Table 15

227

utositi. 💎 🖽

118W 1890 30 1 - 644

. n.v

U.S. AND JAPAN CONTRIBUTIONS TO CHANGES IN VINNELLE DE MODECO PHILIPPINE IMPORT PRICE INDEX AND EXPORT VALUE, 1971-1976

drikasost sloval

which categories the book against the last

account from a value or exper-

Export value radio de la compansión de) regation constructions are progrational galagie; and the second .290 .636 1.072 1.281 United States .411 er a so judici no na na June 1 at a to come that and will de-ុត: .322 .198 -.815 .402 Japan .818

Table if the cart estimates a trained a test of the contract o

Based on export unit value for manufactures from the two countries.

Source: Calculated by the author as described in the text. Only and the countries are considered by the author as described in the text. Only and the construction of the constru

the United States and Japan. Overall, significant export instability is attributable to the United States during 1974-1976; on the other hand Japan contributed heavily in 1972 and, in the opposite direction to the total export change, in 1976.

The trade balance figures given in the last line of Table 16 indicate that Philippine trade with the United States has consistently been on the surplus side during the period, except in 1975 when sugar exports fell drastically due to the loss of preferential treatment among U.S. importers with the expiration of both the Laurel-Langley agreement and the U.S. Sugar Act in the preceding year. Among other important export products to the United States, copra ceased to be exported significantly beginning 1974, giving way to the expansion of coconut oil exports to the United States. Shipment of canned pineapples has also increased substantially since 1973 despite the observed downturn of the U.S. economy.

While imports from Japan continued to increase during the period (cf. Table 17), export receipts suffered progressive cuts immediately after the export boom of 1973-74. The result was a continuous deterioration of the Philippine trade balance with Japan from the \$156 million surplus in 1973 to a deficit of \$355 million in 1976, the latter amount representing more than one-third of the total merchandise trade deficit for that year. The principal export commodities heavily dependent on the Japanese market, viz., logs and lumber, copper concentrates, molasses and bananas, appear to

³⁰It is worth noting that the value of Philippine exports to each of these two countries declined slightly in 1972 and relatively sharply in 1975. In 1976, however, exports to the United States increased even as exports to Japan declined further.

Table 16

estronomical de la estretación de la comoción de la Secretación de Secretación de Secretación de la estretación

Control of the first of the second of the se

PHILIPPINE TRADE WITH THE UNITED STATES, 1971-1976 TOTAL TOTAL

Item afa en ased vinasei	1971	1972	1973	1974	1975	1976
_ ary or ased vice vita	merch (Service)	<u> </u>	<u>eri seti diti</u>	san ilangs di s		
Imports	aredwo 119	M sir R Lu	er og fra kringer	<u> 1</u>	n. abin e .	į×r .
(\$ million)	291.2	312.6	449.5	733.0	754.3	801.
\$ million) constant, so . S. a regular a.						
Exports		general form		1.50 - 1.50 1.50 - 1.50	11 'Y	11/4
(\$ million)	459.5	446.6	676.0	1,156.7	664.3	924.
S million)	(40.4)	(40.4)	(35.8)	(42.5)	(28.9)	(35.
Sugar (thousand m.t.)	1,344.7	1,210.9	1,410.7	1,275.6	*328.7 D	960
	(100.0)	(100.0)	(95.7)	(82.7)	(33.8)	(65
production (North Laboration of the	: :00 kr	- Lie madi	a de la traditional	1 (8)	VEN T.	
Copra (thousand m.t.)	187.2	222.4	211.3	10.0		-
n la em di masta em vini la	(27.0)	540 (24.0)	(28.8)	(3.7)	tier til til 1966.	
Coconut oil (thousand m.t.)	ে ক্ৰাণ	Da i Hall	r instr	A Sever	efer of the	igs. S
(thousand m.t.)	292.8	336.3	271.7	298.2	473.8	556.
	(73.7)	(72.2)	(63.6)	(71.7)	(77.1)	(64.
pointer of paints of	1,774	ont inseq	n nik, tilli	J. 1. 3. 3 · 1. 2.	For Supplied States	
Pineapple (thousand m.t.)		الأناف والإيالة المرمو	e, established		in the same and the	4.4
thousand m.t.)	55.1	13 53.3°	40.6	79.3	86.1	138
de sein er goden sam s	(54.9)	(49.3)	(44.7)	(63.3)	(74.0)	(70. ∵⊝∶
rade balance						
(\$"million)	168.3	134.0	226.5°	423.7	-90.01	122
ant one coprosenting	the section	e de la companya de l	golffia 27	içê fo mir	dlab s	1975

Numbers in parentheses are percentages of total imports or expor . The section of the year. The section of the secti

were then one-thind of the tetal member is a trace to lode for that year.

of masqr . m.t. metric ton. Pr (see also also) seeks a seek . Siv

Central Bank of the Philippines, Annual Report (1976) and Sources: Statistical Bulletin (December 1975).

The constant of the figure is $157 \times 157 \times 10^{12}$ or 1975. In this case, we expect the 1975 of the constant of the specific of the specific 1975×10^{12} or 1975×10^{12} or

and the state of t

ing. Tali selat ti<mark>es a</mark>an in jedi**al**i in m

er er er er og skalt og af elltaging i Lo

e is varying degrees.	n in Japa	- 57 -	sted by the	ely affec	en adronso	ed ഗു
		Table 17	1			
PRILIP						
j _{es} that contract	oikdug yl	ebiv as:	oi (somur	, dy r	900 to 1	ຄາຣດ ບຸກ່າ
edution to gain Item vaevasen_bgants_v:			vd hatsloi 1973		1975	197
Imports o sancaxe en				***		- abrievii.
(C 1111a-)	359.1	390.8	518.5	864.6	966.3	⁹⁷⁶
(noillim e)	(303)05	8) (31.8)	Truomis . 5)	(27.5)	(27.9) is (27.9)	.02) w agu
narret, shirments troux (nillin \$)	nal U.S.	qualitio	edi ĝo tuo	Think or	rusi <mark>, y</mark> fr i st	(TEMPS)
the high degree of	(35.1)	(33 . .8)	(35.8)	(34.8)	(37.7)	(24.
Bananas (thousand m.t.)	(99.8)	412.0 (97.5)	ड ं 158.0 708.3 1	644.4	741.8 (90.2)	. 701 ઇ લ્ક્ર ાહ
201-1701 guirub themtaevo	thy $_{ m L}$ for	concest it	ans oreci.	ingerencia.	ven to em	mut ad
(thousand m.t.)	(80.7)	ਾਰੋ(81.4)	e (88:0) e	(93.8)	ba (85 23)	ni(478
Molasses emaga said	ews sri.	ryd bans:	loan assist	11. (C)	The par	eriod.
(thousand m.t.)	392.8 (80.8)	325.9 (91.5)	549.5 ingi (90.7)	612.8 (93.5)	589.6 (87.5)	n.a Sut the
rade balance	v dagab o	1976 fm	nirub 🖭 🖽	23	.liry,	instabi
(\$ million) Lolle luemevorgent						
THE COLOR COLOR COLOR	Thad or	TOWNYSVEC	Wer and o	r serrigion.	ly be attr	1972 ma
Notes: Numbers in paren the year.	theses ar	re percent	ages of to	tal impo	rts or ex	ports f
metric to metric	assista n	neman.a	ો≐ hot ava	ilable III	Si The gra	
Sources: Central Bank o	f the Phi	lippines	Annual Re	port (19	76) and 🖫	officia
. ed ase viacinicial nu		CCCIIDEL .	is a material.			ALEMANUETE SCHAFT

have been adversely affected by the recession in Japan in varying degrees. Logs and lumber exports show a sharply declining trend beginning 1973. The downturn for molasses and bananas came in 1975 and 1976, respectively. In the case of copper concentrates, it was widely publicized that contract obligations were being violated by Japanese importers trying to reduce inventories at the height of the recession; by 1976 a fairly strong recovery of copper exports seemed underway. While 55% of Philippine exports of sugar went to Japan in 1975 (amounting to \$320 million), which constituted a remarkably large shift out of the traditional U.S. market, shipments in 1976 fell precipitously to \$20 million, illustrating the high degree of uncertainty attending export sales of this commodity.

Table 18 gives data on capital inflows from Japan and the United States in the form of development loans ³¹ and net direct investment during 1971-1976. The terms of development loans are concessional, with interest rates mostly within 3-5% and maturities between 10 to 50 years inclusive of the grace period. The pattern of loan assistance by the two countries seems erratic, but there is no evidence of a significant effect of the recent economic instability, except possibly during 1976 for Japan which indicates a sharp drop. In the case of direct investments, the substantial improvement after 1972 may be attributed to the new investment climate engendered by the

Record to reproduce the control of the state of the transfer X of the control of

The grant component of development assistance from bilateral sources to the Philippines has been relatively small, as exemplified by the amount of official grants from the United States averaging less than one million dollar annually during 1971-1976 according to Central Bank data). From multilateral sources, principally U.N. agencies, the average annual grant flow has been slightly above \$12 million during the same period.

Table 18

DEVELOPMENT LOANS AND DIRECT INVESTMENT, 1971-1976
(in million U.S. dollars)

	1972	1973	1974	1975	1976
28.88	69.12	26.20	36.50	50.06	70.68
48.56	57.07	61.74	56.20	60.35	33.01
-1.21	-13.16	51.23	36.41	112.64	47.77
0.56	-1.31	0.25	8.30	13.59	17.74
	48.56	48.56 57.07 -1.21 -13.16	48.56 57.07 61.74 -1.21 -13.16 51.23	48.56 57.07 61.74 56.20 -1.21 -13.16 51.23 36.41	48.56 57.07 61.74 56.20 60.35 -1.21 -13.16 51.23 36.41 112.64

^{*}Includes PL 480 loans.

Sources: MEDIAD and Department of Economic Research, Central Bank of the Philippines (unpublished).

es of ars

976.

imposition of martial law which, as noted earlier, also served to countera any recessionary effects.

61 11.8Y

V. Policy Responses

In reacting to the unwaysly covere economic fluctuations in the exsector in recent years, Philippine policymakers have had to contend also we some exogenous internal developments occurring during the period under studies needs to be taken into account in the present discussion for a proper understanding of the conduct of economic policy from 1971 to 1976. Some reference would also be necessary to the policy adjustments made in the early part of 1970 which effectively set the stage for later policy decisions.

assessment of the policy actions taken as described below, together with to overall performance of the Philippine economy, is provided in the last part of this section.

1. Monetary and fiscal policy

€a.8±

38.3

3 C . . .

As part of the stabilization program implemented in 1970 to accompant the defacto peso devaluation, a policy of monetary and fiscal restraint was adopted to reduce domestic liquidity and counter the anticipated inflation pressure. Reserve requirements against deposit liabilities of all banks were raised (by 2% in January and by another 2% in April), rediscount ceil of commercial banks were lowered and disqualifications from Central Bank recount windows were made. The overall effect was to hold down the growth of money supply to a modest 6.2%. Domestic credits of the monetary system increased by 10.9%, which a major shift in credit pattern from the public the private sector in support of foreign exchange-earning production active

I you can 62% medical"

-Tapan

A sharp reduction in public works and other government expenditures resulted in a net receipt of \$\mathbb{P}107\$ million in its cash operations in 1970 (in contrast to an operational deficit of \$\mathbb{P}934\$ million in 1969).

Restrictive monetary policy continued through the third quarter of 1972, at which time two internal developments caused a policy shift toward expansion. In July and August a series of strong typhoons and floods brought heavy damage to the major food-producing agricultural regions, prompting the adoption of a Calamity Financing Program which could lend up to \$200 million to financial institutions operating in the stricken areas. In September, following the proclamation of martial law, "the Central Bank extended some \$375 million to banks on an emergency basis in order to allay uncertainty among the general public", preventing "the large withdrawals of bank deposits experienced during the first weeks of martial law from escalating into a major bank run" (Central Bank Annual Report 1972; p.4). The result was a 24% rise in money supply and a 17% increase in domestic credits in 1972, roughly double the corresponding increases in the preceding year. Fiscal policy apparently still aimed at reducing inflationary pressures even as expanded expenditures for reconstruction and rehabilitation had to be made; "the increase in domestically-generated money was basically a result of increased credits to the private sector as the substantial growth in government balances made the public sector a disinflationary factor" (Central Bank Annual Report 1972; p.6.).

The shortfalls in rice production during 1970-72 due to the occurrence of typhoons, floods and plant disease, together with the failure to procure adequate rice imports, weighed heavily on the inflation experience during the period (Bautista, 1976). In May 1973 the government embarked on a massive

credit expansion and fertilizer subsidy program called "Masagana 99" to accerate the recovery from damages to food crops and also in support of the 1 held objective of food self-sufficiency. This program was designed for sm farmers to obtain production credit without collateral, avail of improved extension services and use modern farm practices. In the first six months the program's operation, a total credit of \$\mathbb{P}365\$ million was extended. The major sources of credit were rural banks and the Philippine National Banks government-owned commercial bank), funds being made available through rediscounts with the Central Bank.

as a reaction to the unparalleled expansion of the external sector which experienced an overall surplus of \$664 million in the balance of payments. The Central Bank reduced its own credit operations, raised reserve requirements on marginal deposits on letters of credit, imposed reserves on deposit substitute liabilities and sold in open market operations \$20 billion worth. Certificates of Indebtedness (CBCIs) of Current transactions of the national government resulted in a surplus of \$2.4 billion owing to an unprecedented increase in operating receipts of 85% due to the record-setting dollections by the Bureau of Internal Revenue and Bureau of Customs (attributable to sold administrative tax and tariff reforms), while operating expenses rose by on 30%. Mainly as a result of the large surplus in the external account, mone supply expanded by 21%, total domestic credits increasing by 16%.

The severe inflation being experienced in 1974 motivated anew the day adoption of contractionary monetary and fiscal policy. To moderate the expension of domestic liquidity, the Central Bank transacted net sales of close

to encourage longer term supply of investible funds. However, credit allocation to rural areas continued to be encouraged in support of on-going food production programs (Masagana 99 for rice production and the newly-introduced Masaganang Maisan for corn), as higher maximum loans per hectare were set and banking institutions were required to set aside a minimum of 25% of their loanable funds for agricultural credit purposes. There was a consequent growth of domestic credits by 31% in 1974, the highest in 25 years. Money supply registered an increase of 28% despite a substantial operating surplus of \$2.8 billion in the government's cash operations; this is partly due to the overall balance of payments surplus of \$110 million in 1974 as substantial inflows from nonmerchandise and capital accounts compensated for the trade deficit of \$418 million.

IJ.

do

oni

b= 13

roi:

0.77

ins

10

Two tax policy measures introduced in the 1970s enabled the government to capture a portion of the windfall profits resulting from the export bonanza of 1973-74. The first derived from the Stabilization Tax Law of 1970 which imposed temporary taxes on traditional exports from 4 to 10% ad valorem) to siphon off the gains from the February devaluation; this law was subsequently repealed but the export taxes were made permanent effective July 1, 1973 by its inclusion in the Customs and Tariff Code. Moreover, in February 1974, President Marcos announced the imposition of/higher additional tax on the premium derived by several export commodities from price increases which began in 1973. Rates of this premium export duty, ranging from 20 to 30%, were applied to the difference between the ruling export price and the base price as of February 1974 determined by the Bureau of Customs. When the

commodity price boom ended later in the year, the premium tax became ineffective (except for sugar in 1975), and even the regular export tax was temporar withdrawn on export commodities hardest hit by the world recession such as copper concentrates, wood products and cement. Table 19 gives the amounts of export and premium taxes collected each year during 1970-1976.

With inflation showing signs of substantial deceleration in 1975 and 1976, expansionary monetary and fiscal policy served to compensate for the deflationary impact of the balance of payments deficit. Liquidity-increasing measures were adopted by the Central Bank, whose credits expanded (by December 1976) nearly three times the 1974 level. While there was continued support to food production programs, Central Bank loans and advances went up sharply due "mainly to increased borrowings on the part of the Government Service Insurance System (GSIS) for hotel assistance and other government financial institution for hotel financing under repurchase agreement" (Central Bank Annual Report 1976; p.13). Total domestic credits increased by 38% in 1975 and 24% in 1976. In the latter year the national government incurred a deficit of \$1,850 million in its cash operations, which was 2 1/2 times the deficit in 1975, relying chiefly on the issuance of Treasury bills and oth government securities—which has an expansionary influence on money supply. Overall, money in circulation increased by 14% in 1975 and 17% in 1976.

asmon nobbe reducid Vio emission opti ente per cuent a constitue of partit your res 2. Foreign exchange policy

The Philippine peso was already in a floating rate system when the on 00 to displace to the proper decision which is not a straight of the world's key currencies was initiated in the early and the early of this decade. The foreign exchange rate, by which is normally meant and heady amount in the early of the peso-U.S. dollar exchange rate, depended on the results of interbank

assuernal color mora his bound of the several except of bound of the second of the second of the second of the

Table 19

EXPORT AND PREMIUM TAX COLLECTIONS, 1970-1976

(in million pesos)

Year	Stabilization Export Tax	Premium Export Tax	Total
1970	396.8	-	396.8
1971	548.7	_	548.7
1972	403.2		403.2
1973	286.9	-	286.9
1974	867.7	891.4	1,759.1
1975	581.8	872.9	1,454.7
1976	442.0	130.3	572.3

Source: Revenue Collection Office, Central Bank of the Philippines (unpublished).

, madu in

rily

trading, commercial banks taking "the initiative in influencing or respondito demand and supply conditions in foreign exchange, particularly during the early months of the peso's release in the market" (Central Bank Annual Reportance post) on February 21, 1970. Exchange rates of the peso with other foreign currencies were determined on the basis of the spot buying and selling rates in New York of these currencies vis-a-vis the U.S. dollar at the end the day preceding the actual purchase or sale in Manila.

While it has been officially claimed that a free exchange market was created and that the Central Bank would refrain from intervening in the for exchange market, the latter (or an agent bank acting on behalf of the Central Bank) "stood ready to provide exchange at the current rate to maintain the stability of the exchange rate" (Central Bank Annual Report 1971; p.70). 1972, for example, the amount transacted by commercial banks was \$240.3 million; during the same period the Central Bank sold foreign exchange amount ing to \$129.0 million and bought \$59.2 million. It is also worth noting the exchange rate was allowed to float only within 4 1/2% below or above the interbank guiding rate, which is a weighted average of exchange rates for sales made in the preceding day.

The Central Bank's effective control of the peso-U.S. dollar exchange rate is also evident from the remarkable stability of the guiding rate during the period August - December 1971 (cf. Appendix Table 4) at the height of dollar's weakening position in international exchange markets. A freely fing peso would have shown some improvement in its exchange rate with the dash has taken place in the Hong Kong exchange market which showed new lows the December exchange rates of the peso with the U.S. dollar (note cross-rate).

from P6.870 in November to P6.808 in December and telegraphic cross-rates from P6.887 to P6.808). However, in the latter part of 1973 when the dollar was again being depreciated relative to other important currencies, there was a discernible improvement in the peso exchange rate. This might have been due to the substantial improvement in the country's balance of payments in a year in which the Central Bank transacted a net purchase of foreign exchange amounting to more than \$300 million.

The Central Bank circular that introduced the floating rate also restricted the importation of certain types of commodities and remittance of invisibles, and placed capital movements under Central Bank control. In the September 1972 a presidential decree restricted foreign travel by residents and from October to December other measures were adopted against blackmarket ing of foreign currency. In 1973, the year which established a record sur-IN April 1970 THOUSE C plus in the balance of payments, there was some liberalization of rules affectliks meldadd. ing foreign exchange transactions, e.g., those on foreign borrowings by export-2000 70th. oriented and pioneer industries, remittance of royalties or rentals on tradeof Found VI. : £5 marks, patents and copyrights, and repatriation of foreign investments. -Lisa agaires vià ct

As one might expect, this movement toward foreign exchange liberalization was reversed in the subsequent years of worsening balance of payments as various Central Bank circulars and memoranda were issued requiring, among other things, "prior referral to the Central Bank" of an increasing number of commodity imports. It is surprising however that the Philippine peso has not depreciated substantially. Only on two occasions (during October-November 1974 and June-August 1975, which showed a 3.73% average monthly rate of increase of the peso-dollar rate) did the exchange rate exhibit any sign of volatility. This

would seem to indicate relatively successful intervention efforts by the Bank in trying to achieve a stable movement of the exchange rate. More f mentally, however, the high level of international reserves being maintai (above \$1.0 billion since March 1974) and the adequacy of the Central Ban standby credit lines have provided the safeguards against speculative act in the foreign exchange market.

is by When a High relative earns will see b.

i Programma i professioni

ah andron ippede verki in

3. Direct controls

re the common be builded as a disciden-

During the period under study the government intervened to control and wages in a variety of ways. Also in response to the recent external an increasing role was assumed by the government in the supervision of an participation in production and marketing activities, which the broad pow of martial law had facilitated.

The Price Control Law in the Philippines was enacted in April 1970 following the sharp price rises induced by the devaluation and was extend reflecting the perceived need to contain the inflationary pressure in mor years, by Congress in 1971 and by presidential decrees in 1973 and 1975. It established the Price Control Council, which was empowered to fix maximum ing prices of several basic commodities representing in principle the of production (or landed cost, if the commodity is imported) plus specific markups for the producer (or importer), wholesaler and retailer Enforcement of these price ceilings was through legal penalties, i.e., imprisonment affines. For certain commodities like rice and fertilizer, price control was a second of the second of these price ceilings was through legal penalties, i.e., imprisonment affines.

istritaatikiligu. Orle et toe ordoralons tiering duresen doe doe of an

The commodity list has included rice, corn, fresh meat, canned sugar, flour, milk, cooking oil, plywood, common drugs, galvanized iron slaundry soap, writing pads and notebooks, antibiotics and kerosene, among

o otic, level cover amenic inter-TOPE TENSOUTH THE also sustained by government subsidies and, under conditions of severe short--Lucearc of transaction า 25 ราย กระบบกระบบ ค**น แอ**โก ages, rationing had been resorted to -- as in the recent past for rice, gasoabiy sparek ny vo akajena a shor indused former: line and diesel fuel. The practice of "socialized pricing" served to provide contains oction Mitte common to the filling self-self colors low ceiling prices for certain types of goods consumed by poor families at the objective occase or social mise objects of 1975; a circum with the same time that more expensive grades were left uncontrolled. In the same worldwide grains anontage, the government was thable in which demests nice spirit, rents on dwellings not above \$300 per month were frozen in 1972 (and ourput by sdequet constant Perhaps reflecting the perception of the authorstill in force currently).

ities about the tal.

refer trade to supply food and the need for

les

ces

ks,

cent

The protection of low-income groups has been the principal motive not conly of government price control but also of wage regulation. In 1970 the minimum daily wage rates were adjusted significantly upward to: \$\mathbb{P}8\$ for non-agricultural employees (from the previous level of \$\mathbb{P}6\$), \$\mathbb{P}6\$ for sales and service employees in "small" establishments (of not more than 5 workers); \$\mathbb{P}5\$ for local government employees; and \$\mathbb{P}4.75\$ for agricultural workers. The pressure to raise wages was also felt during the more recent inflationary period. In 1974 the national government found it necessary to initiate the granting of an emergency allowance of \$\mathbb{P}50\$ per month for every employee with a monthly income of \$\mathbb{P}600\$ or less; this was made mandatory for all employers eventually. A 10% increase followed for all national government employees effective July 1, 1975, while private employers were required to give an extra one month's pay annually. The Wage Commission had also issued orders for several industries to adopt specific minimum wage rates higher than the national level. 33

esident during the period whose study silustrated by the imposition of

Namely, \$\mathbb{P}12\$ for jeepney transport in Metro Manila, \$\mathbb{P}9.20\$ for copra, \$\mathbb{P}9.25 \text{for products, and \$\mathbb{P}6.80 \text{ and }\mathbb{P}11.00 \text{ for agricultural and }\mathbb{P}25 \text{ processing activities in the sugar industry.}

Particularly after the imposition of martial law, government intervention in critical areas of the Philippine economy has been increasing, presum ably spurred by the exogenous shocks emanating from the external sector. With respect to food supply, self-sufficiency has become an overriding polic objective. Because the local "rice crisis" of 1972-78 coincided with the worldwide grains shortage, the government was unable to augment domestic ric output by adequate imports. Perhaps reflecting the perception of the author ities about the unreliability of foreign trade to supply food and the need f the country to be self-reliant, several food production programs, starting with Masagana 99, were launched, involving massive credit and fertilizer sub sidy schemes. Other measures were adopted to complement these programs. By General Order No. 47 corporations employing more than 500 workers were requi to grow rice for sale to their employees at government-controlled prices. Fertilizer Industry Authority was established in 1973 and given control over all aspects of trade, manufacturing, allocation and pricing of fertilizer; two-tiered price system was maintained soon after, with a much lower price of fertilizer for use in food production (at 15% below import cost) compared to that destined for export crops. In June 1975 importation of the country's wheat grain requirements became an exclusive concern of the National Grains Authority (which already has existing monopoly over rice and corn trade) by presidential decree to insure "effective price stabilization at minimum cos

Greater government intervention in the market for export crops is all evident during the period under study, illustrated by the imposition of floor prices for exports of copra and coconut oil in August 1974 as described about the expiration of the Laurel-Langley agreement and the U.S. Sugar Act

1974, terminating therefore the privileged position of Philippine sugar exports to the United States, the government took control of marketing sugar for export. In that year of phenomenal increases in the international price of sugar the Philippine Exchange Company (PHILEX), 34 which became the sole exporter of sugar, was authorized to set the price at which it buys sugar from the millers. PHILEX had been instrumental in the diversification of the sugar export market, shifting out of the United States to new markets such as Japan, Russia, Algeria and China, and in the negotiation of five-year supply contracts beginning 1977 with two large U.S. sugar refiners. Exporting of logs was also recently subject to government regulation. A presidential decree in 1974 scheduled a phasing out of log exports as a means promoting the domestic processing of logs and exporting of wood products. However, enforcement of the complete ban, which should have started on January 1, 1976, has been deferred because of the need for foreign exchange; currently, log exports are allowed to comprise 25% of total hardwood timber exports.

ired

he

Spurred by the oil crisis of late 1973, the government established the Philippine National Oil Corporation (PNOC) which in January 1974 purchased

PHILEX is owned by the government's Philippine National Bank, which already controlled the domestic marketing of sugar at the time.

The American refining firms are Sucrest and Great Western United. The former contracted for shipments of 500,000 to 589,000 metric tons; the latter signed for 317,500 to 589,700 metric tons. In addition, for 1976, Imperial Refining Company contracted for 136,000 to 272,000 metric tons. The terms of sale are not public knowledge but the contracts are apparently being renegotiated in view of the unexpected movements in the price of sugar in the world market.

Exxon's shares of the large Bataan refinery (with a production capacity ab 40% of the national total) along with the marketing operations. For the f time therefore the government had a substantial direct role in petroleum refining and distribution. The PNOC has been negotiating oil supply arran ments directly with countries not previously exporting oil to the Philippi with an eye to diversifying the country's crude oil sources. Thus government to-government supply contracts account now for about 45% of crude oil requirements compared to zero in 1973. Oil imports from the Middle East, which splied 95% of the country's total requirement in 1973, contributed only 75% 1976, the rest coming from Indonesia (12%), Malaysia (7%) and China (6%). Finally, to ensure delivery of the contracted oil supply, the PNOC acquired three tankers capable of carrying half of the country's crude oil imports.

Pricing policy on petroleum products has very roughly followed the rates of increase in the import price of crude oil supplied since October, 1973. For instance, regular gasoline was selling in Metro Manila stations at 11.40 per liter in 1976; this represented more than a four-fold increase over the pre-October 1973 price of 1.33 per liter. Taxes (net of subsidi on diesel oil and gasoline, which comprised 47% of total consumption of pe eum refining products in 1973, were raised by less than 25%, relatively st rea and yellowned six tax rate changes applying to the other products (Bautista, 1976). Due to acute shortage of supply for about a month in early 1974, gasoline ration a targeral de mais Salago de l namych had to be resorted to, and was done in a fairly orderly fashion through t galaminisk i dinegmi newly-formed "barangay" units (submunicipal districts). real notal postidoppedad que se estaeta

Jodens transmission or mages for s

į

In planning for the country's long-term energy requirements, 36 government (through the Energy Development Board, created by presidential decree in March 1976) has aimed at reducing the dependence on imported petroleum from 95% of total energy needs in 1975 to 72% by 1985 and 53% by the year This is mainly to be achieved by an accelerated development of nuclear, geothermal and hydroelectric energy sources. Two nuclear power plants of 620 megawatts capacity each, ten 52 megawatts geothermal units and several hydroelectric power plants of varying capacities will be introduced over the period from 1977 to 1989. The first nuclear power plant, which will be operational by June 1982, is expected to supply 16% of the total energy requirements in Luzon where the bulk of Philippine industrial activity is situated. The estimated cost of the project is \$1.1 billion, for which the National Power Corporation (a state enterprise) has to put up an equity contribution of \$208.4 million, said to be the largest single commitment ever undertaken by the Philippine government. The rest of the financing for the nuclear project will extended come from loans/by the U.S. Export-Import Bank and a consortium of foreign commercial banks.

While the energy plan does not assume eventual discovery of oil in commercial quantity, exploration activities have been encouraged in recent years. In particular, two presidential decreees have liberalized the requirements for foreign participation in the search for indigenous petroleum deposits. The

The present discussion of the Philippine energy plan draws heavily from the sectoral reports of the Energy Committee presented at the "International Conference on the Survival of Humankind: The Philippine Experiment", held in Manila, September 6-10, 1976. These reports have been published in Energy for Development by the Energy Development Board.

"production sharing" system has replaced the "concession" as the mode of arrangement between the government and oil exploration companies since 1973.

By the end of 1976, twenty-four wells have been drilled, mostly offshore, by foreign and domestic companies at a reported total cost of \$200 million. This was highlighted by the first discovery in March 1976 of significant amounts of oil in the NIDO I well in Northwestern Palawan, followed by a second discovery made at the Reed Bank some 240 kilometers from NIDO I in July 1976.

4. Bilateral and multilateral arrangements

In recent years the Philippine government has intensified its efforts in promoting the diversification of export markets and import sources as an ad hoc response to the trade fluctuations confronting the economy. In part due to favorable political developments of the period, much headway has been gained in developing trade relations with Communist countries and in exploring various areas of trade cooperation with other AFAN member countries.

Government-to-government transactions with socialist countries in

Eastern Europe have increased markedly, the most dramatic growth in trade

flows (exports plus imports) being with Russia -- from zero in 1971 to a

total amount of US\$89 million in 1976. It is worth noting that in the latter

year sugar was the main export commodity. Philippine trade with China in the

postwar period did not begin until 1971; by 1976 exports have reached \$43.6

million, while imports amounted to \$53.8. The bulk of China's purchases consisted of lumber and wood products, while Philippine imports included signiticant amounts of crude oil. These transactions were facilitated by the

operation of the Philippine International Trading Corporation, a state enter
prise created in 1973 to serve in part as a central clearing house for bulk

trading and financing involving non-traditional trade partners. Although such trade flows did not account for a large portion of Philippine foreign trade (only 3.5% in 1976), they involved particular commodities of special interest to the Philippines in recent years of trade instability.

Philippine trade with other ASEAN countries (Indonesia, Malaysia, Singapore and Thailand) has also been relatively insubstantial, constituting 5.2% of the total value in 1976. Certain decisions taken in recent ASEAN meetings may lead however to expanded intraregional trade in future, particularly in certain basic commodities (rice and crude oil were the first two such commodities identified) "through preferential trading arrangements, priority of supply and priority of purchase ... in times of shortage and of oversupply, respectively". 37 The first industrial cooperation program that already has five large-scale projects allocated to the member countries and being expanded to include other industrial projects can be expected also to contribute eventually to export market and import supply diversification of Philippine trade. Additionally, various other measures toward ASEAN trade cooperation are being studied, viz., long-term (quantity) supply contracts, purchase finance support at preferential interest rates, preference in government procurement and extension of tariff preferences. Reflecting also the anxiety among ASEAN countries about common trade problems, machinery has been established for dialogues with other countries or regional groupings such as Australia, New Zealand, Canada, the United States, Japan, EEC and

Quoted from the Report of the Second Meeting of the ASEAN Economic Ministers, Kuala Lumpur, March 8-9, 1976.

COMECON. THAT I I BE SEED TO THE FIRST BE GROWN TO CALL BY STANFORD TO SEED TO THE SECOND OF THE SECOND SEC

These recent activities to promote bilateral and multilateral trade arrangements are significant for the Philippines, having lost preferential treatment for its exports to the United States with the expiration of the Laurel-Langley agreement in July 1974 and the U.S. Sugar Act in December 1974. While the Philippine and U.S. governments are currently negotiating a treaty to replace the Laurel-Langley agreement, cit looks doubtful whether substantial concessions are forthcoming beyond that given to developing countries generally through the Trade Reform Act. There has also been an official move, well publicized during the April 1976 visit of President Mar to Tokyo, for a renegotiation of the existing bilateral treaty of amity, commerce and navigation with Japan that would allow, among other things, Philippine export products preferential treatment in the Japanese market. The largely "colonial" nature of trade relations with Japan has also been pointed out, Japan mainly importing raw materials and exporting manufacture goods -- fostered by high tariff rates on manufactured products that effect ively keep processed exports of the Philippines out of the Japanese market (cf. Bautista and Tecson, 1975). This has become a sore point in recent years of increasing trade deficits with Japan and action to secure of the secure of th

Finally, it is worth noting that the Philippines became a member of GATT in 1973, thus receiving since most-favored-nation treatment in its mullateral trade relations. The government has also embarked on tax negotiation and investment treaties with key trading and investment partners; the benefaccruing to foreign investors include the elimination of double taxation, provision for tax credits and protection of investment.

5. An assessment

Reflecting public concern about the usually high rates of inflation experienced since 1970, the government's Four-Year Development Plan, FY 1974-77 declares that for the Plan period "all efforts shall be exerted to keep prices from increasing beyond 8 per cent per year" (p.27). As indicated above, the consumer price index began to increase at unprecedented rates with the onset of the "oil crisis" -- only a few months after the start of the Plan period. The Price Control Law showed immediate signs of ineffectiveness, as petitions by local producers and importers for price increases of commodities subject to price regulation were filed with and invariably approved by the Price Control Council. Indeed it appears doubtful whether the free market price would have been different from the imposed ceiling price, which tended to be revised frequently. While existing monopoly power had perhaps been discouraged from raising prices indiscriminately in the short run, consumers had not been protected from quality deterioration of the product being sold and contrived reduction in supply in order to stress the need for price ceiling adjustment. "Socialized pricing" only led to the discouragement of production of goods consumed by low-income families. The Rent Control Law fixing apartment and house rentals of at most \$300 per month provides a glaring example: since 1972 a significant shift in building expenditures has occurred toward luxury residential houses and high-rise buildings at the expense of low-cost housing (Stretton, 1977).

Granting that there was limited scope to moderate the externallyinduced inflation, wage policy could have responded more actively to protect
the real income of laborers which, as shown above, has deteriorated sharply.

The wage and salary adjustments actually made were simply not adequate to match the erosion of purchasing power during the recent inflationary period. The role of government in safeguarding the welfare of workers is made necessary by the fact that only a small portion (10% in 1971) of the total employed are members of labor unions and an even smaller fraction (1.3% in 1972) are dovered by existing collective bargaining agreements (Encarnacion et al.,1976) Also, under martial law, strikes, picketing and group assemblies of workers have been prohibited. More generally, an important area of policy to deal with the inflation problem concerns the need to offset the redistributional inequities of rising consumer prices (Bautista, 1976; pp.201-202). In the Philippine context it would appear that this has been neglected in a significant way.

tended to be revised eneggeth of White existing approprise page page aphaps It might be argued that one reason behind the dramatic decline in the been disc imaged from maising primes indicate francial and the man inflation rate in 1975-76 was the absence of a price-wage spiral, so that if raligh drations with an early mother than which early the temporary geod dear bed browner wages were allowed to rise commensurately, the high inflation rate would solve the second second of the is not borne out by past experience: no significant correlation was observed by Treadgold (1969; p.197) between annual percentage changes in CPI during disarm gen at . To mean the bilettern respect the remaining that is 1955-1965 and corresponding changes in either the wage rate index for unskille trial workers or the index of average monthly earnings. This would industrial workers or the index of average monthly earnings. acompress remared numbers of distinction or and the passes and the control of the seem to indicate some scope for the share of nonwage income to vary in the errense of the desuble of (Spreading 1977) short run. As indicated above, the main factors that brought forth the sharp

Granting loat frame was included that wrieters to externally

However, because price and wage changes during the observation period were relatively moderate, the possibility of a more sensitive price response to large wage increases cannot be ruled out.

fall in inflation rate during 1975-76 were the downswing in import and export prices and the marked increase in food supply.

The overall conduct of monetary and fiscal policy has mostly been in reaction to the country's balance of payments and certain internal developments during the period. However, the observed biases in the pattern of public expenditure and credit availment have effectively benefited two sectors, namely, food production since 1973 and tourist-related construction activities in 1975-76. Given the declared objective of food self-sufficiency, it was necessary that public works be oriented to agricultural infrastructure development and credit facilities be slanted to the financing of food production. Indeed, the consequent improvement in food output has contributed to the slowing down of inflation after 1974. It is more difficult to see the economic rationale for the huge expenditures in hotel-building and other touristoriented projects financed through loans by government financial institutions, considering the latter's high opportunity cost. As it turned out, a large overcapacity in Lotel buildings was created, which may not be utilized until after 1980 (Stretton, 1977). One might claim that, as Singapore has demonstrated in the early 1970s, such tourist facilities would eventually pay their way. Whether this may apply in the Philippine context, only time can tell.

It is possible of course to rationalize the encouragement of construction activities generally as a counter-cyclical policy measure in 1975 and 1976 to offset the decline in foreign demand. The Philippine economy might not have performed as well during this period of world recession without such stimulation of internal demand. However, one's presumption would still be that there were production activities (e.g., low-cost housing) other than

hotel building, the active promotion of which would at least have entailed less foreign exchange disbursement and more employment creation.

windfall profits from both the 1970 peso devaluation and the export boom of 1973-74 through the introduction of the stabilization export tax and the export premium tax. The important thing about these tax measures is their selectivity, i.e., larger windfall profits were taxed relatively more. While there is merit in such a system (assuming that government spending contributes to social welfare more than the spending of export producers), it has not been consistently followed in other policy areas. For instance, exchange rate policy has aimed essentially at keeping the movements of the peso and U.S. dollar exchange rate stable; no redistributive policy actions have been taken with respect to any undesirable sectoral gains and losses resulting from the observed realignments of trade partner currencies since 1971 (Bautista, 1977).

The "oil crisis", perhaps more than anything else, has jolted

Philippine policymakers into the realization/strategic sectors of the economy need to be more tightly controlled. The petroleum industry at the time was heavily dominated by subsidiary firms of major international oil companies. As described above, the government has since taken steps to have substantial direct role in the importation of crude oil, refining and distribution of petroleum products through the newly-formed Philippine National Oil Corporation. Government intervention in the markets of other critical commodities, e.g., rice, fertilizer, wheat, sugar, copra and cocomut oil, has also increased, facilitated by the creation of state enterprises charged with regulatory functions, if not also direct participation in production and

and/or marketing activities. This is not without danger, however. Lack of experience and expertise may lead to wrong decisions being made -- in negotiations of export sale of sugar or import purchase of rice or crude oil, in setting floor prices on export commodities where no effective monopoly power exists, etc. Indeed there appears to have been some important policy measures adopted without the benefit of careful analysis. This may have been the case also in the preparation of sectoral plans. For instance, the ten-year power program for Luzon formulated by the National Power Corporation (NPC), related to the energy plan described above, has been judged by the World Bank to be "very costly ... and its construction schedules, particularly those for geothermal and nuclear plants are optimistic" (The World Bank, 1976; p. 506). The World Bank's recommended program is smaller and less expensive, specifying only one nuclear plant (instead of the NPC's two) and "is believed to reflect more closely the demand projected by NPC" (ibid).

VI. Conclusion

There seems no doubt that the Philippine economy has been profoundly affected by the exogenous shocks generated by the instability of the world economy during the first half of this decade. The greater flexibility of the exchange rate of the world's key currencies, the sharp changes in international commodity prices (including the "oil crisis"), and the subsequent recession have had both direct and indirect influences on the recent economic performance of the Philippines. As should be evident from the above discussion, it is extremely difficult to isolate them entirely from the effects of the policy responses to the external disturbances. In addition, there were exogenous internal developments — a series of natural disasters

in 1970-1972 and the declaration of martial law in September 1972 -- that when have altered significantly the behavioral and policy parameters of the economy's penformance.

While this paper has concentrated on the short-run effects of the recent instability of the world economy, we do not want to convey the impression that the long-term repercussions may not be significant. As Philippine policymakers became more aware of the need to protect the economy from the adverse impacts of external instability, there appeared noticeable trends toward: (1) the active promotion of self-sufficiency in important commodities, e.g., food and fertilizer; (2) bilateral arrangements and regional economic cooperation, involving socialist countries and ASEAN member nations, respectively; and (3) government intervention in markets of critical commodities.

Depending on whether relative social costs and benefits are thought of tarefully or not, each of these may improve or worsen the conditions for Philippine economic development.

30,54 G

in add to a

the first time that resident

Tight Do Green For a 1919

eg sim

discuss

It is worth noting that "greater self-reliance in the supply of important commodities" is one of three declared objectives of the five-offs year Industrial Plan (1978-1982) recently drafted (cf. Chap. 6 of draft Development Plans; July 26, 1977).

- 83 - .
Appendix Table 1

ANNUAL RATES OF CHANGE IN SELECTED PRICE INDICES, 1956-1976 (in per cent)

Year	Consumer Price Index	General Wholesale Price Index	Export Price Index (\$US)	Wholesale Price Index of Export Products	Import Price Index (\$US)	Wholesale Price Index of Import Commodities
1956	2.67	3.19	1.47	4.39	1.39	8.67
1957	1.78	4.27	1.33	4.59	3.24	5.32
1958	3.36	3.39	4.06	10.60	2.29	4.01
1959	0.91	1.37	8.33	13.06	2.00	9.00
1960	4.20	4.18	-1.46	2.63	2.20	5.77
1961	1.51	4.92	-8.00	3.90	1.47	5.20
1962	5.83	5.06	-1.07	20.95	1.90	9.42
1963	5.63	9.74	5.31	19.71	6.67	6.13
1964	8.21	4.60	-0.81	2.89	0.82	.91
1965	2.56	2.25	1.73	2.77	1.73	.50
1966	5.40	4.30	-0.90	1.30	1.60	.70
1967	6.26	2.59	1.78	6.12	2.26	.20
1968	2.32	2.71	5.06	12.00	0.58	30
1969	2.01	1.36	1.76	-1.74	2.52	3.18
1970	14.40	23.60	9.74	24.18	2.93	31.44
1971	14.60	15.72	-6.97	7.22	9.27	13.72
1972	10.20	10.10	-10.79	2.35	7.47	7.35
1973	11.00	24.52	9.00	53.91	16.48	27.94
1974	34.30	54.51	45.70	76.46	74.51	41.10
1975	8.00	2.87	-27.25	-30.56	7.96	18.04
1976	6.20	7.36	-16.86	2.53	-2.53	5.64

Sources: Central Bank of the Philippines, Statistical Bulletin (December 1975); 1976 data were obtained from the Department of Economic Research, Central Bank.

I sidsT mibnegy.

Appendix Table 2

INTERNATIONAL PRICES OF SELECTED COMMODITIES, 1971-1976

sisasiodW	11971 0.5. Lork	/1972	1973	1974	1975	1976
	rice Index	i uska		5 .ou.,	iomusuc.	
	of Execut	miex :		Pric	Price	
Rice (\$/m.t.) (200	- touboas	ષ (કેઇફ)	X 7	mbaï	Index	
United States	191.8	216.1	-396.8	555.6	418.9	308.6
$_{ ilde{ au}_{lpha}}$ Thailand	129.0	149.1 _{74'. f}	350.0	542.0	363.1	254.6
Wheat (\$/bushel)	<i>z</i> • ^{†††}	(+ , L	45 LL		0.1	
💲 Aūstralia	1.57	1.85	3.9473	5.32	®∜4 .03	∵ ,8 ,#€
10 United States	1.68	1.90	3.81 ₀₈	4.90	4.06	3.61
Urea (\$/m.t.)	· .k.	The Ten	10	. *		
ି Eŭrope ାତ୍ୟର୍	46.0	59 .2 ଅଧାର	94.8	315.8	197.7	111.8
Superphosphate (\$/m.t.)		5.44 N			as No. Air	
United States	43.0	67.5	100.0	308.0	205.0	91.5
Petroleum (\$/barrel)		, ***		•		
🖓 Saudi Arabia _{ne -}	2.19	2.46	3.29	11.58	11.53	12.38
Sugar (¢ /1b.)			30	. 2		. 12 *
New York	8.52	9.09	10.29	29.47	22.49	13.31
Copper (¢ /lb.)				•		¥.,
London	49.05	48.47 ^{ର .} ି	80.81	93.07	55.85	63.62
Copra (\$/m.t.) 🗀		**		1		
Europe	188.60	140.88	353.12	661.93	256.33	275.17
Coconut oil (¢ /lb.)					04.3	
New York	14.4	10.8	23.5	51.0	21,2	21.8
Plywood (¢ /sheet)					. #2 - 6	
Tokyo	81.7	95.3	189.6	152.9	121.8	147.7
Logs (\$/cu.m.)		\$\vec{1}{2}_{1,1}	٠.			
Tokyo co	43.09	40.47	68.37	81.80	67.51	87.01
Bananas (¢ /lb.)		17.11	٠			400
States States	6.37	7.3 3	7.48 ₄	8.35	11.11	11.96
Tobacco (¢ /lb.)			. 1			
United States	73.49	80.03	83.53	95.51	103.78	105.80
$\delta C_{\infty} \gamma$					4° € ∰ 3	V - }
			lo.	#Ġ	Ja. 448	V 1 (1)
7.96 18.04	177	<u> </u>		- 	00.8	
	**	1.5			- U . U	*

contral (1791 taugua) soitsitate laionania langitagratuling AMIDen: soruos 1976 data were obtained from the Department of Focuomic Research. (eprena) Subk.

Appendix Table 3

VALUE OF PRINCIPAL IMPORTS, 1971-76

(in million U.S. dollars)

Item	1971	1972	1973	1974	1975	1976
Crude oil	127.4	133.0	166.1	573.2	709.8	801.2
Machinery other than electric	255.1	239.9	296.0	424.0	654.9	625.3
Base metals	90.7	112.4	150.ዛ	295.7	212.8	245.3
Cereals and cereal preparations	65.1	84.3	111.8	154.9	175.4	157.7
Transport equipment	122.2	123.7	102.3	265.3	301.6	2 76.1
Electric machinery, etc.	66.3	54.0	70.8	105.3	156.9	187.2
Chemical elements and compounds	39.9	48.2	75.4	216.1	153.6	141.8
Misc. chemical products	53.4	54.3	80.1	113.8	109.3	115.3
Textile fibers	48.8	45.8	60.3	88.7	77.6	80.3
Manufactures of metal	26.0	22.8	47.1	60.1	93.8	80.7
Total imports	1,186.0	1,229.6	1,594.6	3,143.3	3,459.2	3,633.8

Source: Department of Economic Research, Central Bank of the Philippines (unpublished).

S. offdag visineqqA

Appendix Table 4
**Construction of the Appendix Table 4

MONTHLY INTERBANK GUIDING RATE, 1971-1976 (in pesos per U.S. dollar)

350	1971	1972	1973	1974	1975	1976	15.J.I
S 103 S.COT January	6.4350	6.4350	6.7814 E	6.7310	7.0664	7.4856	io se ust
$_{\odot,\mathrm{dS}_{0}}$ February $_{\mathrm{dS}_{0}}$	6.4350 ₂₃₄	6.4350	6.7762 gas	6.7189 _{.835}	7.0522	7.4693	redir od Vitor v
dai March	6.4350 _{.03}	6.4350	6.7719	6.7234	7.0261	7.4583	79: July 19
•	6.4350	6.5749	6.7662	6.7216	7.0177	7.4354	e Pagetha
May	6.4350	6.7220	6.7632	6.7174	7.0178	7.4304	540mg
1,878 8.208 June	265.0 6.4350	6.7718	6.7592	6.7184	7.0150 Time	7.4309	វស្សាសមាន 🔭
156.9 viuly	6.4350	6.7778	6.7583	6.7346	7.2719	7.4298	ekadas 17 Lude
August	6.4245	6.7795	6.7467	6.7428	7.5018 _{//}	7.4297	
September	6.4105	6.7795	6.7392	6.7473	7.5091	7.4290	on bhr
October	6.4324	6.7812	6.7396	6.7724	7.5001	7.4283	::n
November November	6.4331	6.7806	6.7382	7.0670	7.4975	7.4282	Zaskie.
Vies 8.32 December	6.4350	6.7804	6.7353	7.0623	7.4992	7.4282	ургалынЖ.
AVERAGE (% change)			6.7562 (1.28)		7.2479 (6.78)	7.4402 (2.65)	err led

Source: Department of Economic Research, Central Bank of The Philippines (unpublished).

REFERENCES

- Baldwin, R.E., Foreign Exchange Regimes and Economic Development: The Philippines (New York: NBER, Inc., 1975).
- Bautista, R.M., "Devaluation and Employment in a Labor-Surplus Economy: The Philippines", Economia Internazionale, XXVI (August-November 1973), 543-559.
- nacion and Others, Philippine Economic Problems in Perspective (Quezon City Institute of Economic Development and Research, 1976), 178-213.
- Trade", The Review of Economics and Statistics, LIX (May 1977), 152-160.
- ______, "Import Demand in a Small Country with Trade Restrictions", Oxford Economic Papers (forthcoming).
- pine Economy, 1950-69", Philippine Economic Journal, XI (Second Semester 1972), 249-277.
- United States: Responsiveness to Exchange Rate Changes", The Developing Economies, XII (December, 1975), 400-420.
- Encarnacion, J., Tagunicar, G.A. and Tidalgo, R.L., "Unemployment and Underemployment", Chap. 5 in J. Encarnacion and Others, op. cit., 136-177.
- Fried, E.R., "International Trade in Raw Materials: Myths and Realities", Science, CXCI (21 February, 1976), 941-946.
- Gonzalo, L., "Petroleum Consumption in the Philippines: A Macroeconomic Analysis", M.A. thesis, University of the Philippines School of Economics, 1976.
- International Labour Office, Sharing in Development: A Programme of Employment, Equity and Growth for the Philippines (Geneva, 1974).
- Krause, L.B., and Sekiguchi, S., The Transmission Mechanism in the Pacific Basin (forthcoming, 1977).
- Magno, C.P., "Notes on Development Loan Assistance to the Philippines, CY 1956-76", Journal of Philippine Development, III (Second Semester 1976), 313-332.

- McKinnon, R.I., "Optimum Currency Areas", American Economic Review, LIII (September 1963), 717-724.
- Mijares, T.A., The 1965 Interindustry Relations Study of the Philippine Economy", University of the Philippines, School of Economics National Economic Council Workshop Series No. 71-2 (November 24, 1971).
- Mundell, R.A., International Economics (New York: Macmillan Company 1968).
- Sargent, N., "Commercial Bank Lending to Developing Countries", Federal Reserve Bank of San Francisco Economic Review (Spring 1976), 20-31.
- Shourie, A., "The Use of Macroeconomic Regression Models of Developing Countries for Forecasts and Policy Prescription: Some Reflections on Current Practice", Oxford Economic Papers, XXVI (March 1972), 1-35.
- Sicat, G.P., "New Economic Directions in the Philippines (Manila: National Economic Development Authority, 1974).
- Stretton, A., "The Building Industry and Employment Creation in Manila, the Philippines", Ph.D. dissertation, Australian National University, 1977.
- Tan, E., "Income Distribution in the Philippines", Chap. 7 in J. Encarnacion and Others, op. cit., 214-261.
- The World Bank, The Philippines: Priorities and Prospects for Development (Washington, D.C., 1976).
- Treadgold, M.L., "Economic Growth and the Price Level in the Philippines, 1946-65", Ph.D. dissertation, Australian National University, 1969.
- and Hooley, R.W., "Decontrol and the Redirection of Income Flows: A Second Look", Philippine Economic Journal, VI (Second Semester 1967), 109-128.

MO 8::

<u>19.50Y</u>

Institute of Economic Sevelopment and Research SCHOOL OF ECONOMICS University of the Philippines

Discussion Paper No. 77-5

October 3, 1977

well written 1

RECENT EXTERNAL DISTURBANCES AND THE PHILIPPINE ECONOMY

by

Romeo M. Bautista

NOTE: This paper will appear in Laurence Krause and Sueo Sekiguchi (eds.),

The Transmission Mechanism in the Pacific Basin, to be published by
the Brookings Institution, Washington, D.C. An earlier version was
presented at the Conference on the International Transmission
Mechanism sponsored by the Japan Economic Research Center in Tokyo,
June 27-30, 1977.

TABLE OF CONTENTS

		Page	No.
I.	Introduction	1	
II.	Sources of External Disturbance	6	
III	Effects on the Philippine Economy	12	
IV.	The United States and Japan as Sources of External Disturbance	50	
v.	Policy Responses	60	
VI.	Conclusion	81	

Appendix Tables

References

Discussion Paper No. 77-5 ("Recent External Disturbances and the Philippine Economy", by R. M. Bautista)

ERRATA

- p. 41, line 11:
 "3.4%" to read "3.5%"
- p. 64, line 14:
 "institution" to read "institutions"
- p. 77, line 2:
 "usually" to read "unusually"
- p. 82, 3rd to the last line:
 "thought of" to read "thought out"

RECENT EXTERNAL DISTURBANCES AND THE PHILIPPINE ECONOMY

Romeo M. Bautista*

I. Introduction

Towards the end of the 1960s the Philippines was experiencing a severe foreign exchange crisis precipitated by the need to service short-term credit which financed the trade deficits of the second half of the decade. As part of an IMF consultative group's set of recommendations whose implementation would enable the country to obtain the third credit tranche from the Fund as well as agreement by foreign banks on longer debt repayment terms, the government floated the domestic currency (peso) in February 1970, the exchange rate moving from 3.9 to 6.4 pesos per U.S. dollar by the end of the year. In the Philippines, therefore, the dramatic developments in the world economy during the first half of the 1970s affected a small developing economy recently perturbed in its external sector and already adjusting to a new set of domestic price relationships.

Accompanying the de facto devaluation of the peso in 1970 was a policy of monetary and fiscal restraint which did not prevent however a substantial increase in domestic prices. Unlike the peso depreciation in 1962, import

[&]quot;Useful comments made by Laurence Krause, John Power and Yasukichi Yasuba on an earlier version of this paper are gratefully acknowledged. Thanks are also due the Central Bank of the Philippines for providing unpublished data and Claribel Nacua for research assistance.

According to Baldwin (1975), "the fear of further intensification of the social unrest that was triggered by price rises associated with the currency devaluation apparently accounts for the decision to fix the dollar value of the peso" (pp.80-81) in December 1970.

northern swight

liberalization measures were not introduced, i.e., certain exchange and import controls remained, effectively continuing the ban on imports of some 400 commodities. Thus, while the foreign currency price of imports rose by only 2.9% in 1970, the domestic wholesale price index of imports increased by 31.4%. The CPI rose 14.4%, which represented the country's first postwar experience with double-digit inflation rates (cf. Appendix Table 1). In 1971 the import price index climbed up 9.3%, contributing to the observed CPI increase of 14.6%.

The preceding two decades were a period of relative stability in the foreign trade of the Philippines. Table 1 gives a summary picture of the extent and dispersion of the fluctuations of aggregative trade variables in terms of the mean and standard deviation of their annual percentage changes within subperiods after 1950. Because they constitute the main links to the international economy, export and import prices, volumes and values bear the most immediate manifestation of external disturbances to the small, open economy. Easily discernible from Table 1 is the much higher standard deviation for 1969-1975 of each price and value index than for any other period. The dispersion of annual changes in export volume is also seen to be the

The Addish appare mly accounts the decision to the dollar

asol (political) in December 1970

JE 63

the loss of the section is about the

arogair (\$37 c

The consumer price index used in this study pertains to Manila and suburbs, prepared by the Department of Economic Research of the Central Bank and published regularly in its Statistical Bulletin. This index, which extends back to 1949, is highly correlated with the CPI for the Philippines developed later by the same office. It is also more widely used than the consumer price indices for Manila and the entire country prepared by the National Census and Statistics Office since 1970. For a comparison of these alternative measures, see Appendix 6.1 in Bautista (1976).

Table 1 MEAN AND STANDARD DEVIATION OF ANNUAL PERCENTAGE CHANGES OF AGGREGATIVE TRADE VARIABLES, 1951-1975

								,	
		1951-	1957	1957	-19 63	1963	-1969	1969-	1975
Variable	e -	Mean	s.D.	Mean	S.D.	Mean	S.D.	Mean	S.D.
Px		-2.65	13.55	1.55	5.17	1.44	1.77	9.91	28.59
P _m		97	2.86	2.76	1.77	1.59	0.72	19.77	24.89
Q _x		5.10	8.55	7.96	7.44	1.15	3.48	8.35	9.27
Q _m		5.93	10.67	-2.52	7.52	9.49	8.76	3.37	4.30
v _x		1.32	19.02	9.79	12.36	2.44	3.61	24.63	40.71
v _m		4.91	11.14	0.20	16.25	10.95	9.37	23.57	232.95
Notes:	P _x =	export p	rice ind	lex		P _m =	import	price i	ndex
	Q _x =	export q	uantum i	ndex		. Q _m =	import	quantum	index
	v =	expont w	alue ind	lev		v =	import	value i	index

V_x = export value index V_m = import value index

Source: Calculated by the author from data published in the Statistical Bulletin, XXVII (December 1975).

highest for 1969-75, but not markedly. In sharp contrast, the standard deviation for the import quantity index is lower for 1969-1975, this would have been a surprising finding were it not for the fact that import restrict ions had been in existence which varied in intensity over the postwar period (Bautista, forthcoming).

Exports increased significantly after the 1970 peso devaluation, despite the recession in the United States and Japan during 1970 and 1971, respectively. Managing to expand by a mere 17% during the entire six-year peri 1963-1969, Philippine export earnings exceeded for the first time US\$1 billing in 1970, representing an increase of 24% from the preceding year's value. This was also due partly to the rise in dollar export prices of close to 10% the export quantum index therefore showing a 14% increase. In 1971 the volume of exports climbed up by 14.6% despite a discernible decline in the export price index. At a disaggregative level, coconut products (consisting of copra, coconut oil, copra meal or cake and desiccated coconut), copper concentrates and sugar showed the most impressive export performance (Baldwin 1971; p.81). Additionally, exports of nontraditional manufactured goods, the promotion of which had been the object of recent policy measures (e.g., the enactment of the Export Incentives Act of 1970) expanded significantly (by 2).

On account of the continued controls on import transactions and the contractionary fiscal and monetary policies, the value of Philippine imports rose by only 6% from 1969 to 1971 (despite a 12% increase in foreign current import prices). The result was a substantial reduction in the country's mer chandise trade deficit from \$276.9 million in 1969 to only \$38.1 million in 1971. Furthermore, for the first time since 1967, invisible receipts

exceeded payments in 1971, reducing the deficit in the current account to \$22.3 million.

Domestic investment appeared to have been negatively affected by
the currency depreciation in the first year. However, it showed signs of
recovery in 1971, expanding in real terms by about 4% over the 1970 value.
Also, the gross national product increased by 5.4 and 6.5 per cent in 1970
and 1971, respectively, discernibly higher than the average annual growth of
4.9% between 1963 and 1969. With perhaps justifiable reason, the government's
Four-Year Development Plan, FY 1972-75 "unfolds with the promise of brighter
prospects" after noting that the country has regained "economic composure from
a gruelling adjustment period in FY 1970 and 1971 that saw some powerful
policy-shifts redirect the development path" (p.21).

iod

ion

rin.

the

28%).

It is against this backdrop that the recent instability in the world economy needs to be evaluated in its effect on the economic performance of the Philippines. We first examine certain elements of instability occurring in the first half of the 1970s, broadly indicating how they impinged on the Philippine economy and bringing out relevant characteristics of the country's external sector. This paper then analyzes the various channels through which the external disturbances had affected the economy; because Japan and the United States are the country's dominant trade partners, it is of some interest to determine the extent of imported instability coming from these two countries. Government policies adopted in response to these exogenous shocks will then be described, their effectiveness evaluated and means of improving them suggested. Some concluding remarks are given in the last

to the harmonia of the code of the delication

section of this paper.

ra- idirəzət kaccoumt r

Walliam 0.833

II. Sources of External Disturbance of cased and source of control of the source of th

sidered, somewhat arbitrarily, the principal sources of instability for small, developing countries during the period. These are the greater flex bility in exchange rates among the world's key currencies, the sharp change in international commodity prices, the oil problem, and the economic reces of the world economy.

Discussions regarding "optimum currency areas" point to the desirability for a small open economy, in facilitating international trade and payments, to peg its currency to that of the country with which it has most of its trade and financial transactions. If there are two large countries to which the small economy has strong links in trade and finance, no additional problem is created as long as the two dominant trade partners main tain a fixed exchange rate between their currencies. This was in fact the Philippine case during most of the postwar period, the United States and Japan accounting for more than two-thirds of Philippine trade flows and until 1971, the exchange rate between the U.S. dollar and Japanese year remaining relatively stable. With the greater flexibility in exchange rate

auons 3 See for example, McKinnon (1963) and Mundell (1968, Chapter 8).

The bulk of the remaining one-third would be contributed by Western European countries such as West Germany, United kingdom, Netherlands and Italy, as well as some Middle East countries supplying crude oil imports.

ave at member expected, it is a more a contract because is

among the world's dominant currencies initiated in the early part of this decade, Philippine policymakers now have to contend with the exogenous change to contend with the exogenous change in the effective exchange rate of the domestic currency due to any realign—extraorded to the domestic currency due to any realign—extraorded to the U.S. dollar and Japanese yen (Bautista, 1977).

Philippine export trade, like that of most developing countries, is also characterized by a high degree of commodity concentration. About fourfifths of the country's foreign exchange earnings from merchandise trade in the postwar period have been contributed by ten principal export commodities; four of the following products could easily account for two-thirds of total export value for any given year; sugar, copra, coconut oil, logs, abacal and coppen concentrates. An additional consideration is that several of these principal export commodities have been dependent to a significant degree on only one or two dominant markets. For example, during 1962-69, the United 1 States was the destination market of virtually all exports of Philippine with sugar, 86% of coconut oil, 98% of plywood, 93% of veneer and 80% of desiccated coconut; on the other hand, Japan had absorbed 99% of Philippine exports of ode for work to beingili in a chira to the comment of the iron ore, 78% of copper concentrates, 81% of logs and 84% of molasses. Greek est de een item shove, at influence of Except for crude oil, the country's principal import commodities have been - Progra begin coss co a usuma The state of likely to be signisupplied mainly by Japan and the United States. Thus, in the 1960s, these nista abw doinn 🏅 1988): s offered the asia office affile. two countries accounted for 70% of total Philippine imports of machinery The last but avi to augmon -bommos tarin ri sili kroko so tasinka s : 55 and equipment (including transport and electrical), 71% of metal manufactures, _____ 42% of cereals and 62% of chemical products. These commodity groups jointly . The mathe contained to the committee middle Tib in it kat galemoo.W 6 40 40 100 of 1974 that Colors we see eromine bear-moni esimi an by more than its sentent of a Same in semi-

the Korean Was the

See Bautista and Tecson (1975).

accounted for about 68% of total Philippine imports in 1970.

innatura di Paris di Printe di One implication of the above is that any changes in the exchange Charles Addition of the State of rates of the U.S. dollar and Japanese yen could cause a redirection of North and record of the Contract e entre ligge bolen en invofil i i da wi Philippine trade flows as well as influence the magnitude of total exports egaitya. I ge and imports if the effective exchange rate of the peso is changed. Based / on Philippine merchandise trade with the six principal trade partners, the peso depreciated from 1971 to 1976 effectively by 27.7%, computed as an average of the peso exchange rate changes with the currencies of these partner countries weighted by the 1973-74 trade flows. The induced changes in the prices of exported and imported goods expressed in domestic currency would have affected directly and indirectly the domestic prices of both tradable and nontradable goods. Moreover, there would also be some changes in the pattern of income flows in the sectors affected by the currency realignment in terms of the gains and losses of the importing and exporting industries as a result of the altered sets of prices and trade flow magnipatudes. And the control of the cont

Given the small, open character of the Philippine economy and the characteristics of its external sector as described above, the influence of externally determined export and import prices is also likely to be significant. The rise in world commodity prices in 1972-74, which was both comprehensive and sharp, and the subsequent price decline in most commodiate parameters.

According to Fried (1976), "from the beginning of 1972 to the middle of 1974 the U.N. index of export prices of all primary commodities increased by more than 150 percent, fully three times the advance that occurred during the Korean War commodity boom" (p. 941).

ities would have induced similar movements of Philippine export and import prices in foreign currency terms. The main causal forces behind these drastic price changes -- some related to supply and others to demand -- differed among the major commodity groups. Cereals, which the Philippines imports heavily (about \$100 million average annual value for 1971-1976), suffered crop failures in major producing regions beginning 1972. In the case of raw materials like copper, logs and coconut products (which are major export commodites of the Philippines), the simultaneous expansion of industrial countries which exerted upward pressures on demand was the principal cause for the price rise; the subsequent steep decline in demand was also the reason for the concomitant fall in industrial raw material prices. World supply of sugar, the principal export product of the Philippines, had tended to lag behind the accelerated growth in demand due to the rapid rise in world income. The depletion of stocks resulted in sharp increases in the world sugar price in 1974; this led in turn to surprisingly large reductions in consumption which, jointly with the significant response among sugar producers after 1974, pushed the price of sugar in international markets to a precipitous fall.

Changes in the world prices of export products of a developing economy like the Philippines would affect export earnings directly and also indirectly through the response of export volume. In addition to the standard export multiplier effects, there would also be a commensurate effect on the country's capacity to import which for foreign exchange-constrained economies has significant implications on the development effort. Other

⁷The following discussion is partly based on Fried (1976).

dan ing lang kandas bend i Paka i 💌

ÁÉ... ing a second with a second things remaining the same, a change in foreign currency import price will have a negative proportionate effect on the capacity to import. The domestic price structure would be affected also by changes in export and import prices. An increase in the foreign currency price of exports would stimulate an increase in the domestic prices of home-consumed exportable products. Likewise a price rise of imports would induce higher domestic prices of imported goods, as well as import-competing products; moreover, industries using imported material inputs would be subject to rising product price increases. Lastly, non-importing firms would also experien higher costs of local input purchases from import dependent suppliers. A with exchange rate changes, there would be further repercussions in the economy of such changes in domestic prices.

The third source of external disturbance identified above--the oil crisis--could have been subsumed under the second category. The drastic increase in the import price of crude oil in 1973-74 (and for a time the lack of adequate supply) affected however the country's economic performa in special ways and evoked particular policy responses that separate acco needs to be taken of this particular exogenous shock. There is probably other single commodity that represents so critical an input requirement; is of crucial importance not only to the industrial sector of developing economies but also to agricultural production, where high prices of ferti aco- agreerant and pesticides induced by the oil problem could jeopardize the success of "green revolution". Because the Philippines is dependent on oil imports over 90% of its energy requirements, the severity of the oil price rise $_{
u}$ 750 B3

presented an enormous adjustment problem.

izers

the

The slowdown in world economic activity beginning early 1974 would seem to be related to the dramatic changes in international commodity prices, particularly the oil price hike. For purposes of the present study, however, it is useful to distinguish this source of instability in view of the policy need to cope with the adjustment problem associated with this form of external disturbance regardless of the underlying cause. Any small developing economy with strong links in trade with developed countries is bound to have its export earnings determined in large measure by the level of economic activity in the latter countries. Given the commodity and geographic concentration of Philippine exports, economic fluctuations in Japan are likely to significantly affect in the short run the country's export proceeds from copper concentrates, logs and lumber, molasses and abaca; similarly, changes in economic activity in the United States would influence the demand for Philippine exports of sugar, coconut oil, desiccated coconut, plywood and veneer, as well as the nontraditional manufactured exports.

In addition to the trade effect of changes in the level of economic activity in developed countries, developing economies might also be affected through international capital movements, both public and private. In the face of a recession and the economic hardships it entails, political considerations may reduce the willingness of developed country governments to extend development assistance to less developed countries. Moreover, since variations in economic activity influence the availability of capital and the relative profitability of investment, private capital flows from developed to less developed countries might be adversely affected in a slowdown

in economic activity. In the Philippines the substantial part of net cap flows until 1972 has mainly taken the form of development loans; r direct investment (excluding reinvestment of foreign companies) has been uproedo ul recom මෙම ක් විදුම්වෙන මෙ very small, showing an annual net outflow during most of the 1960s. According to the Central Bank-Board of Investments Study on Foreign Investory and the wait of the development and the strain of the surein states and the strain of the st ments, 76% of the total direct equity investment in 1970 was held by U.S. investors. Along with Japan, the United States has also been a principal contributor to Philippine development assistance. During 1956-1976, total even or bruced at source of a second or bruced at source of the second or bruced at second loan assistance from the United States amounted to \$353 million (of which Tampa rensuze in T \$171 was through the PL 480 program) while that from Japan amounted to \$332 million; other bilateral sources contributed \$68 million, while multilateral development loans (mostly coming from the World Bank and Asian Coordinate Speakers) and Asian Coordinate Development Bank) accounted for \$1,266 million. ു വിത്രമായ ചെടുത്

III. Effects on the Philippine Economy

To what extent has the economic performance of the Philippines been affected by the exogenous shocks generated by the recent instability in the world economy? The most theoretically appealing way of evaluating the economic effects would be to use a complete model of the national economy

i alaonou

The ILO Report (1974) attributes the low level of direct foreign investment in the Philippines until 1972 to the "uncertain political situation, the rules stipulating Filipino ownership up to at least 50 percent in and the uncertain status of American-owned assets after terminati of the Laurel-Langley Parity Agreement in 1974" (p. 281). Since the declar tion of martial law in September 1972, a policy of attraction of foreign investment has been adopted.

Of. Magno (1976; p. 314). It should be noted that these figures are based on total commitments rather than actual disbursements and that loans granted from June to December 1976 have not been included.

a men

ners (Hong Kore

ll in-

we with the extra me. Gustos" representing quantitatively the interrelations among disaggregative trade, rx-filew end no ment production and price variables and work out the consequences of a change maneys sion Wil Matselfas identified, the in any one or a combination of what may be called "external disturbance of the algebraic of the start of the variables" immediately affected by the various sources of instability described above. Such a model for the Philippines might have, as external disturbance variables, the foreign currency prices of exports and imports, exchange rates applicable to the various trade transactions, and levels of economic activity in the Philippines and in the destination markets of 1771 Philippine exports. There is virtually no limit to the extent of disaggregation possible, distinguishing among various trade commodities, partner countries and forms of economic activity. Practical considerations would dictate, however, that only the more important aspects of Philippine foreign trade and payments be taken into account. Similarly, there are many forms in which the effects of external disturbances manifest themselves in the national economy, but only the more important economic effects need to be analyzed. The evaluation of such effects has to be made in a regime of neutral policy, i.e., allowing the economy to adjust to the external shocks without the adoption of compensating or reinforcing policy measures.

The present study does not employ a comprehensive model of the Philippine economy in assessing the economic impact of the recent external shocks. The theoretical and statistical difficulties of econometric modeling and simulation of a developing economy like the Philippines are too well known to warrant repetition here. What we shall attempt in this paper is

oc Spain), iii

ក្រុក នេះ និង ស្រី យ៉ា ខា និង និង នេះ 🗥

See, for example, Shourie (1972); for some attempts at econometric modeling of the Philippines with emphasis on the foreign trade sector, see Bautista and Encarnacion (1972) and Bautista (1973).

to examine the actual movements of certain economic variables likely to be affected by the external disturbances during 1971-1976 and assess the latte contribution to the observed annual changes through some of the well-known channels of the international transmission mechanism (as identified, for example, in Krause and Sekiguchi (1977, Chap. 1)).

soon est anterni odit peridetres sone inune

ក្រុកសុខមា ១០០០ ខ្នាំ២០១៤<u>នៃជាជន</u> សុខធ្ងន់។ ១០២០១៤

- Piremoedi ed^m (1916)

1. Exchange rate effects

With the breakdown of the Bretton Woods international monetary in system, maintenance of exchange rate parities ceased to be a commitment by governments of IMF member countries. The Smithsonian Agreement of December 1971, for example, appreciated the Japanese yen and German mark by 17% and 14%, respectively, relative to the U.S. dollar, and most European currencies by something under 10%. Although the Philippine peso was technically on a floating rate system at that time, substantial participation of the Central Bank in the foreign exchange market effectively placed the peso exchange rate with the dollar under its control. The stable peso-dollar exchange rate observed until March 1972 would seem to reflect, therefore, a policy decision to depreciate the domestic currency with respect to the Japanese yen, Australian dollar, New Zealand dollar and most European currencies, while appreciating it with respect to the currencies of a few trade partners (Höng Kong, India and Spain).

The effects on the economy of such peso exchange rate changes are far reaching, as suggested in the preceding section. The empirical evidence si raday such as a type of the section of the exchange would seem to indicate, for example, that "changes in relative exchange

it mesas bri sai japaikta i japai mitri

¹¹Cf. Table 3 in Bautista (1977). for some same same of the same o

:11

rates rather than in export prices (expressed in foreign currency) have been responsible for much of the recent shifts in Philippine export trade with Japan and the United States" (Bautista and Tecson, 1975; p. 414). Based on the estimates of the price elasticity of market shares of individual export commodities, it was concluded that the 1971 realignment of major currencies was responsible for changes within "28 per cent to 34 per cent of relative value shares of the two export markets; volumewise; the induced redirection of exports is estimated to be from about 11 to 17 per cent" (Bautista and Tecson, 1975; p. 413).

In another study (Bautista, 1977), the direct trade effects of the 1971 exchange rate changes were found to be significant for certain export and import commodity groups, particularly those faced with high effective depreciation rates of the domestic currency (mostly going to or coming from Japan and West Germany) and having high values of the price elasticity (in export supply or import demand) such as copper concentrates and copra meal/cake among exports and basic manufactures and miscellaneous manufactures among imports. The induced changes in exports and imports were /at 57.2 and -32.3 million U.S. dollars (at 1963 prices), respectively, implying an improvement in the country's merchandise trade balance -- which is not surprising since the peso had been effectively devalued with respect to the currencies of most of its trade partners. It bears emphasis that these "exchange rate effects" are attributable not only to the realignment of major currencies but also (and quite critically) to the policy reactions to the external disturbance, of which more will be said below.

There would of course be other repercussions on the economy from this source of economic instability, e.g., the implications on the domestic price structure of the induced changes in the peso prices of traded goods and in income flows in the sectors affected by currency realignments. However, instead of attempting to evaluate these effects on the Philippine economy in isolation from those attributable to the other sources of instability, we shall examine below how these disturbances jointly contributed to the observed movements of selected price and output variables during 1971-1976.

2. Direct price effects

As shown in Appendix Table 1, Philippine export and import prices significantly in general fluctuated/during 1971-1976. Initially the country's exports suffered two consecutive years of declining prices in foreign markets. This was followed by sharp increases of the export price index associated with the commodity boom beginning March 1973 until October 1974, after which a precipitous fall in export prices among the country's leading export products, attributable to the (world recession), took effect in the next twelve months. Within the latter period the export price index dropped to about half its initial value and in 1976 went down further by 17%.

The import price index was already rising significantly in the first, three years - even before the oil crisis came on the scene in late 1973 and pushed up the index by 75% in 1974. Import prices increased further by 8% in the following year before registering a slight decline in 1976. The move ment of the net terms of trade was therefore erratic but in the end showed a considerable deterioration from 110.6 in 1970 to 61.6 in 1976. This has

salem in the alphaneau and about servers if the

repercussions on the country's balance of payments and national income, as will be examined below.

Individual export commodities exhibited roughly similar time profiles of prices (cf. Table 2), most of which show peak levels in 1974 or 1975.

On the other hand, the drastic increases in the import price index had been dominated by the oil component, the prices of other principal imports not rising as much over the period (cf. Table 3).

To what extent have these exogenous movements in the prices of traded goods influenced the general price level in the Philippines during the period? As indicated above, the double-digit inflation rates experienced in 1970-1974 were unprecedented in the country's postwar history. The 1970 de facto devaluation package, which brought up by 72% the peso-U.S. dollar exchange rate without accompanying import liberalization, 12 would be mainly responsible for the observed substantial CPI rise in 1970 and some part of the 1971 inflation. Based on the direct and indirect import dependence ratios computed from the 1965 input-output table compiled by the Bureau of the Census and Statistics, Mijares (1971) has calculated the net effect of a 60% peso devaluation on household consumption prices to be an increase of about 12%. A later study (Bautista, 1973) on the effects of currency devaluation using a dynamic, aggregative model of the Philippine economy suggests that the GNP deflator 13 would increase by 13% in two years as a result of a 70% devaluation.

¹² The import volume index understandably dropped 10.8% in 1970 from the 1969 level.

 $^{13}$ The actual increase in the GNP price deflator from 1969 to 1971 was 31.2%.

Prince of the Country of the Country

fight in the laws of thought contribute

Table 2

UNIT VALUE OF PRINCIPAL EXPORTS, 1971-1976 (in U.S. dollars per metric ton, except as noted)

e speroen and longer early	\$ (0.8°)		. Speadama	eri, bild vi	Detril
Commodity	1971	1972	: 1 973 (, s.:	1974 1975	1976
Copra	164.6	119.4	225.8	5 22.2 226√4	181.7
Sugan				78.2 597.3	299.6
Logs & lumber (million board feet)					
Bananas				68.6 3.000 0	
Molasses	17.3	19.7	31.2	42.3 50.3	30.8
Coconut oil	260.4	VG181.0	353.5	15.8 :74.8	346.3
				.03.1 109.9	
Gold (million ounces)	39.3	53.7	192.9 1	37.3 155.7	122.0
canned brueabbre	196.0	181.3	216.5	244.2 298.1	337.7
Copper concentrate	227.1	231.9	360.4 4	73.4 265.4	282.2
Iron ore	8	71,11 8 [1,5]	n ga s9 age tar	10 1 - 11 9 -	· · · · 9 · ·
Chromite ore	22	23	19	24 32	50
ADACA	265				450

Source: Department of Economic Research, Central Bank of the Philippines (unpublished). The second season is the set of the second second season in the second s

they believed the little of the substitute and the substitute the substitute of the

emeral Color of Sales Course to a color terminal education designs of

ackfrotavely in a

greatures on Seel of two where the same of the same of the seed of

Table 3

IMPORT PRICE INDICES OF PRINCIPAL IMPORTS, 1971-1976

(in U.S. dollar terms; 1970 = 100)

Item	1971	1972	1973	1974	1975	1976
Crude oil	124.0	133.8	161.0	602.6	692.9	747.4
Machinery other than electric	110.8	104.0	113.1	124.3	134.6	147.9
Base metals	108.4	100.6	116.3	161.1	148.9	160.5
Cereals and cereal preparation	107.8	122.1	251.1	335.3	271.0	231.7
Transport equipment	117.6	111.7	118.2	131.1	147.8	160.0
Electric machinery, etc.	107.6	103.9	107.8	117.5	132.0	138.2
Chemical elements and compounds	106.6	97.6	113.0	154.9	170.0	176.6
Misc. chemical products	106.5	96.3	112.7	157.5	171.2	176.8
Textile fibers	105.2	100.8	118.5	123.5	121.9	135.7
Manufactures of metal	108.6	103.2	113.8	155.0	150.2	163.9

Sources: Crude oil - unit values, Central Bank data (unpublished).

Cereals - weighted average of wheat and rice prices in supplying countries, International Financial Statistics.

Others - weighted average of export (Japan) or producer price indices in supplying countries, OECD Main Economic Indicators and Bank of Japan, Price Index Manual.

In 1972 there was a further reduction in the value of the Philippine peso by 10.0%, computed as a weighted average of the peso exchange rate changes with the currencies of the six most important trade ·我身有快起一贯 特 24977 partners. This would in part explain the 10.2% increase in the CPI during the year. Another consideration is the inflationary effect of the 7.5% increase in the import price index, which the accompanying reduction in 1 Philippine export prices of about 10% must have moderated somewhat. Final an internal factor needs to be taken into account, i.e., the decline in ag cultural crop output caused by the extensive damage wrought by the severe typhoons and floods in 1971 and 1972 as well as the widespread infestation rice plants by the "tungro" virus disease. Thus, inspite of the wider use of high yielding rice varieties and expansion in hectarage by 4.3%, the country's production of palay (rough rice) expanded by only 2.1% in crop year 1970-71 (as contrasted to the 17.7% growth in 1969-70); in 1971-72 palay output even went down by 4.5% from the previous year's harvest. The supply of rice was augmented by imports of 319 thousand metric tons in 1972, 14 which was instrumental in keeping the price rise of cereals relatively low (6.3%). 388 ីសម្<mark>តិទី២ ខែ២</mark> ខែ២០ ខែ២០ ខែ២០

Changes in the effective peso exchange rate after 1972 (-6.8% for 1972-73, 1.2% for 1973-74, -5.1% for 1974-75 and 4.7% for 1975-76) had been relatively insignificant compared to the changes in export and import price indices. The export price boom of 1973 combined with the substantial increin import prices (cf. Appendix Table 1) in explaining a large part of the

¹⁴This mainly accounted for the 24% increase in the import value of "cereals and cereal preparations" in 1972.

year's inflation. There was again a decline in palay production (by 3.8%) which still suffered from weather misfortunes; rice importation failed to avert this time a marked rise in the cereal component of the CPI in view of the higher import price (cf. Appendix Table 2) and a substantial underestimation of import requirements by government officials.

Although phenomenal increases in the world prices of traded goods generally were witnessed in 1974, the severe inflation of that year could easily be judged to have been induced largely by the drastic increase in the import price of crude oil which started in late 1973. The Philippines imported 53.3 million barrels of crude oil during the first three quarters of 1973 at c.i.f. cost of US\$152.7 million. The amount imported during the comparable period (January to September) in 1974 declined to 45.9 million barrels but the c.i.f. value went up more than three-fold (\$463.7 million). The immediate effect was a sharp rise in the domestic price of refined petroleum products, posted prices ex-Pandacan terminal showing increases from October 1973 to July 1974 as follows: bunker oil - 192.9%, regular gasoline - 139.5%, premium gasoline - 123.7%, diesel oil - 121.8% and kerosene - 156.5%. The weighted average price increase of all petroleum products over this period is computed at 156%.

Application of static input-output calculations (Bautista, 1976) has suggested a 22% inflationary effect on household consumption, assuming that the upward pressures on consumer prices brought about by the drastic oil price rise have worked themselves out. This constitutes already close to two-thirds of the observed CPI increase of 35% from October 1973 to November 1974. While it bears emphasis that some aspects of this application of standard input-

output analysis are of doubtful validity, including the assumption of constant mark-up pricing in each sector, one would be inclined to accept the above clusion that the magnitude of the 1974 inflation in the Philippines had been greatly influenced by the oil crisis.

o migner untro

Ta IffeW 800

The or over ea

To be sure there were other influences, some of them related to the price hike. As shown in Table 3, the country was also faced with increased prices of non-oil imports in 1974 (perhaps induced in part by the supplying countries' existing oil problem). Food (cereals and cereal preparations) registered a relatively significant import price rise, in this particular year, however, the much improved crop harvest (10% higher than in 1973) allow a 50% reduction in rice importation. Undoubtedly, a more significant continued export bonat which produced an 87% price increase of Philippine export products.

The dramatic decline of the inflation rate to only 8.0% in 1975 and 6.2% in 1976 reflected the sharp downturn in the country's import and exportance attributable to the prevailing world recession which began in early 1974. As indicated in Appendix Table 1, prices of Philippine export produced went down on the average by 27% and 19% in 1976, respectively; on the other hand import prices rose 8% in 1975 and decreased slightly in 1976. Moreov there was continued expansion of agricultural crop output, producing a very modest increase of 6.6% in the food component of the CPI in 1975 and 6.1% in 1976.

In summary, the causal factors behind the double-digit inflation rates during 1970-1972 were chiefly internal, i.e. having to do with the

ximida-o.a va ex 1 - shi -

obodenku lužuko od tako od vij

management of the peso exchange rate and shortfalls in food supply. In 1973 / and 1974, however, external developments, viz., the drastic increases in international commodity prices, especially the oil price rise, had strong inflationary effects on the Philippine economy. The ensuing recession reversed the direction of commodity price movements and served to reduce substantially the Philippine inflation rate at the same time that a significant improvement in domestic food production was being experienced.

3. Effects on the current account

One striking observation about the postwar performance of the Philippine external sector as portrayed in Table 1 is the relatively more rapid expansion of real exports exhibited in the 1970s on the average compared to the other subperiods distinguished in the table. There was however also a high degree of variability, the annual growth rate of export volume showing the highest standard deviation during 1969-1975. In sharp contrast the annual rate of increase in real imports in the first half of the seventies was relatively low on the average and far less variable. These recent divergent patterns of export and import volumes might be attributed in part to concerted policy efforts to promote exports and economize on imports in response to the externally-generated increases in tradable goods prices.

Table 4 gives annual export quantities by principal commodity items during 1971-1976. While substantial net increases from the 1971 levels are indicated for some products, most commodities had erratic movements over the period. The biggest gainers were coconut oil and its by-products, copra meal and cake (which expanded at the expense of copra), bananas, molasses and gold,

Free St. Lafen and the straight of the particles of the straight of the straig

on anabacone of come and a restable that the second anabase grown and will be

form from alth

VOLUME OF PRINCIPAL EXPORTS, 1971-1976 (in thousand metric tons, except as noted)

Commodity	197	1 197	:97	1974	1975	19
luomevoulmi imallimas, se			-	oistel at	lakasi .	
opra	692	926	734	268	761	82
ugar	1,345	1,211	0.65 1,474	ouboac 1,542	972	. 58 58
ogs & lumber		رهو د هاره د د مينوند د	440 0 0 35	7110 655		
(million board feet)	3,645	3,098		2,114	2,055	1,19
Managas de la completa del completa de la completa de la completa del completa de la completa del la completa del la completa de la completa del la completa del la completa de la completa del la c	267	422	466	663	823	79
blasses and the second of the second	486	356	606	655	674	79
Conutabiles a message seasons	397	46 6	427	416	614	86
Copra meal/cake	288	352	263	271	303	49
Gold (million ounces)	ாட ஊ 20 4ிட	501	536	541	491	53
Cannod pineapple	100	[े] 108	91	125	116	13
Coppes concentrates	815	823	764	830	799	94:
Ironioper agranda and a second	···· - 186° ·	- 163 ^{- 1}	136	121	20	1
Chromite ore the great all near the	275	238	~~ [∨] 478	534	407	
lbaca ou osumo en mi pom jai en	721 0 49 0%	50 12	54	43	27	325

Source: Department of Economic Research, Central Bank of the Philippines There (unpublished). Hittis . We wait to the case

and likes had entertic drive.

- अनुस्ति । १९५५ - १९५५ - १९५६ वर्षा वर्षा के **१९६ वर्षा १९** १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५ - १९५५

A CONTROL OF THE PROPERTY OF A STATE OF THE STATE OF THE

CONTROL MOSE LINES

or final control of the control of the second of the secon

configuration of a social

C. W. D.

reflecting the favorable terms at which they were being sold in later years. For certain commodities, it may seem surprising that smaller volumes were being exported at times of higher prices. Exports of copra, for instance, declined sharply in 1974 when the unit value registered a historic peak. This was however due to a government policy measure, adopted in August 1974, setting a floor export price for copra at \$590 per metric ton (f.o.b., Philippine port). Market interference was likewise the reason for the decline of log exports after 1973 despite an improvement in export price: a presidential decree was issued in 1974 phasing out exports of logs in favor of domestic log processing and exports of wood products. In the case of sugar exports the government, which assumed control over marketing the entire sugar crop with the termination of preferential treatment in the U.S. market in December 1974, had to find new export markets beginning 1975.

As is evident from Table 5, nontraditional manufactured exports had expanded generally rapidly since after the 1970 devaluation. A marked deceleration occurred in 1972 and 1974, compensated however by high growth rates in other years. The impressive performers had been clothing, electrical machinery and appliances, transport equipment (mainly automotive spare parts), travel goods and chemical products. Energy-intensive commodity exports, especially cement and paper products, seem to have lost momentum with the onset of the oil crisis, perhaps having their international competitiveness

Captings of the

University of the Philippines System School of Economics Library Diliman, Quezon City

FILIPINIANA

¹⁵This was later rescinded when export sales suffered a steep decline.

reman marks m Dio	Lain area yea Tabled5 is three elements of any single-)
NONTRADITIONAL	MANUFACTURED EXPORTS OF THE PHILIPPINES 1970-1976	۲Ċ
Salar Salar Barrelli	(f.o.b. value, million U.S. dollars)	J. (3)

uli like pirotiki s be							
nya ltem an hampuA di be	1970	, eq 1971	1972		1974 _U	1975	ori 35
Bldg. elements and						30 2(NP 2)	icolf
fixtures not to addition and make the Cement and other		sel ein	tegita stea		tend les		3 4 0 mg
nonmetallic mineral products	#900: 3.3	10.3	1884 (1986) 7.9	24.9	36.5	୍ଷ୍ୟୁ ସେଥିଲେ ଅ ସେଥିଲ	∵.ccgy 27 .
Chemicals and products	5.2	6.2	6.2	10.0	15.208	3.2152	5.11 26
Clothing A. KER-46 In a	0.4	0.7		11.4	23.7	-33.1	80
Electric machinery and appliances				. 1800 0.9 8			
Footwear		44 - 0.7 .		. 10 211 10			
Furniture and fixtures		1.4	1.7	3 3	6 1	E 0	•
Machinery and parts				Postust	Todke (19)	1 - 11 -	* 5 * * * * * * * * * * * * * * * * * *
(exc. electrical)			3.0		4.2		7.
Metal products	¹⁶ 1.0	0.9	1.4	doT 27.411	ារ 3្វំវ្ vs	EL 354	3.
Oil products	17.3	24.2	19.3	16.0	17.3 ,	37.4	har22.
Paper and products	0 0	O 1.					-
(exc. clothing)	5.4	95 - 6 • 9 ₅₀₀	· 8.5 ·	24.3	9. 20.1	22.0	28;
Transport equipment	0.1	0.0	0.0	4 1.			
Travel goods,						We VI.	i losm
handbags, etc.	0.9	0.8	1.7	2004 4.5 in	7.6	10.2	
Miscellaneous - Jaha (1986) (1986) (1986) Total	4.3	5.3	8.4	20.0	23.3	46.3	51
7.7.7 .7.7.	41.6	01.0	0/./	148.X	170 K	229.0	304.
(Annual percentage change)	27.6)	Transfer may	rive i seed	(121.4)	atom the		33.

Sources: Central Bank of the Philippines, Statistical Bulletin (December 19 1976 data were obtained from the Department of Economic Research, Central Bank.

significantly impaired. Exports of some consumption goods, e.g., footwear, furnitures and textiles, are seen to have been adversely affected in 1975 by the global recession but appear to have recovered quickly the next year.

The pattern of Philippine/volume (cf. Table 6) reflects some differences among the principal commodity categories in the response to import price changes and the country's varying capacity to import over the period. Imports of petroleum had remained relatively stable, disturbed mainly by the 8% reduction in 1974 when the full force of the oil crisis was felt. The observed increase of 4.3% from 1971 to 1976 constitutes a drastic departure from the average annual 10% rise in crude oil importation in the 1960s.

Cereal imports would be principally influenced by the need to augment domestic production of food crops, which was particularly severe in the early 1970s. The surprising reduction in 1973 was due to the difficulty of securing rice imports during that year of worldwide grain shortage, the government even having some import orders cancelled unilaterally by Thailand on account of the latter's own food problem.

Among the remaining commodity classes, machinery imports (including electric machinery, equipment and appliances) appear not to have been much affected by the inflation and recession of the period, judging by their uninterrupted annual increases. On the other hand, a sharp reduction in

¹⁶Gonzalo (1976), using multiple regression on postwar annual data, obtained a price elasticity estimate of petroleum consumption of and an income elacticity estimate of 1.56.

Table 6

and the property of the second

VOLUME OF PRINCIPAL IMPORTS, 1971-1976 (in million 1970 U.S. dollars, except as noted)

J. 1966

- Charles Carlotte		- ×/e		- 1	7734 AND	·
Item	1971	1972	1973	1974	1975	1976
Crude oil (in million	and the second	ಎಕ್ಡರು ಕಾಣ	ly	to Att	illi tani	E STE
barrels)	66.73	64.94 7.1. V.	67.10	61.76	66.52	_{յու} -69 . 6
Machinery other than electric						
Base metals						
Cereals and cereal preparations						
Transport equipment	103.9	110.7	86.5	202.4	204.1	172.6
Electric machinery, etc.						
Chemical elements and compounds	3 7. 4	49.4	66.7	139.5	90.4	80.3
Misc. chemical products (incl. explosives)	50.1	56.4	71.1	72.3	63.8	65.2
Textile fibers	46.4	45.4	50.9	71.8	63.7	59.2
Manufactures of metal	23.9 	22.1	41.4	38.8	62.4	49.2
					. See	a marine

Source: Calculated from the import values and price indices presented in Appendix Table 3 and Table 3, respectively.

 $v > r \gamma$

 $\int_{\mathbb{R}^{n}}$

ំ) parwar an » (densurpt)

ൂർഗൂ**ഗ്ന** വയ⊖െ

Philippine imports of intermediate materials such as chemicals, base metals and textile fibers is discernible in 1975, reflecting on the demand side a slowdown in the manufacturing and mining sectors but more importantly the relative severity of import restrictions involving these commodities in a year of substantial trade deficit (cf. below).

In combination with the dramatic developments in export and import prices during the period, these volume changes produced values of Philippine merchandise trade characterized by erratic movements in the trade balance. As indicated in Table 7, there was a growing deficit in the country's trade transactions in 1971 and 1972, followed by a reversal to a substantial trade surplus in 1973 as the explosion of international prices of primary commodities began to affect Philippine exports. The export boom continued on to the early part of the next year but its favorable effect on the trade balance was completely negated by the sharp increase in the import bill for crude oil which jumped from \$166.1 million in 1973 to \$573.2 million in 1974. This contributed substantially to the near doubling of total import value for that year and the resulting trade deficit of close to one-half billion dollars. In 1975 the effect of the world recession weighed down heavily on the export sector, reducing the country's export earnings by 16% which, jointly with the continuedrise in imports, jacked up the trade deficit to a record level of nearly \$1.2 billion. While exports showed signs of recovery in the following year, total merchandise trade remained in deficit by slightly over \$1 billion.

The country's merchandise trade balance had been influenced significantly by the movement of the terms of trade during 1971-1976. The direct

		•		91															
Source:	Tog Si		. 1	Others	Private t	Pensions gç	Services U.S	Investment	Travel	Transportation merchandise	Trade	Imports	Exports	ltem	ា្ឋាយ៖) ()	19 f.	i	
Central Bank		gr Î	TOTAL	mac.	transfers	Pensions from U.S. government	rendered s. milita	nt income	: * : * : * : * : * : * : * : * : * : *	;3	Trade balance		a ta 1	m		4			TEL
mk of the	ivoq Irla		<u>-</u> 283.	rece	£3.	6 2	് മാസ്യാ ആ ദേ	-77.9	-10.6	and	-256.9	-1,131.5	874.6	1969	ldan. Hoda	ida 193	نبوج	 (1	
Philippines,	41.5 m.	N.T.	N Sheri		#	ω i nga	emevo tijoL	و د ن <u>دار</u>	o iloz w <u>r</u> a	inge s o o	19	osi •	· .15):	1970	. dažnase	i s	URKEN'I' A	arti d	on
			-55.9	18.6	29.2	63 & ***	30 • 6 ∴	29.7	67 <u>.</u> 5	91 • 2 	-7.4	1,090.1 :	1,082.8	70 ×	i di i mi	_	ACCOUNT IN THE		
Annual Report	2 (A)	.bji. Ejit ≠	-22.3	17.0	34.2	69.0	36.1	-101.1	37.6	-77.0	-38.1	1,186.0	1,147.9	1971	t solve.	(in million U.S.	N THE BALANCE	. 17	Table
t (various	2 (1) . # (1)		-24.3	19.2	80.7	71.5	40.9	-125.1	97.9	-87.4	-122.0	-1,260.0	1,138.0	1972	jon y bed	J.S. dollars	OF	i dw	1e 7
issues).	i de	i.	443.7	165.0	94,2	74.2	41.6	-113.4	61.4	-154-1	274.8	-1,596,6	1,871:4	1973		rs)	PAYMENTS, 19		10.
	i in	107 000		202.		*c. 78.4 78.4				-271.	-449	3,143.	2,693.	1974	e e int	in Dag	71-1976	δVP , mc	†
·Wolfold 19	ons Ynyd	χ±		un y	/t	lore,	Section 1		- :	h	5 -1,196.6	3 -3,45	8 2,262.6	197	Ebd 1			The Co]-£
HET Joe 15	n is Kwin	bə:	on at	211.9	CI9	өс Қ	1 1 M	: .:-	Ç		بلدت .	Othr	AD 198		1.000			coi.	
			,138.9	135.1	148.3	eriaeli 88 80 80	53.0	-253.5	64.5	-258.0	-1,116.6	-3;633.5	2,516.9	1976	។ ១ភ		У.	itar	

nijennya ika sam ya wyana**zabio**

effect is given by

 $\Delta B = X \cdot \Delta P_{x}/P_{x} - M \cdot \Delta P_{m}/P_{m}$

where B is the trade balance, X and P are the export value and price index, and M and P are the import value and price index, each expressed in U.S. dollar terms. For 1974 alone, the reduction in the trade balance due to the deterioration of the terms of trade is calculated to be \$1,111 million. In the preceding year of improving terms of trade, however, the positive direct effect on the trade balance was \$654 million. Over the entire period 1971-1976, Philippine merchandise trade balance would have been higher at least by \$2 billion had the country's terms of trade remained constant.

Non-merchandise transactions partly compensated for the substantial trade gap generally registered during the period. In Table 7 net receipts from private transfers (mainly in the form of remittances by Filipino immigrants) and from travel are seen to have increased markedly. The latter is attributable chiefly to intensified efforts by the government, particularly after martial law was declared, to attract foreign tourists as well as Filipinos residing abroad and to restrict foreign travel by Philippine residents. On the other hand there has been a substantial increase since 1974 in net disbursements for transportation, which was due to higher freight charges

entropolisados en obtablicados como como en conserva de específico de electronido en entropolisado en encarrec

· Draw to the

The sharp reduction in travel receipts during 1973-74 was caused by a decline in expenditures from "rest and recreation" of U.S. military personnel following the de-escalation of the Vietnam war.

¹⁸Special privileges, notably a 50% discount on roundtrip air tickets, were granted to Filipino visitors under the "Balikbayan" project of the newly-created Department of Tourism.

we devise given by

occasioned by the oil crisis.

In total, current account transactions in the Philippine balance of a sign base a few factors as a few fill the few parallel about and all 8 significations were close to being balance in 1971 and 1972, produced a signification account which have seemed to the few fills and few fill

due to the detemioration of the cards of trade it halloungth of op 51.111

The external disturbances in recent years have also left an indelibl

1. [6] · [4

4. of Effects on capital flows to approve the rest grains are set at ... not find

mark on the country's capital account. The need to offset the large defici in current transactions is reflected in the magnitude and direction of capi movements shown in Table 8. Long-term loans, both official and private, in Mon-merchandise from sacrione tarming compositions for the the second creased progressively over the period, indicating relatively successful gov trade gap generally reals are declar the pariot. I hadd ned receipts them ment efforts to sustain favorable credit standing abroad. One consequence univate transfors (mainuv to the force a copie of the inition immigrants) the nearly four-fold expansion of the country's external public debt from and income travelers seement this circulates is easily to the lighter is attributed \$1.0 billion in 1971 to \$3.9 billion in 1976; during 1973-1976 alone, an maph. (in proceedings on the company of the salidation this paints) increase of \$2.7 billion was registered, substantial lean availments coming nartial law ame decimed, to ancesor for Logal a fets at well as fifthour from the Oil Trade Financing Scheme, IMF, IBRD and foreign commercial banks rosiding absended to restrict the few services by Finish in the casidents. On At the end of 1975 the ratio of short-term external debt (one year maturity the other vanither, the colors of the autist increase since 1974 in act of wto total export earnings during that year was .377, which is more than doub servado ingled moveld on w.F asw doiny . The levents and reflectments and the corresponding ratio in 1973 (.168). Private short-term capital, con-

sisting mostly of import suppliers credits and advances for exports, expand

by a deciline in endenditures orm: 'rest and becommation' of 8.S. billower

personnel callewist mix am-essalation of the Vistman way.

one of the second of the try tole secenders during 1975-74 was a reason

It is worth noting that the combined "gross publicized Euro-curre credits" to the Philippines from 1974 and 1975 amounted to \$1.1 billion, w was exceeded only by Brazil, Mexico and Spain among developing country rec pients (cf. Sargent, 1976; p.21).

tal tal ernwas 19

Table 8

CAPITAL ACCOUNT IN THE BALANCE OF PAYMENTS, 1971-1976 (in million U.S. dollars)

Item	1969	1970	1161,	1972	1973	1974	1975	1976
Official grants & long term capital	151.0	131.3	45.0	153.6	212.2	248.0	548.3	1,216.0
Reparations from Japan	35,3	13.1	26.4	20.6	45.0	6.44	32.0	13.5
Other grants	13.6	13.4	6° tr	15.2	32.3	30.3	34.2	18.9
Private loans	82.4	89,5	4.46-	-17.0	-5.1	32.2	126.0	336.5
Official loans	14.1	41.4	8.69	160.6	77.2	112.4	232.7	703.4
Other private capital	7.4	-24.3	3.9	-21.9	64.5	28.0	125.2	143.7
Other official capital	-1.8	-1.7	l I	-3.8	-1.7	;	-1.7	1
Private short-term capital	57.9	75.9	91,7	55.8	74.6	231.3	102.0	-95.9
Net errors and omissions	-62.3	-147.2	-142.5	-107.0	-66.1	₽.78 −	-181.7	-145.0

Source: Central Bank of the Philippines, Annual Report (various issues).

in 1974 to more than three times the preceding year's value. 20

The item "Other private capital" in Table 8 pertains to direct fore investment, which is seen to be either negligible or negative 21 in the intwo years of the period under study. This may be attributed to the social unrest evident during these years and the uncertain status of American-own assets after the expiration of the Laurel-Langley Agreement scheduled in July 1974. With the imposition of martial law and the government's avowed policy of attracting foreign investment, substantial capital inflow began 1973. While a noticeable decline occurred in 1974, the rapid growth of deforeign investment in 1975 and 1976 is striking, attributable perhaps to promotional efforts of the government that swamped any negative influence the continuing world recession.

Overall, capital movements have enabled the country to withstand to pressures on the balance of payments at least during 1971-1974, and even the level of international reserves held by the Central Bank from about \$ billion in 1971 to \$1.3 billion in 1976. The repercussion on the country external debt has been quite severe: from a level of \$2.2 billion in Jan 1971, total external debt outstanding (public and private) increased to \$ billion by December 1976.

5) Overall monetary effects

Reflecting the instability of the overall balance of payments duri 1971-1976, changes in international reserves and other monetary movements

The net outflow of \$96 million in 1976 was due to the "deposit we the U.S. Exim Bank of the proceeds from bond issues in New York for the country's nuclear power project" (Central Bank Annual Report 1976, p.44).

²¹Substantial sale of American asset holdings to Filipino national underlies the negative entry for 1972.

have had varying effects on the country's money supply over the period (cf. Table 9). The surplus years from 1971 to 1974 witnessed increases in money supply of external origin ranging from \$\mathbb{P}\$566 million (in 1972) to \$\mathbb{P}\$4,643 million (in 1973), prompting the monetary authorities to make offsetting adjustments in domestic sources of credit creation in order to maintan a semblance of stability in the growth of money in circulation. The resulting net changes in money supply were therefore due as much to the instability of the external sector as to the policy reaction to it.

The average rate of money expansion in the 1960s was 10.5% yearly, the standard deviation of annual changes being 6.5%. For the period 1971-1976 the corresponding figures are 21.4% and 6.5%, indicating a doubling of the average annual growth of money supply but the same degree of variability from year to year. However, examining only the contribution of the external sector to money supply changes, one finds the variability during 1971-1976 to be far greater than in any other postwar subperiod.

The Clargest money supply increases of external origin occurred in 1973+1970 and 1974; however, while public sector activities were contractionary during both years, net expansion of money stock increased most markedly in 1974 (by a record-setting 25.4%), which saw private domestic credits rising by 85% and contributing close to \$\mathbb{P}2.5\$ billion to money supply -- an amount unmatched in the postwar period. In the succeeding years 1975 and 1976, the external sector was deflationary on account of the balance of payments deficit.

Clearly the conduct of monetary policy during the period under study has been made difficult by the instability of the external sector affecting in an unpredictable way the country's overall balance of payments.

gn tial

d

n .

e 4

ised

ry

h

Table 9

Addition (which is to

CHANGES IN MONEY SUPPLY BY ORIGIN (in million pesos; December 31)

nunces of chedit sec

	tom So on town and to with					
	1970-71		1972-73	1973-74	1974-75	1975-
Internal	-85.9	662.8	-3,287.1	-321.7	5,236.2	3,135
Public sector	25.9	-419.1	-2,153.8	-2,768.5	4,865.7	3,652
Private sector	-111.8	1,081.9	-1,133.3	2,446.8	370.5	-516
External	605.9	566.4	4,643.0	2,389.3	-3,929.2	-1,375
Int'l reserves	200.0	719.1	4,173.8	3,696.5	-380.4	394
Compensatory	7	\$\$ B	eda josepa		_	
borrowings abroad		i dasir	467.6	-937.5	-1,289.2	
Use of Fund credits			-49.6	242.9	-872.5	
Foreign currency dep	405.9 posits	-152.7	152.3	-118.1	-889.2	> -981
CBCI foreign current	су	:	-101.1	-494.5	-497.9	, e-
Net change in money supply change	520.0 (10.1)	1,229.2 (23.7)	1,355.9 (20.9)	2,067.6 (25.4)	1,307.0 (14.5)	1,760 (17

Source: Central Bank of the Philippines, Annual Report (various issues).

larav.

O 75.

6, Effects on domestic production

76

5.9

2.0

1.1

.8

.6

.2

According to the most recent official estimates, GNP at constant prices increased at an average annual rate of 6.5% from 1971 to 1976. From Table 10 the highest rate of increase (9.6%) occurred in 1972-73 and the lowest (4.9%) in 1971-1972, the remaining three-year period 1973-76 showing GNP growth rates within 5.9% and 6.3%. While "potential GNP" must be considered a highly elusive concept for developing countries, it seems plausible to argue that an annual growth of 8 - 10% for the Philippine economy would not have been unlikely during the period under more stable conditions in the country's external sector. For one thing the loss in real income due to the worsening terms of trade has been relatively substantial. The change in GNP directly attributable to the movements in export and import prices (in U.S. dollar terms) is given by

$$\Delta Y/Y = s_x \Delta P_x/P_x - s_m \Delta P_m/P_m$$

where Y denotes real GNP, and s_x and s_m are the the ratios of exports and imports, respectively, to GNP. The following percentage changes in GNP were calculated: -3.31% for 1971-72, 6.18% for 1972-73, -7.81% for 1973-74, -5.54% for 1974-75 and -2.24% for 1975-76. On this basis, therefore, the Philippine economy could have grown faster by about 2.5% annually on the average during 1971-76 had the country's terms of trade remained constant.

. 1

That the official growth rate target of 6.5-7.5% during the Plan period FY 1974-77 is "quite modest ... in view of the changes in national policies which now enhance the climate for investment and output growth" has been expressed by Sicat (1974; p.246).

Table 10

will be mest size on "III grettembra.

Districts of the graduate of the control of the con

PERCENTAGE CHANGES IN GROSS NATIONAL PRODUCT BY INDUSTRIAL ORIGIN, 1971-(at constant 1972 prices)

Effect ton domest

医骨骨 医三性 一性 化二氯化镁医二溴化

and the common terms of the property

Industry	1971-72	1972-73	1973-74	1974-75	1975-
an el da esa la estación de	ej taear	#2 1 ft - 141 - 1	o galdolore	u do ⁿ record	o svit
Agriculture, fishery and forestry	7 290 Aprile 7	**************************************	1.6	- 3 3.7 - 50.	5.7
Industrial Cector	olu ¹ .7.5 ~ ~	12.5	**************************************	n ∋ng.7nin n	8.4
Mining and quarrying	2.5	4.1 4.1	1.8	1.4 ¹⁷⁷	2.4
Manufacturing	6.3	14.8	3.3 et a.	3.5	5.6
Construction	17.1°	7.8	6.2	52.4	22.0
Utilities	3.1	5.7	2.9 ^{kd} as	via 6.4 (a	7.4
Service Sector	3.6	6.6	~~ ~ 4.7	6.0	5.2
Transport, etc.	se 5.4	å 8.0 ੂ∂	Parte 6.19 20 - 02	11.2 (6)	y 7.0
Commerce	. 4. 2.9 mgaly	5.5	(18 o: 3.5 /jev)	::::::::::::::::::::::::::::::::::::::	5.3
Services 48.8 . A	4.2	·/ * - 8.1 ;:	Ver 46.0 810.	Ç. 5.4 . _{5±1}	- <u>.</u> 4 . 4
Gross National Product	4.9	9.6	:	n 8 /5.8 781 1	6.3

Sources: Statistical Coordination Office, National Accounts Staff, National Economic and Development Authority: "The National Income Account of the Philippines, CY 1971 to 1975" (September 1976; mimeo.) for 1971-1973 data, and "The National Income Accounts of the Philip CY 1974-1976" (December 1976; mimeo.) for 1974-1976 data.

quite rodes ... in view of the changes in national Lines which now the chirate for investment of anther growth?

(3:00) (370) (3:00)

ie i zworz pred pisopi i kanow.

THE THEFT IS

Less expressed a

Other sources of exogenous disturbance alluded to earlier, e.g., the series of natural disasters in the early 1970s and important changes in policies after the imposition of martial law, impinged on the Philippine economy during the period, affecting differently the various components of national product. In order to isolate their effects, disaggregative analysis is necessary.

Output levels of the major primary products from 1971 to 1976 are shown in Table 11. Their movements over the period would largely account for the observed annual changes of the agricultural sector in the national income accounts. As mentioned above, the food crops (palay and corn) suffered from weather and other misfortunes through 1973, which explains the downward trend of output. Subsequently, improved weather conditions and the government's massive food production campaign started in 1973 by the Masagana, 99 program, caused an upturn in crop output. While these internal developments were mainly responsible for the observed patterns of agricultural food production, two relevant considerations pertaining to the external sector need to be pointed out. One is the possibility of a shift in some places from rice farming to sugar production due to the latter's greater profitability before the Masagana 99 subsidies; 23 Treadgold and Hooley (1967), for instance, have claimed that this was a significant development after the 1962 peso devaluation. The other consideration is the substantial increase in the prices of fertilizers and agricultural chemicals following the oil price rise in 1973-74; the cost of

 $^{^{23}}$ No quantitative information is however available to verify this particular hypothesis.

efform the first the failure of the first the security of the

and responding the control of the co

Table 11 .

AGRICULTURAL PRODUCTION, CROP YEARS 1971-76

piev as a sug(thousand metric tons, except as noted) and constructions as

A Macessury

.,005	· :5 ,1 00:	1830 H. 9	415					
				5,594	NEO:	5,660	· " ,6	,15
,005	A 2-049							
	1 24010	(() at 1 ,	831 . ₉₉ 6	2,289	ežju	2,568	. 21-2	,7 6
⊾,574 de	1:1,703	1,	698 : 30	1,703	te d	1,820	os 4 1	, 86
2 ,1 09 i al	. 1-,870		305 mge	2,505	malami.	2,455	, q _{ay} , 3	,57
-:2 3 4	282	Ledande	293	338	toub	c 1. 383.	ot svi	42
+ ,528 000	3,577	· [. · : 3/,	812	2,959		2,588	ris [3	, 66
anesi	Limina	÷ . 133	लाइस्ट ह	97/3 - <u>1</u> -	1, 1	7 1	idizac	oga:
	.,109 ()) -: 234 () .	2,109 11654;870 1234 1764 282 1,528 1764 3,577	2,109 3 lbs1,870 5 5,2, 36234 6 176 282 adminis 4,5286 5,6 3,577 6 local,	2,109 a bb.1;870 a 2,305 a a a 234 a 164 282 a a a ba293 a a 4,528 a a a b 3,577 a b a 3,812 a a a	2,109 16	2,109 165,1,870 1.2,305 1.2,505 1.6,234 1.6,505 1.6,282 1.6,5284 1.6,5286 1.6,5776 1.6,635,812 1.6,5286 1.6,	2,109 16 1,870 2,305 2,505 2,505 2,455 2,234 2 2,82 2 2,505 2,455 3,528 2,528 2,528 2,528 2,588 2,528 2,528 2,528 2,528 2,528 2,528 2,528 2,588 2,528 2,528 2,528 2,528 2,528 2,528 2,528 2,588 2,528 2,	1,574 doi:1,703 (1,698 soul,703 do 1,820 do 1,82

Sources: Central Bank of the Philippines, Statistical Bulletin (December 1975)

1976 data were obtained from the Department of Economic Research,

Central Bank of the Philippines.

²⁰ No paperizativ i i makion is however available to varify this wringuse continuis.

subsidizing food production has therefore increased significantly.

The remaining primary commodities listed in Table 11 are exportables, their level of output generally following the pattern of actual export flows during the period (cf. above). Hence the recent instability in the world economy has significantly affected production of agricultural export commodities, which jointly account for about one-fourth of value added in the agriculture, fishery and forestry group. Indeed the same statement applies to the heavily export-oriented mining sector, which was hardest hit during the recession years 1974 and 1975.

Manufacturing industries also performed relatively poorly during 1974 and 1975, the growth of total production dropping steeply to 3.3% and 3.5%, respectively, from the 14.8% increase observed in 1972. These aggregative growth rate figures conceal however large differences in the output performance of individual manufacturing branches. As shown in Table 12, electrical machinery, transport equipment and miscellaneous manufactures enjoyed continued output expansion at high rates through 1975. The most adversely affected were such export-oriented industries as footwear, textiles, wood products and furniture, as well as the heavy oil-using sectors like chemicals and petroleum. Other industries such as paper, food manufactures, tobacco, rubber and metal products began to falter only in 1975. On the other hand production in some sectors, e.g., leather products, nonmetallic mineral products and basic metals, rebounded quickly in 1975 from depressed levels in the preceding year.

As a general observation, the increasing trend after the 1970 devaluation in both mining and manufacturing output was interrupted by the adverse external conditions during 1974-75; it would appear however that recovery

Table 12 conditive per second and the contract of the action of the contract of the con

in the Huser of the Congress of Election

giran hample toched had t

PERCENTACE CHANGES IN GROSS VALUE ADDED IN MANUFACTURING, 1971-1976 (at constant 1972 prices) wind the purch (ci. anove). Heads the means into the try in the day was a

ete 75000 anto ess.	Heathard Stradeskin Constraints in the	200 000 1 222	rina dedaer	iis ytunsoi	has stanti.	greaty
	Industry Group	1971-72	1972-73	1973-74	1974-75	1975-
1.	Food manufactures a second second	1864 -1.8	#670. 6\$8 3	-16:7%		i John
2.	Beverage industries	9,4 11 0000			2.7 ₅₉	
3.	Tobacco manufacturers	16.1	35.9	12.9		л эдаг с 1.
4.	Textile manufacturers	6.3	6.8			ne rese .e
5.	Footwear, wearing apparel	-12.2			8.6	
ŝ.	Wood and cork products	2.5	7.7	1.8		23.
7 e	Furniture and fixtures	-12.2	4.7	-2.2	-15.9	12.
∂.	Paper and paper products	19.0				
ž.	Publishing and printing				4.0	
1.O.	Leather and leather products			4.0	15.4	10.
11.	Rubber products	5.3	8.2	8.0	1.600 1 1 1 1 1 1 2 . 3	-1.
12.	Chemicals and chemical produc	sts 33.6	10.0 ·	4.1	M 3 4.3	11.
13.	Products of petroleum and coa	al 11.6	29.6	-10.2		-0,.
.4.	Non-metallic mineral products	s -2.2	34.2	-9.4	10 ц	4.
15.	Basic metal industries	4.6	28.6	ar 9000 kg -4.0	16.2	
	Metal products					
17.	Machinery except electrical					
18.	Diectrical machinery	-3.8	5.9	8.5	8.6	0.
13.	Transport equipment	-0.4	8.7	ii	22.4	ardetin 5.
20 ., s	Miscoldaneous Proudong is an					
	in the medeling year.					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- 1200 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The second section of the second section of	The state of the s	THE STATE OF THE S	opportunities and the

Scurce Maddistical Coordination Office, National Accounts Staff, National Econ Development Authority: "The National Income Accounts of the Philippines Linvilly dell'1 do 1975" (September 1976; mimeo.) for 1971-1973 data, and The National Income Accounts of the Philippines, CY 1974-1976" (December 19 vaineov) for 1974-1976 data. Sister is filtered gricule moderation in the

was underway by early 1976, underscoring the strong dependence of these production sectors of the Philippine economy to the level of world economic activity. 24

For land through anything till the Philosophes in especially import-Among the industry groups distinguished in the national income accounts, trette our von al ascabla de l'adiffice de dange en atachte or construction exhibits the greatest variability in output during the period. ramoni di yrad_{ben}, p_{ort}yrano see le wolv ni bunelun nobi spa e However, internal factors rather than external developments chiefly underlied the observed pattern of construction activity. In 1972 the extensive damage caused by the severe typhoons and floods to infrastructure facilities, partic-1. Tighton mark outple transmicilities to 1000 outple ularly in the food-producing regions, required a step-up in government consillo div omin terrett - to eastfine tey in truction expenditures, which increased by 64.6% in that year. Including private construction, real value added in this sector expanded by 17.1% removed, resease busine and create the provence (cf. Table 10). This represented a drastic departure from the average annual growth rate of only about 3% in the 1960s. More substantial increases in construction output occurred in 1975 and 1976 (by 52% and 22%, respectively), this time hotel-building and other tourism-related projects were the principal concentration of expanded construction activity, participated in by the eren i saaramoaron een telt en filow is (en) private sector but heavily underwritten by government financial institutions.

1987年 - 1980年 - 1987年 -

Linguis (1974)

The growth rate of value added in real terms from the first semester 1975 to the corresponding period in 1976 was 4.6% in mining and 4.3% in manufacturing elygnofron a ser Ten manage elle tendet

^{25.} Fourteen international standard hotels were constructed in 1975-76 at an estimated cost of \$3,750 million (Stretton, 1977) for the immediate purpose of accommodating the delegates to the IMF-World Bank Conference held in Manila in October 1976. As of September 1977 the 14 hotel companies reportedly owed the Development Bank of the Philippines and the Government Service Insurance System F1.8 billion, which debts were to be rescheduled (Philippine Daily Express, September 6, 1977). This is a commence of the comm

### 7. a Effects on employments and wage income and the 1975. The very very remaining the

For labor-surplus economies like the Philippines an especially imporant aspect of the effects of recent external disturbances is how the extent of labor use has been affected. In view of the existing inequity in income distribution (Tan, 1976), it is also of significant interest to examine the resulting movements in the earnings of Filipino laborers from 1971 to 1976.

Because post-1973 employment data from official household surveys are not yet available at the present time, it is not possible to provide a comp hensive examination of the actual pattern of labor utilization during the period under study. One would expect, however, some correlation between the output and employment effects of the recent instability, differences among industries being attributable to differences in the elasticity of employment with respect to output. Based on the above discussion of the changes in sectoral production, employment in the primary export industries (including mining), as well as the manufacturing sector, would have been adversely affected by the 1974-75 recession.

្រុមស្រាក់កំពុសមណៈមិស្សា មួររំប្រទេស។ ប្រ. ប្រធាន ១៨ស Evidence for the mining sector is provided by the movement in the Central Bank employment index (based on a sample of 18 mining corporations Confidence to the State of the Confidence of the the towns from the line semestern as_follows: 1974; - 9307, 1972; - 100.0, 1973 - 110.7, 11974; -106.8, 1975 102.3 and 1976 - 107.6. Although a sharp increase in mining employment ourt en inversational steedard hotels were toretriched in 196476 accompanied with export boom in 1973; absolute decreases in the number of one of accommoditing the delevites to the DMF-World Bank Comference h persons employed characterized the recession years 1974 and 19750 Even wi memorary Jak the period that the the fellipines and the Communer the recovery observed in 1976, the level of minding employment has not quit Lipping Dar'y Express, Hapterbur . 17 Th attained the 1973 mark.

For the manufacturing sector, employment data are available until 1974 only from the Annual Survey of Establishments (ASE) published by the National Census and Statistics Office. It would appear that manufacturing employment increased in 1971 by 4.5% over the preceding year 's level. During the next two years there was a remarkable expansion by 27.4%, reflecting the rapid growth of manufacturing value added in 1972 and 1973 as noted above. In the following year a weakening of manufacturing employment occurred, again following the pattern of manufacturing output, except that there was even a decrease in employment level in 1974 by 1.1%.

While recent employment data are scarce, there is much available information on worker earnings. Table 13 contains data for 1971-1976 on wage rates of skilled and unskilled laborers in industrial establishments in the Greater Manila area and average earnings of salaried employees and wage earners in nonagricultural industries in the Philippines. Apparently, for each of these four categories of workers, the gradual upward movement in money earnings has not matched the sharp increases in cost-of-living (especially in 1973-74), resulting in a general deterioration of real incomes during the period. There was however some improvement in the real earnings

²⁶For 1972 a manufacturing <u>census</u> was conducted in which only establishments employing 10 or more workers were covered, precluding comparability with the ASE data for other years.

²⁷Real wage rates and earnings were obtained by deflating nominal values by the relevant consumer price index.

at the culture of the Catabook safety of the control of the catabook ground them to be the catabook of the cat

- Common Declar Education Common Table 13 The Common State Common Common

The confedence with the constant of the second of

INDICES OF NONAGRICULTURAL WAGES AND SALARIES, 1971-1976

of other for the control of the cont

on the Color of Contrate and the color

Item	1971	1972	1973	1974	1975	1976
				warkeni	g year a	COLON ELF
Money wage rates*			, · · · ·		Protection in the	nis
skilled laborers	95.3	100.0	ունը <b>105, 3</b> - բ	115.1	119.7	J24.4
unskilled laborers	94.3	100.0 * 2.7 * *15	102.7	110.8	<b>120.1</b>	<b>126.2</b>
Real wage rates*						
skilled laborers	105.2	100.0	95.4	77.4	74.4	73.2
unskilled laborers	104.0	100.0	92.8	74.5	74.6	74.3
Nominal earnings**	eli Kari	वरे ५७७	rreut (1 - 1:	លោងសេ <b>ត</b> ់ក	ກຸຣກູດກ ກ່	to anno
salaried employees	93.4	100.0	111.1 o sarrogo.	<b>121.6</b>	<b>136.9</b> pred % 7	<b>154.</b> íose re
wage earners	90.6 . 885.70	100.0	<b>112.2</b> Parid baris	110.9	<b>124.4</b> Ad <b>35</b> 000000	143.: 30 yearo
Real earnings**						
salaried employees	101.1	100.0	99.0 199.0	77.6	81.2	86.
wage earners						

^{*} Manila and suburbs. Todouber: sim ** Philippines. He was to come of the suburbs. Todouber: sime of the suburbs. The suburbs of the suburbs

Sources: Central Bank of the Philippines, Annual Report (1976) and the Statistical Bulletin (December 1975).

. is vege e per ind periode periode cominge who be invested by difficulting nominal actions for the transfer dealers.

salaried and wage employees in nonagricultural industries in the Philippines after 1974 as the inflation rate fell significantly. Skilled industrial workers in Manila have suffered a loss in real purchasing power by 30%, the unskilled workers by slightly less. It would appear also that nonagricultural wage earners working outside Greater Manila had not been as severely penalized, and that salaried workers experienced the least (but still significant) reduction in real income.

Such deterioration of worker earnings would be due to the effects of both the recent external disturbances which reduced the demand for labor (at least during the recession years) and the various policies adopted by the government with respect to prices and wages that failed to protect the real income of laborers, which will be further discussed below.

## 8. Investment effects

No survey of the effects of recent external disturbances on a developing country like the Philippines would be complete without looking at how the level and allocation of domestic investment might have been influenced. One normally expects that investment would depend positively on the level of national income and, in foreign exchange-constrained economies relying heavily on imports for physical capital accumulation (such as the Philippines), also on the country's capacity to import. This is borne out by the following estimated equation based on Philippine data for 1952-1975:

$$I = -2125 + .166Y + .667M$$
 $(4.91)$  (3.08)

$$\bar{R}^2 = .954$$
 D.W. = 1.20

where the numbers in parentheses underneath the regression coefficients are the t-values, and

I = gross domestic capital formation

Y = gross national income

The real results spiriture nations of the real results and the real results are real results.

ta de la revol**sacificac**e de la decembra de la compacta de la compacta de la CARC de la compacta della compacta de la compacta del compacta de la compacta del compacta de la compacta del la compacta del la compacta del la compacta de la compacta della compacta dell

M = total imports, -bubble fillips for a real looks a period of the real medians are included as the real results.

A TELEPOTORIES DO LO LONGERO

each expressed in million pesos at 1967 prices. Thus the marginal propensity to invest is about .17 and two-thirds of any increments in imports take the form of investment goods.

our redsource bearing the conference of the recommendation in the comment of the con-

It turns out, however, that large regression residuals characterize the recession years 1974 and 1975, i.e., the predicted values are much below actual investment levels. Indeed, while real GNP and imports registered relatively low rates of increase in 1974 and 1975, capital formation has expanded at unprecendented rates of 24% and 20%, respectively.

an examination of sectoral investment data, which information however is not available. While the Central Bank publishes data on "capital investments of newly registered business organizations classified by industry", it is not possible to obtain recent data on reinvestments of existing firms.

For what they are worth, the Central Bank data (when appropriately deflated) indicate substantial new investments in 1974 for the following sectors: agriculture (39% over 1973 level), forestry, fishing and livestock (121%), manufacturing (57%), and construction (43%). In the following year, however sharp reductions occurred in forestry and manufacturing, while new invest-

医乳腺 医医肾髓 化二甲磺胺医二甲磺酸

ments in construction increased at an even higher rate of about 100%. 28

The latter is in accord with the earlier finding of rapid expansion in construction activity during 1975-1976. For the other sectors mentioned above, 29 it would appear that only in the second year of the world recession were profit expectations sufficiently affected to deter large investments by prospective investors.

#### 9. Other effects

er,

There are of course other channels through which the international transmission mechanism operates, and on which only a few observations will be made here as they impinged on the Philippine economy. For one thing, the deterioration of real income of workers which, as noted above, was most serious among skilled industrial laborers in Manila, might have impelled some of them to seek better job opportunities abroad. Indeed the overseas migration of Filipino workers has expanded markedly in recent years, which is consistent with the substantial increases in net receipts from private transfers in the form of remittance noted earlier.

Not only labor but also domestic capital and technology may transfer to another country in response to economic forces created by some instability in the world economy. (A disequilibrium situation invariably improves the economic opportunities in some places relative to others). This is illustrated

This was facilitated presumably by the much expanded credits extended by government financial institutions to the construction sector. For instance, while the total amount of loans granted by development banks (which is dominated by the government-owned Development Bank of the Philippines) trebled in 1974-75, loans to "real estate" increased more than six-fold.

²⁹Central Bank data on new investments (undeflated) in mining show remarkably stable values from 1973 to 1975.

Southeast Asian countries by certain Philippine accounting and development banking companies. A few local construction and engineering firms have likewise gone "international" in recent years, winning bids to set up infra structure facilities in some Middle East and African countries.

THAN BE PRINTER VE Finally, there are demonstration effects that may defy quantitative evaluation (Krause and Sekiguchi, 1977). The growing trade imbalance since 1973 has accentuated the need to increase foreign exchange earnings in the Philippines. Among other things, the government has exerted much effort to promote tourism. Taking cognizance of the demonstration channel, it would be useful to determine the extent to which the increasing flow of tourists and other foreign visitors into the country has affected the economic and behavior of the local population, and also to ascertain the economic repercussions of tourism development beyond that of raising foreign exchange. Tourism does present a dilemma in that the expenditures of foreigners provide direct benefits to the economy but also encourage luxury spending by the local population (since tourist facilities and amenities are not elle kaa yks taolosiissa kki lasta. Virasest skullisti tuksi tai fenced off for foreigners only). Moreover, tourism-related activities may James Bir lempe ing linds, evab i nome. Littin mins in lind gap treet al legislept in meditags at not even yield as high rates of return as other industries, as the recent overbuilding of hotel capacity in the Philippines seems to indicate.

### IV. The United States and Japan as Sources of External Disturbance

poster applied width to a proper and the carrier was the second being the contract of the cont

Debugge Due to colonial ties dating back to the turn of the century, the sensited of motion of the century, the sensited of motion of the century, the sensited of motion of the United States as believed accommon to the United States as a market for exports and as a supplier of imports a Since the granting of

ික්කරුව දිය රාජන යන රෝදම අවදවිත්ව දෙදු විශ්ය මතකට වන කියන වන අවසිර 2008 දී විශේෂිතයට

1.21 m. a. 1.51. m.m. haring sidety widewards

political independence in 1946, however, a gradual reduction of the U.S. share in Philippine foreign trade has taken place, particularly in the 1950s and 1960s, accompanied by an increasing level of trade flows with Japan. By 1970 Japan was contributing about the same proportion to total Philippine trade (30% of imports and 40% of exports) as the United States. With the recent drastic increase in the relative importance of crude oil to the total import bill, the combined share of the United States and Japan in Philippine imports has dropped to about 50%; similarly the export share of these two countries has been reduced to a total of about 60% after 1974.

Such strong links in trade with Japan and the United States make the Philippine economy inherently subject to exogenous shocks emanating from these two large countries. Indeed, given the extent to which they dominate Philippine foreign trade and payments, a large part of the recent external disturbances described above, with the exception of the "oil crisis", would be traceable to the economic instability in Japan and the United States, The severity of the recent external shocks is due in part to the unusually high degree of synchronization of economic changes in the two countries, as suggested by the movements during 1971-1976 of certain price and activity variables shown in Table 14. (A possible exception is the observed changes in exchange rates, whose effects on the Philippine economy have been described above).

It is worth noting that the sharp downturn in GNP and industrial production occurring in 1974 in both countries was accompanied by a substantial increase in their export price indices. Presumably, the

Table 14

and the milest compared the stable

o policy prymer in wildingst 6000 og inchaget.

rwide esidiins

# ANNUAL RATES OF CHANGE IN SELECTED ECONOMIC INDICATORS: THE UNITED STATES AND JAPAN, 1971-1976

in the section of the

(in per cent)

Philippies amade 130% of imports of a solution of the control of the control of the control in accept

Item	C 89870 C 1971	1972 1973	1974	1975 1976
	odaso el tra	spitimac	edf ,i. :	Procesi Telod edi
GNP (at constant	t prices)	j sy ja sa	សាសាធា <b>ធិ</b> ខ្ពស់ ១ស	on . Tomkagilligic
U.S.	3.0	5.7 5.5	-1.7	-1.8 6.2 ⁿ
Japan	6.8	9.0 hers9.9	1996 <b>-11.2</b> 986	0.2.1 0v. 6.0**
Industrial prod	uction	trefe with	og links in	ਜਿ <b>ਜ</b> ੀਏ ਗਿੱਥਲੀ
U.S.	1.7 rega kilo – subaere e 2.8	9.2 8.4	-0.4	-8.9 10.2*
មើលវិកិត្តិ ១៩៩៩១គែក *	итт къш и кисатъси <b>2.8</b>	7.2 15.6	." (91691616 yek -3.1	-10.6 13.75**
Japan	2.8 Volen od jerime oda	torky beast	. White will the	tymp owi east
Export price in	dex menev) ha dasa saan	. s.,21498789	one sheri de	hanna amhanille
U.S.	3.2 	3.7 17.7	28.3	10.0 3.4
Tanan	0.7	-2.9 9.0	33.7	-2.9 1.4
Japan	the the decein	l ytilidsmari	· 1.00 以此一种基础	of oldner my
Exchange rate (Phil. peso per	e:) - 124 - 12 - 14 - 18 i	sabera Ismati	j tropica sit	ij voigeves ad
U.S. dollar	8.6 en 22.2	3.7 oim robe 10.3	0.5	6.8 2.7 • 11 0errer   digid
Japanese ye	en 22.2 Suit of disagen to t	8.0 9.1 Saturated process	<b>-6.3</b> 9. (1905) m	5.3 6.9 Eff on Languague

^{*}Preliminary. **OECD forecast as of December 1976.

adi si saismove svitavej iv

Sources: Economic Indicators (January 1977), prepared for the Joint Economic Committee of the U.S. Congress by the Council of Economic Advisers

OECD, Main Economic Indicators (January 1975 and March 1977).

International Economic Indicators and Competitive Trends, U.S.

Department of Commerce (various issues).

simultaneous recession and inflation in the two countries affected adversely the foreign trade of the Philippines, as did other small economies strongly attached to the United States and Japan, in many ways, Here we are interested in estimating the contribution of the economic instability in these two countries to the observed changes in the external disturbance variables which initiate the macroadjustment of the economy, in particular the movements of the import price index and value of exports. The latter variables jointly determine the country's capacity to import, and hence the trade balance, etc.

Table 15 presents such estimates, obtained for each year by multiplying the import or export share of Japan (U.S.) in Philippine trade flows during 1973-74 by the ratio of the percentage change of the price index of imports from or value of exports to Japan (U.S.) to the percentage change of the aggregate import price index or total value of exports. Japan is seen to have contributed more than the United States to the changes in the import price index from 1970 to 1974; in the latter year when world oil prices quadrupled, the combined contribution of the two countries was understandably small (28%). Annual fluctuations of Philippine export earnings during the period had been quite severe, as shown earlier; from Table 15 one finds the contributions of the United States and Japan to be very large. Indeed, in the two years (1972 and 1975) for which the sum is greater than unity, there were changes in Philippine export flows to other countries which tended to offset the synchronous movements of export receipts from

er sent theme X 1/2 A Drug of experience - 3 to 1 have of experience.