

PNMAR 427

37071

BRAZIL: A COUNTRY PROFILE

prepared for

Office of U. S. Foreign Disaster Assistance
Bureau for Private and Development Cooperation
Agency for International Development
Department of State
Washington, D. C. 20523

by

Evaluation Technologies, Inc.
Arlington, Virginia
under contract AID-otr-C-1553

The profile on Brazil is one in a series of profiles designed to meet the needs of the planning, analysis and relief operations of the Office of Foreign Disaster Assistance (OFDA). The shape of content has been evolving over the course of the last two years, and doubtlessly will continue to. The relatively narrow focus is intentional. To avoid redundancy, some topics one might expect to find in a "country profile" are not covered here.

If the information provided can also be useful to others in the disaster assistance community, so much the better. Every effort is made to obtain current, reliable data; unfortunately, it is not possible to issue updates as fast as changes would warrant. A cautionary note, therefore, to the reader: statistics are indicators at best, and if names and numbers matter, the bibliography will point to a current source.

We invite your comments and corrections. Address these and other queries to OFDA, AID, as given above.

March 1976

BRAZIL COUNTRY PROFILE: Table of Contents

GENERAL		HEALTH AND NUTRITION		LOGISTICS	
geographic codes	1.1.1.1	diseases	1.5.1.1	ports	1.9.1.1
country names	1.1.2.1	infant mortality	1.5.2.1	- Recife	1.9.1.2
nationalities	1.1.3.1	life expectancy	1.5.2.2	- Rio de Janeiro	1.9.1.3
languages	1.1.4.1	mortality	1.5.2.3	- Santos	1.9.1.4
ethnic groups	1.1.5.1	vital statistics	1.5.2.4	- Vitoria	1.9.1.5
religion	1.1.6.1	medical personnel - MDs	1.5.4.1	- Belem	1.9.1.6
- description	1.1.6.2	- other	1.5.4.2	- Manaus	1.9.1.7
holidays	1.1.7.1	diet	1.5.5.1	- Santana	1.9.1.8
currency exchange rate	1.1.8.1	- composition	1.5.5.2	airports	1.9.2.1
- devaluation	1.1.8.2	- MDR	1.5.5.3	railroads	1.9.3.1
host mission - embassy	1.1.9.1			roads	1.9.4.1
- staff	1.1.9.2	ECONOMICS		- network/vehicles	1.9.4.2
- consulates	1.1.9.3	GNP	1.6.1.1	railroad connections	1.9.6.1
- honorary	1.1.9.4	summary	1.6.2.1	shipping	1.9.8.1
US mission - staff	1.1.10.1	domestic financial data	1.6.2.2	- companies	1.9.8.2
- embassy	1.1.10.2	foreign trade - note	1.6.3.1	air entry requirements	1.9.9.1
- consulates	1.1.10.3	- imports	1.6.3.2	- special note	1.9.9.2
US presence	1.1.10.4	- exports	1.6.3.3	distances by air	1.9.10.1
agreements	1.1.11.1	- overview	1.6.3.4	- international	1.9.10.2
- military	1.1.11.2	trade partners - imports	1.6.3.5	distances by road	1.9.11.1
- trade	1.1.11.3	- exports	1.6.3.6		
travel - visas	1.1.12.1			COMMUNICATIONS	
- information	1.1.12.2	AGRICULTURE		radio	1.10.1.1
- health	1.1.12.3	production	1.7.1.1	television	1.10.1.2
		imports	1.7.2.1	telephone/telegraph	1.10.1.3
GOVERNMENT				CHECKLIST	1.11.1
national	1.2.1.1	PHYSICAL GEOGRAPHY		BIBLIOGRAPHY	1.12.1
regional	1.2.2.1	climate - precipitation	1.8.1.1		
key leaders	1.2.3.1	- temperature	1.8.1.2		
		land use	1.8.3.1		
DISASTER PLAN		rivers	1.8.4.1		
host plan	1.3.1.1				
US plan	1.3.2.1				
contact list	1.3.3.1				
POPULATION					
national	1.4.1.1				
major cities	1.4.3.1				

BRAZIL

AS OF: 08/01/78

PAGE: 1

1 BRAZIL

1.1 GENERAL

1.1.1 GEOGRAPHIC CD

1.1.1.1 LIST
AID STANDARD 520
FIPS BR
STATE REGION ARA

1.1.2 NAMES

1.1.2.1 LIST
LEGAL - BRAZIL
SHORT - BRAZIL
LOCAL - BRASIL

1.1.3 NATIONALITIES

1.1.3.1 IMPORTANCE
BECAUSE OF THE HIGH VALUE PLACED ON ASSIMILATION, NATIONALITIES HAVE
LITTLE ROLE IN BRAZIL.

1.1.4 LANGUAGES

1.1.4.1 DESCRIPTION
PORTUGUESE IS THE UNIVERSAL NATIONAL LANGUAGE, WITH A FEW TRIBAL
GROUPS IN THE REMOTE INTERIOR SPEAKING ONLY INDIAN LANGUAGES. ENGLISH,
FRENCH OR SPANISH ARE SECOND LANGUAGES FOR MANY EDUCATED PEOPLE.

1.1.5 ETHNIC GROUPS

1.1.5.1 DESCRIPTION
MOST BRAZILIANS ARE OF MIXED PORTUGUESE AND AMERICAN INDIAN STOCK. 7%
OF THE POPULATION IS BLACK, WITH 38% OF MIXED BLACK, PORTUGUESE AND
INDIAN DESCENT. 700,000 JAPANESE, 2 MILLION LEBANESE ARABS AND
100,000 UNASSIMILATED INDIANS COMPRISE THE MAJOR NON-EUROPEAN GROUPS.
MOST EUROPEAN IMMIGRANTS CAME FROM PORTUGAL, ITALY AND GERMANY, RAPID
ASSIMILATION MAKES PORTUGUESE THE PRIMARY CULTURE AND REGIONAL
STEREOTYPES STRONGER THAN ETHNIC ONES.

1.1.6 RELIGIONS

1.1.6.1 LIST

BRAZIL

AS OF: 08/01/78

94% ROMAN CATHOLIC. INCLUDING FOLK CATHOLICISM
3% PROTESTANT, MOSTLY PENTECOSTAL
3% OTHER, PRIMARILY SPIRITUALIST, AFRO BRAZILIAN CULTS.

PAGE: 2

1.1.6.2 DESCRIPTION
MANY BRAZILIANS ARE ONLY NOMINAL CATHOLICS. FOLK CATHOLICISM, WHICH
CENTERS ON THE WORSHIP OF THE SAINTS TO OBTAIN PERSONAL FAVORS, IS
MORE OFTEN OBSERVED. CHURCH AND STATE ARE SEPARATE. THE CHURCH HAS
IMPORTANT SOCIAL ROLES IN HEALTH CARE, PROTECTION OF TRIBAL INDIANS
AND EDUCATION.

1.1.7 DATES

1.1.7.1 LIST

PUBLIC HOLIDAYS

JANUARY 1	-	NEW YEARS
APRIL 21	-	MARTYRDOM OF TIRADENTES
MAY 1	-	LABOR DAY
SEPTEMBER 7		INDEPENDENCE DAY
NOVEMBER 2		ALL SOULS DAY
NOVEMBER 15		PROCLAMATION OF THE REPUBLIC DAY
DECEMBER 25		CHRISTMAS

MUNICIPALITIES MAY DECLARE 4 ADDITIONAL HOLIDAYS, ONE OF WHICH MUST
BE GOOD FRIDAY

WORK SLOWS DURING CARNIVAL AND HOLY WEEK

1.1.8 CURRENCY

1.1.8.1

DESCRIPTION
100 CENTAVOS = 1 CRUZEIRO
EXCHANGE RATE (MAY 31, 1978)
17.600 CRUZEIROS = US \$1.00

1.1.8.2

DEVALUATION
PACE OF MINI-DEVALUATION SEEMS TO HAVE ACCELERATED. INFLATION RATE IS
28-30% FOR 1975

1.1.9 MISSIONS,HOST

1.1.9.1 MISSION INFO
ADDRESS

JURISDICTION

BRAZIL

AS OF: 08/01/78
WASHINGTON DC

PAGE: 3

BRAZILIAN CHANCERY
3006 MASSACHUSETTS AVE., NW
WASHINGTON, DC. 20008
TEL. 202-797-0100

FOR DISTRICT OF COLUMBIA,
STATES OF NORTH CAROLINA,
SOUTH CAROLINA, VIRGINIA,
AND WEST VIRGINIA

PACIFIC ISLANDS
HONG KONG

CAROLINE, MARSHALL, AND
MARIANAS ISLANDS

1.1.9.2

MISSION STAFF

AMBASSADOR.....JOAO BAPTISTA PINHEIRO
MINISTER COUNSELOR....ALVARO DA COSTA-FRANCO
COUNSELOR.....RENE HAGUENAUER
COUNSELOR.....ANNUNCIATA SALGADO DOS SANTOS
FIRST SECRETARY.....CARLOS F. A. SALDANHA
MILITARY ATTACHE.....BRIG. GEN. CELSO DOS SANTOS MEYER
NAVAL ATTACHE.....REAR ADM. MARIO JORGE DA FONSECA HERMES
AIR ATTACHE.....BRIG. GEN. LUIS FELIPPE CARNEIRO DE LACERDA

1.1.9.3

OTHER POSTS
ADDRESSES

JURISDICTION

CHICAGO, ILLINOIS

BRAZILIAN CONSULATE
919 NORTH MICHIGAN AVENUE
CHICAGO, ILLINOIS 60611
TEL. 312-337-3553

FOR STATES OF NORTH AND
SOUTH DAKOTA, ILLINOIS
INDIANA, IOWA, MICHIGAN,
MINNESOTA, NEBRASKA, AND
WISCONSIN

HOUSTON, TEXAS

BRAZILIAN CONSULATE GENERAL
3400 MONTROSE BLVD.
HOUSTON, TEXAS 77006
TEL. 713-526-3941

FOR STATES OF COLORADO,
KANSAS, NEW MEXICO,
OKLAHOMA AND TEXAS

LOS ANGELES, CALIFORNIA

BRAZILIAN CONSULATE
6253 HOLLYWOOD BLVD.
LOS ANGELES, CALIFORNIA 90028
TEL. 213-937-4044

FOR STATES OF CALIFORNIA,
ARIZONA, ALASKA, HAWAII,
IDAHO, MONTANA, NEVADA,
OREGON, UTAH, WASHINGTON,
AND WYOMING

MIAMI, FLORIDA

BRAZILIAN CONSULATE
100 BISCAYNE BLVD.
MIAMI, FLORIDA 33132

FOR STATES OF GEORGIA,
AND FLORIDA AND ALL US
CARRIBEAN TERRITORIES

BRAZIL

AS OF: 08/01/78
TEL. 305-377-1734

PAGE: 4

NEW ORLEANS, LOUISIANA
BRAZILIAN CONSULATE GENERAL
INTERNATIONAL TRADE MART
2 CANAL STREET
NEW ORLEANS, LOUISIANA 70130
TEL. 504-525-9874

FOR STATES OF ALABAMA,
ARKANSAS, LOUISIANA,
MISSISSIPPI, MISSOURI AND
TENNESSEE

NEW YORK, NEW YORK
BRAZILIAN CONSULATE GENERAL
630 FIFTH AVENUE
ROCKEFELLER CENTER
NEW YORK, NEW YORK 10020
TEL. 212-757-3080

FOR STATES OF CONNECTICUT
NEW JERSEY, NEW YORK,
VERMONT, DELAWARE, KENTUCKY,
MAINE, MASSACHUSETTS,
NEW HAMPSHIRE, OHIO,
PENNSYLVANIA, AND R. ISLAND

1.1.9.4 HONORARY
BRAZILIAN HONORARY CONSULATES IN

NEW BEDFORD, MASSACHUSETTS
HAWTHORNE STREET
TEL. 617-997-1256

NORFOLK, VIRGINIA
741 WAINWRIGHT BUILDING
TEL. 703-622-4563

SAN JUAN, PUERTO RICO
P. O. BOX 3072

SAVANNAH, GEORGIA
15 EAST GORDON STREET
TEL. 912-233-7797

SEATTLE, WASHINGTON
UNITED PACIFIC BUILDING
1000 SECOND AVENUE
TEL. 206-682-0227

1.1.10 MISSIONS, US

1.1.10.1 MISSION STAFF

AMB	JOHN H. CRIMMINS
DCM	RICHARD E. JOHNSON
ECO/COM	C. AUS W. RUSER
FIN	CARL LOHMANN
COM	JACK M. SMITH (RESIDENT IN SAO PAULO)

BRAZIL

AS OF: 08/01/78

POL A_FONSO ARENALES
ADM SAMUEL E. LUPO
RSO LOUIS M. MARRANO
SCI ROBERT H. GOECKERMANN
AGR LEON G. MEARS
AID FRANCIS R. CAMPDELL
PAO (VACANCY)

PAGE: 5

1.1.10.2 EMBASSY LOCAL
ADDRESS

BRASILIA

JURISDICTION

AMERICAN EMBASSY
LOTE NO. 3, AVENIDA DAS NOCOES,
BRASILIA, D. F., BRAZIL

FEDERAL DISTRICT
STATE OF GOIAS
MATO GROSSO(NORTHERN HALF)

TEL: 23-0270
AMBASSADOR'S RESIDENCE: 42-7005

1.1.10.3 OTHER POSTS
ADDRESSES

JURISDICTION

RIO DE JANEIRO
AMERICAN CONSULATE GENERAL
AVENIDA PRESIDENTE WILSON, 147
RIO DE JANEIRO, GUANABARA, BRAZIL
TEL. 252-8055

ESPIRITU SANTO
GUANABARA
MINAS GERAIS
RIO DE JANEIRO

JOHN DEXTER, ESQUIRE AMERICAN CONSUL GENERAL

BELEM
AMERICAN CONSULATE
AVENIDA OSWALDO CRUZ, 165
CAIXA POSTA.. 268
BELEM, PA, BRAZIL
TEL. 23-0800

ACRE, AMAZONAS, PARA
MARANHAO

TERRITORIES

AMAPA, RONDONIA,
RORAIMA

CHARLES JACOBINI, PRINCIPAL OFFICER

RECIFE
AMERICAN CONSULATE
RUA GONCALVES MAIA, 163--BOA VISTA
RECIFE, PERNAMBUCO, BRAZIL
TEL. 21-1214

ALAGOAS, CEARA, PARAIBA,
PIAUI, RIO GRANDE DO NORTE,
PERNAMBUCO, FERNANDO DO
NORONHA

RICHARD BROWN, PRINCIPAL OFFICER

BRAZIL

AS OF: 08/01/78

PAGE: 6

SAO PAULO
AMERICAN CONSULATE GENERAL
RUA PADRE JOAO MANOEL, 20
SAO PAULO, S. P., BRAZIL
TEL. 289-3155

MATO GROSSO(NORTHERN HALF)
PARANA, SAO PAULO

FREDERIC CHAPIN, ESQUIRE AMERICAN CONSUL GENERAL

PORTO ALEGRE
AMERICAN CONSULATE
RUA URUGUAI, 155, 11TH FLOOR
PORTO ALEGRE, R. S., BRAZIL
TEL. 24-0655

RIO GRANDE DO SUL
SANTA CATARINA

ALFRED BARR, PRINCIPAL OFFICER

SALVADOR
AMERICAN CONSULATE
EDIFICIO FUNDACAO POLITECHNICA, BLOCO A BAHIA
AV. SETI DE SETEMBRO 73/79 A 4TH, CAIXA POSTAL 84 SERGIPE
SALVADOR, BAHIA
TEL. 3-4908

ALEXANDER S. EGHT, PRINCIPAL OFFICER

1.1.10.4 US

	CITIZEN PRESENCE
	1975

OFFICIAL TOTAL	39,332
STATE	324
AID	36
USIA	37
MILITARY ATTACHES.	130
ADVISORY GROUP AND OTHER DOD ELEMENTS IN DIP MISSIONS	
MIL FORCE INCL CIVS	
PEACE CORPS	0
OTHER(INCL INDIRCT CONTRACT WORKERS)	2,730
DEPENDENTS	599
EST. PRIVATE TOTAL	32,129
RESIDENT BUSINESSMEN	3,272
STUDENTS	1,178
MISSIONARIES, CLERGY	3,975
DEPENDENTS OF ABOVE	17,795
OTHERS	3,490

BRAZIL

AS OF: 08/01/78

PAGE: 7

1.1.11 ALLIANCES

1.1.11.1 POLITICAL

ATOMIC ENERGY COOPERATION FOR CIVIL USE 1965, AMENDED 1972 TO INCLUDE POWER-PRODUCING REACTORS.
ARBITRATION CONVENTION, 1909; ENTERED INTO FORCE 1911.
PEACE CORPS AGREEMENT, 1973.
AGREEMENT RELATING TO COOPERATIVE RESEARCH IN REMOTE SENSING FOR EARTH RESOURCES SURVEYS, 1968; EXTENDED TO APRIL 1, 1976 BY EXCHANGE OF NOTES MARCH 27, 1973. BRAZIL HAS PROPOSED AMENDMENT (SOON)
AGREEMENT RELATING TO JOINT PARTICIPATION IN INTERCONTINENTAL TESTING IN CONNECTION WITH EXPERIMENTAL COMMUNICATIONS SATELLITES, 1961.
AIR TRANSPORT SERVICES AGREEMENT, 1946; AMENDED 1968.
EDUCATIONAL EXCHANGE AGREEMENT, 1966
EXTRADITION TREATY, 1961. PROTOCOL, 1962: ENTERED INTO FORCE 1964.
AGREEMENT FOR MAPPING PROGRAM IN BRAZIL; 1952; AMENDED 1965.
TREATY OF PEACE AND FRIENDSHIP, 1829.
CONSULTATIVE ACCORD, 1976.
TREATY OF TATELOCO BANNING NUCLEAR WEAPONS IN LATIN AMERICA
1967: THE US IS A TREATY PARTY TO ADDITIONAL PROTOCOL II TO THE TREATY FOR THE PROHIBITION OF NUCLEAR WEAPONS IN LATIN AMERICA (TREATY OF TATELOCO) BRAZIL RATIFIED THAT TREATY BUT HAS NOT MADE THE WAIVER REQUIRED FOR ITS ENTRY INTO FORCE WITH RESPECT TO HER.
1968 INTERNATIONAL AGREEMENT: AMENDED 1973, 1976
TREATY BANNING NUCLEAR WEAPONS TESTS, SIGNED 1963

OTHER MULTILATERAL TREATIES:

VIENNA CONVENTION ON CONSULAR RELATIONS, 1963
AGREEMENT FOR THE SUPPRESSION OF UNLAWFUL SEIZURE OF AIRCRAFT (HIJACKING, 1970)
SINGLE CONVENTION ON NARCOTIC DRUGS, 1961
CONVENTION ON NATURE PROTECTION AND WILDLIFE PRESERVATION IN THE WESTERN HEMISPHERE, 1940
TREATY ON PRINCIPLES OF GOVERNING ACTIVITIES OF STATES IN THE EXPLORATION AND USE OF OUTER SPACE, INCLUDING THE MOON AND OTHER CELESTIAL BODIES, 1967
CONVENTION ON OFFENSES AND CERTAIN OTHER ACTS COMMITTED ON BOARD AIRCRAFT (TOKYO, 1963).
CONVENTION FOR THE SUPPRESSION OF UNLAWFUL ACTS AGAINST THE SAFETY OF CIVIL AVIATION (SABOTAGE, MONTREAL, 1971).

WITH OTHER COUNTRIES:

NONE OF ANY APPARENT SIGNIFICANCE IN BRAZIL-US RELATIONS. BRAZIL HAS COMMERCIAL ARRANGEMENTS WITH MANY COUNTRIES; CULTURAL, SCIENTIFIC AND TECHNICAL ARRANGEMENTS WITH MANY COUNTRIES; AIR

BRAZIL

AS OF: 08/01/78

TRANSPORT ARRANGEMENTS WITH MORE THAN 15 COUNTRIES: MIGRATION
ARRANGEMENTS WITH JAPAN, THE NETHERLANDS AND SPAIN. SHE HAS
SPECIAL CULTURAL AND LEGAL TIES WITH PORTUGAL.

PAGE: 8

MULTILATERAL TREATIES AND MEMBERSHIP IN INTERNATIONAL ORGANIZATIONS:

BRAZIL IS A MEMBER OF:

ORGANIZATION OF AMERICAN STATES (OAS)
INTER-AMERICAN INSTITUTE OF AGRICULTURAL SCIENCES
INTERNATIONAL RICE COMMISSION
INTERNATIONAL INSTITUTE FOR COTTON
INTER-AMERICAN INDIAN INSTITUTE
INTER-AMERICAN DEVELOPMENT BANK
UNITED NATIONS AND EACH OF ITS RELATED AGENCIES
INTERNATIONAL TELECOMMUNICATIONS SATELLITE CONSORTIUM(INTELSAT)

EDUCATIONAL, CULTURAL AND SCIENTIFIC RELATIONS, EDUCATIONAL AND
CULTURAL EXCHANGE PRINCIPAL AGREEMENTS WITH THE US:
FOR BINATIONAL COMMISSION FOR EDUCATIONAL EXCHANGE, 1957; AMENDED '66
PRINCIPAL AGREEMENT WITH OTHER COUNTRIES:
GENERAL CULTURAL AGREEMENT WITH CZECHOSLOVAKIA AND POLAND

SCIENTIFIC AND TECHNOLOGICAL AFFAIRS

SIGNIFICANT AGREEMENTS AND PROGRAMS WITH US:
AGREEMENT ON A PROGRAM OF SCIENTIFIC COOPERATION, 1971
AGREEMENT FOR COOPERATION CONCERNING CIVIL USES OF ATOMIC ENERGY,
(RESEARCH AND POWER), 1972.

1.1.11.2 MILITARY

MILITARY ASSISTANCE AGREEMENT, 1952
JOINT US-BRAZIL MILITARY AND DEFENSE COMMISSION, 1948, 1955
AGREEMENTS FOR TRANSFER OF CERTAIN NAVAL UNITS TO BRAZIL, 1951, 1959,
1960, 1967
MILITARY MISSION AGREEMENTS: NAVY, 1942, AMENDED 1954

1.1.11.3 TRADE

AGREEMENT CONCERNING SHRIMP, 1972
AGRICULTURAL COMMODITIES AGREEMENT, 1946, AMENDED 1968
AGREEMENT RELATING TO TRADE IN COTTON TEXTILES, 1970
UNIVERSAL COPYRIGHT CONVENTION, 1952
GENERAL AGREEMENT ON TARIFFS AND TRADE.(GATT), 1947
INVESTMENT GUARANTEES, 1960'S

1.1.12 TRAVEL

1.1.12.1 VISAS

PASSPORT REQUIRED
VISA NOT REQUIRED UP TO 90 DAYS

BRAZIL

AS OF: 08/01/78

PAGE: 9

1.1.12.2 CONSULATE

ADDRESS: 3006 MASSACHUSETTS AVE. NW
WASHINGTON, DC 20008

TELEPHONE: 797-0100

1.1.12.3 HEALTH

SMALLPOX VACCINATION REQUIRED. YELLOW-FEVER VACCINATION RECOMMENDED.

1.1.13 TIME DIFFER

1.2 GOVERNMENT

1.2.1 GEOGRAPHICAL

1.2.1.1 DESCRIPTION

BRAZIL IS A CONSTITUTIONAL REPUBLIC WITH EXECUTIVE POWER VESTED IN THE PRESIDENT, LEGISLATIVE IN A 66-MEMBER FEDERAL SENATE (3 REPRESENTATIVES PER STATE) AND A CHAMBER OF DEPUTIES (310 ELECTED AT LARGE, PROPORTIONAL TO POPULATION) AND JUDICIAL POWERS IN A SUPREME COURT. GOVERNMENT IS HIGHLY CENTRALIZED WITH BROAD POWERS GIVEN TO THE PRESIDENT. STATE GOVERNMENT PARALLELS THE FEDERAL. TERRITORIAL DIVISIONS OF THE STATES ARE MUNICIPALITIES.

1.2.2 HIERARCHICAL

1.2.2.1 DESCRIPTION

BRAZIL IS DIVIDED INTO 22 STATES AND FOUR TERRITORIES (REMOTE FRONTIER AREAS ADMINISTERED BY THE FEDERAL GOVERNMENT) AND FEDERAL DISTRICTS. MUNICIPALITIES ARE THE ONLY SUBDIVISIONS OF THE STATES. THEY ARE HEADED BY MAYORS, SOME POPULARLY ELECTED AND SOME APPOINTED BY STATE GOVERNORS.

1.2.3 KEY LEADERS

1.2.3.1 LIST

PRESIDENT
VICE PRESIDENT
MINISTER OF AGRICULTURE
MINISTER OF AIR
MINISTER OF ARMY
MINISTER OF COMMUNICATIONS
MINISTER OF EDUCATION
MINISTER OF FINANCE

GEISEL, ERNESTO
ADALBERTO PEREIRA DOS SANTOS
PAULINELLI, ALYSSON
ARARIPE MACEDO, JOELMIR CAMPOS DE
BETHLEM, FERNANDO BELFORT
OLIVEIRA, EUCLIDES QUANDT DE
BRANDAO, EURO
SIMONSEN, MARIO HENRIQUE

BRAZIL

AS OF: 08/01/78

PAGE: 10

MINISTER OF FOREIGN AFFAIRS

AZEREDO DA SILVEIRA.

MINISTER OF HEALTH

ANTONIO FRANCISCO

MINISTER OF INDUSTRY AND COMMERCE

ALMEIDA MACHADO, PAULO DE

MINISTER OF INTERIOR

CALMON DE SA, ANGELO

MINISTER OF JUSTICE

RANGEL REIS, MAURICIO

MINISTER OF LABOR

FALCAO, ARMANDO RIBEIRO

MINISTER OF MINES AND ENERGY

PRIETO, ARNALDO DA COSTA

MINISTER OF NAVY

UEKI, SHIGEAKI

MINISTER OF TRANSPORTATION

HENNING, GERALDO DE AZEVEDO

AND PUBLIC WORKS

DYRCEU ARAUJO NOGUEIRA

MINISTER OF WELFARE

NASCIMENTO E SILVA,

AND SOCIAL SECURITY

LUIZ GONZAGA DO

MINISTER-CHIEF OF THE PLANNING

SECRETARIAT OF THE PRESIDENCY

REIS VELLOSO, JOAO PAULO DOS

CHIEF, CIVILIAN HOUSEHOLD

OF THE PRESIDENCY

GOLBERY DO COUTO E SILVA

CHIEF, MILITARY HOUSEHOLD

OF THE PRESIDENCY

MORAIS REGO REIS, GUSTAVO

CHIEF, NATL. INTELLIGENCE SERVICE

MEDEIROS, OTAVIO AQUAR DE

1.3 DISASTER PLAN

1.3.1 RELIEF PLAN

1.3.1.1 DESCRIPTION

NATIONAL DISASTER COORDINATING COMMITTEE (GEACAP) UNDER JURISDICTION OF MINISTRY OF INTERIOR ADVISES AND COORDINATES ALL ACTIVITIES RELATED TO PREVENTION OF DISASTER AND ASSISTANCE OF DISASTER VICTIMS.

RESPONSIBILITIES:

(1) PROPOSES FUNDAMENTAL GUIDELINES FOR GOVERNMENT TO MINISTER OF INTERIOR.

(2) SUGGESTS NORMS TO ENSURE COORDINATION OF DISASTER MEASURES.

(3) LINKS ACTIVITIES OF FEDERAL, STATE, MUNICIPAL, PRIVATE ENTITIES WITH THOSE OF MINISTRY OF INTERIOR.

(4) PROPOSES FUNDING FOR SPECIFIC RELIEF ASSISTANCE PROGRAMS AND/OR GEACAP ACTIVITIES.

ORGANIZATION:

GEACAP IS SUBORDINATE TO SECRETARY GENERAL OF MINISTRY OF INTERIOR AND INCLUDES:

TWO REPRESENTATIVES OF MINISTRY OF INTERIOR

ONE REPRESENTATIVE EACH FROM MINISTRIES OF JUSTICE, NAVY, ARMY, FINANCE, TRANSPORTATION, AGRICULTURE, AERONAUTICS, HEALTH, PLANNING AND GENERAL COORDINATION, COMMUNICATIONS.

ONE REPRESENTATIVE EACH FROM SUPERINTENDENCIA NACIONAL DO ABASTECIMENTO (SUNAB), DEPARTAMENTO NACIONAL DE METEOROLOGIA, CRUZ VERMELHA BRASILEIRA, CONSELHO DE ENTIDADES NAO-GOVERNAMENTAIS (CENG), CARITA BRASILEIRA, SOCIEDADE CIVIL DE ACO SOCIAL (DIACONIA).

BRAZIL

AS OF: 08/01/78

PAGE: 11

LEGIAO BRASILEIRA. FEDERACAO DE ORGAOS PARA ASSISTENCHA SOCIAL AND EDUCACIONAL (FASE). LABRE. CEDEC. REPRESENTATIVES AND ALTERNATES ARE NAMED BY EACH ENTITY.

GEACAP IS CHAIRED BY A COORDINATOR, ASSISTED BY AUXILIARY COORDINATOR. BOTH NAMED BY MINISTER OF INTERIOR.

MINISTRY OF INTERIOR MAINTAINS REGIONAL COORDINATORS WITHIN THE SUPERINTENDENCIES (SUDENC, SUDAM, ETC.) AS LIAISONS AT STATE AND MUNICIPAL LEVEL TO PROVIDE PROTECTION AND ASSISTANCE TO STRICKEN POPULATION.

FEDERA ASSISTANCE AVAILABLE ONLY WHEN STATE AND MUNICIPAL EXHAUSTED. EACH STATE MUST ESTABLISH DISASTER RELIEF COMMISSIONS - 14 STATES AND 2 TERRITORIES HAVE PLANS.

CEDEC (COORDENACAO DE DEFESA CIVIL DO ESTADO DA GUANABARA) IS MODEL PLAN, HAS 24 HOUR COMMUNICATIONS SYSTEM THROUGHOUT ITS 23 ADMINISTRATIVE REGIONS.

1.3.2 US RELIEF ORG

1.3.2.1 LIST

COMPOSITION AND RESPONSIBILITIES OF MISSION DISASTER RELIEF COMMITTEE DISASTER RELIEF COMMITTEE:

- (1) DISASTER RELIEF OFFICER (DRO): DEPUTY CHIEF OF MISSION AMBASSADOR'S REPRESENTATIVE ON DRC. COORDINATES DISASTER MESSAGES AND REQUESTS FOR USG ASSISTANCE WITHIN MISSION. WITH CONSULATES. APPROVES OUTGOING MESSAGES NOT NEEDING AMBASSADOR'S APPROVAL.
- (2) DISASTER RELIEF COORDINATOR: POLITICAL COUNSELOR ASSISTS DRO. LIAISON WITH MINISTRY OF EXTERNAL RELATIONS. OTHERS AS NEEDED.
- (3) EMBASSY REPRESENTATIVE: COUNSELOR FOR ADMINISTRATION COORDINATES EMBASSY AND CONSTITUENT POST RESOURCES. EFFORTS INCLUDING AMERICAN CITIZEN CASUALTIES.
- (4) USAID REPRESENTATIVE: DEPUTY DIRECTOR.USAID GUIDES, COORDINATES USAID DISASTER RELIEF ACTIVITIES. LIAISON WITH UN, OAS, ETC.
- (5) USAID TECHNICAL ADVISOR: CHIEF OFFICER OF HNF D INFORMS DRO OF DEVELOPMENT AND PROGRESS OF IDSASTER CABLES INFORMATION TO WASHINGTON. LIAISON WITH GEACAP AND VOLAGS. VISITS DISASTER SITES WHEN NECESSARY.
- (5) US MILITARY REPRESENTATIVE: DEFENSE ATTACHE LIAISON WITH BRAZILIAN MILITARY RELIEF ORGANIZATION.
- (7) JBUSMC REPRESENTATIVE: CHIEF OF ARMY SECTION LIAISON WITH USINCSO. COORDINATES WITH ELEMENTS OF JBUSMC.
- (8) PEACE CORPS REPRESENTATIVE: PEACE CORPS COUNTRY DIRECTOR
- (9) PRINCIPAL POSTS: PRINCIPAL OFFICER IN EACH PRINCIPAL POST INFORMS EMBASSY AS DISASTER SITUATION DEVELOPS. SUPPORT DISASTER COMMAND CENTER, IF REQUIRED.

BRAZIL

AS OF: 08/01/78
(10) USIS REPRESENTATIVE: PRESS ATTACHE
LIAISON WITH MEDIA AND USIS BRANCH OFFICES.

PAGE: 12

1.3.3 CONTACT LIST

1.3.3.1 LIST

(BRAZIL DISASTER RELIEF CONTACT LIST)

G E A C A P

- - - - -

GRUPO ESPECIAL PARA ASSUNTOS DE CALANIDADES PUBLICAS
ADDRESS : AVENIDA PRESIDENTE WILSON 164. 119 ANDAR
TELEPHONES : 242-1943 AND 242-2155
GENERAL COORDINATOR: GEN. LUIZ MENDES DA SILVA
ASSISTANT COORDINATOR: COL. HECIO MAGALHAES TIBERY
ADVISORS : DRA. PALMERINDA VIDAL DONATO
DR. IBRAIM BEDANI
DR. PEDRO CAVALIIERI SAMPAIO
SR. FERNANDO HOLANDA CUNHA

SECRETARY : SRA. JULIETA THABET

REPRESENTATIVES TO THE GEACAP

AIRFORCE (MINISTRY): COL. HENRIQUE ALBERTO PECANHA THOMAZ
CHIEF OF COMGAR
PRACE MARECHAL ANCORA
RIO DE JANEIRO, GUANABARA

ARMY (MINISTRY): VACANT

NAVY (MINISTRY): CAP. DE FRAGUATA FERNANDO HOLLANDA
COMANDO DE OPERACOES NAVAIS - 6 ANDAR
MINISTERIO DA MARINHA
RIO DE JANEIRO, GUANABARA

TRANSPORTATION
MINISTRY: COL. OSCAR TORRES PARANHOS
DIRECTOR OF AGEF
RUA VISCONDE DE INHAUMA 38, 1ST ANDAR
RIO DE JANEIRO, GUANABARA

MINISTRY OF HEALTH: DR. DAGOBARTO CHAVES
DIRECTOR, DIVISAO NACIONAL DE ORGANIZACAO
SANITARIA

AV. BRASIL, 4036 - S/416
RIO DE JANEIRO, GUANABARA
MINISTRY OF JUSTICE: SR. JORGE TAVARES DE ROCHA LEAO
ASSESSOR DO MINISTRO DA JUSTICA

BRAZIL

AS OF: 08/01/78

PAGE: 13

RUA MEXICO 128, 5TH ANDAR
RIO DE JANEIRO, GUANABARA

MINISTRY OF PLANNING: DR. HENRIQUE BOSCHI
ECONOMISTA DO MINISTERIO
EDIF. MINISTERIO DA FAZENDA 10TH ANDAR, S/634
RIO DE JANEIRO, GUANABARA

TREASURY(MINISTRY): DR. CESAR DA ROCHA BATISTA
ASSESSOR DO MINISTRO DA FAZENDA
EDIF. DO MINISTERIO, 9TH ANDAR, S/910
RIO DE JANEIRO, GUANABARA

MINISTRY OF AGRICULTURE: DR. ICILIO LIMA
DIRECTOR, INSTITUTO TECNOLOGICO DE BEBIDAS
RUA MATA MACHADO, 127
RIO DE JANEIRO, GUANABARA

MINISTRY OF COMMUNICATIONS: DR. RUBENE BUSSECOS JUNIOR
SUB-CHEFE DO GABINETE DO MINISTRO
RUA MIGUAL COUTO 105, 21ST ANDAR
RIO DE JANEIRO, GUANABARA

CATHOLIC RELIEF SERVICES: (CRS) MR. THOMAS F. LYONS, DIRECTOR CRS
LADEIRA DA GLORIA 67, 1ST ANDAR
RIO DE JANEIRO, GUANABARA
TELEPHONE: 245-7392

CARITAS BRASILEIRA: DR. MARITON DE CASTRO PAGELS
SUPERINTENDENTE NACIONAL
LADEIXA DA GLORIA 67, 1ST ANDAR
RIO DE JANEIRO, GUANABARA

COUNCIL FOR NON-GOVERNMENTAL ENTITIES (CENG)

D. MAVY D'ACHE ASSUMPÇÃO HANNON
VICE-PRESIDENTE
RUA GUSTAVO SAMPAIO 194, APT 301 - LEME
RIO DE JANEIRO, GUANABARA

CHURCH WORLD SERVICE/LUTHERAN WORLD RELIEF - CWS/LWR

MR. GARY SIDNEY AMBROSE
CWB/LWR REPRESENTATIVE
AV. CHURCHILL 129, SUITE 802/4
RIO DE JANEIRO, GUANABARA

DIACONIA: CEL. PAULO MOURA
SECRETARIO EXECUTIVO
AV. CHURCHILL 129, SALAS 803/804

BRAZIL

AS OF: 08/01/78
RIO DE JANEIRO, GUANABARA

PAGE: 14

BRAZILIAN RED CROSS: SR. TOM W. SLOPER
SEC. DE ASSUNTOS DE ADMINISTRACAO
PRACA CRUZ VARMELHA
RIO DE JANEIRO, GUANABARA

SUPERINTENDENCIA NACIONAL DE ABASTECIMENTO - SUNAB/APD

CORIOLAUO LUIZ TENAN
RUA ARAUJO PORTO ALEGRE 71, S/805
RIO DE JANEIRO, GUANABARA

FEDERACAO DE ORGAOS PARA ASSISTENCIA SOCIAL E EDUCACIONAL (FASE):

SR. TERCISIO BRENDAO WERNECK
DIRECTOR DE PLANEJAMENTO
RUA MENA BARRETO 131, 3RD ANDAR - BOTAFOGO
RIO DE JANEIRO, GUANABARA

LIGA DOS AMADORES BRASILEIROS DE RADIO EMISSAO (LABRE):

D. PETRONILHA PEREIRA DAS NEVES
DIRETORA SECCIONAL DA LEBRE
AV. 13 DE MAIO, 20TH ANDAR, S/2018

COORDENACAO ESRADUAL DE DEFESA CIVIL (CEDEC):

CAPITAO WALTER LUIZ DA SILVA
ASSISTENTE DA CEDEC
PALACIO GUANABARA - LARANJEIRAS
RIO DE JANEIRO, GUANABARA

REGIONAL COORDINATORS

SUPERINTENDENCIA DO DESENVOLVIMENTO DO BORDESTE (SUDENE)

DR. MANOEL ALVES DE SOUZA
RUA SIQUEIRA CAMPOS
EDIF. BRASILIA, 3RD ANDAR
RECIFE, PERNAMBUCO

SUPERINTENDENCIA DO DESENVOLVIMENTO DA AMAZONIA (SUDAM)

DR. PEDRO LUCENA AZEVEDO DA SILVA
TRAVESSA ANTONIO BAENE, 113
BELEM, PARA

SUPERINTENDENCIA DO DESENVOLVIMENTO DA REGIAO SUL (SEDESUL)

GEN. JOAO BAPTISTA SANTIAGO WAGNER

BRAZIL

AS OF: 08/01/78
AV. VENANCIO AIRES 171. 4TH ANDAR
PORTO ALEGRE. RIO GRANDE DO SUL

PAGE: 15

SUPERINTENDENCIA DO DESENVOLVIMENTO DA REGIAO CENTRO-ODESTE (SUDECO):

DR. IVANILDO MARINHO CORDEIRO CAMPOS
CONJUNTO 19 - LOTE 11
SETOR SMPW
BRASILIA, D.F.

CIVIL DEFENSE STATE ORGANIZATIONS

SUDENE AREA

PIAUI

COMISSAO ESTADUAL DE DEFESA CIVIL (CEDC)
RUA ANTONIO DE PADUA RAMOS
SECRETARIA DO PLANEJAMENTO
TERESINA, PIAUI

CEARA

GRUPO ESPACIAL DE SOCORRO AS VITIMAS DE
CALAMIDADES
PUBLICAS (GESCAP)
DR. JOSE VALDIR PESSOA
PALACIO DO GOVERNO
FORTALEZA, CEARE

R.G. DO NORTE

COMISSAO DE DEFESA CIVIL DO RIO GRANDE DO
NORTE (CODECIRN)
CEL EDMILEON FERNANDES HOLANDA
PALACIO DO GOVERNO
NATAL, RIO GRANDE DO NORTE

PERNAMBUCO

COMISSAO DE DEFESA CIVIL DO ESTADO DE
PERNAMBUCO (CODSCPIPE)
DR. RINALDO DO REGO BARROS ROCHA
PALACIO DOS DESPACHOS
RECIFE, PERNAMBUCO

ALAGOAS

COMISSAO DE DEFESA CIVIL (CDC)
CEL. LIVIO MASSA
PALACIO FLORIANO PEIXOTO
MACEIO, ALAFOAS

SERGIPE

COMISSAO ESTADUAL DE DEFESA CIVIL (CEDC)
DR. PAULO DE ALMEIDA MACHADO
PALACIO DO GOVERNO
ARACAJU, SERGIPE

BAHIA

COORDENACAO DE RECURSOS A DEFESA CIVIL (CORDEC)

BRAZIL

AS OF:

08/01/78
DR. BERNARDO SPECTOR
PLACIO DO GOVERNO
SALVADOR, BAHIA

PAGE: 16

MARANHAO

COMISSAO DE DEFESA CIVIL DO EST. DO MARANHAO
(CODECIMA)
CEL. JOAO MAGALHAES AYRES
SECRETARIA DE SEGURANCA PUBLICA
RUA HERCULANO PRAGA
SAO LUIZ, MARANHAO

SUDAM AREA

AMAZONAS

COMISSAO ESTADUAL DE DEFESA CIVIL (CEDC)
DR. SALDES OLIVEIRA
PALACIO RIO NEGRO
MANAUS, AMAZONAS

TERRITORIO DO AMAPA

COORDENACAO TERRITORIAL DE DEFESA
CIVIL (CTDEC)
DR. JOSE LISBOA FREIRE - GOVERNADOR
PALACIO DO SETENTRIAP
MACAPA, AMAPA

ESTADO DO ACRE

COORDENACAO ESTADUAL DE DEFESA CIVIL (CEDEC)
PROF. GERALDO G. DA COSTA
PALACIO RIO BRANCO
RIO BRANCO, ACRE

SUDESUL AREA

PARANA

COORDENADORIA ESTADUAL DE DEFESA CIVIL (CEDEC)
GEN. MARIO C. PORTES
RUA BARAO DE RIO BRANCO, 182
CURITIBA, PARANA

SANTA CATARINA

COORDENADORIA ESTADUAL DE DEFESA INTERNA
CIVIL (CEDEC)
GEN. ALVARO VEIGA LIMA
RUA DOS ILHEUS, EDIFICIA APLUB.
FLORIANOPOLIS, SANTA CATARINA

R. G. SUL

COORDENADORIA ESTADUAL DE DEFESA (CEDEC)
CEL. NEY PINTO DE ALENCAR
AV. JOAO PESSOA 2050, 3RD ANDAR
PORTO ALAGRE, RIO GRANDE DO SUL

SUDECO AREA

MATO GROSSO

COMISSAO ESTADUAL DE DEFESA CIVIL

BRAZIL

AS OF:

08/01/78

PAGE: 17

DR. SALOMAO FRANCISCO AMARAL
SECRETARIA DE JUSTICA
PRACE DE REPUBLICA, 61
CUIABA, MATO GROSSO.

RONDONIA

COMISSAO TERRITORIAL DE DEFESA CIVIL
DRA LINDALVA VALERIO DO NASCIMENTO
PALACIO DO GOVERNO
PORTO VEHLO, RONDONIA

CENTRA. SOUTHEAST REGION

GUANABARA

COORDENACAO DE DEFESA CIVIL (CEDEC)
COMTE. EDSON COSTA MATTOS
PALACIO GUANABARA - LARANJEIRAS
RIO DE JANEIRO, GUANABARA

SAO PAULO

COMISSAO DE DEFESA CIVIL (CDC)
DR. PAULO NATEL - GOVERNADOR
PALACIO DOS BENDEIRANTES
SAO PAULO, S.P.

ESTADO DO RIO

DEPARTAMENTO DE DEFESA CIVIL (DDC)
SR. BIAM PIMANTEL FILHO
EDIFICIO DAS SECRETARIAS
RUA VISCONDE DE SEPETIBA
NITEROI, RIO DE JANEIRO

ESPIRITO SANTO
ESPIRITO SANTO

COMISSAO DE DEFESA CIVIL
COMISSAO DE DEFESA CIVIL
DR. JOSE LUIZ CLAUDIO CORREIA
PALACIO DO GOVERNO
VITORIA, E.S.

- 1.3.4 FUNDING
- 1.3.5 ASSESSMENT
- 1.3.6 STOCKPILES
- 1.3.7 STORAGE
- 1.3.8 EARLY WARNING
- 1.3.9 DISASTER TYPE
- 1.3.10 SEE ALSO
- 1.4 POPULATION

BRAZIL

AS OF: 08/01/78

PAGE: 18

1.4.1 NATIONAL

1.4.1.1 OVERVIEW

IN 1975, BRAZIL'S POPULATION IS ESTIMATED AT 107 MILLION WITH AN ANNUAL GROWTH RATE OF 2.8%. 39 PEOPLE PER SQUARE MILE; 59 PERCENT URBANIZATION (1972). 90 PERCENT OF THE POPULATION LIVES IN THE CENTRAL PLATEAU AND THE COASTAL PLAIN ALONG THE ATLANTIC. 30 MILLION BRAZILIANS (32% OF THE POPULATION) ARE IN THE LABOR FORCE WITH 44% IN AGRICULTURE. 80% OF THE IMMIGRANTS (24,000 YEARLY) MUST BE FARMERS OR SKILLED WORKMEN. LARGE GROUPS OF IMMIGRANTS ARE PORTUGUESE, JAPANESE, ITALIAN AND SPANISH.

1.4.2 REGIONAL

1.4.3 AREA DEMO

1.4.3.1 MAJOR CITIES

BRASILIA	800,000
SAO PAULO	7,200,000
RIO DE JANEIRO	4,900,000
BELO HORIZONTE	1,600,000
PORTO ALEGRE	1,100,000
RECIFE	1,300,000
SALVADOR	1,300,000

1.5 HLTH NUTRITN

1.5.1 DISEASES

1.5.1.1 DESCRIPTION

COMMUNICABLE DISEASES--INFLUENZA, DYSENTERY, TUBERCULOSIS. PARASITIC DISEASES--HOOKWORM, MALARIA, AND MALNUTRITION ARE SIGNIFICANT CAUSES OF DEATH. THEY ARE PRINCIPAL CAUSES OF DEATH IN SMALL CHILDREN AND CONTRIBUTING FACTORS IN MORTALITY OF ALL AGE GROUPS. VIRUS DISEASES LIKE MEASLES MAY BE FATAL TO MALNOURISHED CHILDREN AND INDIGENOUS INDIANS. AS MUCH AS HALF THE POPULATION IS ESTIMATED TO SUFFER FROM PARASITIC DISEASE, WITH THE RATE APPROACHING 100% IN SOME NORTHEASTERN AREAS. MALARIA IS DECLINING DUE TO CONTROL PROGRAMS BUT IT IS STILL ENDEMIC IN RURAL AREAS.

1.5.2 MORTALITY %

1.5.2.1 INFANT
37 PER 1,000 OF POPULATION

1.5.2.2 EXPECTANCY

BRAZIL

AS OF: 08/01/78

63 YEARS AT BIRTH
(WORLD POPULATION, 1972)

PAGE: 19

1.5.2.3

DESCRIPTION
MORTALITY RATES BY CAUSES ARE NOT REPORTED. RATE VARIES FROM LESS THAN 10 PER THOUSAND IN THE SOUTH TO NEARLY 16 PER THOUSAND IN THE NORTHEAST.

1.5.2.4

HEALTH STATUS
INFANT MORTALITY - 94 PER THOUSAND (1970)
LIFE EXPECTANCY - 63 YEARS AT BIRTH (1971)
BIRTH RATE - 37 PER 1000
DEATH RATE - 9 PER 1000

1.5.3

FACILITIES

1.5.4

PERSONNEL

1.5.4.1

DOCTORS
IN 1970 THERE WERE 46,051 PHYSICIANS.

1.5.4.2

PERSONNEL
46,051 PHYSICIANS IN 1970
26,611 DENTISTS IN 1969

8,152 GRADUATE NURSES IN 1970-NEARLY ALL ASSOCIATED WITH LARGE URBAN HOSPITALS
104,260 NURSING AUXILIARIES IN 1970

14,000 PHARMACISTS IN 1970-IMPORTANT PARAMEDICAL ADVISORS IN VILLAGES, SMALL TOWNS

1.5.5

DIET

1.5.5.1

DAILY INTAKE
THE AVERAGE DAILY INTAKE PER CAPITA IS 2,900 CALORIES. THIS VARIES WIDELY. THE NORTHEAST AVERAGE IS ONE-THIRD TO ONE-HALF BELOW THE NATIONAL AVERAGE. HIGHEST LEVELS ARE FOUND IN THE SOUTH AND THE SOUTHEAST.

1.5.5.2

COMPOSITION
35% OF CALORIES ARE FROM CEREALS. ADEQUATE PROTEIN LEVELS IN DIET ARE DUE TO DAILY CONSUMPTION OF DRIED BEANS AND THE GENERAL AVAILABILITY OF MEAT. IN THE FORM OF BEEF, OFTEN DRIED, PORK, AND MUTTON, TO ALL BUT THE POOREST. 40% OF PROTEIN INTAKE IS FROM ANIMAL SOURCES. 25%

BRAZIL

AS OF: 08/01/78

FROM MEAT. SOME MILK IS DRUNK IN THE SOUTH AND SOUTHEAST, VERY LITTLE IN THE NORTHEAST. POULTRY AND EGG PRODUCTION ARE INCREASING BUT STILL LOW--CONSUMPTION IS LIMITED TO UPPER INCOME GROUPS. FISH IS IMPORTANT ONLY IN COASTAL AND RIVERINE AREAS.

MANIOC IS THE BASIC FOOD IN THE NORTHEAST AND IS EATEN THROUGHOUT THE COUNTRY. WHEAT IN THE FORM OF BREAD OR PASTA IS EATEN DAILY BY ALL PEOPLE. RICE IS SIMILARLY USED, BUT MORE OFTEN BY HIGHER INCOME FAMILIES. CORNMEAL IS A STAPLE OF THE POOR. SUGAR FURNISHES 12% OF THE CALORIES IN THE AVERAGE DIET, WITH CONSUMPTION HIGHEST IN THE NORTHEAST. HEAVILY SUGARED COFFEE IS THE NATIONAL BEVERAGE AND IS DRUNK BY ALL AGE GROUPS. SWEET CARBONATED DRINKS ARE POPULAR AND HERVA MATE (PARAGUYAN TEA) IS USED IN THE SCUTH.

FRUITS AND GREEN VEGETABLES ARE INFREQUENTLY EATEN, EXCEPT IN THE SOUTH. BANANAS ARE THE MOST POPULAR FRUITS, WHILE TOMATOES, ONIONS, AND COLLARDS ARE FAVORED VEGETABLES. THE AVERAGE BRAZILIAN DIET IS INADEQUATE IN THIS AREA.

1.5.5.3 REQUIREMENT
THE AVERAGE PER CAPITA ENERGY REQUIREMENT IS 2.390 CALORIES.

1.5.6 UTENSILS

1.6 ECONOMIC

1.6.1 GNP

1.6.1.1 GNP 1950-74

GROSS NATIONAL PRODUCT IN 1973 PRICES

	1950	1960	1970	1971	1972	1973	1974P	GROWTH%
(MILLION US DOLLARS)								
TOTAL GNP	16,140	31,150	55,810	62,170	69,010	77,220	85,000	11.1
(US DOLLARS)								
TOTAL GNP PER CAPITA	309	434	590	638	689	750	803	8.0

P PRELIMINARY

NOTE: SHOWS PERCENTAGE OF GROWTH BETWEEN 1970 AND 1974.

1.6.2 BUDGET

1.6.2.1 OVERVIEW

BRAZIL

AS OF: 08/01/78

PAGE: 21

BRAZIL HAS A LARGE, RELATIVELY SOPHISTICATED INDUSTRIAL SECTOR; VERY FEW GOODS HAVE TO BE IMPORTED. RAPID GROWTH IN MANUFACTURING HAS CAUSED DEVELOPMENT IN THE FIELDS OF CONSTRUCTION AND POWER. (BRAZIL'S HYDROELECTRIC POTENTIAL IS ONE OF THE LARGEST IN THE WORLD.) 60% OF INDUSTRY IS CONCENTRATED IN SAO PAULO STATE. INDUSTRY ACCOUNTS FOR ONE THIRD OF THE GNP.

BRAZIL IS SELF-SUFFICIENT AGRICULTURALLY, EXCEPT FOR A FEW TEMPERATE ZONE COMMODITIES SUCH AS WHEAT. ALTHOUGH BRAZIL IS THE FOURTH LARGEST BEEF PRODUCER IN THE WORLD, IT IS TAKING SPECIAL STEPS TO PRODUCE MORE BEEF. AMONG THE MOST IMPORTANT AGRICULTURAL PRODUCTS ARE MILK, COTTON, RICE, SUGAR, SOYBEAN, CACAO, AND CITRUS PRODUCTS.

FORESTS COVER AN ESTIMATED 40 TO 60 PERCENT OF THE NATION(1973). MORE ARE LOCATED IN THE AMAZON BASIN AND HAD NOT BEEN EXPLOITED UNTIL 1972. THE FORESTS, ALL TROPICAL HARDWOODS IN THE NORTH, AND SOFT WOODS IN THE SOUTH, PROVIDE PROSPECTS OF A LUCRATIVE FUTURE FOR THIS INDUSTRY.

1.6.2.2 DOMESTIC TRND

DOMESTIC FINANCIAL DATA

ITEM	UNIT	1960	1970	1972	1973	1974	1975
CONSUMER PRICES							
INDEX AVG (SAO PAULO)1970=100	2	100	140	158	201	239*	
%CHANGE IN 12 MONTHS %			18	14	14	34.1	25.8**
MONEY SUPPLY%CHG(12MOS)%		38.2	26.7	38.9	48.0	34.8	26.7@
CENTRAL GOVERNMENT FINANCES IN BILLIONS OF CRUZEIROSS (EST)							
TOTAL REVENUES	BC		19.19	37.74	52.86	76.81	
DOMESTIC	BC		19.19	37.74	52.86	76.81	
OF WHICH:TAXES	BC		(17.86)	(37.15)	(49.53)	(73.88)	
FOREIGN GRANTS	BC						
TOTAL EXPENDITURES	BC		19.93	38.25	52.57	72.93	
CURRENT(EST)	BC		14.78	23.95	33.17	42.93	
OF WHICH:DEFENSE(E)BC			(4.74)	(7.39)	(9.50)	(14.00)	
CAPITAL(EST)	BC		5.15	14.30	19.40	30.00	
DEFICIT(-)OR SURPLUS(+)BS			-.74	-.51	+.29	+3.88	
EXTERNAL PUBLIC DEPT (EST)							
TOTAL OUTSTDG AS JAN1 MIL US\$			2,932	3,955	5,056	6,429	7,062
ANNUAL PAYMENTS	MIL US\$		459	619	709	1,123	1,145
AMORTIZATION	MIL US\$		(389)	(416)	(442)	(710)	(699)

* 5 MONTHS

**MAY

@MARCH

BRAZIL

AS OF: 08/01/78

PAGE: 22

1.6.3 IMPORT/EXPORT

1.6.3.1 SEE ALSO
1.7.2.1

1.6.3.2 IMPORTS 71-73

IMPORTS OF PRINCIPAL COMMODITIES

TYPE	1971		1972		1973	
	TOTAL	US	TOTAL	US	TOTAL	US
CEREALS	132	69	152	37	354	183
COAL	42	42	47	44	36	32
LUBRICATING OILS	29	18	30	21	32	18
NAPHTHA	40	0	32		45	
PETROLEUM, CRUDE	363		488		653	
CHEMICAL & PHARMACEUTICAL PRO*	528	150	532	177	787	241
FERTILIZERS	77	44	157	91	153	91
PLASTICS	73	24	79	29	106	39
PAPER & PAPERBOARD	60	5	73	7	90	11
IRON & STEEL MANUFACTURES	294	43	289	53	543	124
COPPER & MANUFACTURES	87	22	101	18	178	36
MACHINERY, NON-ELECTRICAL	810	230	1,151	296	1,356	356
MACHINERY, ELECTRICAL	224	62	343	105	516	158
RAILROAD EQUIPMENT	32	16	31	15	70	24
VEHICLES, TRACTORS, CYCLES, AND PARTS	122	74	190	111	211	106
AIRCRAFTS & SHIPS	132	56	139	66	227	135
INSTRUMENTATION #	105	35	148	61	202	80
OTHER	551	172	801	202	1,296	261
TOTAL IMPORTS	3,701	1,062	4,783	1,333	6,855	1,895

*INCLUDES PHOTOGRAPHIC AND MOTION PICTURE GOODS

#INCLUDES OPTICAL, PHOTOGRAPHIC, MOTION PICTURE APPARATUS, MEDICAL
AND SURGICAL INSTRUMENTS & PARTS

NOTE: FIGURES IN MILLIONS US\$, CIF VALUE

1.6.3.3 EXPORTS 1973-
BRAZILIAN EXPORTS----FOB VALUES (FIGURES IN US \$1 MILLION)

	1974	1973
RAW MATERIALS		
DEMERARA SUGAR	975	454
COFFEE	877	1,244

BRAZIL

AS OF: 08/01/78

PAGE: 23

SOYA BEANS	585	494
IRON ORE	570	362
SOYABEAN CAKE AND BRAN	303	422
CRYSTAL SUGAR	283	97
COCOA BEANS	210	88
MAIZE	138	3
SISAL	114	59
TOBACCO LEAVES	98	58
OTHER RAW MATERIALS	656	815
	-----	-----
	4,809	4,096
MANUFACTURED GOODS		
SEMI-PROCESSED:		
CASTOR OIL	128	122
COCOA BUTTER	99	47
PINEWOOD (SAWN)	50	62
IRON ALLOYS	49	23
OTHER SEMI PROCESSED	305	222
	-----	-----
	631	476
MANUFACTURED:		
ROLLING STOCK	186	76
ELECTRICAL MACHINES	182	83
BOILERS, MACHINES, ETC.	149	72
PROCESSED COFFEE	124	99
FOOTWEAR	120	93
OFFICE MACHINES	96	41
PROCESSED BEEF	80	69
OTHER MANUFACTURED	1,591	932
	-----	-----
	2,528	1,465
	-----	-----
	3,159	1,941
	-----	-----
TOTAL EXPORTS	7,968	6,037

1.6.3.4

TRADE OVERVW

BRAZIL'S FOREIGN TRADE IS THE LARGEST IN VOLUME AND VALUE OF ALL LATIN AMERICAN REPUBLICS. IT PLAYS A VITAL ROLE IN THE COUNTRY'S ECONOMY. EXPORTS REPRESENT 10 % OF THE GDP.

EXCHANGE REGULATIONS

ALL EXCHANGE TRANSACTIONS ARE SETTLED AT THE OFFICIAL MARKET RATE. A FLEXIBLE EXCHANGE RATE SYSTEM WAS ADOPTED IN AUGUST 1968. IT CONSISTS OF FREQUENT AND SUCCESSIVE MINOR ADJUSTMENTS OF THE EXCHANGE RATE TO MAINTAIN THE VALUE OF THE CRUZEIRO AT LEVELS REALISTICALLY CONSISTENT WITH THE CURRENCIES OF BRAZIL'S MAIN TRADING PARTNERS, AT INTERVALS VARYING FROM A FORTNIGHT TO THREE MONTHS ('MINI-DEVALUATIONS').

IMPORT REGULATIONS

IMPORTS ARE GROUPED INTO THREE CATEGORIES: THOSE NOT REQUIRING AN IMPORT CERTIFICATE (THE MAJORITY), THOSE FOR WHICH A CERTIFICATE IS NECESSARY, AND PROHIBITED IMPORTS. IMPORT DUTIES FOR BRAZIL, WHICH IS A MEMBER OF GATT, ARE RECKONED ON AN AD-VALOREM BASIS. ESSENTIAL GOODS REQUIRED FOR DEVELOPMENT PURPOSES OR TO SUPPLY DOMESTIC MARKET IN TIMES OF SHORTAGE, MAY BE IMPORTED DUTY FREE.

LAFTA

BRAZIL IS A FOUNDING MEMBER OF THE LATIN AMERICAN FREE TRADE ASSOCIATION (ALALC). BRAZIL'S PRINCIPAL TRADING PARTNERS ARE: ARGENTINA, VENEZUELA, MEXICO AND CHILE.

1.6.3.5 ECONOMICS IMP

PRINCIPAL SOURCES OF IMPORTS (CIF PER CENT)

	1967	1973
	----	----
USA	31.8	28.0
EEC	22.7	28.6
WEST GERMANY	(11.6)	(15.0)
UNITED KINGDOM	(3.9)	(8.0)
FRANCE	(3.0)	(4.0)
JAPAN	5.4	8.3
ALALC (LAFTA)	10.4	10.7
OTHERS	29.7	24.4
TOTAL	100.0	100.0

1.6.3.6 ECONOMICS EXP

PRINCIPAL MARKETS FOR EXPORT (FOB PER CENT)

	1967	1973
	----	----
USA	28.0	20.0
EEC	27.7	37.2
WEST GERMANY	(8.1)	(9.1)
UNITED KINGDOM	(3.7)	(6.6)
FRANCE	(0.5)	(3.3)
JAPAN	4.6	6.9
ALALC (LAFTA)	11.0	9.0
OTHERS	28.7	26.9
TOTAL	100.0	100.0

1.7 AGRICULTURE

BRAZIL

AS OF: 08/01/78

PAGE: 25

1.7.1 PRODUCTION

1.7.1.1 1955-1975
INDICES OF AGRICULTURAL PRODUCTION 1955-1975

	1955	1960	1965	1970	1972	1973	1974	1975P
TOTAL AGRICULTURAL PRODUCTION								
TOTAL PRODUCTION	74	89	116	122	138	134	150	155
PER CAPITA PRODUCTION	93	97	110	101	107	101	110	111
FOOD PRODUCTION								
TOTAL PRODUCTION	72	87	115	137	147	148	162	169
PER CAPITA PRODUCTION	90	95	109	113	114	112	119	121

1.7.2 IMPORT/EXPORT

1.7.2.1 IMPORTS

BRAZIL AGRICULTURAL IMPORTS (IN MIL \$US)

ITEM	1969	1970	1971	1972
WHEAT	162	127	124	387

1.8 PHYSICAL

1.8.1 CLIMATE

1.8.1.1 PRECIPITATION

	PRECIPITATION											
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BARRA DO CORDA	6.7	8.7	8.0	6.1	2.3	1.0	0.7	0.7	1.0	2.5	3.9	5.7
BELA VISTA	6.6	4.9	4.4	4.3	5.0	2.8	1.3	1.8	2.9	5.4	5.8	7.0
BELEM	12.5	14.1	14.1	12.6	10.2	6.7	5.9	4.4	3.5	3.3	2.6	6.1
BRASILIA	9.0	7.8	4.8	3.4	1.4	*	0.0	*	1.3	4.9	9.7	11.7
CONCEICAO DOARAGUAI	14.9	12.1	10.8	4.1	1.9	0.4	*	0.5	1.5	6.6	4.9	8.6
CORUMBA	7.3	5.9	5.1	4.6	2.9	1.9	0.3	1.2	2.6	4.0	5.6	7.1
FLORIANO- POLIS	7.6	5.6	6.3	4.1	3.6	3.5	2.2	3.7	4.3	5.1	3.5	4.3

BRAZIL

AS OF: 08/01/78

GOIAS	12.5	9.9	10.2	4.6	0.4	0.3	0.0	0.3	2.3	5.3	9.4	9.5
GUARA- PUAVA	8.7	5.8	5.4	4.5	4.6	6.5	2.7	3.6	4.6	6.9	6.6	6.1
MANAUS	9.8	9.1	10.3	8.7	6.7	3.3	2.3	1.5	1.8	4.2	5.6	8.0
NATAL	1.9	4.8	7.0	9.2	7.1	8.7	7.7	3.8	1.4	0.8	0.7	1.1
PARANA PORTO	11.3	9.3	9.4	4.0	0.5	*	0.1	0.2	1.1	5.0	9.1	12.2
ALEGRE QUIXERA-	3.5	3.2	3.9	4.1	4.5	5.1	4.5	5.0	5.2	3.4	3.1	3.5
MOBIM	0.7	5.0	6.6	5.0	7.0	1.7	0.7	0.6	0.4	0.6	0.7	0.6
RECIFE	2.1	3.3	6.3	8.7	10.5	10.9	10.0	6.0	2.5	1.0	1.0	1.1
RIO DE JANERIO	4.9	4.8	5.1	4.2	3.1	2.1	1.6	1.7	2.6	3.1	4.1	5.4
SALVADOR (BAHIA)	6.8	5.3	6.1	11.2	10.8	9.4	7.2	4.8	3.3	4.0	4.5	5.6
SANTAREM	8.8	10.9	13.2	12.9	11.3	6.9	4.1	1.7	1.5	1.9	2.3	4.1
SAO PAULO SENA	8.8	7.8	6.0	2.2	3.0	2.4	1.5	2.1	3.5	4.6	6.0	9.4
MADUREIRA	11.2	11.3	10.2	9.4	4.1	2.2	1.1	1.5	4.0	7.0	7.5	11.7
UAPES	10.3	7.7	10.0	10.6	12.0	9.2	8.8	7.2	5.1	6.9	7.2	10.4
URUGU- AIANA	3.6	3.6	5.6	5.1	3.7	4.2	3.2	2.8	3.6	4.1	2.9	4.1

1.8.1.2

TEMPERATURE

(DEGREES FAHRENHEIT)

CITY	RGE	JAN	APR	JUL	OCT	EXT	LATI- TUDE	LONGI- TUDE
BARRA DO COROA	MAX	89	89	92	94	103	05,35S	45,28W
	MIN	71	71	64	72	45		
BELA VISTA	MAX	91	85	77	87	108	22,06S	56,22W
	MIN	67	61	49	61	20		
BELEM	MAX	87	87	88	89	98	01,27S	48,29W
	MIN	72	73	71	71	61		
BRASILIA	MAX	80	82	78	82	93	15,15S	47,56W
	MIN	65	62	51	64	46		
CONCEICAO DO ARAGUAIA	MAX	88	91	95	93	102	08,15S	57,39W
	MIN	70	68	63	68	55		
CORUMBA	MAX	94	92	84	93	106	19,00S	57,39W
	MIN	73	73	64	70	33		
FLORIANOPOLIS	MAX	83	74	68	73	102	27,35S	48,33W
	MIN	72	64	57	63	32		
GOIAS	MAX	86	91	89	94	104		

BRAZIL

AS OF:
MIN

08/01/78

		63	63	56	63	41	15,58S	50,04W
GUARAPUAVA	MAX	79	73	66	74	94		
	MIN	61	55	47	53	23	25,16S	51,30W
MANAUS	MAX	88	87	89	92	101		
	MIN	75	75	75	76	63	03,08S	60,01W
NATAL	MAX	87	86	82	85	100		
	MIN	76	73	69	75	61	05,46S	35,12W
PARANA	MAX	90	90	91	94	105		
	MIN	58	58	48	58	37	12,65S	48,06W
PORTO ALEGRE	MAX	87	78	66	74	105		
	MIN	67	60	40	57	25	30,02S	51,13W
QUIXERAMOBIM	MAX	92	86	88	93	100		
	MIN	79	76	74	77	63	05,12S	39,18W
RECIFE	MAX	86	85	80	84	94		
	MIN	77	75	71	75	50	08,04S	34,53W
RIO DE JANEIRO	MAX	84	80	75	77	102		
	MIN	73	69	63	66	46	22,55S	43,12W
SALVADOR (BAHIA)	MAX	86	84	79	83	100		
	MIN	74	74	69	71	50	13,00S	38,30W
SANTAREM	MAX	86	85	87	91	99		
	MIN	73	73	71	73	65	02,30S	54,42W
SAO PAULO	MAX	77	73	66	68	100		
	MIN	63	59	53	57	32	23,37S	46,39W
SENA MADUREIRA	MAX	92	91	91	93	100		
	MIN	69	68	63	69	41	09,04S	68,39W
UAPES	MAX	88	88	85	89	100		
	MIN	72	72	70	71	52	00,08S	67,05W
URUGUAIANA	MAX	91	78	66	77	108		
	MIN	69	59	48	55	27	29,46S	57,07W

PAGE: 27

1.8.2 TERRAIN

1.8.3 LAND USE

1.8.3.1 OVERVIEW

BRAZIL

AS OF: 08/01/78

PAGE: 28

ON 2.1 BILLIONS ACRES OF LAND THERE WERE 4.9 MILLION FARMS IN 1970. AN INCREASE OF 1.5 MILLION SINCE 1965. MUCH OF WHICH IS ATTRIBUTABLE TO SETTLEMENT OF VIRGIN LAND IN FRONTIER AREAS. 90 MILLION ACRES. 11% OF FARMLAND, IS UNDER CROP CULTIVATION. MOST FARMLAND IS IN PASTURE, SMALL WOOD LOTS OR LYING FALLOW. 75% OF BRAZIL IS ESTIMATED BY THE FAO TO BE SUITABLE FOR SOME KIND OF AGRICULTURAL ACTIVITY. 36% OF THE FARMS ARE UNDER 25 ACRES, 26% BETWEEN 25 AND 62 ACRES AND THE REST OVER 125 ACRES. THE AVERAGE FARM SIZE IS OVER 250 ACRES. 40,000 FARMS OVER 250 ACRES ACCOUNT FOR 43% OF THE AVAILABLE FARMLAND AND 10% OF THE LANDOWNERS CONTROLLED 45% OF THE FARMLAND IN 1970.

61% OF THE TOTAL AREA IS FORESTED, BUT DIFFICULT TO EXPLOIT (AMAZON BASIN).

1.8.4 RIVERS/COAST

1.8.4.1 RIVERS

THERE ARE 21,944 MILES OF INLAND WATERWAYS OPEN TO NAVIGATION. THE AMAZON RISES IN THE PERUVIAN ANDES AND FLOWS 2,000 MILES EASTWARD TO THE ATLANTIC. IT IS NAVIGABLE BY OCEAN GOING VESSELS AS FAR AS IQUITOS, AND MANAUS IS AN IMPORTANT SEAPORT. SMALLER CRAFT CAN REACH PORTO VELHO ON THE MADEIRA TRIBUTARY. THE AMAZON HAS EIGHTEEN MAJOR TRIBUTARIES, WITH MORE THAN 200 RIVERS IN THE SYSTEM, WHICH DRAINS ABOUT 59% OF THE BRAZILIAN TERRITORY.

THE SAO FRANCISCO RIVER RISES NEAR BELO HORIZONTE AND FLOWS NORTHWARD, PARALLEL TO THE COAST, FOR ABOUT 1,000 MILES BEFORE TURNING SHARPLY TO THE EAST AT PAUL ALFONSO FALLS. ABOUT 150 MILES FROM THE ATLANTIC, IT IS NAVIGABLE FOR ABOUT 1,000 MILES.

ONLY TWO RIVERS CUT THROUGH THE ESCARPMENTS OF THE COASTAL RANGES TO THE CENTRAL HIGHLANDS. THE DOCE RIVER FLOWS FROM THE HIGHLAND SOUTH OF BELO HORIZONTE NORTHWARD ABOUT 200 MILES BETWEEN THE SERRA DO ESPINHACO AND THE SERRA DOS AIMORES RANGES, THEN EASTWARD TO THE ATLANTIC NEAR VITORIA.

THE PARAIBA RIVER, WHICH HAS ITS SOURCE NEAR SAO PAULO, FLOWS NORTHWARD BETWEEN TWO COASTAL RANGES. A NATURAL LINE OF COMMUNICATION BETWEEN SAO PAULO AND RIO DE JANEIRO.

BECAUSE OF THE WESTWARD DOWNSLOPE OF THE PLATEAU, MANY RIVERS OF THE CENTRAL HIGHLANDS FLOW WESTWARD INTO THE RIO DE LA PLATA DRAINAGE BASIN. THE PARANA RIVER RISES IN GOIAS, FLOWS SOUTHWARD ACROSS THE CENTRAL HIGHLANDS, FORMING PARTS OF THE FRONTIERS WITH PARAGUAY AND ARGENTINA. THE SETE QUADROS HYDRO-ELECTRIC POWER PROJECT IS LOCATED ON IT. THE URUGUAY RIVER RISES IN THE SERRA DO MOR AND FLOWS WESTWARD, THEN SOUTH ALONG ARGENTINA BORDER. THE PARAGUAY RISES IN MATO GROSSO AND FLOWS SOUTHWARD INTO PARAGUAY AND ARGENTINE. MORE THAN HALF OF ALL MERCHANDISE TRANSPORTED BY INLAND WATERWAYS WAS CARRIED ON SOUTHEASTERN RIVERS, MAINLY THE PARANA AND PARAGUAY. AMAZON BASIN RIVERS ACCOUNTED FOR ONE FOURTH OF ALL RIVER TRANSPORTATION.

BRAZIL

AS OF: 08/01/78

PAGE: 29

1.8.5 MOUNTAINS

1.8.6 VOLCANOES

1.8.7 SEISMIC FLTS

1.9 LOGISTICS

1.9.1 SEAPORTS

1.9.1.1 GENERAL

THERE ARE OVER 200 NATURAL HARBORS ALONG THE SEACOAST; BUT ONLY THREE DOZEN ARE ORGANIZED SEAPORTS. THE MOST IMPORTANT ARE LISTED HERE.

1.9.1.2 RECIFE

RECIFE
PERNAMBUCO STATE

LAT. 8.4'S; LONG. 34.52'W.

AUTHORITY-A.P.R. ADMINISTRACAO DO PORTO DO RECIFE. AV. ALFREDO LISBOA S/N. TEL. 241-834, 241-447

ACCOMMODATION:TIDAL HARBOR AREA. 1 1/2 MILES. DEPTH OF OUTER PASSAGE, 33FT. DEPTH AT ENTRANCE, 31FT. VESSELS UP TO 30FT 6IN DRAFT CAN GO ALONGSIDE QUAYS NEAREST ENTRANCE. DEPTH IN REMAINDER OF HARBOR VARIES FROM 25FT TO 31FT. APPROXIMATELY TWO MILES OF QUAYS. NEW QUAY OF 200M COMPLETED. 16 GENERAL WAREHOUSES.NO. 1 FOR EXPLOSIVES, NO. 4 FOR BAGGAGE, AND ONE REFRIGERATED WAREHOUSE. 37 ELECTRIC 1 1/2-TON CRANES, SEVEN ELECTRIC 5-TON CRANES, ONE 20-TON CRANE(54FT RADIUS). RECIFE IS BRAZIL'S PRINCIPAL SUGAR PORT; GOOD LOADING FACILITIES AVAILABLE. TWO GRAIN ELEVATORS, ONE BEING MOVABLE, FOR SHIPS WITH 31FT DRAFT. THE OTHER FOR SHIPS UP TO 26FT, WITH AN AVERAGE OF 45 TONS/HR FOR WHEAT. STORES AND WATER AVAILABLE 17,700 CU FT OF REFRIGERATED SPACE.

DEVELOPMENT-DREDGING OF PORT IS CONTINUING.

TANKER TERMINALS-TWO OIL BERTHS. LENGTHS 600FT. DRAFTS 30FT. AND 31FT. BUNKERS-SEVEN OIL STORAGE TANKS WITH A TOTAL CAPACITY OF 31,300 TONS. SHIPREPAIRS-AVAILABLE.

TOWAGE-TUGS OF 600 AND 1,200 H.P. AVAILABLE.

PILOTAGE-COMPULSORY

AIRPORT-GUARAPES, 5KM FROM TOWN.

LOCAL HOLIDAYS-GOOD FRIDAY, ST JOHN THE BAPTIST(JUNE 24) OUR LADY OF CARMO(JULY 16), OUR LADY'S DAY(DECEMBER 8).

LLOYD'S AGENT-EDEN MAURICE THOM, AV. BARBOSA LIMA, 149-5'/501-502, P.O. BOX 46.

1.9.1.3 RIO DE JANEIR

BRAZIL

AS OF: 08/01/78
RIO DE JANEIRO

PAGE: 30

LAT. 22.54'42"S; LONG. 43.9'W.

ACCOMMODATION: THE HARBOR HAS AN AREA OF OVER 30 SQUARE MILES. THERE IS PRACTICALLY NO BAR. APPROACH THROUGH CHANNEL, 200M WIDE, MAX DRAFT 52FT, MIN DRAFT 50FT 5IN. THE ANCHORAGE IS GOOD, MUDDY BOTTOM. WITH THE EXCEPTION OF ONE BANK WHERE THERE IS ONLY 21FT NEAPS, THE DEPTH VARIES FROM 30 TO 70FT. HEALTH OFFICERS BOARD ON ARRIVAL. NO VESSEL CAN MOVE FROM VISITING ANCHORAGE BEFORE RECEIVING HEALTH OFFICERS, CUSTOMS, AND POLICE AND IMMIGRATION OFFICERS; NO CHARGE UNLESS FOR SPECIAL MEDICAL ATTENDANCE BETWEEN 7PM AND 7AM. BERTHS ACCORDING TO CARGO; AGENTS MUST REPORT ARRIVAL TO MARITIME POLICE GIVING PARTICULARS OF CARGO.

THERE ARE ABOUT 7,300M OF QUAY EQUIPPED WITH 144 CRANES FROM 1 1/2 TO 10 TONS CAPACITY. THERE ARE 33 BONDED WAREHOUSES, REFRIGERATED WAREHOUSES AND SEVERAL GRAIN SUCTION INSTALLATIONS; ALSO BAGGAGE CLEARING HOUSE WITH WAITING ROOM FOR PASSENGERS. THE 400M MAUA PIER AT RIGHT ANGLES TO MAIN LINER BERTH IS USED MAINLY FOR PASSENGER LINERS.

D. AT QUAYS, L.W.: -700M WITH 10M ALONGSIDE; 1,500M WITH 9M, 2,680M AT 8M AND 1,180M AT 6M. THE LINES OF THE CENTRAL RAILWAY OF BRAZIL JOIN THOSE OF THE QUAY CO., THE SYSTEM OF LEOPOLDINA RAILWAY BEING ABOUT A MILE DISTANT, BUT CONNECTING WITH THE QUAY CO. ALSO. PASSENGER SHIPS RECEIVE PRIORITY FOR QUAY SPACE. ALL VESSELS MAY DISCHARGE (OR LOAD) SIMULTANEOUSLY ON THE QUAY AND INTO LIGHTERS. CARGO MAY BE WORKED BY LIGHTERS IN THE BAY.

FRESH WATER AVAILABLE AT VARYING RATES FROM QUAYS. FROM BOATS ALONGSIDE QUAYS, INSIDE ANCHORAGE LIGHTS. OVERTIME FOR WATER BOATS, NIGHTS SATURDAY FROM 12, SUNDAYS.

WORKING HOURS: 0700 TO 1100, 1200 TO 1600. OVERTIME: 1100 TO 1200, 1600 TO 1800, 1800 TO 1900. NIGHT WORK-1600 TO 2000, 2100 TO 0100. EXTRA NIGHT HOURS-2000 TO 2100, 0100 TO 0300. SATURDAY-DOCK COMPANY WORKS AT OVERTIME RATES. STEVEDORES ORDINARY PAY.

TANKER TERMINALS: EIGHT OIL BERTHS. LENGTH 560FT TO 950FT, NO LIMIT DRAFT 26FT TO 45FT.

SHIPREPAIRS: DRY DOCKS ARE AVAILABLE.

PILOTAGE: NOT COMPULSORY.

LOCAL HOLIDAYS: ST SEBASTIAN'S DAY (JANUARY 20), GOOD FRIDAY, EMANCIPATION DAY (MAY 13), CORPUS CHRISTI, CARNIVAL TUESDAY.

BRAZIL

AS OF: 08/01/78
SANTOS
SAO PAULO STATE

PAGE: 31

LAT. 23.56'26"S; LONG. 46.19'47'W

AUTHORITY: SANTOS DOCK COMPANY. AV. CONSELHEIRO RODRIGUES ALVES

ACCOMMODATION: THE HARBOR IS FORMED ON THE EAST BY THE ISLAND OF SANTO AMARO, ON THE WEST BY THE ISLAND OF SAO VICENTE. DEPTH IN CHANNEL, NEWLY DREDGED TO 31FT. DEPTH ALONGSIDE WHARVES NOS. 1 TO 11, 16 TO 23FT; NOS 12 TO 22, 25 TO 31FT; NOS. 23 TO 27, 26FT. NEW QUAY (CAIS SABOO), 30 TO 31FT; INFLAMMABLES ISLAND (BARNABE), 31 FT (ALL L.W.S). TOTAL LENGTH OF WHARVES, 7.034M, WHICH ARE DIVIDED AS FOLLOWS: GENERAL FOREIGN CARGO 2.769M; COASTWISE GENERAL CARGO 371M; BULK CARGO, SOLID 2.361M; BULK CARGO, LIQUID 1.071M. THE REMAINING WHARVES (462M) ARE USED BY FISHING VESSELS ONLY. THIS IS THE GREAT COFFEE PORT OF BRAZIL AND THERE ARE SPECIAL WAREHOUSES FOR INSPECTION AND SORTING OF COFFEE. BULK MAIZE LOADED AT WAREHOUSES 9,14,20 AND 22 BY CONVEYOR BELTS. BAGGED SUGAR IS LOADED EX RAIL WAGONS AND/OR LORRIES BY SHORE CRANES AND/OR SHIP'S DERRICKS. BULK SUGAR IS LOADED BY BLEEDING BAGS INTO VESSELS HOLD. COTTON DELIVERED ALONGSIDE BY RAIL WAGONS AND/OR LORRIES. WHEAT IN BULK DISCHARGES BY PNEUMATIC SUCKERS AND WAREHOUSES 9, 13, AND 26 WHERE DRAFTS ARE 21, 30 AND 26FT. RESPECTIVELY. DISCHARGING INTO RAIL WAGONS, LORRIES OR TO SILOS. STORAGE CAPACITIES OF SILOS NEAR EACH DISCHARGE BERTHS 68.000 TONS. MAIN LOCAL COAL IMPORTERS HAVE OWN TERMINAL AT PIACAGUERA NEAR THEIR STEELWORKS. TERMINAL CAN ACCOMODATE TWO VESSELS ALONGSIDE. NEW TERMINAL AT PIACAGUERA 200M LONG AND CAN HANDLE ONLY ONE VESSEL AT A TIME. DISCHARGE BY OFF-LOADING MACHINE CONNECTED TO CONVEYOR BELT SYSTEM. RAILWAYS:

RAILWAYS-200KM OF TRACKS CONNECTED TO THE SANTOS-JUNDIAI AND SOROCABANA RAILWAYS AND LINKING THE PORT WITH THE WHOLE OF THE COUNTRY.

FRESH WATER: AVAILABLE FROM THE SHORE OR FROM BARGE.

WAREHOUSES: 31 BONDED(AREA 69.436 SQ M) INCL REFRIGERATED STORE (9.200 CU M); 28 NON-BONDED(AREA 227.021 SQ M); THREE WHEAT SILOS(CAPACITY 68.000MT); VARIOUS YARDS AND BUILDINGS(AREA 54.000SQ M). THERE ARE 150 TANKS FOR INFLAMMABLE LIQUIDS, CAPACITY 436.370 CU M. CONTAINER HANDLING FACILITIES BY CONVENTIONAL METHODS.

WORKING HOURS: 0700 TO 1100, 1300 TO 1700. OVERTIME CAN BE ARRANGED AT NIGHT ON ORDINARY WORKING DAYS BUT NO WORK PERFORMED AFTER 1900 ON SUNDAYS AND HOLIDAYS AND NO WORK FROM 0400 TO 0600 EXCEPT FOR COMPLETION OF PASSENGER SHIP OPERATIONS OR SHIPS LOADING/UNLOADING MECHANICALLY.

DEVELOPMENT: THE 770M SABOO QUAY IS INTENDED TO BE UTILIZED TO STORE SOLID BULK CARGOES. PROVIDING APPROXIMATELY 22,400SQ M. THE DOCK CO. WILL CONSTRUCT A NUMBER OF WAREHOUSES TO STORE COMMODITIES THAT CAN-

BRAZIL

AS OF: 08/01/78

PAGE: 32

NOT BE AFFECTED BY RAIN. THE AUTHORITIES HAVE AUTHORIZED THE UTILIZATION OF THE CONCEICAOZINHA QUAY LOCATED ON THE OTHER SIDE OF THE CHANNEL TO DISCHARGE BULK CARGOES. THIS WILL INVOLVE THE EXTENDING OF RAILWAY LINES TO THE OTHER SIDE OF THE CHANNEL BY MEANS OF A FERRY BOAT SYSTEM. SEVERAL BARGES, AS WELL AS TWO TUGS ORDERED FOR THAT SERVICE ARE LYING READY AT SANTOS. THE TWO WAREHOUSES FOR STORING DRY BULK CARGOES AT THE QUAY ARE ALMOST READY. A RAILWAY SPUR BY-PASSING SANTOS WILL BE INSTALLED. RATE OF DISCHARGE AT THIS TERMINAL IS EXPECTED TO BE AROUND 3,000 TONS DAILY.

TANKER TERMINALS: SIX OIL BERTHS. LENGTHS 650 FT. DRAFT 27FT TO 30FT.

SHIPREPAIRS: SLIPS FOR VESSELS UP TO 500, 800 AND 1,000 TONS.

CHARGES: PORT UTILIZATION TAX-CALCULATION EFFECTED BY MULTIPLYING ACTUAL NET VALUE OF THE PORT UTILIZATION TAX BY THE N.R.T. OF THE VESSELS AND BY A COEFFICIENT WHICH IS OBTAINED FROM A TABLE. QUAY DUES-STEAMERS AND MOTOR VESSELS, PER M LENGTH OF VESSEL PER DAY. OTHER CHARGES-PORT EQUIPMENT HIRE, TOWAGE, PILOTAGE, MOORING AND UNMOORING VARY.

AIRPORT: CONGONHAS AIRPORT, SAO PAULO.

LLOYD'S AGENT: NORTON, MEGAW & CO LTS, PRACA VISCONDE MAUA, 29-1.

1.9.1.5 VITORIA

VITORIA
ESPIRITO SANTO STATE

LAT. 20.19'S; LONG. 40.20'W ON THE NORTH SIDE OF RIO SANTA.

AUTHORITY: VITORIA PORT ADMINISTRATION, AV. GETULIO VARGAS, BLDG. 4, VITORIA, ESPIRITO SANTO. TEL.3-1311, 3-0603.

ACCOMMODATION: DEPTH AT ENTRANCE MAINTAINED AT 12M. ANCHORAGE AT BAR 12 T 18M. MANOEUVERING BASIN 33CM DEPTH MAINTAINED AT 36FT. MAXIMUM DRAFT 36FT H.W. AND 32FT L.W. APPROACH-RESTRICTIVE BUT SAFE. ALL SAILINGS TO TAKE PLACE ON RISING TIDE BUT ONLY VESSELS UP TO 205M ALLOWED TO SAIL AT NIGHT. TIDAL VARIATION 3 1/2 TO 5FT.

COMMERCIAL QUAYS: TOTAL LENGTH 900M. 300M DEPTH ALONGSIDE 15FT. 200M DEPTH ALONGSIDE 25FT. 400M DEPTH ALONGSIDE 27FT 6IN. PAVED LENGTH OF QUAY 1,000M. WIDTH 17M. THREE LARGE GOVERNMENT WAREHOUSES, 100M LONG, 20M WIDE, ALL SERVED BY TRAVELLING CRANES AND RAILWAY TRACKS. PERMITTING DIRECT LOADING AND UNLOADING BETWEEN SHIPS AND WAGONS. SELF PROPELLED WATERBOAT, CAPACITY 50 TONS DRINKING WATER. EIGHTEEN FRESH-WATER HYDRANTS ALONG QUAY EACH SUPPLYING ABOUT 30 TONS/HR. LIGHTING

BRAZIL

AS OF: 08/01/78

PAGE: 33

CONNECTIONS ALONG QUAY. GOOD STEVEDORING SERVICE. ROAD, RAIL AND COASTAL CONNECTIONS WITH OTHER PORTS. FRESH WATER AND STORES AVAILABLE.

IRON QUAY-EXCELLENT AUTOMATIC FACILITIES FOR LOADING/IRON ORE WHICH HAS 68.5% FE CONTENT. FRESH WATER AVAILABLE AT BOTH QUAYS. ATALAYA QUAY-USED FOR LOADING VARIOUS TYPES OF ORE. SILO CAP. 80,000 TONS. AT THIS AND PAUL QUAY SAILING DRAFT IS LIMITED TO 36FT H.W.. NO ALLOWANCE BEING MADE FOR FRESH WATER THOUGH WATER IS OFTEN BRACKISH. MAXIMUM LENGTH PERMITTED AT BOTH THESE QUAYS, 240M. FRESH WATER AVAILABLE AT 18 TONS/HR.

PAUL QUAY-STOCKPILE 20,000 TONS. MAXIMUM SAILING DRAFT 36FT. USIMINAS QUAY-USED EXCLUSIVELY FOR HANDLING CARGO CONSIGNED TO USIMINAS. VESSELS UP TO 240FT LENGTH WITH MAXIMUM DRAFT OF 31FT CAN BERTH HERE.

SHELL BERTH-FOR DISCHARGING TANKERS ONLY. MAXIMUM DRAFT 32FT.

WORKING HOURS: GENERAL CARGO QUAYS-0700 TO 1100, 1300 TO 1700, 1700 TO 1900, 1900 TO 2300, 0000 TO 0400, 0400 TO 0600. WORK ON SUNDAY-0700 TO 1100, 1300 TO 1700.

TANKER TERMINALS: THREE OIL BERTHS. LENGTHS 533FT TO NO LIMIT. DRAFT 27FT TO 45FT AND BUNKERS AVAILABLE.

DEVELOPMENT: NEW BERTH UNDER CONSTRUCTION AT CAPUABA FOR THREE BERTHS. PLANNED DEPTH ALONGSIDE 11M. EXPECTED COMPLETION 1973.

BUNKERS: NOT AVAILABLE.

SHIPREPAIRS: SMALL WORKSHOPS FOR EMERGENCY REPAIRS.

TPWAGE: 3 TUGS AVAILABLE.

PILOTAGE: COMPULSORY.

1.9.1.6 BELEM

BELEM
PARA STATE

LAT. 1.27'S; LONG. 48.30'W. ON RIGHT BANK OF RIO PARA, MOST EASTERLY DISTRIBUTARY OF AMAZON DELTA. IT LIES 110 MILES FROM SEA AND IS CAPITAL OF STATE OF PARA, AS WELL AS THE PRINCIPAL CITY AND COMMERCIAL CENTER ON THE NORTH COAST OF BRAZIL.

AUTHORITY: COMPANHIA DAS DOCAS DO PARA (C.D.P.) AND EMPRESA DE NAVEGACAO DA AMAZONIA, A/A (ENASA). AVENIDA PRESIDENTE VARGAS NO 41 BELEM, PARA, BRAZIL. CDP IS A DOCK COMPANY. ENASA IS A FLUVIAL COMPANY.

APPROACH: GOOD ANCHORAGE ABOUT 10 MILES DOWNSTREAM FOR VESSELS OVER 26FT DRAFT; ANCHORAGE AT VAL-DE-CANS 2 1/2 MILES DOWNSTREAM FOR VES-

BRAZIL

AS OF: 08/01/78

SELS UP TO 26FT DRAFT. CHANNEL FROM VAL-DE-CANS TO PORT 22FT DEPTH
H.W.S.T., 13FT L.W.S.T.

PAGE: 34

ACCOMMODATION: TIDAL PORT 3 MILES LONG, 1 MILE WIDE. WHARFAGE 5,000 FT LONG FOR VESSELS UP TO 22FT DRAFT ONLY. TIDAL BASIN WITH 1,800FT OF QUAY FOR VESSELS WITH 7FT DRAFT. MANEUVERING BASIN SITUATED BELOW SHED NO. 1, LENGTH 1,000M, WIDTH 500M, DEPTH UP TO 22FT. LIGHTERS UP TO 700 TONS AVAILABLE. FAIR WATER SUPPLY FROM SHORE ONLY. 4,133FT OF QUAY-WALL FOR OCEAN-GOING VESSELS, WITH DEPTH ALONGSIDE VARYING FROM 19FT TO 22 FT AT L.W.; 862FT OF QUAY-WALL FOR RIVER STEAMERS, WITH DEPTH ALONGSIDE OF 17FT AT L.W.. 15 WAREHOUSES WITH TOTAL FLOOR SPACE OF 42,825SQ YDS. OIL JETTY AT MIRAMAR, DEPTH OF WATER ALONGSIDE, 26FT H.W.S.T., 21FT L.W.S.T., LENGTH 466FT. SHIPS REQUIRE ASSISTANCE OF MOORING LAUNCH, AND SHIPS OVER 100M LONG REQUIRE TUG FOR BERTHING AND UNBERTHING AT ALL BERTHS. GRAIN BERTH WITH 6,385.770CU M CAPACITY (BEING INCREASED TO DOUBLE STORAGE CAPACITY).

TANKER TERMINALS: 2 OIL BERTHS.

SHIPREPAIRS: AVAILABLE.

AIRPORT: VAL-DE-CANS INTERNATIONAL AIRPORT. FIVE MILES FROM DOCKS.

LLOYD'S AGENT: BOOTH (BRAZIL) LTD.

1.9.1.7 MANAUS

MANAUS

LAT. 3,8'S; LONG. 60W. FREE TRADE PORT ON RIVER NEGRO. 960 MILES FROM SEA.

AUTHORITY: ADMINISTRACAO DO PORTO MANAUS.

ACCOMMODATION: VESSELS OF ANY DRAUGHT MAY BERTH ALONGSIDE FLOATING PONTOONS, THE TOTAL LENGTH OF WHICH IS 1,400M. THERE ARE 17 WAREHOUSES WITH TOTAL AREA OF 20,000SQ M. RISE OR FALL BETWEEN RAINY AND DRY SEASONS CAN BE UP TO 50FT.

SHIPREPAIRS: FACILITIES FOR SMALL VESSELS OR EMERGENCIES ONLY.

1.9.1.8 SANTANA

SANTANA

LAT. 00,03'26"S; LONG. 51,10'58"W. ON THE AMAZON RIVER ABOUT 150 MILES FROM THE SEA.

AUTHORITY: A MANGANESE ORE LOADING PORT OWNED AND OPERATED BY INDUSTRIA DE COMERCIO DE MINERIOS(ICOMI)

BRAZIL

AS OF: 08/01/78

PAGE: 35

ANCHORAGE: IN FRONT OF THE PORT, PROTECTED ANCHORAGE BETWEEN MAINLAND AND SANTANA ISLAND. WHERE VESSELS CAN ANCHOR AT ANY LOCATION. THE BOTTOM IS MUD.

APPROACH: THROUGH THE NORTH CHANNEL OF THE AMAZON RIVER.

ACCOMMODATION: THE ORE PIER CONSISTS OF A FLOATING STRUCTURE 247M LONG, SUPPORTED BY 46 RECTANGULAR STEEL PONTOONS, EQUIPPED TO LOAD ORE CARRIERS UP TO 45,000 TONS CAPACITY. SAFE DRAFT ALONGSIDE, 40FT. THE GENERAL CARGO PIER IS LOCATED IMMEDIATELY EASTWARD OF THE FLOATING FENDER. THE PIER FRONTAGE IS 18M. THE DECK IS 6M ABOVE MEAN RIVER LEVEL. THE SAFE DRAFT ALONGSIDE IS 30FT. THREE GOVERNMENT WAREHOUSES 100M FROM PIER. DISTANCE FROM MACAPA TOWN BY RIVER, 12 MILES, BY ROAD 25KM. VESSELS LIABLE TO FINES FOR DISCHARGE OF OIL IN PORT AREA.

SHIPREPAIRS: ONLY IN CASES OF EXTREME EMERGENCY--MINOR REPAIRS.

PILOTAGE: NOT COMPULSORY.

TRAFFIC: APPROXIMATELY 42 BULK ORE CARRIERS, GENERAL 32 AND NINE TANKERS.

LOCAL HOLIDAYS: JANUARY 25, MAY 15, AND SEPTEMBER 13.

AIRPORT: 25KM FROM SANTANA.

1.9.2 AIRPORTS

1.9.2.1 LIST

CITY.AERODROME NAME&LOC. ID	MAJOR AIRPORTS/STORAGE		ELEV (FT)	LNGST RNWY	FACIL & SRVCING	FUEL OCTANE	REMRKS
	LOCATION						
BAGE.CMTE GK (SBBG)	3.72:31.23'S, 54.07'W		591	494	RBLH		
BELEM.VAL DE CAES (SBBE)	3.7N:01.23'S, 48.29'N		52	83H	RBL2458 S1	80.91.100 115.JP-1	
BOA VISTA (SBBV)	3.1NW:02.49'N 60.40'W		295	79H	R	100	
BRASILIA (SBBR)	6.8S:15.22'S, 47.55'W		3478	98H	RBL2458	80.100. 115.JP-1	
CAMPINAS. V (SBKP)	8.7SSW:23.00'S, 47.08'W		2169	106H	RBL248 S1	91.100. JP-1	

BRAZIL

	AS OF:	08/01/78				
CAMPO GRANDE (SBCG)	2.5W;20.28'S, 54.40'W	1834	74H	RBL248 S1	80.91, 100,JP-1	
CORUMBA (SBCR)	1.9W;19.01'S, 57.4'W	459	51H	RL24	80.91,100	
CRUZIERO DO SUL (SBCZ)	3.7NW;07.36'S, 72.41'W	617	30H	R	100	
FOZDO IGUACU CATARATA (SBFI)	6.8SW;25.36'S, 54.30'W	778	66H	RL24 S1	80.91,100 115	
MACAPA (SBMQ)	0.6N;00.03'N 51.04'W	49	69H	R	NONE	
MANAUS. PONTA PELEDA (SBMN)	2.5SE;03.09'S; 59.59'W	276	67H	RBL248 S1	100,JP-1	
PELOTAS (SBPK)	1.9N;41.33'S 52.19'W	59	65H	RS3	100	
PONTA PORA (SBPP)	1.2SW;22.33'S, 55.42'W	2165	66H	R	80.91	
PORTO ALEGRE SALGADO FILHO (SBPA)	4.3NE;30.00'S 51.11'W	13	75H	RBL2458 S1	80.91,100 115,JP-1	
RECIFE.G (SBRF)	6.2S;08.08'S, 34.55'W	36	80H	RBL2458 S1	80.91,100 115,JP-1	
RIO BRANCO (SBRB)	1.9N;09.59'S, 67.49'W	347	85H	RB24		
RIO DE JANEIRO (SBG_)	7.5NNW;22.50'S, 43.15'W	16	108H	RBL2458 S4	80.91,100, 115,JP-1	
SAO PAULO CONGONHAS (SBSP)	4.3S;23.37'S, 46.39'W	2631	57H	RBL2458 S1	80.91,100 115,JP-1	
TABATINGA (SNTT)	04.14'S, 69.55'W	394	71H	R		
URUGUAIANA, RB (SBUG)	3.1SE;29.47'S, 57.02'W	243	49H	RBL24	80.90,100	

KEY:

BRAZIL

AS OF: 08/01/78
IN THE "RUNWAY" COLUMN, THE LETTER "H" REFERS TO A HARD-SURFACED OR PAVED LANDING AREA.

PAGE: 37

IN THE "FACILITIES AND SERVICING" COLUMN:
R-RADIO FACILITIES WITH VOICE AVAILABILITY
B-ROTATING CODE LIGHT, BUT GENERALLY SIGNIFIES ROTATING TYPE.
L=FIELD LIGHTING
NO.2=BOUNDARY
3=RUNWAY FLOODS
4=RUNWAY
5=APPROACH
8=VISUAL APPROACH SLOPE INDICATOR

S1-STORAGE

1.9.3 RAILWAYS

1.9.3.1 DESCRIPTION

RAILROADS ARE CONCENTRATED IN THE COASTAL AREAS. BRASILIA IS THE FARTHEST IN-LAND TERMINAL. MUCH OF THE TRACK, INTENDED TO PICK UP AGRICULTURE PRODUCTS, IS RURAL. THE LINES HAVE FIVE DIFFERENT TRACK GAUGES, WITH INTERCONNECTIONS ONLY IN THE VICINITY OF RIO DE JANEIRO AND SAN PAULO. DIFFERING GAUGES ALSO PREVENT CONNECTIONS WITH ARGENTINE AND URUGUAYAN RAILROADS. NEW CONSTRUCTION IN THE 1960'S ATTEMPTED TO JOIN EXISTING RAILROADS INTO A CONTINUOUS NORTH-SOUTH SYSTEM. AT THE END OF 1973 THE FIRST ATLANTIC-TO-PACIFIC TRAIN WENT FROM SANTOS TO ANTOFAGASTA, CHILE. IN 1973 THE FEDERAL GOVERNMENT OWNED 15,400 MILES OF TRACK, DIVIDED INTO 4 REGIONAL SYSTEMS, SUB-DIVIDED INTO 14 DIVISIONS. THE STATE OF SAN PAULO OWNS 6 RAILROADS TOTALLING 84,000 MILES, ONE OF WHICH IS LOCATED IN MINAS GERAIS STATE. SIX SMALL RAILROADS TOTALLING 900 MILES ARE OPERATED PRIVATELY BY AN AUTONOMOUS FEDERAL ENTITY.

IN THE LATE 1960'S LESS THAN 15% OF THE FREIGHT CARRIED WAS BY RAIL. TOTAL TRACKAGE HAS BEEN CONSTANTLY DECLINING. NEARLY 6,000 MILES OF TRACK WERE ABANDONED BETWEEN 1958 AND 1971.

1.9.4 HIGHWAYS

1.9.4.1 DESCRIPTION

IN THE EARLY 1970'S ABOUT 70% OF ALL FREIGHT AND 90% OF ALL PASSENGERS WITHIN THE COUNTRY MOVED ON HIGHWAYS. MOST GOVERNMENT SPENDING ON TRANSPORTATION WENT TO ROADBUILDING. IN LINE WITH EMPHASIS ON RESETTLEMENT AND OPENING UP PREVIOUSLY INACCESSIBLE PARTS OF THE COUNTRY. IN 1972, THERE WERE ABOUT 768,800 MILES OF ROAD (35,750 MILES PAVED), LESS THAN 25% WERE UNDER FEDERAL JURISDICTION, 12% UNDER STATE CONTROL AND THE REST MUNICIPALLY BUILT UNPAVED DIRT ROADS. ABOUT 60% OF THE TOTAL HIGHWAY MILEAGE, IN 1972, WAS IN MINAS GERAIS.

BRAZIL

AS OF: 08/01/78
GUANABARA, SAO PAULO, PARANA AND RIO GRANDE DO SUL.

PAGE: 38

MAJOR HIGHWAYS INTO THE INTERIOR ARE:

- 1) THE BRASILIA - BELEM HIGHWAY
- 2) THE TRANSAMAZON, CONNECTING THE ATLANTIC COAST NEAR RECIFE WITH THE PERUVIAN BORDER SOUTH OF AMAZON. (NEARLY COMPLETE IN 1974)
- 3) A 1,000 MILE HIGHWAY CONNECTING CUIABA IN MATO GROSSO WITH SANTAREM ON THE AMAZON
- 4) A 2,000 MILE HIGHWAY GOING FROM BRASILA TO PORTO VELHO AND THEN NORTH THROUGH MANAUS TO VENEZUELA
- 5) THE NORTHERN PERIMETER ROAD, BEGUN IN MID 1973, IS TO BEGIN IN AMAPA ON THE COAST NORTH OF THE AMAZON, RUN ALONG THE NORTHERN BORDER AND EVENTUALLY CONNECT WITH THE WESTERN TERMINUS OF THE TRANSAMAZON HIGHWAY.

1.9.4.2

STATISTICS
ROAD NETWORK LENGTH

PAVED	42,378KM
GRAVEL AND EARTH	897,235KM

TOTAL	939,613KM(1969)	1,260,330KM(1972)
-------	-----------------	-------------------

VEHICLES (1972)

PASSENGER AND BUSES	2,768,746
TRUCKS	687,201

ROAD DENSITY (KM/KM2)	.110 (1969)
--------------------------	-------------

VEHICLES PER 1000 POPULATION	27.4 (1969)
---------------------------------	-------------

1.9.5 RAIL CARRIERS

1.9.6 AIR CARRIERS

1.9.6.1 DESCRIPTION

THE CENTRAL BRAZIL RAILWAY (2,888KM) JOINS THE RAILWAYS OF BRAZIL WITH THOSE OF URUGUAY, ARGENTINA AND PARAGUAY.

1.9.7 ROAD CARRIERS

1.9.8 COASTAL CARR

BRAZIL

AS OF: 08/01/78

PAGE: 39

1.9.8.1 GENERAL
BRAZIL'S MERCHANT SHIPPING FLEET IS THE LARGEST IN LATIN AMERICA.

1.9.8.2 COMPANIES
COMPANHIA DE NAVEGACAO MARITIMA. NETUMAR, MANAUS. 15 VESSELS. 125,000 TONS DWT; COASTAL TRAFFIC INCLUDING AMAZON REGION. FOREIGN TRADE TO USA AND CANADA, EAST COAST AND GREAT LAKES, ARGENTINA AND URUGUAY.

COMPANHIA DE NAVEGACAO DO RIO SAO FRANCISCO, RIO DE JANEIRO, INCORPORATES 4 PRIVATE COMPANIES OPERATING ON THE SAO FRANCISCO RIVER. 51% OWNED BY THE GOVERNMENT. CARGO SERVICES BETWEEN AMAZON AND EAST COAST OF US AND TO NORTHERN EUROPE. 6 VESSELS OF 25,970 TOTAL GROSS TONNAGE.

LLOYD BRASILEIRO, RIO DE JANEIRO. 40 VESSELS, 350,749 GROSS TONS; 13 VESSELS UNDER CONSTRUCTION (182,100 TONS); OPERATES 20 CHARTERED VESSELS; MAINTAINS PASSENGER AND CARGO SERVICES ALONG THE COAST FROM THE AMAZON TO RIO GRANDE DO SUL; OPERATES BETWEEN BRAZIL, USA, CANADA, NORTHERN EUROPE, SCANDINAVIA, MEDITERRANEAN, EAST AND WEST AFRICA, FAR EAST, ARABIAN GULF, JAPAN, AUSTRALIA AND NEW ZEALAND AND AROUND THE SOUTH AMERICAN COAST THROUGH LLOYD LIBRA. OPERATES WITH PELLETIZED CONTAINERIZED AND FROZEN CARGOES, AS WELL AS WITH GENERAL AND BULK CARGOES. RECENTLY INTRODUCED ROLL-ON/ROLL-OFF SYSTEM.

NAVEGACAO MERCANTIL SA, RIO DE JANEIRO. BRAZILIAN COASTAL SERVICES. BUENOS AIRES, US GULF, MEXICO, CARIBBEAN; WORLD-WIDE BULK SERVICE; 10 SHIPS TALLING 50,940 TONS GROSS; PETROLEO BRASILEIRO SA, RIO DE JANEIRO, TRANSPORTS BULK PETROLEUM PRODUCTS; TANKER FLEET OF 2,059,851 TONS DWT.

1.9.9 OVERFLIGHTS

1.9.9.1 CONSTRAINTS
AIRCRAFT ENTRY REQUIREMENTS

1. PRIVATE FLIGHTS AND NON-SCHEDULED FLIGHTS MAKING NON-COMMERCIAL STOPS OR OVER-FLIGHTS.
 - A. COMMERCIAL ONLY PASSING THROUGH BRAZIL REQUIRE NO AUTHORIZATION
 - B. ON LANDING MUST HAVE A 24-HR PRIOR NOTICE OF DAY HOUR, REGISTRY NUMBER AND TYPE OF AIRCRAFT.
 - C. COPY RECOMMENDED.

BRAZIL

AS OF: 08/01/78

PAGE: 41

RIO DE JANEIRO	-	WASHINGTON	4760
BELEM	-	CARACAS	1518
BELEM	-	MIAMI	2834
BELEM	-	PORT OF SPAIN	1211
BELEM	-	ST. CROIX	1820
BELEM	-	CAYENNE	505
BELEM	-	CURACAO	1689
BELEM	-	GEORGETOWN	866
BELEM	-	POINTE A PITRE	1509

1.9.11 SURFACE MILES

1.9.11.1 SURFACE MILEA

RIO DE JANEIRO	-	BRASILIA	-	1,125 KM
BRASILIA	-	BELO HORIZONTE	-	756 KM
BRASILIA	-	BELEM	-	2,175 KM
BRASILIA	-	RIO BRANCO	-	3,380 KM

VIA CUIABA AND PORTOVELHO

RIO DE JANEIRO	-	SAO PAULO	-	407 KM
RIO DE JANEIRO	-	SALVADOR	-	1,620 KM
PORTO ALEGRE	-	RIO DE JANEIRO	-	1,500 KM

1.10 COMMUNICATION

1.10.1 MEDIA

1.10.1.1 COMMUNICATION

NUMBER OF STATIONS

MEDIUM WAVE	-	800 (50 ARE FM)
SHORT WAVE	-	97
GOVERNMENT OWNED	-	6
NATIONWIDE CHAINS	-	5

RADIO COVERAGE OF THE COUNTRY IS COMPLETE, RANGING FROM 4 STATIONS IN ACRE TO 262 IN SAO PAULO. THE GOVERNMENT REQUISITIONS 1.5 HOURS EVERY NIGHT ON ALL RADIO STATIONS EXCEPT FM, FOR A ONE-HOUR NEWS PROGRAM AND A HALF HOUR ADULT EDUCATION PROGRAM.

RADIO NACIONAL'S SHORT AND MEDIUM WAVE PORTUGUESE BROADCASTS ARE AIMED AT THE AMAZON REGION.

RADIOBRAS, A NEWLY CREATED PUBLIC CORPORATION WHICH WILL

BRAZIL

AS OF: 08/01/78

PAGE: 42

TAKE OVER ALL GOVERNMENT-OWNED RADIO STATIONS, WILL DIRECT PROGRAMMING PRIMARILY TO THE LOW POPULATION AREAS AND THOSE CONSIDERED OF STRATEGIC IMPORTANCE IN THE FRONTIER REGIONS.

1.10.1.2 TELEVISION

NUMBER OF COMMERCIAL STATIONS 63
REPEATER STATIONS IN RURAL AREAS ABOUT 200
NUMBER OF NETWORKS 3
(TUPI, GLOBO AND REDE DE EMISSORAS
INDEPENDENTES)

A MICROWAVE NETWORK HAS BEEN ESTABLISHED BY EMBRATTEL WHICH LINKS ALL OF THE EXISTING TELEVISION STATIONS FROM PORTO ALEGRE IN THE SOUTH TO BELEM IN THE NORTH. IT IS USED FOR SPECIAL TRANSMISSIONS OF NATIONWIDE INTEREST.

NUMBER OF BLACK-AND-WHITE RECEIVERS 9,000,000
NUMBER OF COLOR RECEIVERS 500,000
POTENTIAL VIEWING AUDIENCE ESTIMATED
OVER 45 MILLION

UNIVERSITY TV STATIONS 4
EDUCATIONAL STATIONS 5
(SAO PAULO, RIO, PONTA GROSSA, MANAUS
AND FLORIANOPOLIS)

1.10.1.3 TELECOMMUNICA

MOST OF THE TELECOMMUNICATIONS IN THE COUNTRY ARE OWNED BY THE BRAZILIAN TELECOMMUNICATIONS COMPANY. BY 1972 ALL STATE CAPITALS WERE CONNECTED TO BRASILIA BY TELEPHONE, TELEX AND TELEVISION.

THE BRAZILIAN TELEPHONE COMPANY OPERATES ABOUT 60% OF THE NATIONAL NETWORK AND IS CONSTANTLY ABSORBING SMALLER COMPANIES. IN 1972 THERE WERE ABOUT 900 OTHER TELEPHONE COMPANIES, MOSTLY SMALL AND LOCAL, OVER 2 MILLION TELEPHONES IN USE IN 1972. DIRECT LONG DISTANCE DIALING TO STATE CAPITALS AND MAJOR CITIES WAS POSSIBLE IN 1974, WITH INTERNATIONAL SATELLITE AND CABLE SERVICE AVAILABLE. INTERNATIONAL DIRECT DIALING SCHEDULED FOR 1975

THE DOMESTIC TELEGRAPH SYSTEM, RAPIDLY BEING MODERNIZED, HAS DIRECT TELEPHONIC-TELEGRAPHIC SERVICE BETWEEN 18 CITIES.

1.10.2 CARRIERS

1.10.3 AUDIENCES

1.11 CHECKLIST

1.12 BIBLIOGRAPHY

1.12.1 LIST

BRAZIL

AS OF: 08/01/78

PAGE: 43

- BENN BROTHERS. LTD. PORT OF THE WORLD. LONDON: BENN BROTHERS. 1972.
BRAZILIAN GOVERNMENT. BRAZILIAN EMBASSY. BRAZIL. LONDON: BRAZILIAN EMBASSY. 1976.
ENCYCLOPEDIA BRITANNICA. INC. BRITANNICA BOOK OF THE YEAR 1976. CHICAGO: BRITANNICA. 1976.
EUROPA PUBLICATIONS. LTD. EUROPA YEARBOOK 1975-76. LONDON: EUROPA PUBLICATIONS. 1975.
FODOR. EUGENE ET AL. FODOR'S BRAZIL. NEW YORK: DAVID MCKAY. 1976.
FOOD AND AGRICULTURE ORGANIZATION. FOOD BALANCE SHEETS. ROME: FAO. 1971.
INTERNATIONAL AIR TRANSPORT ASSOCIATION. AIR DISTANCES MANUAL. 3RD ED. LONDON: IATA/INTL. AERADIO LRD., APRIL 1976.
INTERNATIONAL CIVIL AVIATION ORGANIZATION. AIR NAVIGATION PLAN: CARIBBEAN AND SOUTH AMERICA REGIONS. 8TH ED. DOC 8733/8 MONTREAL: ICAO. NOVEMBER 1975.
PAN AMERICAN HEALTH ORGANIZATION. HEALTH CONDITIONS IN THE AMERICAS 1969-72. WASHINGTON, DC: PAHO. 1974.
PAXTON. JOHN. THE STATESMAN'S YEARBOOK. 111TH ED. NEW YORK: ST. MARTIN'S PRESS. 1974.
US GOVERNMENT. AGENCY FOR INTERNATIONAL DEVELOPMENT. AID ECONOMIC DATA BOOK. WASHINGTON, DC: AID/SER/FR/FM UPDATED AS OF SEPTEMBER 1975.
LATIN AMERICAN ECONOMIC GROWTH TRENDS. WASHINGTON, DC: AID. DECEMBER 1975.
CENTRA. INTELLIGENCE AGENCY. REFERENCE AID: CHIEFS OF STATE AND CABINET MEMBERS OF FOREIGN GOVERNMENTS. WASHINGTON, DC: NATIONAL FOREIGN ASSESSMENT CENTER. JUNE 1978.
COMMERCE DEPT. DOMESTIC AND INTERNATIONAL BUSINESS ADMINISTRATION OVERSEAS BUSINESS REPORTS. FEBRUARY 1975. WASHINGTON, DC: GPO. 1975.
COMMERCE DEPT. ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION. CLIMATES OF THE WORLD. WASHINGTON, DC. GPO: 1972.
STATE DEPT. BACKGROUND NOTES: BRAZIL. WASHINGTON, DC: GPO. DECEMBER 1974.
DIPLOMATIC LIST. WASHINGTON, DC: GPO. FEBRUARY 1978.
FACT SHEETS. WASHINGTON, DC: STATE/FADRC. 1976.
KEY OFFICERS OF FOREIGN SERVICE POSTS. WASHINGTON, DC: GPO. MARCH 1978.
TREATIES IN FORCE. WASHINGTON, DC: GPO. JANUARY 1976.
US MISSION-BRASILIA. MISSION DISASTER RELIEF PLAN (MIMEO). BRASILIA: US MISSION. NOVEMBER 1974.
TRANSPORTATION DEPT. FAA. INTERNATIONAL FLIGHT INFORMATION MANUAL. WASHINGTON, DC: NATIONAL FLIGHT DATA CENTER. APRIL 1975.
WEIL. THOMAS E. AREA HANDBOOK FOR BRAZIL. WASHINGTON, DC: GPO. 1974.
WORLD BANK. HEALTH: SECTOR POLICY PAPER. WASHINGTON, DC: WORLD BANK. MARCH 1975.

BRAZIL

AS OF: 08/01/78
NAME UPDATING: JULY 1978

PAGE: 44

OFDA COUNTRY PROFILES: JUNE 1978

-45-

AFGHANISTAN
ANGOLA **
BANGLADESH
BOLIVIA
BRAZIL
BURMA
CHAD
CHILE
DOMINICAN REPUBLIC
ECUADOR
ETHIOPIA
FIJI
GUATEMALA
HAITI
HONDURAS
INDIA
INDONESIA
LEBANON **
MADAGASCAR
MALAYSIA
MALI
MAURITANIA
NICARAGUA
PAKISTAN
PERU
PHILIPPINES
SOMALIA
TONGA
TURKEY
UPPER VOLTA
WESTERN SAMOA
ZAIRE

** OUT OF PRINT

