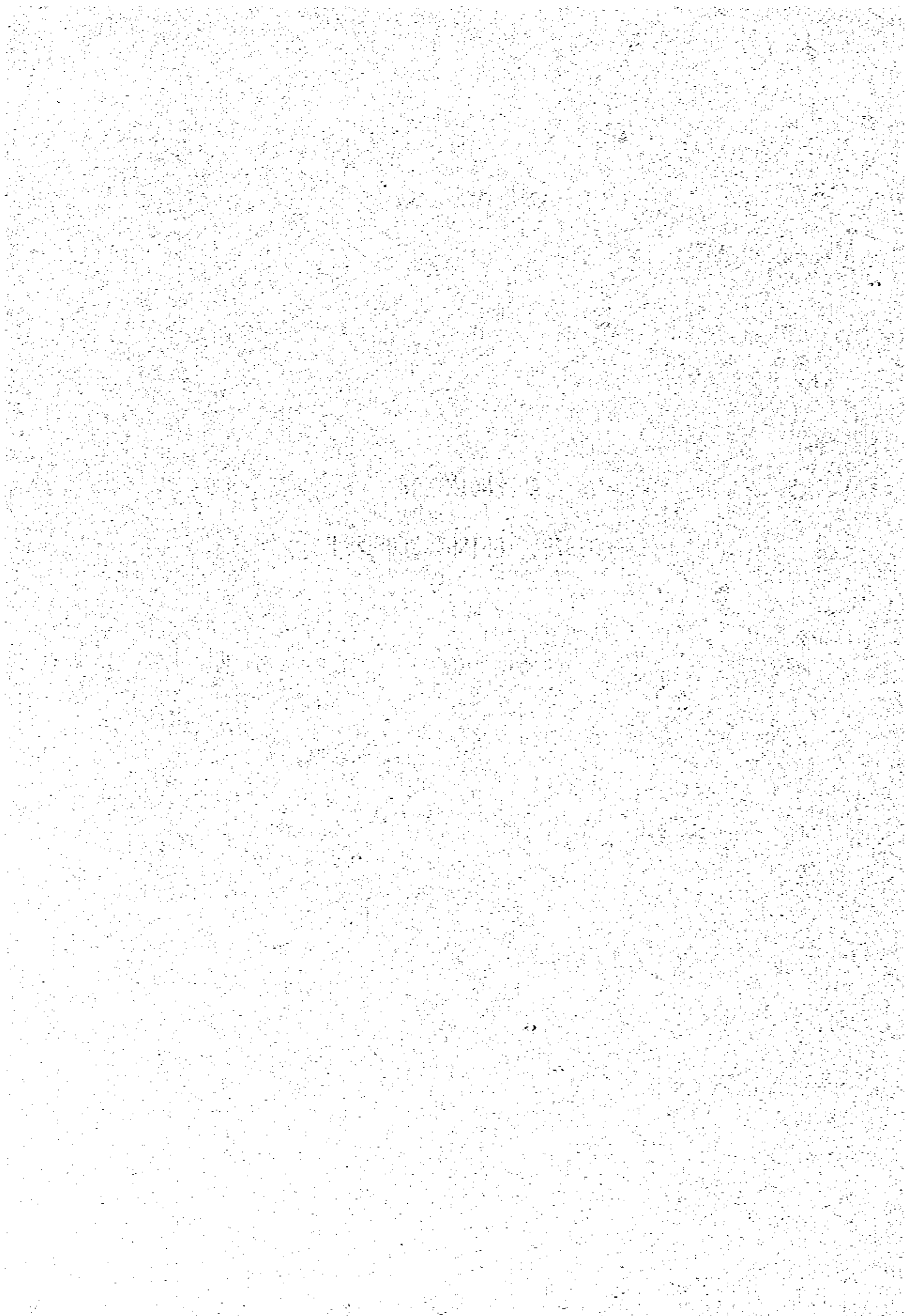


Table 4B-1 POSSIBLE FLIGHT SCHEDULE (INTERNATIONAL SERVICE) YEAR 2005

ROUTE	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
TGU - MIA	AJ MIA 00 MIA AJ 10	AJ MIA 00 MIA AJ 10	AJ MIA 00 MIA AJ 10	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00	MIA AJ 10 AJ MIA 00
MSY-TGU-PTY	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00	AJ MSY 00
IAH-TGU-PTY	PTY IAH 20 IAH PTY 30	PTY IAH 20 IAH PTY 30	PTY IAH 20 IAH PTY 30	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00	IAH AJ 30 AJ IAH 00
MEX-TGU-PTY	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10	PTY MEX 00 MEX PTY 10
GUA-TGU-MGA	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00	BJ GUA 00 GUA BJ 00
SAL-TGU-SJO	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00	BJ SAL 00 SAL BJ 00
BZE-TGU-SJO	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00	BJ BZE 00 BZE BJ 00
TGU - ADZ	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00	ADZ TGU 00 TGU ADZ 00

Notes: 1. Aircraft Categories AJ -- 200 Seater Jet
 BJ -- 120 Seater Jet
 CN -- 40 Seater Non-Jet

2. Arriving Flight
 Departing Flight
 Alternate (every other day)
 schedule to one directly thereabove

3. Schedules with asterisk occur only at Pedregal Site

APPENDIX 4C

HOURLY DISTRIBUTION OF PASSENGERS

