A REVIEW OF THE

INTERNATIONAL MONETARY ENVIRONMENT

AND

ITS RELEVANCE TO THE AIRLINE INDUSTRY

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TABLE OF CONTENTS

								PAGE
SUN	AMARY A	AND CONCLUSIONS	. ·				•	. 1
	SUMMA	ARY		* 6		8>	•	. 1
	CONCL	USIONS · · · · · · · · · · · · · · · · · · ·	•	• •		e .·	•	. 2
Out	TLINE				e-	80	•	. 4
1.	INSTITU	UTIONAL STRUCTURE						. 5
	1.1	INTRODUCTION						. 5
	1.2	INTERNATIONAL MONETARY FUND					•	. 5
	1.3	DOLLAR GOLD CONVERSION				•	•	. 11
	1.4	WORLD BANK				•	•	. 12
	1.5	SPECIAL DRAWING RIGHTS	•	• . •		•	•	. 13
	1.6	CENTRAL BANKING SYSTEMS		• •	6		•	. 15
	1.7	EURODOLLAR MARKET			•		•	. 18
			•	•		•		. 10
2.	REVIEW	w of the U.S. Balance of Payments 1971						2.5
•	2.0	INTRODUCTION		• •	. •		•	. 26
	2.1	BALANCE OF MERCHANDISE TRADE	•	*. •	٠	2×	**	. 26
	2.2	NET LIQUIDITY BALANCE	•	•		ě.	•	. 28
				• •		•	•	. 29
	2,3	OFFICIAL U.S. RESERVE ASSETS	•	• •	•	•	•	• 32
	2,4	U.S. OFFICIAL SETTLEMENT ACCOUNT		• •	• .		•	- 33
	2.5	ITEMS IN BALANCE OF PAYMENTS TRANSACTIONS	•• 5	• •	•	•	•	• 36
	2.6	SMITHSONIAN ACCORD	• .		•	•	•,	• 37
	2 .7	REVIEW OF CURRENCY REALIGNMENT	•		•	• .	•	. 37
	2.8	U.S. BALANCE OF PAYMENTS DEVELOPMENTS -	1972	. ī .		•		38

TABLE OF CONTENTS (CONTINUED)

					PA	(GE
з.	PROSPE	CTS FOR THE U.S. BALANCE OF PAYMENTS IN 1972	Ca	•	. 5	60
	3.0	INTRODUCTION		•	. 5	5O:
	3.1	Summary of Perspective for Balance of Patments in 1977	2			50
	3.2	MERCHANDISE TRADE	¢.	•		î
	3.3	CURRENT ACCOUNT	•	•	ø. E	3 6
	3.4	THE BASIC BALANCE	g.	€.		54
	3.5	Long Term Capital	m		. E	54
	3.6	NET LIQUIDITY BALANCE	6.	•		56
	3.7	OFFICIAL RESERVE TRANSACTIONS	7.	e n		56
	3.8	SUMMARY	•	•		57
4.	THE IM	PACT OF CURRENCY REALIGNMENT ON THE AIRLINE INDUSTRY				
	4.0	OBJECTIVES	•	* We	. • :	59
	4.1	BACKGROUND		•	• ;	59
	4.2	IMPACT ON TRAFFIC AND AIRLINE REVENUES	•	•		60
	4.3	IMPACT ON IATA	•	•	•	65
5.		OF CURRENCY REALIGNMENT ON THE				
	AIRFR	ME MANUFACTURING INDUSTRY (A300-B PROGRAM)	•	•	•	67
	5.0	INTRODUCTION			•	67
	5.1	COMPARATIVE PRICE CHANGE DUE TO CURRENCY REVALUATIONS			•.	67
	5,2	EXCHANGE RATE VARIATION PRICE INCREASES - A300-B		•	•	68
	5,3	SUMMARY	•	•	•	68
~						

ILLUSTRATIONS

TABLES

PAGE

TABLE 1.1	IMF QUOTA FISCAL YEAR ENDED APRIL 30, 1971 X 10
TABLE 1.2	ALLOCATION OF SPECIAL DRAWING RIGHTS X 1
TABLE 2	Composition of U.S. Moneyany Reserves
TABLE 3	BALANCE OF TRADE - 1979
TABLE 4	NET LIQUIDITY BALANCE SUMMARY, 1971 29
TABLE 5	Movement of Official Reserves Assets 1970 - 1971
TABLE 6	U.S. OFFICIAL RESERVE SETTLEMENTS × 1970 - 1971 · · · · · · · · · · · · · · · · · · ·
TABLE 7	Major Items in U.S. Balance of Payments
TABLE 8	Post-Smithsonian Exchange Rates
TABLE 9 (SERIES OF TABLES)	International Monetary Financial Instruments 43-49
TABLE 10	SUMMARY TABLE - U.S. BALANCE OF PAYMENTS 1970 - 1972
TABLE 11	Effects of Fare Changes on Travel 62
TABLE 12	AIR TRANSPORTATION - SOME ESTIMATED PRICE 63
TABLE 13	EFFECT ON CURRENCY REALIGNMENT ON A300-B PRICE 70
	FIGURES
FIGURE 1	U.S. COMPANIES BORROWING RATES
FIGURE 2	HISTORICAL TRENDS IN MERCHANDISE TRADE BALANCE
	MRU BALANCE UN WERTCIAL TANDACIONS ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

PREFACE

THE PURPOSE OF THIS STUDY IS TO SUPPORT MCDORMELL DOUGLAS CORPORATE ENVIRONMENTAL PLAN BY PROVIDING A REVIEW OF THE COMPLEXITIES OF THE U.S. BALANCE OF PAYMENTS IN THE CONTEXT OF INTERNATIONAL TRADE AND MONETARY RELATIONS. THE MAJOR AREAS OF FOCUS WILL BE: A REVIEW OF THE INSTITUTIONAL FRAMEWORK FOR CONDUCTING INTERNATIONAL MONETARY RELATIONS. THE ROLE OF THE U.S. DOLLAR IN THE WORLD S COMMERCIAL ACTIVITIES, AN ANALYSIS OF THE U.S. BALANGE OF FAYMENTS OUTLOOK, AND THE EFFECTS OF THE RECENT DEVALUATION UPON THE AIRLINE INDUSTRY.

AS SUCH, THE PRESENT DOCUMENT IS PART OF A COMPREHENSIVE SERIES OF MONOGRAPHS
WHICH BRINGS TOGETHER VARIOUS ECONOMIC STUDIES MADE WITHIN THE FRAMEWORK OF THE
MDC ENVIRONMENTAL PLAN. THIS SERIES COMPRISES IN ADDITION TO THIS STUDY:

- *SHORT-TERM OUTLOOK FOR THE U.S. ECONOMY AND ITS
- WHARTON BASED STUDY "LONG-TERM PROSPECTS OF THE U.S. ECONOMY".
- o "Long-term Forecasting Models of the U.S. Domestic and international Traffic and Forecasts to 1980* Plus A Study: "Long-term Forecasts of the Scheduled Domestic Operations of Individual U.S. Carriers".
- THE LONG-TERM OUTLOOK OF THE EARB AIRLINES TRAFFIC".

THIS DOCUMENT WILL BE CONTINUALLY UPDATED BY A SERIES OF MEMOS AS NEW INFORMATION REGARDING THE INTERNATIONAL MONETARY ENVIRONMENT BECOMES AVAILABLE. IT IS HOPED THAT THIS DOCUMENT AND ITS SERIES OF UPDATES CAN SHED SOME LIGHT ON A COMPLEX AND DYNAMIC AREA OF ECONOMIC INVESTIGATION AND, MOST IMPORTANTLY, ASSIST MDC MANAGEMENT IN CORPORATE STRATEGY PLANNING.

SUMMARY AND CONCLUSIONS

SUMMARY

1971 WAS A MAJOR TURNING POINT IN WHAT IS GOING TO BE THE SLOW BUT INEVITABLE DEMISE OF THE BRETTON WOODS' SYSTEM, ESTABLISHED IN 1944. THIS STUDY LOOKED AT THE FUNCTIONING OF THIS SYSTEM AND PARTICULARLY ITS EFFECTS ON INTERNATIONAL LIQUIDITIES AND THE U.S. BALANCE OF PAYMENTS.

IN 1971 THE DEFICIT ON OFFICIAL BALANCES EXCEEDED TWENTY-HINE BILLION DOLLARS AND WAS SYMPTOMATIC OF THE FAILURE OF A SYSTEM OF ARTIFICALLY CONTRIVED EXCHANGE RATES TO ADEQUATELY MEET THE DYNAMIC REQUIREMENTS OF THE INTERNATIONAL MOMETARY SYSTEM.

WHILE THE FLOW OF U.S. DOLLARS, UNDER THE BRETTON WOODS' AGREEMENT, HAS HELPED EXPAND INTERNATIONAL LIQUIDITY AND WAS THUS INSTRUMENTAL IN CATALYSING A LARGE PERCENTAGE OF POST WORLD WAR II INTERNATIONAL TRADE AND FINANCIAL FLOWS, THE OBVIOUS DEPRECIATION OF THE DOLLAR IN MORE RECENT YEARS PLACED CONSIDERABLE STRESS ON INTERNATIONAL MONETARY DEALINGS. THESE STRESSES IN 1971 LED TO THE TERMINATION OF THE OFFICIAL U.S. DOLLAR GOLD CONVERTIBILITY ON 15 AUGUST 1971 AND THE GENERAL CURRENCY REALIGNMENT OF 18 DECEMBER 1971, REACHED AT THE SMITHSOMAN INSTITUTE IN WASHINGTON D.C.

IT WOULD APPEAR THAT IN 1972 THERE WILL BE A SLIGHT REVERSAL IN THE BALANCE OF PAYMENTS DEFICIT, LARGELY DUE TO THE "TEMPORARY" STABILIZATION OF THE EXCHANGE RATES AND SUBSTANTIAL REDUCTION IN SPECULATIVE U.S. CAPITAL OUTFLOWS THAT CHARACTERIZED 1971.

CONCLUSIONS

THE MOST OBVIOUS THREE CONCLUSIONS THAT CAN BE DRAWN FROM THIS STUDY ARE:

- THE CURRENT INSTITUTIONAL STRUCTURE FOR CONDUCTING INTERNATIONAL MONETARY
 TRANSACTIONS WILL UNDERGO FURTHER MODIFICATIONS. IT IS FELT THAT THERE
 WILL BE RECURRING CRISIS SITUATIONS. AS PREVAILED IN 1971. AND THAT A MORE
 MARKET ORIENTED APPROACH TO ESTABLISHING MULTIMATIONAL EXCHANGE HATES
 WILL EMERGE. Thus with further advances in infermational communications
 TECHNOLOGY. AND HENCE THE LOWERING OF INFORMATION COSTS. IT IS ENVISAGED.
 THAT THE WORLD WILL RAPIDLY MOVE TOWARD A SYSTEM OF FREELY FLOATING.
 EXCHANGE RATES. SUCH A SITUATION WOULD FREE NATIONS IN FOREGOING THEIR
 OWN DOMESTIC ECONOMIC GOALS IN THE INTEREST OF EXCHANGE RATE STABILITY.
 AND ELIMINATE INTERNATIONAL BALANCE OF PAYMENTS DISECULLIBRIA.
- 2. THE U.S. WILL CONTINUE TO INCUR A BALANCE OF PAYMENTS DEFICIT, ASSUMING NO FURTHER DRASTIC DEVALUATION OR CHANGE IN THE CURRENT ENVIRONMENT, INTO THE FORESEEABLE FUTURE. BY ADHERING TO THE REMNANTS OF THE BRETTON WOODS' SYSTEM, EVEN AS MODIFIED BY THE SMITHSONIAN AGREEMENT, THE UNITED STATES WILL FACE CONTINUAL PRESSURE UPON ITS INTERNATIONAL CURRENCY EXCHANGE VALUATION AND THUS CONTINUE TO HAVE ITS DOMESTIC POLICY SHACKLED TO ITS EFFORTS TO MAINTAIN A SYSTEM (BRETTON WOODS) THAT HAS SHOWN CONSIDERABLE INADEQUACIES.

Shar

Due to devaluation, the U.S. Will have greater comparative cost advantage in the production of aircraft, especially in the short-run. However, given that the U.S. faces competition from nations who subsidize their aerospace industries, it is doubtful that our privately owned Airframe Manufacturers will be "allowed" to maintain this competitive edge by private means.

In this context we predict a greater participation by the U.S. Government in the development of commerical aerospace products especially for export. Further, the "total cost" (fares and land expenses) of trips to most foreign destinations has become more expensive for U.S. residents.

Conversely, the cost of trips by non-U.S. residents to the U.S. has decreased and the relative intra-U.S. travel for American residents will become comparatively less expensive. For this reason it is forecast that there will be a reallocation in the distribution of international passenger flows.

OUTLINE

THIS PAPER WILL REVIEW THE INTERNATIONAL MONETARY ENVIRONMENT AND ITS RELEVANCE TO THE AIRLINE INDUSTRY. THE PAPER WILL BE DIVIDED INTO FIVE MAIN SECTIONS OR CHAPTERS.

- e Chapter I will review the institutional structure for comoucting international monetary transactions. Particular emphasis in this chapter will be placed on the role of the U.S. dollar in world mometary appairs.
- CHAPTER 2 REVIEWS THE DYNAMICS OF THE U.S. BALANCE OF PRYMERTS
 TRANSACTIONS DURING 1971. THIS CHAPTER ANALYZES THE MOST
 SIGNIFICANT EVENTS OF 1971 THAT PRECIPITATED THE GENERAL CURRENCY
 REALIGNMENT, AND SET THE STAGE FOR A NEW ORDER IN INTERNATIONAL
 MONETARY DEALINGS.
- O CHAPTER 3 CONCERNS ITSELF WITH THE PROSPECTS FOR THE BALANCE OF PAYMENTS IN 1972. THE APPROACH USED WAS TO FORECAST THE DIRECTION AND MAGNITUDE OF THE MAIN ELEMENTS THAT ENTER INTO THE U.S. BALANCE OF PAYMENTS CONSTRUCT.
- O CHAPTER 4 REVIEWS THE POSSIBLE EFFECTS OF DEVALUATION UPON AIRLINE THAPPIC FLOWS AND REVENUES. THE METHODOLOGY UTILIZED IN THIS ANALYSIS WAS BASED ON THE ELASTICITY CONCEPT (FRAVEL DEMAND WITH RESPECT TO PRICE) TO ESTIMATE THE EFFECT OF THE DEVALUATION ON BOTH DOMESTIC AND FOREIGN PASSENGER AND REVENUE PATTERNS.
- CHAPTER 5 DISCUSSES SOME OF THE IMMEDIATE EFFECTS OF DEVALUATION IN THE AIRFRAME MANUFACTURING INDUSTRY. IN THIS CHAPTER THE A300—B PROGRAM IS ANALYZED IN THE CONTEXT OF THE SERIES OF CURRENCY REALIGNMENTS THAT HAVE TAKEN PLACE SINCE 1969 AND THEIR IMPACT ON THE PROGRAM.

INSTITUTIONAL STRUCTURE

1 1 INTRODUCTION

THIS SECTION WILL DESCRIBE THE PREVAILING INTERNATIONAL MONETARY SYSTEM.
HISTORICALLY THE INTERNATIONAL COMMUNITY OF TRADING NATIONS HAS PLACED
ITS FAITH IN DEVELOPING AN INSTITUTIONAL FRAMEWORK FOR CONDUCTING INTERNATIONAL MONETARY RELATIONS RATHER THAN PERMITTING A FREE MARKET
EXCHANGE RATE SYSTEM TO EMERGE. THE RECENT INTERNATIONAL MONETARY
CRISIS APPEARS TO HAVE ACCELERATED THIS DRIVE TO FORMALLY HESTRUCTURE
THE SYSTEM. THE CONTINUING ACCELERATED TO AN INSTITUTIONALIZED SYSTEM
HAS PREVAILED IN SPITE OF RECURRING INTERNATIONAL MONETARY CRISES EVEN
WHEN SUBSTANTIAL EVIDENCE EXISTS TO SUGGEST THAT A SYSTEM OF FIXED
(STRUCTURED) EXCHANGE RATES HAS ACTED AS THE "BACILLL" FOR TRANSMITTING
BUSINESS FLUCTUATIONS BETWEEN NATIONS.

1.2. INTERNATIONAL MONETARY FUND

1.2.1. IMF IN CONTEXT OF INSTITUTIONAL FRAMEWORK

AT THE CORE OF THE SYSTEM, WHICH IS OFTEN REFERRED TO AS THE "BRETTON WOODS SYSTEM," IS THE IMF (INTERNATIONAL MONETARY FUND). THE IMF RESULTED FROM LENGTHY DISCUSSIONS OF SEPARATE AMERICAN, BRITISH, CANADIAN, AND FRENCH PROPOSALS DRAFTED DURING WORLD WAR II. THE TWO MAJOR EMERGING RIVAL PLANS WERE THE BRITISH AND AMERICAN. THEY DIFFERED IN THAT THE BRITISH PLAN PUT MORE EMPHASIS ON NATIONAL MONETARY INDEPENDENCE WHILE THE AMERICAN PLAN PLACED EMPHASIS ON EXCHANGE RATE STABILITY, A SYSTEM SOMEWHAT REMINISCENT OF A RETURN TO THE GOLD STANDARD. THE COMPROMISE FINALLY REACHED CLEARLY RESEMBLED THE AMERICAN PROPOSAL MORE THAN THE BRITISH. WHILE THE IMF IS THE DOMINANT FORCE IN THIS SYSTEM, OTHER SIGNIFICANT ELEMENTS INTERACT TO PRODUCE A COMPLEX DYNAMIC CONSTRUCT FOR SETTLING INTERNATIONAL ACCOUNTS.

SIGNIFICANT AMONG THESE ECONOMIC UNITS ARE THE WORLD BANK, INDIVIDUAL CENTRAL BANKING SYSTEMS, AND THE DEVELOPMENT OF OPEN (SPOT AND FORWARD) MANKETS FOR FOREIGH CUMRENCIES AND GOLD. EACH OF THESE MAJOR COMPONENTS OF THE INTERNATIONAL MONETARY SYSTEM WILL SE DISCUSSED WITHIN THE INSTITUTIONAL CONTEXT.

1.2.2 PURPOSE OF IMF

Accompand to its original Appreles of Agreement, the purposes OF THE INTERNATIONAL MONETANT FUND AND TO PROMOTE INTERnational trade, with the interfion of premoting made levels of employment and real income among nations. The stabilization of exchange rates. And the avoidance of competitive defre-CIATION. IN ADDITION, THE CHARTER OF THE IMPOEMANTS THAT THE Fund concern itself with the development of a maltinational System of Curnent International Payments and the Ellmination OF EXHANGE CONTROLS OVER CURRENT TRANSACTIONS . A FURTHER goal of the IMF as originally conceived was to create economic confidence among member nations and to give them the Opportunity to expeditiously correct balance of payments MALAQUISTMENTS, WHILE AVOIDING THOSE UNILATERAL ECONOMIC MEASURES THAT WOULD IMPINGE ON OTHER MEMBERS NATIONAL AND INTERNATIONAL PROSPERITY. THE ACHIEVEMENT OF THESE GOALS ender the original charter of the BAF tended to de-emphasize THE MARKET HATURE OF THE SYSTEM.

1.2.3. CRITIQUE OF PURPOSES

THE PURPOSES, AS EXPRESSED ABOVE, ARE VAGUE. MORE SPECIFICALLY, THE FUND PROVIDES INTERNATIONAL DRAWING RIGHTS (IN THIS CASE LOANS) ON BASIS OF QUOTAS, TO ASSIST ITS MEMBERS MEET TEMPORARY DEFICITS WITHOUT HAVING TO RESORT TO SUCH ACTIONS AS EXCHANGE CONTROLS, EXCHANGE RATE ADJUSTMENTS, OR HARMFUL DEVALUATIONS.

Under the original charter of the 1MF, member nations are supposed to "Live with" or "ride out" purely temporary deficits. Member nations are not expected to supplement their own reserves, by borrowing from the Fund, to correct chronic imbalances.

IN THIS CONTEXT, WHEN A COUNTRY IS FACED WITH A HOPELESSLY FUNDAMENTAL DISEQUILIBRIUM DUE TO A DEFICIT IN ITS INTERNATIONAL TRANSACTIONS, THE FUND MAY REQUIRE THE COUNTRY TO REMEDY THIS BY DEVALUMBRITS CURRENCY. SYMPTHICALLY, AN OPPOSITE SITUATION OF "FUNDAMENTAL" BALANCE OF PAYMENTS SURPLUS WOULD POSSIBLY CALL FOR THE FUND TO INSIST ON AN UPWARD REVALUATION.

1.2.4 IMF PROCEDURE

Under the original articles of agreement on exchange rates the Bretton Woods system envisaged that each IMF member government would establish a fixed par value for its currency and maintain this central value in the exchange markets with a plus or minus one percent variation. This par value was set with respect to the U.S. dollar. The U.S. would in turn maintain the price of gold at \$35 per ounce. From the inception of Bretton Woods through 1968, the U.S., together with six other member nations of the "gold pool," maintained this dollar gold convertibility rate of \$35.00 per ounce. This system was made operational by the direct market intervention of the Bank of England with the cooperation of the other members of the "pool."

FOR EXAMPLE, THE BANK OF ENGLAND WOULD INCREASE ITS GOLD HOLDINGS WHILE THE OTHER MEMBERS WOULD SHARE IN THESE PURCHASES BY BUYING AN AGREED UPON PERCENTAGE OF THE ACQUIRED

GOLD FROM THE BANK OF ENGLAND WITH AMERICAN DOLLARS. CONVERSELY, WHEN THE BANK OF ENGLAND INTERVENED BY SELLING
GOLD IN THE OPEN MARKET, THE OTHER MEMBERS OF THE "GOLD CLUR"
WOULD ASSIST BY SELLING PART OF THEIR MONETARY GOLD TO THE
BANK OF ENGLAND FOR U.S. DOLLARS. THIS SYSTEM ULTIMATELY
RESTED UPON THE ABILITY OF THE U.S. TO MAINTAIN "REAL" GOLD
CONVERTIBILITY AT THE ESTABLISHED RATE. THE CONDUCTING OF
THE DAY-TO-DAY ACTIVITIES BY THE BANK OF EMELAND, RATHER THAN
THE U.S. FEDERAL RESERVE SYSTEM WAS MOST PROBABLY AN OFFSHOOT OF THE "FED'S" HISTORICAL RELLETANCE TO BECOME INVOLVED.
IN THESE TYPES OF INTERNATIONAL OPEN MARKET OPERATIONS.

1.2.5. LOAN OPERATIONS OF THE FUND

TECHNICALLY THE LOAN OFERATIONS OF THE FUND, FOR SHORT RUN
BALANCE OF PAYMENTS PROBLEMS, CONSIST OF SELLING FOREIGN
CURRENCIES. THE FUND REQUIRES THAT EACH MEMBER MUST CONTRIBUTE TO THE IMF A CAPITAL SUM REFLECTING ITS ECONOMIC
POWER*. While a portion of this must be in Gold, the bulk is
IN ITS HOME CURRENCY COMMONLY IN THE FORM OF BANK DEFOSITS.
THE UNITED STATES PROVIDED 34 PERCENT AND THE UNITED KINGDOM
16 PERCENT OF THE INITIAL CAPITAL. TO COMPENSATE THOSE
NATIONS MAKING A LARGER CONTRIBUTION, ADDITIONAL VOTING POWER
WAS ASSIGNED THEM IN THE POWER STRUCTURE OF THE FUND.

WITH THE EMERGENCY OF NEW NATIONS, AND VARYING RATES OF ECONOMIC GROWTH, THE ÎMF HAS MODIFIED THE QUOTA ALLOCATION.

TABLE 1.1, ILLUSTRATES THIS POINT BY SHOWING QUOTA REALLOCATIONS THAT OCCURED ON MAY 1, 1970.

^{*}THE DEFINITION OF ECONOMIC POWER APPARENTLY BEING LOOSELY INTERPRETED AND HIGHLY SUBJECTIVE.

1.2.6. LOAN MECHANICS

EACH MEMBER NATION 19 REQUIRED TO PAY INTO THE FUND ONE FOURTW
OF ITS ASSIGNED QUOTA IN GOLD OR U.S. DOLLARS AND THE REMAINING
THREE QUARTERS IN ITS NATIONAL CURRENCY. THE IMF THUS HAS
ASSETS CONSISTING OF GOLD, DOLLARS AND A HETEROGENEOUS MIX OF
VARIOUS NATIONAL CURRENCIES. IN THE EVENT THAT A MEMBER
NATION INCURS A DEFICIT IN ITS BALANCE OF FAYMENTS, IT CAN
UTILIZE ITS DRAWING RIGHTS TO REQUEST A SUM OF MONEY IN A
PARTICULAR CURRENCY. A CASE IN POINT WOULD BE WHERE
AUSTRALIA CAN "DRAW" U.S. DOLLARS FROM THE IMP AND THEM
USE THEM TO BUY AUSTRALIAN DOLLARS IN THE EXCHANGE MARKET,
THEREBY COVERING ITS DEFICIT. WHEN A MEMBER NATION HAS
CORRECTED ITS "TEMPORARY" IMBALANCE IT IS EXPECTED TO REVERSE
THE TRANSACTION BY USING FOREIGN EXCHANGE TO REPURCHASE THE
ADDITIONAL AMOUNTS OF ITS OWN CURRENCY PAID TO THE IMF.

As has been stressed before, these loans are designed to be short term in nature, and they are definitely expected to be repaid. Approval for a member to draw beyong the first 25 percent of its quota (slice) depends upon IMF approval.

An interesting development in the framework of the IMF is the recent interest shown by the Soviet Bloc countries and Switzerland to join the IMF. The ramifications of this potential development will not be considered in this text.

TABLE 1.1 IMF QUOTAS FISCAL YEAR - ENDED. APRIL 30, 1971 -

(M MILLIONS OF U.S. DOLLARS)

Member	Quota oa May 1, 1979	New Quotes	Effective Dates of Change	Merringe	Ocota co Map I, 1970s	New Quares	Effective Des of Change
ifgheaistau	29,00	37,00	Dec. 24, 1976	Laca	10.00	13.09	Nov. 27, 197
ifgerie	73,09	130,00	Dec. 21, 1976	Leodina	3.00	1.00	Nov. 10, 199
ifgerie	339,02	440,00	Dec. 22, 1976	Librim	23.00	29.00	Dec. 18, 199
ifgerie	500,00	663,00	Dec. 4, 1970	Libras Acub Bespektin	17.00	24.04 *	Nov. 27, 197
ifgium	422,00	650,00	Dec. 23, 1979	Malayang Bespekting	19.00	26.06	Dec. 1, 197
lolivia	29,09	37.00	Nov. 27, 1976	Malawi	11.25	15.00	Nov. 21, 19
lotawana	3,00	5.00	Dec. 16, 1978	Malaysin	125.08	136.00	Dec. 13, 19
Irazil	350,00	440.00	Nov. 27, 1976	Mali	17.00	22.05	Dec. 23, 19
lurma	48,00	60.00	Nov. 20, 1978	Malin	10.00	16.05	Nov. 27, 19
lurmal	15,00	19.00	Nov. 27, 1970	Mausismin	10.00	11.06	Nov. 27, 19
ameroon	18.20 s	35,00	Dec. 23, 1970	Maurintea	16.09	22.00s	Dec. 27, 19
anada	740.00	1,109,00	Dec. 29, 1970	Mexico	270.03	370.00s	Dec. 33, 19
Izntral African Republic	9.30 s	13,00	Dec. 30, 1970	Morcoso	90.09	113.00s	Dec. 30, 19
Izylon	73.00	98,00	Dec. 10, 1970	Nepal	10.00	10.30s	Apr. 27, 19
Izad	10.00	13,00	Nov. 27, 1976	Neiherlaada	520.09	700.06s	Dec. 22, 19
Trile	125,00	158,00	Dec. 31, 1978	New Zestenes	157,00	202.09	Dec. 13, 19
Colombia	125,00	157,00	Nov. 27, 1976	Nicaragosa	19,00	27.00	Nov. 13, 19
Congo, Democratic Rep. of	90,00	113,00	Nov. 12, 1976	Nigar	10,00	13.00	Nov. 27, 19
Congo, People's Rep. of the	10,00	13,00	Dec. 30, 1976	Nigaria	100,00	135.09	Dec. 8, 19
Costa Rick	23,00	32,00	Nov. 30, 1978	Normay	150,00	240.03	Nov. 27, 19
Typrus	20.00	26.00	Dec. 4, 1976	Pakissan	188,00	235.09	Nov. 27, 19
De bomey	10.00	13.00	Dec. 18, 1970	Ponamo	23.09	36.09	Dec. 22, 19
Denmark	163.00	260.00	Oct. 30, 1970	Poraguayo	15.00	19.00	Dec. 23, 19
Dominicae Republic	32.00	43.00	Oct. 30, 1970	Peru	33.00	123.00	Nov. 27, 15
Scuador	25.00	33.00	Nov. 4, 1970	Philippinos	110.00	155.00	Dec. 10, 19
El Salvador	25, 50	35.00	Dec. 1, 1970	Regarde	15.00-	19.00	Oct., 30, 19
Equatorial Guimma	6, 50	8.00	Dec. 23, 1970	Saudi Ambie	90.00-	134.00	Apr. 15, 19
Etniopia	19, 60	27.00	Oct. 30, 1970	Senegal	25.00-	34.00	Dec., 17, 19
Franca	125, 90	190.00	Dec. 1, 1970	Sierra Laute	15.00-	25.00	Dec., 4, 19
Franca	985, 60	1,500.00	Dec. 14, 1970	Somalia	15.00-	19.00	Nov. 30, 19
Gation Gambin, The Germany Ghane Greece	9,50 * 5,00 1,200,00 69,00 100,00	15.00 7.00 1,600.00 87.00 833.00	Dec. 30, 1970 Dec. 23, 1970 Dec. 24, 1970 Dec. 23, 1970 Dec. 23, 1970 Nov. 10, 1970	Spain Sudan Swazilaad Sweden Syriaa Amb Republic	250.09 57.00 6.00 225.00 38.00	395.09 72.00 8.00 325.00 50.00	Doc. 24, 19 Dec. 16, 19 Dec. 7, 19 Dec. 15, 19 Nov. 30, 19
Guatemalo	25.00	35.00	Oct. 30, 1976	Tanzania	32.00	42.00	Dec. 15, 19
Guioco	19.00	24.00	Dec. 22, 1976	Thailend	93.00	134.00	Dec. 29, 15
Guyana	63.00	20.00	Nov. 22, 1976	Togo	11.25	15.09	Dec. 24, 15
Haiu	15.00	19.00	Dec. 1, 1970	Trinidad and Tobago	44,60	63.09	Nov. 4, 16
Honduras	19.00	25.00	Nov. 27, 1970	Turkey	106.00	151.00	Dec. 23, 15
icziand India Indo nesia Iraq Iraq	15.00 750.00 207.00 125.60 80.00	23.00 940.00 260.00 192.00 109.00	Nov. 4, 1976 Occ. 24, 1976 Nov. 23, 1976 Nov. 12, 1970 Nov. 23, 1976	Ugando United Arab Republic United Kangdom United States Upper Volta	32,00 150,00 2,440,00 3,160,00 10,00	40.00 188.00 2,500.00 6,700.00	Dec. 29, 19 Dec. 29, 11 Nov. 13, 11 Dec. 31, 11 Dec. 16, 11
freland Israel Isaly Ivory Coest Jamasca	80.00 90.00 625.00 19.00 33.00	121,00 130,00 1,000.00 52,00 53,00	Nov. 30, 1970 Nov. 6, 1970 Dec. 21, 1970 Nov. 27, 1970 Dec. 21, 1970	Uruguay Venerusia Viet-Nam Yeman Arab Rapublic Yeman, People's Dam.	55.50 250.00 39.00 8.00 te	69.60 330.00 62.00 * 10.00 **	
Japan Jordan Kenya Khmer Republic Kuwait	721.00 16.00 32.00 19.00 50.00	1,200.00 23.00 48.00 25.00 4	Oct. 30, 1970 Nov. 19, 1970 Dec. 4, 1976 Dec. 29, 1976 Dec. 22, 1970	ब्रेट्स. वर्ष Yugoalavia Zərribia	22.59 50.09 50.08	29.00 207.08 76.00	Dec. 17, 19 Dec. 16, 1 Dec. 23, 1

effective.

18 Quota on May 22, 1970 when the Yemen Arab Republic joined the Fund.

18 Increase under Board of Governors Resolution No. 25-3, as amended by Resolution No. 25-4, effective December 8, 1970.

^{*} Increased to \$19.00 million, effective May 4, 1970, by payment of the fifth and final installment under the Fourth Oxinquennial Review.

* Increased to \$10.00 million, effective May 25, 1970, by payment of the fifth and final installment under the Fourth Oxinquennial Review.

* Initially consented to an increase by installments but gold all five installments at the same time.

* Locrossed to \$10.00 million, effective May 19, 1970, by payment of the fifth and final installments under the Fourth Oxinquennial Review.

* Increase under Board of Governors Resolution No. 25-3, as amended by Resolution No. 25-4, effective June 15, 1970.

* Kuwait consented to a quota of less than the maximum amount listed in the Annex to Resolution No. 25-3, which was \$14.00 million.

* The Libyan Arab Republic consented to a quota of less than the maximum amount listed in the Annex to Resolution No. 25-3, which was \$67.00 millions.

* Nepal has consented to an increase in its quota to \$14.00 million, to be paid in five installments.

Arst installment. Men insument.

Initially consented to an increase in five installments. The first installment was paid, and Viet-Nam's increase in quota to \$43.50 million became effective on December 1, 1970. The four remaining installments were paid on December 8, 1970, at which time the full increase in quota to \$62.00 million became of the four remaining installments were paid on December 8, 1970, at which time the full increase in quota to \$62.00 million became

1.3. DOLLAR GOLD CONVERSION

IN MARCH OF 1968 A "TWO TIER SYSTEM" WAS INTRODUCED. THIS SYSTEM DICHOTOMIZED BETWEEN MONETARY, OR OFFICIAL CENTRAL BANKING GOLD transactions, and the free gold market. In this new setting there was a free gold market price and an official monetary gold "price." THIS LATTER "PRICE" REMAINED AT \$35/OUNCE AND WAS IN FACT NO MORE Than a book exchange value of gold used for oppicial reserve trans-ACTIONS. DURING THIS PERIOD OF "OFFICIAL FREE CONVERTIBILITY." NOW U.S. Official central banks conversions of monetary dollar holdings into GOLD WERE IN FACT AGAINST THE RULES OF "GOOD SCHAVIOR." THIS UNDERscored the reality of the situation that the dollar was, at this time Even. No longer convertible into gold. The international mometary community apparently reacted to this guasi oppicial acknowledgement by rearranging their reserve assets in favor of foreign currency away FROM GOLD (EXPRESSED IN BOOK VALUE TERMS). FOR EXAMPLE, NOW U.S. FOREIGN EXCHANGE HOLDINGS OF OTHER COUNTRIES INCREASED FROM \$27,600 MILLION IN DECEMBER 1967 TO \$53,222 MILLION IN JUNE OF 1971. DURING THIS SAME PERIOD OFFICIAL FOREIGN GOLD HOLDINGS DECREASED FROM \$ 27.440 MILLION TO \$25,973 MILLION.

IN THIS VEIN, THE SMITHSONIAN ACCORD, ARISING OUT OF REGOTIATIONS CONDUCTED IN WASHINGTON OVER THE PERIOD DECEMBER 17-18 BY THE "TENE, AND FOLLOWING THE MONETARY CRISIS ENVIRONMENT OF LATE 1971, RECOGNIZED THE URGENCY OF ESTABLISHING A NEW ORDER FOR INTERNATIONAL MONETARY COOPERATION. AT THIS MEETING, 1972 WAS SET AS A TARGET YEAR IN WHICH TO BEGIN INTENSIVE WORK ON REDESIGNING THE INTERNATIONAL MONETARY STRUCTURE. THE IMMEDIATE CONCRETE ELEMENTS OF THIS AGREEMENT WERE A NEW SET OF CENTRAL EXCHANGE RATES AND A PROVISION FOR WIDER BANDS, WITHIN WHICH "EXCHANGE RATES" WOULD BE FREE TO MOVE + 2.25 PERCENT ABOVE OR BELOW THE NEWLY ESTABLISHED CENTRAL RATES. CONCURRENT WITH THIS ACCORD THE ADMINISTRATION AGREED TO ASK CONGRESS FOR PERMISSION

TO CHANGE THE BOOK VALUE OF GOLD AND IN ADDITION THE U.S. DROPPED ITS 10 PERCENT SURTAX ON IMPORTS. THE EVENTS LEADING UP TO THIS ACTION WILL BE TAKEN UP IN A LATER SECTION.

1.4. WORLD BANK

Another major institutional development after World War II was the establishment of the international Bank for Reconstruction and Redevelopment. This bank is another integral link in the complicated institutional framework that has been superimposed on the world monetary community. No review of the international framework would be complete without reference to the goals and construct of this organization.

WHILE THE IMF HAS PLACED EMPHASIS ON EXCHANGE STABILITY AND NATIONAL LIQUIDITY, THE INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT (COMMONLY CALLED THE WORLD BANK) WAS ESTABLISHED TO PROMOTE LONG-TERM INTERNATIONAL INVESTMENTS. AS WITH THE IMF, THE INTERNATIONAL BANK WAS ENDOWED WITH A CAPITAL SUBSCRIBED BY ITS MEMBERS, TOTALING APPROXIMATELY 8 BILLION U.S. DOLLARS. DURING ITS EARLY INCEPTION THE BANK LOANED MAINLY TO WESTERN EUROFEAN COUNTRIES, HOWEVER, WITH THE RESURGENCE OF ECONOMIC POWER IN EUROPE, THE DEMANG FOR BORROWING FROM THE WORLD BANK HAS COME MAINLY FROM THE DEVELOPING NATIONS.

THE FORMAL CONSTRUCT OF THE WORLD BANK IS THAT MEMBER NATIONS PAY

2 PERCENT OF THEIR QUOTA IN DOLLARS OR GOLD AND 18 PERCENT IN THEIR

DOMESTIC CURRENCY. THE 18 PERCENT PAID IN LOCAL CURRENCY COULD BE USED

ONLY WITH THE CONSENT OF THE COUNTRY INVOLVED, AND THE REMAINING

80 PERCENT WAS SIMPLY A GUARANTEE FUND. WITH THIS BACKING, THE BANK

¹ Congress in April 1972 finally gave the President permission to adjust the "price" of gold to the new vote.

WAS AUTHORIZED TO ISSUE BONDS, AND IN FACT THESE HAVE BEEN THE CHIEF SOURCE OF LOAN FUNDS. LENDING OPERATIONS OF THE WORLD BANK ARE CONSTRAINED IN THAT THE BANK MAY MAKE GUARANTEE LOANS ONLY IF FUNDS ARE NOT AVAILABLE FROM ALTERNATIVE (PRIVATE) SOURCES AT A REASONABLE INTEREST RATE. IN ADDITION, LOANS FROM THE WORLD BANK ARE RESTRICTED FOR SPECIFIC PURPOSES, SUCH AS DAMS, HIGHWAYS, ETC., AND THE LOAN MUST BE GUARANTEED BY THE GOVERNMENT OF THE BORROWING COUNTRY.

1.5. SPECIAL DRAWING RIGHTS

On January 1, 1970 a new element was introduced into the oppicial monetary setting. This was the introduction of Special Drawing Rights (SDRs). The SDR's are oppicially valued at 33 units for cance of gold-SDR's serve two joint purposes (1) as a form of Loan of Last resont and (2) as a reserve currency for nations. The allocation of SDR's, among countries, basically follows the same format of allocating Loan drawing rights among nations. The new articles concerning SDR's (Anticles XXX and XXXI) stipulated that they are absolutely fixed (that is they are not subject to waiver by a decision of the Fund) at 35 units of SDR's per ounce of gold. Thus the SDR's have now appreciated relative to the U.S. dollar. The IMF (See Articles XXX and XXXI) allocates SDRs to a wide range of countries, many of which have not shared in inflows of short-term funcs.

1.5.1. SDR'S AND INTERNATIONAL MONETARY

THE IMF CREATED SPECIAL DRAWING RIGHTS WITH THE EXPLICIT !

PURPOSE OF ADDING TO WORLD LIQUIDITY. WHILE THE PLAN FOR

DEVELOPING THIS NEW FUND BASICALLY FOLLOWS THE OLDER DRAWING

RIGHTS SYSTEM, IT DIFFERS IN A NUMBER OF SIGNIFICANT WAYS.

THE MOST SALIENT BEING THAT ONCE A GIVEN AMOUNT OF SDRS

HAS BEEN CREATED AND "ALLOCATED", A MEMBER HAS THE RIGHT TO DRAW TOTALLY AGAINST HIS ALLOCATION WITHOUT FUND APPROVAL.

THESE RESERVES ARE UNCONDITIONALLY OWNED BY THE MEMBER
COUNTRY, HOWEVER, THERE IS AN UNDERSTANDING THAT MEMBER
NATIONS WILL NOT WISH TO DRAW AGAINST ITS SDR RESERVES

EXCEPT TO COVER A BALANCE OF PAYMENTS DEFICIT. THE MAJOR
ATTRIBUTE OF THIS SCHEME IS THAT OTHER MEMBER NATIONS ARE
OBLIGED TO ACCEPT SDR'S AND TO SUPPLY THE EQUIVALENT AMOUNT
OF CONVERTIBLE CURRENCIES WHEN ASKED TO DO SO. ACTUALLY,
THE SYSTEM IS SO STRUCTURED THAT THE IMP MAY ACT AS AM INTERMEDIANY IN A NATION EXERCISING ITS CALL OF SDRS, WITH THE

1.5.2. Stock of SDR's and implications to international Monetary
Setting

THEREPORE ONCE SDR'S HAVE BEEN CREATED BY THE INTERNATIONAL MONETARY FUND, THEY REMAIN IN EXISTENCE AND THUS COMPRISE A NET ADDITION TO WORLD LIQUIDITY. LIKE ANY OTHER CURRENCY, IF AN SDR IS TRADED IN EXCHANGE IT IS THEN "OWNED" BY THE RECIPIENT NATION. THE CREATION OF NEW SDR'S REQUIRES AN 85 PERCENT MAJORITY OF THE VOTING POWER IN THE IMF. THE BASIS FOR MILLOCATING VOTES AMONG FUND MEMBERS IS APPROXIMATELY PROPORTIONAL TO EACH NATION'S CONTRIBUTION TO THE FUNG. THUS WHILE THE EEC (EUROPEAN ECONOMIC COMMUNITY EXCLUDING THE U.K.*) HAS LITTLE MORE THAN 15 PERCENT OF THE TOTAL VOTING POWER, IT IS ABLE TO EXERCISE A VETO OVER CREATION OF NEW SDR'S. TABLE 1.2 DETAILS THE ALLOCATION OF SDR'S AS OF

^{*} OF COURSE WITH THE ADVENT OF NEW NATIONS INTO THE EEC ESPECIALLY THE UNITED KINGDOM, EEC IN VOTING ON THE CREATION OF NEW SDR'S WILL BE INCREASED.

1.5.3. LIMITATIONS

THE GENERAL ASSESSMENT OF THE IMF IS THAT THE CREATION OF THE SDR'S (OR PAPER GOLD) WILL BE A SIGNIFICANT FACTOR IN INCREASING INTERNATIONAL LIQUIDITY. HOWEVER, IN REVIEWING THE SHORT-LIVED EFFECT OF THE SDRS, THE IMF CAUTIONS THAT THEY CAN ONLY ACT TO RESTORE SHORT-TERM IMBALANCES AND THAT THEY ARE NOT TO BE VIEWED AS A PANACEA FOR STRUCTURAL IMBALANCES.

PERSISTING IN THE WORLD MONETARY COMMUNITY. THE BASIC TREND FOR THE FUND APPEARS TO BE TO ALLOW A GREATER RELIANCE ON EXCHANGE VARIATIONS AND WIDER MARSINS, RATHER THAN ARTIFICIAL INTERVENTION.

1.6. CENTRAL BANKING SYSTEMS

THE MANY NATIONAL CENTRAL BANKING SYSTEMS ARE FUSED INOXERABLY INTO
THE INSTITUTIONAL CONSTRUCT OF THE INTERNATIONAL MONETARY SYSTEM.
BROADLY SPEAKING CENTRAL BANKS PURSUE A JOINT ROLE OF FURTHERING THEIR
NATION'S DOMESTIC AND INTERNATIONAL ECONOMIC GOALS. IN THE REAL WORLD
SITUATION THERE IS NO CLEAR DISTINCTION BETWEEN THESE FUNCTIONS. THIS
IS ESPECIALLY TRUE IN AN ENVIRONMENT CHARACTERIZED BY FRICTIONAL TIME
LAGS AND FIXED EXCHANGE RATES. IN THIS SITUATION THERE OFTEN IS A FEEDBACK BETWEEN A BANK'S DOMESTIC POLICY AND ITS INTERNATIONAL MONETARY GOALS.
A SIMPLE EXAMPLE OF THIS IS WHERE AN EXPANSIONARY DOMESTIC MONETARY
POLICY LEADS TO AN INCREASE IN DOMESTIC GROWTH WITH HIGHER PRICES.

OVER A PERIOD OF TIME THIS POLICY DUE TO A NATION'S HIGHER PRICE LEVEL
AND ARTIFICIALLY CONTRIVED LOWER INTEREST RATES

COULD BRING ABOUT A

DEFICIT ON BOTH CURRENT AND CAPITAL ACCOUNT. IN A WORLD OF FIXED

EXCHANGE RATES NATIONS TEND TO BE ABLE TO EXPORT THEIR DOMESTIC ECONOMIC

"WOES." THIS IS ESPECIALLY THE CASE WHEN THE U.S. IS INVOLVED. A

European nations are endeavoring to close the "gap" from -2.25% to -1%, however, this experiment has been too short-lived to evaluate its secular efficacy.

THIS WOULD BE THE CASE WHERE THE CENTRAL BANK INTERVENED TO KEEP THE INTEREST RATE STRUCTURE LOW. INTEREST RATE DIFFERENTIALS BETWEEN COUNTRIES GENERATE CAPITAL FLOWS (FROM LOW TO HIGH)

TABLE 1.2
ALLOCATIONS OF SPECIAL DRAWING RIGHTS

(in millions of 5085)

			a first michaelt was as	3 OF DUMB!		-	
Participant	Jan. 1. 1970	Jan. 1, C 1971 A	Net umulative illocation	Participant	Jan. 1, 1970	fan. 1, 1971	Net Cumulative Allocation
Afghanistan Algeria Argentina Australia Austria	4 9 12.5 53.3 84.0 29.4	4 0 13.9 47.1 71.2 18.7	8.8 26.5 105.9 153.2 48.1	Korea Laos Lesotho Liberia Luxembourg	8.4 1.7 0.3 3.4 3.2	5.4 1.4 0.5 3.1 2.0	13.8 3.1 1.0 6.5 5.2
Barbados Belgium Bolivia Botswana Brazil	70 9 4.9 .0.3 50.8	1.4 69.6 4.0 0.5 47.1	1.4 140.4 8.8 1.0 103.9	Malagasy Republic Malawa Malaysia Mali Malia	3.2 1.9 21.0 2.9	2.8 1.6 19.9 2.4 1.7	6.0 3.5 40.9 5.2 3.4
Burma Burundi Cameroon Canada Central African Rep.	3.1 2.5 3.1 124.3 1.6	6.4 2.0 3.7 117.7	14.5 4.6 6.8 242.0 3.0	Mauritasies Mauritus Mexico Morocos Nepal	1.7 2.7 45.4 15.1	1.4 2.4 39.6 12.1	3.1 5.0 85.0 27.2 1.1
Ceylon Chad Chile Colombia Congo, Dem. Rep. of	13.1 1.7 21.0 21.0	10.5 1.4 16.9 16.8 12.1	23.6 3.1 37.9 37.8 27.2	Notherheads New Zesland Nicaregues Niges Nigesia	87.4 26.4 3.2 1.7 16.8	74.9 21.6 2.9 1.4 14.4	162.3 48.0 6.1 3.1 31.2
Congo, Prople's Rep. of the Costa Rica Cyprus Dahomey	1.7 4.2 3.4 1.7	1.4 3.4 2.8 1.4	3.1 7.6 6.1 3.1	Norwey Pakistan Panasia Paragusy Peru	25.2 31.6 4.7 2.5 14.3	25.7 25.1 3.9 2.0 13.2	50.9 56.7 8.6 4.6 27.4
Denmark Dominican Republic Ecuador El Salvador Equatorial Guinea	27,4 3,4 4,2 1,0	27.8 4.6 3.5 3.7 0.9	55.2 10.0 7.7 7.9 1.9	Philippians Rwands Senegal Sierra Leone Somelis	16.5 2.5 4.2 2.5 2.5	16.6 2.0 3.6 2.7 2.0	35.1 4.6 7.8 5.2 4.6
Finland France Gabon Gambia, The Germany	21.0 163.5 1.6 0.8 201.6	20.3 160.± 1.6 0.7 171.2	326.0 3.2 1.6 372.8	South Africa Spain Sudan Swaziland Sweden	33.6 42.0 9.6 1.0 37.8	21.4 42.3 7.7 0.9 34.8	55.0 84.3 17.3 1.9 72.6
Ghana Greece Guatemala Guinea Guyana	11.6 14.8 4.2 3.2 2.5	9,3 14,8 3,9 2,6 2,1	20.9 31.6 8.1 5.8 4.7	Syrian Arab Republic Tanzania Thailand Togo Trinidad and Tobago	6.4 5.4 1.9 7.4	5.4 4.5 14.3 1.6 6.7	11.7 9.9 14.3 3.5 14.1
Haiti Honduras Iceland India Indonesia	2.5 2.5 2.5 2.5 2.5 2.5 2.8 0.4	2.0 2.7 2.5 100.6	4.6 5.9 5.0 226.6	Tunisia Turkey Uganda United Arab Republic United Kingdom	5.9 18.1 5.4 25.2 409.9	3.7 16.2 4.3 20.1 299.6	9.6 34.3 9.7 45.3 709.5
Iran Iraq Ireland Israel	13.4 15.1 NO 0	27.8 20.5 11.7 12.9 13.9	62.6 41.5 11.7 26.4 29.0	United States Upper Volta Uruguay Venezuela Viet-Nam	866.9 1.7 9.2 42.0 6.6	716.9 1.4 7.4 35.3 6.6	77.3
Ivory Coast Jamaica Japan Jordan	3.2 6.4 121.8 2.7	107.0 5.6 5.7 128.4 2.5	212.0 8.8 12.1 250.2 5.1	Yemen Arab Republic Yemen, People's Dem. Rep. of Yugoslavia Zambia	3.7 25.2 8.4	3.1 22.1 8.1	6.8 47.3 16.5
Kenya Khmer Republic	3 4 3 2	5.1 2.7	10.5 3.9	Total	3,414.0	2,949.2	6,363.3

¹ The precise amount of the two allocations is SDR 6.363,236,600.

SLOWDOWN IN U.S. ECONOMIC GROWTH HAS A SIGNIFICANT IMPACT UPON ITS MAJOR TRADING PARTNERS, ESPECIALLY IF THEIR EXCHANGE RATES ARE NOT RESPONSIVE TO REAL VARIATIONS IN THE DEMAND FOR U.S. DOLLARS VIS-A-VIS THEIR OWN DOMESTIC CURRENCY.

1.6.1. International Monetay Reserves — Objectives

National Bankine Systems maintain a portfolio of international monetary assets for intervention purposes. Transaction purposes, and liquidity purposes. A glance at the composition of reserves of three countries, as in Table 2. Will serve as an indication as to how France. Germany and Japan, to cite three important examples, structure their reserves for use in international monetary transactions.

TABLE 2
COMPOSITION OF MONETARY RESERVES

August 31, 1971 (in % of total reserve)

NATION	FRANCE	GERMANY	JAPAN
Goub	45.1	24.3	5.4
SDRs AND FUND POSITIONS	9.8	9.0	6.1
FOREIGN EXCHANGE	44.1	66.7	88.5
TOTAL	100.0	100.0	100.0

The following is a brief discussion of how each of the above.

Three objectives are related to the size and composition of a nation's reserves.

1.6.1.1. INTERVENTION PURPOSES: IF A COUNTRY POSSESSES

LARGE INTERNATIONAL MONETARY RESERVES, THEN IT

CAN INTERVENE BY OPEN MARKET TRANSACTIONS TO

REVALUE ITS NATIONAL CURRENCY. IN ADDITION,

DEPENDING UPON THE COMPOSITION OF THESE RESERVES,

NATIONS CAN HAVE VARYING IMPACTS UPON THE TOTAL

MONETARY COMMUNITY. FRANCE'S LARGE GOLD HOLD—

INGS FOR EXAMPLE, RELATIVE TO OTHER RESERVE

ASSETS, ALLOWED IT TO PLAY QUITE A DECISIVE ROLE

IN THE RECENT DECISION OF THE U.S. TO DEVALUE.

- 1.6.1.2. Transaction Purposes: This repers to those operating balances needed by a mayion to carry on day to day international capital and current account transactions. This is analogous to what accountants reper to as operating capital for business enterprises.
- 1.6.1.3. Liquidity Reserve: Besides being a "Weapon"

 FOR INTERVENTION AND TRANSACTION PURPOSES,

 UNNECESSARY LIQUIDITY RESERVES TEND TO REFLECT

 A PSEUDO MERCANTILIST APPROACH TO ACQUIRING

 POWER OVER FOREIGN CAPITAL.

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1.7. EURODOLLAR MARKET

1.7.1. INTRODUCTION

THE EUROCOLLAR HAS BECOME A SIGNIFICANT FACTOR IN THE CONTEXT OF INTERNATIONAL MONETARY RELATIONS. This section will touch upon the nature and influence of this "relatively" new phenomenon. In Its 34 th Annual Report (1963–1964) the Bank for international Settlements Defines a Eurocollar "... As a dollar that has been acquired by a bank outside the United States and used directly or after conversion into Another currency for Lending to a non-bank customer.

15

PERHAPS AFTER OME OR MORE REDEPOSITS FROM ONE BANK TO ANOTHER

THE BANK THEM EXPANOS THIS DEFINITION IN SUCH A MANNER AS TO

LEAVE IT QUITE UNCLEAR WHAT SPECIFIC TERM. IF ANY, THE PHRASE

EURODOLLAR ACTUALLY REFERS TO.

YELAND YEAGER IN HIS TEXT INTERNATIONAL MONETARY RELATIONS

(P. 467) ADDS TO THIS CONFUSION BY STATING: "THE TERM EURO—

DOLLAR IS HARD TO DEFINE BECAUSE IT SO OFFEN SERVES AS A

LOOSE LABEL RATHER THAN AS THE NAME OF A SPECIFIC ASSET OF

LIABILITY." HOWEVER, YEAGER GOES ON TO ADD TWAT IN THE

STRICTEST SENSE A EUROSSELAR". . . IS A SHORT TERM DEPOSIT

HELD WITH A EUROPEAN BANK BUT EXPRESSED IN U.S. DOLLARS

INSTEAD OF THE LOCAL CURRENCY." IT SHOULD BE NOTED THAT THIS SYSTEM

IS NOT CONSTRAINED TO U.S. DOLLARS NOW CONFINED TO EUROPE.

1.7.2 Concentration of Europollar Market

THE EURODOLLAR MARKET IS MAINLY CONCENTRATED IN EUROPE AND AND THE MAJOR EURO CURRENCY IS THE AMERICAN DOLLAR. IN EFFECT THE BANKING SYSTEMS OF THE LARGER WESTERN EUROPEAN COUNTRIES ARE TO A LARGE DEGREE "JOBBERS" OF EURODOLLARS.

THEY DO THIS BY RELENDING AQUIRED EURODOLLARS TO BORROWERS OUTSIDE OF THEIR COUNTRIES. AFTER 1960 THE SIZE OF THE EURODOLLAR MARKET BEGAN TO GREATLY EXPAND. WHENEVER EURODOLLARS WERE SHIFTED OUT OF DOMESTIC USE AND PLACED ABROAD AS EURODOLLARS, OR WHEN EURODOLLARS ACQUIRED ABROAD WERE SHIFTED TO DOMESTIC USE, AN INTERNATIONAL CAPITAL FLOW RESULTED THAT WAS RECORDED IN THE BALANCE OF PAYMENTS OF THE COUNTRY(IES) IN QUESTION. THIS MOVEMENT HAS THE EFFECT OF INCREASING OR DECREASING A PARTICULAR COUNTRY'S OFFICIAL RESERVES (AND LIQUIDITY).

1.7.3. DETERMINANTS OF EUROCOLLAR MOVEMENTS

A STUDY BY RODNEY H. MILLS, JR. OF THE DIVISION OF INTERNATIONAL FINANCE, BOARD OF GOVERNORS OF THE FEDERAL RESERVE
SYSTEM SUGGESTS THAT EURODOLLAR CAPITAL FLOWS ARE HIGHLY
DEPENDENT UPON (1) THE AVERAGE COVERED DIFFERENTIAL BETWEEN
THE 3 MONTH EURODOLLAR DEPOSIT RATE AND THE DOMESTIC MONEY
MARKET. AND (2) THE PERCENTAGE CHANGE IN THE VOLUME OF BANK
LOANS TO PRIVATE DOMESTIC BORROWERS. MILLS RECOGNIZES THAT
OTHER DETERMINANTS, INDIGENEOUS TO A PARTICULAR NATION CAN
ALSO BE HIGHLY EXPLANATORY OF EURODOLLAR FLOWS.

FRATIANNI-SAVONA MODEL OF EURO-BOLLAR MARKET

IN THIS CONTEXT, MICHELLE FRATIANNI AND PAOLO SAVORA PRESENT

A MODEL OF THE INTERNATIONAL MONETARY BASE AND EURODOLLAR

MARKET: AN ECONOMETRIC MODEL. THEY DEVELOP A MODEL

WITH 24 VARIABLES (SIX ENDOGENOUS, AND EIGHTEEN POLICY AND

EXOGENOUS) AND SIX EQUATIONS WHICH ARE INTERDED TO EXPLAIN

SIMULTANEOUSLY THE SOURCES AND USES OF THE INTERNATIONAL

MONEY BASE AND THE EURODOLLAR MARKET (EDM). THIS MODEL

IS SUMMARIZED IN THE APPENDIX TO CHAPTER 1.

1.7.4 U.S. MOMETARY MANAGEMENT AND THE EURODOLLAR MARKET

AS THE SIZE OF THE EURODOLLAR MARKET INCREASES IT BECOMES

MORE DIFFICULT FOR THE 'FED' TO MANAGE THE U.S. DOMESTIC

MONETARY SUPPLY. FOR EXAMPLE, SHOULD THE U.S. FEDERAL

RESERVE SYSTEM INSTITUTE A STRINGENT MONETARY POLICY TO

ACHIEVE A DOMESTIC GOAL, SUCH A POLICY COULD BE DILLITED TO

SOME EXTENT BY AN INFLOW OF U.S. DOLLARS FROM THE EURO
DOLLAR MARKET. THE DEGREE TO WHICH THE EURODOLLAR MARKET

AFFECTS U.S. MONETARY POLICY IS TO SOME EXTENT A FUNCTION OF THE PATIO OF THE DOMESTIC MONEY SUPPLY TO OUTSTANDING EURODOLLARS. TO SOME EXTENT, IN THE CASE OF A STRINGENY DOMESTIC MONETARY POLICY THIS RATIO WOULD INCREASE AND THEREFORE BE PERVERSE FROM A POLICY POINT OF VIEW. FIGURE 1, ILLUSTRATES THE SPREAD ON THE INTERNATIONAL BOND MARKET FOR U.S. COMPANIES.

FOR THE EURODOLLAR POOL TO INFLUENCE THE U.S. MONEY SUPPLY IT MUST BY DEFINITION BE A SUBSTANTIAL RATIO TO THE U.S. MONEY SUPPLY. HOWEVER. AS NOTED IN THE TEXT, INTEREST DIFFERENTIALS, U.S. INVESTMENT OPPORTUNITIES, INTERNATIONAL MONETARY STABILITY, ETC. ALL INFLUENCE CAPITAL (EURODOLLARS) FLOWS.

U.S. companies' borrowing rates

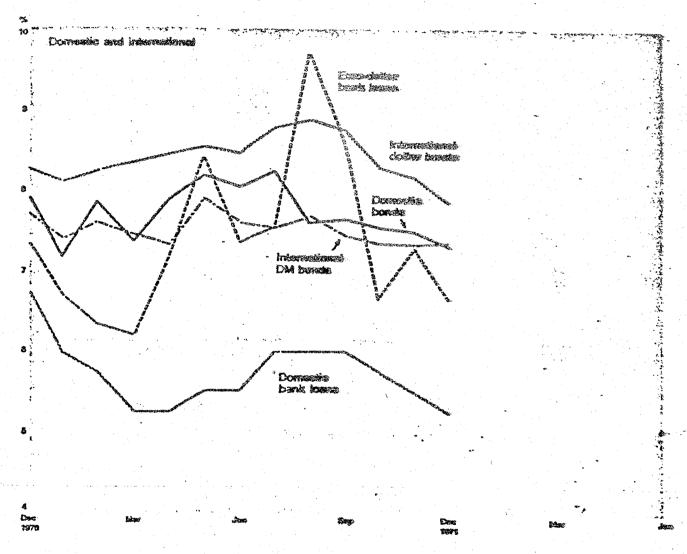


FIGURE 1

APPENDIX I FRATIANNI-SAVONA MODEL OF EURODOLLAR MARKET

LIST OF ENDOGENOUS VARIABLES (DENOTES FIRST DIFFERENCES):

IMB^b = international monetary base held by the banking system

IMB = INTERNATIONAL MONETARY BASE HELD BY THE PUBLIC

CREU = EARNING ASSETS OF EUROBANAS IN NONCOMESTIC CURRENCY TO

HOHBANK CLIENTELE

DEU = EUROCOLLAR DEPOSITS

ideu = rate on Deu

CREU = RATE ON CREU

LIST OF POLICY AND EXOGENOUS VARIABLES:

G = WORLD IMB GOLD STOCK MET OF IMF HOLDINGS

FPOS = IMF GOLD TRANCHE POSITION PLUS CREDITS GRANTED TO THE

ENTIRE COMMUNITY OF MEMBER COUNTRIES

CL = CREDIT LINES IN DOLLARS OF CENTRAL BANKS WITH THE FRS PLUS

CREDIT LINES, NOT IN DOLLARS, WITH OTHER CENTRAL BANKS

OC = OTHER CURRENCIES USED AS IMB

IMBUSB = BALANCE-OF-PAYMENTS DISEQUILIBRIUM OF THE U.S. MEASURED ON

AN IMB BASIS (DEFINED IN SECTION 1,2,)

SDR = SPECIAL DRAWING RIGHTS

IMB = INTERNATIONAL MONETARY BASE HELD BY CENTRAL BANKS

X = INDEX OF WORLD TRADE

BUSA = YIELD ON U.S. LONG-TERM ASSETS

ÎBEU = YIELD ON EUROBONDS

IMBP = YIELD ON IMB

E = EXPECTED CAPITAL GAIN ON PRIVATE HOLDINGS OF GOLD

APPENDIX I FRATIANNI-SAVONA MODEL OF EURODOLLAR MARKET (CONTINUED)

idusa = Yield on demand deposts nonresidents maintain with the U.S. Sanking system

itusa = same as above with respect to time deposits

crusb = dollar loans to U.S. commercial banks

causd = current account disequilibria of the U.S. Balance of Payments

icr = index of credit market rates in the countries which operate in the Europollar market

icp - i = differential between the yield of commercial paper in the

THE MODEL CONSISTS OF THE FOLLOWING SIX EQUATIONS.

REGULATION Q

- SOURCES AND USES OF THE INTERNATIONAL MONETARY BASE
- 1. $\Delta G + \Delta FPOS + \Delta CL + \Delta OC + IMBUSB + \Delta SDR = \Delta IMB^{Cd} + \Delta IMB^{D} + \Delta IMB^{D}$

U.S. AND THE MAXIMUM DEPOSIT RATE ALLOWED UNDER

- 9 DEMAND FOR IME :
- 2. $\triangle IMB^p = f^d(i_{DEU}; i_{IMBP}, \triangle x^i, i_{BUSA}, i_{BEU}, i_g)$

In the f^d function, as in those which follow, the endogenous variables are separated from the exogenous variables by a semicolon. The sign of the partial derivatives of the f^d function are:

$$f_j^d > 0 (j = 2.3); f_k^d < 0 (k = 1.4.5.6)$$

- 9 CONSOLIDATION OF THE EURODOLLAR PORTION OF THE BALANCE SHEETS OF ALL BANKS WHICH OPERATE IN THE EDM:
- 3. $\triangle \text{ IMB}^b + \triangle \text{CRUSB} + \triangle \text{CREU} = \triangle \text{DEU}$
- DEMAND FOR EURODOLLAR LOAMS BY NONBANK CLIENTELE:

APPENDIX I

4.
$$\triangle CREU = g^d(i_{CREU}; \triangle x^i, CAUSD, i_{BEU}, i_{CRi})$$

 $g^d_i > o (j = 2,3,4,5); g^d_k < o (k = 1)$

- BANKS' SUPPLY OF EURODOLLAR LOAMS TO HONBARK CLIENTELE:
- 5. $\triangle CREU = g^{S} (i_{CREU}, \triangle MB^{h}; i_{TUSA}, i_{CP} i_{q})$ $g_{j}^{S} > o (j = 1,2); g_{k}^{S} < o (k = 3,4)$
- THE YIELD ON EURODOLLAR DEPOSITS:
- 6. $i_{DEU} = h^{S}(i_{CREU}; i_{CRI})$

$$h_{j}^{S} > 0 (j = 1,2)$$

2. REVIEW OF THE U.S. BALANCE OF PAYMENTS 1971

2.0 INTRODUCTION

1971 WAS A PIVOTAL YEAR IN THE MONETARY HISTORY OF THE UNITED STATES. IT WAS THE YEAR IN WHICH THE DOLLAR SUCCUMBED TO THE VICISSITUDES OF THE MARKET AND RELINQUISHED ITS POSITION AS "THE" WORLD CURRENCY. THIS CHAPTER WILL LOOK AT THE MAJOR ITEMS THAT LED TO THE RECORD 1971 DEPICIT IN THE U.S. BALANCE-OF-PAYMENTS, A DEFICIT THAT FINALLY PRECIPATED THE DEVALUATION OF THE DOLLAR. THE OFFICIAL SETTLEMENT FOR 1971 WAS \$29.7 BILLION, ABOUT THREE TIMES THE DEPICIT RECORDED FOR 1970 (SEE TABLE 7, LINE 31). THE INCREASE IN THE OFFICIAL SETTLEMENTS DEFICIT OF \$20 BILLION DOLLARS WAS DUE TO A LARGE RISE IN THE DEPICIT ON CURRENT ACCOUNT, LONG-TERM CAPITAL TRANSACTIONS AND MASSIVE SPECULATIVE CAPITAL. OUTFLOWS FROM THE UNITED STATES.

THE DEFICIT CONTINUED TO GROW EVEN AFTER THE ANNOUNCEMENT OF THE
EMERGENCY MEASURES TAKEN WITHIN THE FRAMEWORK OF THE NEW ECONOMIC
POLICY (AUGUST 15). THIS WAS CAUSED PRIMARILY BY SPECULATIVE PRESSURES
ON THE DOLLAR IN ANTICIPATION OF A WORLD-WIDE CURRENCY REALIGNMENT.
TOWARD THE END OF 1971 THE DEFICIT STARTED TO TAPER OFF SOMEWHAT AS A
CURRENCY AGREEMENT APPEARED IMMINENT. THE NET LIQUIDITY BALANCE, WHICH
PURPORTS TO MEASURE CHANGES IN U.S. RESERVE ASSETS (TABLE 5) AND IN
PRIVATE AND OFFICIAL NET LIQUID CLAIMS ON THEM, WAS IN DEFICIT BY APPROXIMATELY \$22 BILLION IN 1971 (REFERENCE TABLE 7). ECONOMISTS TODAY ARE
PLACING LESS SIGNIFICANCE ON THIS ACCOUNT AS A GUIDE TO POLICY, AND ARE
LOOKING MORE TO THE SECULAR TREND ON THE OFFICIAL—SETTLEMENTS BASIS.

1971 SAW A FURTHER DETERIORATION IN THE U.S. OFFICIAL RESERVE ASSETS BY \$2.4 BILLION (REFERENCE TABLE 5). U.S. RESERVE ASSETS STOOD AT \$12.1 BILLIONS IN DECEMBER OF 1971, WHILE U.S. LIABILITIES TO FOREIGN OFFICIAL INSTITUTIONS INCREASED BY MORE THAN \$29 BILLION. TO AN ESTIMATED \$52.5

BILLION. ABOUT \$45 BILLION OF THIS DEBT IS IN THE FORM OF U.S. GOVERNMENT OBLIGATIONS. THE INCREASE IN THE DEBT WAS SYMPTOMATIC OF THE STRESS THAT THE DOLLAR WAS HAVING IN MAINTAINING ITS EXCHANGE PARITY UNDER THE BRETTOM WOODS SYSTEM.

THE BASIC BALANCE, WHICH INCLUDES THE BALANCE ON CURRENT ACCOUNT AND LONG-TERM CAPITAL TRANSACTIONS, HAD A DEPICIT OF APPROXIMATELY \$10 BILLION IN 1971. THIS COMPARED WITH AN AVERAGE DEFICIT ON THIS ACCOUNT OF \$2.5 BILLION FOR THE YEARS 1966 THROUGH 1970. THE DECREASE IN INTEREST RATES IN THE U.S. DURING 1971 RESALTED IN: (1) THE STOCK MARKET BEGAN TO PICK UP IN ANTICIPATION OF A U.S. ECONOMIC RECOVERY. THIS SLOWED DOWN TO SOME EXTENT NET PORTFOLIO INVESTMENTS SEEKING FOREIGN CAPITAL GAINS AND (2) THE LOWER DOMESTIC RATES CAUSED INTEREST SENSITIVE FUNDS TO FLOW FROM THE U.S. INTO THE FOREIGN MARKETS WHERE THE INTEREST RATES WERE HIGHER.

THE FOLLOWING DISCUSSION PROVIDES A MORE DETAILED ANALYSIS OF THE MAJOR ITEMS THAT ENTER INTO THE BALANCE-OF-PAYMENTS CASH FLOW FOR 1971.

TABLE 3
1971 BALANCE OF TRADE
(BILLION)

	1971	1971.1	1971.2	1971.3	1971.4
MERCHANOISE TRADE EXPORTS IMPORTS	-\$ 2.8\$ \$42.76 -\$45.65	\$ 0.40 \$10.90 -\$10.48	-\$.80 \$11.17 -\$12.01	-\$ 1.12 \$10.73 -\$11.86	-\$ 1.35 ÷ \$ 9.96 -\$11.31
OTHER GOODS AND SERVICES (NET)	\$3,578	\$ 1.10	\$ 1.10	-\$.20	\$ 1.60
BALANCE ON GOODS AND SERVICES	-\$.01	\$ 1.50	\$ 0.20	-\$ 1.30	-\$ 0.30

2.1. BALANCE OF MERCHANDISE TRADE

DURING 1971, THE BALANCE OF MERCHANDISE TRADE DETERIORATED AND WAS IN DEFICIT BY \$2.8% BILLION, AS COMPARED TO A SUPPLUS OF \$2.41 BILLION IN 20.000 THIS DETERIORATION WAS THE REFLECTION OF A 13.5 PERCENT INCREASE IN IMPORTS, ACCOMPANIED BY ONLY A 1.5 PERCENT INCREASE IN EXPORTS.

The rate of increase in the vollime of exports, however, did exceed the increase in the value of exports. Correlatively, the unit price of exports declined.

WHILE ACTUAL AND POTENTIAL STRINES, PARTICULARLY THE PROLORGED DOCK
STRIKE, DISTORTED THE CHARTERLY TRADE FIGURES, THE ADVERSE THEND IN TRADE
WAS LARGELY RELATED TO THE WORLD WIDE EUSINESS CYCLE VARIATIOND. IN

1971, THE U.S. WAS EXPERIENCING A MILD RECOVERY IN AGGREGATE REAL ECONOMIC
ACTIVITY WITH MO EASING OF PRESSURE ON U.S. EXPORT PRICES RELATIVE TO
COMPETITORS. CONCOMITANT WITH THE U.S. RECOVERY MANY MAJOR U.S.
TRADING PARTNERS WERE UNDERGOING A RELATIVE DECLINE IN BUSINESS ACTIVITY.

THIS SLACKENING IN FOREIGN ECONOMIC GROWTH HAD AN ADVERSE EFFECT ON THE

U.S. BALANCE OF TRADE SITUATION SINCE U.S. DEMAND FOR IMPORT—COMPETITIVE
GOODS WAS INCREASING WHILE AGGREGATE FOREIGN DEMAND, ESPECIALLY IN
WESTERN EUROPE AND JAPAN, WAS DECREASING. THIS HAD THE EFFECT OF
PERPETUATING THE RELATIVE PRICE ADVANTAGE OF FOREIGN EXPORTERS TO THE

U.S. CONSEQUENTLY THIS DIFFERENTIAL MARGINAL GROWTH IN U.S. AND FOREIGN
BUSINESS ACTIVITY TENDED TO WEAKEN THE ADVANTAGE FROM THE DE FACTO

DEVALUATION (DEPRECIATION) OF THE DOLLAR IN THE LATTER MONTHS OF 1971.

BY THE THIRD QUARTER OF 1971 U.S. EXPORT PRICES, USING AN INDEX OF 100 FOR 1963, HAD RISEN TO 124, WHILE THE SAME INDEX FOR "OTHER DEVELOPED NATIONS" REACHED 120. THESE INFLATIONARY CONDITIONS UNDOUBTEDLY HAD A DETRIMENTAL EFFECT ON THE U.S. BALANCE OF TRADE. IN THIS VEIN, HOWEVER, IT SHOULD BE NOTED THAT THE RATE OF INCREASE IN U.S. PRICES DURING 1971 WAS SLIGHTLY LOWER THAN IN MOST EUROPEAN NATIONS.

2.2 NET LIQUIDITY BALANCE

TABLE 4
NET LIQUIDITY BALANCE
(BILLIONS)

	ANA	UAL	1970	merchanis and an artist of the state of the	19	71	
CREDITS (+): DEBITS (-)	1970	1971	IV		11	111	IV
1. MERCHANDISE	2.659	-12,847	7				
TRADE BALANCE	2.110	-2.879	.288	.425	843	-1.117	-1.344
2. OTHER GOODS AND							
SERVICES, NET	1.480	3.578	1.061	1.088	1.071	- 124	1.594
3. BALANCE ON							the second
GOODS AND SERVICES	3.592	0.699	1.349	1.513	228	-1.291	.250
4. Nonscheduled							
REPAYMENTS OF U.S.							
GOVT. CREDITS2	.244	.225	.040	-004	. 102	.072	.048
5. TRANSACTIONS IN							
FOREIGN SECURITIES.							
NET, U.S. PURCHASES (-)	942	910	337	353	388	248	.79
6. TRANSACTION IN U.S.							
SECURITIES OTHER THAN							
TREASURY ISSUED, NET	2.190	2.251	.792	.559	. 196	.582	.914
7. Nonliquid CAPITAL					•		
FLOWS REPORTED BY U.S.					* .		
BANKS, NET	816	-2.644	786	22	613	785	-1.224
8. ALLOCATIONS OF SPECIAL	•						
DRAWING RIGHTS (SDR)	.867	717	Emb.	•717·	dara.	#430	
•		, . ,	•	*/ +/			
9. ERRORS AND OMISSIONS	50 AW 40	20 7					
AND OTHER TRANSACTIONS	-6.95 6	-22.787	-1.210	-4.265	-6.123	-8.413	-3.512

THE NET LIQUIDITY BALANCE AS ILLUSTRATED IN TABLE 4 IS MADE UP OF THE FOLLOWING MAJOR ITEMS: (1) THE MERCHANDISE TRADE BALANCE. (2) OTHER GOODS AND SERVICES.

(4) NON-SCHEDULED REPAYMENT OF U.S. GOVERNMENT CREDITS. (5) TRANSACTIONS IN FOREIGN SECURITIES, NET. U.S. PURCHASES, (6) TRANSACTIONS IN U.S.

SECURITIES OTHER THAN TREASURY UNITS. NET. (7) NONLIQUID CAPITAL FLOWS REPORTED BY U.S. BANKS, NET. (8) ALLOCATION OF SPECIAL DRAWING RIGHTS (SDR) AND (9) ERRORS AND OMISSIONS AND OTHER TRANSACTIONS.

THE DEFICIT OF \$21.97 BILLION IN 1971 ON THE NET LIQUIDITY BALANCE UNDERSCORES THE PRESSURES WHICH MOUNTED AGAINST THE DOLLAR DURING THIS PERIOD.

THE QUARTERLY DEFICITS ON THIS ACCOUNT IN 1971 WERE \$1.8 BILLION, \$6.6

BILLION, \$10.1 BILLION, AND \$3.5 BILLION. THE DETERIORATION OF THE

LIDUIDITY BALANCE WAS PRINCIPALLY DUE TO A BUILDUP OF SPECULATIVE CAPITAL.

OUTFLOWS IN NON-LIQUID SWORT-TERM BANK CLAIMS ON FOREIGNERS. OF GREAT

IMPORTANCE WAS THE SUBSTANTIAL INCREASE IN THE HONQUARTIFIABLE ACCOUNT.

"ERRORS AND OMISSIONS AND OTHER TRANSACTIONS". THESE UNRECORDED

OUTFLOWS, WHICH IN 1971 TOTALED 22.31 BILLION, INCLUDED U.S. TRANSFERS

INTO EURODOLLARS, SPECULATIVE PURCHASES OF FOREIGN CURRENCIES. THE

EFFECT OF LEADS AND LAGS IN THE PAYMENTS AND RECEIPT OF CURRENCIES.

DURING 1971, LONG-TERM CAPITAL OUTFLOWS, PARTICULARLY U.S. DIRECT FOREIGN INVESTMENTS, INCREASED SHARPLY. THE SINGLE MOST IMPORTANT IMPETUS TO ALL FORMS OF U.S. CAPITAL OUTFLOWS WAS THE GENERAL EXPECTATION OF AN IMMINENT DOLLAR DEVALUATION. THIS WAS ESPECIALLY TRUE DURING THE HIGHLY SPECULATIVE THIRD QUARTER OF 1971. IN THIS ENVIRONMENT THE UNDERLYING REASON FOR MANY OF THESE CUTFLOWS WAS TO AVOID ANY WEALTH LOSS, EXPLICIT OR IMPLICIT, BY HOLDING ASSETS IN U.S. DOLLARS RELATIVE TO WEALTH HELD IN CURRENCIES THAT WERE EXPECTED TO APPRECIATE AGAINST THE DOLLAR.

2.2.1 U.S. MULTINATIONAL COMPANIES INCREASED THEIR DIRECT FOREIGN INVESTMENT BY \$5.5 BILLION (UP FROM \$4.5 BILLION IN 1970). THE ADVANTAGE OF THESE ESCALATED INVESTMENT PROGRAMS, PRIOR TO DEVALUATION, WAS THE ABILITY OF THE DOLLAR TO COMMAND MORE GOODS AND SERVICES ABROAD.

- 2.2.2 U.S. LONG-TERM FOREIGN LENDING BY U.S. BANKS INCREASED BY

 APPROXIMATELY \$800 MILLION. THE DEMAND FOR THESE LONG TERM

 LOANS TO FINANCE NON-SPECULATIVE, RELATIVELY NON-LIQUID ASSETS.

 APPEARS TO HAVE ALSO BEEN STIMULATED BY EXPECTED WEALTH GAIN

 (OR LOSS AVOIDANCE) FROM DEVALUATION.
- 2.2.3. In the same context, U.S. Foreign portfolio purchases increases while foreign portfolio investments in the U.S. Decreased. The net decrease in portfolio flows was \$500 million (from \$1.2 billion in 1970 to \$0.7 billion in 1971).
- 2.2.4. U.S. NET SHORT TERM CAPITAL CUFFLOWS TO FOREIGN COUNTRIES IN

 1971 AMOUNTED TO \$20 BILLION. OF THIS AMOUNT \$8.0 BILLION

 APPEARED TO BE SENSITIVE TO INTEREST DIFFERENTIALS BETWEEN THE

 U.S. AND FOREIGN CAPITAL MARKETS. IN 1971 THE INTEREST RATES

 IN THE U.S. WERE LOWER THAN IN MOST OTHER LEADING TRADING

 NATIONS. THESE INTEREST DIFFERENTIALS (SEE TABLE 9) OF 1971

 PROMPTED SHORT TERM CAPITAL OUTFLOWS FROM THE U.S. THIS WAS

 A REVERSAL OF THE SITUATION OF 1968—69 WHERE HIGHER U.S.

 INTEREST RATES CAUSED FOREIGN SHORT—TERM CAPITAL INFLOWS INTO

 THE U.S.

TABLE 9 PRESENTS A REVIEW OF THE INTERNATIONAL MOMETARY

MARKETS. THESE ITEMS COVER THE MAJOR FINANCIAL INSTRUMENTS

THAT ENTER INTO INTERNATIONAL MONETARY RELATIONS. IT IS

BELIEVED THAT \$12 BILLION IN SHORT TERM CAPITAL OUTFLOWS IN

1971 WERE SPECULATIVE, AND THEREFORE SUBJECT TO REPATRIATION.

THE MAJOR DETERMINANTS OF REPATRIATION WOULD APPEAR TO BE

CHANGING INVESTMENT OPPORTUNITIES IN THE U.S. VIS-A-VIS FOREIGN

MARKETS. THE INCREASING LIQUIDITY OF U.S. CORPORATIONS AND

INDIVIDUALS, AND THE CONTINUING INTERNATIONAL INTEREST DIFFERENT—

IALS COULD RETARD THE RETURN OF THESE SPECULATIVE FLOWS.

2.2.5. A LARGE PERCENTAGE OF THE PRE AUGUST 15 CAPITAL CUTFLOW WAS
IN THE FORM OF IMPORT PREPAYMENTS, ESPECIALLY TO JAPAN. THIS
WAS DONE TO AVOID THE ADDITIONAL COST IN U.S. DOLLARS DUE TO
THE ANTICIPATED DEVALUATION. THERE IS A PROBLEM ASSOCIATED
WITH IDENTIFYING AND EXPLAINING CAPITAL FLOWS. THE FAILURE OF
ACCOUNTING MECHANISMS TO QUICKLY ISOLATE CAPITAL MOVEMENTS
INTO THEIR "OPPICIALLY" DESIGNATED CATEGORY IS REPLECTED IN THE
SIZE OF THE CATEGORY OF "ERRORS AND OMISSIONS AND OTHER ITEMS."

THIS CATEGORY LARGELY REPLECTED THE VOLATILITY OF CAPITAL FLOWS IN1971 AND THE IMABILITY OF THE ACCOUNTING SYSTEM TO CHICKLY CATEBORICS
THEM BY THEIR ORIGIN AND DESTINATION. " LAFORTUMATELY THIS IMAGELY."
OF THE ACCOUNTING SYSTEM TO "ADJUST" MAKES ECONOMIC ANALYSIS OF THE
INTERNATIONAL MONETARY ENVIRONMENT DIFFICULT.

2.3 OFFICIAL U.S. RESERVE ASSETS

TABLE 5

MOVEMENT OF OFFICIAL U.S. RESERVE ASSETS - 1971

BILLIONS)

			. • :•••	MA. 8871.	
Assists	1971.1	1971.2	[5] [971.3	1971.4	TOTAL 1971
TOTAL	. 15	.84	1.37	-0.01	2.35
GoLD	.11	.46	.30	-0.00	.87 //
SDR	59	.20	. 15	-0.0	25
CONVERTIBLE CURRENCIES	.37	07	.07	-0.0	.38 /
IMF - GOLD TRANCHE	.26	.25	.85	-0.08	1.35

IN 1971 U.S. OFFICIAL RESERVE ASSETS DETERIORATED FROM \$14.5 BILLION TO APPROXIMATELY \$12.1 BILLION. VIRTUALLY ALL OF THIS CHANGE OCCURRED PRIOR TO AUGUST 15, 1971. THE 1971 MOVEMENT OF NET U.S. OFFICIAL RESERVE ASSETS WAS \$0.15 BILLION. \$0.8 BILLION, \$1.4 BILLION. AND \$0.01 BILLION.

THE OFFICIAL U.S. RESERVE ASSETS ARE MADE UP OF GOLD (VALUED AT THE U.S. DESIGNATED MONETARY BOOK VALUE). SDR'S (SPECIAL DRAWING RIGHTS).

FOREIGN CONVERTIBLE CURRENCIES. AND THE GOLD TRANCHE POSITION OF THE U.S.

IN THE INTERNATIONAL MONETARY FUND (IMF). DURING 1971. THE U.S.

CONDUCTED TRANSACTIONS IN ALL FOUR MAJOR RESERVE ELEMENTS. A CONSTRAINT ON THE USE OF GOLD FOR INTERNATIONAL MONETARY SETTLEMENTS HAS BEEN THE OFFICIAL U.S. POLICY SINCE 1968 OF NOT FREELY CONVEXTING GOLD FOR DOLLARS.

EXCEPT FOR SPECIAL OFFICIAL INTERGOVERNMENT AND IMF TRANSACTIONS. IN 1971 GOLD SALES AMOUNTED TO \$366 MILLION. AND THE U.S. IMF GOLD TRANCHE WAS REDUCED BY \$1.4 BILLION. THE REDUCTION OF THE "U.S. RESERVE ASSETS"

CAN BE VIEWED AS A DECREASE IN U.S. LIABILITIES TO POREIGNERS.

2.4

TABLE 6
U.S. OFFICIAL SETTLEMENT
1970 AND 1971
(MILLIONS)

				15	71	
	1970	1971	1	2	3	A
OFFICIAL RESERVE						
TRANSACTIONS BALANCE	-9,821	-29,767	-4,718	-6,462	-12,704	-5,883
Financed by Changes in:						
Nonliquid Liabilities to						
Foreigh official reserve	•			· · · · · · · · · · · · · · · · · · ·		
AGENCIES REPORTED BY U.S. GOVERNMENT	535 /	341	-2	A	-3	-3
NonLiquid Liabilities To						
FOREIGN OFFICIAL						
AGENCIES REPORTED BY	-810/	-539	-201	-160	-173	~5
LIQUIO LIABILITIES TO						
FOREIGN OFFICIAL		•		,		
AGENCIES	7,619	27,619	4,776	5,788	11,507	5,546

TABLE 7

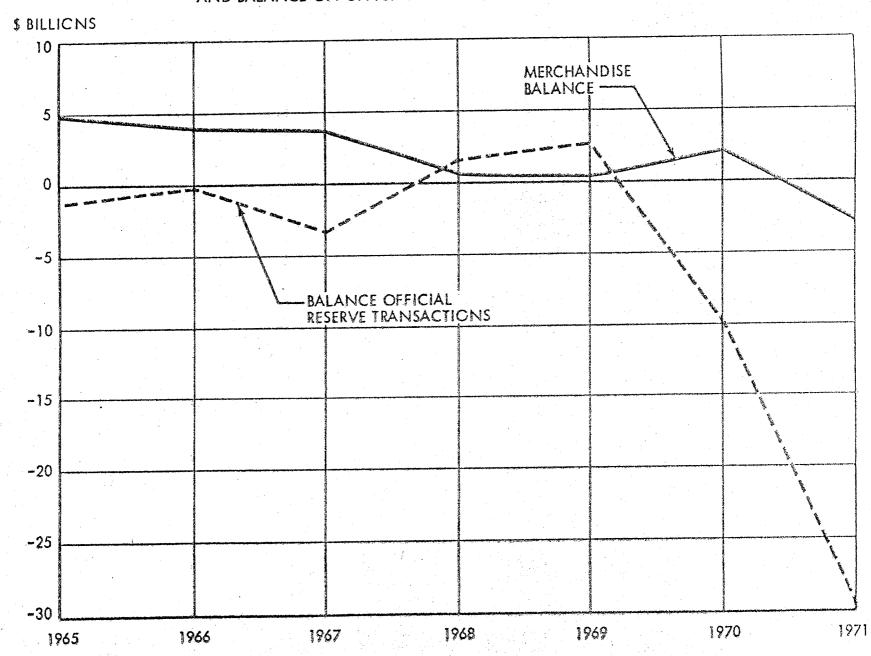
The object of a Transport Instant of the market of the Transport of the Transport Court of the C

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	The second of the second of			-1.1.3 -2.1.3		k niid	13.W	-3:33 -3:33	11:13	11,5:6	16:72	11,-75	-11,098	-1;638 -13;445	1.11
	Department of the Control of the Con			٠,٠,٠,٥		•		-11.339 - 11.339	-13,512	902	1,367	536	1,012	* 755	-1.7
	The secret and the second property and the second	******	1. 3	31413 633	1,553	1,-7	-174 -1.74	1,596 ° 250 °	526	1,150	6	:6	-514	• -900	-: 6
j. :	क्षाक्र के १५ ५०वर अंके हुई राज्यस्थाना	· · · · · · · · · · · · · · · · · · ·	3.00°	5		1. 3	15	r3	30		105	1.5	L8	30	÷.5
6. 2	Transferbility organization of Table Transfer to see the Transfer of the Trans	5 (-)	-7.2 •	-3:3 -1:6:5 -1:6:5 -1:6:3	-11	-172	-1.78	/3 -/73 113 76 163	-312 -557 321 16 48	-353 -160 128 -56 -71	-358 -144 127 -31 -102	-218 -377 1:6 3	79 -225 115 56 163	-342 -557 121 46 4度	-312 -312 -415 -415
33.	To provide the Many Control to Control Theorem There are to the Control Contro	y	en en en	1.75.1 35.5 7(1,1	5.7 73 5.7	126	563 212 879 161	5.58 5.58 2.88	1.05 712 418 1.05	319 318 343	156 -3 -63	5E2 531 300 331	914 529 557 28	1,203 712 114 144	27- 3-3 33 20
14. 17. 18.	Titler Builti- The English against Study superiod by Tuffe by one or toroids in the laws Greeken a		-9:6 2:3	-2,634 -543 -159 -1,648	-12 25 -158 -12	-613 -515 -64 -319	-725 -717 -18 -190	-1,024 -178 -1,034	-335 -208 -28 -333	-197 -158 -79	-173 -51 -186	-1,249 -217 -26 -28 -28	-7/8 -176 36 -633	-510 -308 -308 -308	130. 139 -38 168
19.	Attended of courts drawing rights \$133-A.		EV.3	717	313		**	**	310	180	179	179 -8,695	-4.273	178	1,320
-1.	Remark and and intens and other trapagetions and		-8,9%	-22,311	-k,:65	-6,1,3	-8,413	-3,518 -3,545	-3,235	-3,868 -2,525	-5,475 -5,800	-9,303	-6,345	6 -3,219	1,126
	DEC ELIPSING BRUINDE	***********	-3,372	-21,913	-1,547 -2,871	-6,578 3j6	-10,053 -2,631	-2,1.38	-151	-3,025		-9,662	-3,940 6:10-	-275 -655	1,565
5. 5. 7. 7.	thought the inputal flows, not by the chairs of the chairs of the chairs of the chair of the cha		-119 3/1 -6 3/2	-1,089 -5,708 -6,708 -6,708	-3.55 -3.53 -2.535 -2.537 -2.537	17	-1.22 -1.22 -1.22 -1.22 -1.22	- 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	- 1699 -	216- 250'6- 250'6- 260'8-	- 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	- 120 - 120 - 120 - 122 - 112 - 126 - 129	-1.628	* -196 140 256 85	2,028 2,028 2,754 2,755
53. 144	PERSONAL PROPERTY OF THE WARRENCE THE BETTER BROWN BRO	****	-	-:9,7¢7	-4,713	*6,168	-12.724	-5,883	-3,591	+3,500	-2,747	*12,135	-\$,;45	-3,6%	8,7752
٤ •	more of the form of a constant of ferrors		. 35	344	• *	• •	+3	350	e po	-8	- \$	-9 -173	36 6	280	-56
-3.	and the state of t		7,613	7.7.	4,775	5.78	11,507	5.5	8,413	7701 2,017	2,856	11,173	6.11\$	3.766 445	
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, h.	The state of the s	**************************************	4,771	-13.511 -4,548	-3,163 -1,505	-6,7,6	-10.7kg	·1.276	- 3, 292 - 192		-4,061 •	-10,881	-4,471	-3,77	3 974

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The contraction of the contracti

HISTORICAL TRENDS IN MERCHANDISE BALANCE AND BALANCE ON OFFICIAL RESERVE TRANSACTIONS



2.4 U.S. OFFICIAL SETTLEMENT ACCOUNT

AS WAS POINTED OUT IN THE INTRODUCTION. **U.S. RESERVE TRANSACTIONS*

IN 1971 REACHED \$29.8 BILLICH DOLLARS. THIS FIGURE SHOWS THE NET INTER
NATIONAL CAPITAL MOVEMENTS OF THE U.S. AND, AS SUCH, IS AN ACCOUNTING

BALANCING ITEM. IN THE CASE OF 1971, THIS ACCOUNT SHOWS HOW THE BALANCE

OF PAYMENTS DEFICIT WAS FINANCED. TABLE 6 ITEMIZES THE MOVEMENT OF

THE BALANCING ITEMS FOR 1971. IT MIGHT BE OBSERVED FROM TABLE 6 THAT

THE TWO MOST "ACTIVE" ITEMS WERE ** LIQUID LIABILITIES TO FOREIGN

Agencies". And movements in "Oppicial Reserve Assets". The

in the reserve position of the U.S.

Former account represented a greater deby with an oppositing decrement

2.5 TABLE 7 PRESENTS THE MAJOR DISAGGREGATED ITEMS THAT ENTERED INTO THE 1970 AND 1971 BALANCE OF PAYMENTS TRANSACTIONS. A REVIEW OF THIS TABLE WILL INDICATE THAT THE MOST IMPORTANT MOVEMENTS TOOK PLACE IN THE MERCHANDISE TRADE BALANCE; OTHER GOODS AND SERVICES, NET; NON LIQUID CAPITAL FLOWS REPORTED BY U.S. BANKS, NET; ERRORS AND OMISSIONS AND OTHER TRANSACTIONS; AND LIQUID PRIVATE CAPITAL FLOWS, NET. THE NEGATIVE ITEMS IN THE 1971 U.S. BALANCE OF PAYMENTS LED TO AN OFFICIAL RESERVE TRANSACTION BALANCE OF \$29.8 BILLION. THIS WAS THE LARGEST U.S. OFFICIAL RESERVE TRANSACTION BALANCE EVER RECORDED FOR THE U.S.

THE INCREASE IN U.S. OFFICIAL RESERVE TRANSACTION BALANCE WAS FINANCED MAINLY BY AN INCREMENT IN U.S. LIQUID LIABILITIES TO FOREIGN OFFICIAL AGENCIES AND A CHANGE IN THE GOLD TRANCHE POSITION OF THE U.S. IN THE IMF.

IT IS SIGNIFICANT TO NOTE THAT IN 1970 \$2.2 BILLION OF THE \$9.8 BILLION

OFFICIAL RESERVE TRANSACTION BALANCE WAS PINANCED BY THE USE OF FOREIGN CURRENCIES.

WERE USED TO OFFSET THE OFFICIAL U.S. DEFICIT. TWO POSSIBLE EXPLANATIONS ARE THAT BY 1971 THE U.S. HAO LARGELY DEPLETED ITS RESERVES OF THIS ASSET,

AND THAT FOREIGN CENTRAL BANKS BY THEIR INTERVENTION IN THE CRISIS ENVIRONMENT OF 1971 TVOLUNTARILY ALLOWED THE U.S. TO INCREASE THE LATTER DEBT.

THE MAGNITUDE OF THE INCREASE FROM \$9.8 BILLION IN 1970 TO \$29.7 BILLION IN 1971 IS INDICATIVE OF THE "OFFICIAL ACTIVITY" THAT WAS TAKEN TO MAINTAIN THE WORLD INTERNATIONAL MONETARY ORDER. THE HISTORICAL PATH OF THE NET MERCHANDISE BALANCE AND BALANCE ON OFFICIAL TRANSACTIONS SINCE 1965 IS PLOTTED ON FIGURE 2.

2.6 SMITHSONIAN ACCORD AND CURRENCY REALIGNMENT

WITH THE U.S. SECULAR DEFICIT IN ITS BALANCE OF PAYMENTS CONTINUALLY increasing and the ratio of het U.S. Assets to liabilities decreasing (0.4837 to .2308) The position of the dollar as the foundation of the fixed exchange ratios (the Bretton Woods System) became untenable. Om 15 August 1971. President Nixon Revomed Completely any pretext of U.S. DOLLAR CONVERTIBILITY AND ALLOWED THE DOLLAR TO FLOAT FREELY. FURTHER. THE PRESIDENT FROZE DOMESTIC PRICES AND WAGES, THUS USHERING IN THE "New Economic Policy" (NEP), and instituted a fairly comprehensive 10 PERCENT IMPORT SURTAX. THESE ACTIONS BY PRESIDENT NIXON PRECIPITATED FRENZIED ROUNDS OF DISCUSSIONS AMONG THE LEADING FREE WORLD TRADING POWERS TO ATTEMPT TO SOLVE THE CURRENCY CRISIS. THE RESULT OF THESE DISCUSSIONS WAS THE SMITHSONIAN ACCORD OF 18 DECEMBER 1971. THIS ACCORD covered four major points: (1) A new set of international currency realignments (see Table 8), (2) The Removal of the 10 percent U.S. surtax IN EXCHANGE FOR THE LOWERING OF CERTAIN TRADE BARRIERS AGAINST U.S. EXPORTS. (3) A NEW U.S. BOOK VALUE OF GOLD, AND (4) AGREEMENT BY THE MAJOR TRADING NATIONS TO ESTABLISH A NEW SYSTEM TO ENHANCE INTERHATIONAL MONETARY RELATIONS. TABLE 8 SUMMARIZES THE NEW EXCHANGE RATE CHANGES AGREED ON AT THE SMITHSONIAN MEETING.

2.7 REVIEW OF CURRENCY REALIGHMENT

A REVIEW OF TABLE 8 INDICATES THAT THE EFFECTIVE DEVALUATION OF THE

UNITED STATES DOLLAR, WEIGHTED BY BILATERAL TRADE, AMOUNTED TO 12 PER
CENT. THIS 12 PERCENT FIGURE REPRESENTS A TRADE WEIGHTED AVERAGE CHANGE

IN THE RELATIVE EXCHANGE VALUE VIS-A-VIS EIGHT OTHER COUNTRIES. THESE COUNTRIES REPRESENT EIGHT OF THE "TEN" MAJOR FREE WORLD TRADING NATIONS WITH THE EXCEPTION OF CANADA (WHICH HAS CONTINUED TO ALLOW ITS CURRENCY TO FLOAT) AND THE UNITED STATES.

THE U.S. CONDUCTS APPROXIMATELY 25 PERCENT OF ITS TOTAL TRADE WITH CANADA AND ABOUT 38 PERCENT WITH THE EIGHT OTHER NATIONS. AGAINST ALL. CURRENCIES WHICH REVALUED RELATIVE TO THE DOLLAR, THE EFFECTIVE DEVALUATION WAS 9.7 PERCENT, AGAIN ON A TRADE WEIGHTED AVERAGE BASIS. THESE COUNTRIES ACCOUNT FOR APPROXIMATELY 80 PERCENT OF TOTAL U.S. TRADE. EIGHTEEN PERCENT OF TOTAL U.S. TRADE IS CONDUCTED WITH COUNTRIES WHO MAINTAINED THEIR EXCHANGE PARITY WITH THE DOLLAR, WHILE THE REMAINING TRADE IS WITH NATIONS WHO DEVALUED RELATIVE TO THE DOLLAR.

2.8 U.S. BALANCE OF PAYMENTS DEVELOPMENTS - FIRST QUARTER 1972

2.8.1 REVIEW

THE UNITED STATES DEPARTMENT OF COMMERCE ESTIMATES THE OFFICIAL RESERVE TRANSACTIONS BALANCE FOR 1972.1 AT \$2.6 BILLION. THE NET LIQUIDITY BALANCE WAS ESTIMATED AT -\$2.4 BILLION FOR 1972.1. THE OFFICIAL RESERVE TRANSACTION SHOWS AN IMPROVEMENT \$2.8 BILLION, WHILE THE NET LIQUIDITY BALANCE DETERIORATED BY \$0.6 BILLION FROM 1971.4 TO 1972.1.

2.8.2 MAJOR PAYMENT FLOWS FOR 1971.2

THE DEPARTMENT OF COMMERCE ATTRIBUTES THE REDUCTION IN THE NET LIQUIDITY DEFICIT BETWEEN 1971.4 TO 1972.1 TO A DECREASE IN THE RATE OF CAPITAL OUTFLOWS ASSOCIATED WITH TRANSACTIONS FOR WHICH FIRST QUARTER DATA WERE NOT AVAILABLE. THIS INCLUDED FLOWS RELATED TO DIRECT INVESTMENT AND THOSE FLOWS NOT COVERED BY THE ACCOUNTING SYSTEM. THIS IMPROVEMENT WAS ALSO REFLECTED IN THE OFFICIAL U.S. GOVERNMENT RESERVE TRANSACTIONS. AS WAS

EXPECTED, WITH THE DESPENING AND WIDENING OF DOMESTIC OPPORTUNITIES AND THE DECREASE IN SPECULATIVE PRESSURES, THERE WAS A
SIGNIFICANT DECLINE IN NET LIQUID PRIVATE CAPITAL OUTFLOWS IN 1972.1

THERE WERE SOME OFFSETTING SHIFTS IN OTHER ACCOUNTS (AFFECTING BOTH BALANCES) IN THE FIRST CHARTER. ON THE POSITIVE SIDE THERE WAS A RISE IN FOREIGN PURCHASES OF U.S. SECURITIES AND A REDUCTION IN CUTFLOWS OF BANK REPORTED NON-LIQUID CAPITAL. HOWEVER, OFFSETTING THESE FAVORABLE SHIFTS WERE, AN INCREASE IN U.S. PURCHASES OF FOREIGN SECURITIES, TOSETHER WITH AN ESTIMATED DECLINE IN INVESTMENT INCOME RECEIPTS, AND SOME FURTHER WITHOUT THE MERCHANDISE TRADE DEFICIT TOOK PLACE.

FOLLOWING TWO YEARS (1970-1971) OP VERY LARGE NET LIQUID PRIVATE CAPITAL OUTPLOWS, THERE WAS A RETARDATION OF THIS PROCESS IN 1972.1. BETWEEN 1971.4 AND 1972.1 THERE WAS AN IMPROVEMENT OF \$1.7 BILLION IN THIS ACCOUNT. THE \$2.6 BILLION DEFICIT IN THE OFFICIAL RESERVE TRANSACTIONS BALANCE WAS FINANCED BY AN INCREASE OF MORE THAN 2.4 BILLION IN LIABILITIES TO FOREIGN OFFICIAL AGENCIES.

2.8.3 MERCHANDISE TRADE IN THE FIRST QUARTER OF 1972

ACCORDING TO PRELIMINARY FIGURES MADE AVAILABLE ON APRIL 27, BY

THE U.S. DEPARTMENT OF COMMERCE, THE U.S. MERCHANDISE TRADE

DEFICIT ON A BALANCE OF PAYMENTS BASIS (EXCLUDING "MILITARY")

INCREASED TO \$1,528 MILLION, IN THE FIRST QUARTER OF 1972.

TOTAL EXPORTS AND IMPORTS BOTH ROSE TO NEW QUARTERLY HIGHS, UP FROM THEIR STRIKE-DEPRESSED LEVELS IN THE FOURTH QUARTER OF 1971, WHEN THE INDUSTRIAL DISRUPTIONS ON THE WATERFRONT

SLOWED THE MOVEMENT OF GOODS THROUGH ATLANTIC AND GULF PORTS

EXPORTS IN 1972.1 ADVANCED TO \$11,209 MILLION, AND IMPORTS INCREASED TO \$13,322 MILLION. THESE FIGURES ARE AFTER ADJUSTMENT TO A BALANCE OF PAYMENT BASIS, EXCLUDING MILITARY EXPORT SALES AND IMPORT PURCHASES BY DEPENSE AGENCIES, AND INCLUDE.

OTHER ADJUSTMENTS TO THE CENSUS BUREAU TRADE DATA TO ALLOW FOR TIMING COVERAGE AND VALUATION.

IT WOULD APPEAR THAT THE WEST COAST STRIKE FROM MID-JANUARY TO THE THIRO WEEK IN FEBRUARY WAS MORE THAN OPPSET BY THE BACKLOG IN MERCHANDISE FLOWS THROUGH EAST AND GULF COAST PORTS. BOTH THESE FORT AREAS REPORTED EXCEPTIONALLY HEAVY LOADINGS IN 1972.1. IN THIS CONTEXT, IT SHOULD BE NOTED THAT THE WEST COAST WATERSIDE WORKERS (ILWU) HAVE DECIDED TO CONTINUE WORKING DESPITE THEIR NEGOTIATED CONTRACT BEING SEVERALY MODIFIED BY THE PAY BACKO.

THE U.S. DEPARTMENT OF COMMERCE ATTRIBUTES THE SIZE OF THE TRADE DEFICIT TO "...BOTH THE DIVERGENT ECONOMIC GROWTH RATES HERE AND ABROAD, AND THE INITIAL IMPACT OF THE RECENT ADJUSTMENTS IN EXCHANGE RATES". INCREASE IN U.S. INCOMES APPARENTLY HAD A STIMULATING IMPACT ON IMPORTS. WHILE EXPORTS WERE PROBABLY LIMITED BY THE RELATIVE SLOWER INCREASE IN MOST U.S. EXPORT MARKETS. WITH A GROWING MOMENTUM IN THE ECONOMIC ACTIVITY OF OUR MAJOR TRADING PARTNERS, IT CAN BE EXPECTED THAT THIS TREND WILL REVERSE ITSELF.

ANOTHER FACTOR THAT ACCOUNTS FOR THE DETERIORATION IN THE BALANCE

ON IMPORTS AND EXPORTS ARE DISTRIBUTED OVER TIME. MANY ECONOMISTS CONTEND THAT, ALTHOUGH LONG-TERM ELASTICITIES ARE INDEED GREATER THAN ONE, SHORT-YERM PRICE ELASTICITIES ARE LESS THAN ONE, SO THAT THE U.S. DEVALUATION MIGHT EXERT PERVASIVE EFFECTS ON THE TRADE BALANCE IN THE VERY SHORT-TERM.

TABLE 8 EXCHANGE—RATE CHANGES (Post Smithsoman)

Irl

Percentage Changes Against The U.S. Dollar from pre-May 1971 parities. Expressed in U.S. Cents

TRADE-WEIGHTED AVERAGE
CHANGES AGAINST A GROUP
OF MAJOR CURRENCIES

	NEW	g annes metal separation of the second transfer of the second	A EQ SUCCESSOR CONTRACTOR CONTRAC	NEW	THE PARTY OF THE PROPERTY OF THE PARTY OF TH	The state of the s
•	CENTRAL	Market	RATES	CENTRAL	MARKET	RATES
	RATES	DEC 31	JAN 18	RATES	DEC 31	81 HAL
UNITED STATES DOLLAR	0.00	0.00	0.00	-10.35	- 9.05	- 9.58
CANADIAN DOLLAR	+8.49*	+7.87	+ 7.43	+ 5,58	+5.44	+ 4.77
Japanese yen	+16.87	+14.37	H5.17	+11.93	+10.34	+10.78
BRITISH POUND	+ 8.57	+ 6.35	+7.51	+ 0.67	- 0.43	- 0.07
GERMAN MARK	+13.58	+12.01	+13.87	+ 4.54	+ 4.24	+4.89
FRENCH FRANC .	+ 8.57	+ 6.45	+ 7.78	- 1,31	- 2.20	- 2.14
ITALIAN LIRA	+7.48	+ 5.28	+ 6.28	- 1.90	- 2.76	- 2,96
BELGIAR FRANC	+11.57	+11.61	+13.17	+ 1.51	+ 2.79	+ 2.91
DUTCH GUILDER	+11.57	+11.33	+13,19	+ 1.17	+ 2,12	+ 2.56
SWISS FRANC	413.87	+11.75	+12,94	+3.89	+ 3.39	+3,31
AUSTRIAN SCHILLING	+11.59	+ 9.59	+11,54	+ 0.60	+ 0.22	+0.74
DANISH KRONE	+ 7.45	+ 6.28	+ 6.80	- 1.31	- 1.17	- 1.70
Norwegian krome	+ 7,49	+ 6.56	+ 6.82	- 1.41	- 1.04	- 1.80
SWEDISH KROMA	+ 7.49	+ 6.47	+ 7.60	- 1.46	- 1.16	- 1.07
AUSTRALIAN DOLLAR	+ 8.57	+ 6.12	+ 6.35	- 0.24	- 1.15	- 1.63

PRE-JUNE 1970 FOR CAHADA

^{*} A CENTRAL RATE HAS NOT BEEN SET FOR THE CANADIAN DOLLAR. THE DECEMBER 17, 1971
MARKET RATE IS USED IN LIEU OF A CENTRAL RATE.

TABLE 9

INTERNATIONAL MONETARY FINANCIAL INSTRUMENTS

TABLE 9A

International bond yields tong term issues, at or near and of months

	· · · · · · · · · · · · · · · · · · ·	U.S. compo	nies		European c	ampenies.	Gospania ments
• •		U.S. Solve	German mark	Swiss Irans	U.S. dollar	German mark	U.S. dollar
1970	Dec	8.27	7.71	5.97	8.61	8.04	8.23
1971	Jan	8.10	7.40	5.91	8.38	7.89	7.96
	Feb	8.23	7.51	5.78	8.40	7.98	7.92
	Mar	8.36	7.44	5.68	8.52	7.93	7.80
	Apr	8.48	7.32	5,53	8.64	7.84	7.84
•	May	8.58	7.91	5.52	8.78	7.91	7.99
	Jun	8.48	7.51	5.64	8.67	8.05	7.98
	Jul	8.81	7.58	5.70	8.91	8.00	8.07
	Aug	8.89	7.58	5.67	9.00	8.09	8.31
	Sep	3.78	7.44	5.50	8.98	7.92	8.39
	Oct	8.28	7.34	5.39	8,40	7.89	8.10
	Nov	8.18	7.34	5.36	8,42	7.92	8.01
	Dec	7.84	7.35	5.47	80.8	7.84	7.84

TABLE 9B

Euro-dollar deposit rates prime banks' bid rates in London, at or near end of month

				•			
		Cell	7-day notice	One monte	Three months	Six moalks	Twelve
1968	Dec	6.75	6.88	7.00	7.08	7.13	7.13
1969	Mar	7.88	8.00	8.63	8.44	8.50	8.44
	Jun	9.25	9.25	10.00	10.50	10.50	10.94
	Sep	9.63	10.00	10.38	11.31	11.25	10.94
	Dec	10.13	10.13	9.75	10.13	10.06	9.81
1970	Mar	8.63	8.63	8.50	8.50	8.50	8.50
	Jun	8.63	8.53	8.81	9.00	9.06	9.08
	Sep	7.88	7.88	8.00	8.38	8.44	8,44
	Dec	5.38	5.38	6.19	6.44	6.75	6.75
1971	May	7.75	7.75	7.81	7.58	7.58	7.58
	Jun	4.63	5.00	5.69	6.50	7.00	7.33
	Jul	5.50	7.25	6.69	6.69	7.25	7.25
	Aug	n.a.	10.50	9.25	8.83	8.75	8.13
	Sep	5.33	5.53	7.06	7.75	7.75	7.75
	Oct	4.75	4.75	5.13	5.94	5.05	- 6.53
	Nov.	5.00	5.00	6.50	6.44	5.50	6.55
	Dec	5.13	5.25	5.75	5.75	5.81	6.00

International bond issues outside the United States

In millions of U.S. dollars

In millions of U.S. dollars						•				
					•	1971			Jan	
	1967	1968	1969	1970	1971	Oct	Nov	Doc.	1972 ₽	1972
Euro-bonds, total	2002	3 573	3 156	2968	3 624	155	530	255	451	290
by calegory of bossowes				~	« AAA	es 3	195	85	50	25
U.S. companies	562	2 096	1 005	741	1090	34	193 224	85	212	109
Other companies	575	603	817	1 065	1119	11 55	22°	85	67	129
State enterprises	442	349	682	594	83 8 479	42	55	67%	132	27
Governments	303	500	584	351	98	13	676	day	S. street,	EUGA
International organizations	120	25	68	215	30	1 6.0				
by currency of denomination					•					
U.S. dollar	1780	2 554	1723	1 775	2 203	35	445	200	325	181
German mark	171	914	1 338	688	786	82	71	55	121	71
Dutch guilder	636	200C	17	391	298	27	14	#BIS	15	28
Other *	51	105	78	112	337	11	******	# 50234	est.	10
by type of security	•									
Long-term straight debt	1 427	1 708	1 852	1 995	2 623	128	371	185	381	247
Medium-term straight debt	250	480	173	733	708	27	84	70	55	28
Certificates of deposit	-55	75	. 1820		tinia.	er#/	Aprillo:	- Marco	25	esta -
- Convertible	260	1 910	1 131	238	295	***	75	•	uses.	15
•								•		- :
Foreign bonds, total	403	1 135	827	378	1 527	132	148	176	71	27
by category of borrower			•	•						•
U.S. companies	48	139	223	55.	200	44	desc.	diseas.	ener .	14
Other companies	65	58	128	83	208	21	34	•	37	13
State enterprises	•	12	107	16	156	** .	5	•	•	40kg
Governments	157	317	98	53	254			51	-	
International organizations	133	611	271	171	709	67	107	119	34	e
by currency of denomination			•							
German mark	10	674	531	89	308	•	• ecuir	93		
Swiss Iranc	153	238	196		659	65	54	2	37	27
Italian lira	24		24		32				34	· ·
British pound	102					***		24	, and	Marie A
Other b	114	132	76	84	390	67	92	51	- Apan	-
by type of security	•				•					• •
Long-term straight debt	377	956	641	345	1 204	104	146	146		27
Medium-term straight debt	2	179	120	33		28	, apar	24	-	e 275.
Convertible		, ann	68		30	-	-	1950	\$	approve.
International bonds, total	2 405	4 703	3 983	3 344	S 151	237	678	425	512	317
alternational bonds, total	a 700	. 4190	# ~ ~~						-	

^{*} Includes European unit-of-account, European Currency Unit, and E/DM option issues.

b Includes £13 option issues.

> Preliminary

TABLE 90

Central bank discount rates

	1963	1969	1970	1971				Current	
	and Dec	end Doc	end Dec	kne Nak	and Jun	and Sep	end Des	Jan 18 1972	Effective since
United States	5.50	6.00	5.50	4.75	4,75	5,00	4.50	4.50	Dec 13, 71
Canada	6.50	00.8	6.00	5.25	5.25	5.25	4.75	4.75	Oct 25, 71
Japan	5.84	6.25	6.00	5. 7\$	5.50	5.25	4.75	4.75	Dec 29, 71
Belgium	4.50	7.50	6.50	6.00	6.00	5.50	5.50	5,00	Jan 8, 72
France	3.50	8.00	7.00	6.50	5.75	6.75	6.50	6.00	Jair 14, 72
Germany	3.00	6.00	6.00	6.00	5.00	5.0C	4.00	4.00	Dec 23, 71
Italy	3.50	4.00	5.50	5.00	5.00	5.00	4.50	4.50	Oct 14, 71
Netherlands	5.00	6.00	6.00	6.00	5.50	5,00	5.00	4.50	Jan 6, 72
Denmark ·	6.00	9.00	9.00	8.00	7.50	7.50	7.50	7.00	Jan 10, 72
Norway	3.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	Sep 27, 69
Sweden	5.00	7.00	7.00	6.50	6.00	5.50	5.00	5.00	Nov 12, 71
Switzerland	3.00	3.75	3.75	3.75	3.75	3.75	3.75	3.75	Sep 15, 69
United Kingdom	7.00	8.00	7.00	7.00	6.00	5.00	5.00	5.00	Sep 2, 71
South Alries	5.50	5.50	5.50	6.50	6.50	6.50	6.50	6.50	Mar 30, 71

TABLE 9E

Day-to-day money rates

•	•			•							•
	1967	1958	1969	1970	1971						
	Dec	Dec	Dec	Dec	Jun	Jul	Aug	Sep	Oct	Nov	De.
United States	4,51	6,02	8.97	4.90	4.91	5.31	5.57	5.55	5.20	4.91	4.14
Canada	5.67	5.48	7.78	5.14	3.03	3.64	4.01	4.14	4.18	3.72	3.51
Japan	7.30	7.15	8.5C	7.50	6.50	6.25	6.25	6.00	5.50	5.50	5.00
B elgium	2.54	3.36	6.07	5.55	2.68	4.53	3.55	3.60	3.55	4.20	4.10
France	4.78	8.22	10.38	7.48	6.33	5.91	5.75	-5.96	5.94	5.94	5.30
Germany	2.80	2.06	8.13	7.50	7.00	6.25	6.25	7.00	7.50	4.63	5.88
Netherlands	4.05	4.96	7.11	5.73	2.91	2.69	5.53	3.80	5.35	3.79	4.91
Switzerland	2,00	3.25	4.75	5.50	2.50	2.50	0.50	0.50	0.13	0.00	0.00
United Kingdom	7.45	6.52	7.64	6.66	5,88	5.75	5.16	4.92	4.68	4.13	4.06
Australia	4.16	4.18	4.40	4.90	5.91	5.83	5.59	5.70	5.74	5.11	5.14
South Africa	4.85	4,55	4.21	4.35	5.35	5.36	5.27	5.39	5.39	5.51	5.72
Euro-dollars	5.03 -	6.53	10.00	···· 6.97·	- 5.53	5.23	- n.a.	6,42	5.19	5.C3	5.25

Occid

Treasury bill rates bond-equivalent yields, at or near end of month

	1967			1970 ',	3971				angricky) and the design discontinuous and the second	Participation of the State of t	one manufacture of the
	Dec	Dec	Dec	Dec	Jun	Jul	Aug	Sep	Ccs	Nov	Dec
United States	5.09	6.38	8.28	5.03	5.24	5.34	4.58	4.56	4.41	4.25	3.72
Canada	5.95	6.24	7.81	4.44	3.37	3.88	3.91	4.06	3.47	3.37	3.21
Japan	5.71	5.71	5.94	5.81	5.42	5.42	5.17	5.17	5.17	5.17	5.17 &
Belgium	4.40	5.00	8.50	6.95	4.80	4.90	4.70	4.50	4.50	4.60	4.80 \$
Francs	5.23	8.41	10.18	7.73	7.17	6.80	6.61	6.96	6.32	5.97	5.68
Germany	2.78	2.78	5.83	5.83	4.30	4.30	4.30	4.30	3.50	3.80	3.28 -
Italy	5.05	5.05	5.70	6.57	5.80	5.90	6.52	6.30	5.90	5.53	5.41 4
Netherlands	4.60	5.06	6.25	6.25	4.37	4.00	4.63	4.75	4.75	4.00	5,00 =
Sweden	6.92	5.32	8.69	8.42	6.34	6.09	6.09	5.58	4.79	3.79	3.79
United Kingdom	7.62	6.90	7.80	6.95	5.68	5.64	5.90	4.78	4.61	4.33	4.46
			4		'r 89	e 012	E 27	5.37	5.37	5.08	5.03
Australia	4.50	4.50	4.79	5.65	5.37	5.37	5.37		5.64	5.72	6.04
South Africa	5.07	4.71	4.42	4.55	5.58	5.56	5,50	5.62	27.Q=F	J.16	O'FLE

TABLE 9G

Representative money-market rates bond-equivalent yields, at or near end of month

	1967	1968	1969	1970	1971		•			Commence of the contract of th	
	Des	Dec	Dec	Dec	Jun	Jul	Aug	Sep	Oct	Nov	Des
United States	5.91	6.96	9.46	6.05	5.65	5.79	5.65	5.65	5.13	4.75	4.49
Canada	6.74	6.61	9.34	6.09	4.30	4.81	4.81	5.06	4.94	4.81	4.42 -
Japan	8.03	8.40	9.25	8.75	7.00	6.50	6.50	6.25	5.75	5.75	5.75 v
Belgium	4.90	5.25	8.75	7.25	5.15	5.30	5.05	4.90	4.80	4.80	5.15 -
France	4.94	8.50	10.88	7.25	7.13.	5.88	6.50	6.50	5.81	-5.81	5.75 -
Germany	4.63	4.50	9.13	8.25	7.38	7.63	7.38	7.50	7.25	6.50	5.50-
Italy	3.52	3.41	5.00	7.33	5.88	5.75	5.75	5.50	5.38	5.25	5.50~
Netherlands	5.50	6.13	9.00	7.38	5.10	4.56	5.00	5.56	5.75	5.50	5.50-
United Kingdom	8.00	7.75	9.13	7.00	6.25	6.13	5.88	5.38	5.06	4.33	4.63
Australia	5.00	5.25	5.75	6.00	7.75	7.25	7.00	7.00	6.50	6.25	6.50 -
South Alrica	5.78	5.37	5.47	7.44	7.23	7.54	7.13	7.96	7.55	8.00	8.63 :
Euro-doilars	6.25	7.06	10.13	8.44	8.50	6.69	8.83	7.75	5.94	5.44	5.75

Commercial bank deposit rates

al or near end of month

;.·

	3967	1968	1969	1970	1971			والمراجعة	CALIFER WILL AND THE STREET	~~~~	and the second s
•	Dec	Doc	Dec	Des	Jua	Jul	¥ពនិ	540	Oct	How	Dest
United States	5.50	6.00	6.00	5.63	5.50	5.88	5.38	5.63	5.00	4.75	4.25
Canada	6.25	6.50	7.50	5.50	4.0Q	4.25	4.75	5.00	4,83	4.63	4.40
Japan	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
8elgium	4.75	6.63	9.25	7.00	5.00	5.31	5.13	4.75	4.50	4.50	4.50
France	4.00	6.00	9.00	6.50	6.50	6.75	6.75	6.75	6.75	6.75	6.75
Germany	4.00	4.38	8.53	7.50	6.50	6.75	6.63	6.75	6.50	6.00	5.00
Italy	2.75	5.50	7.50	8.00	4.75	4.75	4.75	4.75	4.75	4.75	4.75
Netherlands	5.83	6.25	9.00	7.00	4.85	4.50	4.80	5.25	5.75	5.50	5.63
Denmark	6.25	4.75	7.00	8.00	6.50	6.50	6.50	6.50	6.50	6.50	6.50
Norway	2.50	2.50	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.60
Sweden	5.75	4.75	6.75	6.75	5.75	5.75	5.75	5.25	5.25	4.75	4.75
Switzerland	4.00	4.25	5.00	5.25	3.50	3.50	2.50	2.50	2.00	1.50	1.50
United Kingdom	7.88	7.63	9.13	7.00	6.19	6.00	5.75	5.19	4.94	4.25	4.50
Australia	4.00	4.25	5.00	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
South Africa	5.50	5.00	5.50	6.00	6.75	6.75	6.75	6.75	6.75	6.75	6.75
Euro-dollars	6.25	7.08	10.13	6.44	6.50	6.69	8.88	7.75	5.94	6.44	5.75

TABLE 91

Commercial bank lending rates to prime borrowers

0000 1971 1968 1969 1970 1967 Oct Nov Dec O+c Dee Dec Dec iun. Jul Aug Sep 5.25 United States 6.00 5.75 5.50 6.00 6.75 8.50 6.75 5.50 6.00 6.00 0.00 6.00 -5.50 6.50 5.00 Canada 6.50 6.75 8.50 7.50 6.50 6.50 7.22 7.18 7.14 7.10 & 7.33 7.27 Japan 7.00 7.04 7.37 7.48 7.33 00.6 7.50 7.50 7.50 7.EC -8.00 Balgium 5.25 6.50 10.00 8.50 8.00 9.05 9.05 9.05 8.65 -9.05 France 5,85 7.85 10.35 9.65 9.05 9.05 7.25 -00.8 8.00 8.00 7.50 7.75 9.00 8.00 Germany 6.00 6.00 9.00 8.25 ---9.00 9.00 8.75 8.75 8.25 Italy 6.75 6.50 8.25 10.25 9.00 7.00 7.50 7.50 7.00 7.00 ÷ Netherlands 7.00 8.50 8.00 8.00 6.50 8.50 10.50 10.50 10.50 10.50 10.50 = 12.00 10.50 10.50 Denmark 8.50 11.50 10.00 7.50 --Norway 6.00 6.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 7.50 8.00 --9,00 9.00 9.00 8.50 8.50 200.8 Sweden 8.50 7.50 9.50 10.00 7.00 -7.00 7.00 7.00 7.00 7.00 7.00 Switzerland 6.25 6.25 6.50 7.00 5.50 7.00 7.00 6.00 6.00 5.50 United Kingdom 9.00 8.00 7.00 8.50 7.50 7.75 -7.75 7.75 Australia 6.75 7.00 7.25 7.75 7.75 7.75 7.75 7.75 9.00 9.00 9.00 9.00÷ South Africa 00.8 8.50 9.00 9.00 9.00 C3.8 8.00 7,32 6.63 --8.53 6.82 Euro-dollars 7.94 11.00 7.32 7.38 7.57 9.76 7.13

Domestic government bond yields long-term issues, at or near end of month

	1967	1968	1969	1970	1971						
•	Dec	Dec	Dec	Des	Jun	Jul	Aug	, Sap	0xt	How	Dec
United States	5.48	5.97	6.92	5.42	6.35	6.37	6.12	5.88	5.89	5.94	5.92
Canada	6.54	7.30	8.33	6.99	7.30	7.49	7.07	5.97	6.71	6.54	6.56
Japan	6.98	7.05	7.14	7.21 %	7.24	7.22	7.19	T.20	7.20	7.22	7.20
Belgium .	5.23	5.22	5.77	5.49	5.24	5.22	5.21	5.34	5.34	5.32	5.33
France	5.60	6.00	6.78	7.64	7.59	7.80	7.59	7.77	7.53	7.37	7.34
Germany	6.89	6.58	7.38	7.84	7.93	7.92	7.83	7.72	7.63	7.61	7.54
Italy	6.58	6.59	7.30	8.90	8.71	8.73	8.68	8.45	8.17	8.18	7.93
Neth erlan ds	6.13	ნ.3⁴	7.50	7.18	6.75	6.83	6.75	6.78	6.53	8.65	£3,3
Denmark	9.78	8.78	10.73	11.34	11.45	10.90	10.89	10.92	10.72	10.83	10.81
Norway	4.95	4.89	6.30	6.41	6.39	6.40	6.35	6.41	6.42	6.45	6.37
Sweden	6.80	6,19	7.27	7.32	7.28	7.29	7.30	7.10	7.17	7.12	7.14
Switzerland	4.55	4.35	5.34	5.70	5.42	5.45	5.31	5.09	4.97	4.86	4.99
United Kingdom	7.14	8.03	8.85	9.80	9.22	9.36	9.12	8.49	8.65	8.54	8.45
Australia	5.25	5.02	6.00	7.00	7.00	7.00	7.00	7.00	6.75	6.65	6.50
South Alrica	6.48	6.44	8.4	7.75	8.50	8.50	8.50	8.50	8.50	8.50	8.50

TABLE 9K

Domestic corporate bond yields long-term issues, at or near end of month

					•	€	٠.			•	
	1957	1968	1969	1970	1971						Marketimentines and
• • • • • • • • • • • • • • • • • • •	Dec	Dec	Dec	Dee	Jun	Jul	Aug	Sep	Oct	Nov	Dec
United States	6.74	7.04	8.95	7.90	8.05	8.25	7.60	7.75	7.55	7.50	7.30
Canada	7.59	8.18	9,29	8.83	8.52	8.55	8.41	8.32	8.21	8.14	8.24
Japan	8.57	8.66	9.07	9.20	7.95	7.61	7.49	7.44	7.42	7.49	7.38
Belgium	5.05	5.92	6.95	6.92	6.40	6.18	6.35	6.32	6.07	6.09	6.12
France	7.52	7.76	8.71	8.83	8.74	8.65	8.68	8.95	8.74	8.77	8.63
Germany	6.95	6.43	7.60	7.77	7.90	8.00	7.83	7.74	7.62	7.59	7.59
Italy	7.15	7.12	3.51	9.74	9.13	9.15	n.a.	8.92	8.72	8.62	8.46
Netherlands	6.71	6.98	8.54	7.83	7.58	7.70	7.60	7.91	8.05	7.65	7.91
										*	
Norway	5,79	5.75	7.42	6.81	6.74	6.76	6.76	6.77	6.73	6.70	8.77
Sweden	7.49	6.73	8.57	7.48	7.39	7.41	7.42	7.22	7.21	7.22	7.22
Switzerland	5.11	5.13	5.58	6.09	5.74	5.72	6.01	5.63	5.55	5.30	5.42
United Kingdom	7.97	9.16	10.70	10.84	10.38	10.26	9.99	9.36	9.22	9.09	9.19
Australia	7.25	7.50	8.25	9.25	9.25	9.25	9.25	9.00	9.60	8.75	e 50
South Airica			7.75		9.75	9.75	9.75	9.75	9.75	_9.75	9.75

3.0 INTRODUCTION

CHAPTER 3 WILL CONCERN ITSELF WITH FORECASTING THE U.S. BALANCE OF PAYMENTS FOR 1972. IN ORDER TO MAKE SUCH A FORECAST IT IS NECESSARY TO MAKE CERTAIN BEHAVIORAL ASSUMPTIONS REGARDING THE ACTIVITIES OF PRIVATE AND GOVERNMENTAL AGENCIES. Among such considerations would be: (I) Elasticities of U.S. supply and foreign demand for American exports, and the elasticities of U.S. demand for foreign supply of American imports; (2) different national aggregate economic real growty: (3) The term structure of interest rate differentials between the U.S. and the rest of the world; (4) marginal rates of return on direct investment between the U.S. and other nations; (5) expectations regarding. Currency revaluation; and (6) discretionary government, central bank, and other official (i.e., the IMF) monetary activities. These elements among others should be considered and integrated into a forecasting framework of the Balance of Payments.

3.1 BALANCE OF PAYMENT PERSPECTIVE IS FOR 1972 SUMMARIZED

IT WOULD NOT BE PRUDENT TO EXPECT THE BASIC BALANCE TO IMPROVE BY MORE THAN \$4.0 BILLION DOLLARS DURING 1972. THE DEFICIT OF TRADE FOR 1972 IS PROJECTED TO BE APPROXIMATELY - \$1.5 BILLION; HOWEVER, THE RESIDUAL ITEMS ON THE CURRENT ACCOUNT SHOULD ALMOST OFFSET THE MERCHANDISE ACCOUNT IMBALANCE. THIS MOST PROBABLY WILL BE A RESULT OF DISCRETIONARY ACTIVITIES BY THE GOVERNMENT, AND THE LOWER PURCHASING POWER OF U.S. FIXED INCOMES ABROAD. FOR EXAMPLE, IT IS SPECULATED THAT DEVALUATION WILL LOWER THE PROPENSITY OF INDIVIDUALS RECEIVING FIXED INCOMES FROM THE U.S. TO LIVE ABROAD. BARRING MAJOR U.S. INDUSTRIAL DISRUPTIONS, THE EFFECTS OF THE DEVALUATION SHOULD START TO EXERT A POSITIVE IMPACT ON U.S. TRADE IN THE FOURTH QUARTER OF 1972 AND A SMALL SURPLUS IN THE BALANCE ON CURRENT ACCOUNT IS EXPECTED FOR THAT QUARTER. AS NOTED IN

THE PREVIOUS CHAPTER, THIS REVERSAL WILL BE TOO LATE AND TOO LITTLE TO OFFSET THE IMBALANCE REACHED DURING THE FIRST THREE QUARTERS. ANOTHER REASON NOT TO ANTICIPATE A SIGNIFICANT IMPROVEMENT IN TRADE IN THE EARLY PART OF 1972 IS THAT THE U.S. ECONOMY IS EXPECTED TO SHOW SUBSTANTIAL. EXPANSION WHILE OTHER MAJOR INDUSTRIAL NATIONS AS A WHOLE ARE EXPECTED TO EXPERIENCE ONLY MODEST REAL ECONOMIC GROWTH IN THE PIRST HALF OF 1972.

3.2 MERCHANDISE TRADE: (-51.52 BILLION)

IN CURRENT DOLLARS THE WWARTON EFA 1972 ESTIMATE FOR EXPORTS IS \$77.8 AND FOR IMPORTS \$76.5. Using the national income accounts construct the balance of net exports of goods and services is \$1.3 billion. However, this figure includes items other than those that actually enter into what is more conventionally called the merchanoise balance. By taking the average historical time series percentage of merchanoise transactions entering into what is called (in the National accounting construct) "Exports and Imports", and combining this with the most recent Wharton E.F.A. forecast, it is computed that in 1972 U.S. exports in current dollars will be \$52.03, and imports \$53.55. The U.S. will thus show a deficit of \$1.52 billion dollars on its Merchandise account for 1972. However, this is considerably less than the deficit of \$2.91 billion for 1971. In addition, 1972 should show a further improvement, if, as economic analysis would suggest, price elasticities of U.S. exports over time become more elastic thus stimulating exports revenues.

3.3 CURRENT ACCOUNT (-\$0.5 BILLION)

IT IS EXPECTED THAT THE RESIDUAL ITEMS IN THE BALANCE ON CURRENT ACCOUNT WILL PARTIALLY OFFSET THE MERCHANDISE TRADE DEFICIT. THE ASSUMPTIONS HERE ARE THAT INCOMES FROM U.S. DIRECT INVESTMENTS ABROAD WILL CONTINUE TO SHOW MODERATE IMPROVEMENT AND THAT THIS INCREASE WILL BE SUPPLEMENTED WITH AN INCREASE IN TRANSFERS UNDER MILITARY AGENCY SALES CONTRACTS.

HOWEVER, THESE GAINS SHOULD BE OFFSET BY REPATRIATION OF FOREIGN EARNINGS IN THE U.S. AND INCREASED DOLLAR OUTFLOWS RELATED TO TRANSPORTATION AND TRAVEL. THESE CUTFLOWS WILL BE A DIRECT RESULT OF A MORE BULLISH U.S. ECONOMY WITH HIGHER CORPORATE AND INDIVIDUAL EARNINGS DURING 1972. THE NET EFFECT OF THE NON-MERCHANDISE ITEMS WILL BE POSITIVE, BUT NOT OF A LARGE ENOUGH MAGNITUDE TO OFFSET THE DEFICIT INCURRED THROUGH MERCHANDISE TRADE. HOWEVER, IT IS EXPECTED THAT, AS THE U.S. DEVALUATION TAKES 'HOLD', THE LATTER PART OF 1972 WILL SEE A HARROWING OF THE MERCHANDISE "GAP". THIS FORECAST IS PREDICATED UPON THE ASSUMPTION THAT BY LATE 1972 WESTERN EUROPE AND JAPAN WILL EXPERIENCE AN UPTURN IN THEIR REAL AGGREGATE GROWTH RATES AND THE U.S. WILL BE ABLE TO BENEFIT FROM ITS RELATIVELY LOWER PRICE STRUCTURE RESULTING FROM THE DOLLAR DEVALUATION. WHILE THE U.S. PRICE STRUCTURE IS STILL HIGHER THAN MOST OTHER TRADING NATIONS, ITS RATE OF INCREASE DURING 1971 WAS SLOWER. A CONTINUATION OF THIS PROCESS. IN CONJUNCTION WITH DEVALUATION WILL UNCOUBTEDLY HERALD A REVERSAL IN OUR TRADE ACCOUNT

TABLE 10
ASSUMPTIONS AND FORECASTS

Summary Table of the BALANCE OF PAYMENTS (1970-1972) (BILLIONS)

	1970	1971	1972
MERCHANDISE TRADE	÷2.1	-2.9	-1.5
CURRENT ACCOUNT	+0.4	+.7	5
LONG TERM CAPITAL	-3.4	-8.0	-4.0
BASIC BALANCE	-3.0	-8.7	-4.5
NET LIQUIDITY BALANCE	-3.8	-21.9	10.0
OFFICIAL SETTLEMENTS BALANCE	-9.8	-29.7	12.8

EXPLANATION: ELEMENTS IN SUMMARY TABLE

- 1. MERCHANDISE TRADE (BALANCE OF GOODS AND SERVICES)
 - (1) Goods
 - (2) SERVICES
- II. BALANCE ON CURRENT ACCOUNT
 - (1) MERCHANOISE TRADE
 - (2) REMITTANCES, PENSIONS AND OTHER TRANSFERS.
 - (3) U.S. GOVERNMENT GRANTS EXCLUDING MILITARY
- III. LONG-TERM CAPITAL
 - (1) U.S. Government Capital Flows, Net, and Non-Liquid Liabilities To other than oppicial reserve agencies
 - (2) LONG TERM PRIVATE CAPITAL FLOWS
 - IV. BASIC BALANCE (BALANCE ON CURRENT ACCOUNT AND LONG TERM CAPITAL)
 - (1) CURRENT ACCOUNT
 - (2) LONG-TERM CAPITAL
 - V. NET LIQUIDITY BALANCE
 - (1) IV-BASIC BALANCE
 - (2) NON-LIQUID SHORT-TERM PRIVATE NET CAPITAL FLOWS
 - (3) ALLOCATION OF SDR'S (STANDARD DRAWING RIGHTS)
 - (4) ERRORS AND OMISSIONS AND OTHER TRANSACTIONS
 - VI. OFFICIAL RESERVE TRANSACTIONS
 - (1) NET LIQUIDITY BALANCE
 - (2) SHORT-YERM PRIVATE CAPITAL FLOWS

TABLE 10 PRESENTS HISTORICAL DATA FOR 1970 AND 1971 AND THE BALANCE OF PAYMENTS FORECAST FOR 1972. THE FOLLOWING DISCUSSION REVIEWS THE RATIONALE FOR MAKING THESE PROJECTIONS.

3.4 THE BASIC BALANCE

IT WOULD SEEM REASONABLE, AS INDICATED IN THE ABOVE FORECASTS. TO EXPECT THE BASIC BALANCE TO SHOW SOME IMPROVEMENT IN 1972 OVER 1971. AS NOTED, THE TRADE AND CURRENT ACCOUNTS DEFICITS ARE EXPECTED TO SHOW A DECLINE (-\$1.5 BILLION AND -\$0.5 BILLION) FOR 1972, BUT LONG TERM CAPITAL OUTFLOWS ARE FORECAST TO REMAIN WELL BELOW THE RECORD OUTFLOWS OF 1971.

In the longer from it can well be expected that the U.S. Devaluation could favorably appect the merchandise trade balance by at least \$6 billion. However, based on experience with the Devaluation of the point sterling in November 1967 and mark revaluation of October 1969, it is felt that the full benefits to the U.S. from Devaluation will take proje three to four years to induce a substantial turn around in the balance on merchandise account. As already noted, a significant reason not to expect major improvement in the trade balance for 1972 is that the U.S. Economy will show a relatively greater momentum in 1972 than the other major industrial countries.

3.5 LONG TERM CAPITAL (-\$4.0 MILLION)

IT IS ASSUMED THAT NET LONG TERM PRIVATE CAPITAL FLOWS WILL DECREASE FROM -\$5.5 BILLION IN 1971 TO -\$1.8 BILLION IN 1972. THIS ASSUMPTION IS DASED UPON THE LOWER MARGINAL GROWTH RATES IN THE TRADITIONAL OUTLETS FOR U.S. LONG TERM INVESTMENTS VIS-A-VIS A STIMULATED U.S. ECONOMY.

THE MAJOR OUTLETS (BOOK VALUE OF ASSETS ALREADY ACQUIRED) FOR U.S. DIRECT INVESTMENTS ABROAD ARE (1) CANADA. (2) THE LATIN AMERICAN COUNTRIES.

(3) WESTERN EUROPEAN NATIONS, (4) AUSTRALIA. NEW ZEALAND AND SOUTH AFRICA AND (5) JAPAN. MOST OF THESE COUNTRIES, PARTICULARLY CANADA.

THE U.K., THE MAJOR NATIONS OF WESTERN EUROPE AND AUSTRALIA ARE ALL EXPERIENCING RELATIVELY SLOWER RATES OF REAL ECONOMIC GROWTH IN 1972 THAN THE U.S.

IN ADDITION, AS ILLUSTRATED IN TABLE 9. CAPITAL COSTS IN THE U.S. FOR LONG-TERM BORROWING ARE LOWER THAN THE TRADITIONAL U.S. INVESTMENT OUTLETS. Thus relatively higher marginal rates of return (increasing investment opportunities) and lower capital charges in the U.S. will be responsible for decreasing U.S. direct overseas investments and increasing foreign capital inflows via direct foreign investment and foreign portfolio acquisitions. These acquisitions will be in response to the bullish U.S. stock market where expectations of capital gains are high.

FURTHER IT IS BELIEVED THAT THE U.S. GOVERNMENT WILL TAKE STRONG DISCRETIONARY MEASURES TO RETARD ANY INCREASE IN "U.S. GOVERNMENT CAPITAL FLOWS". HOWEVER, BECAUSE THE PRICE OF FOREIGN GOODS AND SERVICES HAS BEEN INCREASED RELATIVE TO THE DOLLAR, IT IS DOUBTFUL THAT ANY DISCRETIONARY ACTIVITIES WILL BE STRONG ENOUGH TO LOWER THIS OUTFLOW BELOW ABOUT —\$2.0 BILLION.

IN SUMMARY LONG-TERM CAPITAL IS MAINLY A FUNCTION OF MARGINAL DIFFERENTIALS IN RATES OF RETURN ON CAPITAL, HIGHER NATIONAL INCOMES, DISCRETIONARY

GOVERNMENT CAPITAL OUTFLOWS, ETC. THE U.S. ECONOMY IN THE EARLY STAGES

OF A RECOVERY CYCLE CAN BE EXPECTED TO BE STIMULATED BY BOTH DOMESTIC AND
FOREIGN INVESTMENT DUE TO THE WIDENING AND DEEPENING INVESTMENT OPPORTUNITIES AND LOWER CAPITAL CHARGES. HOWEVER, AS THE RATE OF GROWTH STABILIZES

AND U.S. CORPORATE RETAINED EARNINGS SWELL, IT CAN BE EXPECTED THAT THERE

WILL BE A GREATER PROPENSITY FOR U.S. INVESTMENTS TO SPILL OVER INTO

FOREIGN MARKETS. THIS WILL BE REINFORCED BY THE EXPECTED RECOVERY OF MOST

MAJOR ECONOMIES IN LATE 1972. IN SUM THERE WILL BE A SLOWING OF THE PROCESS

NEEDED TO BRING U.S. LONG TERM CAPITAL FLOWS INTO THE BREDS, AS THE YEAR

PROCEEDS. ALSO, U.S. IMPORT DEMANDS, WHICH ARE PROJECTED TO INCREASE

IN 1972 AS NET U.S. DISPOSABLE INCOME INCREASES, WILL ACT AS A ECONOMIC

STIMULUS TO MANY FOREIGN ECONOMIES

COUNTRIES WHERE NET EXPORTS ARE LARGELY TO THE U.S.

¹ ESPECIALLY AFTER EXCESS CAPACITY IS ABSORBED

² FOREIGN TRADE MULTIPLIER

3.6 NET LIQUIDITY BALANCE (\$10.0)

THIS ITEM, WHICH MEASURES CHANGES IN U.S. RESERVE ASSETS AND IN PRIVATE and official net liquid claims on them. Has been highly "volatile" over THE PAST TWENTY FOUR MONTHS. THE TWO MOST ACTIVE COMPONENTS WERE (1) THON LIQUID SHORT-TERM CLAIMS ON FOREIGHERS" (-\$1.015 MILLION IN 1970 TO -\$1,848 MILLION IN 1971) AND (2) "ERRORS AND OMISSIONS AND OTHER Transactions" which was \$-9.0 billion in 1970 and approximately -\$22.0 BILLION IN 1971. THERE IS GREAT DIFFICULTY IN IDENTIFYING THE MANY COMponent items in this account. Especially dispiculi to identify were many of the short term capital flows during 1971. Some of these flows were INTEREST SENSITIVE. POSSIBLY SS MILLION. WHILE APPROXIMATELY SIZ MILLION was mainly speculative with a potential for repairmation. In 1972 it seems reasonable to assume that with higher foreign interest hates, and the CURRENT EXPANSIONARY MONETARY POLICY OF THE "FED". LEADING TO GREATER domestic liquidity, only about \$4 billion of these so called speculative funds" WILL RETURN. SHOULD THE "FED" ADOPT. RELATIVELY EARLY IN 1972. A more stringent monetary policy this amount could be in excess of \$4.0 BILLION. FURTHER. IN THE ABSENCE OF SPECULATIVE PRESSURES IN 1972, IT IS ASSUMED THAT NET "NONLIQUID SHORT TERM CLAIMS ON FOREIGNERS" WILL decrease by \$0.4 billion. With a slowing of the rates of international CURRENCY FLOWS. "ERRORS AND OMISSIONS" (EXCLUDING "OTHER STEMS") SHOWND DECREASE BY ABOUT \$6.8 BILLION IN 1972.

- 3.7 THE OFFICIAL RESERVE TRANSACTIONS (\$19.8)

 THE OFFICIAL RESERVE SETTLEMENTS TRANSACTIONS INCLUDE:
 - (1) NET LIQUIDITY BALANCE
 - (2) SHORT TERM PRIVATE CAPITAL FLOWS
 - (A) SHORT TERM LIQUID CLAIMS REPORTED BY U.S. BANKS
 - (B) SHORT TERM LIQUID CLAIMS REPORTED BY U.S. NON-BANKING CONCERNS
 - (C) U.S. LIQUID LIABILITIES TO FOREIGN AGENCIES

THE NET LIQUIDITY BALANCE FOR 1972 HAS BEEN FORECAST UNDER OUR SET OF ASSUMPTIONS AT -\$10.0 BILLION. ITEMS 2(A) AND 2(B). WHILE HISTORICALLY EXHIBITING CYCLICAL FLUCTUATIONS, HAVE BEEN RELATIVELY INSIGNIFICANT WHEN COMPARED TO (2(C)) **U.S. LIQUID LIABILITIES TO FOREIGNERS*. IT IS ASSUMED THAT IN 1972, WITHOUT THE SPECULATIVE PRESSURES OF DEVALUATION, THIS ITEM WILL BE APPROXIMATELY IN THE SAME CROER OF THE 1970 FLOW AND THAT THE NET BALANCE ON "SHORT TERM PRIVATE CAPPTAL FLOWS" WILL BE IN THE MAGNITUDE OF \$3.8 BILLION.

3.8 SUMMARY

THE SLOWING DOWN OF NET SHORT-TERM CAPITAL OUTFLOWS FOR 1972 IS PREDICATED UPON:

- (1) A RENEWED COMPIDENCE IN THE NEW EXCHANGE RATES. WITH THE MAJOR WORLD TRADING NATIONS COMMITTED TO 'HOLDING THE LINE'

 IT APPEARS SAFE TO SAY THAT THESE NEW RATES, WITH POSSIBLY SOME ALTERATIONS (SUCH AS THE YEN), WILL HOLD THROUGH 1973.

 IF THIS CONFIDENCE DOES MATERIALIZE, THEN THERE SHOULD BE A SLACKENING IN SPECULATIVE CUTFLOWS.
- (2) THE RECOVERY OF THE U.S. ECONOMY AND THE GROWTH OF INVESTMENT OPPORTUNITIES SHOULD ENCOURAGE A LARGE PERCENT OF THE PURELY SPECULATIVE, NON-INTEREST SENSITIVE, FLOWS TO BE REPATRIATED.
- (3) THE RETURN OF THESE SPECULATIVE MONIES SHOULD ALSO BE ASSISTED BY A PREDICTED CLOSING IN THE INTEREST DIFFERENTIALS. THIS CLOSING HAS ALREADY STARTED TO TAKE PLACE AND SHOULD CONTINUE AS A RESULT OF A RESURGENT ECONOMY, AND POSSIBLY AS RESULT OF TIGHTER MONETARY POLICIES THAT ARE PREDICTED FOR LATE 1972.

 FURTHER, IT IS BELIEVED THAT WESTERN EUROPE AND JAPAN WILL EXPAND THEIR MONETARY SUPPLY IN AN EFFORT TO GET THEIR ECONOMIES MOVING. THIS WILL HAVE THE EFFECT OF LOWERING THE INTEREST

¹This assumes an implicit cost in excess of returns to U.S. speculators in Decrementing their real balance by Leaving them abroad.

STRUCTURE IN THEIR MONETARY MARKETS. THEREBY ACCELERATING THE CONVERGENCE IN THE RATES BETWEEN THE $U_{\star}S_{\star}$ AND ITS MAJOR TRADING PARTNERS.

THE CONSERVATIVE ESTIMATE IN NET SHORT TERM CAPITAL OUTPLOWS WAS BASED ON THE LEADS AND LAGS INMERENT IN ANY ECONOMIC PHENOMENA TAKING EFFECT. IT IS THOUGHT THAT THESE NET CAPITAL OUTPLOWS, IF THE ABOVE ASSUMPTIONS HOLD TRUE, WILL BE APPRECIABLY REDUCED BY 1973.

4.0 OBJECTIVES

THIS SECTION WILL CONCERN ITSELF WITH A GENERAL REVIEW OF THE CURRENT INTERNATIONAL MONETARY CRISIS AS IT AFFECTS THE AIRLINE INDUSTRY. SOME EXAMPLES OF ANTICIPATED EFFECT ON THE INDUSTRY AND INDIVIDUAL AIRLINES ARE DISCUSSED. HOWEVER, NO PRETENSE IS MADE THAT ALL POSSIBLE REPERCUSSIONS ARE CONSIDERED. THE MAIN THRUST OF THIS SECTION IS TO REVIEW THE CURRENT DISEQUILIBRIUM CONDITIONS ON THE AIRLINE INJUSTRY INHERENT TO MAJOR CURRENCY REVALUATIONS AND TO SUGGEST THE BASIC CONCEPT TO BE USED IN DEVELOPING AN AGGREGATE MODEL FOR PREDICTING THE FUTURE DEVELOPMENT OF TRAFFIC IN THE CONTEXT OF A NEW SET OF CURRENCY REALIGNMENTS. AND GOVERNMENT CONTROLS ESTABLISHED AND THE NEW ECONOMIC POLICY (N.E.P.).

4.1 BACKGROUND

ON SATURDAY. 18 DECEMBER 1971, IT WAS ANNOUNCED THAT THE U.S. WOULD IN TERMS OF GOLD OFFICIALLY DEVALUE THE DOLLAR BY 7.88 PERCENT. FURTHER, CONCURRENT WITH THE U.S. DOLLAR DEVALUATION THERE WILL BE OFFICIAL.

APPRECIATIONS OF THE OTHER MAJOR CURRENCIES. THIS LATTER ACTION WAS
TIED TO A RESCINDING OF THE U.S. 10 PERCENT IMPORT SURTAX. THE NET
EFFECT IS APPROXIMATELY A 15 PERCENT DEPRECIATION OF THE U.S. DOLLAR.
IN THIS VEIN. IT IS WORTH NOTING THAT BECAUSE OF DIFFERENCES IN THE BALANCE
OF PAYMENTS AND IN THE VALUATION OF THE VARIOUS NATIONAL RESERVE STRUCTURES.
A UNIFORM INTERNATIONAL REVALUATION COULD NOT BE EXPECTED.

THE BASIC REASON FOR LONG-TERM DISEQUILIBRIUM IN THE BALANCE OF PAYMENTS BETWEEN COUNTRIES IS THE PERPETUATION OF AN ARTIFICIAL MECHANISM WHICH AFFECTS STABILITY IN INTERNATIONAL TRANSACTIONS. COUNTRIES NORMALLY REACT BY HOLDING GOLD, SRDs, AND FOREIGN CURRENCY RESERVES AND THEREBY KEEP THE RELATIVE EXCHANGE RATES "STABLE". IN THE CONTEXT OF A WORLDWIDE SYSTEM OF FREE CURRENCY EXCHANGE, THERE WOULD BE NO DISEQUILIBRIUM. THE ADJUSTMENT WOULD THEN AUTOMATICALLY OCCUR THROUGH CHANGES IN THE

RELATIVE EXCHANGE VALUATIONS. THE MAJOR OBJECTIONS TO A WORLD OF FREE FLOATING EXCHANGE RATES COME FROM BANKERS AND BUSINESSMEN WHO MAINTAIN THAT THIS SYSTEM WOULD MAKE IT DIFFICULT TO DO BUSINESS ACROSS INTERMATIONAL BOUNDARIES. THE ARGUMENT HERE IS THAT THE INTERTEMPORAL NATURE OF TRADE COMMITMENTS REQUIRES A STABLE SET OF EXCHANGE RATES.

IT IS FELT THAT FLUCTUATING RATES WOULD INHIBIT INTERNATIONAL TRADE. IN ADDITION, NATIONS ARE RELUCTANT TO SURRENDER CONTROL OVER THEIR EXCHANGE RATES, SINCE MARKET REVISIONS IN THE RELATIONS OF CURRENCIES HAVE FARM REACHING EFFECTS ON PRICES. INCOMES, EMPLOYMENT, AND THE STRUCTURE OF INDUSTRY.

THEORETICALLY, A DEVALUATION OF THE DOLLAR SHOULD RAISE THE PRICE OF FOREIGN GOODS AND SERVICES AND HENCE INHIBIT DOLLAR OUTFLOWS BY CURTAILING IMPORTS, FOREIGN TRAVEL, TRANSFER PAYMENTS, U.S. INVESTMENTS ABROAD, ETC. SYMETRICALLY A DEVALUATION SHOULD LOWER THE PRICE OF U.S. GOODS AND SERVICES BY STIMULATING U.S. EXPORTS, (E.G. AIRCRAFT), FOREIGN TRAVEL TO THE U.S., FOREIGN INVESTMENT IN THE U.S. ETC., THEREBY STIMULATING FOREIGN CAPITAL INFLOWS. SUCH AN ADJUSTMENT PROCESS CAN GO AWRY IF THE VARIOUS CURRENCY DEMANDS ARE INELASTIC. THIS WOULD BE THE CASE WHERE THE DEMANDS FOR THOSE GOODS AND SERVICES THAT ENTER INTO INTERNATIONAL TRANSACTIONS ARE THEMSELVES INELASTIC. THIS IS AN IMPORTANT CONSIDERATION FOR MOC IN TERMS OF ITS POTENTIAL MARKET FOR AIRCRAFT SALES.

4.2 IMPACT ON TRAFFIC AND AIRLINE REVENUES

A.2.1 ELASTICITY CONCEPT AS APPLIED TO THE AIRLINE INQUSTRY

A MODIFICATION IN THE EXCHANGE RATE STRUCTURE WILL AFFECT THE

COST OF AIRLINE TRAVEL VIS—A-VIS OTHER COMMODITIES AND THE

RELATIVE COST OF TRAVELLING TO DIFFERENT DESTINATIONS (DOMESTIC

AND FOREIGN). THESE MODIFICATIONS IN RELATIVE PRICES (SUBSTICTUTION EFFECT) WILL INDUCE A REALLOCATION OF CONSUMER PATTERNS

AND IN PARTICULAR A REDISTRIBUTION OF TRAFFIC FLOWS. RESIDENTS
OF COUNTRIES WHOSE CURRENCY HAS RELATIVELY APPRECIATED. SUCH AS
AUSTRALIA. GERMANY. JAPAN. ETC.. WILL FIND IT CHEAPER. TO VISIT
FOREIGN COUNTRIES WITH LOWER CHANGES IN THEIR EXCHANGE RATES.
CONVERSELY. THE OPPOSITE IS TRUE FOR RESIDENTS OF A DEPRECIATED.
CURRENCY COUNTRY SUCH AS THE U.S.

THE GLOBAL EFFECT OF A CURRENCY REALIGNMENT ON TRAFFIC WILL ULTIMATELY DEPEND UPON THE ELASTICITY OF TRAFFIC DEMAND WITH RESPECT TO FARES EXPRESSED IN COMBTENT DOLLARS (VIELD) AND THE DEGREE OF REVALUATION. TABLE I SUMMARIZES THE EFFECTS OF TRAFFIC DEMAND TO BE ANTICIPATED FROM AN ACTUAL FARE CHANGE AND THE FINAL EQUILIBRIUM POSITION. AFTER THE ADJUSTMENT PROCESS MAG TAXEN PLACE.

Under the existing rate-determination mechangim, exchange variations will result in both external and internal repercussions on the airline industry. The most salient external effect pertains to an airline's ability to generate foreign travel and thus international currency inflows. The internal effects are reflected on the balance sheet of the airlines.

TABLE II ILLUSTRATES THE IMPACT ON AIRLINE REVENUES AND TOURIST EXPENDITURES RESULTING FROM TRAFFIC AND ACTUAL FARE INCREASES.

Thus an airline with an inelastic demano function[®] in the case of a fare increase³ will experience a decrease in revenue

Passengers and an increase in revenues. Should the airline¹s demand function be elastic, a fare hike will cause a decrement in both revenue passengers and airline revenues. In the case of an airline that offers a fare decrease there will be an increase

¹ EXPRESSED IN CONSTANT DOLLARS

²Unless otherwise stated, elasticity of demand in this paper is travel elasticity with respect to fare (price).

³ IN CONSTANT DOLLARS

TABLE 11 EFFECTS OF FARE CHANGES ON TRAVEL

			1 7	\ ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	A D (P +)	M D A (Pt)	A (PT)	(→ L) ∩
	TRAVEL FROM APPRECIATED	TRAVEL FROM DEPRECIATED	DOMESTIC TRAVEL	DOMESTIC TRAVEL
	CURRENCY AREA TO DEPRE-	CURRENCY AREA TO APPRE-	WITHIN APPRE-	WITHIN DEPRE-
ELASTICITY OF TRAVEL	CIATED CURRENCY AREA	CIATED CURRENCY AREA	CIATED AREA	CIATED AREA
WITH RESPECT TO FARE	(E.G. EUROPE-U.S.)	(E.G. U.S. TO EUROPE)	(E.G. EUROPE)	(E.G. U.S.A.)
INELASTIC	JR = (+)	JR (†)	4 (1)	18 = (1)
	17:=(1)	(*) L7	. (†) ₹	3T = (1)
	$\Delta TE = (\uparrow)$	JTE (+)+	JDER (+.)	3DER (1)
Fig		age, soft as		
ELASTIC	0 11 127	∆R = 0	0 11 00 0	D M M
	(1) 17	(t) = 17	(†) = LV	(t) = L7
	3TE (1)	1 +(+) = 1 + T	ADER = (1)	JDER (:)
		the same of the sa	N	The state of the s
ELASTIC	1	11		
	(t) = F1	(†) = L∇	(1) = 17	11 21
	JTE (1):	∆7E (↓)+	LDER = (;)	ADER = (1)
	The second se	Charles in the finisher of details and more of the company of a company of a company of the comp	· · · · · · · · · · · · · · · · · · ·	angeringen iggebreiteten er inge, begelen peleten propert soper er ingeber en propert erhanten ernen her er ermingen

TE = TOURIST EXPENDITURES

DER = EXPENDITURES BY RESIDENTS ON DOMESTIC TRAVEL

*EXPRESSED IN CONSTANT DOLLARS

IN REVENUE PASSENGERS CARRIED AND A DECREMENT IN REVENUES IF ITS DEMAND FUNCTION BE DEMAND FUNCTION BE ELASTIC THEN BOTH REVENUES AND REVENUE PASSENGERS WILL INCREASE.

TABLE 12 SUMMARIZES SOME EMPINICAL RESULTS REGARDING TRAFFIC ELASTICITY WITH RESPECT TO PARES.

Table 12 AIR TRANSPORTATION SOME ESTIMATED PRICE ELASTICITIES BY INVESTIGATOR

DAC - ECONOMI	c R	ES!	Z AAR	CH	DE	Par	TM	ENT"	0	W.F	e il	LE.	ANO	N	orr	15)					
U.S. DOMESTI	C																				
TOTAL DOME	ST	ıc	•		Đ	٠			•		. 0	6.	e c	•			•			d i.	-1.4
AMERICAN				e	•													6			-1.5
EASTERN .											6				to to	•-	. •		•		-1.9
TWA																					-1.0
UNITED .																					-1.4
BRANIFF .																					
CONTINENTA																					
DELTA																					-1.0
NATIONAL.																					-1.4
ALLEGHENY				e	•		٠	4	٠			• .	•	•	•		•	•	٠.		-1.4
STRAZHEIM - N	lor.	тн	Ατι	ma.	TIC					,											
TOTAL DEMANO	(1	948	65	5).				•	. •	•	•.	•			٠.		•	. •	•		-2.00

EXAMPLE AVAILABLE ON REQUEST.

IATA FARE INCREASE NEGATED IN U.S. BY PRICE BOARD ANOTHER CASE THAT MERITS CONSIDERATION IS A SITUATION WHERE IATA MEMBERS WOULD AGREE ON A FARE INCREASE, WHICH WOULD THEN BE NEGATED OR PARTIALLY RESCINDED IN THE U.S. BY THE PRICE BOARD. THIS COULD LEAD TO A DIVERGENCE IN RELATIVE FARES BETWEEN COUNTRIES. SHOULD THIS OCCUR, A TICKET SELLING AT THE NEW IATA rate in a foreign country could possibly generate more revenues. FOR THE AIRLINE THAN A TICKET OVER THE SAME ROUTE BUT SOLD IN THE U.S. Thus there would be a possible reallocation of sales EFFORTS BY THE AIRLINES TO INDUCE MORE TRAVEL IN THE HIGHER FARE AREA. SUCH AN ACTION BY THE PRICE BOARD COULD BE INCONSISTENT WITH THE NEW ECONOMIC POLICY (N.E.P.) GOALS IF THE DEMAND FOR FOREIGN TRAVEL BY U.S. RESIDENTS IS ELASTIC WITH RESPECT TO FARE. IN THIS CASE, IT WOULD INCUCE MORE FOREIGN TRAVEL BY U.S. RESIDENTS AND MORE TRAVEL EXPENDITURES ABROAD: ALSO THE RELATIVE PROPIT POSITIONS OF THE AIRLINES WOULD BE AFFECTED DEPENDING UPON THE DISTRIBUTION OF THEIR SALES BETWEEN RESIDENTS AND NON-RESIDENTS.

4.2.2.

4.2.3. FARE DIVERGENCES AND MULTI-CARRIER ROUTES UNDER THE NEW CURRENCY REALIGNMENT AND WIDER EXCHANGE BANDS

AN ADDITIONAL PROBLEM IN THE GENERAL CONTEXT OF THIS STUDY ARISES WHEN A CARRIER SELLS A TICKET IN THE U.S. OVER A ROUTE WHICH REQUIRES A CHANGE TO A FOREIGN CARRIER. IN THIS CASE AIRLINES HAVE TRADITIONALLY AGREED TO TRANSFER A PERCENTAGE.

OF THE FARE PAID TO THE INITIAL CARRIER TO THOSE CARRIERS THAT MAKE POSSIBLE THE COMPLETION OF THE TRIP. THIS TRANSFER OF FUNDS IS BASED UPON A PROPATING FORMULA. UNDER THE NEW RULES PERTAINING TO THE FLUCTUATIONS OF EXCHANGE RATES, CURRENCIES MAY FLUCTUATE WITHIN A RANGE OF \$\pmu 2.25 percent (Versus the OLD RANGE OF \$\pmu 1.00 percent). This combined with a fixed fare

STRUCTURE WILL MAKE THE STANDARD PROPATING FORMULAE MORE
DIFFICULT TO IMPLEMENT. UNDER THIS CURRENT PRO-RATING SCHEME
AND FIXED FARES, THESE WIBER FLUCTUATIONS IN CURRENCY EXCHANGE
RATES WILL CAUSE A REDISTRIBUTION OF AIRLINE REVENUES AMONG
PARTICIPATING CARRIERS. IT IS CONCEIVABLE THAT AIRLINES INCURRING A LOSS OVER A SUSSTANTIAL PERIOD OF TIME WOULD WANT TO
IMPLEMENT COUNTERACTING STRATEGIES. THIS COULD LEAD TO A
CHAIN OF RETALIATORY ACTIONS.

4.3. IMPACT ON IATA

IATA MAY HAVE BECOME A BVICTIME OF THE VICISBITUDES OF THE Current international monetary crisis and the U.S. New ECONOMIC POLICY. SINCE WORLD WAR II IATA'S FOWER TO SET RATES. AND EFFECTIVELY CARTELIZE THE INTERNATIONAL AIRLING industry, has been steadily eroded by (1) its inability to restrict entry of new carriers mainly as a result of bilateral agreements. And (2) its inability to enforce decisions. IATA DECREES CAN BE OVERTURNED OF IGNORED BY SUCH ACTIVITIES AS recourse to ³open fares⁸. Bilateral agreements on fares and SCHEDULES. FURTHERMORE, ANY FARE INCREASE FOR FLIGHTS originating in the U.S. will have to be correspent with the DECISIONS OF THE PRICE BOARD. THE DEMISE OF CARTELS HAS MISTORICALLY BEEN CHARACTERIZED BY THEIR INABILITY TO RESTRICT ENTRY AND EROSION OF ENFORCEMENT POWERS ESPECIALLY IN REGARD TO RATE MAKING. THE RECENT HISTORY OF THE AIRLINE INQUSTRY SKOWS THAT IT IS BECOMING MORE PRICE COMPETITIVE AND LESS FORMALLY STRUCTURED. THE SAME COMPETITIVE FORCES ARE AT WORK IN OTHER PARTS OF THE WORLD. THE PROLIFERATION OF NATIONS AND NATIONAL AIR-LINES IN ASIA, AFRICA, AND THE PACIFIC ARE FURTHER CONSTRAINING THE EFFICACY OF IATA. THUS THE N.E.P. AND THE CURRENCY REALIGNS MENT AND THE CONTINUING CRISIS STATUS IN THE FIXED EXCHANGE SYSTEM WILL BE ADDITIONAL BURDENS TO IATA. IT IS DOUBTFUL THAT

IATA WILL SUFFER A SUDDEN DEMISE, BUT ITS DAYS AS AN EFFECTIVE RATE—REGULATORY BODY SEEM ON THE WAHE. IF THE ATLANTIC EXAMPLE IS A GOOD INDICATOR, IT IS LIKELY THAT THE INDUSTRY WILL BECOME INCREASINGLY PRICE COMPETITIVE WITHIN A MUCH LESS FORMALIZED STRUCTURE. IF THIS TENDENCY WERE TO MATERIALIZE, THERE WOULD BE AN ADDITIONAL INCENTIVE TO INVESTIGATE TRAVEL ELASTICITIES WITH RESPECT TO PARKS, IN ORDER TO PREDICT FUTURE TRAVEL PATTERNS. IN ADDITION, SINCE ALL AIRLINES OFFER A SLIGHTLY DIFFERENTIATED PRODUCT (AND ARE PRICE SEEKERS) SUCH A STUDY WOULD BE HELPFUR. IN PROVIDING INFORMATION REGARDING AN AIRLINE'S OPTIMAL RATE STRUCTURE. SUCH AN ARMAYSIS SHOULD ALSO YIELD RESULTS, WHICH COULD PROVE HELPFUR. IN ASSISTING.

5. IMPACT OF CURRENCY REALIGNMENT ON THE AIRFRAME MANUFACTURING INDUSTRY (A300-B PROGRAM)

5.0. INTRODUCTION

This section will consider only the immediate specific effects of the general currency realignments since 1969 upon the price structure of the A300-B Program. During this period there were many currency revaluations, the most notable in the context of the A300-B Program. Being the French devaluation of 1969 and the overall currency realignment of 18 December 1971. This analysis will exclude the effects of the price escalation formulae used by the vanious countries participating in the program. In addition, the possibilities of international factor substitutions. Changes in base prices, revisions of escalation formulae, wealth and income effects, the role of government subsidies, etc., will not be considered. However, it is recognized that a full review of the A300-B Program would require that these facets, and many more, be integrated into any investigation purporting to be a comprehensive investigation of the Long-run effects of currency realignments on the A300-B Program.

TABLE 13 "COMPARATIVE PRICE CHANGES DUE TO CURRENCY REVALUATIONS"

COMPARES THE JANUARY 1969 PRICE OF THE A300—B, EXCLUDING THE U.S. MADE PODS AND ENGINES. AT THE EXCHANGE RATE PREVAILING THEN AND AT THE CURRENT EXCHANGE RATE. IT SHOULD BE NOTED THAT BETWEEN THESE TWO DATES THERE WAS CONSIDERABLE VARIATION IN THE RATES AS QUOTED IN TABLE 13.

THE MOST SIGNIFICANT CHANGE IN ANY OF THE PARTICIPATING NATIONS EXCHANGE RATES, EXCLUDING THE GENERAL SMITHSOMIAN CURRENCY REALIGNMENT OF 18 DECEMBER 1971, WAS THE CONSIDERABLE DEVALUATION OF THE FRENCH FRANCE (-11.11 PERCENT) ON 8 AUGUST 1969. This 1969 DEVALUATION EXPLAINS WAY

^{*8} MAY 1972

THE PRICE OF THE FRENCH PART, EXPRESSED IN U.S. DOLLARS, DECLINED EVEN THOUGH THE FRANC APPRECIATED RELATIVE TO THE DOLLAR ON 18 DECEMBER 1971 (†3.57 PERCENT). FURTHER, THE CENTRAL BANK OF FRANCE, SINCE THE SMITH—SONIAN ACCORD, HAS ALLOWED A TWO TIER INTERNATIONAL EXCHANGE SYSTEM TO EXIST, WHEREBY THERE IS A "COMMERCIAL" RATE AND "FINANCIAL" EXCHANGE RATE FOR THE FRANC. THE BANGUE DE FRANCE PERMITS THE "FINANCIAL" RATE TO FLUCTUATE THE FULL RANGE OF THE SMITHSONIAN MARGINS (†2.25 PERCENT). HOWEVER, IT ACTIVELY INTERVENES TO MAINTAIN THE "COMMERCIAL" RATE AT APPROXIMATELY A 0.20 (\$/F) DOLLAR/FRANC RATIO.

5.2. EXCHANGE RATE VARIATION PRICE INCREASES - A-300B

TABLE 13 ILLUSTRATES HOW THE 1969 COMPUTED PRICE OF THE A300-B, EXPRESSED IN U.S. DOLLARS, INCREASED DUE TO THE POST JANUARY 1969 SERIES OF CURRENCY REALIGNMENTS. THE AGGREGATE PRICE INCREASE IN U.S. DOLLARS FOR THE AIR-FRAME (EXCLUDING POOS) WAS 11.52 PERCENT. THE PRESENT SYSTEM OF PAYMENT FOR THE A300-B REQUIRES THAT EACH PARTICIPATING MARLIFACTURER. BE PAID DIRECTLY BY THE CUSTOMER IN THE NATIONAL CURRENCY OF THE MANUFACTURER. HOWEVER, AN AIRLINE CONTEMPLATING THE PURCHASE OF AN A300-B WOULD MAINLY BE CONCERNED WITH THE AGGREGATE PRICE (SEE TABLE 13) EXPRESSED IN THE NATIONAL CURRENCY OF THE AIRLINE. THUS A U.S. AIRLINE WOULD HAVE TO PAY A HIGHER TOTAL PRICE FOR THE A300-B AS A RESULT OF THESE CURRENCY REALIGNMENTS. AS OF TODAY THERE HAVE BEEN NO STATED CHANGES IN PRICE FORMULAE TO ADJUST FOR CURRENCY REALIGNMENTS.

5.3. SUMMARY

SOME OF THE MOST OBVIOUS IMMEDIATE SHORT-TERMS EFFECTS OF THE CURRENCY REALIGNMENTS ARE:

AN IMPROVEMENT IN THE COMPETITIVE STATUS OF U.S. AIRFRAME

MANUFACTURERS PRODUCING A SUBSTITUTE PRODUCT (E.G. DC-10) FOR

THE A300-B.

- AN INCREASED INDUCEMENT FOR THE EUROPEAN NATIONS PARTICIPATING IN THIS PROGRAM TO CONTINUE PURCHASING U.S. BUILT PARTS FOR THE A300-B.
- A POSSIBLE DISINCENTIVE TO MULTINATIONAL COOPERATION IN AN ENVIRONMENT OF FLUCTUATING EXCHANGE RATES, ESPECIALLY IF NO ALLOWANCE IS MADE IN THE PRICE ESCALATION CLAUSES FOR SUCH CHANGES. THIS IS PARTICULARY TRUE FOR THE FRENCH IN TERMS OF THE U.S. MARKET. USING THIS EXAMPLE. THE PRICE OF THEIR INPUTS TO THE ASOO-B HAS BEEN EXOGENOUSLY INCREASED BY 11.11 PERCENT DUE LARGELY TO THE VERY SIGNIFICANT INCREASE IN THE DOLLAR/MARKI (\$/M) EXCHANGE RATE.

As mentioned above, this analysis touches only lightly upon the most obvious immediate effects of devaluation on the A300-B Frogram. It would not be difficult to envisage changes in the current program involving. New price escalation formulae, substitution of lower cost inputs for higher cost (or national redistribution of effort), Government interventions in the term of grants and subsidies, etc. It would seem safe to assume however, that the participating nations in the A300-B Frogram will act to counter any real cost disadvantage that devaluation may have upon their international sales effort for the A300-B.

TABLE 13
EFFECT OF CURRENCY REALIGNMENT ON PRICE OF A300-B

and the second state of th	-	·						
						PERCENTAG		}
	PRICE EXPRESSED	1	SE RATES	1	E IN U.S. \$	§	IPATION	CHANGE IN COS
4	IN DOMESTIC	RELATIVE	TO U.S.\$	AT DIFFERENT E	EXCHANGE RATES	1	-	IN U.S.\$
NATION	CURRENCY	1969	1972*	1969	1972	1969	1972	DUE REALIGHM
			冰卡			Party Yalida		
FRENCH PART	18,719,540	.20210	.20000	3,783,219	3,742,908	39.61	35,15	- 1.04%
I RENCH I ART	(FRENCH FRANCS)	1202.0						
	(FRENCH FRANCS)							
								
U.S. PART	743,688	1.000	1.000	473,688	473,688	5.00	4.40	0
	(U.S. DOLLARS)							
0			*				markan kana beraran kenangan kana beraran kana beraran kana beraran kana beraran kana beraran beraran beraran	
GERMAN PART	15,460,795	.2500	.3149	3,865,199	4,868,604	40.47	45.71	+ 25.90%
• ,	(GERMAN MARKS)					e de la companya de l		
					manus della suna pilubakon dels mininte quadri e missa principa		n de la colonia de la colonia de la coloni	
				- ·				
BRITISH PART	599,495	2.3844	2.6120	1,429,436	1,568,880	14.97	14.70	₹ 0.95%
	(BRITISH POUNDS)							:
					Obredies demokrafi englesskeres (Selecter edenokrafier) en benedenskeres etc in en en segen e			
							***	4
TOTAL	NOT APPLICABLE	N.A.	N.A.	9,551,539	10,652,089	100.00	100.00	+ 11.52%
								(= WEIGHTED
								AVERAGE)
			A de la constantina del constantina della consta	A bear announce and the same of the same	- in this case of the Court of the same of the control of the same of the control	in the state of th		

^{*8} May 1972 SPOT RATE

^{**} COMMERCIAL RATE

^{***} ROUNDING

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