



OECD Economics Department Working Papers No. 64

Revised Groupings for Non-OECD Countries in OECD's Macroeconomic Model INTERLINK

Paul O'Brien, Laure Meuro, <u>Arthur Ca</u>milleri

https://dx.doi.org/10.1787/362227216417



OECD DEFARTMENT OF ECONOMICS AND STATISTICS

WORKING PAPERS

No. 64 REVISED GLOUPINGE FOR NON-OECD COUNTRIES
in OECD's macroeconomic model INTERLINE

by

Paul O'Brien Laure Heuro Arthur Camilleri

Belance of Payments Division

January 1989



GENERAL DISTRIBUTION

ECONOMICS AND STATISTICS DEPARTMENT

WORKING PAPERS

This series of Working Papers is designed to make available, to a wider readership, selected studies which the Department has prepared for use within OECD. Authorship is generally collective, but main individual authors are named. The Papers are generally available in their original language, English or French, with a summary in the other.

Comment on the Papers is invited, and may be sent to OECD, Department of Economics and Statistics, 2 rue André Pascal, 75775 Paris Cedex 16, France. Additional copies of the Papers on a limited basis can be forwarded on request.

ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT

Copyright OECD 1989

This paper provides details of the regrouping of non-OECD countries which has been carried out for the purposes of the forecasting and modelling work in the Department of Economics and Statistics. The new groups were used for the first time in OECD Economic Outlook no. 44.

* * *

Cet article présente des indications détaillées sur le reclassement des pays hors OCDE qui a été effectué dans l'optique des travaux de prévision et de modélisation du Département des affaires économiques et statistiques. La nouvelle classification a été utilisée pour la première fois dans le numéro 44 de Perspectives économiques de l'OCDE.

REVISED GROUPINGS FOR NON-OECD COUNTRIES in OECD's macroeconomic model INTERLINK

by

Paul O'Brien Laure Meuro Arthur Camilleri

(Balance of Payments Division)

Discussion with other members of Balance of Payments Division, in particular Andrew Dean, and of the Department of Economics and Statistics was an essential part of this work, as was the help of the Development Cooperation Directorate of the OECD. Invaluable help was also provided by staff of the World Bank and International Monetary Fund.

REVISED GROUPINGS FOR NON-OECD COUNTRIES in OECD's macroeconomic model INTERLINK

TABLE OF CONTENTS

| | Page |
|---------------------------------------|------|
| Introduction: the need for regrouping | 2 |
| The new groups | 3 |
| Information on the new groups | 4 |
| Modelling considerations | 6 |
| Data sources | 6 |

TABLES AND CHARTS

- Table 1. Trade, GNP, population and debt totals, by group, 1985.
- Table 2. Trade, GNP, population and debt: principal countries in the four new non-oil developing country groups, 1985.
- Table 3(a). Direction of trade: destination of exports, by group, 1985.
- Table 3(b). Direction of trade: source of imports, by group, 1985.
- Table 4. Commodity composition of trade: exports and imports by group, 1985.
- Table 5. Debt by currency and by interest rate basis (1986).
- Table 6. Principal Debtors, by group.
- Table 7. Balance of payments and trade volumes, by group, 1976-87

Treatment of non-GECD countries and the need for regrouping

- An important tool used in OECD analysis of macroeconomic interaction between member countries is INTERLINK, a world model of which the main components are linked macroeconomic models of each national OECD economy. (1) Many important international interactions are captured by linking these models of individual OECD countries to each other through their trade and financial sectors, but INTERLINK completes the world picture with a set of equations modelling commodity prices and the trade and balance-of-payments behaviour of Key aspects of this behaviour are a set of export non-OECD countries. equations which determine non-OECD exports as a function of the level and pattern of OECD demand, and import equations which determine the level of imports as a function of terms-of-trade considerations and the financial position of non-OECD countries. Non-OECD imports are also an important demand OECD exports, thus "closing" the model of οf for component Investment income of non-OECD countries is also international interaction. modelled in a similar way to that of OECD countries. While the OECD is treated by modelling in some detail the behaviour of each individual country, this would be impossible for non-OECD countries - there are rather a lot of them - and analysis proceeds by aggregating these countries into a number of This Working Paper describes the results of recent work to improve groups. the definitions of these groups and to improve and update the data used.
- The previous grouping of non-OECD countries was based on terms-of-trade considerations -- countries were allocated to different groups on the basis of their principal export: oil, manufactures or basic commodities. This system was designed to distinguish groups which were likely to benefit or suffer from commodity or oil price shocks. Though this was a useful broad approach, the four non-OPEC groups did in fact export substantial amounts of each category in addition, the resulting groups were geographically diverse with of goods; each group, other than the Soviet group, having members from all of the Hence the groupings were only broadly helpful in terms-of-trade continents. analysis and rather unwieldy for analysis of, for example, debt and financial Furthermore the regional integration of, or interdependence among, countries in geographical proximity was ignored. The emergence of an especially-rapidly growing set of four economies in East Asia as a distinct (though far from homogeneous) group in terms of their development as equal competitors with OECD in markets for manufactured goods had also created a demand for separating them from the previous very heterogeneous group of manufactures exporters (which included both Latin American and Asian NIEs as well as South Africa and Israel, among others).

⁽¹⁾ A number of OECD Working Papers have described various aspects of INTERLINK in detail. An overview is provided in Working Paper no. 46, "Recent Developments in OECD's International Economic Model," by Pete Richardson (June 1987).

The new groups

- 3. The definitions of the new groups are as follows:
 - a) OPEC

The new group is the aggregate of the previous low- and high-absorbing OPEC countries and consists of all the OPEC countries plus Bahrain and Oman.

b) The four Asian Newly Industrialising Economies (NIEs)
- Korea, Taiwan, Singapore and Hong Kong

These were previously classified in the group of newly-industrialising countries (NICs) and represented about 60 to 70 per cent of trade flows in that group. They have been separated because their topical interest seems unlikely to diminish in the future. A database of individual country information for this group is maintained and explicit current-balance projections are produced for each economy.

c) Other Asia (i.e. other than in the groups above)

The principal countries in terms of population are China and India. The non-OPEC Middle East is included here. Most countries were previously included among "Low and Middle Income" countries, though the Philippines, Thailand and Israel were NICs, and Syria, Malaysia and Brunei were in "Other Oil Producers".

d) <u>Latin America</u> other than Venezuela and Ecuador (which are OPEC countries)

Brazil and Argentina were previously classified as NICs; Mexico, Peru, Trinidad & Tobago were previously classified as "Other Oil Producers"; the remaining countries were classified as "Lower and Middle Income" countries.

e) Other Africa (i.e. other than OPEC countries)

South Africa, which was previously classified as a NIC, is in this group; the Cameroons, Congo, Egypt and Tunisia were previously in "Other Oil Producers"; and the rest were in "Low and Middle lacome" countries. Note that one of the most important African countries, Nigeria, remains classified in the OPEC group.

f) Soviet Union and Eastern Europe

fhis group comprises the Soviet Union, Albania, Bulgaria, Czechoslovakia, Germany (Dem. Rep.), Hungary, Poland, Rumania and Yugoslavia.

4. The new set of groupings retains the special treatment of oil, although the distinction between "high absorbers" and "low absorbers" (previously treated separately) has been suppressed. This distinction has become less relevant in recent years with lower oil prices reducing the large cushion of current surpluses enjoyed by the low absorbers. The behaviour of this group, as a major influence on the oil market, is of key importance in forecasting

work as a potential source of large external shocks to the OECD. Individual countries are monitored in conjunction with the International Energy Agency. It is intended to maintain internal projections for the external accounts of individual OPEC countries; this will allow some flexibility in regrading aggregates so as to "complete" continents.

Information on the new groups

- 5. The tables and charts below summarise some key information on each new group and its principal members, along with some comparisons with the previous groups. Although OECD modelling and projections deal only with the balance of payments, some statistics on debt, population and GDP are also shown.
- The shares of world trade, population, GNP and debt taken by each of 6. the new groups are shown in Table 1 (excluding the Soviet and Eastern group where World Bank and IMF sources are insufficient to complete the necessary The position of Other Asia and Other Africa at the bottom of information). most rankings is notable, though the predominant position of Other Asia in terms of population gives it a sizeable actual GNP share despite low per the debt problem in Other Africa is clear. The relative capita output; openness of Asian NIEs shows up in the size of trade flows compared with GNP or population. In 1987, total trade of the four NIEs had overtaken that of OPEC (1985 is used as the year of comparison in these tables since GNP figures for more recent years are too unreliable). The concentration of debt in Latin America is evident, with a debt/export ratio in 1985 of around 4, compared with around 2 for Other Africa and Other Asia and with about 0.6 for Asian NIEs.
- 7. The principal countries in the four non-oil developing country groups are examined in Table 2:
 - -- In the Asian NIEs, high GNP and extremely high trade flows per head Korea, still with notable in Hong Kong and Singapore. substantial debt, is some way behind Taiwan on these figures. running aggregate, these economies have been current-account surpluses in recent years, although these are almost entirely concentrated in Korea and Taiwan. In both these economies some adjustment has occurred following reductions in tariff levels and import restrictions, an appreciation of their currencies and sharp rises in nominal wages, but a sustained reduction in surpluses is not yet evident.
 - -- Latin America is obviously a debtor group. The economies are relatively closed, with low trade/GNP ratios -- total GNP is more than twice that of the Asian NIEs yet total trade flows are smaller. After a long period of import substitution policies, many of these countries have made announcements of policies intended to result in more trade-oriented economies -- the potential for increased trade growth if such policies are put into effect is apparent. The development of these economies will be strongly influenced by the way in which macroeconomic policy and policy towards inward investment evolve and the way in which the debt problem is handled.
 - -- In Other Africa, South Africa and Egypt are by far the most important single countries in terms of their trade and debt links with the rest of the world. Other countries are so small by

comparison that it is difficult to single out particular ones for special attention. As in Latin America, both debt and changes in domestic policy are important issues, though the fact that most African countries are so much less developed renders the issue vis-à-vis the OECD rather different. The relative poverty of sub-Saharan Africa (excluding South Africa) has also led to a different approach from OECD governments as regards the official debt issue.

- -- In Other Asia, China and India, though amongst the poorest in GNP per head, account for around two-thirds of total GNP. These two countries are relatively closed economies, however. Other countries are more comparable with the rest of the world as regards trade The second-tier of Asian NIEs could develop rapidly if the pattern of their neighbours is followed. But, more importantly, if China and India do follow the trend towards greater openness, the potential for increased trade flows is enormous. Such developments important for OECD countries, both giving potential will investment opportunities and developing new competitors in industrial markets.
- 8. The pattern of trade interdependence is illustrated in Table 3. The Soviet Union and Eastern Europe group trades mainly with non-OECD regions (most importantly with itself, since intra-group trade is included in the trade totals). Other Africa's exports almost all go to OECD countries and most of those to Europe. In general the influence of geographical proximity is seen to be strong for all the groups other than the Asian NIEs; in the latter case the importance of the United States as a market stands out strongly.
- The composition of trade is given in Table 4. The data there show that only OPEC and the Asian NIEs are strongly specialised in their trade; although many countries may be highly specialised commodity exporters, when grouped together this is less apparent. The Soviet and Eastern Europe group exports very little food and raw materials, but the other three groups are fairly well diversified (at this level of aggregation). The relatively high proportion taken by manufactures for all three of these groups is notable, as is the fact that energy is more important than either food or raw materials for Other Asia and Other Africa. Relatively low commodity prices may exaggerate the former, but with commodity prices still lower in 1988 than in 1985 and oil prices substantially lower, the share of manufactures now is probably even higher. Terms-of-trade changes between OECD and the non-OECD may in future owe as much to different relative prices within manufacturing (e.g. textiles versus cars) as they have in the past to the relative price of commodities traditionally defined. This observation makes the absence of any easily available direct information on prices of most non-OECD trade in manufactures (at the moment it is often proxied by the average OECD price for manufactures) even more awkward.
- 10. Debt data are analysed in some detail in Table 5. Though the major part of debt seems to be denominated in dollars, in some cases considerable amounts are denominated in other currencies. Allowing for the uncertainties attaching to the nature of some of the source material used, one surprising aspect is perhaps the importance of DM-denominated debt for the Other Asia group. The importance of the French Franc in Africa is not surprising. The tendency of Other Asia and Other Africa dobt to be fixed rate and that of

Latin America and Asian NIEs to be floating also fits with an a priori perception of the two groups as official and market borrowers respectively.

Modelling Considerations

- 11. The structural form of the non-OECD part of INTERLINK has not been changed by the regrouping. Currently, export revenue is determined by volume equations which link exports to (weighted) world imports, and price equations linked to oil, commodity and OECD average manufacturing prices. Because export prices for manufactured goods are proxied by average OECD prices, there is no role for relative price effects in the volume equations. Investment income is determined by an average interest rate (linked to OECD short-term rates) and estimates of net debt stocks. With transfers exogenous, import volume equations act so as to leave the current balance unchanged in the long run, except that shocks to the terms of trade may influence both the path to the long run and the long run itself.
- 12. Within this system improvements will be made to the modelling of the relationship between commodity prices and trade prices, and also in the modelling of investment income -- where debt service is a very important component. The consequences of different reaction functions in import determination in the context of the indebted countries may also be investigated -- does a model with target debt ratios look more plausible than one with a current-account target, for example? For the Asian NIEs, where financing constraints are generally not binding on imports, the inclusion of some domestic variables is envisaged.

Data Sources

- 13. The basic balance of payments data for the new groups, as in the past for the previous groups, comes from the IMF. The split of trade into prices and volumes was done on the basis of data in the World Bank "World Tables" publication (on tape) supplemented by information from the International Economic Analysis and Prospects division; information on population and GDP, which is shown in some of the tables, but not used in INTERLINK, also comes from the World Tables. The direction of trade matrices and commodity composition information come from the UN Statistical Service. Data on debt stocks come from the Development Co-operation Directorate of the OECD, as do estimates of the currency composition and the interest rate basis of debt. The currency and interest rate breakdowns have been put together on the basis of scanty information and are therefore only approximate; these data are not official OECD estimates.
- 14. Further information concerning the historical data on trade and the balance of payments for each of the six zones, which are also available on a number of ESD diskette data products, can be obtained on request from the Analytical Data Base Manager, Department of Economics and Statistics.

In tables 1 to 5, as memo items, comparative in the matter is given on the previous non-OECD groupings used. The mnemonics translate as follows:

LOP OPEC "low absorbers"

HOP OPEC "high absorbers"

NIC Newly Industrialising countries

A production of the state of th

00P Other Oil Producers

LMI Low and Middle Income countries

SOV USSR and Eastern European countries (excluding Yugoslavia)

see above, pages 2-3, for information on the composition of the new groups in terms of the previous groups.

Information for the tables has been collected from a number of sources, including the following:

Tables 1 to 4, 7: World Bank, IMF International Financial Statistics, OECD Development Cooperation Directorate, national sources and OECD estimates.

Tables 3 and 4: United Nations

Tables 5 and 6: OECD Development Cooperation Directorate

Table 1. Summary Information by Group 1985

| | Exports (a) | Imports (a) | Population | GNP ^(b) | GNP per head | Gross External |
|---------------|--------------|-------------|-------------|--------------------|-----------------|-------------------|
| | \$ bn | \$ on | million | \$ bn | \$ | Debt (c) \$ bn |
| 4 Asian NIEs | 128.5 | 117.9 | 68.4 | 182.1 | 2660.8 | 77.0 |
| Latin America | 97.3 | 73.8 | 360.1 | 514.0 | 1427.4 | 366.3 |
| Other Asia | 102.0 | 134.6 | 2224.4 | 640.0 | 287.7 | 209.9 |
| Other Africa | 59.7 | 62.1 | 392.6 | 184.2 | 469.2 | 127.4 |
| OPEC | 174.7 | 155.0 | 331.5 | 433.5 | 1307.7 | 169.0 |
| OECD | 1547.5 | 1574.8 | 808.0 | 8787.5 | 10876.1 | |
| total of | | | | | | |
| above | 2109.6 | 2118.0 | 4185.0 | 10741.3 | 2566.6 | 949.6 |
| memo items | | | | | | |
| NIC | 226.5 | 196.0 | 400.8 | 605.9 | 1511.9 | 336.6 |
| OOP | 70.2 | 61.8 | 192.4 | 278.5 | 1447.7 | 197.6 |
| LMI | 105.0 | 144.0 | 2475.5 | 678.8 | 274.2 | 269.6 |
| | <u></u> | | per cent | | | |
| | (d) | (đ) | * (d) | (d) | (e) | (d) |
| 4 Asian NIEs | 6.1 | 5.6 | 1.6 | 1.7 | 0/ 5 | 0 1 |
| Latin America | 4.6 | 3.5 | 8.6 | | 24.5 | 8.1 |
| Other Asia | 4.8 | 6.4 | | 4.8 | 13.1 | 38.6 |
| Other Africa | 2.8 | 2.9 | 53.2 9.4 | 6.0 1.7 | 2.6 | 22.1 |
| OPEC | 8.3 | 7.3 | 7.9 | 4.0 | 4.3 | 13.4 |
| OECD | 73.4 | 74.4 | 19.3 | 81.8 | 12.0 100.0 | 17.8 - |
| total of | | | | | | |
| above | 100.0 | 100.0 | 100.0 | 100.0 | 23.6 | 100.0 |

⁽a) goods and services
(b) factor cost (net indirect taxes were estimated in some cases)
(c) Including short term, long term, and use of IMF credit.
(d) as percent of World, excluding USSR and Eastern Europe (see note 2, p2).

⁽e) as percent of OECD level.

| | Exports | Imports | Populatio | n GNP | GNP per head | Gross External |
|---------------|---------|---------|-----------|-------|-----------------|-------------------|
| | \$ bn | \$ bn | million | \$ bn | \$ | Debt \$ bn |
| 4 Asian NIEs | | | | | | |
| Group total | 128.5 | 117.9 | 68.4 | 182.1 | 2660.8 | 77.0 |
| of which: | | | | | | |
| Taiwan | 33.3 | 25.0 | 19.4 | 60.3 | 3105.0 | 9.0 |
| Korea | 32.3 | 30.6 | 41.1 | 73.0 | 1777.2 | 56.6 |
| Hong Keng | 35.0 | 33.8 | 5.4 | 32.2 | 5946.7 | 7.4 |
| Singapore | 27.9 | 28.4 | 2.6 | 16.6 | 6506.1 | 4.0 |
| Latin America | | | | | | |
| Group Total | 97.3 | 73.8 | 360.1 | 514.0 | 1427.4 | 366.3 |
| of which: | | | | | | |
| Mexico | 27.4 | 18.3 | 78.8 | 151.0 | 1915.4 | 109.8 |
| Brazil | 27.7 | 16.9 | 135.6 | 194.9 | 1437.5 | 106.8 |
| Argentina | 10.2 | 5.9 | 30.5 | 53.0 | 1735.6 | 50.4 |
| Other Asia | | | | | | |
| Group total | 102.0 | 134.6 | 2224.4 | 640.0 | 287.7 | 209.9 |
| of which: | | | | | | |
| China | 28.2 | 40.8 | 1040.3 | 266.0 | 255.7 | 20.1 |
| India | 13.3 | 20.6 | 765.1 | 174.9 | 228.6 | 39.3 |
| Philippines | 7.6 | 6.0 | 54.7 | 29.2 | 533.2 | 28.6 |
| Thailund | 10.0 | 10.2 | 52.7 | 32.7 | 632.0 | 18.4 |
| Malaysia | 17.2 | 15.6 | 15.6 | 24.4 | 1567.6 | 20.8 |
| Other Africa | | | | | | |
| Group Total | 59.7 | 62.1 | 392.6 | 184.2 | 469.2 | 149.9 |
| of which: | | | | | | |
| South Africa | 18.5 | 13.7 | 32.4 | 47.8 | 1473.7 | 22.5 |
| Egypt | 10.3 | 12.3 | 48.5 | 47.3 | 975.1 | 32.0 |
| Tanzania | 0.4 | 1.1 | 22.2 | 5.6 | 249.8 | 3.6 |
| Kenya | 1.6 | 1.6 | 20.4 | 4.9 | 239.2 | 4.4 |
| Ivory Coast | 3.2 | 2.4 | 10.1 | 4.7 | 464.1 | 9.9 |

see footnotes to Table 1

Table 3(a) Direction of Trade: destination of exports, by group. 1985

| to: | USA | Japan | OECD Europe | OECD total | Non-OECD total | Total Exports ⁽¹ |
|-----------------|------|-------------|----------------|---------------|-------------------|--------------------------------|
| from: | | per | cent of to | | | \$ bn |
| 4 Asian NIEs | 37.2 | 10.7 | 13.3 | 66.7 | 33.3 | 108.6 |
| Latin America | 40.8 | 5.4 | 21.5 | 69.6 | 30.4 | 78.9 |
| Other Asia | 14.7 | 18.2 | 16.9 | 52.0 | 48.0 | 78.7 |
| Other Africa | 14.6 | 6.6 | 52.0 | 74.4 | 25.6 | 43.7 |
| OPEC | 11.4 | 20.4 0.9 | 32.3 25.1 | 65.4 27.5 | 34.6 72.5 | 162.5 173.3 |
| USSR & E Europe | 1.4 | 0.9 | 23.1 | 21.5 | 72.5 | 173.3 |
| selected countr | | | | | | |
| Mexico | 71.9 | 6.8 | 14.8 | 94.6 | 5.4 | 22.9 |
| Brazil | 27.0 | 6.6 | 30.3 | 66.3 | 33.7 | 25.6 |
| Korea | 37.1 | 15.6 | 14.8 | 73.1 | 26.9 | 26.4 |
| Taiwan | 49.1 | 11.5 | 9.8 | 76.3 | 23.7 58.1 | 30.5 25.1 |
| China | 8.6 | 22.2 | 9.5 26.0 | 41.9 64.1 | 35.9 | 9.2 |
| India | 22.9 | 12.9 | 20.0 | 04.1 | 33.9 | 9.2 |
| memo items | | | | | | |
| НОР | 19.3 | 14.5 | 36.5 | 71.8 | 28.2 | 88.6 |
| LOP | 2.7 | 26.8 | 27.6 | 58.3 | 41.7 | 73.9 |
| 00P | 39.2 | 10.2 | 20.8 | 71.8 | 28.2 | 53.9 |
| NIC | 31.1 | 9.5 | 20.5 | 65.3 | 34.7 | 188.0 |
| LMI | 18.5 | 12.1 | 22.5 | 54.7 | 45.3 | 78.7 |
| SOV | 1.2 | 0.9 | 24.8 | 24.8 | 72.9 | 162.6 |

⁽¹⁾ Balance of Payments basis

Table 3(b) Direction of Trade: source of imports, by group. 1985

| from: | USA | Japan | OECD Europe | OECD total | Non-OECD total | Total Imports |
|------------------|------|-------|----------------|---------------|-------------------|------------------|
| to: | | | per cen | t of tota | al imports | \$ bn |
| 4 Asian NIEs | 15.4 | 21.9 | 12.5 | 53.7 | 46.3 | 100.1 |
| Latin America | 28.9 | 8.2 | 16.5 | 55.9 | 44.1 | 54.0 |
| Other Asia | 11.8 | 19.8 | 21.3 | 57.1 | 42.9 | 114.3 |
| Other Africa | 10.4 | 7.1 | 53.6 | 73.3 | 26.7 | 48.1 |
| OPEC | 10.8 | 14.1 | 46.0 | 73.9 | 26.1 | 104.3 |
| USSR & E Europe | 2.4 | 2.1 | 20.4 | 26.4 | 73.6 | 161.5 |
| selected countri | ies | | | | | |
| Mexico | 73.8 | 5.7 | 14.1 | 95.9 | 4.1 | 13.2 |
| Brazil | 17.3 | 3.5 | 13.8 | 37.8 | 62.2 | 13.2 |
| Korea | 20.6 | 25.9 | 11.9 | 64.0 | 36.0 | 26.5 |
| [aiwan | 22.7 | 26.5 | 10.5 | 64.9 | 35.1 | 19.3 |
| China | 12.6 | 37.9 | 16.9 | 72.8 | 27.2 | 38.2 |
| India | 10.3 | 10.2 | 30.5 | 55.1 | 44.9 | 16.5 |
| nemo items | | | | | | |
| IOP | 9.9 | 11.9 | 48.1 | 73.6 | 26.4 | 60.1 |
| JOP | 11.8 | 16.4 | 43.7 | 74.3 | 25.7 | 44.2 |
| OP | 34.1 | 9.4 | 28.3 | 75.0 | 25.0 | 46.5 |
| IIC | 15.8 | 16.6 | 19.6 | 55.4 | 44.6 | 161.0 |
| MI | 11.3 | 16.2 | 24.8 | 55.7 | 44.3 | 120.3 |
| SOV | 2.1 | 2.2 | 18.2 | 24.0 | 76.0 | 151.9 |

⁽¹⁾ Balance of Payments basis

Table 4 Commodity Composition of Trade: exports and imports by group, 1985

| | | | | | |
|------------------|----------------------|--------------|---------------|-------------|--------------|
| Exports | | | | | |
| | Total(1) | Food | Raw Materials | Energy | Manufactures |
| | \$ bn | % | % | % | % |
| | | | | | |
| 4 Asian NIEs | 108.6 | 4.1 | 2.9 | 7.3 | 85.7 |
| Latin America | 78.9 | 28.5 | 11.9 | 27.4 | 32.2 |
| Other Asia | 78.7 | 16.0 | 17.3 | 21.5 | 45.2 |
| Other Africa | 43.7 | 24.8 | 18.6 | 26.1 | 30.4 |
| | 162.5 | 1.9 | 1.5 | 91.3 | 5.3 |
| OPEC | 173.3 | 5.1 | 4.6 | 29.8 | 60.4 |
| USSR & E Europe | 1/3.3 | ٦.١ | 4.0 | 29.0 | 00.4 |
| selected countri | | | | 5/ / | 21 2 |
| Mexico | 22.9 | 8.0 | 4.1 | 56.6 | 31.3 |
| Brazil | 25.6 | 31.2 | 17.6 | 4.7 | 46.5 |
| Korea | 26.4 | 4.2 | 1.0 | 3.0 | 91.8 |
| Taiwan | 30.5 | 5.2 | 1.9 | 0.9 | 91.9 |
| China | 25.1 | 14.5 | 10.2 | 25.9 | 49.4 |
| India | 9.2 | 22.5 | 12.8 | 9.8 | 54.9 |
| | | | | | |
| memo items | | | | 00.0 | |
| HOP | 88.6 | 3.2 | 2.7 | 89.9 | 4.2 |
| LOP | 73.9 | 0.5 | 0.2 | 92.8 | 6.4 |
| OOP | 53.9 | 9.4 | 16.4 | 45.2 | 29.0 |
| NIC | 188.0 | 13.3 | 8.2 | 6.3 | 72.1 |
| LMI | 78.7 | 26.9 | 12.6 | 24.6 | 35.9 |
| sov | 162.6 | 4.9 | 4.6 | 31.6 | 58.9 |
| Imports | | | | | |
| | Total ₍₁₎ | Food | Raw Materials | Energy | Manufactures |
| | \$ bn | % | % | % | % |
| | | | | | |
| 4 Asian NIEs | 100.1 | 6.2 | 8.6 | 23.3 | 61.9 |
| Latin America | 54.0 | 7.4 | 4.6 | 28.9 | 59.1 |
| Other Asia | 114.3 | 6.9 | 6.3 | 15.8 | 70.9 |
| Other Africa | 48.1 | 15.0 | 6.0 | 10.0 | 68.9 |
| OPEC | 104.3 | 13.7 | 3.7 | 5.3 | 77.3 |
| USSR & E Europe | 161.5 | 12.3 | 6.2 | 18.4 | 63.1 |
| 1 | | | | | |
| selected countri | | 4 4 | 8.1 | 3.8 | 81.5 |
| Mexico | 13.2 | 6.6 | | | |
| Brazil | 13.2 | 6.0 | 4.1 | 54.2 | 35.7 54.5 |
| Korea | 26.5 | 3.8 | 12.1 | 25.4 | 54.5 |
| Taivan | 19.3 | 6.7 | 13.5 | 25.3 | 54.5 |
| China | 38.2 | 4.4 | 8.0 | 0.4 | 87.2 |
| India | 16.5 | 3.1 | 7.4 | 30.4 | 59.0 |
| memo items | | | | | |
| HOP | 60.1 | 14.2 | 5.1 | 5.8 | 74.9 |
| | | 13.1 | | 4.8 | 79.9 |
| 1.0P | 44.7 | | | | |
| LOP | 44.2 46.5 | | 6.2 | 7.9 | /4.0 |
| OOP | 46.5 | 11.9 | | 7.9 25.7 | 74.0 60.9 |
| OOP NIC | 46.5 161.0 | 11.9 5.9 | 7.5 | 25.7 | 60.9 |
| OOP | 46.5 | 11.9 | 7.5 5.7 | | |

⁽¹⁾ Balance of Payments basis

Table 5 Debt by Currency and by Interest Rate basis (1986)

| | Total(*) Debt | | | | Curre | ency Denom | inatio | n | Intere | st Rate b |
|---------------|------------------|--------|------|-----|--------|------------|--------|---------|---------------|------------------|
| | | Dollar | s DM | Yen | Francs | Sterling | Other | Unknovn | Fixed rate | Floating rate |
| | \$ bn | * | * | % | X | * | * | X | % | * |
| 4 Asian NIEs | 79.7 | 70.7 | 15.2 | 1.5 | 2.2 | 0.5 | 4.5 | 5.3 | 34.8 | 65.2 |
| Latin America | 385.9 | 69.6 | 4.1 | 2.4 | 1.7 | 0.9 | 4.9 | 16.1 | 34.6 | 65.4 |
| Other Asia | 233.4 | 69.3 | 10.4 | 3.2 | 1.1 | 0.9 | 6.1 | 9.0 | 69.0 | 31.0 |
| Other Africa | 146.7 | 51.7 | 3.5 | 5.0 | 12.0 | 2.2 | 11.2 | 14.4 | 77.1 | 22.9 |
| HOP | 145.9 | 44.6 | 13.4 | 6.2 | 6.7 | 2.9 | 11.9 | 14.2 | 54.4 | 45.6 |
| LOP | 39.6 | 65.0 | 5.2 | 3.9 | 1.1 | 3.3 | 9.6 | 11.9 | 26.0 | 74.0 |
| memo items | | | | | | | | | | |
| NIC | 353.2 | 65.8 | 6.2 | 3.6 | 1.9 | 0.8 | 5.6 | 14.2 | 39.4 | 60.6 |
| 00P | 209.1 | 79.6 | 4.5 | 1.5 | 2.6 | 0.7 | 3.9 | 7.3 | 42.2 | 57.8 |
| LMI | 307.1 | 53.4 | 8.6 | 4.3 | 5.1 | 1.9 | 10.2 | 16.7 | 70.4 | 29.6 |

⁽a) Short and long term, including use of IMF credit.

⁽b) Floating rate: bank and other private claims. Fixed rate: other debt.

| | <u>19</u> | 82 | <u>19</u> | 86 |
|---------------|----------------------------|-------|----------------------------|-------|
| | Total ⁽ Debt | a) % | Total ⁽ Debt | a) % |
| 4 Asian NIEs | 58.6 | 100.0 | 19.7 | 100.0 |
| of which | | | | |
| Korea | 40.1 | 68.4 | 54.4 | 68.3 |
| Taiwan | 9.7 | 16.5 | 12.7 | 15.9 |
| Hong Kong | 5.5 | 9.3 | 8.3 | 10.4 |
| Singapore | 3.4 | 5.8 | 4.3 | 5.4 |
| Latin America | 310.7 | 100.0 | 385.9 | 100.0 |
| of which | | | | |
| Brazil | 94.9 | 30.6 | 115.4 | 29.9 |
| Mexico | 96.2 | 31.0 | 109.6 | 28.4 |
| Argentina | 42.3 | 13.6 | 55.0 | 14.3 |
| Chile | 17.9 | 5.8 | 23.6 | 6.1 |
| Other Asia | 148.0 | 100.0 | 233.4 | 100.0 |
| of which | | | | |
| India | 25.8 | 17.4 | 43.5 | 18.6 |
| Israel | 26.5 | 17.9 | 33.4 | 14.3 |
| Philippines | 25.5 | 17.2 | 27.2 | 11.7 |
| China | 8.6 | 5.8 | 26.6 | 11.4 |
| Other Africa | 96.9 | 100.0 | 146.7 | 100.0 |
| of which | | | | |
| Egypt | 26.5 | 27.4 | 38.4 | 26.2 |
| lorocco | 11.7 | 12.0 | 18.3 | 12.5 |
| Ivory Coast | 6.6 | 6.8 | 11.3 | 7.7 |
| Sudan | 6.4 | 6.6 | 8.6 | 5.9 |
| OPEC | 164.3 | 100.0 | 185.4 | 100.0 |
| Indonesia | 27.8 | 16.9 | 42.2 | 22.8 |
| Venezuela | 33.3 | 20.3 | 28.6 | 15.4 |
| Nigeria | 14.1 | 8.6 | 25.1 | 13.6 |
| Algeria | 19.3 | 11.7 | 21.9 | 11.8 |

⁽a) Short and long term, including use of IMF credit. For sources see above, page 7

Table 7
OTHER ASIA

| 10.0 | 4.9 | 7.9 | | | | | | | | | |
|-------|---|--|---|--|--|--|--|--|--|--|--|
| | | | 11.0 | 8.6 | 7.1 | 9.5 | 2.9 | 5.0 | 7.8 | 7.2 | 4.3 |
| 3.1 | 10.7 | 8.4 | 19.5 | 15.8 | -1.9 | -8.1 | -1.1 | 0.4 | -6.1 | -1.6 | 14.1 |
| 2.7 | 6.5 | 14.2 | 12.5 | 7.1 | 5.9 | 2.1 | 5.8 | 5.1 | 9.2 | -6.9 | 0.0 |
| 0.4 | 7.3 | 11.7 | 19.3 | 18.5 | 1.5 | -5.8 | -1.8 | -1.4 | -1.1 | 3.7 | 10. |
| | | | | | | | | | | | |
| 31312 | 36394 | 41783 | 55667 | 67854 | 70901 | 69411 | 70752 | 79097 | 78718 | 82206 | 10110 |
| 37375 | 42887 | 54538 | 73304 | 94986 | 101672 | 96172 | 99791 | 103404 | 114524 | 109908 | 12230 |
| -6063 | -6493 | -12754 | -17637 | -27132 | -30771 | -26761 | -29039 | -24307 | -35806 | -27702 | -2120 |
| -913 | -763 | -1181 | -1885 | 1516 | 1119 | 2318 | 1687 | 377 | 3194 | 5469 | 540 |
| -1606 | -1473 | -1881 | -2219 | -2273 | -2887 | -5051 | -6107 | -7597 | -8717 | -9905 | -1144 |
| 4014 | 5398 | 6097 | 8313 | 10513 | 10005 | 10960 | 11499 | 10821 | 9358 | 9401 | 953 |
| 3151 | 4237 | 4786 | 7434 | 7710 | 8129 | 7797 | 7129 | 7537 | 8987 | 9006 | 843 |
| 4645 | 7399 | 7821 | 11642 | 17468 | 16367 | 16024 | 14208 | 11138 | 12822 | 13971 | 1193 |
| -1418 | 906 | -4934 | -5995 | -9664 | -14404 | -10738 | -14831 | -13169 | -22984 | -13731 | -927 |
| | 0.4 31312 37375 -6063 -913 -1606 4014 3151 4645 | 0.4 7.3 31312 36394 37375 42887 -6063 -6493 -913 -763 -1606 -1473 4014 5398 3151 4237 4645 7399 | 0.4 7.3 11.7 31312 36394 41783 37375 42887 54538 -6063 -6493 -12754 -913 -763 -1181 -1606 -1473 -1881 4014 5398 6097 3151 4237 4786 4645 7399 7621 | 0.4 7.3 11.7 19.3 31312 36394 41783 55667 37375 42887 54538 73304 -6063 -6493 -12754 -17637 -913 -763 -1181 -1885 -1606 -1473 -1881 -2219 4014 5398 6097 8313 3151 4237 4786 7434 4645 7399 7821 11642 | 0.4 7.3 11.7 19.3 18.6 31312 36394 41783 55667 67854 37375 42887 54538 73304 94986 -6063 -6493 -12754 -17637 -27132 -913 -763 -1181 -1885 1518 -1606 -1473 -1881 -2219 -2273 4014 5398 6097 8313 10513 3151 4237 4786 7434 7710 4645 7399 7621 11642 17468 | 0.4 7.3 11.7 19.3 18.6 1.5 31312 36394 41783 55667 67854 70901 37375 42887 54538 73304 94986 101672 -6063 -6493 -12754 -17637 -27132 -30771 -913 -763 -1181 -1885 1518 1119 -1606 -1473 -1881 -2219 -2273 -2887 4014 5398 6097 8313 10513 10005 3151 4237 4786 7434 7710 8129 4645 7399 7621 11642 17468 16367 | 0.4 7.3 11.7 19.3 18.6 1.5 -5.8 31312 36394 41783 55667 67854 70901 69411 37375 42887 54538 73304 94986 101672 96172 -6063 -6493 -12754 -17637 -27132 -30771 -26761 -913 -763 -1181 -1885 1518 1119 2318 -1606 -1473 -1881 -2219 -2273 -2887 -5051 4014 5398 6097 8313 10513 10005 10960 3151 4237 4786 7434 7710 8129 7797 4645 7399 7621 11642 17468 16367 16024 | 0.4 7.3 11.7 19.3 18.6 1.5 -5.8 -1.8 31312 36394 41783 55667 67854 70901 69411 70752 37375 42887 54538 73304 94986 101672 96172 99791 -6063 -6493 -12754 -17637 -27132 -30771 -26761 -29039 -913 -763 -1181 -1885 1518 1119 2318 1687 -1606 -1473 -1881 -2219 -2273 -2887 -5051 -6107 4014 5398 6097 8313 10513 10005 10960 11499 3151 4237 4786 7434 7710 8129 7797 7129 4645 7399 7621 11642 17468 16367 16024 14208 | 0.4 7.3 11.7 19.3 18.6 1.5 -5.8 -1.8 -1.4 31312 36394 41783 55667 67854 70901 69411 70752 79097 37375 42887 54538 73304 94986 101672 96172 99791 103404 -6063 -6493 -12754 -17637 -27132 -30771 -26761 -29039 -24307 -913 -763 -1181 -1885 1518 1119 2318 1687 377 -1606 -1473 -1881 -2219 -2273 -2887 -5051 -6107 -7597 4014 5398 6097 8313 10513 10005 10960 11499 10821 3151 4237 4786 7434 7710 8129 7797 7129 7537 4645 7399 7621 11642 17468 16367 16024 14208 11138 | 0.4 7.3 11.7 19.3 18.6 1.5 -5.8 -1.8 -1.4 -1.1 31312 36394 41783 55667 67854 70901 69411 70752 79097 78718 37375 42887 54538 73304 94986 101672 96172 99791 103404 114524 -6063 -6493 -12754 -17637 -27132 -30771 -26761 -29039 -24307 -35806 -913 -763 -1181 -1885 1518 1119 2318 1687 377 3194 -1606 -1473 -1881 -2219 -2273 -2887 -5051 -6107 -7597 -8717 4014 5398 6097 8313 10513 10005 10960 11499 10821 9358 3151 4237 4786 7434 7710 8129 7797 7129 7537 8987 4645 7399 7621 11642 17468 16367 16024 14208 11138 12822 | 0.4 7.3 11.7 19.3 18.6 1.5 -5.8 -1.8 -1.4 -1.1 3.7 31312 36394 41783 55667 67854 70901 69411 70752 79097 78718 82206 37375 42887 54538 73304 94986 101672 96172 99791 103404 114524 109908 -6063 -6493 -12754 -17637 -27132 -30771 -26761 -29039 -24307 -35806 -27702 -913 -763 -1181 -1885 1518 1119 2318 1687 377 3194 5469 -1606 -1473 -1881 -2219 -2273 -2887 -5051 -6107 -7597 -8717 -9905 4014 5398 6097 8313 10513 10005 10960 11499 10821 9358 9401 3151 4237 4786 7434 7710 8129 7797 7129 7537 8987 9006 4645 7399 7621 11642 17468 16367 16024 14208 11138 12822 13971 |

| OTHER | AFRICA |
|-------|--------|
| | |

| PERCENTAGE CHANGES | 1976 | 1977 | 1976 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|-------------------------------|-------|-------|-------|-------|-------|--------|--------|-------|-------|-------|-------|--------|
| GOODS & SERVS. CREDITS VOLUME | -0.2 | 8.8 | 16.3 | 2.2 | 10.1 | -6.9 | 1.0 | 4.3 | 2.0 | 2.1 | 6.8 | 1.9 |
| | | 9.5 | -2.4 | 19.4 | 16.7 | -4.9 | -9.4 | -3.0 | -0.5 | -5.9 | 0.5 | 7.7 |
| GOODS & SERVS. CREDITS PRICE | 8.1 | | | | _ | | | | | | | |
| GOODS & SERVS. DEBITS VOLUME | -0.3 | 4.8 | 0.5 | 3.3 | 11.8 | 2.1 | -4.9 | -7.2 | 2.6 | -7.9 | 1.0 | -0.7 |
| GOODS & SERVS. DEBITS PRICE | 0.1 | 8.5 | 12.6 | 16.9 | 15.0 | 0.6 | -4.4 | -2.1 | -1.3 | -1.6 | 5.7 | 8.9 |
| values in us \$ | | | | | | | | | | | | |
| EXPORTS, BOP BASIS | 24783 | 29583 | 33548 | 43648 | 56607 | 48992 | 44232 | 44349 | 45300 | 43505 | 46522 | 49912 |
| IMPORTS, BOP BASIS | 30543 | 34295 | 38967 | 47424 | 61750 | 64038 | 57880 | 51867 | 53614 | 47802 | 49624 | 53297 |
| TRADE BALANCE | -5760 | -4713 | -5418 | -3776 | -5143 | -15047 | -13648 | -7518 | -8314 | -4297 | -3102 | -3385 |
| NON-FACTOR SERVICES , NET | -1007 | -1172 | -1095 | -3496 | -4265 | -4568 | -3801 | -2506 | -1684 | -1554 | -2804 | -1976 |
| INVESTMENT INCOME , NET | -2227 | -2637 | -3173 | -4246 | -5940 | -6959 | -7418 | -8245 | -8943 | -8842 | -9986 | -10998 |
| PRIVATE TRANSFERS | 438 | 516 | 762 | 3005 | 3903 | 4514 | 4214 | 4907 | 5417 | 5598 | 5790 | 6015 |
| OFFICIAL TRANSFERS | 1395 | 1645 | 2426 | 3173 | 3600 | 3808 | 3509 | 4504 | 4107 | 5141 | 5439 | 5706 |
| INVISIBLES BALANCE | -1401 | -1648 | -1080 | -1566 | -2702 | -3205 | -3496 | -1340 | -1103 | 343 | -1560 | -1252 |
| CURRENT BALANCE | -7161 | -6361 | -6198 | -5342 | -7845 | -18252 | -17144 | -8858 | -9416 | -3954 | -4663 | -4637 |

Table 7 (continued

| ٠. | rin | AMERI | C) |
|----|-----|-------|----|
| | | | |

| PERCENTAGE CHANGES | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 198 |
|-------------------------------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GOODS & SERVS. CREDITS VOLUME | 2.9 | 6.6 | 15.6 | 8.5 | 13.6 | 8.8 | -4.0 | 4.0 | 12.4 | -1.4 | -3.0 | 7. |
| SOODS & SERVS. CREDITS PRICE | 12.9 | 13.2 | -2.1 | 18.9 | 13.2 | -0.8 | -6.1 | -2.9 | -1.1 | -2.7 | -5.6 | 6. |
| GOODS & SERVS. DEBITS VOLUME | -1.3 | 0.3 | 4.7 | 10.7 | 11.4 | 7.1 | -17.2 | ~16.3 | 2.6 | -0.2 | 3.5 | 3. |
| GOODS & SERVS. DEBITS PRICE | 1.2 | 8.2 | 11.5 | 22.1 | 20.4 | 2.0 | -4.6 | -3.2 | -1.9 | -1.6 | -0.7 | 6. |
| ALUES IN US \$ | | | | | | | | | | | | |
| EXPORTS, BOP BASIS | 31407 | 38931 | 43130 | 55387 | 72532 | 77895 | 72171 | 74540 | 82980 | 78883 | 69599 | 7894 |
| IMPORTS, BOP BASIS | 36560 | 39761 | 45501 | 61432 | 82985 | 90224 | 69866 | 55152 | 55527 | 54013 | 54610 | 6077 |
| TRADE BALANCE | -5153 | -830 | -2371 | -6046 | -10453 | -12329 | 2305 | 19388 | 27453 | 24870 | 14989 | 1817 |
| NON-FACTOR SERVICES , NET | -353 | -194 | -609 | -1424 | -3571 | -4223 | -4159 | -2808 | -1138 | -1418 | -1797 | -94 |
| INVESTMENT INCOME , NET | -7024 | -8294 | -10189 | -13992 | -19359 | -29370 | -37968 | -:2780 | -35940 | -34252 | -31103 | -3015 |
| PRIVATE TRANSFERS | 575 | 573 | 713 | 868 | 1222 | 1330 | 1066 | 1133 | 1415 | 1651 | 2587 | 2736 |
| OFFICIAL TRANSFERS | 326 | 325 | 405 | 632 | 565 | 565 | 748 | 895 | 1093 | 1319 | 1172 | 1428 |
| INVISIBLES BALANCE | -6476 | -7590 | -9680 | -13916 | -21143 | -31696 | -40311 | -33560 | -34570 | -32700 | -29142 | -26940 |
| | | | | | 21.526 | 44005 | | -14172 | -7117 | | -14153 | -8770 |

4 ASIAN NIES

PERCENTAGE CHANGES

CURRENT BALANCE

| 18.3 3.4 10.8 8.3 | 18.9 5.9 17.1 11.6 | 3.9 20.8 9.3 21.3 | 11.5 12.1 6.8 18.7 | 10.2 4.8 10.0 1.2 | 6.4 -5.4 2.0 -5.2 | 11.9 -4.5 6.0 -2.4 | 13.1 0.6 12.0 -1.5 | 1.6 -2.1 -0.4 -2.3 | 16.2 2.7 12.1 -0.8 | 20.1 11.6 22.9 8.8 |
|----------------------------|---|--|---|---|---|---|---|--|--|---|
| 10.8 8.3 | 17.1 11.6 | 9.3 21.3 | 6.8 | 10.0 | 2.0 | 6.0 | 12.0 | -0.4 | 12.1 | 22.9 |
| 8.3 | 11.6 | 21.3 | | | _ | | | | | |
| | | | 18.7 | 1.2 | -5.2 | -2.4 | -1.5 | -2.3 | -0.8 | 8.8 |
| 36910 | 46417 | | | | | | | | | |
| 36910 | 46417 | | | | | | | | | |
| | | 59116 | 74720 | 84531 | 83076 | 90775 | 107507 | 108594 | 130154 | 175460 |
| 39079 | 50510 | 67321 | 85949 | 95505 | 91485 | 94276 | 103811 | 100132 | 111535 | 149812 |
| -2169 | -4093 | -8205 | -11229 | -10974 | -8409 | -3501 | 3696 | 8462 | 18619 | 25648 |
| 3494 | 3694 | 3563 | 4105 | 6830 | 8619 | 7261 | 4394 | 2311 | 3918 | 4912 |
| -469 | -592 | -868 | -2177 | -3331 | -3153 | -2456 | -1607 | -770 | -258 | 138 |
| 155 | 341 | 146 | 261 | 288 | 221 | 354 | 153 | 152 | 581 | 341 |
| 29 | 63 | 36 | 42 | 59 | 29 | 11 | 14 | 7 | 4 | 4 |
| 3189 | 3506 | 2877 | 2231 | 3846 | 5715 | 5171 | 2954 | 1700 | 4245 | 5395 |
| | 39079 -2169 3494 -489 155 29 | 39079 50510 -2169 -4093 3494 3694 -469 -592 155 341 29 63 | 39079 50510 67321 -2169 -4093 -8205 3494 3694 3563 -489 -592 -868 155 341 146 29 63 36 | 39079 50510 67321 85949 -2169 -4093 -8205 -11229 3494 3694 3563 4105 -489 -592 -868 -2177 155 341 146 261 29 63 36 42 | 39079 50510 67321 85949 95505 -2169 -4093 -8205 -11229 -10974 3494 3694 3563 4105 6830 -489 -592 -868 -2177 -3331 155 341 146 261 288 29 63 36 42 59 | 39079 50510 67321 85949 95505 91485 -2169 -4093 -8205 -11229 -10974 -8409 3494 3694 3563 4105 6830 8619 -489 -592 -868 -2177 -3331 -3153 155 341 146 261 288 221 29 63 36 42 59 29 | 39079 50510 67321 85949 95505 91485 94276 -2169 -4093 -8205 -11229 -10974 -8409 -3501 3494 3694 3563 4105 6830 8619 7261 -489 -592 -868 -2177 -3331 -3153 -2456 155 341 146 261 288 221 354 29 63 36 42 59 29 11 | 39079 50510 67321 85949 95505 91485 94276 103811 -2169 -4093 -8205 -11229 -10974 -8409 -3501 3696 3494 3694 3563 4105 6830 8619 7261 4394 -489 -592 -868 -2177 -3331 -3153 -2456 -1607 155 341 146 261 288 221 354 153 29 63 36 42 59 29 11 14 | 39079 50510 67321 85949 95505 91485 94276 103811 100132 -2169 -4093 -8205 -11229 -10974 -8409 -3501 3696 8462 3494 3694 3563 4105 6830 8619 7261 4394 2311 -489 -592 -868 -2177 -3331 -3153 -2456 -1607 -770 155 341 146 261 288 221 354 153 152 29 63 36 42 59 29 11 14 7 | 39079 50510 67321 85949 95505 91485 94276 103811 100132 111535 -2169 -4093 -8205 -11229 -10974 -8409 -3501 3696 8462 18619 3494 3694 3563 4105 6830 8619 7261 4394 2311 3918 -489 -592 -868 -2177 -3331 -3153 -2456 -1607 -770 -258 155 341 146 261 288 221 354 153 152 581 29 63 36 42 59 29 11 14 7 4 |

1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986

299 1020 -587 -5329 -8999 -7128 -2694 1670 6650 10163 22864 31043

1987

Table 7 (continued)

| o | P | Έ | c |
|---|---|---|---|
| • | ۰ | - | • |

| PERCENTAGE CHANGES | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1965 | 1986 | 1987 |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| GOODS & SERVS. CREDITS VOLUME | 9.7 | 2.4 | -2.9 | 9.1 | -11.6 | -14.0 | -14.8 | -4.5 | -0.1 | -6.2 | 13.0 | -1.8 |
| GOODS & SERVS. CREDITS PRICE | 8.2 | 9.9 | 1.3 | 32.6 | 56.2 | 9.0 | -6.5 | -12.3 | -2.0 | -3.9 | -41.7 | 21.7 |
| GOODS & SERVS. DEBITS VOLUME | 30.3 | 12.5 | 7.6 | -6.3 | 11.9 | 24.7 | 3.6 | -7.1 | -8.4 | -14.1 | -20.3 | -10.2 |
| GOODS & SERVS. DEBITS PRICE | -2.2 | 5.5 | 8.9 | 12.9 | 10.7 | -4.4 | -3.9 | -3.5 | -2.1 | -1.7 | 9.5 | 9.1 |
| VALUES IN US \$ | | | | | | | | | | | | |
| EXPORTS, BOP BASIS | 135401 | 151401 | 148193 | 217629 | 304600 | 282600 | 223300 | 185100 | 180900 | 162400 | 104400 | 126400 |
| IMPORTS, BOP BASIS | 75712 | 87537 | 103575 | 108034 | 131700 | 155700 | 156200 | 138500 | 123700 | 104401 | 92400 | 88300 |
| TRADE BALANCE | 59689 | 63864 | 44618 | 109594 | 172900 | 127100 | 67100 | 46600 | 57200 | 57999 | 12000 | 38100 |
| NON-FACTOR SERVICES , NET | -22547 | -28453 | -33264 | -36399 | -49700 | -60500 | -59700 | -54100 | -47600 | -39000 | -32700 | -33800 |
| INVESTMENT INCOME , NET | -721 | -1322 | -1094 | -3034 | -600 | 2799 | 3600 | 3800 | -500 | 100 | 5399 | 1100 |
| PRIVATE TRANSFERS | -3430 | -5392 | -7622 | -8864 | -12100 | -13600 | -16000 | -14800 | -13500 | -13100 | -11300 | -10600 |
| OFFICIAL TRANSFERS | -3700 | -4331 | -4818 | -3972 | -6600 | -6000 | -4500 | -3800 | -3000 | -2800 | -2500 | -2300 |
| INVISIBLES BALANCE | -30398 | -39498 | -46798 | -52269 | -69000 | -77301 | -76600 | -68900 | -64800 | -54800 | -41101 | -45600 |
| CURRENT BALANCE | 29291 | 24366 | -2180 | 57326 | 103900 | 49799 | -9500 | -22300 | -7600 | 3199 | -29101 | -7500 |
| | | | | | | | | | | | | |

| | 2,00 | ., | 2,02 | 2,00 | .,., | .,0, | 2,00 | 2,0, |
|---------------------------|-------|--------|-------|-------|-------|-------|-------|-------|
| ALUES IN US \$ | | | | | | | | |
| EXPORTS, BOP BASIS | 80500 | 83900 | 86800 | 86700 | 88900 | 84500 | 88900 | 98500 |
| IMPORTS, BOP BASIS | 83200 | 80200 | 74600 | 71900 | 73400 | 76400 | 76900 | 80500 |
| TRADE BALANCE | -2700 | 3700 | 12200 | 14800 | 15500 | 8100 | 12000 | 18000 |
| NON-FACTOR SERVICES , MET | 2300 | 2700 | 2900 | 2600 | 2600 | 2600 | 2600 | 2900 |
| INVESTMENT INCOME , NET | -6900 | -10100 | -9300 | -7600 | -7100 | -6400 | -6000 | -6600 |
| PRIVATE TRANSFERS | 3800 | 4100 | 3400 | 3100 | 3100 | 3200 | 3400 | 3100 |
| OFFICIAL TRANSFERS | 400 | 400 | 400 | 500 | 500 | 500 | 500 | 500 |
| INVISIBLES BALANCE | -400 | -2900 | -2600 | -1200 | -900 | -100 | 500 | -100 |
| CURRENT BALANCE | 3100 | 500 | 9600 | 13600 | 14600 | 8000 | 12500 | 17900 |

ECONOMICS AND STATISTICS DEPARTMENT WORKING PAPERS

**

DEPARTEMENT DES AFFAIRES ECONOMIQUES ET STATISTIQUES DOCUMENTS DE TRAVAIL

**

In April 1983, the Economics and Statistics Department initiated a new series of economic studies entitled ESD Working Papers.

The following titles have been circulated:

1. Use of Demand Elasticities in Estimating Energy Demand (out of print) Utilisation des Elasticités de la Demande dans l'Estimation de la Demande de l'Energie

Axel Mittelstadt

2. Capital, Energy and Labour Substitution: the supply block in OECD medium-term models Substitution du Capital, de l'Energie et du Travail : le bloc de l'offre dans les modèls à moyen terme de l'OCDE (épuisé)

Patrick Artus

3. Wage Formation in France: sectoral aspects (out of print)
Formation des Salaires en France: aspects sectoriels (épuisé)

Patrick Artus

4. Service Lives of Fixed Assets (out of print)
Durée de Vie Utile des Actifs Fixes

Derek Blades

5. Resource Prices and Macroeconomic Policies: Lessons from Two Oil Price Shocks Prix des Ressources Naturelles et Politique Macro-Economique: Les Enseignements de Deux Chocs Pétroliers (épuisé)

John Llewellyn

6. Output Responsiveness and Inflation: An Aggregate Study Souplesse de la Production et Inflation: Etude Globale

David T. Coe and Gerald Holtham

7. The Determinants of Exchange Rate Movements (out of print) Les Déterminants des Mouvements des Taux de Change (épuisé)

Graham Hacche

8. Simulated Macroeconomic Effects of a Large Fall in Oil Prices (out of print)
Simulation des Effets Macro-économiques d'une Forte Baisse des Prix Pétroliers

Flemming Larsen and John Llewellyn

9. Medium-Term Financial Strategy: The Co-ordination of Fiscal Monetary Policy (out of print)
Stratégie Financière à Moyen Terme : la Coordination des Politiques Monétaire et Budgétaire (épuisé)

Jean-Claude Chouraqui and Robert Price

10. Price Dynamics and Industrial Structure: A Theoretical and Econometric Analysis (out of print)

Dynamique des Prix et Structure Industrielle: Une analyse théorique économétrique (épuisé)

David Encaoua (with collaboration from Paul Geroski and Riel Miller

11. Evidence on Income Distribution by Governments (out of print) L'Action Exercée par l'Etat sur la Redistribution du Revenu

Peter Saunders

12. Labour Force Participation: An Analysis with Projections Taux d'Activité: Analyse et Projections

James H. Chan-Lee

- 13. The Demand for Money and Velocity in Major OECD Countries (out of print) La Demande de Monnaie et la Vitesse de Circulation dans les Grands Pays de l'OCDE
 - A. Blundell-Wignall, M. Rondoni and H. Ziegelschmidt
- 14. The Conduct of Monetary Policy in the Current Recovery
 La Conduite de la Politique Monétaire dans la Phase Actuelle de
 Reprise Economique

Paul Atkinson and Jean-Claude Chouraqui

15. Structural Budget Deficits and Fiscal Stance Déficits Budgétaires Structurels et Orientation de la Politique Budgétaire

Patrice Muller and Robert W.R. Price

- 16. Monetary Policy in the OECD Interlink Model La Politique Monétaire dans le Modèle Interlink
 - A. Blundell-Wignall, M. Rondoni, H. Ziegelschmidt and J. Morgan
- 17. Real Gross Product in OECD Countries and Associated Purchasing Power Parities (out of print)
 Produit Brut Réel et Parités de Pouvoir d'Achat dans les pays de l'OCDE (épuisé)

Peter Hill

18. The OECD Compatible Trade and Production Data Base (out of print)
Base de Données Compatibles sur le Commerce et la Production de l'OCDE

Derek Blades and Wendy Simpson

- 19. Nominal Wage Determination in Ten OECD Economies
 Détermination des Salaires Nominaux dans Dix Economies de l'OCDE
 - David T. Coe and Francesco Gagliardi
- 20. Profits and Rates of Return in OECD Countries Profits et Taux de Rendement dans les Pays Membres de l'OCDE

James H. Chan-Lee and Helen Sutch

21. Real Interest Rates and the Prospects for Durable Growth Taux d'Intérêt Réels et Perspectives de Croissance Durable

Paul Atkinson and Jean-Claude Chouraqui

22. Energy Prices: Trends and Prospects
Les Prix de l'Energie: Evolution et Perspectives

Axel Mittelstadt

23. Changes in the Composition of Output and Employment Changements dans la Composition de la Production et de l'Emploi

Axel Mittelstadt and Françoise Correia

- 24. Labour Market Flexibility and External Price Shocks Flexibilité du Marché du Travail et Chocs Extérieurs sur les Prix
 - F. Klau and A. Mittelstadt
- 25. Discrepancies Between Imports and Exports in OECD Foreign Trade Statistics (out of print) Ecart entre les Importations et les Exportations dans les Statistiques du Commerce Extérieur de l'OCDE

Derek Blades and Marina Ivanov

26. Aggregate Supply in Interlink: Model Specification and Empirical Results

John Helliwell, Peter Sturm, Peter Jarrett and Gérard Salou

27. Commodity Prices in Interlink

Gerry Holtham, Tapio Saavalainen, Paul Saunders and Helen Sutch

28. Exchange Rates and Real Long-Term Interest Rate Differentials: Evidence for Eighteen OECD Countries

David T. Coe and Stephen S. Golub

29. Method of Calculating Effective Exchange Rates and Indicators of Competitiveness

Martine Durand

30. Public Debt in a Medium-Term Context and its Implications for Fiscal Policy

Jean-Claude Chouraqui, Brian Jones and Robert Bruce Montador

31. The OECD Compatible Trade and Production Data Base 1970-1983

Anders Brodin and Derek Blades

32. The Formulation of Monetary Policy: A Reassessment in the Light of Recent Experience

Paul Atkinson and Jean-Claude Chouraqui

33. Mécanismes de Transmission et Effets Macro-Economiques de la Politique Monétaire en France : les Principaux Enseignements Econométriques

Marc-Olivier Strauss-Kahn

34. Pure Profit Rates and Tobin's q in Nine OECD Countries

James H. Chan-Lee

35. Wealth and Inflation Effects in the Aggregate Consumption Function
G.H. Holtham and H. Kato

36. The Government Household Transfer Data Base

Rita Varley

37. Internationalisation of Financial Markets: Some Implications for Macroeconomic Policy and for the Allocation of Capital

Mitsuhiro Fukao and Masaharu Hanazaki

38. Tracking the US External Deficit, 1980-1985: Experience with the OECD Interlink Model

Pete Richardson

39. Monetary Policy in the Second Half of the 1990s: How Much Room For Manoeuvre?

Kevin Clinton and Jean-Claude Chouraqui

- 40. Tax Reform in OECD Countries: Economic Rationale and Consequences Bob Hagemann, Brian Jones and Bruce Montador
- 41. A Revised Supply Block for the Major Seven Countries in Interlink

 Peter Jarrett and Raymond Torres
- 42. OECD Economic Activity and Non-Oil Commodity Prices: Reduced-Form Equations for INTERLINK

Gerald Holtham and Martine Durand

43. Import and Export Price Equations for Manufactures
Richard Herd

- 44. Price Determination in the Major Seven Country Models in INTERLINK
 Ulrich Stiehler
- 45. International Investment-Income Determination in INTERLINK: Models for 23 OECD Countries and Six Non-OECD Regions

David T. Coe, Richard Herd and Marie-Christine Bonnefous

- 46. Recent Developments in OECD's International Macroeconomic Model
 Pete Richardson
- 47. A Review of the Simulation Properties of OECD's INTERLINK Model
 Pete Richardson
- 48. The Medium-Term Macro-Economic Strategy Revisited

 Jean-Claude Chouraqui, Kevin Clinton and Robert Bruce Montador
- 49. Are Commodity Prices Leading Indicators of OECD Prices?

 Martine Durand, Sveinbjörn Blöndal

50. Private Consumption, Inflation and the "Debt Neutrality Hypothesis" The case of Eight OECD Countries

Giuseppe Nicoletti

51. The Effects of Monetary Policy on the Real Sector: An overview of Empirical Evidence for Selected OECD Economies

Jean-Claude Chouraqui, Michael Driscoll and Marc Olivier Strauss-Kahn

- 52. The So-Called "Non-Economic" Objectives of Agricultural Policy
 - L. Alan Winters
- 53. Alternative Solution Methods in Applied General Equilibrium Analysis

Richard G. Harris

- 54. Tests of Total Factor Productivity Measurement
 - A. Steven Englander
- 55. Quantifying the Economy-Wide Effects of Agricultural Policies: A General Equilibrium Approach

Jean-Marc Burniaux, François Delorme, Ian Lienert, John P. Martin and Peter Hoeller

- 56. On Aggregation Methods of Purchasing Power Parities
 - J.R. and M. Cuthbert
- 57. An International Sectoral Data Base for Thirteen OECD Countries
 - F.J.M. Meyer-zu-Schlochtern
- 58. Empirical Research on Trade Liberalisation with Imperfect Competition: A Survey
 - J. David Richardson
- 59. Eliminating the US Federal Budget Deficit by 1993: the Interaction of Monetary and Fiscal Policy
 - R. Herd and B. Ballis
- 60. Compatible Trade and Production Data Base: 1970-1985

Claude Berthet-Bondet, Derek Blades and Annie Pin

- 61. Ageing Populations: Implications for Public Finances
 Robert P. Hagemann, Giuseppe Nicoletti
- 62. The Economic Dynamics of an Ageing Population: the Case of Four OECD Economies
 - Alan J. Auerbach, Laurence J. Kotlikoff, Robert P. Hagemann, Giuseppe Nicoletti
- 63. Modelling Housing Investment for Seven Major OECD Countries
 Thomas Egebo and Ian Lienert