



**INDUSTRY
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**Later Stage Processing of International
Trade Data for SALTER**

by

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1 INTRODUCTION

This paper describes the final stages of preparing the *SALTER* international trade data. The final data gives exports fob and imports cif for each source region, destination region and commodity in the *SALTER* model. The *SALTER* regions and commodities are shown in Boxes 1 and 2.

Box 1: Regions in the *SALTER* model

- | | | |
|----|----------------------------|--|
| 1 | Australia | |
| 2 | New Zealand | |
| 3 | Canada | |
| 4 | United States | |
| 5 | Japan | |
| 6 | Republic of Korea | |
| 7 | European Community | (United Kingdom, France, Federal Republic of Germany, Italy, Belgium, Netherlands, Luxemburg, Denmark, Ireland, Greece, Spain, Portugal) |
| 8 | Indonesia | |
| 9 | Malaysia | |
| 10 | Philippines | |
| 11 | Singapore | |
| 12 | Thailand | |
| 13 | People's Republic of China | |
| 14 | Hong Kong | |
| 15 | Taiwan | |
| 16 | Rest of the world | |

The inputs into the procedures in this paper are:

- source, destination and commodity specific merchandise export and import data described in Hambley (1993) and hereafter referred to as the 'initial trade data'; and
- commodity specific data on trade in services from the *SALTER* input-output data contained in the TBPJ.HAR files referred to in Brown, Strzelecki and Watts (1993), and hereafter referred to as '*SALTER* input-output data'. This data is displayed in Table 1.

Box 2: Industry and commodity groupings

Agriculture

- 1 Paddy Rice
- 2 Wheat
- 3 Other grains
- 4 Non-grain crops
- 5 Wool
- 6 Other livestock products

Resources

- 7 Forestry
- 8 Fishing
- 9 Coal
- 10 Oil
- 11 Gas
- 12 Other minerals

Food

- 13 Processed rice
- 14 Meat products
- 15 Milk products
- 16 Other food products

Non-food manufacturing

- 17 Beverages and tobacco
- 18 Textiles
- 19 Wearing apparel
- 20 Leather products
- 21 Lumber products
- 22 Pulp, paper and printing
- 23 Petroleum and coal products
- 24 Chemical, rubber and plastic products
- 25 Non-metallic minerals
- 26 Primary iron and steel
- 27 Non-ferrous metal products
- 28 Fabricated metal products
- 29 Transport equipment
- 30 Other machinery and equipment
- 31 Other manufacturing

Services

- 32 Electricity, gas and water
- 33 Construction
- 34 Trade and transport
- 35 Other services (private)
- 36 Other services (government)
- 37 Other services (ownership of dwellings)

The formulation of the procedures documented in this paper was motivated by the need to adjust the initial trade data and the initial input-output data to be mutually consistent. This could be accomplished either by adjusting one of these data sets to be consistent with the other, or adjusting both data sets.

In principle it would be desirable to take the international trade data as fixed while adjusting the input-output data, since the international trade data is from well established sources and is already compiled for 1988, the desired reference year, whereas the input-output data is of variable quality, from a variety of sources and for a variety of years.

However, the international trade data is inadequate in two respects. Firstly, the raw data is known to imply unreasonable cif/fob ratios for many source, destination and commodity specific trade routes. The first task of the procedures in this paper is to adjust the international trade data to match independent estimates of source, destination and commodity specific cif/fob ratios. Secondly, the international trade data, while a reliable source for *merchandise*

trade, is patchy in its coverage of international trade in *services*. Input-output sources provide a more comprehensive picture of trade in each service type, but the input-output information is not broken down by source (for imports) or destination (for exports). The service trade totals from input-output sources are nevertheless used as a starting point for constructing services trade data by source and destination.

Table 1: **SALTER input-output data for trade in services¹** (1988 \$US million)

<i>Regions</i>	<i>Commodities</i>					
	<i>32 EGW</i>	<i>33 CON</i>	<i>34 T&T</i>	<i>35 OSP</i>	<i>36 OSG</i>	<i>37 OOD</i>
Exports						
AUS	21.50	30.80	8830.00	925.00	745.00	0.02
NZ	2.51	17.80	2290.00	979.00	282.00	3.49
CAN	1380.00	7.27	15000.00	4200.00	282.00	0.05
USA	829.00	81.10	65600.00	30800.00	2370.00	0.12
JAP	199.00	20.80	63600.00	14700.00	131.00	0.15
KOR	50.90	370.00	9680.00	1510.00	366.00	47.40
EEC	731.00	7820.00	90800.00	37600.00	5760.00	0.21
IND	0.34	0.88	1940.00	479.00	1.07	0.01
MAL	1.17	0.75	2130.00	164.00	3.69	0.01
PHI	0.15	137.00	2600.00	988.00	38.10	0.00
SIN	36.10	5.98	4980.00	524.00	55.50	0.01
THA	2.40	0.63	2650.00	374.00	32.00	0.00
CHM	0.66	1.72	56.00	418.00	3.65	0.01
HK	239.00	43.10	2570.00	1630.00	42.30	0.01
TAI	7.07	3.22	6550.00	1030.00	85.30	12.80
ROW	0.00	0.00	0.00	0.00	0.00	0.00
Imports						
AUS	15.60	81.80	2210.00	1620.00	614.00	0.15
NZ	7.37	19.80	669.00	895.00	963.00	17.00
CAN	129.00	1.53	2310.00	9110.00	616.00	2.78
USA	4830.00	12.00	13000.00	67400.00	18.30	1.49
JAP	31.08	5.81	37570.13	16809.80	120.04	0.98
KOR	6.17	2.77	2030.00	1520.00	487.00	30.40
EEC	1530.00	4960.00	33200.00	27900.00	1340.00	426.00
IND	0.20	0.26	908.00	1240.00	348.00	0.03
MAL	0.09	0.13	2.39	24.70	16.40	0.18
PHI	0.13	21.70	974.00	571.00	6.52	0.02
SIN	0.14	0.20	2.89	385.00	17.30	0.01
THA	60.30	0.11	423.00	531.00	23.80	0.03
CHM	69.30	1.75	15.10	427.00	2.53	0.22
HK	1.26	111.00	2310.00	1410.00	120.00	0.01
TAI	13.20	0.26	2330.00	2920.00	237.00	72.90
ROW	0.00	0.00	0.00	0.00	0.00	0.00

¹ This data was obtained from the TBPJ.HAR files, described in Brown, Strzelecki and Watts (1993).

Thus the final trade data is dependent on the input-output data, but the input-output data also needs to be reconciled with the international trade data from Brown, Strzelecki and Watts (1993). To break as far as possible the dependence between the two adjustment procedures and to avoid circularity, both the input-output and the international trade data have been reconciled to broad trade control totals obtained from balance of payments sources.

Thus the trade data has been reconciled to the following three sets of data (hereafter referred to as target data):

- balance of payments data on aggregate exports and imports and merchandise exports and imports by SALTER region;
- econometrically estimated source, destination and commodity specific cif to fob ratios, estimated by Gehlhar, Binkley and Hertel (1992), hereafter referred to as GBH; and
- a world freight ratio of 0.06 (expressed as a proportion of merchandise trade fob) calculated using IMF (1991b), Table v.

This paper proceeds as follows. Chapter 2 provides a descriptive overview of the data processing performed. Chapter 3 provides a formal algebraic description of the processing. Chapter 4 discusses the computer implementation. It provides a description of the programs which perform the trade data processing, the data files they require, and the stored input files and '*.BAT' files that have been created to automate the execution of these programs. Appendix A lists the final trade data.

2 OVERVIEW OF THE TRADE DATA PROCESSING

The processing of the trade data involves three major phases - generation of merchandise and services exports and imports targets from balance of payments data and a world freight ratio; generation of merchandise trade data; and generation of services trade data. Overviews of each of these three major phases of processing are provided below.

As noted in the introduction, there are three sets of target data: a world freight ratio; merchandise and total exports and imports by region; and source, destination and commodity specific cif/fob ratios. Plainly these target values derived from different sources will not necessarily be internally consistent, and so some values will need to be adjusted. The values selected for adjustment are:

- merchandise and total exports and imports for the rest of the world; and
- the source, destination and commodity specific cif/fob ratios, which were scaled 'uniformly', in a way to be defined precisely in Chapter 3.

Overview of preparation of target export and import totals

Total exports fob and imports cif for each region, and the share of merchandise to total trade for each region, were obtained from balance of payments data (Table 2). Note that world exports equal world imports, since the difference between world merchandise imports cif and world merchandise exports fob equals world trade in freight, which is included in exports of services but not in imports of services. Merchandise exports fob (imports cif) for each region are equal to the product of total exports (imports) for the region and the corresponding merchandise to total trade ratio. World freight can be calculated as the difference between world merchandise imports cif and world merchandise exports fob. However, the value for total world freight so obtained was not equal to 6 per cent of world merchandise trade fob, and so was inconsistent with the independent target for the world freight ratio. To achieve consistency, both merchandise and total exports and imports for the rest of the world were subsequently adjusted. This is described fully in Chapter 3.

Table 2: Target total trade and merchandise to total trade ratios

	<i>Total Exports (\$USm)</i>	<i>Total Imports (\$USm)</i>	<i>Merchandise to total trade ratios for:</i>	
			<i>Exports</i>	<i>Imports</i>
Australia	42248	47550	0.803	0.775
New Zealand	11899	11266	0.774	0.655
Canada	127792	124684	0.897	0.851
United States	431010	537900	0.777	0.835
Japan	292493	226805	0.881	0.722
Korea	69853	55251	0.861	0.876
EC total	1027453	1046092	0.790	0.809
Indonesia	20539	18395	0.934	0.750
Malaysia	23375	19824	0.893	0.775
Philippines	9620	9393	0.746	0.864
Singapore	47239	46254	0.804	0.872
Thailand	19978	20986	0.773	0.837
China	47473	55211	0.895	0.928
Hong Kong	32720	39089	0.840	0.882
Taiwan	66668	54210	0.843	0.782
Rest of world	749640 ^a	707090 ^a	0.746 ^a	0.950 ^a
World trade				
– total	3020000	3020000		
– merchandise	2660000			

^a The target values initially read in (see Appendix E, TARGET.STI) are immediately replaced by the values shown here using calculations described in Chapter 3 and Appendix C.

Sources: For all regions except Taiwan, Hong Kong and Rest of World, all four columns are calculated using IMF (1991c), merchandise exports and imports (fob) and service credits and debits from the balance of payments section, international transactions lines 77aad, 77abd, 77ahd and 77aid respectively; imports cif and fob from lines 71 and 71v respectively; and period average 1988 exchange rates from line rh. Hong Kong values of total trade are from the International Economic Databank at the Australian National University, and have been adjusted for re-exports as described in Hambley (1993). The Hong Kong ratios of merchandise to total trade are from World Bank (1990), Tables 5 and 10. Taiwan data are from Council for Economic Planning and Development (1990), Table 11-dl. World total exports are from IMF (1990), Table B-1 for merchandise and Table B-2 for services.

Overview of merchandise trade data processing

A set of cif to fob ratios by source, destination and commodity was produced using GBH. Since the regions and commodities in SALTER differ from those in GBH, concordances were established between source/destination pairs and commodities. These concordances are listed in Appendix B.

In the merchandise trade data (Hambley 1993), for some commodities there were cases where one trading partner reported non-zero trade while the other reported zero trade or, in the case of the rest of world, did not report. These inconsistencies were removed by using the non-zero

trade value and the cif/fob ratios determined above. If the non-zero value was for exports fob, then a non-zero value for imports was obtained by multiplying by the cif/fob ratio. Similarly, if the non-zero value was for imports cif, then a non-zero value for exports was obtained by dividing by the cif/fob ratio. This is described fully in Chapter 3 below.

The trade data so obtained contains zero intra-rest of world trade for all commodities. To rectify this, the intra-rest of world exports (imports) of a commodity is set equal to a share of total intra-rest of world exports (imports). The total used was the difference between the target total merchandise exports (imports) for the rest of world, derived in the first step of Chapter 3, and the exports (imports) between the rest of world and all other SALTER regions derived from the current data. The commodity specific shares are defined so that their value increases with the value of exports (imports) of the commodity between the rest of world and other SALTER regions, and decreases with the value of exports (imports) of the commodity among SALTER regions other than the rest of the world. The rationale for such a definition is as follows. If, for the commodity under consideration, there is much trade involving the rest of the world relative to trade in which the rest of the world does not participate, then it is assumed that the rest of world conducts much of the global trade in that commodity. Consequently it is assumed that intra-rest of world trade in the commodity is relatively large. The precise definition of the shares is given in Chapter 3.

With the trade data generated thus far, and the independently estimated cif to fob ratios, there are two ways of assigning an export (import) value for any source, destination and commodity. One could take the value from the exports (imports) array directly, or the value from the imports (exports) array deflated (inflated) by the corresponding cif to fob ratio. The maximum of each such pair of values was used, making the trade data consistent with the independent cif to fob ratios. The steps involved in picking maximum values are described fully in Chapter 3.

The use of the maximum value was motivated by a belief that underreporting was more likely than overreporting in the original trade data. Underreporting can occur because of the non-reporting of some trade flows for political reasons (as with Taiwan's trade) or for reasons of confidentiality (as with some categories of Australian exports). Both underreporting and overreporting can occur because of the way re-export trade through entrepot ports such as Singapore or Rotterdam is reported. If Malaysian goods are re-exported to the United States via Singapore, then Malaysia is likely to report exports to Singapore and Singapore is likely to report exports to the United States, but both Singapore and the United States are likely to report the imports as coming from Malaysia. Ideally, we would like to convert such indirect trade through entrepot ports back to direct trade between original sources and ultimate

destinations, as was done with Hong Kong's re-export trade (Hambley 1993), but no entrepot apart from Hong Kong reports re-export trade separately. The SALTER model therefore treats Singapore's re-exported goods as entering the Singapore economy and acquiring Singapore country of origin but from this perspective, in the above example, US imports from Malaysia are overstated while its imports from Singapore are understated.

For each source, destination and commodity, the value of freight (implicit in the difference between imports cif and exports fob) was then scaled so that the implied figure for total world freight was equal to that value calculated from the target balance of payments totals as the difference between world merchandise imports cif and exports fob. The scaling factors used for each source, destination and commodity were determined by a minimum distance procedure, described fully in Chapter 3.

A modified RAS procedure was then used to reconcile the fob valuation of merchandise trade to the target balance of payments merchandise exports totals for each region, and the cif valuation of merchandise trade to the target balance of payments merchandise imports totals for each region, while preserving the desired (rescaled) cif/fob ratios. The modified RAS procedure first scales the fob valuation of trade to achieve the export targets, then converts to cif using the desired cif/fob ratios, then scales this cif valuation of trade to achieve the import targets. Iteration occurs until convergence.

The modified RAS procedure does not attain the export targets exactly as it is more tightly constrained than a conventional RAS, attempting to produce a solution which satisfies a set of cif/fob ratios in addition to the usual two sets of totals. The discrepancy between the final exports array and the target merchandise exports for each source region is distributed across destinations and commodities in proportion to the value of freight used for trade between that source and destination in that commodity. This is described fully in Chapter 3.

Overview of services trade data processing

Services trade data is not available at the source, destination and commodity level, but only at the source, commodity level for exports, and the destination, commodity level for imports. Both these exports and imports arrays were obtained from the SALTER input-output database (Hambley 1993).

Exports of Trade and Transport (SALTER commodity 34) from input-output sources include both a non-margin component and a margin component. The latter shall be referred to as

'freight'. Imports of Trade and Transport do not include freight. The amount of freight in world exports of Trade and Transport must equal the difference between world merchandise imports cif and world merchandise exports fob. This amount, which can be calculated from Table 2, is subtracted from the SALTER input-output data values of exports of Trade and Transport, and from the balance of payments exports of services for each region. The proportions to be subtracted from each region's exports can be calculated from the information in Table 3.

The SALTER input-output data for exports and imports of services were then disaggregated across their missing dimension according to some shares. For all service commodities other than Electricity, Gas and Water (SALTER commodity 32, hereafter designated as EGW), the shares were calculated from exports and imports, respectively, of the final merchandise trade data aggregated across commodities. EGW was treated differently because by its physical nature, this commodity is only tradeable along certain routes, which are displayed in Table 4. This information on trade routes was taken from Hambley (1993), and reflects the patterns of trade revealed by UN trade data for the SITC commodity 'Electric current'. The same source also reports values for trade in EGW along these routes. It was assumed that while input-output sources should take precedence for determining the value of total

trade in EGW, as for trade in other services, the original trade data provided useful information about trade routes and the *proportions* of total trade occurring along those routes. So for EGW, the shares are calculated using the initial trade data, but attributing a zero share to prohibited routes. The calculations are described fully in Chapter 3.

Since there is no freight on services trade, ie. no distinction between valuations cif and fob, a single source, destination and commodity specific array of trade in services was formed by taking geometric means of corresponding values from the exports and imports arrays just derived where both values were positive, or the maximum where at least one value was zero.

Intra-rest of world trade in services was defined in the same way as intra-rest of world merchandise trade.

Table 3: Percentage of total world exports of freight supplied by each region (per cent)

Australia	2.08
New Zealand	0.68
Canada	3.59
United States	8.39
Japan	14.20
Korea	1.03
EC total	56.85
Indonesia	0.60
Malaysia	0.26
Philippines	1.47
Singapore	0.39
Thailand	0.08
China	1.34
Hong Kong	1.48
Taiwan	1.48
Rest of world	6.08
Total	100.00

Source: Calculated from IMF (1990), Tables C-3 and C-4.

The trade in services array was then reconciled to the target balance of payments imports of services, and target balance of payments exports of services less freight, using a standard RAS procedure.

Table 4: Permissible trade routes for Electricity, Gas and Water (denoted x)

<i>Source</i>	<i>Destination</i>															
	AUS	NZ	CAN	USA	JAP	KOR	EC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW
AUS	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
NZ	.	x	.	.	.	.	.	.	.	.	.	.	.	.	.	.
CAN	.	.	x	x	.	.	.	.	.	.	.	.	.	.	.	.
USA	.	.	x	x	.	.	.	.	.	.	.	.	.	.	.	.
JAP	.	.	.	.	x	.	.	.	.	.	.	.	.	.	.	.
KOR	.	.	.	.	.	x	.	.	.	.	.	.	.	.	.	.
EC	.	.	.	.	.	.	x	.	.	.	.	.	.	.	.	x
IND	.	.	.	.	.	.	.	x	.	.	.	.	.	.	.	.
MAL	.	.	.	.	.	.	.	.	x	.	.	.	.	.	.	.
PHI	.	.	.	.	.	.	.	.	.	x	.	.	.	.	.	.
SIN	.	.	.	.	.	.	.	.	.	.	x	x	.	.	.	.
THA	.	.	.	.	.	.	.	.	.	.	x	x	.	.	.	.
CHI	.	.	.	.	.	.	.	.	.	.	.	.	.	x	.	.
HK	.	.	.	.	.	.	.	.	.	.	.	.	x	.	.	.
TAI	.	.	.	.	.	.	.	.	.	.	.	.	.	.	x	.
ROW	.	.	.	.	.	.	x	.	.	.	.	.	.	.	.	x

Source: Hambley (1993)

3 A FORMAL DESCRIPTION OF THE TRADE DATA PROCESSING

The three phases of trade data processing, which are outlined in Chapter 2, are in this section specified algebraically. The algebra of this section is cross-referenced to the TABLO code in Appendix C as described below. The TABLO programming language is part of the GEMPACK suite of software programs used to implement the SALTER model (Codsì and Pearson 1988).

As an aid to understanding the TABLO implementation of these procedures, equations which specify a piece of processing undertaken by some segment of TABLO code are cross-referenced to statements in the TABLO code by being assigned a label as well as an equation number. A typical label could be '[step3xlg.fl]', where 'step3xlg.tib' is the segment of TABLO code in which the processing is performed, the statement performing the processing being labelled in the code with '!{fl}!'. Likewise, in the TABLO code which is displayed in Appendix C, TABLO statements are cross-referenced to the equations of this paper such as '!{eq 2}!', which refers to equation (1) in the text.

This section first describes the generation of merchandise and services exports and imports targets from balance of payments data, then the generation of merchandise trade data, and finally the generation of services trade data.

Determining merchandise to total trade ratios by region consistent with an overall cif/fob ratio

The first step in the preparation of SALTER trade data is to separate each of the regional target total exports and imports into merchandise and services targets. As a first pass, this can be done by applying merchandise/total trade ratios obtained from balance of payments data. However, the total freight value, equal to the difference between world merchandise imports cif and world merchandise exports fob, will not necessarily agree with an overall freight ratio obtained from other sources. To achieve agreement the merchandise/total trade ratios for rest of world imports and exports are adjusted as follows. Let $r^X(r^M)$ be the export (import) merchandise/trade ratio for source s (destination d). Let $X_s^{TT}(M_d^{TT})$ be target total exports (imports) for source s (destination d). Designate the rest of the world by R . Then an adjusted value of r_R^M, r_R^{M1} , is defined implicitly by the equation

$$\sum_{d \neq R} r_d^M M_d^{TT} + r_R^{M1} M_R^{TT} - \sum_s r_s^X X_s^{TT} = F^T \sum_s^1 r_s^X X_s^{TT} \quad (1)$$

[step 3 x 1g.f1]

where F^T is the target world freight ratio of 0.06 (see Chapter 1). Each side of this equation is equal to total world freight expressed as the difference between world merchandise imports cif and exports fob in the left hand side and the world freight ratio times world merchandise exports fob in the right hand side.

This produced a value of $r_R^{M1} > 1$. To overcome this difficulty, a bound on r_R^M , r_R^{MB} , is defined, and if $r_R^{M1} > r_R^{MB}$ an adjustment is made to r_R^X . This adjusted r_R^{X1} is defined by

$$\begin{aligned} & \sum_{d \neq R} r_d^M M_d^{TT} + r_R^{MB} M_R^{TT} - \sum_{s \neq R} r_s^X X_s^{TT} - r_R^{X1} X_R^{TT} \\ & = F^T \left(\sum_{s \neq R} r_s^X X_s^{TT} + r_R^{X1} X_R^{TT} \right) \end{aligned} \quad (2)$$

[step 3 x 1g.f2]

A value of 0.95 was assigned judgementally to r_R^{MB} .

Removing inconsistency in raw data

Denote the original merchandise exports fob and imports cif by X_{sdc}^0 and M_{sdc}^0 respectively, where the subscripts s, d and c denote source, destination and commodity respectively. Denote the target cif to fob ratios by R_{sdc}^0 . Now in the original trade data there were sources, destinations and commodities where

$$X_{sdc}^0 = 0 \text{ and } M_{sdc}^0 \neq 0 \quad \text{or} \quad X_{sdc}^0 \neq 0 \text{ and } M_{sdc}^0 = 0 \quad (3)$$

In particular, for $s = \text{"rest of world"}$, all X_{sdc}^0 were zero (since this data was unavailable) while some M_{sdc}^0 were non-zero, and likewise for $d = \text{"rest of world"}$, all M_{sdc}^0 were zero while some X_{sdc}^0 were non-zero.

The anomalies were corrected using the cif to fob ratios applied to the non-zero trade values to replace the zero values. New exports and imports were therefore defined by

$$\begin{aligned} X_{sdc}^1 &= X_{sdc}^0 & \text{if } X_{sdc}^0 \neq 0 & \text{or } M_{sdc}^0 = 0 \\ &= M_{sdc}^0 / R_{sdc}^0 & \text{if } X_{sdc}^0 = 0 & \text{and } M_{sdc}^0 \neq 0 \end{aligned} \quad (4)$$

and

[step 3 x 1g.f4]

$$\begin{aligned}
M_{sdc}^1 &= M_{sdc}^0 && \text{if } M_{sdc}^0 \neq 0 && \text{or } X_{sdc}^0 = 0 \\
&= X_{sdc}^0 R_{sdc}^0 && \text{if } M_{sdc}^0 = 0 && \text{and } X_{sdc}^0 \neq 0
\end{aligned} \tag{5}$$

[step 3 x 1g.f3]

Intra — rest of world trade

The same method for assigning values to intra-rest of world trade is used for both merchandise and services trade, though it is applied at different stages of the processing. This section specifies this method. Commodity subscripts range over either all merchandise or all service commodities, while target export and import totals are either merchandise trade or trade in services.

Since the rest of the world consists of many different countries, trade occurs from the rest of the world to itself. Since the raw trade data only contains imports by other regions from the rest of the world, and exports by other regions to the rest of the world, values for intra-rest of the world trade need to be inferred from the trade between the rest of the world, designated by R , and all other regions, designated by $\bar{R}$, as follows.

Trade in each pair of these composite regions was taken to be the product of a source-specific and a destination-specific component:

$$X_{sdc} = \alpha_{sc} \beta_{dc} \quad \text{for } s, d = R, \bar{R} \tag{6}$$

and

$$M_{sdc} = \gamma_{sc} \delta_{dc} \quad \text{for } s, d = R, \bar{R} \tag{7}$$

Using these relations intra-rest of world exports are:

$$\begin{aligned}
X_{RRc}^* &= \alpha_{Rc} \beta_{Rc} \\
&= \frac{\alpha_{Rc} \beta_{\bar{R}c} \alpha_{\bar{R}c} \beta_{Rc}}{\alpha_{\bar{R}c} \beta_{\bar{R}c}} \\
&= X_{R\bar{R}c} X_{\bar{R}Rc} / X_{\bar{R}\bar{R}c}
\end{aligned} \tag{8}$$

[step 3 x 1g.f5] [serv 2h.f5]

and similarly for imports:

$$M_{RRc}^* = M_{RRc} M_{RRc} / M_{RRc} \quad (9)$$

[step 3 x 1g.f7] [serv 2h.f7]

These values X_{RRc}^* and M_{RRc}^* were used to generate shares which were used to disaggregate across commodities a value of total intra-rest of world trade obtained as the difference of the target totals for the rest of world trade and the total trade of the rest of the world with SALTER regions. For each commodity, therefore, intra-rest of world exports and imports were defined by:

$$X_{RRc} = \left(X_R^T - \sum_i X_{RRi} \right) X_{RRc}^* / \sum_i X_{RRi}^* \quad (10)$$

[step 3 x 1g.f6] [serv 2h.f6]

$$M_{RRc} = \left(M_R^T - \sum_i M_{RRi} \right) M_{RRc}^* / \sum_i M_{RRi}^* \quad (11)$$

[step 3 x 1g.f8] [serv 2h.f8]

Reconciling trade data to estimated cif to fob ratios

The cif to fob ratios implied by X_{sdc}^1 and M_{sdc}^1 were not consistent with R_{sdc}^0 . It is required to define values X_{sdc}^2 and M_{sdc}^2 which are "close to" X_{sdc}^1 and M_{sdc}^1 , respectively, and also "close to" M_{sdc}^1 / R_{sdc}^0 and $R_{sdc}^0 X_{sdc}^1$, respectively. So X_{sdc}^2 and M_{sdc}^2 are defined as minimising:

$$\begin{aligned} & \Psi(X_{sdc}^2, X_{sdc}^1) + \Psi(M_{sdc}^2, M_{sdc}^1) \\ & + \Psi(X_{sdc}^2, M_{sdc}^1 / R_{sdc}^0) + \Psi(M_{sdc}^2, R_{sdc}^0 X_{sdc}^1) \end{aligned} \quad (12)$$

where Ψ is a measure of "closeness".

In choosing the measure of closeness Ψ , weight was given to the belief that under-reporting was more likely than over-reporting. Thus is for any positive A, B with $A > B$ it is required that:

$$\Psi(A, B) < \Psi(B, A) \quad (13)$$

A possible Ψ is:

$$\begin{aligned} \Psi(A, B) &= \epsilon |A - B| \quad \text{if } A \geq B \\ &= |A - B| \quad \text{if } A < B \end{aligned} \quad (14)$$

with $0 < \epsilon < 1$. Such a Ψ was used, and for any $0 < \epsilon < 1$ the solution to the minimisation problem is:

$$X_{sdc}^2 = \max(X_{sdc}^2, M_{sdc}^1 / R_{sdc}^0) \quad (15)$$

[step 3 x 2.f1]

$$M_{sdc}^2 = \max(M_{sdc}^2, X_{sdc}^1 / R_{sdc}^0) \quad (16)$$

[step 3 x 2.f2]

and, joyfully,

$$M_{sdc}^2 / X_{sdc}^2 = R_{sdc}^0 \quad (17)$$

Adjusting cif to fob ratios to be consistent with freight implied by target region-specific total exports and imports

Let X_s^T and M_d^T be the target region-specific merchandise export and import totals, respectively, obtained from balance of payments data. The total freight on international trade implied by these totals is $F^T = \sum_d M_d^T - \sum_s X_s^T$.

If F^2 is the total freight on international trade implied by M_{sdc}^2 and X_{sdc}^2 , ie

$$F^2 = \sum_{(s,d,c)} (M_{sdc}^2 - X_{sdc}^2) \quad (18)$$

[step 3 x 2.f3]

the new route-commodity specific freight values F_{sdc}^3 were defined by

$$F_{sdc}^3 = F^T (M_{sdc}^2 - X_{sdc}^2) / F^2, \quad (19)$$

[step 3 x 2.f4]

and M_{sdc}^3 and X_{sdc}^3 were chosen to be consistent with these and “close to” M_{sdc}^2 and X_{sdc}^2 respectively. So M_{sdc}^3 , X_{sdc}^3 minimise:

$$\Psi(X_{sdc}^3, X_{sdc}^2) + \Psi(M_{sdc}^3, M_{sdc}^2) \quad (20)$$

subject to

$$M_{sdc}^3 - X_{sdc}^3 = F_{sdc}^3 \quad (21)$$

If Ψ is chosen to be ¹

$$\Psi(A, B) = A(\ln(A / B) - 1) \quad (22)$$

then

$$\partial \Psi(A, B) / \partial A = \ln(A / B) \quad (23)$$

so the first order conditions for this constrained minimisation problem are:

$$\ln(X_{sdc}^3 / X_{sdc}^2) - \lambda_{sdc} = 0 \quad (24)$$

$$\ln(M_{sdc}^3 / M_{sdc}^2) + \lambda_{sdc} = 0 \quad (25)$$

where λ_{sdc} is a Lagrange multiplier. Then

$$X_{sdc}^3 = X_{sdc}^2 / \alpha_{sdc} \quad (26)$$

$$M_{sdc}^3 = M_{sdc}^2 \alpha_{sdc} \quad (27)$$

where $\alpha_{sdc} = e^{-\lambda_{sdc}}$. It is easy to solve for α_{sdc} so that $M_{sdc}^3 - X_{sdc}^3 = F_{sdc}^3$. While performing this solution, for convenience the sdc subscripts will be dropped and superscripts moved to subscripts to avoid confusion with exponents. Now

$$M_3 - X_3 = F_3 \quad (28)$$

so

$$\alpha M_2 - X_2 / \alpha = F_3 \quad (29)$$

$$M_2 \alpha^2 - F_3 \alpha - X_2 = 0 \quad (30)$$

Obviously only the positive solution is relevant so:

$$\alpha = \left[F_3 + \sqrt{(F_3)^2 + 4 M_2 X_2} \right] / (2 M_2) \quad (31)$$

[step 3 x 2.f5]

¹ This Ψ is the measure of closeness from which the RAS procedure is derived, where, for some table of values X_{ij} ,

$$\sum_i \sum_j \Psi(X_{ij}^{OLD}, X_{ij}^{NEW})$$

is minimised subject to X_{ij}^{NEW} satisfying target row and columns sums. Also X_{ij}^{OLD} and X_{ij}^{NEW} must have the same sign, an attribute not shared by a procedure implied by $\Psi(A, B) = (A - B)^2$, ie. minimising the sum of squares.

Reconciling trade data to balance of payments export and import totals

This step is accomplished by using a RAS type of procedure. Exports fob were scaled to X_s^T , imports cif to M_d^T , and we switched between fob and cif valuations between each scaling according to the cif to fob ratios implied by M_{sdc}^3 and X_{sdc}^3 , ie.

$$R_{sdc}^3 = M_{sdc}^3 / X_{sdc}^3 \quad (32)$$

[step 3 x 2.f6]

Expressed more formally, we find β_s, γ_d such that X_{sdc}^4 and M_{sdc}^4 defined by

$$X_{sdc}^4 = \beta_s \gamma_d X_{sdc}^3 \quad (33)$$

$$M_{sdc}^4 = \beta_s \gamma_d M_{sdc}^3 \quad (34)$$

satisfy

$$\sum_{d,c} X_{sdc}^4 = X_s^T \quad (35)$$

$$\sum_{s,c} X_{sdc}^4 = X_d^T \quad (36)$$

$$M_{sdc}^4 / X_{sdc}^4 = R_{sdc}^3 \quad (37)$$

The solution algorithm for equations (35) – (37) proceeds as follows.

Step 1: Given starting X_{sdc}, M_{sdc} (equal to X_{sdc}^3, M_{sdc}^3 on the first iteration), calculate

$$R_{sdc} = M_{sdc} / X_{sdc} \quad (38)$$

[step 3 x 2.f6]

Step 2: Redefine X_{sdc} by

$$X_{sdc} := X_{sdc} X_s^T / \sum_{(d',c')} X_{sd'c'} \quad (39)$$

[step 3 x 3.f1]

Step 3: Redefine M_{sdc} by

$$M_{sdc} := R_{sdc} X_{sdc} \quad (40)$$

[step 3 x 3.f2]

Step 4: Redefine M_{sdc} by

$$M_{sdc} := M_{sdc} M_d^T / \sum_{(s', c')} X_{s'dc'} \quad (41)$$

[step 3 x 3.f3]

Step 5: Redefine X_{sdc} by

$$X_{sdc} := M_{sdc} / R_{sdc} \quad (42)$$

[step 3 x 3.u1]

Steps 2 to 5 are repeated until X_{sdc} at the start of step 2 is not significantly different from X_{sdc} at the end of step 5, and M_{sdc} at the beginning of step 3 is not significantly different to M_{sdc} at the end of step 4.

Final post-RAS adjustment of merchandise trade

The RAS procedure just described did not produce agreement between the source specific exports calculated from X_{sdc} and the target export totals. This is due to this RAS procedure being more tightly constrained than a standard RAS, there being the constraints on cif/fob ratios as well as “row” and “column” targets. However, the discrepancies between target and actual export totals were not large and were removed in the following way.

Let X_{sdc}^* and M_{sdc} be the exports and imports, respectively, after the RAS. Then the discrepancies from the target export totals are:

$$X_s^D = X_s^T - \sum_{(d, c)} X_{sdc}^* \quad (43)$$

These are distributed across destination and commodity according to freight shares defined as follows. Define post-RAS freight values:

$$F_{sdc}^* = M_{sdc} - X_{sdc}^* \quad (44)$$

[step 3 x 4.f1]

and shares

$$S_{sdc}^F = F_{sdc}^* / \sum_{(d', c')} F_{sd'c'}^* \quad (45)$$

Then the final merchandise export are defined by:

$$X_{sdc} = X_{sdc}^* + X_s^D \cdot S_{sdc}^F \quad (46)$$

[step 3x 4.f2]

Disaggregating SALTER input-output data on trade in services and prohibiting infeasible patterns of trade

Let X_{sc}^{IO} , M_{dc}^{IO} designate the SALTER input-output data for services exports and imports, where s, d, c , designate the source, destination and service commodity respectively, with the values of X_{sc}^{IO} for $c = \text{"trade and transport"}$ net of freight, as described in Chapter 2. Let X_{sd}^M , M_{sd}^M be the total merchandise exports and imports from source s to destination d derived from the final merchandise trade data. Let X_{sd}^{EGW} and M_{sd}^{EGW} be the values of exports and imports, respectively, of EGW from the initial trade data. Define a map of permissible routes for each service commodity by:

$$\begin{aligned} R_{sdc} &= 1 && \text{if trade from source } s \text{ to destination } d \text{ in commodity } c \text{ is permitted} \\ &= 0 && \text{otherwise} \end{aligned} \quad (47)$$

Note that $R_{sdc} = 1$ for all s and d if $c \neq \text{EGW}$.

The disaggregations of X_{sc}^{IO} , M_{dc}^{IO} are defined by:

$$X_{sdc}^{DIO} = R_{sdc} X_{sd}^M X_{sc}^{IO} / \sum_{d'} X_{sd'}^M R_{sd'c} \quad (48)$$

[serv 2h.f1]

$$M_{sdc}^{DIO} = R_{sdc} M_{sd}^M M_{dc}^{IO} / \sum_{s'} M_{s'd}^M R_{sd'c} \quad (49)$$

[serv 2h.f2]

for all $c \neq \text{EGW}$.

For $c = \text{EGW}$ a value of trade in EGW, defined by:

$$\begin{aligned} T_{sd}^{EGW} &= \left(X_{sd}^{EGW} \cdot M_{sd}^{EGW} \right)^{0.5} && \text{if } X_{sd}^{EGW} \neq 0 \text{ and } M_{sd}^{EGW} \neq 0 \\ &= \max \left(X_{sd}^{EGW}, M_{sd}^{EGW} \right) && \text{otherwise} \end{aligned} \quad (50)$$

[serv 1a.f1, f2]

replaces X_{sd}^M and M_{sd}^M in equations (48) – (49) so the disaggregations of X_{sc}^{IO} and M_{dc}^{IO} for $c = \text{EGW}$ are defined by:

$$\begin{aligned} X_{sdc}^{DIO} &= R_{sdc} T_{sd}^{EGW} X_{sc}^{IO} / \sum_{d'} X_{sd'}^{EGW} R_{sd'c} && \text{if } \sum_d T_{sd}^{EGW} \neq 0 \\ &= 0 && \text{otherwise} \end{aligned} \quad (51)$$

[serv 1a.f3]

$$\begin{aligned}
M_{sdc}^{DIO} &= R_{sdc} M_{sd}^{EGW} M_{dc}^{IO} / \sum_s X_{s'd}^{EGW} R_{s'dc} \quad \text{if} \quad \sum_s T_{sd}^{EGW} \neq 0 \\
&= 0 \quad \text{otherwise}
\end{aligned} \tag{52}$$

[serv 1a.f4]

(R in the TABLO code is coefficient ROUTE_MAP).

The disaggregated exports and imports arrays are then used to produce a trade in services array S_{sdc} defined by:

$$\begin{aligned}
S_{sdc} &= \left(X_{sdc}^{DIO} M_{sdc}^{DIO} \right)^{0.5} \quad \text{if} \quad X_{sdc}^{DIO} \neq 0 \text{ and } M_{sdc}^{DIO} \neq 0 \\
&= \max \left(X_{sdc}^{DIO}, M_{sdc}^{DIO} \right) \quad \text{otherwise}
\end{aligned} \tag{53}$$

[serv 2h.f3, f4]

4 THE PROGRAMS WHICH PERFORM THE TRADE DATA PROCESSING

This section describes the suite of programs used to process the trade data. These programs consist of:

- two FORTRAN programs to assist in transferring the initial trade data, stored on text files whose format is described below, to header array files. They are listed in Appendix D. Their function and usage are described below.
- TABLO programs for data manipulation. These were listed in Appendix C. Their function and usage are described further below.

Besides the initial trade data, the TABLO programs require other input files containing target data and set information such as the number of regions and commodities and which commodities are merchandise or service commodities. These files are:

- PARS.DAT containing set information and created by MODHAR using input file PARS.STI
- ROUTE.DAT containing a map of permissible trade routes for services and created by MODHAR using the input file ROUTE.STI
- TARGET.DAT containing the target data (see Chapter 1) and created by MODHAR using the input file TARGET2.STI

The MODHAR input files are listed in Appendix E.

The TABLO programs require many intermediate work files. To remove the burden on the user of responding to the many prompts for file names made by the TABLO programs, the names of the files required by each TABLO program have been entered in 'stored input files'. These are text files with file name extensions of '.STI' which contain the keyboard input required by a program. The stored input files are listed in Appendix F.

All of the trade data procedure after the transfer of the initial trade data to a header array file has been automated by the production of a DOS BAT file. This file is:

```
up modhar <pars.sti >pars.out
up modhar <route.sti >route.out
up modhar <target2.sti >target.out
```

```
up modhar <mkt3x0.sti >mkt3x0.out
up step3x1g <step3x1.sti >step3x1.out
up modhar <mod3x1.sti >mod3x1.out
up step3x2 <step3x2.sti >step3x2.out
up step3x3 <step3x3.sti >step3x3.out
up step3x4 <step3x4.sti >step3x4.out
up serv1a <serv1.sti >serv1.out
up serv2h <serv2.sti >serv2.out
up serv3 <serv3.sti >serv3.out
up calcfrt <calcfrt.sti >calcfrt.out
```

As can be seen, at each step the screen output is stored on a file with extension '.out'. At the conclusion of the procedure these files can be examined for any error messages. If the 'grep' utility is available, the command

```
grep error *.out
```

will locate error messages.

FORTRAN programs to facilitate initial data transfer

There are two such programs, SPLIT and READ.

SPLIT takes as input a text file of all the initial trade data (assumed for the remainder of this discussion to be named TRADE.TXT) and for each region produces two text files, one for exports and one for imports. TRADE.TXT is produced by saving the final spreadsheet of Hambley (1993) as a text file, and then using a text editor to remove all commas and double quotation marks, and to replace tab characters by spaces. The resulting format of TRADE.TXT expected by the program SPLIT is shown in Appendix G, where the top portion of the edited TRADE.TXT is listed.

The program SPLIT proceeds as follows:

- a) The user is prompted for the number of regions, number of commodities and the name of the text file containing the initial trade data.
- b) The program opens the file COUNTRY.TXT which contains a list of (up to) three character identifiers for each region, in the order in which they occur in the trade data input file. These region identifiers are the same as those used in Hambley

(1993). To illustrate the remainder of the processing, assume that the first region identifier is FOO.

- c) The program scans TRADE.TXT until it finds 'FOO' at the beginning of a record (case does not matter). The format of TRADE.TXT should be such that there are two records before the export data for region FOO.
- d) The program expects to find one record for each commodity, each record containing as many values as there are regions, the values being the exports to each destination region. The first 6 characters of each record are ignored, this being assumed to be a commodity identifier. The numbers are separated by spaces.
- e) The data is written to a file called EFOO.TXT, one record for each commodity.
- f) Steps (c), (d) and (e) are executed once for each region.
- g) Steps (c)-(f) are repeated for imports.

It is anticipated that SPLIT could be altered on future application to suit input files with a slightly different format.

The program READ reads the files produced by SPLIT and produces a header array file containing headers of source, destination, commodity specific exports and imports. The program proceeds as follows:

- a) The user is prompted for the number of regions, number of commodities, the name of the file containing the three character region identifiers (like the file COUNTRY.TXT used by SPLIT) and the name of the output file (assumed by the stored input file MKT3X0.STI of Appendix F, and for the remainder of this discussion, to be TRADE0.DAT).
- b) The program reads a region identifier from COUNTRY.TXT and (assuming the region identifier to be FOO for the sake of illustration) reads the imports for region FOO from file IFOO.TXT, and the exports for region FOO from file EFOO.TXT. If either file is not present, values of zeros are assigned.
- c) After reading the text files of imports and exports for each region and compiling the arrays of imports and exports, these are written to the header array file TRADE0.DAT.

Note that the number of regions specified for program SPLIT was 15, one less than the number of SALTER regions, which is the number specified for READ. The reason for this is

that for the initial trade data 'rest of world' was a non-reporter, so only 15 regions' exports and imports were present on the file TRADE.TXT.

It is imperative when using the program SPLIT that the order of the regions proceeding across a record of TRADE.TXT is the same as the ordering of the SALTER regions. But the ordering of regions proceeding down the file can differ from the SALTER ordering. If this is the case in future applications of these programs, the versions of the file COUNTRY.TXT used with SPLIT and READ will contain the same three character identifiers, but in different orders. This however was not necessary when producing the current SALTER trade database, and the file COUNTRY.TXT is

AUS
NZ
CAN
USA
JAP
KOR
EC
INN
MLY
PHI
SIN
THA
CHM
HK
OAN
ROW

TABLO programs to perform data manipulation

The TABLO programs listed in Appendix C are described in this section by associating them with the phases of the processing that they perform. Following is a list of the TABLO programs and the sections of this paper describing the processing performed.

- STEP3X1G:** Implements equations (4)-(5) and (8)-(11) for merchandise trade, as well as equations (1)-(2).
- STEP3X2:** Implements equations (15)-(16), (18)-(19) and (31)-(32).
- STEP3X3:** Implements equations (39)-(42).
- STEP3X4:** Implements equations (44) and (46).

-
- SERV1A:** Implements equations (50)-(52) for EGW for those trade routes for which some data is present in the initial trade data.
- SERV2H:** Subtracts each region's freight exports from the SALTER input-output data values of exports of Trade and Transport, and from the balance of payments exports of services for each region (see Chapter 2). Then implements equations (48)-(49) and (53) for commodities other than EGW and those trade routes for EGW not present in the initial trade data, calculates the target totals for the RAS to be performed in SERV3, and then implements equations (8)-(11) for services trade.
- SERV3:** Reconciles the trade in services array to the target balance of payments imports of services, and target balance of payments exports of services less freight, using a standard RAS procedure (see Chapter 2).
- CALCFRT:** Calculates freight array and allocation of exports of freight to each region, and writes final trade data file. Totals calculated from the final trade data array are also written to the output file, to permit agreement with the targets to be verified.

APPENDIX A: FINAL TRADE DATA

The final trade data produced by the procedures described in this paper are presented in this appendix.

Table A1 gives the final import flows by source, destination and commodity. The data in this table correspond to the data written to TABLO header "imp" by the TABLO program CALCFRT.TIB listed in Appendix C.

Table A2 gives the final non-margins export flows by source, destination and commodity, ie. in this table the exports of the Salter commodity 34 Trade and Transport do not include margins exports. The data in this table correspond to the data written to TABLO header "exp" by the TABLO program CALCFRT.TIB listed in Appendix C.

Table A3 shows how much of world freight is supplied by each region, thus giving each region's margins exports of Trade and Transport. The data in this table correspond to the data written to TABLO header "emrg" by the TABLO program CALCFRT.TIB listed in Appendix C.

Table A4 shows world freight reallocated by source, destination and commodity being shipped. The grand total of the flows in this table equals the grand total of the flows in Table A3. Further, each element in this table equals the difference between the exports fob and corresponding imports cif elements in Tables A1 and A2. The data in Table A4 correspond to the data written to TABLO header "frt" by the TABLO program CALCFRT.TIB listed in Appendix C.

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = Aus

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	40	10	0	0	24	0	0	0	0	358	0	18	0	77	525
2 WHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
3 GRO	0	998	70	130	5	2	10	0	1	0	2	1	114	2	742	24	2,101
4 NGC	5	32,551	1,815	88,587	2,872	947	28,550	35,298	43,758	13,003	42,411	8,378	17,598	1,185	949	127,488	443,390
5 WOL	0	88,127	0	1,135	0	0	2,934	0	0	0	0	0	308	0	0	1,477	71,882
6 OLP	3,903	108,048	9,870	8,747	277	38	23,214	3	43	42	1,008	1,298	4,187	200	2,298	1,487	184,348
7 FOR	0	1,177	139	54	1	1	782	1	88	17	140	0	0	0	0	143	2,522
8 FSH	88	48,139	2,400	3,855	2,884	3,399	7,304	4,099	11,248	2,283	11,727	20,994	179	827	1,081	1,477	119,352
9 COL	0	2,880	1,407	112	918	0	1,920	0	0	0	8	0	0	8	0	87	7,118
10 OIL	0	43,135	0	32	0	0	1	178,855	132,345	0	3,828	0	8,113	0	0	404,803	788,709
11 GAS	0	288	12	770	8	8	164	2,358	0	0	7	0	0	0	14	48	3,844
12 OMN	5,308	908	81,007	38,258	20,738	908	29,380	3,311	98	1,799	1,282	10,531	15,571	7,179	102	208,551	422,889
13 PCR	0	0	19	1,470	10	0	148	0	0	0	58	8,814	82	0	21	1,038	11,859
14 MET	18	17,398	4,405	3,139	45	3	3,524	24	70	3	245	22	108	845	8	1,845	31,897
15 MIL	0	31,818	1,585	1,843	5	0	29,885	0	8	0	2	0	0	0	0	11,130	78,353
16 OFF	150	107,789	45,575	97,038	23,548	25,048	171,456	8,052	70,571	8,029	84,794	87,904	29,273	13,090	22,634	250,128	1,025,073
17 BAT	27	18,204	1,182	80,770	2,759	2,707	154,403	183	97	120	899	2,093	408	135	92	23,840	287,830
18 TEX	249	139,085	28,345	148,284	185,240	154,983	212,488	28,283	21,283	8,847	8,342	51,322	198,800	84,549	174,584	217,130	1,635,820
19 WAP	52	11,748	518	21,287	7,250	48,157	47,701	3,802	1,258	8,188	2,988	13,874	232,930	88,848	58,085	88,850	591,273
20 LEA	30	52,383	802	7,401	5,077	79,985	74,920	5,582	5,402	5,788	9,472	23,581	80,833	15,788	47,840	88,184	483,031
21 LUM	30	129,393	108,521	171,833	8,087	2,319	123,131	18,848	98,182	24,453	38,230	11,841	18,209	3,870	51,789	50,837	853,831
22 PPP	340	225,388	188,937	381,483	108,538	25,751	428,111	7,984	4,341	719	48,798	1,847	8,280	50,748	13,042	345,784	1,794,188
23 P&C	1,250	28,428	283	148,280	3,904	951	25,882	5,888	0	1,588	248,210	384	2,379	287	8,095	378,838	852,158
24 CRP	825	150,484	110,712	1,308,011	548,903	135,474	1,388,748	15,805	32,889	19,520	128,800	48,029	88,357	50,128	232,629	470,244	4,701,734
25 NMM	140	15,004	3,418	79,258	87,350	17,828	272,929	12,772	5,140	4,035	4,883	19,195	31,218	3,085	39,407	81,242	858,880
26 I&S	32	31,827	7,504	35,718	307,930	41,084	114,209	232	1,258	5,888	8,987	2,185	3,541	22	12,431	115,581	888,398
27 NFM	2,914	88,788	7,857	59,557	94,741	1,984	74,081	323	20,183	238	5,298	2,124	1,870	8,495	27,532	114,989	488,739
28 FMP	143	77,389	13,907	155,912	175,558	55,238	215,183	509	7,205	2,359	21,011	9,997	24,293	33,515	120,975	97,907	1,010,809
29 TRN	4,334	19,189	77,950	1,801,048	2,149,105	45,818	747,089	217	7,135	451	33,739	2,738	10,782	8,443	104,828	198,128	5,008,899
30 OME	8,097	225,781	144,348	3,364,529	3,028,388	270,003	2,584,487	4,059	51,982	10,841	453,292	29,551	73,948	219,292	541,819	817,158	11,835,110
31 OMF	182,881	54,844	25,308	1,088,530	199,010	80,890	831,884	4,283	45,453	10,758	14,835	18,371	73,282	47,489	122,811	275,552	2,833,417
32 EGW	25,984	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,984
33 CON	0	4,949	219	18,957	1,873	5,802	108,773	35	255	278	1,972	341	274	2,473	1,119	39,893	185,011
34 T&T	0	220,829	41,888	2,259,448	395,898	141,825	592,133	8,389	83,820	2,883	277,845	113,185	55,889	37,815	215,415	1,073,215	5,497,448
35 OSP	0	183,458	23,454	1,489,534	198,180	52,122	1,080,148	3,883	18,779	3,289	82,133	37,293	19,073	45,174	89,325	789,248	4,052,880
38 OSG	0	54,002	3,733	251,025	11,532	15,785	255,284	108	1,548	399	18,448	8,709	1,093	5,242	15,798	298,717	937,430
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	214,058	2,150,037	913,224	12,827,687	7,548,188	1,208,814	9,398,498	348,180	642,210	131,320	1,528,819	529,137	894,785	704,338	1,905,059	8,508,888	47,548,897

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = NZ

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	43	0	0	39	0	0	0	0	0	0	0	37	0	0	0	0	118
2 WHT	23,233	0	0	0	0	0	2	0	0	0	0	0	0	0	0	51	23,288
3 GRO	2,804	0	4	2,744	0	0	7	0	0	0	0	0	27	0	0	76	5,482
4 NGC	29,288	0	475	25,817	2,551	134	5,257	7,288	8,278	5,237	4,133	825	5,580	1,001	205	41,077	135,100
5 WOL	387	0	0	0	0	0	1,374	0	0	0	0	0	391	0	0	1,030	3,182
6 OLP	25,087	0	2,029	8,044	50	4	3,288	2	0	15	549	411	745	29	28	17,057	55,318
7 FOR	805	0	1,775	880	0	0	59	152	304	78	114	14	28	0	0	1,027	5,218
8 FSH	1,274	0	142	79	7,422	243	109	0	532	8	544	1,281	208	122	0	401	12,345
9 COL	331	0	8	28	0	0	441	0	0	0	0	0	0	0	0	0	909
10 OIL	80,204	0	0	0	0	0	209	15,457	0	0	0	0	8,087	0	0	181,150	285,107
11 GAS	43	0	0	35	0	0	28	0	0	0	0	0	0	0	0	7	114
12 OMN	13,552	37	15,385	12,103	374	27	4,080	120	3	88	887	1,770	2,088	785	235	27,981	79,237
13 PCR	4,278	0	0	998	0	0	2	0	0	0	11	1,587	45	0	0	73	8,998
14 MET	8,149	0	2,054	708	4	0	98	0	0	0	4	0	47	20	0	979	10,058
15 MIL	1,588	0	0	343	0	0	1,577	0	28	0	0	349	0	0	0	192	4,055
16 OFP	113,898	0	12,574	19,018	8,257	1,004	23,527	513	12,424	2,079	19,025	9,154	2,887	853	744	33,901	257,457
17 B&T	29,412	0	110	7,886	125	10	28,875	0	0	112	198	140	84	115	0	4,920	89,747
18 TEX	80,880	32	13,893	35,289	37,011	24,985	50,259	3,838	3,528	418	1,781	5,032	25,531	24,204	28,277	38,980	355,505
19 WAP	12,453	2	50	705	847	1,348	2,087	300	51	437	270	313	2,083	5,475	1,947	5,000	33,177
20 LEA	11,748	48	180	1,877	823	8,953	7,379	242	234	123	432	1,125	8,024	1,833	18,032	11,189	87,840
21 LUM	21,317	0	7,894	9,585	3,398	453	12,071	888	3,807	2,118	3,817	1,104	5,200	495	8,277	4,174	82,357
22 PPP	85,072	0	10,789	47,389	25,080	2,518	82,585	1,059	1,024	27	4,324	229	380	8,284	1,829	25,985	298,523
23 P&C	49,452	0	108	28,358	1,845	1,383	2,555	0	887	0	8,834	0	8,020	33	0	32,558	129,591
24 CRP	241,880	10	25,850	228,289	98,488	14,598	291,404	850	3,414	1,358	18,195	2,990	7,408	4,888	22,522	108,882	1,088,783
25 NMM	27,100	0	2,843	15,025	11,285	2,021	38,750	457	1,007	371	1,109	2,259	3,588	458	3,839	10,293	119,985
26 I&S	57,745	9	8,701	4,907	91,114	18,859	31,594	0	53	818	1,118	33	313	49	1,394	19,174	233,881
27 NFM	209,839	0	11,728	7,488	4,305	828	8,090	894	1,041	0	57	13	43	138	14,131	8,112	284,274
28 FMP	87,745	2	2,818	23,587	19,929	8,850	34,889	27	318	211	2,298	1,198	2,585	3,428	22,001	15,178	205,089
29 TRN	188,135	18	3,149	188,304	378,880	39,478	120,031	24	584	27	5,400	15	180	229	14,738	18,823	953,589
30 OME	380,485	139	31,283	818,935	491,880	39,303	424,405	120	5,258	950	71,928	1,213	7,878	37,079	87,429	121,114	2,307,402
31 OMF	138,771	0	1,335	33,783	22,874	15,504	33,159	482	848	1,581	1,583	1,855	10,859	13,770	23,842	10,300	310,087
32 EGW	0	8,752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,752
33 CON	4,555	0	48	3,029	345	1,253	21,381	4	23	42	287	38	38	498	209	9,084	40,840
34 T&T	383,874	0	10,195	451,789	91,232	34,238	130,288	825	8,337	455	48,882	13,478	10,109	8,484	44,957	308,132	1,519,013
35 OSP	167,877	0	7,700	398,295	81,597	18,985	314,559	838	2,247	781	18,897	5,989	3,748	13,742	25,143	408,528	1,445,314
38 OSG	158,102	0	2,087	114,183	8,044	8,880	127,748	31	349	155	8,315	1,817	382	2,889	7,499	440,831	874,850
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2,578,523	7,048	172,777	2,278,875	1,348,881	239,445	1,900,109	33,781	50,153	17,225	218,557	54,248	114,091	128,278	323,878	1,904,058	11,288,000

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = CAN

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	12,752	2	4	17	0	0	0	0	563	0	0	0	370	13,707
2 WHT	0	0	0	1,638	0	0	0	0	0	0	0	0	0	0	0	0	1,638
3 GRO	20	8	0	77,140	0	8	409	0	0	0	0	0	0	9	0	382	77,974
4 NGC	18,590	26,082	2	1,537,367	18,805	1,818	108,134	57,531	43,229	8,578	24,928	9,954	49,482	4,592	4,394	713,791	2,825,082
5 WOL	2,957	4,742	0	712	0	0	1,195	0	0	0	0	0	28	0	0	757	10,392
6 OLP	591	13,891	0	289,553	337	129	22,893	90	0	137	2,435	71	3,687	404	272	18,989	363,057
7 FOR	7	0	0	195,348	0	0	389	5	38	49	0	0	0	23	28	1,285	197,148
8 FSH	1,114	5,000	5	234,911	8,001	3,639	20,089	1,415	574	1,721	5,058	8,248	28,932	7,909	4,925	78,771	408,209
9 COL	0	0	0	919,134	0	0	83	0	0	0	0	0	0	0	0	975	920,172
10 OIL	0	0	0	82,208	0	0	1,221,385	0	0	0	0	0	0	0	0	1,037,281	2,340,954
11 GAS	0	0	0	90,295	0	27	287	0	0	0	0	0	0	0	405	0	91,014
12 OMN	42,432	0	57	608,198	5,870	110	97,990	17	0	1,319	190	4,133	15,525	1,897	818	388,387	1,144,878
13 PCR	194	0	0	34,939	0	0	331	0	0	0	88	9,491	97	13	0	3,198	48,329
14 MET	103,150	100,307	0	298,458	885	0	13,259	919	0	8	0	159	100	182	0	35,218	552,823
15 MIL	942	9,989	0	14,981	0	0	55,720	0	0	2	0	18	0	0	0	21,984	103,598
16 OFP	127,035	4,235	0	1,171,984	37,747	24,984	264,459	3,092	33,023	25,091	2,928	97,843	38,987	11,718	13,878	328,172	2,174,733
17 B&T	14,295	518	0	85,909	2,187	138	287,805	50	10	227	179	140	595	578	33	41,232	413,893
18 TEX	8,848	2,874	24	1,047,988	83,847	140,987	287,804	10,053	10,597	2,433	8,950	13,783	134,948	44,287	90,772	280,282	2,133,945
19 WAP	1,375	82	7	55,294	10,737	91,799	63,317	22,248	8,758	14,928	33,215	7,912	50,870	288,389	84,088	79,953	770,948
20 LEA	3,710	3,432	131	142,455	9,894	239,108	253,892	1,263	1,704	9,971	207	15,190	114,738	28,978	108,510	198,954	1,125,724
21 LUM	558	1,131	3	1,128,101	9,849	4,790	148,591	43,871	7,840	11,787	8,948	7,488	10,100	5,758	98,353	99,891	1,580,832
22 PPP	1,905	1,340	0	2,483,583	43,572	8,049	283,925	31	299	92	1,876	330	4,193	14,888	11,311	159,782	3,024,857
23 P&C	8	0	0	581,948	2,375	9,513	282,319	0	0	0	0	0	0	0	0	320,410	1,158,570
24 CRP	38,198	7,131	21	8,881,728	301,838	100,195	1,188,895	3,208	8,257	2,988	14,783	9,703	84,109	29,200	214,101	475,417	9,139,540
25 NMM	3,003	98	0	982,711	98,397	17,062	279,701	3,688	1,838	883	489	2,073	18,372	4,289	38,879	98,774	1,519,998
26 I&S	7,772	8,027	0	1,219,817	229,495	78,184	583,229	0	1,787	201	435	5,082	3,039	263	21,531	834,905	2,803,587
27 NFM	157,180	2,899	1	1,324,402	58,988	4,018	138,151	2,987	3,535	0	2,398	173	7,970	2,457	3,171	373,508	2,077,573
28 FMP	9,027	7,744	277	3,240,743	125,485	100,792	354,848	281	2,188	580	8,859	1,401	32,389	29,182	209,943	352,418	4,473,934
29 TRN	8,890	1,819	3	22,777,030	2,418,738	178,158	1,887,027	39	888	370	8,988	88,240	2,709	893	115,520	483,198	27,758,078
30 OME	32,203	5,208	1,052	23,908,740	3,544,363	851,434	2,998,487	917	105,782	40,181	313,075	30,371	111,285	237,057	710,080	2,135,722	34,821,914
31 OMF	24,291	188	82	1,100,092	211,280	117,585	207,028	384	5,881	9,883	10,523	14,957	142,342	101,094	187,017	101,828	2,233,929
32 EGW	0	0	0	417,749	0	0	0	0	0	0	0	0	0	0	0	0	417,749
33 CON	51	25	0	8,184	75	448	8,989	1	5	13	33	12	11	138	56	313	14,352
34 T&T	23,902	7,410	0	5,395,321	118,529	71,345	249,118	820	7,588	784	30,155	27,097	8,891	13,898	71,235	381,283	6,384,882
35 OSP	18,794	12,881	0	8,105,270	134,739	80,849	1,030,208	1,088	4,808	2,272	20,804	20,822	11,243	37,996	88,228	1,417,408	10,948,408
36 OSG	4,388	1,772	0	585,580	3,318	7,788	104,922	13	180	118	1,745	1,589	273	1,885	5,103	95,957	814,545
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	653,015	228,182	1,883	88,785,984	7,482,748	1,912,484	12,214,021	153,989	247,780	134,578	494,457	384,120	852,853	843,180	2,008,429	10,328,742	124,884,001

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = USA

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	31	0	1,155	0	20	0	87	0	0	0	0	484	0	0	110	7,334	9,201
2 WHT	0	0	85,917	0	0	0	113	0	0	0	0	0	0	0	0	0	86,030
3 GRO	53	0	99,428	0	17	53	1,947	0	0	0	0	44	9	7	0	56,055	157,811
4 NGC	21,108	89,880	389,320	2,893	39,820	15,147	525,841	821,325	227,787	89,475	250,837	187,353	84,319	9,230	29,413	5,528,331	6,271,881
5 WOL	233,455	55,487	882	0	0	0	11,840	0	0	0	0	0	0	0	0	19,588	321,011
6 DLP	5,111	53,784	814,431	75	3,308	1,054	181,888	5,823	338	2,344	3,319	22,798	95,134	4,178	8,358	408,129	1,407,847
7 FOR	89	34	73,045	0	101	0	8,802	33	858	248	41	39	25	15	1,843	4,889	87,638
8 FSH	125,423	184,880	1,093,438	2	128,993	171,038	145,585	24,829	10,540	84,117	59,588	115,904	379,581	21,385	195,805	1,998,847	4,897,325
9 COL	58,128	0	123,598	0	75,110	0	33,705	0	0	0	0	0	1,889	3	0	56,755	349,185
10 OIL	287,108	0	3,505,814	0	10,895	0	1,899,882	1,354,517	139,570	0	14,791	7,413	489,174	0	0	19,704,010	27,183,152
11 GAS	4,234	0	3,193,143	0	471	321	8,531	8,284	0	2,434	0	89,380	348	8	1,189	332,580	3,838,808
12 OMN	231,388	841	773,875	38,039	174,817	18,984	1,905,732	1,445	989	7,378	8,831	188,318	109,819	137,741	10,031	3,887,114	7,451,128
13 PCR	0	0	109	0	31	18	1,073	22	8	10	23	48,303	39	18	1,872	7,803	59,228
14 MET	784,852	590,009	800,285	3	3,010	822	338,478	1,313	0	318	795	572	597	3,088	1,128	578,572	2,912,588
15 MIL	14,502	52,185	19,232	0	188	8	178,780	22	0	0	18	271	84	12	0	125,383	388,830
16 OFF	83,972	18,982	954,782	119	218,209	180,877	1,080,843	80,528	204,533	423,884	51,948	808,288	178,430	81,558	245,951	2,717,558	7,057,048
17 B&T	80,490	4,089	554,277	103	43,387	18,231	2,301,389	7,077	127	4,175	8,788	7,980	15,510	3,285	5,788	830,178	3,880,811
18 TEX	15,383	10,331	430,351	813	878,887	818,127	1,542,028	88,282	30,870	41,884	9,431	123,150	738,078	172,008	481,582	1,452,873	6,407,888
19 WAP	18,288	7,482	185,353	72	280,350	2,580,783	1,345,224	424,099	328,138	721,024	803,254	305,485	2,384,508	3,559,210	2,787,880	4,929,973	20,848,880
20 LEA	13,338	9,123	252,379	808	50,245	4,035,743	1,781,100	29,735	8,350	115,872	8,059	231,139	1,019,727	317,239	2,028,849	2,485,522	12,383,125
21 LUM	5,559	15,938	4,958,340	197	248,987	112,027	1,189,805	395,758	59,150	190,713	95,517	154,983	142,588	48,882	1,759,390	1,322,820	10,877,050
22 PPP	18,183	13,320	9,270,055	83	521,844	108,127	1,230,453	2,383	7,810	5,043	48,199	5,300	47,941	139,848	107,843	1,789,857	13,314,251
23 P&C	39,393	1,923	1,533,343	2	37,895	34,458	1,951,304	237,028	3,588	983	221,800	49,878	88,335	13	4,881	8,059,009	12,241,809
24 CRP	198,925	177,877	5,307,248	7,989	3,718,532	818,227	9,070,982	38,018	228,701	47,314	278,873	125,955	801,888	219,177	2,827,579	4,402,319	27,881,181
25 NMM	18,910	9,432	777,375	123	953,050	188,780	1,844,018	4,973	17,822	12,980	8,880	29,818	174,815	48,004	575,480	880,539	5,498,388
26 I&S	148,278	38,880	1,987,470	80	2,882,833	782,882	2,894,885	75,582	14,448	18,981	55,837	105,884	88,289	1,139	178,235	2,815,494	12,042,438
27 NFM	722,118	7,738	4,380,885	18	437,814	38,021	1,224,828	38,491	41,530	339	97,432	12,888	75,189	14,478	28,819	3,889,200	10,987,888
28 FMP	31,750	19,223	2,782,587	795	1,871,528	914,048	1,783,980	12,189	25,110	12,085	75,842	35,822	377,183	218,810	1,882,505	2,112,101	11,973,174
29 TRN	238,050	28,053	29,138,020	1,211	30,883,030	4,154,752	12,849,150	1,571	22,213	2,885	148,088	18,720	27,182	22,709	803,388	5,772,544	83,785,555
30 OME	253,808	51,470	12,223,520	73,142	47,147,870	8,032,844	23,980,010	11,530	2,325,858	878,882	7,932,831	1,081,834	1,877,528	3,191,920	10,448,180	17,223,530	138,510,034
31 OMF	287,981	3,873	393,077	2,238	2,998,720	1,859,858	3,385,551	24,709	81,270	132,974	188,970	432,799	1,988,850	1,112,978	2,282,863	1,994,888	18,908,074
32 EGW	0	0	1,252,488	0	0	0	0	0	0	0	0	0	0	0	0	0	1,252,488
33 CON	574	299	1,744	0	1,887	10,732	83,887	28	128	483	1,337	270	238	2,817	1,410	7,433	112,830
34 T&T	253,373	82,543	2,088,245	0	2,470,271	1,820,850	2,818,023	31,848	198,904	27,837	1,185,219	554,715	208,852	285,104	1,879,833	7,855,190	21,099,407
35 OSP	230,138	182,485	3,074,130	0	3,285,828	1,584,848	13,405,300	48,507	138,841	90,885	915,842	485,813	272,818	845,918	1,850,547	39,742,480	88,134,058
36 OSG	3,441	1,454	13,253	0	5,178	13,001	87,435	38	347	298	4,988	2,388	423	2,859	8,885	11,035	154,759
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4,401,399	1,848,873	82,098,841	128,859	98,758,383	27,828,028	80,803,155	3,723,564	4,081,801	2,893,301	12,448,441	4,987,109	11,182,591	10,419,987	30,148,484	142,748,878	537,900,058

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = JAP

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	12	12	0	0	0	3	0	0	0	0	0	0	0	0	27
2 WHT	154,910	0	258,521	541,887	0	8	0	0	0	0	0	0	0	0	0	0	953,305
3 GRO	114,391	53	107,772	2,028,514	0	138	12,508	1,318	0	287	0	1,452	227,737	0	8	144,044	2,838,228
4 NGC	141,071	173,885	519,753	2,874,813	179	303,482	132,424	232,890	150,748	418,982	133,022	838,340	973,845	1,887	200,479	1,488,940	8,178,410
5 WOL	881,888	83,895	828	222	0	3,528	52,200	0	919	0	0	0	337	0	3,720	11,598	1,018,833
6 OLP	123,481	48,541	32,720	877,155	309	21,519	94,944	11,082	1,859	2,817	17,202	14,525	402,373	5,790	138,793	227,501	1,818,397
7 FOR	53	48,385	200,552	1,822,018	0	1,328	4,828	1,648	1,312,790	9,830	2,424	5,792	70,075	55	8,406	858,741	3,944,522
8 FSH	224,913	209,181	374,289	1,885,591	810	1,101,398	285,929	419,912	52,087	228,351	124,593	511,023	598,587	91,059	841,232	1,885,825	8,815,517
9 COL	1,934,505	18,584	1,183,315	747,785	0	144	527	18,544	0	0	25	0	215,884	0	37	588,328	4,711,435
10 OIL	31,294	0	20,487	0	0	85	0	2,211,424	393,054	0	0	0	1,770,259	0	0	11,494,830	15,921,413
11 GAS	151,321	0	0	179,893	0	107	881	2,443,923	800,888	0	0	0	0	0	25	2,420,584	5,897,003
12 OMN	1,875,525	28,374	759,701	872,258	3,775	79,292	884,541	537,382	89,922	487,329	3,782	239,159	289,220	104,317	38,299	3,719,890	9,589,737
13 PCR	83	0	0	218	0	0	0	0	0	0	0	3,798	119	0	0	3	4,201
14 MET	839,808	138,935	144,817	1,497,728	1	82,283	538,888	44	1,755	22	485	188,887	75,727	4,323	824,148	131,847	4,044,878
15 MIL	79,187	100,212	8,344	22,828	0	19	178,538	77	0	0	8,780	0	0	0	0	48,871	440,458
16 OFP	331,305	79,715	311,854	953,251	345	437,348	388,147	42,848	117,798	41,047	57,407	304,732	774,358	15,319	891,455	724,795	5,271,521
17 B&T	41,514	1,728	39,884	913,925	78	19,141	485,254	3,395	1,078	2,547	38,842	8,221	27,191	2,032	7,855	84,173	1,838,855
18 TEX	44,310	2,280	4,822	317,398	3,640	484,811	700,418	82,240	41,831	8,133	17,505	44,572	1,069,429	28,507	354,524	388,289	3,588,390
19 WAP	2,903	1,371	1,838	118,529	187	804,801	183,375	9,988	1,581	8,898	5,034	30,950	395,533	200,718	180,913	20,323	1,944,598
20 LEA	5,809	11,148	8,174	171,740	515	997,879	495,534	4,988	880	9,094	14,987	12,838	181,525	211,928	251,785	103,878	2,482,041
21 LUM	329,591	44,394	844,537	1,238,835	295	194,978	218,145	804,873	143,078	113,208	84,910	125,882	172,351	8,133	570,889	282,028	5,151,701
22 PPP	10,717	97,218	998,281	1,497,289	149	39,185	224,387	2,518	1,341	10,194	4,883	8,957	21,018	10,319	58,989	521,548	3,402,748
23 P&C	30,590	25,879	45,843	741,534	62	444,819	114,980	783,959	112,181	73,883	1,208,380	221	383,038	73	82,500	3,153,412	7,200,882
24 CRP	83,728	99,548	383,945	4,990,988	3,874	818,832	3,891,884	27,828	101,889	41,483	224,858	80,125	888,323	38,411	804,550	1,970,845	13,810,385
25 NMM	7,993	1,378	10,512	204,240	310	380,120	343,488	28,508	9,889	3,048	8,438	10,811	49,531	2,057	150,354	77,999	1,285,831
26 I&S	75,348	12,129	20,897	317,847	5,158	1,380,752	148,284	1,03,459	20,599	33,079	28,447	17,182	509,388	28,557	281,788	1,721,820	4,884,270
27 NFM	1,812,937	419,173	407,538	1,086,883	1,421	122,558	591,404	280,038	93,017	117,844	180,093	45,159	228,833	4,830	158,908	3,226,322	8,758,552
28 FMP	587,488	14,320	494,874	1,055,717	2,830	252,153	873,100	12,388	20,282	121,271	89,875	28,108	72,271	110,095	228,885	2,119,554	5,890,969
29 TRN	52,758	1,137	49,842	2,882,288	12,908	209,890	2,377,215	2,452	3,009	8,130	15,194	7,893	1,904	473	117,581	209,184	5,831,802
30 OME	88,400	4,887	144,248	10,284,010	72,112	1,933,211	3,130,287	8,929	308,089	49,910	725,083	208,118	188,784	305,988	1,808,941	1,307,078	20,304,020
31 OMF	114,538	548	17,007	974,221	2,011	447,238	1,444,251	7,784	7,345	28,998	32,054	93,848	248,908	240,520	899,828	220,827	4,577,897
32 EGW	0	0	0	0	25,783	0	0	0	0	0	0	0	0	0	0	0	25,783
33 CON	1,403	348	139	5,712	0	4,454	18,783	83	128	295	385	179	211	421	400	3,421	38,342
34 T&T	1,512,483	234,599	402,471	11,498,510	0	1,842,858	1,544,734	172,034	482,921	42,984	819,139	895,128	1,286,189	96,720	1,184,548	21,003,910	42,778,982
35 OSP	403,277	135,588	175,781	5,833,122	0	471,535	2,157,159	78,919	98,029	41,522	189,002	230,038	172,640	80,599	378,850	8,397,021	18,848,859
36 OSG	30,585	8,155	3,845	138,937	0	19,825	71,390	308	1,254	889	5,202	5,887	1,380	1,445	9,155	87,174	380,819
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11,889,890	2,037,703	7,880,718	57,910,829	138,114	12,458,440	21,141,552	8,328,473	4,370,818	1,877,232	4,037,590	3,753,078	11,037,383	1,802,333	9,207,379	89,355,085	228,804,988

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = KOR

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	8	0	0	0	0	0	8	0	0	0	0	0	0	12
2 WHT	23,587	0	7,282	312,234	301	0	127,308	0	90	340	184	0	0	8	0	27,831	498,944
3 GRO	8,700	0	1,559	490,287	45	0	4,875	0	14	387	0	84,348	155	174	0	82,858	833,180
4 NGC	53,257	188	3,522	803,959	12,704	17	13,500	58,530	189,176	19,407	41,988	87,730	55,825	4,753	19,258	242,398	1,585,718
5 WOL	221,223	25,835	0	538	348	0	3,992	0	875	0	0	0	88	183	10,749	8,927	270,712
6 OLP	40,302	88,324	43,855	787,734	15,897	38	97,978	4,337	43	1,541	3,438	1,510	188,510	18,359	23,805	233,799	1,527,287
7 FOR	0	21,550	12,487	318,498	8,437	0	823	287	332,187	1,098	258	425	19	1,387	325	105,287	800,983
8 FSH	2,791	14,540	3,514	178,749	14,079	75	7,882	3,581	1,255	145	5,204	1,559	3,849	1,843	5,188	49,892	283,704
9 COL	339,180	0	215,938	201,251	177	0	2,139	5,370	0	0	9	0	0	1,887	5,483	285,047	1,038,283
10 OIL	23,847	0	1,547	0	0	0	3,194	205,833	294,395	0	0	0	0	0	0	2,713,599	3,242,018
11 GAS	0	0	0	2,379	28	0	78	288,447	1,584	0	0	0	0	0	0	153,311	445,832
12 OMN	247,833	1,284	142,289	188,358	49,725	17	43,988	14,043	5,008	14,288	4,888	9,484	24,407	5,704	4,815	504,708	1,288,872
13 PCR	0	0	0	23	0	0	2	0	0	0	0	387	0	0	0	3	395
14 MET	83,147	18,228	580	31,710	838	0	2,483	31	0	0	51	33	173	0	0	287	117,588
15 MIL	981	945	123	3,221	44	0	8,877	0	0	0	228	0	0	258	0	248	12,722
16 OFP	108,721	9,594	24,039	98,731	25,357	54	28,552	18,897	57,183	13,184	7,389	85,108	7,421	2,559	8,541	245,478	734,787
17 B&T	3,172	17	17	71,318	1,449	0	35,848	0	0	91	174	0	38	179	118	284	112,501
18 TEX	33,883	520	28,989	138,888	552,555	5,983	148,849	20,780	4,508	3,908	4,355	7,889	481,948	38,704	184,417	422,071	2,031,542
19 WAP	30	0	48	2,871	3,279	52	11,321	118	34	42	70	91	588	424	227	420	19,821
20 LEA	9,598	8,998	5,551	104,013	137,204	1,051	148,789	17,858	39	983	998	714	8,504	4,102	57,058	95,358	598,588
21 LUM	3,597	1,848	7,978	88,938	24,508	12	17,082	181,228	55,753	1,098	14,192	2,524	2,192	783	1,134	9,837	372,508
22 PPP	13,834	27,298	132,083	855,427	104,421	49	41,192	4,310	43	148	18,788	4,719	251	9,402	35,272	108,748	1,151,971
23 P&C	11,785	2	50	140,314	118,703	0	38,792	21,821	8,714	11,008	82,197	8	402	588	18,810	204,402	835,352
24 CRP	40,785	14,888	240,812	1,897,722	1,989,829	812	1,084,451	12,880	18,343	5,531	79,310	7,534	85,488	13,821	83,839	888,429	8,053,079
25 NMM	2,443	0	9,434	80,937	289,535	58	88,281	8,508	844	3,020	4,134	1,058	15,373	2,791	4,489	33,807	543,283
26 I&S	55,385	30	22,022	395,353	1,398,541	509	253,058	548	578	5,158	8,704	245	32,549	9,358	78,087	442,988	2,702,083
27 NFM	371,540	3,834	103,188	183,715	284,011	23	88,907	17,505	21,182	88,808	73,802	3,183	101,990	15,580	84,458	318,031	1,727,233
28 FMP	45,785	879	15,472	334,484	288,293	1,138	104,800	130	13,282	814	22,272	825	9,903	22,870	28,378	92,891	957,782
29 TRN	10,382	104	10,219	1,120,759	480,081	7	348,728	9	22	4	10,241	38	0	23,138	25,080	259,331	2,298,122
30 OME	52,888	488	73,253	4,227,723	8,389,478	23,384	1,823,077	3,538	95,785	15,084	382,758	55,100	18,901	251,287	422,842	482,431	18,317,782
31 OMF	2,289	50	1,378	114,007	152,300	170	45,240	3,148	358	2,385	980	831	15,853	14,925	18,428	39,597	411,718
32 EGW	0	0	0	0	0	18,040	0	0	0	0	0	0	0	0	0	0	18,040
33 CON	389	85	30	2,549	384	0	7,078	10	53	39	138	30	32	188	81	1,239	12,281
34 T&T	133,883	14,874	28,734	1,728,344	437,420	0	185,805	8,905	87,382	1,928	98,985	51,348	27,215	14,524	78,785	880,511	3,744,199
35 OSP	48,051	10,957	18,218	1,131,812	220,888	0	353,315	5,145	17,854	2,405	28,900	17,050	11,292	17,580	32,828	642,787	2,554,787
36 OSG	23,420	3,335	2,378	178,084	11,830	0	78,384	137	1,518	288	5,334	2,828	588	1,879	5,385	208,487	521,838
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,991,915	248,088	1,152,321	15,808,188	14,998,458	51,481	5,247,347	888,081	1,188,833	172,875	875,481	388,580	1,051,157	474,948	1,184,648	9,528,872	55,251,002

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = EEC

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	2	0	550	107,830	19	0	97,243	0	0	0	0	25,710	113	0	0	97,983	329,251
2 WHT	39	0	199,229	88,714	10	0	2,112,715	0	0	0	0	31	0	0	0	58,284	2,459,003
3 GRO	26,898	5,248	22,830	416,192	57	0	2,447,582	0	0	0	0	2,488	3,891	113	5	182,970	3,088,018
4 NGC	199,753	271,874	215,984	3,485,184	27,571	18,440	12,828,850	519,275	591,382	84,070	357,832	854,179	523,885	10,355	11,541	13,236,990	32,994,905
5 WOL	1,244,512	334,069	828	3,759	839	0	288,285	82	83	0	0	1,218	0	0	355	383,836	2,257,805
6 OLP	247,122	261,209	101,955	488,105	23,185	8,708	5,151,352	12,927	1,929	3,255	18,258	5,582	812,873	20,858	8,601	1,980,184	8,901,889
7 FOR	175	998	12,285	105,314	4,282	388	530,938	549	2,195	1,318	528	38	180	53	0	888,147	1,545,319
8 FSH	24,201	12,728	192,417	197,075	51,730	28,805	2,448,833	49,177	5,330	4,398	40,656	120,344	45,314	2,881	24,175	2,838,597	8,086,239
9 COL	597,441	1,373	91,788	1,742,290	12	0	1,028,333	2,852	0	0	0	0	83,350	0	0	1,493,883	5,049,131
10 OIL	0	0	8,849	9,884	0	0	4,039,082	29,348	0	0	0	0	5,847	0	0	29,389,850	33,480,289
11 GAS	1,855	0	1,081	3,056	124	31	2,389,711	0	0	0	0	0	0	0	87	4,958,852	7,332,398
12 OMN	888,828	882	1,298,032	1,078,423	104,394	3,308	4,950,877	24,479	35,734	21,339	10,858	148,304	138,814	122,884	3,483	8,200,745	17,008,739
13 PCR	2,503	0	33	65,885	10	4	317,887	0	0	0	17	48,703	811	37	84	25,895	459,470
14 MET	97,495	373,188	45,587	310,878	450	318	9,941,523	21,255	119	41	815	5,949	35,599	350	81	1,748,923	12,582,548
15 MIL	11,879	227,375	18,754	18,743	431	9	8,990,222	38	70	0	1,317	0	4	30	7	445,879	9,712,558
16 OFP	78,819	19,788	255,132	1,968,279	152,471	58,052	17,840,550	380,125	352,918	285,503	29,975	405,783	528,823	21,227	59,918	7,977,212	30,211,372
17 B&T	32,033	4,292	9,704	1,521,011	8,821	2,038	7,424,848	32,230	244	10,478	5,878	1,950	8,118	791	1,835	448,135	9,508,201
18 TEX	27,740	5,504	74,713	1,102,414	871,082	332,408	18,352,970	139,055	40,145	15,187	28,923	184,788	969,384	143,123	313,341	8,189,904	28,480,680
19 WAP	3,892	58	5,994	142,485	54,710	392,597	3,110,970	189,833	50,317	118,180	275,034	98,908	322,121	1,990,595	149,338	2,502,749	9,403,559
20 LEA	34,298	51,168	33,357	325,092	51,103	1,228,394	7,398,284	69,107	9,488	24,313	27,424	190,372	874,203	246,128	814,781	3,839,887	14,819,185
21 LUM	8,218	2,445	789,771	1,022,540	51,511	30,837	9,447,209	471,899	383,403	204,771	215,318	84,918	100,875	18,955	222,580	6,963,485	20,009,342
22 PFP	9,583	15,070	1,893,998	2,458,025	277,298	41,548	15,980,050	743	7,335	5,973	40,003	5,437	28,090	90,397	38,974	13,374,720	34,087,221
23 P&C	148	0	25,853	815,488	23,035	25	11,034,830	3,818	27	0	4,904	14	5,382	287	1,708	8,438,185	20,351,481
24 CRP	204,980	59,837	572,433	8,782,775	2,540,228	399,319	75,088,790	38,228	118,008	34,400	114,170	158,707	788,838	171,442	652,737	18,889,710	108,550,198
25 NMM	5,898	888	28,838	357,017	270,331	38,355	9,795,935	3,782	4,792	3,279	2,847	31,151	89,825	21,088	170,805	1,831,586	12,455,581
26 I&S	4,998	3,188	202,875	428,834	287,018	79,340	22,893,450	18,255	9,212	130	7,891	4,458	21,030	1,389	59,183	7,487,128	31,288,332
27 NFM	395,731	9,177	502,284	875,834	89,847	2,040	10,950,020	28,854	79,815	3,985	44,797	28,024	89,059	14,731	2,981	9,354,880	22,230,717
28 FMP	100,050	12,137	340,723	2,124,586	557,956	258,858	18,089,570	993	18,542	24,551	74,987	32,759	289,878	188,731	459,718	7,952,304	28,512,130
29 TRN	140,888	8,583	349,991	8,008,154	9,504,121	458,229	62,010,820	9,210	18,151	2,531	88,530	8,352	27,887	32,392	184,982	11,283,330	82,133,231
30 OME	345,280	39,392	1,489,158	34,304,100	25,508,480	3,034,481	117,588,400	24,170	884,555	271,504	3,075,888	394,822	834,053	2,235,578	4,100,530	29,781,430	223,847,359
31 OMF	278,332	4,895	78,438	2,375,999	1,824,897	789,724	8,132,184	12,180	37,991	48,784	139,198	158,525	1,032,378	877,843	1,085,484	2,743,897	19,198,424
32 EGW	0	0	0	0	0	0	2,177,945	0	0	0	0	0	0	0	0	2,135,827	4,313,572
33 CON	14,547	7,388	3,427	218,839	15,017	82,737	10,438,750	327	1,788	3,798	11,818	4,081	3,149	38,140	8,804	4,578,585	15,404,971
34 T&T	517,488	184,248	327,185	14,527,430	1,771,782	783,857	28,330,920	29,721	223,073	18,244	829,770	875,191	282,703	274,089	845,351	30,814,530	80,175,300
35 OSP	189,022	130,029	195,758	10,098,230	947,734	300,315	54,200,130	18,205	82,887	24,155	282,288	237,713	118,743	351,704	374,587	25,708,290	83,213,547
36 OSG	37,191	15,311	11,108	814,897	19,855	32,418	4,852,000	188	2,058	1,040	18,722	15,242	2,385	14,548	23,811	1,235,998	6,898,185
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5,748,858	2,039,645	9,158,055	99,928,358	44,595,727	8,341,177	589,843,728	2,131,480	2,915,427	1,183,222	5,728,092	3,918,291	7,499,378	8,888,552	9,817,395	288,771,708	1,048,091,889

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = IND

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	28
2 WHT	183,001	0	51,074	30,881	0	0	6,111	0	0	0	0	0	0	0	0	55,537	308,703
3 GRO	109	0	28	5,332	0	0	12	0	0	189	33	1,822	3,881	18	15	0	11,218
4 NGC	31,885	2,743	488	184,878	1,789	308	4,848	0	2,808	700	1,887	24,817	241,815	2,708	2,083	138,483	638,887
5 WOL	2,424	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,576
8 OLP	7,830	7,178	391	18,231	1,598	134	1,158	4	24	0	100	88	39	187	113	278	37,130
7 FOR	5	0	0	1,159	32	0	8	0	5	0	5	0	0	0	0	139	1,350
8 FSH	17	83	43	303	1,237	0	108	0	24	0	75	3	0	85	929	709	3,818
9 COL	41,488	0	0	597	4,189	0	244	0	14	0	517	28	1,573	0	270	52	48,947
10 OIL	21,578	0	0	0	0	0	0	0	81,732	0	0	0	0	0	0	427,538	510,948
11 GAS	13	0	0	42	0	8	52	0	7	0	47	0	0	0	0	0	187
12 OMN	2,892	802	31,420	18,992	4,844	2,155	8,548	2	183	30	9,505	5,813	12,193	1,317	1,835	83,218	183,149
13 PCR	0	0	0	12,215	0	3	2	0	80	0	0	11,271	0	0	152	0	23,704
14 MET	4,193	2,847	112	3,379	90	7	288	3	32	0	88	0	22	38	85	0	11,139
15 MIL	11,545	35,849	4	7,079	82	0	14,504	0	1,222	17	225	9	41	14	18	8,087	78,854
18 OFF	11,251	18,351	38,807	29,498	13,888	13,240	38,224	0	118,377	827	22,248	24,513	52,098	1,898	48,197	17,280	448,489
17 B&T	3,888	10	18	9,329	815	308	4,558	0	118	202	592	338	1,447	473	899	17,450	40,222
18 TEX	2,873	587	1,910	50,981	87,512	45,885	28,485	80	7,454	181	5,134	8,088	13,875	44,235	104,872	7,453	408,783
19 WAP	147	0	23	177	287	481	203	1,108	7	74	92	208	199	800	1,427	47	5,267
20 LEA	108	18	34	1,110	457	14,750	1,348	5	73	45	331	832	318	289	8,425	118	28,054
21 LUM	525	54	151	2,848	8,099	594	8,352	18	282	3	438	104	488	374	1,107	275	19,485
22 PPP	8,028	28,891	88,535	102,313	24,171	2,721	84,241	0	1,358	45	25,838	1,758	4,882	9,838	8,245	87,891	434,031
23 P&C	13,848	0	1,182	37,078	18,208	2,858	13,777	0	28,735	3,988	320,215	1,558	5,302	965	5,231	37,089	487,798
24 CRP	63,310	3,537	118,828	378,312	512,904	73,180	558,977	132	22,388	27,521	274,127	10,881	91,342	18,537	118,440	393,159	2,881,553
25 NMM	2,375	132	517	5,885	34,150	7,500	38,010	8	1,218	512	5,559	4,151	8,389	552	9,831	10,388	128,834
28 I&S	33,518	82	594	37,124	448,388	114,791	107,950	173	9,232	182	48,091	977	30,178	9,581	38,814	97,287	974,780
27 NFM	148,833	1,237	12,853	9,570	32,855	9,184	18,947	14	1,582	597	14,447	828	4,957	1,592	10,785	87,737	331,374
28 FMP	21,027	120	1,881	34,588	92,489	19,288	57,999	298	5,192	820	18,298	1,484	14,711	3,178	13,941	24,517	309,384
29 TRN	10,355	182	2,487	188,088	589,279	1,420	297,201	7	13,784	43	58,142	4,293	7,821	441	21,174	53,503	1,248,210
30 OME	49,230	3,884	19,812	788,555	1,470,744	148,893	1,023,487	324	38,583	2,288	211,888	14,152	88,085	23,750	285,123	201,388	4,324,774
31 OMF	7,397	74	408	4,071	27,410	3,807	18,844	0	159	159	5,098	197	3,231	4,841	8,771	795	81,059
32 EGW	0	0	0	0	0	0	0	91	0	0	0	0	0	0	0	0	91
33 CON	128	30	9	359	79	283	3,292	0	14	8	185	10	18	49	48	148	4,817
34 T&T	99,057	14,588	18,301	525,825	205,971	70,382	198,788	0	37,328	844	255,417	38,908	38,273	8,122	100,635	481,498	2,089,911
35 OSP	48,120	14,721	13,957	485,790	140,431	35,289	478,857	0	13,385	1,424	102,908	18,583	17,134	13,285	58,835	858,840	2,074,499
38 OSG	21,947	4,192	1,915	88,589	7,044	8,208	98,812	0	1,082	148	17,788	2,589	848	1,329	8,885	184,740	428,832
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	828,199	140,951	383,374	3,001,012	3,724,378	574,431	3,081,034	2,280	385,187	40,587	1,394,842	171,589	821,291	148,180	852,305	3,059,385	18,395,001

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = MAL

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
2 WHT	57,882	0	13,582	8,845	0	0	0	0	0	0	2,388	0	2	0	3	13,034	83,716
3 GRO	3,032	228	273	20,583	0	0	104	1,488	0	0	24,778	47,535	18,153	0	4	32,803	148,990
4 NGC	32,780	2,598	5,837	50,330	2,153	5,050	4,828	25,938	0	1,828	138,870	38,887	111,785	1,873	15,741	83,574	527,578
5 WOL	37,571	215	0	5	38	0	0	0	0	0	0	0	0	2	41	0	37,871
8 OLP	8,128	1,784	88	3,470	43	43	1,858	344	1	5	5,595	1,540	1,510	538	431	202	25,588
7 FOR	0	0	18	88	4	0	55	855	0	0	104	830	0	0	10	54	1,898
8 FSH	242	349	93	377	5,045	1,078	821	10,753	24	102	10,438	31,780	99	585	1,548	8,977	73,418
9 COL	19,709	2	9	10	4	0	70	5,334	0	0	1,873	23	11,884	0	8	0	38,723
10 OIL	0	0	4,870	0	0	0	0	8,843	0	0	23,483	0	0	0	0	108,380	148,757
11 GAS	0	0	0	25	0	0	87	0	0	2,218	35,085	0	0	0	0	0	37,374
12 OMN	41,748	292	11,438	5,350	3,982	800	41,843	3,773	38	83	34,727	5,241	48,735	1,487	487	48,354	248,894
13 PCR	73	0	0	0	0	0	0	0	0	0	541	78,172	2,278	0	0	851	81,918
14 MET	13,958	5,927	287	3,057	3	258	2,137	282	0	2	13,125	185	9,872	1,008	131	21,048	71,284
15 MIL	28,887	75,780	3,083	3,072	51	0	19,428	0	0	0	3,272	0	8	0	0	4,257	137,648
18 OFP	100,484	14,077	2,880	34,352	13,304	4,900	38,047	48,852	38	3,471	117,884	85,478	58,787	2,800	10,783	58,354	575,888
17 B&T	3,884	23	13	20,754	811	130	33,874	870	0	15	12,428	184	2,357	7,381	40	878	83,300
16 TEX	3,456	1,037	4,071	17,824	84,257	31,744	17,185	15,139	224	1,047	181,285	17,208	40,811	44,805	81,575	13,870	585,858
19 WAP	87	2	5	270	875	272	770	1,144	7	124	11,530	3,123	3,710	3,842	2,741	480	28,581
20 LEA	41	24	2	781	908	4,085	3,370	188	1	37	9,078	2,219	4,157	871	4,885	2,888	33,429
21 LUM	312	82	141	2,380	8,803	581	3,247	2,780	1	232	11,482	581	1,820	308	1,584	1,338	33,212
22 PPP	8,181	11,282	25,281	85,783	37,808	3,919	39,784	20,882	0	370	125,170	9,438	17,801	9,030	15,787	48,223	438,480
23 P&C	3,958	42	8	5,337	10,513	1,803	5,251	194	0	7,358	851,388	322	1,840	738	1,217	20,007	708,877
24 CRP	41,008	1,918	48,815	238,854	281,251	27,874	281,555	25,031	124	9,578	808,335	22,411	41,270	28,228	54,197	144,408	1,851,152
25 NMM	1,481	89	123	9,912	18,958	2,408	22,048	4,552	0	358	25,189	5,805	5,778	481	7,057	2,850	104,885
26 I&S	25,282	5,957	141	11,483	304,488	87,244	88,814	12,578	1	894	125,555	1,782	18,454	1,333	24,888	70,825	785,085
27 NFM	58,571	1,814	13,418	18,508	51,988	8,338	15,148	715	0	2,887	119,000	2,479	2,382	2,599	7,203	58,487	382,418
28 FMP	7,317	810	1,452	48,100	57,178	7,719	120,155	8,751	1	508	153,381	4,888	18,803	8,139	21,879	24,841	482,898
29 TRN	8,948	99	7,788	134,817	334,838	4,134	88,443	10,177	0	91	78,181	2,778	1,808	72	7,870	28,055	708,007
30 OME	23,482	2,873	12,870	1,871,812	1,588,981	182,848	539,159	11,751	2,809	78,237	1,978,184	107,222	24,822	95,487	283,329	142,481	8,771,314
31 OMF	14,250	224	475	12,384	28,881	9,880	11,089	583	5	741	49,899	2,883	12,078	12,803	19,208	4,221	178,202
32 EGW	0	0	0	0	0	0	0	0	8,382	0	0	0	0	0	0	0	8,382
33 CON	771	260	28	3,247	481	1,578	14,485	18	0	188	5,475	280	88	847	282	418	28,242
34 T&T	42,238	8,810	4,178	332,233	88,158	28,577	80,471	2,301	0	1,241	582,087	73,988	775	7,582	43,191	8,597	1,294,488
35 OSP	54,439	24,888	8,821	814,885	188,275	41,040	408,197	4,872	0	5,788	880,345	81,884	19,757	34,241	87,525	88,987	2,473,844
38 OSG	38,480	10,805	1,845	182,870	12,888	18,332	129,188	189	0	920	173,775	21,721	1,488	5,221	15,883	45,072	857,457
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	882,307	171,780	189,741	3,715,485	3,108,004	483,171	1,999,483	231,235	9,483	118,285	5,981,228	838,503	481,322	270,548	899,101	1,075,388	19,824,001

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = PHI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	311	0	0	0	0	0	0	0	0	0	0	0	0	311
2 WHT	123	0	7,810	150,125	0	0	0	0	0	0	0	0	0	0	0	10	157,889
3 GRO	528	0	0	4,103	22	0	0	0	0	0	0	0	0	0	0	0	4,854
4 NGC	18,287	1,182	883	48,878	1,341	208	2,828	4,887	2,889	15	17,088	574	10,237	8,122	1,405	28,148	142,815
5 WOL	15	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
8 OLP	3,888	117	785	3,177	1,121	0	3,271	297	13	3	91	155	31	29	173	179	13,117
7 FOR	0	301	0	10	0	0	90	0	0	0	0	0	0	0	0	558	959
8 FSH	85	0	3	110	30,153	2	15	821	0	10	379	0	0	87	53	1,799	33,498
9 COL	15,131	0	0	7,175	9,489	0	0	314	0	0	88	0	29,152	0	1,180	0	62,488
10 OIL	58,088	0	0	0	0	0	4,789	0	180,880	0	135	0	87,181	0	0	581,099	870,129
11 GAS	0	0	0	87	2,110	0	39	0	0	0	0	2,574	0	0	4,252	15,104	24,148
12 OMN	2,889	142	5,528	17,388	4,853	1,442	4,911	13,858	254	0	3,027	1,198	1,881	838	891	82,028	140,282
13 PCR	0	0	0	45,138	0	0	0	0	0	0	0	428	0	0	0	0	45,583
14 MET	7,709	133	45	1,788	11	0	5,504	0	3,224	12	3,057	0	24	215	57	248	22,005
15 MIL	47,053	42,320	7,077	30,038	0	0	44,439	1,793	2,485	0	1,711	2,534	0	139	89	3,183	182,849
18 OFP	25,071	2,443	8,798	89,331	18,399	3,058	37,580	445	8,994	3	15,483	13,855	103,302	5,181	11,594	28,173	343,508
17 B&T	13,158	4	8	38,880	4,819	5,858	14,833	34	142	107	1,285	44	184	1,499	14,784	15,549	108,548
18 TEX	519	1,442	8,238	80,184	85,240	59,308	18,459	9,558	12,343	498	38,754	7,073	12,779	81,183	153,583	9,805	554,832
19 WAP	71	0	79	12,558	1,121	710	1,477	4	141	25	1,419	1,898	71	2,419	785	5	22,781
20 LEA	304	78	22	25,780	17,210	3,705	7,988	422	20	22	333	283	384	2,422	5,758	884	85,380
21 LUM	35	3	218	8,498	1,841	1,252	2,542	0	148	8	840	158	0	347	589	47	18,302
22 PPP	2,844	11,119	20,473	90,877	18,583	4,105	17,447	1,858	975	0	11,001	408	209	8,854	8,834	20,087	215,251
23 P&C	2,478	0	41	8,073	2,439	8,559	3,132	0	4,815	0	77,318	0	8,898	748	151	30,057	144,705
24 CRP	27,178	2,088	33,397	224,825	202,112	42,275	189,215	41,187	17,148	177	104,829	4,288	11,942	27,951	55,078	137,107	1,120,558
25 NMM	1,885	24	488	9,994	88,051	5,745	14,803	7,543	920	2	8,880	2,388	1,800	1,380	3,520	1,794	128,372
28 I&S	13,880	2,057	880	9,177	138,797	80,074	31,588	883	5,482	0	7,003	5,850	13,732	3,403	21,385	135,820	489,779
27 NFM	38,521	576	7,282	5,477	23,758	10,527	9,598	3,308	3,312	0	10,271	1,555	2,418	1,944	5,147	8,133	127,805
28 FMP	4,232	989	452	40,337	38,750	18,553	15,481	813	1,354	48	18,488	1,200	2,432	7,504	8,195	3,024	181,829
29 TRN	4,454	28	371	48,022	283,383	2,824	78,204	24	180	35	8,782	241	137	883	3,347	1,350	408,208
30 OME	17,842	892	8,945	924,411	583,238	100,084	389,874	1,201	85,405	435	150,875	18,484	5,833	41,255	99,858	39,859	2,457,949
31 OMF	8,059	5	178	7,087	17,090	1,577	8,805	485	812	34	8,803	813	1,305	12,933	7,089	833	73,238
32 EGW	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
33 CON	288	84	12	1,590	165	903	5,838	4	58	0	359	28	38	387	128	5,087	14,833
34 T&T	24,893	4,807	3,017	273,081	50,247	28,425	40,974	852	18,210	0	85,188	11,150	13,353	7,204	31,850	227,834	801,092
35 OSP	7,538	3,180	1,509	158,589	22,480	9,341	85,504	487	4,275	0	17,218	3,280	2,891	7,725	11,783	133,849	448,449
38 OSG	723	182	42	4,705	227	491	2,739	2	88	0	599	102	29	158	382	1,528	11,954
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	340,895	74,281	112,072	2,325,503	1,814,571	388,002	1,017,381	81,287	312,390	1,450	588,458	80,088	289,798	220,325	451,488	1,508,443	9,382,999

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = SIN

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	11	0	0	0	0	42	39	0	229	0	0	0	0	320
2 WHT	20,247	0	471	7,882	0	0	20	0	281	0	0	0	0	0	0	9,138	37,900
3 GRO	1,778	0	0	10,487	0	0	79	1,561	540	9	0	11,990	5,082	0	3,288	17,548	52,321
4 NGC	48,255	8,892	8,383	71,058	8,077	27,406	14,973	355,259	780,542	15,915	190	141,517	178,471	7,852	88,989	154,037	1,897,394
5 WOL	1,211	204	0	0	0	0	40	0	3	0	0	0	0	0	0	0	1,458
6 OLP	8,717	913	155	3,738	893	4	3,118	6,747	102,582	22	13	2,044	10,897	1,835	11,890	15,323	189,578
7 FOR	350	158	273	1,837	11	2	479	1,847	4,821	0	0	509	148	23	367	7,750	18,273
8 FSH	4,087	2,883	319	3,089	23,405	5,843	2,298	43,784	29,749	938	67	37,736	5,512	5,838	100,515	32,873	298,512
9 COL	855	0	13	478	1,151	0	82	274	19	0	0	0	578	14	23	187	3,851
10 OIL	92,059	0	0	0	0	0	0	53,229	731,273	0	0	0	858,283	0	23,431	2,155,922	3,714,208
11 GAS	13	0	0	220	7	0	99	8,854	105	234	0	0	0	0	0	252	7,784
12 OMN	7,759	532	8,422	24,393	4,228	484	38,743	14,198	10,191	91	115	22,115	44,186	2,142	459	52,938	228,998
13 PCR	981	0	0	1,488	0	0	0	0	782	249	0	90,382	1,519	0	74	2,571	98,055
14 MET	14,007	17,305	99	37,080	1,251	11	20,785	2,810	1,314	282	0	7,173	38,477	887	9	21,901	183,171
15 MIL	54,889	31,878	588	1,898	180	80	39,329	50	16,244	73	0	4,052	352	31	0	8,000	157,398
16 OFP	57,108	9,097	3,859	58,144	41,384	7,089	52,501	35,297	400,270	5,540	41	43,974	145,108	12,421	35,708	78,408	981,743
17 B&T	3,458	102	816	120,407	5,702	2,883	124,555	2,373	15,822	484	0	1,888	9,743	14,170	2,208	9,988	314,138
18 TEX	5,178	825	3,744	44,905	210,817	143,849	59,259	88,307	73,182	1,725	331	83,558	215,528	138,599	347,009	82,874	1,477,098
19 WAP	1,218	87	43	5,418	12,390	8,789	34,178	28,901	207,171	2,113	282	57,574	24,083	47,802	31,112	51,488	510,585
20 LEA	727	138	54	8,818	8,772	24,941	93,523	5,837	18,998	872	28	22,930	11,015	21,898	42,888	31,289	290,182
21 LUM	3,453	3,241	1,155	25,025	5,580	2,954	28,887	210,834	232,430	923	21	10,994	6,888	4,388	15,519	18,744	588,978
22 PPP	10,372	20,488	38,587	104,837	110,887	7,494	75,034	29,534	54,578	778	298	8,758	38,872	17,725	20,781	127,211	881,584
23 P&C	58,089	14	172	95,308	31,598	18,597	38,079	38,410	145,971	8,987	28	385	183,883	520	33,881	1,215,542	1,843,040
24 CRP	70,518	3,081	52,817	843,385	584,512	83,822	828,388	42,159	187,100	9,891	470	80,787	108,409	53,191	187,728	308,873	2,842,704
25 NMM	3,837	133	410	24,885	122,124	7,827	118,785	21,307	54,955	1,577	83	17,301	28,508	5,181	38,518	31,831	475,582
26 I&S	35,580	1,144	2,834	32,554	491,599	95,387	187,001	11,521	89,307	180	89	23,083	39,379	3,377	21,985	158,948	1,152,008
27 NFM	479,147	25,422	45,521	127,524	187,715	40,801	78,778	195,534	89,759	17,079	88	30,810	22,588	7,807	40,823	252,145	1,801,135
28 FMP	21,171	2,882	28,898	117,928	253,582	24,213	171,440	324,873	70,987	1,925	413	18,392	85,844	23,727	85,257	48,488	1,239,373
29 TRN	19,888	737	15,909	482,528	722,593	130,443	354,221	2,808	89,883	19,354	31	14,716	14,531	17,972	18,537	83,848	1,885,994
30 OME	115,550	8,378	53,398	4,020,888	5,185,171	738,805	1,788,071	25,539	1,738,178	135,973	7,877	807,673	82,880	473,448	908,153	587,228	18,429,109
31 OMF	81,750	898	2,381	381,838	148,845	29,935	71,842	87,339	58,916	2,470	890	10,200	31,987	53,153	83,744	17,572	1,023,338
32 EGW	0	0	0	0	0	0	0	0	0	0	398	15,885	0	0	0	0	18,284
33 CON	75	12	2	388	82	255	1,827	5	72	15	0	37	18	118	47	17	2,947
34 T&T	58,442	5,882	4,413	558,188	158,550	87,538	108,024	10,311	195,583	1,812	0	133,588	4,812	19,244	97,334	53,783	1,478,077
35 DSP	81,055	17,891	10,025	1,475,547	322,012	100,841	784,889	23,980	208,818	8,102	0	178,571	58,030	93,783	183,750	850,791	4,175,435
36 DSG	15,335	2,002	547	88,382	8,421	10,488	64,758	238	6,589	335	0	11,010	1,100	3,729	9,925	28,931	247,770
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,375,108	181,745	277,943	8,578,780	8,809,088	1,553,715	4,935,781	1,852,917	5,538,438	235,283	11,490	1,849,038	2,012,842	1,028,508	2,349,588	6,287,987	48,254,008

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = THA

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	38
2 WHT	12,781	0	8,222	20,888	0	0	1,107	0	0	0	0	0	0	0	0	2,772	43,560
3 GRO	1,984	0	7	848	0	0	243	0	0	33	30	0	0	0	0	4	2,930
4 NGC	19,531	778	540	84,087	5,792	798	11,119	2,458	1,540	229	8,555	15	8,748	1,472	1,485	188,857	333,779
5 WOL	28,805	2,252	0	0	0	0	238	0	0	0	0	0	0	0	0	0	31,092
6 OLP	3,854	3,517	522	18,955	2,959	3,535	8,517	1,378	213	34	3,443	188	35,358	317	1,208	10,979	90,872
7 FOR	0	0	18	210	14	0	58	0	19,811	7	189	0	0	0	10	44,109	84,424
8 FSH	2,354	7,255	412	81,529	119,247	28,798	32,088	28,324	5,777	2,329	38,137	34	4,103	3,358	82,249	78,408	490,400
9 COL	4,288	0	0	178	230	12	0	2,059	0	0	97	0	0	0	3	0	8,883
10 OIL	8,585	0	8,821	0	0	0	0	0	147,380	0	174,184	0	0	0	0	579,871	918,839
11 GAS	0	0	0	88	12	0	7	8,822	745	0	12,972	0	0	0	0	2,397	22,843
12 OMN	19,170	57	28,939	54,834	4,884	2,908	158,882	1,397	778	783	21,780	4,814	185	13,421	7,428	199,822	519,789
13 PCR	0	0	2	0	0	0	38	0	0	0	0	0	0	0	0	0	38
14 MET	477	285	3	895	138	0	828	0	3	0	1,599	2	0	28	0	13	4,058
15 MIL	19,152	21,345	2,885	11,213	3,038	0	47,832	0	39	53	287	0	0	0	0	939	108,740
16 OFF	8,979	884	4,084	23,980	30,873	821	42,940	1,101	8,989	414	11,882	80	817	353	7,015	7,544	148,127
17 B&T	382	28	103	38,448	732	20	57,219	2,970	89	27	4,210	3	17	85	50	723	106,085
18 TEX	1,480	3,117	3,728	23,411	81,503	87,978	22,480	18,280	8,381	1,311	20,357	338	114,375	38,585	134,084	20,988	559,304
19 WAP	72	0	0	271	891	219	882	21	199	321	1,588	10	419	1,853	888	71	7,082
20 LEA	289	39	38	13,452	1,925	8,849	4,482	308	54	437	511	75	5,944	837	21,809	2,803	81,228
21 LUM	380	2	249	4,935	5,323	544	8,257	39,392	84,209	120	5,823	25	75	78	508	7,994	137,910
22 PPP	4,529	8,831	37,091	50,444	38,057	4,938	33,882	779	8,335	80	25,485	25	578	13,154	9,833	85,250	319,091
23 P&C	12,274	0	111	15,401	15,989	1,134	9,558	954	5,784	504	817,849	0	1,720	34	2,428	15,977	899,477
24 CRP	30,088	1,387	24,047	348,853	553,720	112,892	488,332	20,219	38,105	23,743	222,092	308	17,448	18,814	104,071	358,971	2,387,070
25 NMM	2,181	38	1,115	11,718	50,955	3,118	19,049	554	1,390	458	4,475	27	1,018	1,358	5,778	4,182	107,414
26 I&S	15,849	28	50,351	37,185	738,212	110,258	133,318	13,817	13,003	2,173	34,851	74	5,527	12,471	50,019	299,775	1,518,507
27 NFM	134,338	2,907	38,217	18,112	57,085	11,799	27,184	24,538	8,889	1,855	28,285	0	5,928	1,897	9,750	82,184	448,503
28 FMP	11,283	218	9,483	44,014	187,543	21,125	51,237	1,840	8,041	3,742	35,590	24	1,041	4,982	22,828	30,820	413,588
29 TRN	9,879	89	1,117	411,587	887,532	55,184	353,399	1,374	2,080	2,787	22,712	30	3	218	9,028	32,848	1,789,815
30 OME	28,502	891	33,108	1,134,195	2,270,081	148,574	718,891	1,528	81,884	130,145	753,988	1,132	12,800	58,974	325,809	272,808	5,948,884
31 OMF	4,105	10	341	17,985	28,843	7,582	14,988	237	1,321	810	8,233	109	3,991	7,824	17,439	8,144	122,823
32 EGW	0	0	0	0	0	0	0	0	0	0	158,734	188	0	0	0	0	158,920
33 CON	48	9	4	289	75	213	2,018	1	11	23	231	0	4	43	35	70	3,070
34 T&T	39,344	5,034	9,328	480,208	212,082	82,284	131,232	2,312	32,848	2,849	388,209	0	8,198	7,878	80,007	288,882	1,709,272
35 OSP	17,559	4,989	8,819	390,782	138,803	29,925	308,738	1,730	11,208	4,285	149,824	0	4,385	12,351	43,312	338,243	1,480,711
36 OSG	3,334	553	373	22,957	2,774	3,117	25,404	17	355	178	10,328	0	88	493	2,834	15,143	87,744
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	441,189	84,196	278,038	3,335,595	5,398,399	888,403	2,709,984	172,782	448,988	179,310	2,983,175	7,302	230,375	184,538	919,253	2,980,537	20,985,999

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = CHI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	284,909	0	1,898,879	1,052,216	0	0	7,952	0	0	0	0	0	0	0	0	0	3,241,956
3 GRO	22,162	0	15,517	300	0	0	535	0	0	0	0	361	0	80	0	0	38,936
4 NGC	17,042	647	3,147	62,697	3,189	818	6,905	115,025	209,724	6,635	231,438	24,642	0	1,771	14,957	36,074	738,710
5 WOL	256,144	492,394	0	310	0	0	32,342	0	94	0	0	0	0	0	5,233	2,245	786,763
6 OLP	18,413	6,725	3,972	42,563	2,259	389	18,945	54	9	61	5,556	1,837	0	1,889	939	55,351	158,744
7 FOR	0	12,093	19,975	79	43	0	1,851	5	52,897	78	54	620	0	1,181	30	3,228	91,909
8 FSH	832	4,990	1,483	1,234	8,785	139	2,442	2,455	58	3,611	1,446	1,195	0	788	2,016	9,751	41,024
9 COL	8,515	0	5	0	24	0	17	0	0	0	0	0	0	0	0	0	8,561
10 OIL	0	0	0	0	0	0	0	28,043	19,450	0	0	0	0	0	0	0	48,493
11 GAS	0	0	0	161	18	0	115	0	0	1,189	2,507	0	0	0	0	830	4,620
12 OMN	85,447	110	38,983	37,113	2,925	1	37,804	11,095	408	7,106	215	534	0	3,331	408	19,662	245,119
13 PCR	0	0	0	54	0	0	0	0	0	0	0	365	0	0	0	1	441
14 MET	12,113	2,422	276	4,480	3,170	21	15,455	22	77	0	49	1,516	0	121	142	5,518	45,382
15 MIL	7,748	12,573	131	2,009	34	0	50,100	0	73	4	118	11	0	128	0	1,887	74,791
16 OFP	28,142	28,820	5,908	19,804	35,338	4,445	48,428	8,217	132,885	25,925	153,694	10,828	0	31,136	20,181	32,921	584,448
17 B&T	2,439	11	88	204,471	7,229	2,819	78,759	837	28	4,172	6,243	8	0	220,830	84	14,222	539,617
18 TEX	62,642	1,962	25,702	314,850	916,929	461,589	522,865	21,626	23,188	3,601	6,225	23,820	0	771,651	1,087,700	178,933	4,423,243
19 WAP	502	0	29	2,487	18,870	2,442	6,687	48	141	1,205	54	57	0	215,370	7,095	4,286	257,249
20 LEA	12,703	568	1,535	56,456	36,597	22,472	54,184	3,820	54	117	2,114	6,288	0	90,988	111,558	92,774	492,224
21 LUM	1,732	1,473	34,288	26,381	25,582	2,945	22,828	499,381	52,474	1,727	17,533	6,143	0	26,599	26,866	32,189	777,676
22 PPP	14,514	34,798	273,711	332,679	150,413	28,569	127,240	22,977	4,275	77	4,770	5,019	0	255,215	40,281	78,820	1,389,536
23 P&C	18,347	0	3,180	28,921	25,848	86	21,027	0	2	1,385	372,074	47	0	614	921	23,734	492,166
24 CRP	23,931	3,798	520,497	2,598,494	1,575,881	130,748	1,875,427	79,887	21,784	37,139	358,843	13,304	0	655,109	413,230	492,669	8,598,438
25 NMM	1,278	0	295	23,695	183,098	18,219	53,143	4,081	517	2,117	4,398	1,592	0	28,120	12,208	21,318	352,067
26 I&S	4,888	697	3,051	113,351	3,284,648	19,983	828,640	37,702	929	15,396	9,192	1,401	0	21,752	38,979	92,517	4,250,767
27 NFM	87,789	3,844	28,311	83,898	147,808	29,981	91,175	542	4,472	839	131,033	572	0	34,047	38,120	53,212	713,196
28 FMP	12,536	21	20,282	184,812	247,974	8,890	102,754	740	1,782	4,333	16,705	1,959	0	242,783	44,208	17,750	905,108
29 TRN	2,232	161	23,302	543,970	995,472	4,032	577,210	7,578	1,139	5	17,145	659	0	1,836	77,480	26,947	2,278,171
30 OME	58,737	843	104,959	2,428,075	8,981,322	884,030	4,331,804	902	43,957	2,838	413,974	20,384	0	2,248,523	1,080,697	562,398	18,961,222
31 OMF	4,937	51	1,479	32,405	136,675	7,593	45,280	987	9	54	1,880	885	0	394,929	78,504	11,441	714,987
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	279,374	0	0	279,374
33 CON	425	357	161	3,199	734	1,720	25,731	18	54	56	828	24	0	4,374	450	445	38,373
34 T&T	16,975	8,914	17,209	238,714	97,220	23,511	78,438	1,863	7,556	300	49,348	4,370	0	37,248	48,510	3,757	633,933
35 OSP	38,005	40,977	58,790	963,335	301,970	53,889	871,357	6,828	12,325	2,304	90,576	8,933	0	277,553	124,811	106,360	2,958,616
36 OSG	2,500	1,703	1,197	20,898	2,210	2,045	28,393	24	143	35	2,282	202	0	4,051	2,777	637	86,697
37 OOO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,102,132	658,545	3,103,299	9,399,890	15,170,082	1,504,398	9,581,410	855,315	590,483	124,105	1,902,092	137,755	0	5,849,028	3,254,143	1,998,553	55,211,001

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = HK

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	14	0	0	0	0	0	0	0	22	0	0	0	0	38
2 WHT	0	0	3,183	18,882	0	0	1,002	0	0	0	0	0	77	0	0	0	22,924
3 GRO	144	0	5,552	212	0	0	11	0	3	0	8	13,879	1,254	0	14	923	21,800
4 NGC	37,878	4,885	18,453	259,580	34,832	20,708	17,880	0	12,234	17,023	89,181	40,488	188,200	0	38,951	204,545	958,185
5 WOL	2,328	8,898	0	0	0	118	2,890	0	577	0	0	15	95	0	0	1,483	17,498
8 OLP	4,287	3,574	4,982	23,308	10,771	2,778	88,042	11,987	2,047	112	18,845	8,754	387,501	0	1,889	38,230	581,085
7 FOR	189	2	338	1,103	58	5	78	0	25,955	0	2,014	8,099	1,110	0	210	5,371	44,529
8 FSH	25,383	3,721	8,081	20,289	88,588	4,334	5,331	15,123	1,950	4,908	33,573	30,382	93,491	0	13,419	104,187	432,888
9 COL	73,872	4	8	3	108	0	282	22	0	0	0	0	47,047	0	43	138,751	258,141
10 OIL	0	0	0	0	0	0	0	32,943	0	0	0	0	0	0	0	0	32,943
11 GAS	2	0	0	87	803	13	125	1,884	0	12,805	10,434	0	2,152	0	0	0	28,184
12 OMN	17,373	107	8,323	208,891	43,787	0	351,878	4,888	598	0	5,070	88,381	88,081	0	2,272	488,250	1,273,414
13 PCR	19,341	0	3	3,118	0	0	4	0	0	0	3	72,408	38,083	0	13	88	131,039
14 MET	17,073	14,218	4,018	72,828	9,548	173	28,310	5,898	33	381	8,322	2,749	155,888	0	270	72,889	392,152
15 MIL	13,489	8,148	328	12,510	63	0	38,341	0	2,519	135	5,827	1,150	11,524	0	86	1,208	91,112
18 OFF	47,523	8,800	5,227	100,890	148,280	39,498	91,444	4,548	14,808	4,789	54,438	33,423	183,987	0	32,940	22,418	773,586
17 B&T	5,848	483	5,097	217,820	13,334	4,214	130,884	10,782	335	1,354	52,735	2,714	182,827	0	3,258	0	811,882
18 TEX	15,048	5,340	7,702	84,882	701,899	521,375	180,308	31,499	14,818	4,298	23,903	19,455	1,829,448	0	848,108	138,178	4,225,854
19 WAP	2,414	129	1,047	23,718	82,810	21,108	182,287	28,027	2,471	8,340	6,704	19,014	934,428	0	49,257	28,589	1,388,144
20 LEA	1,302	3,718	4,484	42,787	40,823	58,559	248,808	3,853	2,334	2,583	8,931	24,818	38,598	0	102,982	81,975	639,830
21 LUM	1,844	2,758	8,817	32,038	18,279	14,538	50,089	84,109	20,537	28,241	47,288	12,480	80,888	0	50,804	0	438,388
22 PPP	11,088	11,892	63,021	128,822	259,842	113,158	93,884	23,827	8,282	1,250	24,885	11,947	109,343	0	78,383	92,591	1,030,573
23 P&C	8,135	5	241	0	18,355	8,189	5,110	0	1,988	10,734	547,772	358	172,382	0	7,418	3,878	784,348
24 CRP	39,587	3,452	38,271	495,348	511,447	139,141	818,548	22,178	27,428	21,010	155,171	58,785	448,702	0	480,231	43,211	3,081,484
25 NMM	4,027	58	874	30,831	129,380	15,188	121,235	4,109	4,295	4,110	10,980	8,582	88,580	0	79,170	30,982	508,482
28 I&S	8,395	3,818	2,932	17,075	295,928	52,883	135,392	8,308	11,085	8	18,308	11,980	143,633	0	49,478	281,018	1,017,198
27 NFM	730,584	3,081	37,871	41,805	110,974	42,222	71,982	844	4,558	358	24,355	1,995	154,581	0	92,822	15,809	1,333,378
28 FMP	18,345	818	341,887	589,057	128,548	54,231	184,774	1,772	10,088	823	24,880	8,384	108,477	0	58,182	0	1,503,824
29 TRN	45,785	419	748	144,851	435,270	85,437	222,977	8,844	1,458	527	21,729	2,084	141,897	0	37,598	33,987	1,181,001
30 OME	84,227	8,870	55,080	1,132,739	3,532,330	898,718	1,187,197	2,007	273,979	100,523	754,524	78,817	1,829,331	0	1,084,058	107,285	10,885,483
31 OMF	55,842	487	8,841	128,735	284,178	118,838	188,597	14,888	5,843	2,842	85,120	11,022	0	0	127,737	22,434	1,008,880
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	1,278	0	0	0	1,278
33 CON	2,843	284	171	7,878	1,758	12,522	84,953	37	219	528	3,853	530	2,198	0	2,422	30,882	130,574
34 T&T	113,390	7,804	19,895	815,405	249,909	183,857	212,878	4,038	33,027	3,081	309,389	105,833	285,822	0	280,558	301,540	2,705,581
35 OSP	39,488	5,739	11,234	407,728	127,439	88,928	387,879	2,357	8,845	3,883	93,228	35,521	93,591	0	118,510	230,109	1,834,455
38 OSG	9,910	882	813	31,885	3,371	9,491	42,488	31	371	212	8,488	2,805	2,438	0	9,529	18,002	140,558
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,434,488	108,329	881,388	4,872,945	7,240,855	2,288,288	4,908,942	337,111	492,034	230,518	2,403,283	888,329	7,298,205	0	3,824,385	2,502,447	39,088,503

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = TAI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	47
2 WHT	0	0	19,291	181,528	0	0	0	0	0	0	0	0	0	0	0	0	180,818
3 GRO	40,828	0	640	818,441	0	0	5	39	0	0	0	4,774	31	0	0	0	884,556
4 NGC	57,351	954	9,291	881,813	48,881	43,214	13,381	45,882	120,858	20,304	72,755	108,358	172,280	1,973	0	8,788	1,587,722
5 WOL	184,737	12,280	54	52	49	0	1,355	0	0	0	0	0	0	0	0	0	178,537
6 OLP	8,518	8,310	90,284	233,454	58,180	517	12,179	542	492	492	14,107	7,445	88,501	4,585	0	8,010	507,573
7 FOR	1,448	852	1,207	253	248	0	1,311	820	208,553	7,289	2,288	3,524	1,295	0	0	3,384	233,032
8 FSH	8,730	885	7,292	12,518	21,802	25,492	8,452	5,238	2,097	2,715	5,912	3,848	31,831	8,941	0	1,354	145,907
9 COL	294,324	0	57,278	280,154	58	42	32	18,887	539	0	0	0	5	0	0	0	829,297
10 OIL	11,783	0	38,117	21,844	0	0	0	170,543	51,353	0	0	0	0	0	0	0	291,750
11 GAS	2	0	0	2,033	281	0	54	0	1,387	123	0	18,875	0	0	0	0	23,735
12 OMN	79,725	2,133	78,848	53,845	41,809	12,028	28,189	3,929	3,309	18,203	1,281	14,022	23,130	1,975	0	2,283	358,477
13 PCR	0	0	0	175	0	0	0	0	0	0	0	1,089	0	0	0	0	1,244
14 MET	95,989	28,897	529	20,988	830	382	994	133	0	0	887	12	3	44	0	4	149,750
15 MIL	42,415	28,327	1,287	8,882	182	0	54,584	0	730	83	13,802	812	0	0	0	182	149,137
18 OFP	40,822	8,185	7,090	158,158	271,483	27,740	74,178	14,280	18,977	10,782	25,007	27,277	18,842	8,157	0	14,580	718,296
17 B&T	81	0	229	242,929	28,888	843	83,838	125	32	2,191	24,222	7	2,428	9,080	0	15,745	410,398
18 TEX	8,250	255	2,118	107,573	420,102	97,803	118,091	14,224	4,814	1,380	85,389	8,150	87,528	22,194	0	4,708	980,358
19 WAP	1,781	0	78	3,472	21,382	4,788	13,721	188	489	318	1,179	1,888	7,071	28,223	0	942	83,238
20 LEA	7,528	2,530	2,120	58,554	48,580	25,829	71,708	3,478	1,038	90	3,814	7,755	17,898	9,924	0	4,892	263,538
21 LUM	1,888	8,975	17,233	175,818	39,527	9,277	18,988	188,075	74,378	8,988	48,273	8,954	7,910	2,255	0	802	602,918
22 PPP	5,415	31,215	135,500	412,257	158,391	7,983	48,990	4,847	5,058	422	41,880	2,745	1,829	39,809	0	452	897,782
23 P&C	8,134	18	288	317,825	82,184	20,183	42,871	4,841	174	75	187,313	7	4,320	0	0	331	848,141
24 CRP	35,971	5,512	158,290	2,028,041	1,814,948	112,789	958,138	22,531	28,710	12,801	225,153	43,778	73,184	24,881	0	58,125	5,898,389
25 NMM	2,822	20	1,399	58,059	251,218	15,888	78,303	12,219	2,219	877	8,547	3,513	5,404	841	0	7,499	444,825
28 I&S	15,181	2,218	14,720	180,584	1,803,583	107,887	189,911	10,147	4,331	1,343	10,898	1,394	18,583	13,179	0	4,571	2,188,512
27 NFM	292,139	27,872	80,832	107,889	378,815	44,834	82,942	5,323	19,805	87,594	73,877	3,028	48,373	13,515	0	21,512	1,284,228
28 FMP	3,407	1,288	40,085	3,488,589	291,888	17,357	90,387	1,850	1,784	1,402	22,149	2,799	5,052	21,818	0	2,480	3,972,084
29 TRN	880	54	81,757	877,892	990,112	29,390	1,090,988	838	287	809	105,073	5,510	407	73	0	141	3,184,251
30 OME	34,814	4,029	49,138	3,945,313	8,007,343	482,897	1,728,834	3,782	132,877	17,838	828,880	111,349	42,179	190,819	0	40,234	15,399,484
31 OMF	17,890	22	4,298	111,594	280,471	45,938	38,559	2,887	2,303	1,987	10,383	3,438	13,229	15,229	0	2,200	528,208
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	188	38	17	2,043	288	485	5,288	4	23	34	205	27	14	124	0	9	8,783
34 T&T	182,250	21,993	44,814	3,735,875	889,181	182,574	385,127	10,382	80,228	4,443	398,055	122,528	37,898	25,848	0	48,105	6,137,093
35 OSP	81,240	21,248	32,578	3,188,380	587,389	78,020	822,487	7,780	27,503	7,179	152,774	52,642	17,788	40,475	0	80,153	5,237,580
36 DSG	20,788	3,254	2,403	250,877	15,303	10,952	102,970	104	1,175	402	14,182	4,390	473	2,177	0	4,892	434,343
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,581,494	217,170	972,773	21,858,487	18,370,318	1,384,879	8,279,791	551,138	795,900	215,843	2,155,833	572,792	701,032	478,875	0	313,088	54,209,898

Table A1: Imports by source, destination and commodity (\$US'000)

Destination = RoW

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	20	0	273	47,579	0	101	9,490	0	0	0	0	3,110	0	0	0	98,040	158,903
2 WHT	1,078,090	478	1,885,349	3,745,509	0	18	1,274,813	0	0	0	158	0	0	0	0	480,892	8,423,071
3 GRO	88,190	5,449	140,912	3,820,711	0	43	1,131,995	0	30	98	1,323	17,835	200	0	0	835,885	5,842,250
4 NGC	153,337	89,183	147,020	2,459,189	15,287	7,328	2,821,719	358,373	432,438	30,439	885,720	188,302	51,434	2,514	245	11,527,990	18,950,494
5 WOL	1,208,185	301,488	0	748	0	0	85,338	0	0	0	0	0	0	0	280	401,384	1,977,362
6 OLP	255,081	40,474	99,258	775,181	3,301	897	1,088,585	134	841	303	4,425	848	52,495	380	3	1,432,883	3,754,866
7 FOR	853	288	8,215	10,997	219	28	284,018	272	80,855	412	10,431	100	0	2	0	887,768	1,082,223
8 FSH	704	8,099	58,921	72,973	102,729	20,122	489,505	583	1,830	4,421	15,138	3,058	8,918	390	9	1,154,152	1,941,528
9 COL	535,383	81	124,891	855,198	333	12	149,378	1,783	0	0	295	39	0	0	0	1,048,733	2,718,082
10 OIL	7	0	0	11	0	0	407,183	22,544	104,071	0	0	0	0	0	0	5,129,532	5,683,349
11 GAS	85	8	184	218,803	72	182	283,488	893	758	3,959	5,520	27	115	0	0	1,130,849	1,624,318
12 OMN	153,755	1,173	1,173,083	808,500	50,522	4,797	5,773,182	7,288	3,248	8,012	22,018	113,870	18,103	3,928	125	18,855,240	28,998,618
13 PCR	0	0	0	881,855	158	528	113,798	0	0	0	1,110	1,059,884	0	0	110	195,508	2,052,737
14 MET	188,020	282,839	28,442	592,312	2,291	513	1,848,719	17	2,085	3	17,484	2,881	1,834	448	4	1,053,772	3,997,240
15 MIL	95,853	489,893	101,109	317,893	20	80	2,793,974	2,859	2,251	1	81,025	1,978	3	713	0	545,517	4,412,788
18 OFP	181,420	37,499	240,582	3,988,858	151,513	70,484	7,319,757	158,921	1,010,700	58,234	412,248	199,303	17,980	12,130	8,012	12,931,320	28,758,919
17 B&T	70,789	4,829	8,334	1,188,388	17,044	9,729	2,595,508	3,103	11,529	8,827	119,274	984	1,351	20,107	115	998,125	5,055,814
18 TEX	28,427	8,798	102,774	1,894,403	1,395,503	1,787,857	8,279,744	113,880	22,385	3,713	238,289	222,500	507,158	382,994	84,890	9,328,944	24,377,940
19 WAP	5,337	915	4,287	1,131,329	40,494	305,113	1,452,148	58,732	14,343	44,848	102,978	228,557	787,322	898,617	3,883	4,850,804	9,528,288
20 LEA	38,424	3,813	17,112	430,056	15,182	488,948	3,293,498	3,428	1,048	2,258	29,388	59,489	185,980	49,939	3,282	3,807,589	8,407,347
21 LUM	8,985	10,801	113,308	1,140,299	83,058	53,435	4,505,753	322,888	110,178	28,725	292,038	35,294	15,314	8,484	1,541	5,484,527	12,190,385
22 PPP	35,385	59,449	718,783	2,872,388	287,015	119,258	8,328,197	33,582	15,454	893	119,384	28,580	10,830	80,304	5,888	11,391,030	22,083,159
23 P&C	583,498	30,797	40,589	1,729,013	78,742	78,229	5,991,721	0	2,487	38,845	824,108	51,013	13,549	1	8	19,308,730	28,573,318
24 CRP	135,732	54,178	573,948	13,172,430	3,131,548	1,173,855	41,312,050	82,788	80,207	42,771	822,778	219,821	240,188	108,437	18,859	28,941,870	87,908,854
25 NMM	19,083	7,538	27,409	588,401	388,020	98,789	4,827,088	98,485	35,752	2,308	81,884	25,841	53,890	11,898	1,702	2,218,988	8,223,149
26 I&S	107,945	21,407	150,139	1,742,474	4,092,517	828,984	12,475,720	7,921	44,719	228	109,076	32,709	14,844	4,201	1,233	14,780,010	34,213,929
27 NFM	172,978	5,752	243,957	838,053	119,584	78,128	4,291,988	19,899	45,089	820	83,805	5,753	13,428	8,448	451	9,171,151	15,088,819
28 FMP	94,185	28,215	413,335	2,188,012	873,598	538,027	9,207,912	774	25,831	2,111	188,825	38,313	125,410	81,449	1,551	11,174,860	24,958,077
29 TRN	117,880	7,433	538,935	14,577,310	14,288,890	1,839,175	29,081,920	3,051	9,722	519	588,482	18,302	10,823	2,079	351	18,880,420	77,745,071
30 OME	384,010	52,828	1,244,642	31,879,990	17,898,980	2,820,198	78,118,890	21,888	202,849	9,963	1,842,915	104,331	474,348	840,349	49,481	48,152,780	181,998,078
31 OMF	748,119	4,438	35,203	1,423,583	890,797	298,220	8,707,350	18,280	20,480	8,474	129,318	71,118	248,831	258,125	3,810	4,394,081	15,049,984
32 EGW	0	0	0	0	0	0	34,910	0	0	0	0	0	0	0	0	50,234	85,144
33 CON	398	204	18	3,082	99	4,758	378,470	1	8	91	139	18	8	587	1	1,247,824	1,835,879
34 T&T	74,852	15,053	24,458	2,020,927	208,783	105,388	418,901	1,187	14,883	318	102,774	87,323	0	5,044	1,420	13,150,550	16,207,840
35 OSP	11,895	11,238	10,428	1,182,485	70,484	19,411	1,817,192	522	1,399	859	12,230	9,938	1,384	9,892	332	13,118,880	18,258,115
38 OSG	9,577	3,240	898	89,820	830	4,704	278,421	1	31	25	1,298	850	12	352	27	780,270	1,189,756
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8,545,788	1,583,811	8,255,558	98,224,070	43,923,348	10,133,092	247,028,039	1,335,129	2,297,485	295,479	8,583,408	2,787,799	2,855,116	2,545,784	184,931	272,513,811	707,090,428

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = Aus																	
	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 FDR	0	43	0	30	0	0	2	0	0	0	0	0	0	0	0	19	94
2 WHT	0	22,867	0	0	149,323	23,003	37	156,538	56,298	120	19,883	12,412	277,848	0	0	898,034	1,717,963
3 GRO	0	2,459	18	48	106,779	8,220	24,287	103	2,856	486	1,673	1,850	20,838	136	38,383	76,214	287,472
4 NGC	5	28,819	17,537	20,108	137,355	52,471	189,243	31,391	32,182	15,975	47,289	18,181	16,781	37,120	58,508	143,634	844,715
5 WOL	0	378	2,789	220,672	632,356	216,202	1,164,020	2,363	36,620	15	1,181	27,681	250,331	2,273	180,998	1,123,322	4,041,390
6 OUP	3,803	24,278	546	4,788	118,234	39,053	229,080	7,370	7,852	3,570	6,489	3,723	17,943	4,184	8,314	235,066	712,004
7 FOR	0	735	8	60	47	0	154	4	0	0	313	0	0	170	1,303	589	3,390
8 FSH	68	1,230	1,030	117,136	214,672	2,686	22,389	18	233	82	3,925	2,287	610	24,500	9,289	847	400,680
9 COL	0	314	0	51,213	1,794,605	318,833	514,599	38,822	18,443	14,159	800	4,011	6,124	69,441	278,889	481,146	3,556,178
10 OIL	0	78,044	0	252,980	28,889	22,226	0	20,183	0	52,486	66,148	6,033	0	0	11,085	8	558,033
11 GAS	0	41	0	3,731	139,595	0	1,425	12	0	0	15	0	0	2	2	73	144,884
12 OMN	5,308	12,860	38,790	203,878	1,545,682	233,080	748,183	2,519	39,085	2,517	7,261	17,838	80,321	16,331	74,842	132,435	3,159,089
13 PCR	0	4,245	164	0	82	0	2,377	0	72	0	871	0	0	19,181	0	0	27,102
14 MET	18	5,855	95,718	744,556	612,361	81,180	80,381	4,050	13,481	7,446	13,530	461	11,737	16,545	80,015	153,008	1,823,489
15 MINL	0	1,547	691	13,856	77,349	989	11,045	11,375	28,284	46,359	54,059	18,889	7,652	13,307	41,804	88,915	417,361
16 OEP	150	111,133	118,700	88,691	318,524	104,132	71,557	10,949	97,764	24,398	55,574	6,791	27,459	49,370	39,831	149,788	1,272,842
17 BAT	27	29,300	13,943	56,296	40,898	3,161	30,544	3,841	3,840	13,072	3,434	380	2,430	5,928	81	87,098	275,757
18 TEX	249	59,768	6,528	15,117	43,515	33,056	27,242	2,825	3,386	510	5,063	1,434	61,518	14,778	6,138	27,817	308,874
19 WAP	52	12,230	1,350	17,828	2,851	29	3,828	144	86	70	1,194	71	483	2,371	1,729	5,241	49,475
20 LEA	30	11,538	3,943	13,086	5,705	8,424	33,880	108	40	288	714	284	12,475	1,278	7,393	35,771	135,475
21 LUM	30	20,442	492	5,134	311,880	3,417	7,903	485	285	33	3,256	356	1,645	1,846	1,802	6,021	384,530
22 PFP	340	81,578	1,599	14,944	10,140	13,143	6,846	5,883	7,723	2,861	8,779	4,270	13,789	10,518	5,144	30,585	220,782
23 PAC	1,260	46,887	7	34,708	28,219	11,059	128	12,772	3,704	2,319	54,359	11,486	15,367	7,847	5,766	511,203	746,890
24 CRP	625	231,844	33,822	183,890	80,296	38,749	189,852	58,892	38,683	25,825	89,487	28,348	22,737	37,582	34,175	117,321	1,189,419
25 NMM	140	25,987	2,859	15,815	7,563	2,321	5,270	2,240	1,396	1,589	3,818	2,057	1,213	3,826	2,881	16,484	84,688
26 IAS	32	55,373	6,882	135,073	71,293	52,820	4,822	31,603	23,847	13,086	33,528	14,754	4,434	6,078	14,433	83,303	590,941
27 NFM	2,814	201,027	139,180	886,810	1,715,410	352,889	386,136	138,442	58,167	34,434	451,768	128,680	63,387	684,087	277,553	149,515	5,458,478
28 RMP	143	64,862	7,893	28,319	586,348	43,508	82,588	18,825	6,888	3,890	19,862	10,620	11,910	17,429	3,237	81,392	878,103
29 TRN	4,334	188,135	8,616	234,794	51,837	10,331	138,362	10,288	8,898	4,428	19,776	8,625	2,221	45,537	856	113,269	851,330
30 ONE	6,087	373,858	28,352	238,105	65,018	51,118	318,506	47,804	22,718	17,080	111,735	25,627	57,008	62,338	33,585	346,896	1,805,828
31 CMF	182,861	134,872	22,914	253,585	109,831	2,218	258,548	7,167	13,809	7,809	79,217	3,978	4,784	53,919	17,142	703,128	1,655,980
32 EGW	25,884	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,884
33 CON	0	4,555	51	574	1,403	389	14,547	128	771	288	75	48	425	2,843	188	388	28,437
34 BAT	0	383,874	23,802	253,373	1,512,483	133,683	517,466	89,057	42,238	24,883	58,442	38,344	18,975	113,380	182,250	74,852	3,456,891
35 OSG	0	187,877	18,794	230,136	403,277	46,051	189,022	46,120	54,439	7,538	81,055	17,559	36,005	39,488	81,240	11,895	1,430,283
36 OSG	0	159,102	4,388	3,441	30,585	23,420	37,181	21,947	39,480	723	15,335	3,334	2,500	8,910	20,788	9,577	378,741
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	214,056	2,522,733	599,909	4,125,448	11,104,355	1,812,706	5,311,881	787,484	881,387	327,813	1,317,842	423,653	1,088,868	1,380,141	1,508,340	5,987,774	38,242,281

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = NZ

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	441	441
3 GRO	944	0	7	0	49	0	4,722	0	210	0	0	0	0	0	0	4,899	10,821
4 NGC	32,105	0	24,490	88,264	187,525	192	255,283	2,841	2,500	1,138	8,389	747	826	4,728	924	83,471	851,003
5 WOL	84,729	0	4,419	52,319	80,208	24,823	311,342	146	205	5	184	2,151	473,121	8,510	11,908	280,008	1,314,984
8 OLP	104,807	0	12,847	50,281	44,055	85,074	241,290	6,789	1,899	110	885	3,330	8,405	3,404	8,010	37,281	584,037
7 FOR	1,101	0	0	29	44,543	19,584	854	0	0	288	139	0	10,979	2	592	241	78,312
8 FSH	44,813	0	4,803	153,582	197,390	13,908	11,721	78	329	0	2,514	8,850	4,738	3,533	840	7,434	452,011
9 COL	2,513	0	0	0	14,825	0	1,150	0	2	0	0	0	0	4	0	55	18,548
10 OIL	40,442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,442
11 GAS	249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	258
12 OMN	851	37	0	548	23,576	1,184	554	719	282	128	477	52	99	97	1,833	1,049	31,548
13 PCR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 MET	18,874	0	92,858	551,789	131,518	17,381	344,712	2,898	5,813	128	16,389	270	2,307	13,541	27,523	280,380	1,483,754
15 MIL	31,485	0	9,394	48,779	98,798	918	214,254	34,827	73,208	40,878	30,598	20,817	12,209	5,988	27,507	459,897	1,108,231
18 OFF	105,339	0	3,839	15,994	78,001	9,204	18,413	18,459	13,428	2,331	8,877	853	25,538	8,250	7,852	34,778	348,864
17 B&T	18,183	0	492	3,914	1,883	18	4,078	10	22	4	100	28	11	473	0	4,573	33,587
18 TEX	138,584	32	2,823	10,145	2,220	510	5,405	578	1,018	1,418	814	3,081	1,927	5,244	250	8,878	178,501
19 WAP	11,535	2	81	7,357	1,346	0	57	0	2	0	88	0	0	127	0	899	21,453
20 LEA	51,441	48	3,370	8,959	10,948	8,870	50,248	18	24	75	138	39	556	3,649	2,485	3,744	142,803
21 LUM	122,923	0	988	14,175	40,891	1,507	2,125	48	56	2	2,920	2	1,349	2,525	8,387	8,887	204,544
22 PPP	214,115	0	1,145	11,848	89,107	24,988	13,087	26,851	10,174	10,018	18,442	7,957	31,883	10,707	28,564	49,727	547,822
23 P&C	28,852	0	0	1,842	23,133	2	0	0	38	0	12	0	0	5	15	27,542	79,041
24 CRP	142,940	10	8,083	158,020	91,243	13,831	51,831	3,187	1,727	1,884	2,778	1,250	3,478	3,181	5,047	45,318	531,572
25 NMM	14,253	0	82	8,388	1,283	0	752	119	82	22	119	32	0	53	19	8,304	31,470
28 I&S	30,235	9	8,859	32,889	11,117	28	2,789	74	5,388	1,853	1,030	24	838	3,313	2,031	17,908	116,143
27 NFM	85,327	0	2,298	8,880	384,209	3,511	7,878	1,114	1,454	519	22,908	2,819	3,336	2,803	25,523	4,811	535,287
28 FMP	73,519	2	8,817	17,098	13,125	822	10,549	108	549	891	2,418	194	19	588	1,178	21,928	149,380
29 TRN	19,082	18	1,741	27,240	1,085	102	8,358	187	98	27	717	88	157	409	53	7,011	64,356
30 OME	219,453	139	4,877	47,245	4,490	457	35,728	3,451	2,504	929	5,974	634	791	8,441	3,777	48,430	383,320
31 OMF	53,437	0	178	3,471	521	48	4,389	71	215	5	871	10	49	449	21	4,191	87,728
32 EGW	0	8,752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,752
33 CON	4,949	0	25	299	348	85	7,388	30	280	84	12	9	357	284	38	204	14,350
34 T&T	220,829	0	7,410	82,543	234,599	14,874	184,248	14,588	8,910	4,807	5,882	5,034	8,914	7,804	21,993	15,053	818,890
35 DSP	183,459	0	12,881	182,485	135,588	10,957	130,029	14,721	24,889	3,180	17,881	4,889	40,977	5,739	21,248	11,238	759,719
38 OSG	54,002	0	1,772	1,454	8,155	3,335	15,311	4,192	10,805	182	2,002	553	1,703	882	3,254	3,240	108,823
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2,088,750	7,048	211,448	1,548,815	1,929,342	233,428	1,918,828	134,508	165,830	70,883	152,898	81,252	832,144	103,451	208,889	1,455,888	10,916,380

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = CAN

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	38	0	0	1,153	12	0	533	0	0	0	0	0	0	0	0	284	2,000
2 WHT	0	0	0	84,519	241,386	6,749	189,324	48,948	12,484	8,895	433	5,719	1,768,189	2,932	17,881	1,787,152	4,120,709
3 GRO	82	3	0	93,874	97,616	1,390	20,891	23	241	0	0	8	13,838	4,852	570	128,535	381,803
4 NGC	1,884	439	2	385,517	495,134	3,304	207,538	452	5,430	817	7,798	502	2,952	15,438	8,717	140,929	1,278,448
5 WOL	0	0	0	885	583	0	787	0	0	0	0	0	0	0	50	0	2,295
6 OLP	8,978	1,838	0	598,438	30,547	40,151	98,115	357	80	897	141	478	3,853	4,592	83,019	83,288	980,383
7 FOR	124	1,520	0	71,088	184,345	11,042	11,409	0	15	0	237	18	17,892	287	1,089	5,347	304,200
8 FSH	2,175	128	5	1,068,081	348,174	3,219	180,733	39	85	3	290	374	1,358	7,383	8,879	55,175	1,883,880
9 COL	1,181	7	0	118,222	1,047,433	185,385	81,343	0	7	0	11	0	4	7	48,172	107,338	1,581,122
10 OIL	0	0	0	3,381,713	17,985	1,328	5,893	0	4,235	0	0	7,515	0	0	31,007	0	3,449,855
11 GAS	10	0	0	3,080,109	0	0	958	0	0	0	0	0	0	0	0	158	3,081,238
12 OMN	68,571	12,902	57	748,577	888,828	122,140	1,150,332	28,770	9,745	4,710	5,472	24,858	33,450	7,148	85,801	1,008,210	3,963,387
13 PCR	18	0	0	109	0	0	32	0	0	0	0	2	0	3	0	8	172
14 MET	4,008	1,958	0	582,885	135,014	533	42,978	102	271	41	81	2	253	3,893	487	28,731	798,744
15 MIL	1,478	0	0	18,108	8,088	118	18,090	4	2,879	8,807	528	2,875	123	307	1,212	97,286	158,473
16 OFF	41,817	11,478	0	835,112	283,833	22,285	242,597	35,882	2,485	8,261	3,388	3,757	5,477	4,848	8,578	228,057	1,843,417
17 B&T	1,112	103	0	554,277	38,513	18	9,457	17	12	8	581	97	83	4,847	217	8,101	817,440
18 TEX	27,743	13,402	24	421,223	4,818	26,417	73,128	1,870	3,984	8,105	3,885	3,849	25,157	7,538	2,071	100,594	721,388
19 WAP	507	48	7	181,422	1,885	47	5,887	23	5	78	42	0	28	1,024	75	4,188	195,283
20 LEA	785	178	131	247,028	8,001	5,433	32,850	34	2	21	52	35	1,502	4,389	2,075	18,749	319,081
21 LUM	95,871	6,949	3	4,958,340	774,451	7,172	732,403	134	128	183	1,028	222	30,807	8,128	15,482	101,880	6,729,179
22 PPP	150,247	9,498	0	9,270,055	821,901	118,740	1,811,785	59,233	22,508	18,228	32,554	33,021	248,081	58,855	121,812	847,055	13,219,328
23 P&C	239	90	0	1,478,084	40,083	43	22,734	1,007	7	35	148	95	2,730	207	245	34,887	1,581,574
24 CRP	99,843	22,753	21	5,307,248	351,991	218,485	544,845	105,788	41,787	29,732	47,021	30,310	487,818	34,405	140,502	515,989	7,958,187
25 NMM	3,078	2,328	0	777,375	9,839	8,481	27,247	480	110	415	385	982	288	875	1,258	24,840	857,527
26 I&S	8,753	5,899	0	1,987,470	19,183	19,797	193,028	529	125	785	2,812	44,825	2,742	2,838	13,233	134,973	2,434,550
27 NFM	7,071	10,323	1	4,380,885	373,718	82,744	477,882	11,284	11,943	8,485	40,525	32,243	23,853	34,045	72,758	219,313	5,784,831
28 FMP	12,517	2,481	277	2,792,587	453,805	13,909	324,183	1,488	1,282	402	23,944	8,424	18,233	307,333	38,038	371,581	4,388,511
29 TRN	78,789	3,072	3	29,138,020	48,778	9,889	348,780	2,425	7,594	382	15,512	1,089	22,779	731	78,920	530,225	30,285,048
30 OME	132,389	28,381	1,052	12,223,520	134,181	87,858	1,399,570	18,081	11,550	8,154	48,879	30,182	97,227	51,023	45,518	1,142,028	15,439,333
31 OMF	23,812	1,244	82	381,807	15,984	1,281	72,104	380	445	187	2,212	319	1,388	8,410	4,028	33,048	544,528
32 EGW	0	0	0	1,262,488	0	0	0	0	0	0	0	0	0	0	0	0	1,262,488
33 CON	219	48	0	1,744	139	30	3,427	9	28	12	2	4	181	171	17	18	8,028
34 T&T	41,888	10,195	0	2,088,245	402,471	28,734	327,185	18,301	4,178	3,017	4,413	9,328	17,209	18,885	44,814	24,458	3,021,909
35 OSP	23,454	7,700	0	3,074,130	175,781	18,218	185,758	13,957	8,821	1,509	10,025	8,819	59,790	11,234	32,578	10,428	3,848,188
36 OSG	3,733	2,087	0	13,253	3,845	2,378	11,108	1,815	1,845	42	547	373	1,187	813	2,403	888	48,216
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	837,778	158,908	1,883	91,840,112	7,243,882	1,033,430	8,883,224	347,285	154,278	101,828	252,282	247,728	2,855,820	801,754	887,087	7,579,273	122,804,248

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = USA

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	9	37	12,752	0	12	8	105,784	0	0	297	10	38	0	14	0	45,857	184,784
2 WHT	0	0	1,807	0	518,298	295,150	85,553	29,008	8,410	140,589	7,174	19,371	984,844	17,880	152,890	3,542,570	5,808,701
3 GRO	117	2,458	73,084	0	1,885,308	447,434	387,333	4,817	18,805	3,707	9,458	588	274	193	584,410	3,304,383	8,882,184
4 NGC	81,804	24,214	1,525,289	2,893	2,578,338	788,380	3,377,023	174,980	47,830	48,254	87,248	79,578	59,844	248,159	824,058	2,351,178	12,254,900
5 WOL	1,083	0	700	0	212	509	3,833	0	5	0	0	0	294	0	49	709	7,174
6 OLP	8,114	5,584	291,780	75	840,485	739,231	448,057	18,839	3,224	2,952	3,471	15,754	39,942	21,871	219,079	727,837	3,184,334
7 FOR	48	754	185,810	0	1,517,075	290,049	98,884	1,028	59	9	1,718	188	72	1,004	230	9,811	2,108,733
8 FSH	3,379	72	228,130	2	1,777,421	187,184	187,989	281	349	102	2,881	75,502	1,154	18,978	11,708	88,290	2,543,400
9 COL	97	24	884,338	0	885,054	175,908	1,580,784	517	8	8,218	414	152	0	2	227,391	759,032	4,299,918
10 OIL	28	0	79,098	0	0	0	8,795	0	0	0	0	0	0	0	19,180	9	107,108
11 GAS	888	30	88,877	0	159,817	2,079	2,773	37	21	58	191	78	141	78	1,777	194,021	448,842
12 OMN	33,187	10,427	585,171	38,039	775,777	171,827	878,828	18,459	4,837	15,050	21,140	47,607	32,439	182,409	47,064	717,567	3,873,247
13 PCR	1,400	844	34,939	0	210	23	84,548	11,859	0	43,079	1,419	0	53	3,004	188	857,180	818,824
14 MET	2,911	850	290,894	3	1,418,577	29,757	297,582	3,140	2,840	1,841	34,433	822	4,204	88,342	19,875	558,151	2,729,403
15 MIL	1,747	323	14,897	0	21,873	3,090	18,375	8,722	2,917	28,521	1,800	10,848	1,928	12,001	8,411	304,787	434,038
16 OFP	90,758	17,851	1,150,983	119	908,783	91,490	1,900,217	27,838	32,183	84,954	52,599	22,447	18,731	95,423	148,749	3,755,932	8,378,855
17 B&T	58,157	7,282	85,909	103	891,489	89,041	1,501,884	8,943	19,898	35,338	115,428	38,858	197,943	210,982	235,173	1,148,788	4,802,972
18 TEX	143,417	34,575	1,027,374	813	311,155	135,938	1,080,732	49,978	17,473	58,981	44,021	22,950	308,857	83,213	106,457	1,857,145	5,281,880
19 WAP	20,849	891	54,207	72	114,237	2,814	139,883	174	285	12,309	5,312	288	2,439	23,252	3,404	1,109,079	1,489,032
20 LEA	7,255	1,844	139,853	908	188,383	101,988	318,898	1,089	748	25,254	8,448	13,187	55,348	41,925	57,403	421,598	1,383,479
21 LUM	159,397	8,828	1,123,358	197	1,174,838	84,441	995,354	2,424	2,181	7,785	22,925	4,521	24,842	29,948	184,352	1,085,932	4,850,918
22 PPP	335,108	42,748	2,477,514	83	1,420,188	812,882	2,392,874	93,728	80,271	83,087	95,858	48,211	311,170	121,355	385,371	2,885,058	11,183,037
23 P&C	128,814	22,705	540,872	2	859,512	122,843	739,884	32,131	4,825	8,998	82,597	13,347	23,530	0	277,824	1,534,591	4,189,474
24 CRP	1,210,788	205,903	8,885,452	7,989	4,733,893	1,587,001	8,529,803	348,582	218,899	205,958	589,388	317,743	2,427,158	483,041	1,893,909	12,313,370	41,718,854
25 NMM	73,478	13,552	980,387	123	183,720	75,859	347,528	5,373	9,080	9,155	22,595	10,733	22,140	28,820	52,403	529,482	2,354,185
26 I&S	33,114	4,428	1,218,848	80	301,285	389,589	415,498	34,008	10,501	8,408	29,822	34,084	105,859	15,981	188,807	1,828,835	4,378,849
27 NFM	55,215	8,755	1,321,178	18	1,011,740	181,082	857,888	8,787	15,122	5,017	118,821	14,780	59,542	38,892	100,834	783,397	4,377,002
28 FMP	144,544	21,278	3,232,850	795	1,001,339	312,851	2,088,111	31,885	42,231	38,951	108,029	40,320	172,572	531,945	3,242,387	2,045,318	13,032,981
29 TRN	1,588,544	184,727	22,777,030	1,211	2,843,214	1,111,278	7,879,938	187,288	134,244	45,827	480,478	409,817	539,387	143,427	870,483	14,577,310	53,872,138
30 OME	3,191,229	575,744	23,908,740	73,142	9,892,588	4,039,721	33,729,540	724,813	1,580,151	873,832	3,800,895	1,072,139	2,320,101	1,082,368	3,789,889	30,549,710	121,182,389
31 OMF	1,005,541	31,738	1,070,845	2,238	920,399	107,348	2,281,298	3,833	11,880	8,882	359,528	18,918	30,512	119,331	105,074	1,348,713	7,401,852
32 EGW	0	0	417,749	0	0	0	0	0	0	0	0	0	0	0	0	0	417,749
33 CON	18,957	3,029	8,184	0	5,712	2,549	218,839	359	3,247	1,590	388	289	3,189	7,878	2,043	3,082	274,923
34 T&T	2,259,448	451,789	5,395,321	0	11,488,510	1,728,344	14,527,430	525,825	332,233	273,091	559,188	480,208	238,714	815,405	3,735,875	2,020,927	44,820,287
35 OSP	1,489,534	398,295	8,105,270	0	5,833,122	1,131,812	10,098,230	485,790	814,895	158,599	1,475,547	390,782	983,335	407,728	3,188,380	1,182,485	38,039,383
36 OSG	251,025	114,183	585,580	0	138,937	178,084	814,897	88,589	182,870	4,705	88,382	22,957	20,898	31,885	250,877	89,820	2,838,830
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12,375,545	2,190,791	88,535,983	128,859	55,953,429	15,114,318	98,157,129	2,884,318	3,579,278	2,212,950	8,207,581	3,200,809	8,980,842	4,888,048	20,830,343	93,889,711	418,885,910

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = JAP

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	2	18	0	0	17	0	0	0	0	0	0	0	0	0	38
2 WHT	0	0	0	0	0	284	10	0	0	0	0	0	0	0	0	0	304
3 GRO	4	0	0	18	0	43	50	0	0	21	0	0	0	0	0	0	134
4 NGC	2,744	2,400	17,718	37,885	178	12,554	25,805	1,788	2,113	1,317	7,928	5,885	3,151	34,225	48,294	14,030	218,574
5 WOL	0	0	0	0	0	339	772	0	37	0	0	0	0	0	48	0	1,198
8 OLP	280	48	312	3,088	308	15,425	21,119	1,538	41	1,080	881	2,582	2,182	10,451	58,453	2,873	118,709
7 FOR	1	0	0	88	0	5,908	3,740	28	3	0	10	13	39	53	228	180	10,290
8 FSH	2,518	8,630	7,372	118,931	810	13,812	48,879	1,187	4,842	28,945	22,487	114,489	8,484	86,291	21,078	92,178	557,802
9 COL	818	0	0	85,417	0	188	10	3,809	3	8,878	1,078	218	23	103	53	277	80,955
10 OIL	0	0	0	9,489	0	0	0	0	0	0	0	0	0	0	0	0	9,489
11 GAS	5	0	0	410	0	25	103	0	0	1,878	8	11	17	758	247	80	3,823
12 OMN	18,528	325	5,047	152,258	3,775	47,008	88,820	4,355	3,715	4,551	3,885	4,589	2,785	41,378	38,528	41,998	480,598
13 PCR	9	0	0	29	0	0	10	0	0	0	0	0	0	0	0	148	195
14 MET	42	4	818	2,810	1	812	410	88	3	10	1,205	133	3,075	9,284	902	2,083	21,840
15 MIL	5	0	0	158	0	43	402	81	50	0	177	2,989	33	82	181	18	4,180
18 OFP	22,282	5,828	35,195	206,338	345	24,789	140,081	13,483	12,917	15,822	40,178	29,874	34,580	145,873	285,488	137,588	1,129,925
17 B&T	2,871	118	2,088	41,783	78	1,448	8,232	812	808	4,583	5,889	728	7,229	13,334	28,888	15,851	131,808
18 TEX	181,898	38,283	82,152	885,158	3,640	541,378	857,508	85,742	82,553	83,518	208,357	79,854	898,384	887,507	411,805	1,387,278	8,050,794
19 WAP	7,104	834	10,520	284,477	187	3,213	53,803	281	881	1,088	12,138	877	18,529	80,839	20,830	39,875	532,848
20 LEA	4,874	810	9,488	48,228	515	134,428	50,070	448	888	18,882	8,585	1,888	35,857	38,801	45,838	14,875	414,173
21 LUM	7,817	3,138	8,950	238,203	285	24,233	47,728	5,928	8,419	1,588	5,425	5,174	25,288	18,075	38,088	58,888	484,052
22 PPP	100,800	23,142	40,419	503,420	148	103,258	258,838	23,488	38,558	18,045	107,585	38,985	148,735	258,843	158,824	240,888	2,053,814
23 P&C	3,487	1,428	2,042	33,005	52	112,218	18,157	15,188	9,858	2,287	28,828	14,975	24,438	17,353	58,788	83,782	407,888
24 CRP	519,283	88,084	278,812	3,584,838	3,874	1,887,833	2,353,750	488,580	273,388	198,487	548,747	538,255	1,558,105	505,742	1,883,588	2,825,244	17,835,878
25 NMM	82,483	10,403	82,001	818,228	310	288,305	250,488	33,188	18,484	88,151	118,713	48,532	181,058	127,848	248,413	332,023	2,804,730
28 I&S	280,772	84,140	212,888	2,780,332	5,158	1,380,984	247,414	435,875	285,984	134,821	477,870	717,585	3,228,233	282,827	1,585,705	3,882,221	15,882,898
27 NFM	88,483	3,878	52,882	422,277	1,421	280,843	84,535	31,743	50,534	23,084	183,031	55,481	148,158	108,738	372,811	107,870	1,975,843
28 FMP	185,778	18,403	118,405	1,812,208	2,830	283,322	518,897	68,887	55,578	37,888	248,481	182,883	245,208	125,138	288,812	788,150	4,735,322
29 TRN	2,145,085	374,078	2,413,705	30,452,820	12,908	488,158	8,348,154	588,171	334,308	282,888	721,234	885,801	988,800	434,452	888,251	14,082,300	84,515,071
30 OME	2,927,888	455,294	3,388,438	45,720,540	72,112	8,388,478	23,874,040	1,458,852	1,584,048	588,441	5,143,243	2,251,725	8,881,322	3,532,330	8,007,343	18,575,820	131,028,718
31 OMF	188,787	21,887	188,277	2,828,285	2,011	147,778	1,507,320	28,588	27,830	18,583	144,428	27,783	132,817	258,338	252,738	843,385	8,425,452
32 EGW	0	0	0	0	25,783	0	0	0	0	0	0	0	0	0	0	0	25,783
33 CON	1,873	345	75	1,887	0	384	15,017	78	481	185	82	75	734	1,758	288	98	22,888
34 T&T	385,888	81,232	118,528	2,470,271	0	437,420	1,771,782	205,871	88,158	50,247	158,550	212,082	87,220	248,808	888,181	208,783	7,422,200
35 OSP	188,180	81,587	134,738	3,285,828	0	220,888	847,734	140,431	188,275	22,480	322,012	138,803	301,870	127,438	587,388	70,484	8,707,588
36 OSG	11,532	8,044	3,318	5,178	0	11,830	18,855	7,044	12,888	227	8,421	2,774	2,210	3,371	15,303	830	108,403
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7,353,335	1,287,054	7,200,175	98,488,388	138,114	14,818,881	42,432,241	3,874,523	3,070,220	1,588,881	8,504,078	5,323,818	15,078,250	7,188,288	18,284,378	41,425,544	271,973,184

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = KOR

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	4	0	0	0	0	28	0	0	0	0	0	0	0	95	127
2 WHT	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	15	22
3 GRO	2	0	5	48	131	0	0	0	0	0	0	0	0	0	0	38	225
4 NGC	920	128	1,522	14,370	301,310	17	15,335	305	4,988	205	27,088	787	813	20,582	42,808	8,808	437,844
5 WOL	0	0	0	0	3,472	0	0	0	0	0	0	0	0	114	0	0	3,586
6 OLP	38	4	119	983	20,984	38	8,149	130	42	0	4	3,432	380	2,709	504	819	36,310
7 FOR	1	0	0	0	1,242	0	347	0	0	0	2	0	0	5	0	23	1,819
8 FSH	3,235	227	3,355	158,859	1,070,958	75	28,123	0	1,043	2	5,852	27,859	135	4,214	24,787	18,310	1,344,832
9 COL	0	0	0	0	138	0	0	0	0	0	0	12	0	0	40	10	200
10 OIL	0	0	0	0	81	0	0	0	0	0	0	0	0	0	0	0	81
11 GAS	8	0	23	281	102	0	27	5	0	0	0	0	0	12	0	154	811
12 OMN	850	25	94	18,633	75,637	17	2,802	2,089	582	1,397	489	2,818	1	0	11,474	4,084	118,953
13 PCR	0	0	0	18	0	0	4	3	0	0	0	0	0	0	0	495	520
14 MET	3	0	0	580	80,735	0	291	7	248	0	11	0	20	189	372	489	82,805
15 MIL	0	0	0	8	19	0	8	0	0	0	79	0	0	0	0	75	189
16 OFF	24,093	948	23,273	150,932	429,842	54	53,804	12,848	4,792	2,989	8,833	803	4,370	38,827	27,270	64,824	648,802
17 B&T	2,883	10	131	15,592	19,141	0	1,925	308	130	5,858	2,883	20	2,819	4,214	643	9,155	85,071
18 TEX	151,988	24,505	138,280	804,292	475,302	5,983	328,023	44,807	31,135	58,187	140,890	88,872	452,703	511,380	95,728	1,753,514	4,881,307
19 WAP	47,232	1,322	90,035	2,511,803	789,146	52	385,058	482	287	897	8,839	215	2,395	20,702	4,875	299,252	4,159,788
20 LEA	78,448	8,820	234,515	3,958,222	978,515	1,051	1,204,798	14,487	3,987	3,634	24,482	8,483	22,040	57,435	25,333	458,940	7,082,149
21 LUM	2,184	411	4,349	105,347	187,345	12	28,178	578	544	1,214	2,864	528	2,913	14,362	9,178	48,228	408,231
22 PPP	24,033	2,280	7,309	101,880	37,832	48	37,883	2,838	3,800	3,980	7,288	4,788	28,287	111,957	7,908	103,172	482,744
23 P&C	891	1,242	8,113	30,188	424,127	0	21	2,788	1,844	8,358	18,083	1,099	82	7,821	18,253	84,581	584,488
24 CRP	128,435	13,228	90,982	787,559	594,811	812	384,885	70,838	27,124	40,989	81,887	109,480	129,383	137,887	111,575	1,015,350	3,882,842
25 NMM	18,452	1,831	15,493	158,898	348,028	58	35,045	7,272	2,338	5,570	7,395	3,021	18,048	15,007	15,718	85,447	731,414
26 I&S	38,324	17,089	71,004	717,188	1,328,711	509	72,495	111,301	85,200	77,839	92,487	108,808	19,852	52,303	108,725	544,148	3,419,877
27 NFM	1,852	587	3,849	33,873	117,781	23	1,884	8,905	8,083	10,207	39,388	11,440	29,844	41,774	44,359	87,588	420,954
28 FMP	51,551	8,020	91,523	859,548	242,284	1,138	238,523	18,899	7,484	17,989	23,477	20,483	8,819	53,857	17,173	485,457	2,121,821
29 TRN	45,439	38,988	174,132	4,132,597	208,735	7	453,109	1,420	4,134	2,824	130,443	55,184	4,030	85,388	29,373	1,579,458	8,948,237
30 OME	281,348	38,980	809,282	7,892,647	1,904,913	23,394	2,835,073	148,893	192,848	100,084	738,805	148,574	884,030	898,718	482,897	2,378,795	18,808,848
31 OMF	78,208	14,864	110,857	1,584,958	434,829	170	717,598	3,723	9,447	1,543	29,275	7,395	7,379	113,841	44,843	277,352	3,415,879
32 EGW	0	0	0	0	0	18,040	0	0	0	0	0	0	0	0	0	0	18,040
33 CON	5,802	1,253	448	10,732	4,454	0	82,737	283	1,578	803	255	213	1,720	12,522	485	4,758	108,122
34 T&T	141,825	34,238	71,345	1,820,850	1,642,858	0	783,857	70,382	29,577	28,425	87,538	82,284	23,511	183,857	182,574	105,388	5,007,885
35 OSP	52,122	18,895	80,649	1,584,948	471,535	0	300,315	35,289	41,040	9,341	100,841	28,925	53,889	88,928	78,020	19,411	2,923,028
36 OSG	15,785	8,880	7,788	13,001	18,825	0	32,418	9,208	18,332	491	10,488	3,117	2,045	9,491	10,952	4,704	184,081
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,171,508	230,833	1,818,238	28,828,229	12,180,904	51,481	7,984,345	585,812	458,381	380,283	1,541,118	875,518	1,482,270	2,285,434	1,354,587	9,377,894	68,384,588

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = EEC

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	23	0	18	85	0	0	92,345	0	0	0	0	0	0	0	0	9,022	101,491
2 WHT	0	2	0	109	0	118,499	1,970,514	5,871	0	0	19	1,028	7,401	932	0	1,192,032	3,298,207
3 GRO	9	8	378	1,818	11,292	4,210	2,208,909	11	94	0	71	218	482	10	5	1,024,409	3,252,820
4 NGC	28,751	4,883	102,289	511,730	124,779	12,894	11,899,840	4,545	4,524	2,849	14,038	10,423	8,493	18,808	12,584	2,885,707	15,420,515
5 WOL	2,727	1,288	1,142	11,238	48,788	3,723	289,409	0	0	0	38	220	30,188	2,788	1,284	81,220	433,984
6 OLP	21,392	3,001	21,505	174,083	87,975	90,559	4,773,235	1,086	1,712	3,015	2,874	8,009	17,510	81,378	11,257	1,011,219	6,307,901
7 FOR	890	50	323	5,977	4,082	720	486,581	6	48	78	415	49	1,445	89	1,148	249,952	733,902
8 FSH	8,708	99	18,978	138,888	245,871	7,079	2,282,098	101	848	14	2,111	29,482	2,251	4,912	7,789	453,120	3,190,144
9 COL	1,831	371	56	30,895	449	1,821	874,381	207	59	0	53	0	15	240	27	129,141	1,039,127
10 OIL	1	178	1,095,273	1,548,048	0	2,719	3,441,003	0	0	4,089	0	0	0	0	0	352,025	8,443,313
11 GAS	139	24	257	5,948	590	84	2,018,821	44	57	33	84	8	98	108	48	227,778	2,254,083
12 OMN	24,847	3,415	87,883	1,735,532	583,179	37,423	4,217,788	7,283	35,383	4,172	32,919	134,982	32,178	299,341	22,300	4,991,111	12,249,795
13 PCR	140	2	321	1,053	0	2	301,888	2	0	0	0	34	0	4	0	108,290	411,533
14 MET	3,248	87	12,585	322,055	497,278	2,304	8,211,801	283	1,970	5,075	19,183	577	14,285	28,187	919	1,715,473	11,833,228
15 MIL	28,177	1,470	53,875	172,579	188,883	8,298	8,497,553	13,839	18,289	41,788	38,983	44,979	47,258	34,278	51,495	2,847,723	11,883,225
16 OFP	159,111	21,838	252,458	1,022,222	382,208	24,727	18,481,550	38,418	35,325	34,901	48,745	39,888	45,099	85,180	89,080	6,847,929	25,548,438
17 B&T	148,411	25,259	280,448	2,288,353	443,828	33,917	7,079,798	4,324	32,230	13,882	118,182	54,282	73,038	124,535	79,771	2,480,912	13,258,945
18 TEX	208,801	49,340	282,542	1,513,835	887,812	143,887	18,017,420	27,984	18,881	18,158	58,178	22,078	513,305	177,013	115,932	8,128,383	29,979,187
19 WAP	48,829	2,049	82,159	1,320,829	190,022	11,114	3,054,091	200	758	1,450	33,552	848	8,545	158,320	13,470	1,425,598	8,318,829
20 LEA	73,550	7,244	249,044	1,728,901	488,474	148,089	7,283,028	1,323	3,308	7,852	81,813	4,381	53,193	242,097	70,397	3,233,280	13,881,955
21 LUM	114,285	10,998	139,718	1,148,854	201,088	15,918	8,789,083	5,848	2,989	2,340	24,734	7,802	21,082	48,870	15,829	4,189,751	14,738,788
22 PPP	397,285	75,228	280,145	1,208,822	208,755	38,381	14,888,820	58,141	38,828	18,082	89,078	31,008	118,555	87,290	48,578	5,882,522	23,422,093
23 P&C	21,805	2,150	235,234	1,777,034	97,937	33,019	9,400,874	11,708	4,482	2,881	30,858	8,120	17,897	4,350	38,491	5,180,084	18,884,458
24 CRP	1,288,334	285,509	1,133,148	8,910,022	3,820,578	1,010,435	89,837,370	514,598	259,201	174,183	578,478	449,581	1,581,078	577,282	892,741	38,414,710	129,487,213
25 NMM	253,277	35,307	288,588	1,811,302	319,539	80,392	9,113,515	34,993	20,298	13,443	107,484	17,538	49,518	112,981	71,095	4,302,574	18,809,828
26 IAS	105,988	28,788	585,417	2,843,523	137,835	235,784	21,112,540	99,379	89,128	29,078	153,742	122,732	585,734	128,151	188,287	11,800,780	38,022,942
27 NFM	88,728	7,371	129,787	1,202,899	550,205	80,882	10,187,200	15,801	13,944	8,838	72,521	25,007	84,952	87,089	77,281	3,980,958	18,583,222
28 FMP	199,898	31,788	338,021	1,752,309	828,209	97,481	14,978,020	53,395	110,818	14,233	157,829	47,189	95,740	172,183	84,200	8,582,134	27,320,996
29 TRN	748,885	119,020	1,887,027	12,849,150	2,371,832	348,135	81,870,410	295,859	88,043	75,890	352,822	351,903	578,229	222,598	1,089,112	29,048,950	111,873,317
30 OME	2,439,875	394,242	2,891,032	23,498,070	2,945,049	1,718,071	110,808,000	958,002	504,882	384,928	1,853,073	872,895	4,077,548	1,098,888	1,827,380	74,029,580	229,477,875
31 OMF	590,988	30,958	197,218	3,233,818	1,349,781	42,324	7,800,247	15,758	10,383	8,050	87,211	14,022	42,381	174,589	34,203	6,313,881	19,725,328
32 EGW	0	0	0	0	0	0	2,177,945	0	0	0	0	0	0	0	0	34,910	2,212,855
33 CON	108,773	21,381	8,989	83,887	18,783	7,078	10,438,750	3,292	14,485	5,838	1,827	2,018	25,731	84,953	5,288	378,470	11,185,300
34 T&T	592,133	130,288	249,118	2,818,023	1,544,734	195,805	28,330,920	198,788	80,471	40,974	108,024	131,232	78,438	212,878	395,127	418,901	35,501,829
35 OSP	1,080,148	314,559	1,030,208	13,405,300	2,157,159	353,315	54,200,130	479,857	408,197	85,504	784,889	308,738	871,357	387,879	922,487	1,817,192	78,584,877
36 OSG	255,294	127,748	104,922	87,435	71,390	78,394	4,852,000	98,812	129,188	2,739	84,756	25,404	28,393	42,488	102,970	278,421	8,148,104
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8,974,105	1,715,701	11,758,039	88,839,809	20,151,845	4,981,281	542,547,332	2,948,877	1,904,113	959,878	4,865,931	2,582,307	8,083,389	4,852,889	8,044,470	233,385,880	945,301,424

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = IND

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
2 WHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 GRO	0	0	0	0	1,254	0	0	0	1,351	0	1,417	0	0	0	37	0	4,058
4 NGC	34,488	7,020	54,454	783,057	231,457	58,040	488,735	0	24,551	4,701	338,257	2,325	114,082	0	45,299	338,334	2,522,781
5 WOL	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	58
6 OLP	3	2	84	5,273	10,814	4,229	11,988	4	320	277	8,141	1,282	53	11,887	529	125	54,787
7 FOR	1	135	5	30	1,580	275	500	0	577	0	1,452	0	5	0	595	245	5,398
8 FSH	3,922	0	1,313	23,018	408,155	3,482	45,388	0	9,979	782	40,831	24,428	2,387	14,704	5,083	521	584,780
9 COL	0	0	0	0	15,808	5,210	2,428	0	4,814	271	237	1,781	0	21	18,385	1,503	48,238
10 OIL	184,590	14,011	0	1,190,883	2,112,798	189,505	24,984	0	8,801	0	46,043	0	28,177	31,981	185,480	19,218	4,008,230
11 GAS	2,197	0	0	5,525	2,334,928	279,849	0	0	0	0	5,929	5,728	0	1,814	0	591	2,838,381
12 OMN	3,085	109	14	1,271	513,398	13,825	20,840	2	3,283	11,987	12,279	1,208	10,784	4,721	3,812	6,211	808,588
13 PCR	0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	21
14 MET	23	0	855	1,232	43	31	19,875	3	282	0	2,430	0	22	5,553	130	16	30,274
15 MIL	0	0	0	21	78	0	38	0	0	1,702	48	0	0	0	0	2,708	4,591
16 OFP	7,787	490	2,899	57,171	41,988	18,584	354,521	0	48,753	418	33,103	1,033	8,072	4,488	14,009	148,720	737,997
17 B&T	191	0	48	8,828	3,395	0	30,899	0	834	32	2,273	2,845	837	10,782	125	2,984	81,853
18 TEX	27,779	3,570	9,870	85,088	80,748	20,383	138,528	80	14,884	9,382	88,702	18,910	21,233	30,928	13,985	111,814	851,641
19 WAP	3,733	295	21,844	418,394	9,805	114	188,384	1,108	1,123	4	28,378	20	45	27,518	184	55,701	752,647
20 LEA	5,481	237	1,240	29,194	4,878	17,338	87,852	5	183	414	5,535	300	3,750	3,783	3,413	3,384	148,948
21 LUM	15,417	774	39,428	371,345	777,985	155,425	435,988	18	2,480	0	189,489	35,400	481,384	90,721	181,304	282,978	3,040,099
22 PPP	7,394	944	28	2,218	2,434	4,155	887	0	18,858	1,889	28,541	700	22,150	22,989	4,872	27,337	142,752
23 P&C	5,279	0	0	208,393	748,998	20,978	3,248	0	188	0	33,225	825	0	0	4,502	0	1,025,812
24 CRP	14,452	579	2,883	33,798	28,898	12,224	35,334	132	22,495	37,013	37,887	18,170	78,992	21,378	21,720	87,429	429,380
25 NMM	11,828	408	3,297	4,888	25,820	9,184	3,477	8	4,091	6,778	19,148	498	3,834	3,981	11,779	78,587	187,244
26 I&S	215	0	0	70,901	100,001	528	18,873	173	11,303	784	10,354	12,237	38,344	8,971	9,782	6,452	284,928
27 NFM	299	770	2,888	38,117	270,874	18,875	27,409	14	843	2,971	175,719	22,049	522	813	5,131	18,045	578,718
28 FMP	471	24	253	11,448	11,974	125	917	298	7,885	730	291,772	1,474	713	1,708	1,590	830	331,992
29 TRN	214	24	38	1,532	2,424	9	8,974	7	9,774	23	2,895	1,319	7,578	8,844	938	2,899	45,081
30 OME	3,886	111	847	10,907	8,821	3,510	22,298	324	10,858	1,110	23,594	1,410	895	1,991	3,732	19,592	113,882
31 OMF	4,149	483	363	23,375	7,557	3,083	11,400	0	551	488	83,705	225	987	14,558	2,827	15,281	148,970
32 EGW	0	0	0	0	0	0	0	81	0	0	0	0	0	0	0	0	81
33 CON	35	4	1	28	83	10	327	0	18	4	5	1	18	37	4	1	555
34 T&T	8,389	825	820	31,848	172,034	8,905	29,721	0	2,301	952	10,311	2,312	1,863	4,038	10,382	1,187	283,888
35 OSP	3,883	838	1,088	48,507	78,919	5,145	18,205	0	4,972	487	23,980	1,730	8,828	2,357	7,780	522	202,599
36 OSG	108	31	13	38	308	137	188	0	189	2	238	17	24	31	104	1	1,427
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	327,037	31,484	144,347	3,440,121	8,004,803	880,893	2,005,837	2,280	213,815	82,955	1,519,492	158,228	829,221	327,893	535,245	1,188,753	19,871,985

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = MAL

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	40
2 WHT	0	0	0	0	0	88	0	0	0	0	245	0	0	0	0	0	333
3 GRO	1	0	0	0	0	13	0	0	0	0	491	0	0	3	0	27	534
4 NGC	42,735	8,049	40,933	217,249	149,827	187,804	558,830	2,489	0	2,548	720,152	1,459	207,981	12,133	119,855	408,428	2,878,048
5 WOL	0	0	0	0	908	881	59	0	0	0	3	0	92	588	0	0	2,490
6 OLP	41	0	0	317	1,817	42	1,787	22	1	12	95,530	199	9	1,998	479	595	102,849
7 FOR	83	289	33	591	1,259,240	318,452	2,000	5	0	0	4,078	17,475	50,713	24,883	200,901	72,857	1,951,657
8 FSH	10,787	502	533	9,855	50,743	1,220	4,922	22	24	0	27,822	5,384	57	1,898	2,039	1,895	117,282
9 COL	0	0	0	0	0	0	0	12	0	0	18	0	0	0	523	0	552
10 OIL	123,370	0	0	122,828	375,849	285,883	0	53,457	0	139,297	833,245	127,823	18,876	0	49,834	88,827	2,018,887
11 GAS	0	0	0	0	785,213	1,547	0	8	0	0	91	845	0	0	1,348	845	789,494
12 OMN	90	3	0	853	85,940	4,858	30,480	158	38	220	8,825	872	398	578	3,211	2,771	139,070
13 PCR	0	0	0	8	0	0	0	58	0	0	758	0	0	0	0	0	820
14 MET	86	0	0	0	1,716	0	110	30	0	3,002	1,224	2	75	32	0	1,937	8,186
15 MIL	6	27	0	0	0	0	87	1,181	0	2,370	17,329	37	73	2,508	728	2,133	26,434
16 OFP	88,285	11,882	30,985	183,278	115,989	58,182	329,313	109,194	38	8,582	375,588	8,435	130,559	14,352	18,845	945,485	2,414,885
17 B&T	98	0	10	123	1,078	0	233	113	0	138	14,988	88	28	335	32	11,018	28,233
18 TEX	20,909	3,483	10,408	30,313	40,880	4,425	39,421	7,320	224	12,120	71,871	8,211	22,750	14,352	4,728	21,982	313,374
19 WAP	1,234	50	8,800	320,254	1,532	33	49,408	7	7	138	203,433	195	138	2,427	480	14,084	802,022
20 LEA	5,304	230	1,873	8,235	888	38	9,317	72	1	20	18,891	53	53	2,292	1,019	1,029	44,895
21 LUM	90,983	3,217	8,871	55,527	138,327	53,780	354,583	236	1	131	209,044	57,748	50,598	19,803	71,717	89,885	1,202,412
22 PPP	4,022	914	289	7,428	1,287	42	8,783	1,221	0	877	49,088	5,898	4,122	7,988	4,877	12,808	107,220
23 P&C	0	805	0	3,158	107,213	8,458	23	24,883	0	4,170	128,403	4,891	2	1,927	189	2,131	284,120
24 CRP	30,292	3,044	7,428	212,817	98,508	18,852	107,287	20,133	124	15,421	150,287	34,271	21,005	28,448	27,884	85,434	838,829
25 NMM	4,783	898	1,473	18,543	9,838	821	4,432	1,095	0	827	49,425	1,250	499	4,142	2,140	29,187	128,914
26 I&S	1,188	48	1,807	13,583	19,915	555	8,520	8,303	1	4,913	82,334	11,894	898	10,889	4,178	38,482	184,842
27 NFM	18,712	928	3,179	38,987	89,930	20,434	73,908	1,405	0	2,978	82,740	5,998	4,312	4,395	18,904	38,788	383,578
28 FMP	8,678	283	1,950	23,572	19,589	12,788	15,298	4,889	1	1,218	83,827	7,232	1,718	9,707	1,721	21,155	191,404
29 TRN	7,046	588	859	21,880	2,974	22	15,741	13,243	0	154	88,352	2,008	1,139	1,458	287	9,243	182,535
30 OME	49,528	4,890	97,782	2,201,212	297,528	95,022	797,997	38,599	2,809	80,458	1,908,730	57,188	43,818	271,852	131,847	183,854	5,898,308
31 OMF	44,038	815	5,378	57,987	7,151	349	35,574	150	5	883	55,759	1,250	9	5,528	2,255	19,238	236,342
32 EGW	0	0	0	0	0	0	0	0	8,392	0	0	0	0	0	0	0	8,392
33 CON	255	23	5	128	128	53	1,788	14	0	58	72	11	54	219	23	8	2,832
34 T&T	83,820	8,337	7,588	198,904	482,921	87,382	223,073	37,328	0	18,210	195,583	32,848	7,558	33,027	80,228	14,883	1,489,481
35 OSP	18,779	2,247	4,806	138,941	99,029	17,954	82,867	13,385	0	4,275	208,818	11,208	12,325	8,845	27,503	1,399	829,880
36 OSG	1,548	349	180	347	1,254	1,518	2,058	1,082	0	88	8,589	355	143	371	1,175	31	17,044
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	812,553	47,820	232,141	3,892,889	4,228,597	1,158,533	2,733,858	337,810	9,483	281,043	5,125,023	403,890	579,791	484,725	778,102	2,095,578	22,999,285

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = PHI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	8	0	0	0	0	37	0	0	0	0	0	42
2 WHT	0	0	0	0	0	334	0	0	0	0	0	0	0	0	0	0	334
3 GRO	0	0	0	0	282	387	0	153	0	0	8	30	0	0	0	88	929
4 NGC	12,891	5,041	8,110	85,215	414,389	19,241	80,220	881	1,822	15	15,045	217	8,581	16,877	20,130	28,700	898,914
5 WOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 OLP	40	14	127	2,195	2,557	1,502	3,008	0	5	3	20	31	80	109	479	281	10,430
7 FOR	18	89	43	221	9,228	1,051	1,198	0	0	0	0	8	73	0	8,980	370	19,231
8 FSH	2,183	7	1,595	59,827	222,373	141	4,052	0	94	10	887	2,157	3,509	4,789	2,838	4,088	308,288
9 COL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 OIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 GAS	0	0	0	2,133	0	0	0	0	1,912	0	202	0	1,153	12,512	119	3,382	21,392
12 OMN	1,874	81	1,137	8,488	448,031	13,851	18,098	28	54	0	78	875	8,890	0	15,710	8,805	517,555
13 PCR	0	0	0	10	0	0	0	0	0	0	237	0	0	0	0	0	247
14 MET	3	0	5	298	22	0	38	0	2	12	282	0	0	371	0	3	1,016
15 MIL	0	0	2	0	0	0	0	18	0	0	89	50	4	135	83	1	339
18 OFP	7,759	1,882	23,497	399,883	40,398	12,947	285,851	774	3,251	3	5,188	388	25,458	4,703	10,589	54,385	867,015
17 B&T	118	110	217	4,024	2,547	91	9,987	193	15	107	444	28	4,172	1,354	2,191	8,233	33,811
18 TEX	8,720	411	2,388	40,919	8,019	3,835	14,905	158	1,028	498	1,893	1,287	3,534	4,218	1,335	3,844	92,592
19 WAP	8,054	429	14,649	707,637	8,537	42	114,023	72	121	25	2,074	315	1,182	6,222	312	43,819	905,511
20 LEA	5,879	121	9,788	113,721	8,925	945	23,882	44	38	22	890	429	115	2,535	89	2,218	189,184
21 LUM	22,808	1,881	10,549	178,892	109,339	1,055	188,929	3	208	8	828	108	1,883	25,278	8,712	21,859	599,518
22 PPP	885	24	83	4,728	9,845	142	5,511	40	332	0	898	72	74	1,204	408	582	24,384
23 P&C	1,458	0	0	844	70,497	10,872	0	3,438	8,343	0	8,023	435	1,343	10,407	73	31,291	142,821
24 CRP	18,047	1,205	2,881	44,331	40,048	5,327	31,739	24,871	8,585	177	8,888	21,285	35,772	20,237	12,137	34,883	309,573
25 NMM	3,730	329	791	12,143	2,944	2,909	3,025	459	321	2	1,414	409	2,039	3,959	845	1,871	37,189
28 I&S	5,423	549	180	17,784	31,949	4,988	120	183	822	0	181	1,948	14,831	8	1,294	185	80,188
27 NFM	220	0	0	317	113,818	88,082	3,878	535	2,877	0	15,310	1,863	808	342	94,003	503	299,957
28 FMP	2,181	187	520	11,332	117,128	784	22,852	558	454	48	1,728	3,354	4,174	800	1,351	1,711	188,768
29 TRN	448	28	355	2,821	8,033	4	2,485	42	88	35	18,572	2,855	5	527	809	492	37,375
30 OME	10,124	882	37,054	828,311	48,153	14,973	249,993	2,092	70,303	435	125,298	120,018	2,815	99,720	17,495	8,989	1,638,449
31 OMF	10,411	1,499	9,338	125,840	28,280	2,314	45,590	150	700	34	2,333	577	52	2,588	1,925	8,075	235,485
32 EGW	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	20
33 CON	278	42	13	483	295	39	3,798	8	188	0	15	23	58	528	34	91	5,847
34 T&T	2,883	455	784	27,837	42,984	1,928	18,244	844	1,241	0	1,812	2,649	300	3,081	4,443	318	109,148
35 OSP	3,299	781	2,272	90,885	41,522	2,405	24,155	1,424	5,798	0	8,102	4,285	2,304	3,883	7,179	859	189,011
36 OSG	399	155	118	298	889	288	1,040	148	920	0	335	178	35	212	402	25	5,221
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	124,885	18,240	128,279	2,788,874	1,824,789	188,219	1,118,154	38,871	107,098	1,450	217,997	185,288	120,782	228,338	209,703	285,085	7,485,787

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = SIN

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	3	0	0	0	0	0	47	0	50
2 WHT	0	0	0	0	0	181	0	0	2,220	0	0	0	0	0	0	148	2,527
3 GRO	2	0	0	0	0	0	0	30	22,509	0	0	27	0	8	0	1,199	23,774
4 NGC	41,427	3,984	23,810	239,303	132,214	41,840	337,084	1,787	129,458	18,195	190	8,209	229,528	88,590	72,154	647,881	1,991,231
5 WOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 OLP	888	521	2,288	3,118	18,821	3,351	18,917	93	5,213	64	13	3,208	5,419	16,428	13,757	4,113	92,287
7 FOR	130	101	0	37	2,325	248	479	4	82	0	0	187	52	1,931	2,175	9,405	17,145
8 FSH	11,228	514	4,898	55,737	121,443	5,081	37,584	89	9,898	352	87	33,589	1,407	32,855	5,750	14,028	333,835
9 COL	7	0	0	0	23	9	0	448	1,451	59	0	84	0	0	0	252	2,333
10 OIL	3,382	0	0	13,027	0	0	0	0	20,337	117	0	150,978	0	0	0	0	187,839
11 GAS	0	0	0	0	0	0	0	41	30,393	0	0	11,244	2,433	10,127	0	4,718	58,954
12 OMN	1,177	824	139	7,888	3,818	4,529	9,093	8,239	30,100	2,824	115	18,887	209	4,921	1,224	18,811	112,173
13 PCR	57	11	83	22	0	0	18	0	516	0	0	0	0	3	0	1,057	1,745
14 MET	235	4	0	748	475	50	758	82	12,228	2,848	0	1,490	48	8,118	848	18,230	44,133
15 MIL	2	0	0	18	8,781	227	1,245	213	3,109	1,829	0	253	117	5,599	13,733	57,834	90,733
16 OFP	82,890	18,189	2,747	49,108	58,530	7,241	27,982	20,881	110,448	14,543	41	10,948	151,019	53,488	24,572	385,802	996,203
17 B&T	889	191	171	8,550	38,842	174	5,898	588	11,911	1,232	0	4,035	8,243	52,735	24,222	114,018	287,475
18 TEX	8,192	1,749	8,531	9,282	17,191	4,277	28,404	5,042	187,864	38,059	331	19,992	8,078	23,475	84,217	232,033	654,896
19 WAP	2,915	285	32,820	788,851	4,944	89	270,103	91	11,323	1,383	282	1,559	53	8,584	1,158	101,131	1,223,321
20 LEA	9,302	424	203	5,951	14,899	978	28,832	325	8,913	327	26	501	2,078	8,807	3,549	28,859	108,872
21 LUM	35,443	3,407	8,052	89,703	82,109	13,888	199,230	392	10,333	758	21	5,241	18,910	45,589	48,558	238,577	798,008
22 PPP	43,388	3,859	1,508	45,285	4,528	18,189	37,014	23,072	112,852	9,901	298	22,937	4,900	23,808	40,372	97,529	488,921
23 P&C	231,481	8,018	0	195,182	1,155,178	80,387	4,184	277,551	584,801	87,015	28	708,711	381,130	531,680	181,804	533,248	4,880,155
24 CRP	117,372	14,454	13,305	281,709	217,248	78,482	105,840	248,713	547,499	94,185	470	199,882	348,095	148,858	217,154	508,771	3,118,825
25 NMM	4,508	990	422	8,282	8,159	3,987	2,449	5,003	22,870	5,994	83	4,028	4,242	10,571	8,244	50,555	138,188
26 I&S	8,331	898	391	52,250	27,508	8,395	7,301	41,481	112,999	8,303	89	31,388	8,968	15,728	10,511	89,109	421,804
27 NFM	4,909	51	2,130	91,501	174,152	70,987	41,450	13,002	107,100	9,244	88	25,458	128,378	23,489	71,252	88,300	829,490
28 FMP	19,480	2,051	8,173	71,228	88,909	21,480	89,388	18,488	138,042	18,838	413	32,031	18,111	24,005	21,382	137,758	879,509
29 TRN	33,333	5,253	8,898	142,450	15,019	10,241	88,292	53,950	75,138	8,498	31	21,825	17,145	21,729	105,073	559,879	1,180,352
30 OME	432,005	88,945	289,543	7,510,105	700,425	379,803	2,840,328	195,777	1,829,478	139,350	7,877	897,298	410,781	748,703	823,811	1,758,322	18,831,550
31 OMF	14,182	1,503	9,982	177,011	31,211	959	130,387	4,825	47,241	8,252	890	7,795	1,841	83,780	10,170	121,829	829,447
32 EGW	0	0	0	0	0	0	0	0	0	0	398	159,734	0	0	0	0	180,132
33 CON	1,972	297	33	1,337	385	138	11,818	185	5,475	359	0	231	828	3,853	205	139	28,830
34 T&T	277,846	48,882	30,155	1,185,219	819,139	98,985	829,770	255,417	592,087	85,188	0	388,209	48,348	309,389	398,055	102,774	5,424,181
35 OSP	82,133	18,897	20,804	915,842	189,002	28,909	282,288	102,908	880,345	17,218	0	149,824	90,578	93,228	152,774	12,230	2,798,877
36 OSG	18,448	8,315	1,745	4,988	5,202	5,334	18,722	17,788	173,775	589	0	10,328	2,282	8,488	14,182	1,298	287,448
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,485,229	208,258	483,788	11,909,839	3,832,058	881,945	5,408,499	1,292,381	5,597,197	524,838	11,490	2,728,137	1,863,810	2,364,924	2,128,931	5,918,423	48,875,422

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = THA

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	352	38	537	448	0	0	24,373	0	0	0	218	0	0	22	0	2,858	28,841
2 WHT	0	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0	29
3 GRO	1	0	0	40	1,382	81,129	2,222	1,852	43,087	0	10,888	0	343	12,995	4,535	15,938	154,182
4 NGC	8,178	784	8,418	159,483	832,388	87,158	803,475	23,477	34,708	543	133,877	15	24,832	40,154	107,444	158,804	2,204,543
5 WOL	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14
8 OLP	1,238	389	88	21,388	14,198	1,472	5,172	81	1,432	145	1,901	188	1,791	8,583	7,258	599	63,851
7 FOR	0	13	0	35	5,552	407	33	0	819	0	448	0	594	7,759	3,378	90	19,124
8 FSH	20,080	1,190	7,849	108,244	497,810	1,515	110,981	3	29,470	0	34,993	34	1,181	29,532	3,740	2,828	948,229
9 COL	0	0	0	0	0	0	0	22	20	0	0	0	0	0	0	33	75
10 OIL	0	0	0	8,509	0	0	0	0	0	0	0	0	0	0	0	0	8,509
11 GAS	0	0	0	78,464	0	0	0	0	0	2,223	0	0	0	0	19,277	23	99,988
12 OMN	9,805	1,803	3,570	148,038	228,394	9,189	128,054	4,848	4,527	1,033	19,101	4,814	518	84,385	13,800	98,744	734,010
13 PCR	8,887	1,540	9,050	48,399	3,798	388	44,274	10,747	74,535	408	88,177	0	385	72,325	1,088	1,007,710	1,387,449
14 MET	21	0	148	538	182,458	32	5,503	0	154	0	8,872	2	1,478	2,880	12	2,487	202,182
15 MIL	0	337	17	259	0	0	0	8	0	2,405	3,848	0	11	1,145	907	1,871	10,805
18 OFF	84,983	8,733	82,144	572,387	299,873	83,593	378,185	22,875	81,370	12,798	41,215	90	10,835	32,828	28,791	188,227	1,904,917
17 BAT	2,088	137	134	7,898	8,221	0	1,857	323	178	42	1,808	3	8	2,714	7	920	28,115
18 TEX	50,380	4,840	13,530	120,891	43,754	7,725	181,747	5,955	18,891	8,843	82,384	338	23,383	19,086	6,000	218,420	784,387
19 WAP	13,819	307	7,787	299,883	30,382	89	95,131	202	3,088	1,883	58,518	10	58	18,885	1,837	225,347	754,522
20 LEA	23,128	1,104	14,911	228,900	12,404	701	188,881	820	2,179	258	22,509	75	8,173	24,188	7,813	58,378	588,001
21 LUM	11,051	983	8,720	145,343	121,422	2,433	87,885	93	522	142	9,889	25	5,920	12,028	8,701	28,888	439,598
22 PPP	1,802	204	298	4,970	8,722	4,547	5,022	1,579	8,473	385	8,087	25	4,837	11,513	2,845	21,803	80,870
23 PAC	358	0	0	43,798	211	8	12	1,344	278	0	332	0	45	345	7	43,417	90,151
24 CRP	42,597	2,881	8,710	118,113	77,422	7,280	148,580	9,788	20,119	3,832	54,589	308	12,820	56,830	42,187	178,501	782,078
25 NMM	17,784	2,011	1,881	27,981	10,448	1,017	28,771	3,728	5,032	2,142	15,532	27	1,534	8,343	3,385	21,084	148,834
28 IAS	2,031	29	4,582	99,104	18,583	238	4,118	877	1,581	5,252	20,704	74	1,351	11,544	1,344	28,585	195,978
27 NFM	1,988	11	155	12,084	43,835	3,077	24,038	582	2,225	1,398	27,858	0	551	1,922	2,918	4,878	128,870
28 FMP	9,251	1,088	1,258	33,405	27,180	795	30,258	1,314	4,370	1,077	17,408	24	1,888	8,133	2,897	28,514	187,817
29 TRN	2,704	14	82,798	18,297	7,800	38	8,138	4,122	2,887	232	14,128	30	859	2,084	5,510	17,388	184,811
30 OME	28,131	1,127	28,038	1,022,709	198,948	54,885	383,739	13,084	98,979	17,045	581,142	1,132	20,204	77,997	110,470	94,248	2,891,835
31 OMF	15,952	1,781	13,958	409,222	81,417	813	148,275	187	2,735	580	9,844	109	847	10,790	3,388	88,793	778,289
32 EGW	0	0	0	0	0	0	0	0	0	0	15,885	188	0	0	0	0	18,072
33 CON	341	38	12	270	179	30	4,081	10	290	28	37	0	24	530	27	18	5,911
34 TAT	113,185	13,478	27,097	554,715	895,128	51,348	875,191	38,908	73,988	11,150	133,588	0	4,370	105,833	122,528	87,323	2,885,799
35 OSP	37,293	5,989	20,822	485,813	230,038	17,050	237,713	18,583	81,884	3,280	178,571	0	8,833	35,521	52,842	9,938	1,431,851
38 OSG	8,709	1,817	1,589	2,388	5,887	2,828	15,242	2,589	21,721	102	11,010	0	202	2,905	4,390	850	79,988
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	513,555	52,331	348,492	4,771,501	3,893,507	379,528	3,724,782	183,578	807,273	75,282	1,558,889	7,302	135,350	877,172	588,078	2,589,984	19,882,392

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = CHI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	108	0	0	0	0	0	0	0	0	0	108
2 WHT	0	0	0	0	0	0	0	0	2	0	0	0	0	78	0	0	78
3 GRO	108	25	0	8	218,125	147	3,488	3,478	17,143	0	4,780	0	0	1,190	29	178	248,874
4 NGC	17,099	5,303	48,599	79,875	988,915	55,229	488,353	238,828	110,412	10,110	174,288	8,840	0	194,875	171,034	47,788	2,805,245
5 WOL	297	389	28	0	332	85	1,127	0	0	0	0	0	0	83	0	0	2,310
6 OLP	3,998	696	3,390	88,823	382,343	183,812	581,409	38	1,488	31	10,383	34,317	0	358,340	64,844	47,901	1,751,592
7 FOR	0	25	0	22	85,526	18	142	0	0	0	138	0	0	1,038	1,211	0	88,118
8 FSH	171	194	24,822	352,488	582,945	3,743	41,370	0	95	0	5,332	3,888	0	90,889	30,764	8,110	1,144,880
9 COL	0	0	0	1,854	205,893	0	79,079	1,524	11,515	28,248	558	0	0	44,872	5	0	373,148
10 OIL	5,722	7,364	0	410,880	1,888,413	0	4,784	0	0	85,096	837,850	0	0	0	0	0	2,820,107
11 GAS	0	0	0	303	0	0	0	0	0	0	0	0	0	2,053	0	97	2,453
12 OMN	14,578	1,883	13,232	95,999	275,848	23,279	115,898	11,814	48,190	1,809	42,818	189	0	64,914	22,080	15,329	747,837
13 PCR	81	44	92	38	119	0	783	0	2,289	0	1,513	0	0	38,083	0	0	40,981
14 MET	103	44	92	558	73,840	188	32,820	21	9,582	24	37,348	0	0	151,788	3	1,491	307,877
15 MIL	0	0	0	81	0	0	3	40	8	0	349	0	0	11,478	0	3	11,940
16 OFF	28,158	2,538	38,319	188,514	761,205	7,295	488,328	50,944	57,497	101,018	141,898	803	0	181,202	18,380	18,518	2,038,395
17 B&T	401	62	587	14,898	27,191	38	5,779	1,447	2,357	184	9,743	17	0	182,827	2,428	1,271	229,187
18 TEX	193,008	25,039	132,348	721,894	1,048,822	453,048	842,824	13,411	40,025	12,533	211,375	112,171	0	1,598,051	85,842	497,388	5,987,775
19 WAP	228,442	2,052	49,890	2,338,580	387,912	585	315,914	198	3,838	70	23,599	411	0	918,423	8,834	772,151	5,048,777
20 LEA	78,275	7,870	112,527	1,000,078	178,027	8,379	881,212	310	4,077	377	10,803	5,829	0	35,893	17,553	182,377	2,302,588
21 LUM	15,124	4,710	9,189	134,087	165,585	2,189	91,882	454	1,570	0	8,597	73	0	80,023	7,828	13,242	514,571
22 PPP	7,728	345	3,807	45,073	20,191	248	25,859	4,520	17,084	202	37,492	558	0	108,181	1,810	9,385	282,239
23 P&C	2,227	5,482	0	58,083	385,329	384	4,559	5,137	1,589	8,819	158,581	1,887	0	184,383	4,121	11,472	791,852
24 CRP	82,443	6,711	58,185	585,888	842,084	84,800	702,109	88,558	40,011	11,578	103,183	18,818	0	441,955	72,387	207,888	3,104,482
25 NMM	29,127	3,251	18,877	184,171	47,588	15,210	81,888	9,084	5,800	1,551	28,809	987	0	86,883	5,348	48,598	521,547
26 I&S	3,304	284	2,759	82,324	488,370	32,203	19,209	28,258	15,952	13,314	38,178	5,358	0	142,304	18,388	12,863	884,843
27 NFM	1,558	39	7,234	70,701	218,858	100,908	83,082	4,808	2,280	2,344	21,888	5,747	0	152,919	45,880	11,811	710,871
28 FMP	22,887	2,342	29,401	354,832	89,434	9,798	284,804	14,282	18,230	2,358	83,842	1,009	0	107,324	4,988	108,441	1,073,141
29 TRN	10,882	157	2,847	27,037	1,903	0	27,575	7,821	1,808	137	14,531	3	0	141,813	407	10,428	248,580
30 OME	71,588	7,409	104,043	1,808,241	188,305	18,901	779,072	88,085	24,822	5,833	82,880	12,800	0	1,828,331	42,179	430,148	5,047,415
31 OMF	70,825	10,218	134,194	1,854,083	241,771	15,210	882,242	3,180	11,811	1,278	31,280	3,903	0	0	12,855	232,745	3,585,573
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	1,278	0	0	1,278
33 CON	274	38	11	238	211	32	3,149	18	98	38	18	4	0	2,198	14	8	8,339
34 T&T	55,889	10,109	8,891	208,852	1,288,188	27,215	282,703	38,273	775	13,353	4,812	8,198	0	285,822	37,898	0	2,207,375
35 OSP	18,073	3,748	11,243	272,818	172,840	11,282	118,743	17,134	18,757	2,891	58,030	4,385	0	83,581	17,798	1,394	820,334
36 OSG	1,083	382	273	423	1,380	588	2,385	848	1,488	29	1,100	88	0	2,438	473	12	12,884
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	985,024	108,707	808,249	10,889,988	10,740,888	1,032,787	7,048,100	811,257	470,942	282,797	1,883,382	225,841	0	7,201,108	881,409	2,888,408	45,538,828

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = HK

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
2 WHT	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
3 GRO	2	0	9	8	0	185	100	15	0	0	0	0	57	0	0	0	355
4 NGC	1,151	954	4,320	8,747	1,855	4,718	9,845	2,874	1,851	8,045	7,558	1,453	1,759	0	1,958	2,333	58,819
5 WOL	0	0	0	0	0	180	0	0	2	0	0	0	0	0	0	0	182
6 OLP	191	27	373	3,888	5,843	15,945	18,899	181	520	28	1,877	308	1,848	0	4,449	348	54,318
7 FOR	0	0	20	13	51	1,277	47	0	0	0	21	0	1,084	0	0	2	2,515
8 FSH	598	114	7,187	19,814	88,492	1,791	2,808	82	575	85	5,844	3,247	788	0	8,748	354	138,080
9 COL	7	0	0	2	0	1,808	0	0	0	0	13	0	0	0	0	0	1,831
10 OIL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 GAS	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	5
12 OMN	8,713	714	1,442	120,343	99,414	5,438	103,788	1,275	1,421	818	2,074	12,997	3,174	0	1,882	3,314	384,804
13 PCR	0	0	12	15	0	0	35	0	0	0	0	0	0	0	0	0	82
14 MET	808	19	149	2,853	4,214	0	320	37	978	209	880	27	118	0	43	408	11,037
15 MIL	0	0	0	11	0	257	28	14	0	138	30	0	125	0	0	883	1,287
18 OFP	12,582	815	10,909	57,749	15,055	2,515	18,589	1,858	2,542	5,045	12,142	345	30,598	0	8,050	11,140	188,514
17 B&T	133	111	549	3,153	2,032	179	748	473	7,381	1,499	14,170	85	220,830	0	9,080	18,898	279,258
18 TEX	82,883	23,730	43,400	188,637	27,949	35,985	140,318	43,389	44,028	79,573	133,923	35,848	758,538	0	21,780	355,884	1,983,831
19 WAP	87,499	5,388	281,171	3,489,491	188,784	418	1,951,802	784	3,570	2,371	48,888	1,820	211,151	0	25,710	882,972	8,947,378
20 LEA	15,487	1,801	28,448	311,025	207,777	4,021	243,288	283	854	2,374	21,489	821	89,204	0	8,729	48,981	983,321
21 LUM	3,807	448	5,218	48,881	5,888	784	18,199	382	300	338	4,231	74	26,311	0	2,230	7,300	121,848
22 PPP	47,295	7,473	13,492	131,348	9,907	9,300	82,443	9,830	8,750	8,447	17,175	12,748	252,458	0	39,379	52,009	689,850
23 P&C	289	30	0	11	70	541	225	924	715	725	503	33	588	0	0	1	4,832
24 CRP	48,718	4,420	28,482	205,850	38,878	13,871	158,357	18,024	25,415	27,085	51,541	18,283	848,032	0	24,395	91,797	1,390,935
25 NMM	2,875	414	3,888	43,207	1,974	2,780	19,231	535	488	1,337	5,001	1,318	27,817	0	832	10,259	121,892
28 I&S	21	44	229	1,070	27,418	9,257	1,249	9,284	1,282	3,297	3,272	12,085	21,517	0	13,037	3,823	108,893
27 NFM	8,053	124	2,227	13,597	4,837	15,392	13,435	1,543	2,518	1,883	7,371	1,844	33,879	0	13,369	7,286	124,759
28 FMP	31,235	3,098	28,445	203,439	105,701	22,823	152,080	3,080	8,858	7,271	22,991	4,827	240,141	0	21,583	70,245	923,594
29 TRN	8,389	228	877	22,585	473	23,124	32,023	441	72	883	17,972	218	1,837	0	73	2,002	108,995
30 OME	212,122	34,844	221,415	3,054,028	301,401	251,287	2,085,782	23,750	95,487	41,255	473,448	58,974	2,248,523	0	190,819	780,741	10,049,838
31 OMF	45,884	13,190	95,212	1,048,214	233,805	14,498	831,124	4,537	12,515	12,842	51,958	7,748	383,477	0	14,791	239,489	2,808,880
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	279,374	0	0	0	279,374
33 CON	2,473	498	138	2,817	421	188	38,140	49	847	387	118	43	4,374	0	124	587	48,983
34 T&T	37,815	8,484	13,898	285,104	98,720	14,524	274,089	8,122	7,582	7,204	19,244	7,878	37,248	0	25,848	5,044	828,361
35 OSP	45,174	13,742	37,998	845,918	90,599	17,580	351,704	13,285	34,241	7,725	93,783	12,351	277,553	0	40,475	9,892	1,891,898
38 OSG	5,242	2,889	1,885	2,859	1,445	1,879	14,548	1,329	5,221	158	3,729	493	4,051	0	2,177	352	47,832
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	881,025	122,977	804,827	10,072,258	1,588,201	471,889	8,359,540	143,738	287,553	216,577	1,018,983	181,452	5,902,024	0	478,515	2,385,899	30,581,518

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = TAI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	105	0	0	0	0	0	0	0	0	0	0	0	0	105
2 WHT	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
3 GRO	889	0	0	0	5	0	5	15	4	0	3,105	0	0	13	0	0	3,838
4 NGC	923	195	4,137	27,898	199,050	19,119	10,782	2,037	15,548	1,388	87,887	1,447	14,850	38,887	0	227	422,132
5 WOL	0	0	0	0	3,881	10,579	328	0	40	0	0	0	5,150	0	0	238	19,998
8 OLP	2,182	27	251	7,785	133,379	23,211	8,048	110	418	188	11,338	1,170	918	1,822	0	2	188,836
7 FOR	0	0	24	1,638	7,860	303	0	0	9	0	338	9	28	198	0	0	10,405
8 FSH	1,029	0	4,538	181,813	823,430	5,023	22,088	899	1,495	51	97,223	80,210	1,980	13,047	0	8	1,012,593
9 COL	0	0	0	0	35	5,210	0	282	8	1,124	22	3	0	41	0	0	8,705
10 OIL	0	0	0	0	0	0	0	0	0	0	22,703	0	0	0	0	0	22,703
11 GAS	13	0	345	1,050	24	0	73	0	0	4,119	0	0	0	0	0	0	5,825
12 OMN	95	214	895	8,783	34,819	4,592	2,833	1,778	453	870	445	7,195	387	2,188	0	108	85,130
13 PCR	20	0	0	1,588	0	0	79	151	0	0	74	0	0	13	0	103	2,038
14 MET	8	0	0	1,048	808,588	0	74	83	127	55	9	0	139	283	0	3	810,357
15 MIL	0	0	0	0	0	0	7	18	0	88	0	0	0	95	0	0	208
18 OFP	21,789	702	12,748	230,988	879,898	8,398	55,308	47,130	10,554	11,337	34,918	8,880	19,818	32,380	0	7,388	1,179,848
17 B&T	91	0	31	5,539	7,855	118	1,544	899	40	14,784	2,208	50	84	3,258	0	108	36,386
18 TEX	171,215	28,712	58,599	472,271	347,884	181,245	307,295	102,853	80,001	150,829	340,314	131,497	1,088,713	831,741	0	83,058	4,334,824
19 WAP	58,984	1,909	82,850	2,733,872	157,808	222	148,454	1,400	2,898	750	30,512	853	8,958	48,307	0	3,592	3,254,838
20 LEA	48,817	15,723	104,455	1,988,508	248,907	55,955	799,080	8,282	4,771	5,844	42,137	21,182	109,408	100,995	0	3,198	3,554,129
21 LUM	48,318	5,885	87,453	1,854,013	548,445	1,122	203,298	1,074	1,538	552	15,045	480	28,402	50,088	0	1,332	2,844,832
22 PFP	12,188	1,857	10,288	101,198	58,851	34,897	35,588	7,993	15,315	8,584	20,147	8,533	39,832	75,550	0	5,074	434,439
23 P&C	7,577	0	0	4,273	78,880	18,032	1,447	5,088	1,179	148	32,833	2,353	879	7,073	0	5	157,345
24 CRP	217,038	20,399	184,325	2,470,203	580,782	82,749	598,185	112,883	52,541	53,395	182,803	100,892	408,832	455,334	0	14,402	5,522,543
25 NMM	38,788	3,298	35,288	541,012	144,443	4,421	158,001	9,337	8,841	3,412	37,342	5,599	12,078	78,327	0	1,472	1,075,836
26 I&S	11,588	1,283	19,542	167,580	251,498	78,228	54,038	37,434	23,912	20,732	21,313	48,492	38,585	48,952	0	1,088	822,207
27 NFM	25,888	12,799	2,878	27,187	152,859	83,772	2,723	10,438	8,983	4,980	39,578	9,452	37,715	91,834	0	390	489,079
28 FMP	112,887	19,928	180,550	1,779,158	217,948	28,098	419,874	13,515	21,211	7,945	63,284	22,128	43,738	55,584	0	1,340	2,995,152
29 TRN	103,958	14,547	112,898	898,549	117,511	25,045	182,808	21,174	7,870	3,347	18,537	9,028	77,434	37,578	0	338	1,828,713
30 OME	524,177	82,238	883,908	10,001,880	1,583,313	422,842	3,829,955	285,123	293,329	99,858	908,153	325,809	1,080,897	1,084,058	0	44,884	21,207,884
31 OMF	118,527	22,882	178,298	2,152,018	880,009	17,908	1,011,823	8,822	18,781	8,942	82,333	17,053	74,337	124,119	0	3,588	4,492,795
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	1,119	209	58	1,410	400	81	8,804	48	292	128	47	35	450	2,422	0	1	15,501
34 T&T	215,415	44,957	71,235	1,878,833	1,184,548	78,785	845,351	100,835	43,181	31,850	97,334	80,007	48,510	280,558	0	1,420	4,783,428
35 OSP	89,325	25,143	88,228	1,850,547	378,850	32,828	374,587	58,835	87,525	11,793	183,750	43,312	124,811	118,510	0	332	3,404,253
36 OSG	15,798	7,499	5,103	8,885	9,155	5,385	23,811	8,885	15,883	382	9,825	2,834	2,777	9,529	0	27	125,009
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1,842,259	309,782	1,887,703	28,000,954	9,013,087	1,184,235	9,097,881	842,517	892,358	444,828	2,321,208	907,101	3,221,488	3,590,525	0	173,842	64,528,312

Table A2: Non-margins exports by source, destination and commodity (\$US'000)

Source = RoW

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	73	0	354	7,182	0	0	84,485	0	0	0	0	0	0	0	0	91,823	193,877
2 WHT	1	47	0	0	0	25,789	55,229	51,882	12,125	10	6,501	2,578	0	0	0	432,255	588,195
3 GRO	21	88	349	52,193	130,554	58,888	148,758	0	29,583	0	15,828	4	0	835	0	780,188	1,198,222
4 NGC	120,022	38,653	679,951	5,359,738	1,403,290	228,428	12,872,290	128,183	87,883	28,434	144,888	177,182	35,879	192,757	9,203	10,954,350	32,258,888
5 WOL	1,380	982	718	18,828	10,864	8,477	384,559	0	0	0	0	0	2,100	1,387	0	374,248	781,520
6 OLP	1,377	15,792	17,800	387,450	211,328	218,888	1,848,298	257	186	185	14,180	10,146	51,343	33,808	5,575	1,347,033	4,159,382
7 FOR	125	883	1,137	4,472	581,864	92,740	811,289	122	48	492	8,838	38,810	2,842	4,732	2,982	851,808	2,201,082
8 FSH	1,364	370	73,825	1,899,358	1,748,783	45,942	2,885,948	853	9,193	1,858	30,108	72,251	9,015	98,324	1,252	1,083,430	7,737,273
9 COL	57	0	881	51,092	509,310	228,881	1,314,227	45	0	0	181	0	0	118,091	0	974,831	3,197,358
10 OIL	348,530	158,829	915,803	17,738,080	9,984,953	2,343,322	25,841,090	367,818	93,241	499,928	1,854,784	498,898	0	0	0	4,731,285	65,372,118
11 GAS	41	8	0	289,397	2,102,833	132,391	4,381,115	0	0	12,994	218	2,082	544	0	0	1,115,087	8,028,487
12 OMN	178,817	24,193	323,487	3,481,278	3,231,283	435,840	7,215,434	80,195	41,800	70,588	45,544	171,737	18,979	428,538	1,954	18,705,500	32,450,903
13 PCR	984	69	3,088	7,717	3	3	24,985	0	805	0	2,433	0	1	82	0	182,581	222,892
14 MET	1,709	908	33,012	552,916	122,287	258	1,847,328	0	19,450	230	20,239	12	5,119	87,592	4	994,975	3,488,048
15 MIL	10,509	182	21,005	121,943	48,091	233	428,142	5,714	4,010	2,979	5,851	684	1,785	1,141	153	538,038	1,188,437
16 OFP	233,338	31,811	309,710	2,810,785	878,095	229,220	7,585,381	18,082	55,238	24,358	71,108	7,021	30,740	20,931	13,814	11,288,120	23,183,314
17 B&T	22,897	4,881	39,718	814,008	81,281	271	433,775	18,573	832	14,788	9,487	888	13,554	0	15,008	889,584	2,318,887
18 TEX	213,358	39,295	275,421	1,427,821	359,923	414,735	8,082,321	7,323	13,829	9,834	81,433	20,604	173,858	135,778	4,828	8,127,828	17,387,182
19 WAP	85,492	4,913	78,584	4,844,289	19,970	412	2,459,251	48	482	5	50,591	70	4,212	28,092	928	4,051,908	11,809,221
20 LEA	88,979	10,995	193,531	2,442,323	102,073	93,700	3,578,408	114	2,818	853	30,725	2,557	91,182	80,898	4,807	3,317,257	9,998,998
21 LUM	44,914	3,568	89,603	1,235,823	237,812	8,788	6,422,855	239	1,159	41	14,528	8,935	28,884	0	538	4,778,288	12,873,507
22 PPP	304,897	22,208	143,328	1,672,127	473,345	95,119	12,336,340	78,078	40,101	17,426	110,381	73,958	88,451	82,504	403	9,924,175	25,440,817
23 P&C	322,591	28,151	282,891	7,254,928	2,739,202	178,511	7,422,588	31,891	17,212	25,859	1,045,745	13,745	20,495	3,178	288	18,820,550	38,205,818
24 CRP	414,841	92,999	428,453	4,112,751	1,788,701	820,559	15,578,420	341,084	125,281	118,947	287,982	309,889	438,928	38,504	50,010	23,472,310	48,197,238
25 NMM	54,000	8,793	88,801	803,936	89,973	29,945	1,504,922	9,012	2,299	1,558	27,441	3,837	18,994	27,589	8,882	1,933,243	4,590,824
26 I&S	101,915	18,380	589,515	2,630,302	1,582,510	394,709	8,887,394	84,410	81,270	117,858	138,158	280,089	82,438	232,581	4,073	12,878,740	28,018,120
27 NFM	101,393	5,222	335,040	3,814,899	2,928,148	283,384	8,828,587	58,785	50,749	5,320	218,748	71,281	47,415	13,908	19,188	7,990,155	24,371,882
28 FMP	88,085	12,965	316,120	1,973,175	1,823,686	82,771	7,334,904	21,289	21,551	2,824	42,084	28,738	15,818	0	2,192	9,735,857	21,597,577
29 TRN	192,182	18,045	480,885	5,720,248	205,314	251,808	11,128,030	51,881	28,054	1,303	80,958	31,717	25,194	33,001	137	14,708,880	32,955,198
30 OME	744,690	109,177	1,985,314	16,398,860	1,205,597	441,877	27,809,220	183,108	129,549	38,241	515,745	247,884	533,200	98,204	36,835	40,209,540	90,884,821
31 OMF	280,177	9,750	98,711	1,902,270	207,797	37,315	2,590,809	749	3,978	598	18,580	8,817	10,781	21,141	2,073	3,828,242	8,997,387
32 EGW	0	0	0	0	0	0	2,138,345	0	0	0	0	0	0	0	0	50,059	2,188,404
33 CON	39,755	9,051	238	7,088	3,245	1,172	4,572,787	138	380	5,074	409	70	428	18,051	5	1,247,123	5,902,955
34 T&T	1,074,071	305,814	359,635	7,858,689	20,983,500	859,050	30,808,030	480,759	8,824	227,734	5,908	289,319	3,894	334,044	47,990	13,180,780	78,383,598
35 OSP	787,328	409,123	1,418,302	39,898,880	9,388,530	843,229	25,721,820	856,543	88,457	133,507	788,801	338,081	104,460	203,897	80,142	13,089,250	93,518,350
36 DSG	298,407	440,207	95,903	10,778	87,044	208,087	1,235,385	184,256	45,453	1,524	35,355	15,153	819	17,353	4,881	778,398	3,437,802
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6,089,899	1,821,703	9,838,808	138,810,918	65,086,928	8,884,483	251,529,444	2,854,723	973,219	1,380,283	5,897,171	2,882,278	1,838,888	2,312,734	295,515	243,179,438	740,854,030

Table A3: Freight supplied by region (\$US'000)

AUS	3005718
NZ	982839
CAN	5197753
USA	12124030
JAP	20519900
KOR	1488408
EEC	82151480
IND	887034
MAL	375715
PHI	2124233
SIN	583572
THA	115805
CHI	1936378
HK	2138884
TAI	2138884
ROW	8785944
TOTAL	144505854

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into AUS

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	3	0	0	0	1	0	0	0	0	8	0	0	0	4	15
2 WHT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3 GRO	0	54	8	13	0	0	1	0	0	0	0	0	8	0	53	2	141
4 NGC	0	448	131	4,784	128	27	1,799	830	1,021	312	984	199	498	34	27	7,484	18,883
5 WOL	0	1,399	0	72	0	0	207	0	0	0	0	0	11	0	0	97	1,788
6 OLP	0	3,242	693	833	17	2	1,822	0	2	2	40	52	189	9	104	110	7,116
7 FOR	0	78	16	5	0	0	102	0	5	1	10	0	0	0	0	18	232
8 FSH	0	1,528	225	278	178	184	597	177	481	100	499	913	9	31	52	113	5,337
9 COL	0	187	218	15	98	0	289	0	0	0	1	0	0	1	0	10	786
10 OIL	0	2,893	0	4	0	0	0	12,065	8,975	0	244	0	391	0	0	58,273	82,645
11 GAS	0	17	2	102	1	0	25	181	0	0	0	0	0	0	1	7	315
12 OMN	0	57	12,438	5,089	2,210	58	4,413	228	7	128	85	728	995	488	7	28,734	58,614
13 PCR	0	0	1	89	0	0	8	0	0	0	1	147	2	0	0	54	283
14 MET	0	522	399	227	3	0	277	1	3	0	10	1	5	39	0	138	1,822
15 MIL	0	333	109	98	0	0	1,788	0	0	0	0	0	0	0	0	821	2,947
16 OFP	0	2,450	3,757	8,278	1,288	953	12,348	285	2,308	270	2,105	2,920	1,118	508	885	18,787	54,215
17 B&T	0	40	70	2,813	88	43	7,992	2	1	1	11	28	7	2	1	1,144	12,042
18 TEX	0	2,500	801	2,877	3,342	2,977	3,885	514	384	127	150	941	3,792	1,858	3,369	3,774	30,889
19 WAP	0	211	11	418	147	825	872	89	23	115	53	254	4,488	1,349	1,121	1,158	11,214
20 LEA	0	942	17	148	103	1,538	1,370	101	97	107	170	432	1,558	309	923	1,185	8,998
21 LUM	0	8,471	10,850	12,538	449	155	8,888	1,230	7,200	1,848	2,787	890	1,085	283	3,471	8,023	83,921
22 PPP	0	11,271	18,890	28,355	5,938	1,718	30,828	590	318	54	3,411	145	554	3,453	874	40,887	143,083
23 P&C	0	1,775	43	18,845	418	81	3,857	387	0	109	18,729	28	162	19	518	54,247	97,985
24 CRP	0	7,525	11,089	95,223	30,840	9,039	98,412	1,153	2,398	1,473	9,229	3,432	5,914	3,411	15,591	55,803	350,110
25 NMM	0	750	342	5,779	4,887	1,178	19,852	943	377	305	355	1,431	2,089	210	2,841	7,241	48,158
26 I&S	0	1,592	750	2,804	17,158	2,740	8,224	17	82	443	855	184	237	2	833	13,887	49,178
27 NFM	0	3,439	788	4,342	5,279	132	5,333	24	1,481	18	388	158	112	442	1,845	13,597	37,374
28 FMP	0	3,870	1,390	11,388	9,782	3,885	15,495	38	528	178	1,532	745	1,828	2,280	8,108	11,541	72,187
29 TRN	0	108	1,181	14,504	4,040	379	424	3	87	8	407	34	89	54	870	5,944	28,107
30 OME	0	8,308	11,979	173,300	100,472	8,858	154,792	193	2,458	517	21,287	1,419	2,378	7,189	17,442	72,485	580,834
31 OMF	0	1,507	1,895	82,989	9,212	2,882	40,718	134	1,415	345	453	518	2,437	1,805	4,084	15,375	145,189
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	81,287	75,448	452,343	195,851	37,108	424,391	19,123	29,857	8,455	81,590	15,582	29,742	23,312	82,800	417,280	1,911,970

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into NZ

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	4
2 WHT	578	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	579
3 GRO	145	0	0	288	0	0	1	0	0	0	0	0	2	0	0	7	444
4 NGC	447	0	37	1,803	150	8	374	288	228	195	148	30	257	47	8	2,424	6,223
5 WOL	9	0	0	0	0	0	108	0	0	0	0	0	21	0	0	88	208
8 OLP	789	0	183	480	4	0	285	0	0	1	28	22	47	2	2	1,285	3,119
7 FOR	71	0	254	108	0	0	9	18	35	9	13	2	3	0	0	144	684
8 FSH	44	0	14	8	591	18	10	0	29	0	30	71	14	8	0	31	885
9 COL	17	0	1	4	0	0	70	0	0	0	0	0	0	0	0	0	92
10 OIL	4,180	0	0	0	0	0	33	1,448	0	0	0	0	723	0	0	24,522	30,884
11 GAS	2	0	0	5	0	0	5	0	0	0	0	0	0	0	0	1	13
12 OMN	703	0	2,483	1,877	49	2	845	11	0	8	83	187	185	71	21	3,788	9,852
13 PCR	33	0	0	55	0	0	0	0	0	0	0	47	2	0	0	4	141
14 MET	194	0	188	58	0	0	8	0	0	0	0	0	3	1	0	73	531
15 MIL	19	0	0	20	0	0	108	0	1	0	0	12	0	0	0	11	170
16 OFP	2,783	0	1,098	1,387	430	58	1,889	23	582	97	858	421	151	37	42	2,290	12,084
17 B&T	113	0	7	385	8	0	1,817	0	0	3	5	4	2	4	0	239	2,383
18 TEX	1,082	0	290	894	749	480	919	68	84	8	32	92	482	474	585	895	8,711
19 WAP	224	0	1	14	13	28	38	5	1	8	5	8	40	107	38	87	813
20 LEA	211	0	4	33	13	134	135	4	4	2	8	21	155	32	309	194	1,258
21 LUM	878	0	948	937	280	43	1,073	95	390	238	410	121	488	47	592	808	7,122
22 PPP	3,495	0	1,292	4,843	1,918	238	7,337	115	111	3	485	25	38	791	172	3,788	24,427
23 P&C	2,585	0	17	3,851	215	121	408	0	82	0	818	0	538	3	0	4,407	12,802
24 CRP	8,938	0	3,098	22,388	7,384	1,370	25,898	71	389	151	1,741	329	897	488	2,123	15,863	91,858
25 NMM	1,113	0	317	1,472	882	180	3,444	50	109	41	119	248	338	44	343	1,500	10,189
26 I&S	2,372	0	803	481	8,974	1,789	2,808	0	8	89	120	4	29	5	131	2,784	18,385
27 NFM	8,812	0	1,405	734	330	59	719	94	113	0	8	1	4	13	1,332	891	14,311
28 FMP	2,783	0	338	2,311	1,525	830	3,101	3	34	23	247	132	243	328	2,074	2,211	18,184
29 TRN	0	0	77	1,578	2,581	510	1,011	1	18	1	148	0	2	3	191	577	8,893
30 OME	8,827	0	2,832	41,192	28,588	2,323	30,182	8	368	88	4,990	88	487	2,235	5,192	11,837	135,181
31 OMF	3,789	0	91	2,028	1,188	840	2,200	19	33	82	80	73	442	580	981	551	12,743
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	53,789	0	15,871	88,183	51,828	8,812	84,408	2,298	2,533	984	10,302	1,915	5,384	5,301	14,118	80,972	428,894

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into CAN

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SW	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	16	42
2 WHT	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	30
3 GRO	2	1	0	4,058	0	1	31	0	0	0	0	0	0	1	0	33	4,124
4 NGC	1,053	1,592	0	12,088	1,089	84	3,845	3,077	2,298	489	1,318	537	2,883	272	258	33,841	64,708
5 WOL	189	323	0	12	0	0	52	0	0	0	0	0	2	0	0	42	818
6 OLP	43	1,044	0	7,783	25	10	1,188	8	0	10	188	5	278	31	21	1,189	11,807
7 FOR	1	0	0	9,538	0	0	48	1	4	8	0	0	0	3	4	147	9,748
8 FSH	83	397	0	8,781	829	284	1,111	102	41	127	359	800	2,110	822	388	5,148	18,778
9 COL	0	0	0	34,798	0	0	8	0	0	0	0	0	0	0	0	114	34,917
10 OIL	0	0	0	3,112	0	0	128,112	0	0	0	0	0	0	0	0	121,458	250,882
11 GAS	0	0	0	3,418	0	4	30	0	0	0	0	0	0	0	80	0	3,512
12 OMN	5,843	0	0	23,025	823	18	10,117	2	0	182	21	563	2,292	255	121	42,900	85,980
13 PCR	10	0	0	0	0	0	10	0	0	0	3	442	5	1	0	130	800
14 MET	7,432	7,849	0	7,784	87	0	884	84	0	0	0	11	8	12	0	2,208	25,908
15 MIL	51	575	0	84	0	0	1,846	0	0	0	0	1	0	0	0	980	3,518
16 OFP	8,335	288	0	21,001	2,552	1,891	12,001	182	2,038	1,594	179	5,499	2,847	808	830	18,482	78,225
17 B&T	851	28	0	0	99	8	7,157	2	0	10	7	8	28	27	2	1,518	9,537
18 TEX	118	52	0	20,811	1,898	2,708	5,282	183	181	45	119	253	2,800	987	1,173	4,872	40,751
19 WAP	25	1	0	1,088	217	1,783	1,158	404	158	277	588	145	980	5,218	1,237	1,390	14,858
20 LEA	87	82	0	2,802	198	4,593	4,838	23	31	185	4	279	2,211	528	2,055	3,423	21,088
21 LUM	84	185	0	2,743	898	440	8,873	4,448	788	1,218	895	788	832	540	8,900	10,288	38,735
22 PPP	207	185	0	8,049	3,153	740	13,780	3	30	10	188	34	387	1,388	1,045	18,458	43,852
23 P&C	1	0	0	21,274	333	1,400	27,085	0	0	0	0	0	0	0	0	37,518	87,812
24 CRP	4,374	1,038	0	18,278	21,828	9,214	55,739	325	831	307	1,478	992	5,914	2,738	18,777	48,984	189,794
25 NMM	344	14	0	2,345	8,398	1,589	13,113	372	185	91	47	212	1,895	400	3,581	10,173	40,528
26 I&S	890	1,189	0	2,971	18,808	7,181	27,813	0	180	21	43	520	280	24	1,989	85,390	125,088
27 NFM	18,001	392	0	3,228	4,123	389	8,383	301	358	0	237	18	735	230	283	38,488	73,132
28 FMP	1,034	1,127	0	7,893	9,080	8,289	18,827	28	218	80	888	143	2,989	2,737	19,393	38,298	107,579
29 TRN	281	78	0	0	3,031	4,027	0	2	27	15	272	3,444	81	18	2,823	12,333	28,180
30 OME	2,851	528	0	0	177,928	42,152	105,455	70	8,000	3,127	23,532	2,335	7,222	15,842	48,152	170,409	805,403
31 OMF	1,378	11	0	29,248	12,004	8,708	9,810	21	304	545	580	788	8,147	5,882	10,719	5,114	81,248
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	53,108	18,733	0	250,000	282,572	84,248	457,982	9,823	15,839	8,300	30,889	17,828	44,403	38,253	120,725	689,273	2,109,173

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into USA

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	1	0	2	0	1	0	2	0	0	0	0	18	0	0	5	172	201
2 WHT	0	0	1,398	0	0	0	4	0	0	0	0	0	0	0	0	0	1,402
3 GRO	5	0	5,752	0	2	5	131	0	0	0	0	4	1	1	0	3,892	9,781
4 NGC	1,003	3,417	3,804	0	1,955	778	14,111	38,288	10,538	4,280	11,533	7,870	4,344	483	1,517	188,595	272,474
5 WOL	12,783	3,148	17	0	0	0	404	0	0	0	0	0	0	0	0	741	17,082
6 OLP	323	3,483	17,995	0	220	72	7,798	349	21	149	204	1,430	8,511	291	573	18,879	58,084
7 FOR	9	4	1,959	0	13	0	825	3	85	25	4	4	3	2	205	417	3,337
8 FSH	8,287	11,128	35,377	0	9,082	12,180	8,879	1,813	886	4,290	3,850	7,880	27,115	1,552	13,992	97,489	240,958
9 COL	8,913	0	4,375	0	9,893	0	3,010	0	0	0	0	0	235	0	0	5,863	28,890
10 OIL	34,148	0	124,101	0	1,408	0	151,813	183,835	18,741	0	1,783	904	58,284	0	0	1,985,952	2,518,757
11 GAS	504	0	113,034	0	81	40	583	759	0	300	0	10,898	43	1	149	33,183	159,562
12 OMN	27,521	84	27,398	0	22,581	2,351	170,200	175	118	911	1,085	20,280	13,820	17,398	1,248	385,838	690,774
13 PCR	0	0	0	0	1	1	21	1	0	0	1	1,904	2	1	74	188	2,182
14 MET	50,298	38,220	17,580	0	200	42	14,421	82	0	20	49	36	41	213	77	28,858	147,933
15 MIL	848	2,405	128	0	8	0	4,181	1	0	0	1	12	3	1	0	3,450	10,833
16 OFF	5,280	988	18,851	0	12,873	9,745	38,421	3,355	11,257	24,011	2,842	33,921	10,916	3,807	14,983	108,793	298,843
17 B&T	2,195	155	0	0	1,584	840	35,038	249	4	150	238	284	813	132	228	18,170	57,878
18 TEX	278	188	9,128	0	13,731	11,835	28,193	1,205	557	774	189	2,258	14,183	3,389	9,292	25,252	120,408
19 WAP	328	135	3,931	0	5,872	49,189	24,595	7,708	5,884	13,387	14,403	5,802	45,947	89,720	53,788	85,884	388,171
20 LEA	239	184	5,353	0	1,018	77,521	32,199	540	115	2,151	109	4,239	19,849	8,214	39,143	43,199	231,851
21 LUM	428	1,783	0	0	8,785	8,880	20,751	24,412	3,823	12,021	5,814	9,850	8,528	3,021	105,377	88,997	207,828
22 PPP	1,239	1,474	0	0	18,523	8,447	21,831	148	484	318	2,934	330	2,887	8,503	8,447	117,730	189,275
23 P&C	4,885	281	54,279	0	4,891	4,288	174,270	28,834	430	119	28,419	8,082	8,242	2	807	804,081	1,117,288
24 CRP	15,235	19,858	0	0	131,895	48,888	180,940	2,222	13,885	2,982	18,984	7,842	38,000	13,327	157,378	289,588	918,580
25 NMM	1,285	1,043	0	0	33,823	10,082	32,717	307	1,079	817	407	1,858	10,444	2,797	34,488	58,803	187,719
26 I&S	11,203	4,091	0	0	102,300	45,474	51,382	4,881	885	1,198	3,387	8,580	3,985	89	10,875	185,183	431,041
27 NFM	55,308	858	0	0	15,537	2,148	21,728	2,374	2,544	21	5,931	802	4,498	880	1,732	254,502	388,858
28 FMP	2,432	2,127	0	0	59,320	54,501	31,852	752	1,538	782	4,817	2,218	22,581	13,171	113,350	138,928	447,925
29 TRN	3,258	813	0	0	210,110	22,155	0	39	553	74	3,817	423	145	123	4,839	52,297	298,445
30 OME	15,703	4,225	0	0	1,427,132	340,297	483,838	822	124,844	48,352	422,528	58,925	71,287	137,892	444,518	824,878	4,384,737
31 OMF	14,418	201	11,270	0	170,425	84,700	151,834	1,334	3,284	7,334	9,959	23,578	112,588	64,782	130,845	92,898	888,304
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	275,851	100,058	458,528	0	2,282,979	798,798	1,863,545	283,443	198,932	124,428	538,802	215,807	482,824	347,731	1,145,509	5,891,247	14,787,182

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into JAP

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2 WHT	5,587	0	15,138	25,571	0	0	0	0	0	0	0	0	0	0	0	0	48,294
3 GRO	7,811	4	10,154	183,208	0	7	1,218	83	0	14	0	70	11,812	0	0	13,491	207,448
4 NGC	3,718	8,480	24,818	98,278	0	2,153	7,844	1,434	921	2,823	808	3,954	8,930	12	1,429	83,850	244,830
5 WOL	29,332	3,789	35	10	0	58	3,414	0	13	0	0	0	5	0	59	732	37,445
8 OLP	5,257	2,485	2,173	38,890	0	535	8,989	248	41	80	381	329	10,030	147	3,414	18,175	84,834
7 FOR	8	3,842	18,207	104,942	0	88	543	88	53,550	404	98	240	4,548	4	548	74,877	259,983
8 FSH	10,241	11,771	28,115	108,170	0	30,440	20,258	10,757	1,324	5,978	3,150	13,213	18,822	2,588	17,802	139,042	417,448
9 COL	149,901	1,780	145,882	82,711	0	7	78	738	0	0	1	0	9,971	0	2	77,018	488,088
10 OIL	2,425	0	2,502	0	0	4	0	98,828	17,405	0	0	0	81,847	0	0	1,509,890	1,712,888
11 GAS	11,728	0	0	19,878	0	5	101	108,995	35,455	0	0	0	0	0	1	317,951	494,110
12 OMN	129,833	2,798	92,873	98,481	0	3,855	101,382	23,985	3,982	21,298	188	10,768	13,372	4,903	1,881	488,817	995,753
13 PCR	1	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	8
14 MET	27,228	7,419	9,803	81,150	0	1,548	39,392	1	39	1	11	4,229	1,888	110	15,579	9,380	197,555
15 MIL	1,839	3,417	278	758	0	0	9,874	0	0	0	19	0	0	0	0	2,681	18,583
18 OFF	11,781	3,714	18,222	44,487	0	7,404	25,942	880	1,810	849	877	4,759	13,151	284	11,759	48,700	192,159
17 B&T	828	45	1,370	22,438	0	0	21,827	0	0	0	0	0	0	0	0	2,912	49,018
18 TEX	795	41	104	8,242	0	9,309	12,808	1,494	751	114	314	817	20,807	558	8,841	8,388	87,180
19 WAP	52	25	41	2,292	0	15,455	3,353	181	28	182	90	588	7,621	3,932	3,105	353	37,258
20 LEA	104	200	173	3,378	0	19,184	9,080	90	12	189	288	232	3,498	4,151	4,858	1,805	47,184
21 LUM	17,730	3,703	70,088	83,900	0	7,831	15,067	28,908	4,749	3,887	2,801	4,240	8,787	245	22,444	24,218	274,245
22 PPP	577	8,109	74,380	77,122	0	1,533	15,832	84	45	348	154	235	825	412	2,318	49,201	229,974
23 P&C	2,370	2,748	5,580	82,022	0	20,483	17,022	34,983	4,988	3,388	53,183	10	17,710	3	3,820	414,210	882,484
24 CRP	3,428	8,303	31,854	257,075	0	24,220	271,108	930	3,382	1,418	7,412	2,704	28,239	1,533	23,788	182,144	845,518
25 NMM	430	115	872	10,520	0	14,095	23,927	888	331	104	278	385	1,845	82	5,911	7,125	68,988
28 I&S	4,053	1,012	1,734	18,381	0	54,041	10,329	3,459	884	1,130	939	579	19,998	1,140	10,292	159,111	284,881
27 NFM	97,527	34,983	33,821	54,843	0	4,797	41,199	9,382	3,088	4,028	5,842	1,524	8,978	183	8,247	298,174	604,781
26 FMP	32,142	1,184	41,088	54,378	0	9,889	48,891	414	873	4,143	2,985	948	2,837	4,394	8,919	195,887	408,723
29 TRN	919	42	885	19,072	0	125	5,383	29	35	97	175	93	1	0	70	3,850	30,758
30 OME	3,382	378	10,084	371,425	0	28,298	185,248	308	10,541	1,758	24,858	7,189	2,478	4,587	23,828	101,479	775,381
31 OMF	4,705	25	1,013	53,822	0	12,809	94,471	207	194	738	844	2,529	7,037	8,915	19,819	13,030	217,955
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	585,325	108,390	838,824	1,957,201	0	287,535	989,707	324,870	144,021	52,483	105,534	59,572	298,515	38,132	184,312	4,238,833	9,977,308

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into KOR

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	585	0	532	17,084	7	0	8,809	0	2	8	3	0	0	0	0	1,842	28,870
3 GRO	481	0	189	42,833	3	0	485	0	1	20	0	3,219	8	9	0	5,990	53,195
4 NGC	788	8	218	35,298	149	0	805	490	1,572	188	347	572	398	34	137	13,970	54,947
5 WOL	5,020	1,011	0	28	7	0	289	0	14	0	0	0	1	3	170	449	8,973
8 OLP	1,249	3,250	3,504	48,503	472	0	7,419	109	1	40	85	38	4,899	415	594	18,931	87,308
7 FOR	0	1,988	1,425	28,447	529	0	103	12	13,718	47	11	18	1	90	21	12,528	58,833
8 FSH	95	734	295	11,585	487	0	603	99	35	4	142	44	107	52	143	3,750	18,135
9 COL	20,348	0	30,553	25,345	10	0	318	180	0	0	0	0	0	79	253	38,188	113,231
10 OIL	1,419	0	219	0	0	0	475	8,129	8,712	0	0	0	0	0	0	370,277	387,231
11 GAS	0	0	0	300	1	0	11	8,597	47	0	0	0	0	0	0	20,920	29,878
12 OMN	14,873	121	20,129	24,729	2,718	0	8,543	419	148	435	137	285	1,128	288	223	88,889	141,023
13 PCR	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
14 MET	1,958	887	47	1,952	25	0	189	1	0	0	1	1	4	0	0	21	5,084
15 MIL	12	27	7	131	0	0	379	0	0	0	1	0	0	1	0	14	572
16 OFF	2,589	390	1,744	5,241	558	0	1,825	333	1,001	238	128	1,515	128	44	145	18,258	32,133
17 B&T	11	0	1	2,277	0	0	1,729	0	0	0	0	0	0	0	0	13	4,032
18 TEX	804	8	572	2,727	11,178	0	2,881	377	81	73	78	144	8,901	719	3,172	7,338	38,852
19 WAP	1	0	1	58	88	0	207	2	1	1	1	2	11	8	4	7	389
20 LEA	172	128	118	2,048	2,775	0	2,720	321	1	18	18	13	125	80	1,101	1,857	11,291
21 LUM	180	139	808	4,498	273	0	1,188	5,904	1,993	40	504	82	23	9	12	1,072	18,808
22 PPP	891	2,300	13,343	42,745	1,185	0	2,811	155	2	5	598	171	3	102	375	11,829	78,094
23 P&C	708	0	7	17,871	8,484	0	5,773	644	258	335	1,829	0	19	27	778	27,891	82,422
24 CRP	2,038	1,255	24,328	110,720	22,198	0	74,018	458	891	203	2,818	274	898	149	890	75,870	318,597
25 NMM	122	0	953	5,278	3,230	0	5,899	342	23	111	147	38	183	30	48	3,881	20,038
28 I&S	2,785	3	2,225	25,784	15,578	0	17,272	20	21	190	309	9	348	101	841	48,257	113,719
27 NFM	18,551	323	10,422	12,834	3,188	0	5,925	630	757	2,524	2,815	118	1,084	188	888	34,847	94,249
28 FMP	2,287	57	1,583	21,813	2,970	0	7,139	5	474	30	791	30	105	247	281	10,120	47,812
29 TRN	52	2	230	9,483	921	0	583	0	0	0	0	0	0	14	15	7,523	18,833
30 OME	1,551	30	5,398	188,002	0	0	107,008	28	743	121	2,953	435	0	0	0	40,754	347,018
31 OMF	71	2	87	8,881	4,521	0	2,918	88	7	50	20	17	443	429	522	2,282	18,094
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	79,208	12,840	118,891	893,850	79,487	0	288,055	25,198	30,300	4,858	13,538	7,034	18,390	3,079	10,413	840,702	2,203,419

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into EEC

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	17	1,888	1	0	4,898	0	0	0	0	1,337	7	0	0	3,518	11,843
2 WHT	3	0	9,908	3,181	1	0	142,201	0	0	0	0	2	0	0	0	3,035	158,309
3 GRO	2,589	524	1,939	28,959	7	0	237,954	0	0	0	0	244	423	12	1	13,213	285,783
4 NGC	11,509	18,591	8,428	88,181	1,988	1,105	729,007	30,539	34,532	3,851	20,788	50,704	35,312	710	779	584,899	1,598,882
5 WOL	80,492	22,727	39	125	88	0	18,858	4	4	0	0	0	81	0	27	19,279	141,711
6 OLP	18,032	19,919	5,840	20,047	2,048	580	378,117	981	142	247	1,339	420	51,284	1,757	553	113,888	815,110
7 FOR	20	142	858	8,429	523	42	82,377	49	195	121	47	3	17	8	0	74,858	145,884
8 FSH	1,832	1,005	11,884	9,086	4,752	2,482	188,538	3,790	408	348	3,083	9,383	3,844	253	2,107	172,851	413,330
9 COL	82,842	223	10,444	181,527	2	0	151,972	424	0	0	0	0	14,271	0	0	179,486	801,171
10 OIL	0	0	757	899	0	0	598,079	4,382	0	0	0	0	883	0	0	3,528,758	4,133,718
11 GAS	229	0	123	283	21	5	350,890	0	0	0	0	0	0	0	13	585,537	947,102
12 OMN	120,445	107	147,701	99,795	17,574	504	733,092	3,839	5,274	3,241	1,583	22,250	20,918	19,098	530	985,311	2,181,038
13 PCR	128	0	1	1,139	1	0	18,001	0	0	0	1	2,429	49	2	5	830	20,884
14 MET	7,114	28,457	2,811	13,314	40	27	728,722	1,580	9	3	80	448	2,979	30	7	101,595	887,992
15 MIL	834	13,122	884	388	29	1	492,889	2	4	0	72	0	0	2	0	17,737	525,304
18 OFF	5,082	1,373	12,535	89,082	12,380	4,448	1,178,994	25,805	23,803	19,852	1,883	27,588	40,498	1,859	4,812	411,852	1,840,915
17 B&T	1,489	214	247	19,347	389	113	345,150	1,531	12	509	280	94	340	45	91	14,380	384,207
18 TEX	498	99	1,585	21,882	13,573	8,385	335,552	2,527	724	282	519	3,022	18,559	2,804	8,048	107,583	519,438
19 WAP	88	1	127	2,802	1,107	7,541	58,879	3,449	908	2,157	4,932	1,777	8,207	38,983	2,881	43,499	173,328
20 LEA	818	920	707	8,384	1,034	23,598	135,285	1,258	171	451	492	3,491	12,991	4,880	15,721	83,259	271,224
21 LUM	815	320	37,388	27,188	3,781	2,881	858,128	35,711	28,820	15,842	18,087	7,253	8,714	1,758	19,292	540,830	1,404,180
22 PPP	715	1,872	82,234	85,351	20,358	3,585	1,113,228	58	551	482	2,989	415	2,431	7,854	3,378	1,038,387	2,344,085
23 P&C	21	0	2,919	75,803	3,878	4	1,833,981	587	4	0	719	2	823	41	282	1,013,599	2,732,403
24 CRP	15,329	7,805	27,788	232,972	188,478	34,454	5,229,424	2,894	8,720	2,881	8,530	12,127	88,527	15,085	58,573	1,311,283	7,218,850
25 NMM	428	113	1,390	9,492	19,845	3,309	882,420	285	380	254	198	2,380	7,757	1,855	14,804	128,874	871,582
26 I&S	374	417	9,848	11,348	19,802	8,848	1,580,908	1,382	892	10	590	341	1,820	120	5,128	579,733	2,219,158
27 NFM	29,584	1,201	24,382	17,988	5,113	178	782,818	2,245	8,007	308	3,347	1,989	5,877	1,298	258	728,293	1,588,972
28 FMP	7,482	1,589	18,540	58,488	40,959	22,335	1,121,553	75	1,243	1,899	5,801	2,503	25,072	14,870	38,844	817,401	1,975,252
29 TRN	2,805	207	230	29,218	157,987	5,120	140,412	236	411	88	2,238	218	313	389	2,078	155,305	498,990
30 OME	28,763	3,884	88,588	574,552	1,532,428	199,408	8,957,480	1,874	88,558	21,512	235,338	30,883	54,881	149,814	270,875	1,972,218	12,187,722
31 OMF	17,485	308	4,334	114,701	117,577	52,127	531,938	780	2,418	3,183	8,800	10,250	70,133	48,820	73,841	153,088	1,207,790
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	434,998	123,017	492,832	1,789,221	2,183,492	378,832	27,298,478	125,824	181,771	77,088	319,592	191,529	451,278	310,011	519,504	15,249,812	50,083,052

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into IND

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	4,483	0	4,127	1,972	0	0	440	0	0	0	0	0	0	0	0	3,875	14,878
3 GRO	8	0	3	515	0	0	1	0	0	18	3	171	205	1	1	0	922
4 NGC	574	102	34	9,918	33	4	303	0	138	38	100	1,340	2,989	34	28	8,300	23,833
5 WOL	81	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
6 OLP	280	380	34	1,292	58	4	90	0	2	0	7	5	1	8	3	21	2,183
7 FOR	0	0	0	132	4	0	1	0	1	0	1	0	0	0	0	18	155
8 FSH	1	5	4	22	50	0	9	0	2	0	5	0	0	3	30	58	188
9 COL	2,864	0	0	80	259	0	37	0	2	0	89	3	49	0	8	7	3,178
10 OIL	1,388	0	0	0	0	0	0	0	8,275	0	0	0	0	0	0	59,722	69,383
11 GAS	1	0	0	8	0	0	8	0	1	0	8	0	0	0	0	0	22
12 OMN	173	83	4,850	2,533	289	87	1,285	0	24	4	1,288	785	379	42	57	13,021	24,839
13 PCR	0	0	0	557	0	0	0	0	3	0	0	524	0	0	1	0	1,084
14 MET	143	151	10	240	3	0	22	0	2	0	5	0	1	1	2	0	579
15 MIL	170	1,222	0	357	1	0	885	0	81	1	11	0	0	0	0	352	3,043
16 OFP	302	892	3,115	1,882	404	292	2,808	0	7,183	53	1,385	1,538	1,152	38	1,087	1,198	23,298
17 B&T	25	0	1	388	4	0	234	0	5	9	25	14	0	0	0	877	1,579
18 TEX	48	11	41	1,003	1,770	878	521	0	134	3	92	111	283	888	2,020	130	7,890
19 WAP	3	0	0	3	8	9	4	0	0	1	2	4	4	18	28	1	80
20 LEA	2	0	1	22	9	283	25	0	1	1	8	12	8	8	183	2	538
21 LUM	30	5	17	222	170	18	504	0	28	0	44	11	14	12	34	38	1,144
22 PPP	344	2,840	7,302	8,587	875	83	5,100	0	137	5	2,584	180	142	308	252	11,815	40,133
23 P&C	878	0	175	4,945	1,009	88	2,071	0	3,852	550	42,884	212	185	30	183	5,178	61,978
24 CRP	3,818	350	13,041	31,751	14,325	2,225	44,379	0	2,252	2,850	27,414	1,113	2,788	513	3,557	52,075	202,247
25 NMM	138	13	57	482	954	228	3,018	0	123	53	558	425	288	17	284	1,378	8,028
26 IAS	1,915	8	85	3,118	12,523	3,490	8,570	0	929	19	4,809	100	920	297	1,179	12,887	50,829
27 NFM	8,390	122	1,389	803	912	278	1,345	0	157	82	1,445	84	151	48	329	8,972	24,470
28 FMP	1,202	12	184	2,801	2,582	588	4,805	0	522	64	1,830	150	448	98	428	3,247	18,859
29 TRN	57	5	82	800	1,108	0	1,342	0	542	2	2,182	171	0	0	0	1,842	8,123
30 OME	1,828	233	1,751	41,942	11,893	0	65,485	0	2,994	177	15,911	1,088	0	0	0	18,278	181,378
31 OMF	229	3	28	238	814	84	1,088	0	9	9	271	11	71	104	150	48	3,150
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	28,705	8,445	38,088	118,898	49,854	8,819	144,157	0	27,377	3,918	102,480	8,011	10,034	2,441	9,788	203,132	757,722

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into MAL

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	1,585	0	1,088	438	0	0	0	0	0	0	148	0	0	0	0	909	4,174
3 GRO	178	17	32	1,988	0	0	11	138	0	0	2,287	4,448	1,011	0	0	3,220	13,308
4 NGC	568	98	407	2,700	40	62	302	1,387	0	105	7,214	1,981	1,383	21	195	5,891	22,173
5 WOL	951	10	0	0	1	0	0	0	0	0	0	0	0	0	1	0	982
6 OLP	277	95	8	248	2	1	145	24	0	0	382	108	44	18	13	15	1,375
7 FOR	0	0	2	8	0	0	7	78	0	0	12	112	0	0	1	8	228
8 FSH	9	19	9	28	202	35	75	774	0	7	742	2,310	3	389	51	783	5,088
9 COL	1,288	0	1	1	0	0	10	720	0	0	223	3	389	0	0	0	2,584
10 OIL	0	0	738	0	0	0	0	1,342	0	0	3,128	0	0	0	0	15,139	20,344
11 GAS	0	0	0	3	0	0	10	0	0	308	4,872	0	0	0	0	0	4,891
12 OMN	2,881	30	1,883	714	247	19	8,280	509	0	9	4,827	714	1,545	48	15	8,755	25,881
13 PCR	1	0	0	0	0	0	0	0	0	0	25	3,837	9	0	0	48	3,718
14 MET	475	314	28	217	0	7	187	20	0	0	897	12	280	30	4	1,598	4,055
15 MIL	423	2,584	205	155	1	0	1,159	0	0	0	183	0	0	0	0	247	4,937
16 OFP	2,899	849	215	2,189	387	108	2,722	3,099	0	220	7,218	4,108	1,300	58	239	4,115	29,307
17 B&T	24	1	1	858	4	0	1,744	37	0	1	517	8	0	0	0	44	3,237
18 TEX	62	19	88	351	1,704	810	314	275	0	19	3,430	318	788	880	1,574	241	10,887
19 WAP	2	0	0	5	14	5	14	21	0	2	207	57	71	71	53	9	531
20 LEA	1	0	0	15	18	78	82	3	0	1	183	41	80	17	94	50	822
21 LUM	18	8	18	200	184	17	258	280	0	24	1,148	59	49	10	48	177	2,484
22 PPP	488	1,118	2,774	5,522	1,050	119	3,159	2,128	0	38	12,518	985	537	280	483	8,122	37,279
23 P&C	254	4	1	712	854	59	789	28	0	1,015	88,787	44	51	23	38	2,795	93,253
24 CRP	2,343	190	5,149	20,055	7,855	851	22,354	2,537	0	992	80,838	2,292	1,259	813	1,855	18,127	148,307
25 NMM	85	7	14	832	474	73	1,750	481	0	37	2,519	573	178	15	218	351	7,582
26 I&S	1,445	590	15	982	8,504	2,045	7,888	1,275	0	72	12,558	180	502	41	753	9,354	45,981
27 NFM	3,404	180	1,472	1,386	1,452	253	1,203	73	0	309	11,901	254	72	81	220	7,748	29,988
28 FMP	418	80	159	3,889	1,597	235	9,540	887	0	52	15,339	498	574	283	888	3,290	37,489
29 TRN	49	3	184	573	830	0	399	403	0	4	3,053	111	0	0	0	1,001	8,420
30 OME	778	189	1,120	81,482	12,913	0	34,497	895	0	5,934	148,888	8,243	0	0	0	12,932	317,828
31 OMF	441	9	30	723	851	213	715	31	0	41	2,858	158	287	288	425	243	7,084
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	20,920	8,150	15,482	138,188	38,784	4,791	95,351	17,420	0	9,189	394,030	31,230	10,379	2,984	8,745	102,010	881,843

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into PHI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
2 WHT	3	0	815	9,557	0	0	0	0	0	0	0	0	0	0	0	1	10,176
3 GRO	31	0	0	398	1	0	0	0	0	0	0	0	0	0	0	0	428
4 NGC	292	44	48	2,822	25	3	177	288	143	0	902	31	127	77	17	1,712	8,483
5 WOL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6 OLP	128	8	87	225	41	0	255	21	1	0	8	11	1	1	5	14	780
7 FOR	0	33	0	1	0	0	12	0	0	0	0	0	0	0	0	86	112
8 FSH	3	0	0	8	1,208	0	1	59	0	0	27	0	0	2	2	141	1,452
9 COL	972	0	0	957	589	0	0	42	0	0	9	0	906	0	38	0	3,511
10 OIL	3,800	0	0	0	0	0	720	0	21,583	0	18	0	2,088	0	0	81,173	109,180
11 GAS	0	0	0	9	131	0	8	0	0	0	0	351	0	0	132	2,110	2,739
12 OMN	173	15	818	2,318	302	45	738	1,871	34	0	403	183	52	20	21	11,456	18,429
13 PCR	0	0	0	2,058	0	0	0	0	0	0	0	20	0	0	0	0	2,078
14 MET	282	7	4	125	0	0	429	0	222	0	209	0	1	8	2	19	1,287
15 MIL	894	1,443	470	1,515	0	0	2,851	91	125	0	85	129	0	1	1	184	7,389
16 OFF	873	113	548	4,378	477	87	2,889	28	432	0	950	857	2,284	118	257	1,815	15,880
17 B&T	88	0	0	1,524	28	0	751	1	8	0	53	2	0	0	0	781	3,232
18 TEX	9	28	132	1,183	1,724	1,139	301	174	223	0	895	130	248	1,590	2,984	170	10,706
19 WAP	1	0	2	247	23	14	27	0	3	0	25	35	1	47	15	0	440
20 LEA	5	1	0	507	348	71	148	8	0	0	8	5	7	47	111	12	1,278
21 LUM	2	0	24	713	48	38	202	0	15	0	84	18	0	11	17	6	1,174
22 PPP	182	1,101	2,247	7,810	518	125	1,385	188	98	0	1,100	42	8	208	270	2,881	17,720
23 P&C	159	0	8	1,077	152	203	471	0	845	0	10,301	0	278	24	5	4,199	17,517
24 CRP	1,553	205	3,885	18,889	5,845	1,285	15,022	4,174	1,725	0	10,483	437	384	887	1,882	18,180	84,116
25 NMM	98	2	51	839	1,901	175	1,159	784	93	0	888	244	49	43	108	238	8,427
26 I&S	792	204	94	770	3,878	2,435	2,508	89	550	0	700	598	419	108	853	17,983	31,757
27 NFM	2,087	57	797	480	884	320	782	335	333	0	1,027	159	74	80	157	812	8,104
28 FMP	242	98	50	3,385	1,082	584	1,227	82	138	0	1,849	123	74	233	250	401	9,798
29 TRN	25	1	9	198	495	0	344	1	8	0	284	10	0	0	0	48	1,397
30 OME	583	83	790	50,579	4,797	0	24,945	92	4,948	0	11,325	1,419	0	0	0	3,818	103,157
31 OMF	250	0	11	415	507	35	555	27	49	0	352	33	29	291	157	38	2,748
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	12,882	3,418	10,448	112,553	24,580	8,519	57,485	8,312	31,348	0	41,522	4,814	7,002	3,748	8,882	147,794	478,284

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into SIN

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	2	2	0	11	0	0	0	0	15
2 WHT	554	0	38	488	0	0	1	0	18	0	0	0	0	0	0	838	1,738
3 GRO	103	0	0	1,011	0	0	8	145	50	1	0	1,122	282	0	183	1,722	4,827
4 NGC	888	323	585	3,812	149	338	837	19,001	40,390	870	0	7,640	2,183	88	1,102	9,388	87,881
5 WOL	31	9	0	0	0	0	3	0	0	0	0	0	0	0	0	0	43
6 OLP	229	48	14	285	33	0	243	808	7,051	2	0	143	314	58	344	1,183	10,512
7 FOR	37	17	38	221	1	0	64	188	545	0	0	81	12	2	29	913	2,134
8 FSH	152	149	29	228	938	181	187	3,153	2,127	89	0	2,743	180	184	3,282	2,585	18,187
9 COL	55	0	2	64	72	0	9	37	3	0	0	0	18	0	1	28	288
10 OIL	5,911	0	0	0	0	0	0	7,188	98,028	0	0	0	20,444	0	728	301,157	433,455
11 GAS	1	0	0	29	0	0	15	925	14	32	0	0	0	0	0	35	1,052
12 OMN	498	55	851	3,253	283	15	5,824	1,917	1,388	13	0	3,014	1,372	88	14	7,385	28,017
13 PCR	10	0	0	88	0	0	0	0	38	12	0	4,205	8	0	0	139	4,478
14 MET	477	918	9	2,827	48	0	1,822	181	80	20	0	501	1,131	28	0	1,882	9,308
15 MIL	809	1,080	38	98	3	1	2,348	3	918	4	0	207	3	0	0	348	5,853
16 OFP	1,534	419	294	3,545	1,204	158	3,758	2,194	24,704	352	0	2,758	3,208	279	780	5,288	50,482
17 B&T	22	3	35	4,979	33	0	8,393	100	854	20	0	80	0	0	0	501	12,820
18 TEX	83	11	79	883	4,280	2,759	1,083	1,805	1,320	32	0	1,188	4,153	2,878	8,898	1,440	28,257
19 WAP	22	1	1	107	251	130	825	525	3,738	39	0	1,058	484	838	800	895	9,389
20 LEA	13	2	1	189	177	479	1,710	102	307	12	0	421	212	429	828	543	5,408
21 LUM	187	321	127	2,100	158	80	2,133	21,385	23,388	88	0	1,124	270	135	474	2,218	54,183
22 PPP	593	2,028	4,013	8,782	3,081	228	5,957	2,893	5,482	81	0	881	1,180	550	835	18,849	53,180
23 P&C	3,730	1	25	12,711	1,987	514	5,423	5,188	18,587	984	0	52	5,083	18	1,047	188,797	228,085
24 CRP	4,029	305	5,798	53,997	15,788	1,935	48,888	4,272	18,813	1,004	0	8,217	3,248	1,849	5,123	40,811	210,952
25 NMM	219	13	45	2,070	3,411	232	9,270	2,158	5,529	183	0	1,770	900	180	1,178	4,190	31,308
26 I&S	2,032	113	322	2,732	13,730	2,800	13,259	1,188	8,873	19	0	2,358	1,201	105	871	20,788	88,372
27 NFM	27,380	2,517	4,898	10,703	4,884	1,235	8,254	18,815	7,019	1,789	0	3,151	889	238	1,247	33,397	125,090
28 FMP	1,210	285	2,952	8,897	7,082	738	13,811	32,801	7,141	189	0	1,983	2,002	738	1,993	8,422	89,131
29 TRW	110	20	397	2,052	1,359	0	1,589	111	3,531	782	0	588	0	0	0	2,887	13,437
30 OME	3,818	404	4,719	220,002	41,828	0	112,998	1,945	131,449	10,575	0	48,730	0	0	0	51,483	828,049
31 OMF	2,533	27	149	22,308	4,419	880	4,831	3,835	3,157	138	0	558	707	1,195	1,411	1,013	48,535
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	57,288	9,048	25,851	389,199	105,020	12,588	248,850	133,424	411,415	17,288	0	80,350	49,281	9,547	28,388	885,788	2,254,048

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into THA

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
2 WHT	349	0	503	1,317	0	0	80	0	0	0	0	0	0	0	0	183	2,442
3 GRO	114	0	1	83	0	0	25	0	0	3	3	0	0	0	0	0	208
4 NGC	351	29	38	4,511	107	10	895	131	82	13	348	0	108	19	18	11,475	17,831
5 WOL	724	100	0	0	0	0	17	0	0	0	0	0	0	0	0	0	841
6 OLP	131	186	48	1,202	97	104	508	95	15	2	235	0	1,038	9	35	833	4,540
7 FOR	0	0	2	24	2	0	7	0	2,337	1	22	0	0	0	1	5,199	7,505
8 FSH	87	405	38	8,027	4,779	939	2,808	1,898	413	171	2,588	0	134	112	2,039	8,155	28,389
9 COL	275	0	0	23	14	0	0	278	0	0	13	0	0	0	0	0	804
10 OIL	551	0	1,308	0	0	0	0	0	18,758	0	23,207	0	0	0	0	80,873	125,784
11 GAS	0	0	0	12	1	0	1	894	100	0	1,728	0	0	0	0	335	3,071
12 OMN	1,231	8	4,283	7,327	305	90	23,879	189	104	108	2,903	0	8	424	231	27,885	88,870
13 PCR	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
14 MET	18	15	0	83	5	0	49	0	0	0	109	0	0	1	0	1	258
15 MIL	282	728	190	588	47	0	2,954	0	2	3	13	0	0	0	0	55	4,739
18 OFF	187	32	328	1,513	898	18	3,072	88	555	28	715	0	14	8	155	523	8,113
17 B&T	2	1	8	1,580	4	0	2,937	125	3	1	175	0	0	0	0	38	4,881
18 TEX	28	58	79	480	1,848	1,308	411	350	151	24	385	0	2,204	718	2,587	384	10,749
19 WAP	1	0	0	5	14	4	18	0	4	8	28	0	8	32	13	1	133
20 LEA	5	1	1	285	39	186	82	8	1	8	9	0	115	18	417	45	1,175
21 LUM	22	0	27	414	149	17	858	3,992	8,480	12	582	0	2	2	15	1,059	13,410
22 PPP	259	874	4,071	4,234	1,083	150	2,874	79	837	8	2,549	0	18	408	300	11,292	28,815
23 P&C	788	0	18	2,054	994	35	1,438	129	773	70	108,939	0	53	1	78	2,232	117,588
24 CRP	1,718	137	3,738	29,110	15,484	3,433	38,770	2,049	3,834	2,459	22,210	0	532	521	3,179	47,282	174,435
25 NMM	125	4	122	983	1,423	95	1,512	58	140	47	448	0	31	42	178	555	5,780
26 I&S	884	3	5,528	3,121	20,817	3,353	10,584	1,380	1,308	225	3,485	0	189	387	1,528	39,708	92,285
27 NFM	7,878	288	3,975	1,352	1,594	359	2,157	2,488	871	182	2,829	0	181	53	298	10,883	34,983
28 FMP	844	21	1,038	3,894	4,879	842	4,088	188	809	387	3,559	0	32	154	887	4,082	24,874
29 TRN	54	2	28	1,750	1,831	0	1,598	54	82	112	887	0	0	0	0	1,131	7,327
30 OME	875	58	2,928	82,057	18,358	0	45,987	118	4,878	10,129	58,871	0	0	0	0	24,742	228,804
31 OMF	127	0	21	1,050	850	187	988	13	71	34	439	0	88	178	388	527	4,817
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17,518	2,944	28,307	134,788	74,780	10,887	147,857	14,553	42,988	14,043	235,038	0	4,734	3,084	12,152	277,585	1,021,033

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into CHI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	7,061	0	138,690	57,572	0	0	550	0	0	0	0	0	0	0	0	0	203,873
3 GRO	1,224	0	1,679	26	0	0	53	0	0	0	0	18	0	3	0	0	3,004
4 NGC	251	21	195	2,754	38	4	412	963	1,743	74	1,912	210	0	13	107	2,194	10,889
5 WOL	5,813	19,274	0	18	0	0	2,177	0	1	0	0	0	0	0	83	146	27,510
6 OLP	570	320	319	2,821	87	9	1,434	1	0	2	138	47	0	43	23	4,006	9,802
7 FOR	0	1,114	2,283	7	4	0	206	0	2,184	3	2	26	0	77	2	384	6,292
8 FSH	22	252	125	60	291	4	192	68	2	102	40	33	0	22	58	738	2,024
9 COL	391	0	1	0	1	0	3	0	0	0	0	0	0	0	0	0	395
10 OIL	0	0	0	0	0	0	0	666	578	0	0	0	0	0	0	0	1,441
11 GAS	0	0	0	20	1	0	17	0	0	38	74	0	0	0	0	66	234
12 OMN	5,128	10	5,513	4,674	180	0	5,626	331	12	216	6	16	0	157	19	2,683	24,548
13 PCR	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
14 MET	375	115	22	278	94	1	1,170	1	2	0	1	38	0	3	4	400	2,502
15 MIL	93	384	8	82	0	0	2,843	0	0	0	1	0	0	1	0	102	3,495
16 OFF	683	1,082	429	1,073	778	75	3,328	145	2,328	467	2,874	193	0	538	343	2,180	18,314
17 B&T	8	0	4	6,528	0	0	3,723	0	0	0	0	0	0	0	0	668	10,832
18 TEX	1,124	35	545	6,192	18,545	8,666	9,580	393	418	67	147	437	0	15,118	20,987	3,075	85,508
19 WAP	9	0	1	49	341	47	122	1	3	22	1	1	0	4,219	137	74	5,028
20 LEA	228	10	33	1,110	740	432	991	69	1	2	36	115	0	1,782	2,153	1,812	9,317
21 LUM	68	124	3,462	1,719	285	31	1,544	17,977	1,876	64	623	223	0	297	264	3,505	32,090
22 PPP	725	2,933	27,650	21,709	1,678	281	8,684	827	153	3	189	182	0	2,757	428	8,389	76,549
23 P&C	981	0	450	3,390	1,412	4	3,129	0	0	42	10,944	1	0	29	43	3,238	23,684
24 CRP	1,195	320	52,579	169,336	17,576	1,365	114,351	2,875	779	1,366	12,748	483	0	7,077	4,397	53,663	440,132
25 NMM	64	0	30	1,545	2,042	172	3,827	147	18	78	156	58	0	304	130	2,322	10,693
26 I&S	233	59	308	7,392	36,418	210	42,906	1,357	33	568	327	51	0	235	394	10,079	100,566
27 NFM	4,382	307	2,658	4,154	1,649	317	6,223	20	180	31	4,855	21	0	368	408	5,797	31,147
28 FMP	828	2	2,049	12,040	2,788	71	7,013	27	64	159	593	71	0	2,623	470	1,834	30,508
29 TRN	11	4	523	4,803	1,972	2	981	0	0	0	0	0	0	1	46	753	8,796
30 OME	1,729	53	7,732	107,974	0	0	254,258	7	341	21	3,194	181	0	0	0	49,199	424,686
31 OMF	153	2	93	1,993	4,057	214	2,919	21	0	1	39	18	0	11,352	2,167	659	23,588
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33,164	26,401	247,379	418,837	90,813	12,127	478,040	26,094	10,692	3,324	38,482	2,405	0	47,004	32,878	157,687	1,825,307

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into HK

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
2 WHT	0	0	231	1,022	0	0	89	0	0	0	0	0	1	0	0	0	1,324
3 GRO	8	0	801	19	0	0	1	0	0	0	0	884	84	0	1	88	1,488
4 NGC	556	157	1,018	11,400	407	147	1,054	0	102	148	571	342	1,325	0	283	11,788	29,278
5 WOL	53	387	0	0	0	2	201	0	9	0	0	0	2	0	0	98	750
6 OLP	133	170	401	1,435	320	89	8,888	300	51	3	417	171	9,180	0	47	2,824	21,987
7 FOR	19	0	38	98	5	0	10	0	1,072	0	83	340	72	0	14	839	2,390
8 FSH	883	188	878	1,313	2,275	120	418	419	54	139	918	850	2,592	0	373	7,883	18,082
9 COL	4,431	0	1	0	8	0	42	1	0	0	0	0	2,175	0	2	18,880	25,319
10 OIL	0	0	0	0	0	0	0	982	0	0	0	0	0	0	0	0	982
11 GAS	0	0	0	11	44	1	19	50	0	383	307	0	100	0	0	0	923
12 OMN	1,042	10	1,178	28,282	2,381	0	52,338	145	18	0	149	1,998	3,147	0	105	87,714	158,515
13 PCR	149	0	0	113	0	0	0	0	0	0	0	82	0	0	0	4	349
14 MET	528	878	322	4,484	283	4	2,144	143	1	10	208	70	3,880	0	7	5,277	18,036
15 MIL	182	178	19	508	1	0	2,082	0	13	1	28	8	48	0	0	88	3,083
16 OFP	1,153	350	379	5,488	3,288	889	8,284	80	258	88	947	595	2,785	0	580	1,484	24,381
17 BAT	21	10	250	8,858	0	0	8,349	0	0	0	0	0	0	0	0	0	13,587
18 TEX	270	98	183	1,889	14,192	10,015	3,297	572	284	80	429	357	31,398	0	18,384	2,402	81,587
19 WAP	43	2	22	488	1,871	405	2,987	509	45	118	120	349	18,005	0	950	497	28,171
20 LEA	23	87	95	841	822	1,125	4,509	70	42	48	124	451	705	0	1,987	1,077	11,987
21 LUM	97	232	889	2,089	204	154	3,419	3,388	734	985	1,879	453	845	0	539	0	15,287
22 PPP	553	988	8,388	8,487	2,898	1,199	8,394	858	298	48	877	434	1,182	0	813	10,087	41,435
23 P&C	488	0	34	0	1,003	378	781	0	59	327	18,112	11	7,989	0	343	502	27,988
24 CRP	1,978	291	3,888	32,305	5,705	1,474	42,285	798	980	773	5,513	2,135	4,747	0	4,898	4,707	112,453
25 NMM	201	5	98	2,011	1,443	181	8,274	148	154	151	389	239	708	0	842	3,373	18,188
26 I&S	319	305	298	1,114	3,301	580	9,241	335	395	0	579	435	1,528	0	527	28,438	47,372
27 NFM	38,477	258	3,828	2,713	1,238	447	4,813	30	183	13	885	72	1,843	0	988	1,700	55,347
28 FMP	918	52	34,534	37,112	1,412	575	12,811	84	380	23	884	231	1,153	0	598	0	90,525
29 TRN	228	10	17	1,224	818	51	379	0	0	0	0	0	85	0	23	988	3,820
30 OME	1,891	429	4,058	50,372	0	0	88,509	18	2,127	803	5,821	820	0	0	0	9,081	143,708
31 OMF	1,724	18	431	7,404	7,842	3,297	12,028	310	117	58	1,340	232	0	0	3,818	1,283	39,709
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	54,327	4,878	59,812	208,898	51,588	20,852	257,244	9,218	7,308	4,181	39,380	11,157	95,097	0	33,880	180,428	1,034,883

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into TAI

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 WHT	0	0	1,410	8,838	0	0	0	0	0	0	0	0	0	0	0	0	10,248
3 GRO	2,244	0	89	54,031	0	0	1	2	0	0	0	239	2	0	0	0	58,587
4 NGC	848	31	575	37,857	587	307	787	382	1,003	174	801	915	1,228	14	0	583	45,877
5 WOL	3,739	481	4	3	1	0	91	0	0	0	0	0	0	0	0	0	4,318
6 OLP	202	300	7,245	14,375	1,727	13	922	14	12	13	349	189	1,858	116	0	435	27,589
7 FOR	148	80	138	23	20	0	184	28	8,853	309	93	148	84	0	0	403	10,285
8 FSH	331	45	813	810	723	705	883	145	58	77	182	108	877	188	0	102	5,814
9 COL	17,858	0	8,104	32,783	3	2	5	503	18	0	0	0	0	0	0	0	59,062
10 OIL	707	0	5,110	2,784	0	0	0	5,083	1,520	0	0	0	0	0	0	0	15,184
11 GAS	0	0	0	258	14	0	8	0	41	4	0	598	0	0	0	0	921
12 OMN	4,782	200	10,844	8,781	2,284	554	3,899	117	98	494	37	422	1,089	93	0	309	31,984
13 PCR	0	0	0	8	0	0	0	0	0	0	0	1	0	0	0	0	8
14 MET	2,974	1,375	42	1,291	28	9	75	3	0	0	21	0	0	1	0	0	5,821
15 MIL	512	821	75	271	1	0	3,098	0	4	0	89	5	0	0	0	9	4,885
16 OFP	990	333	514	8,407	5,977	470	5,098	251	332	194	435	485	283	108	0	988	24,841
17 B&T	0	0	11	7,758	0	0	4,087	0	0	0	0	0	0	0	0	739	12,574
18 TEX	112	5	45	2,118	8,497	1,875	2,159	258	87	25	1,172	149	1,887	435	0	82	18,704
19 WAP	32	0	2	88	432	92	251	3	9	8	21	31	138	514	0	18	1,812
20 LEA	135	45	45	1,152	942	496	1,311	83	19	2	85	142	345	194	0	85	5,041
21 LUM	84	588	1,741	11,488	441	98	1,159	8,771	2,859	258	1,715	253	84	24	0	88	27,405
22 PPP	270	2,831	13,888	28,888	1,787	85	3,412	174	181	18	1,487	100	19	430	0	49	51,195
23 P&C	388	2	40	40,001	3,398	930	8,390	138	5	2	5,510	0	200	0	0	45	57,017
24 CRP	1,798	485	15,788	132,133	21,380	1,195	85,395	811	1,028	484	7,999	1,591	778	288	0	8,114	257,179
25 NMM	141	2	141	3,858	2,802	188	5,208	440	79	32	304	128	57	9	0	817	13,985
26 I&S	759	187	1,487	11,777	17,887	1,143	13,844	385	155	49	387	51	197	142	0	498	48,729
27 NFM	14,587	2,349	8,178	7,035	4,203	475	5,881	192	701	3,590	2,825	110	483	148	0	2,344	62,885
28 FMP	170	108	4,049	228,212	3,258	184	8,188	59	84	52	787	102	54	238	0	288	241,788
29 TRN	4	1	1,838	7,428	1,882	18	1,854	0	0	0	0	0	0	0	0	4	13,008
30 OME	1,019	252	3,820	175,444	0	0	101,474	29	1,030	141	4,850	879	0	0	0	3,399	292,138
31 OMF	548	1	271	8,520	7,732	1,295	2,357	80	48	42	214	72	374	438	0	127	20,098
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	55,154	10,280	85,885	828,125	85,941	10,112	235,320	15,892	17,787	5,940	28,902	8,718	9,822	3,381	0	17,439	1,418,288

Table A4: Freight reallocated by source, destination and commodity (\$US'000)

On imports into RoW

	AUS	NZ	CAN	USA	JAP	KOR	EEC	IND	MAL	PHI	SIN	THA	CHI	HK	TAI	ROW	TOTAL
1 PDR	1	0	9	1,722	0	6	459	0	0	0	0	152	0	0	0	4,417	6,788
2 WHT	78,028	35	98,197	202,939	0	1	82,781	0	0	0	10	0	0	0	0	28,436	490,427
3 GRO	8,976	580	12,377	318,328	0	5	107,588	0	3	10	124	1,897	23	0	0	76,500	523,187
4 NGC	9,703	5,893	8,080	108,013	1,257	518	158,012	20,039	24,009	1,739	37,839	9,499	3,849	181	17	573,631	957,988
5 WOL	84,843	21,482	0	39	0	0	4,118	0	0	0	0	0	0	0	20	27,118	137,819
6 OLP	19,995	3,214	5,970	47,324	328	78	77,368	10	48	22	312	47	4,584	34	0	95,950	245,188
7 FOR	84	28	888	1,188	39	5	34,064	27	7,988	42	1,028	10	0	0	0	38,148	81,502
8 FSH	57	885	3,748	4,883	10,551	1,813	38,385	42	135	338	1,110	229	806	38	1	70,722	131,316
9 COL	74,237	8	17,553	98,184	58	2	20,235	280	0	0	43	8	0	0	0	74,102	282,085
10 OIL	1	0	0	1	0	0	55,158	3,328	15,244	0	0	0	0	0	0	398,247	471,977
11 GAS	12	1	28	24,581	12	28	35,890	102	111	597	804	4	18	0	0	15,582	77,547
12 OMN	21,320	124	184,873	90,913	8,525	733	782,051	1,075	475	1,208	3,205	18,928	2,775	812	19	2,149,739	3,244,574
13 PCR	0	0	0	24,874	12	33	5,508	0	0	0	53	51,954	0	0	7	12,847	95,187
14 MET	13,014	22,459	1,711	38,181	227	45	131,248	1	148	0	1,233	194	143	40	0	58,797	285,418
15 MIL	5,738	29,898	3,824	12,908	2	5	148,251	152	118	0	3,182	108	0	49	0	9,481	211,720
16 OFP	11,831	2,723	12,525	212,924	13,917	5,840	471,828	10,201	85,235	3,888	28,448	13,077	1,442	990	844	1,895,205	2,518,295
17 BAT	3,892	258	232	37,598	1,193	574	114,598	139	511	394	5,258	43	80	1,209	7	128,532	294,314
18 TEX	510	122	2,180	37,258	28,225	34,342	151,381	2,088	404	89	4,237	4,081	9,772	7,111	1,634	1,201,316	1,484,707
19 WAP	98	18	91	22,250	819	5,881	28,550	1,031	259	829	1,848	4,210	15,171	13,848	71	598,898	891,844
20 LEA	854	89	383	8,458	307	9,008	80,218	82	19	42	527	1,091	3,583	978	83	490,312	575,751
21 LUM	945	1,734	11,448	74,387	8,188	7,207	318,002	59,892	20,293	5,088	53,481	8,808	2,072	1,184	209	708,259	1,272,892
22 PPP	4,800	9,722	72,709	187,329	28,117	18,088	443,875	8,228	2,848	131	21,855	4,977	1,485	8,295	795	1,488,957	2,273,883
23 P&C	82,295	3,255	5,702	184,422	12,950	11,848	811,858	0	388	5,555	90,862	7,598	2,077	0	1	2,488,184	3,714,570
24 CRP	18,411	8,880	57,979	859,087	308,302	158,305	2,897,338	15,357	14,773	8,108	114,007	41,120	32,498	14,840	2,257	3,489,358	8,018,378
25 NMM	2,588	1,232	2,789	38,939	35,997	13,322	324,512	17,898	8,585	438	11,329	4,857	7,291	1,838	231	285,748	753,389
26 I&S	14,842	3,501	15,187	113,639	400,298	84,839	874,981	1,489	8,238	43	19,988	8,124	1,981	578	187	1,903,285	3,448,878
27 NFM	23,483	941	24,844	54,855	11,895	10,538	301,009	3,854	8,301	118	15,305	1,077	1,817	1,182	81	1,180,997	1,639,436
28 FMP	12,773	4,287	41,754	142,898	85,448	72,570	845,778	144	4,778	400	30,889	8,799	18,988	11,203	210	1,438,893	2,515,088
29 TRN	4,422	422	8,711	0	178,585	59,717	32,978	151	478	28	28,783	918	396	77	13	2,173,742	2,487,414
30 OME	38,115	8,398	102,814	1,330,278	1,323,337	243,402	4,089,112	2,075	19,295	975	183,593	10,063	44,202	79,807	4,817	5,943,224	13,420,925
31 OMF	42,890	245	2,158	74,851	47,432	18,888	393,889	980	1,224	399	7,889	4,325	15,888	18,837	244	585,839	1,193,454
32 EGW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33 CON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34 T&T	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35 OSP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36 OSG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37 OOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	576,013	127,943	878,288	4,354,383	2,497,798	755,197	13,830,184	148,378	201,889	30,413	884,985	197,805	188,709	159,885	11,289	29,325,423	53,528,558

APPENDIX B: CONCORDANCES BETWEEN SALTER AND GBH COMMODITIES AND REGIONS

GBH provide commodity and route specific trade margins. This appendix provides the concordance necessary to apply these margins to the SALTER database.

Table B1 provides the commodity concordance.

Table B1: Concordance between SALTER commodities and GBH commodities

<i>SALTER commodities</i>			<i>GBH commodities</i>
1	PDR	Paddy rice	RICE
2	WHT	Wheat	WHEAT
3	OGR	Other grains	CORN&OTHER GRAIN
4	NGC	Non-grain crops	TROPICAL CROPS
5	WOL	Wool	NONEDIBLE CROP
6	OLP	Other livestock products	MEAT & LIVE STK
7	FOR	Forestry products	FORESTRY PRODUCTS
8	FSH	Fishery products	FISH & PRODUCTS
9	COL	Coal (recovery)	MINING&RESOURCES
10	OIL	Oil (recovery)	MINING&RESOURCES
11	GAS	Gas (recovery)	MINING&RESOURCES
12	OMN	Other minerals	MINING&RESOURCES
13	PCR	Processed rice	RICE
14	MET	Meat products	MEAT & LIVE STK
15	MIL	Milk products	DAIRY
16	OFP	Other food products	OTHER FOOD
17	B&T	Beverages and tobacco products	OTHER FOOD
18	TEX	Textiles	LIGHT INDUSTRY
19	WAP	Wearing apparel	LIGHT INDUSTRY
20	LEA	Leather goods	LIGHT INDUSTRY
21	LUM	Lumber and products	BASIC INTERMEDIATE
22	PPP	Pulp, paper and printing	BASIC INTERMEDIATE
23	P&C	Petroleum and coal products	MINING&RESOURCES
24	CRP	Chemicals and rubber products	BASIC INTERMEDIATE
25	NMM	Non-metallic mineral products	BASIC INTERMEDIATE
26	I&S	Primary iron and steel	BASIC INTERMEDIATE
27	NFM	Primary non-ferrous metals	BASIC INTERMEDIATE
28	FMP	Fabricated metal products	BASIC INTERMEDIATE
29	TRN	Transport equipment	FINISHED CAPITAL GDS
30	OME	Other machinery and equipment	HIGH TECH
31	OMF	Other manufacturing	INTERMEDIATE MNFS

Table B2 provides the concordance between SALTER and GBH regions used for trade flow sources. There are a total of 256 bilateral flows in SALTER for which to account. Korea, China, Taiwan and Hong Kong are considered to be old NICs (China primarily because of its geographic proximity to the others in this group), the ASEAN countries are new NICs and Brazil is used to represent the ROW.

For trade between Korea, China, Taiwan and Hong Kong (in the old NIC group) we use the commodity-specific minimum margin between old NICs and Japan. This is to represent movements in the China Sea. For trade among ASEAN countries (all in the new NIC group), we use the minimum margin in trade between old NICs and new NICs.

The minimum margin between the EC and other Western European (GBH code OWE) economies is applied to trade within the EC. The maximum margins on trans-Atlantic trade between the EC and Brazil are applied to trade within the ROW region.

Other intra-regional trade does not have a margin. Similarly, services are assumed not to have any trade margins.

Table B2: Concordance between SALTER regions and GBH regions

<i>SALTER</i>	<i>GBH</i>
Australia	Australia
New Zealand	New Zealand
Canada	Canada
United States	United States
Japan	Japan
Korea	Old NICs ^a
European Community	European Community
Indonesia	New NICs
Malaysia	New NICs
Philippines	New NICs
Singapore	New NICs
Thailand	New NICs
China	Old NICs
Hong Kong	Old NICs
Taiwan	Old NICs
Rest of the world	Brazil

^a Newly industrialised countries

APPENDIX C: TABLO CODE USED FOR THE COMPUTATIONAL PHASE OF THE TRADE DATA GENERATION

TABLO code segment SETS.TAB - the set definitions used in each piece of TABLO code. This code should replace '\$INCLUDE SETS.TAB' wherever this occurs in subsequent files of TABLO code with an extension '.TIB'.

file pars #Set sizes#;

coefficient (integer) no_reg #Number of regions#;
read no_reg from file pars header "nreg";
set reg maximum size 16 size no_reg;

coefficient (integer) no_non_intra
#Number of regions with no intra-region services trade#;
read no_non_intra from file pars header "nnin";
set non_intra maximum size 16 size no_non_intra;
subset (by_numbers) non_intra is subset of reg
read element numbers from file pars header "nint";

coefficient (integer) no_com #Number of commodities#;
read no_com from file pars header "ncom";
set com maximum size 38 size no_com;

coefficient (integer) no_merc #Number of merchandise commodities#;
read no_merc from file pars header "nmer";
set merc maximum size 38 size no_merc;
subset (by_numbers) merc is subset of com
read element numbers from file pars header "merc";

coefficient (integer) no_serv #Number of non-merchandise commodities#;
formula no_serv=no_com-no_merc;
set serv maximum size 38 size no_serv;
subset (by_numbers) serv is subset of com
read element numbers from file pars header "nonm";

coefficient (integer) no_serv1
#Number of non-merchandise commodities for which trade data available#;
read no_serv1 from file pars header "ns1";
set serv1 maximum size 38 size no_serv1;
subset (by_numbers) serv1 is subset of serv
read element numbers from file pars header "ser1";

coefficient (integer) no_serv2
#Number of non-merchandise commodities for which trade data unavailable#;
formula no_serv2=no_serv-no_serv1;
set serv2 maximum size 38 size no_serv2;

```
subset (by_numbers) serv2 is subset of serv
  read element numbers from file pars header "ser2";
```

```
coefficient (integer) no_serv3
#Number of trade and transport commodities#;
formula no_serv3=1;
set tnt maximum size 38 size no_serv3;
subset (by_numbers) tnt is subset of serv
  read element numbers from file pars header "trtr";
```

```
coefficient (integer) no_rep #Number of reporter countries#;
read no_rep from file pars header "nrep";
set rep maximum size 16 size no_rep;
subset (by_numbers) rep is subset of reg
  read element numbers from file pars header "rep";
```

```
coefficient (integer) no_nonrep #Number of non-reporter countries#;
formula no_nonrep=no_reg-no_rep;
set nonrep maximum size 16 size no_nonrep;
subset (by_numbers) nonrep is subset of reg
  read element numbers from file pars header "nonr";
```

```
coefficient (integer) coeff_1;
formula coeff_1=1;
set row maximum size 1 size coeff_1;
subset (by_numbers) row is subset of reg
  read element numbers from file pars header "nreg";
```

```
set first_com maximum size 1 size coeff_1;
subset (by_numbers) first_com is subset of merc
  read element numbers from file pars header "com1";
```

```
set single (s1);
```

TABLO code segment STEP3X1G.TIB

```
zerodivide (zero_by_zero) default 0.0;
zerodivide (nonzero_by_zero) default 0.0;
```

```
file trade;
file target;
```

```
file (new) new_trade;
```

```
$INCLUDE SETS.TAB
```

```
coefficient
```

```
tmp;
```

```
(all,r,reg)(all,i,com) trade_row(r,i);
```

```

trade_rowc;
(all,s,reg)(all,d,reg)(all,i,com) exports(s,d,i);
(all,s,reg)(all,d,reg)(all,i,com) imports(s,d,i);
(all,s,reg)(all,d,reg)(all,i,com) n_exports(s,d,i);
(all,s,reg)(all,d,reg)(all,i,com) n_imports(s,d,i);

(all,r,reg) row_flag(r) #Flags rest of world#;

exp_world #World exports f.o.b.#;
merc_world #World merchandise exports f.o.b.#;

(all,s,reg)(all,d,reg)(all,i,merc) rt(s,d,i) #Target cif/fob ratios#;
maximprat;

read exports from file trade header "exp";
read n_imports from file trade header "imp";
read rt from file target header "r";

formula (all,s,reg)(all,d,reg)(all,i,merc:rt(s,d,i)<1) rt(s,d,i)=1;

formula

(all,r,reg) row_flag(r)=0;
(all,r,row) row_flag(r)=1;

formula

(all,s,reg)(all,d,reg)(all,i,merc)
    imports(s,d,i)=n_imports(s,d,i);
(all,s,reg)(all,d,reg)(all,i,merc:n_imports(s,d,i)<exports(s,d,i))
    imports(s,d,i)=rt(s,d,i)*exports(s,d,i);
(all,s,reg)(all,d,reg)(all,i,merc:n_imports(s,d,i)=0 and exports(s,d,i) ne 0)
    imports(s,d,i)=exports(s,d,i)*rt(s,d,i);
                                                                    !f3! !eq 5!

(all,s,reg)(all,d,reg)(all,i,merc) n_exports(s,d,i)=exports(s,d,i);
(all,s,reg)(all,d,reg)(all,i,merc:n_exports(s,d,i)=0 and imports(s,d,i) ne 0)
    exports(s,d,i)=imports(s,d,i)/rt(s,d,i);
                                                                    !f4! !eq 4!

(all,s,reg)(all,i,merc) trade_row(s,i)=sum(r,row,exports(s,r,i));
(all,s,reg)(all,i,merc)(all,r,row) imports(s,r,i)
    =rt(s,r,i)*trade_row(s,i);
                                                                    !f3! !eq 5!

(all,d,reg)(all,i,merc) trade_row(d,i)=sum(r,row,imports(r,d,i));
(all,d,reg)(all,i,merc)(all,r,row) exports(r,d,i)
    =trade_row(d,i)/rt(r,d,i);
                                                                    !f4! !eq 4!

! New treatment of intra-rest of world trade. Uses target total for rest of
  world trade, merchandise trade ratio and trade between rest of world and

```

SALTER regions to calculate total merchandise intra-rest of world trade.
This is then distributed across commodities according to shares calculated
from trade in each commodity between the rest of the world and SALTER
regions !

```
coefficient (all,s,reg) exp_targ(s) #Merchandise target exports#;
              (all,d,reg) imp_targ(d) #Merchandise target imports#;
              (all,s,reg) exp_tot(s) #Total target exports#;
              (all,d,reg) imp_tot(d) #Total target imports#;
              cftarg;
              (all,s,reg) exp_mercreat(s);
              (all,d,reg) imp_mercreat(d);
              tot_row;
```

```
read exp_mercreat from file target header "exmr";
read imp_mercreat from file target header "immr";
read exp_tot from file target header "exp";
read imp_tot from file target header "imp";
read cftarg from file target header "over";
read maximprat from file target header "mimr";
read exp_world from file target header "expw";
read merc_world from file target header "merw";
```

formula

! Calculate exports and merchandise to total trade ratio for the rest of the
world using differences between world total and merchandise exports and the
total and merchandise (target) exports for SALTER regions !

```
tmp=exp_world-sum(s,reg:row_flag(s)=0,exp_tot(s));
(all,r,row) exp_tot(r)=tmp;
tmp
=[merc_world-sum(s,reg:row_flag(s)=0,exp_mercreat(s)*exp_tot(s))]
/sum(r,row,exp_tot(r));
(all,r,row) exp_mercreat(r)=tmp;
```

! Calculate imports for the rest of the world using the fact that total
(ie. merchandise + services) world exports f.o.b. equals world
imports c.i.f. !

```
tmp=exp_world-sum(d,reg:row_flag(d)=0,imp_tot(d));
(all,r,row) imp_tot(r)=tmp;
```

```
(all,s,reg) exp_targ(s)=exp_tot(s)*exp_mercreat(s);
```

```
(all,d,reg) imp_targ(d)=imp_tot(d)*imp_mercreat(d);
(all,d,row) imp_targ(d)=0;
```

! Calculate merchandise to total trade for rest of world imports !

```
(all,r,row) imp_mercreat(r)=min([cftarg*sum(s,reg,exp_targ(s))
-sum(d,reg,imp_targ(d))]/sum(d,row,imp_tot(d)),maximprat);
```

!{f1}! !{eq 1}!

(all,d,row) imp_targ(d)=imp_tot(d)*imp_mercrat(d);
(all,s,row) exp_targ(s)=0;

! Calculate merchandise to total trade for rest of world exports !

(all,r,row:imp_mercrat(r)=maximprat) exp_mercrat(r)=
[-cftarg*sum(s,reg,exp_targ(s))
+sum(d,reg,imp_targ(d))]/[cftarg*sum(s,row,exp_tot(s))];

!{f2}! !{eq 2}!

(all,s,row) exp_targ(s)=exp_tot(s)*exp_mercrat(s);

! Now calculate intra-rest of world trade !

(all,r,row)(all,i,merc) trade_row(r,i)=sum(d,reg:row_flag(d)=0,exports(r,d,i))
*sum(s,reg:row_flag(s)=0,exports(s,r,i))
/sum(s,reg,sum(d,reg:row_flag(s)=0 and row_flag(d)=0,exports(s,d,i)));

!{f5}! !{eq 8}!

trade_rowc=sum(r,row,sum(i,merc,trade_row(r,i)));

tot_row=sum(r,row,exp_tot(r)*exp_mercrat(r))-sum(i,merc,sum(s,row,
sum(d,reg:row_flag(d)=0,exports(s,d,i))));

(all,r,row)(all,i,merc) exports(r,r,i)=tot_row*trade_row(r,i)/trade_rowc;

!{f6}! !{eq 10}!

(all,r,row)(all,i,merc) trade_row(r,i)=sum(d,reg:row_flag(d)=0,imports(r,d,i))
*sum(s,reg:row_flag(s)=0,imports(s,r,i))
/sum(s,reg,sum(d,reg:row_flag(s)=0 and row_flag(d)=0,imports(s,d,i)));

!{f7}! !{eq 9}!

trade_rowc=sum(r,row,sum(i,merc,trade_row(r,i)));

tot_row=sum(r,row,imp_tot(r)*imp_mercrat(r))-sum(i,merc,sum(d,row,
sum(s,reg:row_flag(s)=0,imports(s,d,i))));

(all,r,row)(all,i,merc) imports(r,r,i)=tot_row*trade_row(r,i)/trade_rowc;

!{f8}! !{eq 11}!

(all,s,reg)(all,d,reg)(all,i,serv) imports(s,d,i)=n_imports(s,d,i);

write imports to file new_trade header "imp";
write exports to file new_trade header "exp";
write imports to file new_trade header "imp0";
write exports to file new_trade header "exp0";

file (new) new_target;

write exp_targ to file new_target header "exp";

```

write imp_targ to file new_target header "imp";
write exp_mercrat to file new_target header "exmr";
write imp_mercrat to file new_target header "immr";
write rt to file new_target header "r";

```

TABLO code segment STEP3X2.TIB

```

zerodivide default 1.0;

```

```

file trade #Trade data#;
file target #Target trade totals#;

```

```

$INCLUDE SETS.TAB

```

```

coefficient
(all,s,reg)(all,d,reg)(all,i,com) exp0(s,d,i) #Original exports FOB#;
(all,s,reg)(all,d,reg)(all,i,com) imp0(s,d,i) #Original imports CIF#;

```

```

read exp0 from file trade header "exp0";
read imp0 from file trade header "imp0";

```

```

coefficient
(all,s,reg)(all,d,reg)(all,i,com) exp_(s,d,i) #Exports FOB#;
(all,s,reg)(all,d,reg)(all,i,com) imp_(s,d,i) #Imports CIF#;
(all,s,reg)(all,d,reg)(all,i,com) frt(s,d,i) #Freight#;

```

```

read exp_ from file trade header "exp";
read imp_ from file trade header "imp";

```

```

! ** Defining totals of exports, imports and freight required for shares
and target totals !

```

```

coefficient
(all,s,reg) exp_targ(s);
(all,d,reg) imp_targ(d);
(all,s,reg)(all,d,reg)(all,i,merc) rtarg(s,d,i);

```

```

read exp_targ from file target header "exp";
read imp_targ from file target header "imp";
read rtarg from file target header "r";

```

```

formula (all,s,reg)(all,d,reg)(all,i,merc:rtarg(s,d,i)<1) rtarg(s,d,i)=1;

```

```

! ## End of defining totals of exports and imports required for shares
and target totals !

```

```

coefficient (all,s,reg)(all,d,reg)(all,i,merc) tmp1(s,d,i);

```

```

! Have chosen maximum rather than geometric mean !

```

```

formula

```

```
(all,s,reg)(all,d,reg)(all,i,merc)
! tmp1(s,d,i)=(exp0(s,d,i)*imp0(s,d,i)/rtarg(s,d,i))^0.5;!
tmp1(s,d,i)=max(exp0(s,d,i),imp0(s,d,i)/rtarg(s,d,i));
```

!{f1}! !{eq 15}!

```
(all,s,reg)(all,d,reg)(all,i,merc)
exp_(s,d,i)=tmp1(s,d,i);

(all,s,reg)(all,d,reg)(all,i,merc)
! tmp1(s,d,i)=(imp0(s,d,i)*exp0(s,d,i)*rtarg(s,d,i))^0.5;!
tmp1(s,d,i)=max(imp0(s,d,i),exp0(s,d,i)*rtarg(s,d,i));
```

!{f2}! !{eq 16}!

```
(all,s,reg)(all,d,reg)(all,i,merc)
imp(s,d,i)=tmp1(s,d,i);

(all,s,reg)(all,d,reg)(all,i,merc)
tmp1(s,d,i)=imp(s,d,i)-exp_(s,d,i);

coefficient totfrt;
formula totfrt=sum(i,merc,sum(s,reg,sum(d,reg,tmp1(s,d,i))));
```

!{f3}! !{eq 18}!

```
(all,s,reg)(all,d,reg)(all,i,merc)
frt(s,d,i)=tmp1(s,d,i)*sum(s_,reg,imp_targ(s_)-exp_targ(s_))/totfrt;
```

!{f4}! !{eq 19}!

display tmp1;frt;formula

```
(all,s,reg)(all,d,reg)(all,i,merc)
tmp1(s,d,i)={frt(s,d,i)+[frt(s,d,i)^2+4*imp(s,d,i)*exp_(s,d,i)]^0.5}/2;
! NB: imp(s,d,i) omitted from denominator compared with equation (31) !
```

!{f5}! !{eq 31}!

display tmp1;formula

```
(all,s,reg)(all,d,reg)(all,i,merc)
exp_(s,d,i)=tmp1(s,d,i)-frt(s,d,i);

(all,s,reg)(all,d,reg)(all,i,merc)
imp(s,d,i)=tmp1(s,d,i);

(all,s,reg)(all,d,reg)(all,i,merc)
rtarg(s,d,i)=imp(s,d,i)/exp_(s,d,i);
```

!{f6}! !{eq 32}!

file (new) new_trade;

```
write exp_ to file new_trade header "exp";
write imp_ to file new_trade header "imp";
write exp_targ to file new_trade header "texp";
write imp_targ to file new_trade header "timp";
```

write rtarg to file new_trade header "r";
write frt to file new_trade header "frt";

TABLO code segment STEP3X3.TIB

file trade;

\$INCLUDE SETS.TAB

coefficient

(all,s,reg)(all,d,reg)(all,i,com) exp_(s,d,i) #Exports FOB#;
(all,s,reg)(all,d,reg)(all,i,com) imp(s,d,i) #Imports CIF#;
(all,s,reg) exp_targ(s);
(all,d,reg) imp_targ(d);
(all,s,reg)(all,d,reg)(all,i,merc) rtarg(s,d,i);
(all,s,reg)(all,d,reg)(all,i,com) tmp(s,d,i);
(all,s,reg)(all,d,reg)(all,i,com) tmp1(s,d,i);
(all,s,reg) expdc(s);
(all,d,reg) impsc(d);

read exp_ from file trade header "exp";
read imp_ from file trade header "imp";
read exp_targ from file trade header "texp";
read imp_targ from file trade header "timp";
read rtarg from file trade header "r";

formula

(all,s,reg)(all,d,reg)(all,i,merc:rtarg(s,d,i)<1) rtarg(s,d,i)=1;

(all,s,reg) expdc(s)=sum(d_,reg,sum(i_,merc,exp_(s,d,i_)));
(all,s,reg)(all,d,reg)(all,i,merc)
tmp(s,d,i)=exp_(s,d,i)*exp_targ(s)/expdc(s);

!{f1}! !{eq 39}!

(all,s,reg)(all,d,reg)(all,i,merc) tmp1(s,d,i)=tmp(s,d,i)*rtarg(s,d,i);

!{f2}! !{eq 40}!

(all,d,reg) impsc(d)=sum(s_,reg,sum(i_,merc,tmp1(s_,d,i_)));
(all,s,reg)(all,d,reg)(all,i,merc)
tmp(s,d,i)=tmp1(s,d,i)*imp_targ(d)/impsc(d);

!{f3}! !{eq 41}!

update (explicit) (all,s,reg)(all,d,reg)(all,i,serv) exp_(s,d,i)=exp_(s,d,i);
update (explicit) (all,s,reg)(all,d,reg)(all,i,merc)
exp_(s,d,i)=tmp(s,d,i)/rtarg(s,d,i);

!{u1}! !{eq 42}!

update (explicit) (all,s,reg)(all,d,reg)(all,i,serv) imp(s,d,i)=imp(s,d,i);
update (explicit) (all,s,reg)(all,d,reg)(all,i,merc) imp(s,d,i)=tmp(s,d,i);

variable y;x;

equation dummy y=max(1,sum(s,reg,sum(d,reg,sum(i,merc:exp_(s,d,i)<0,1))))*x;

TABLO code segment STEP3X4.TIB

file trade;
file old_trade;

\$INCLUDE SETS.TAB

coefficient

(all,s,reg)(all,d,reg)(all,i,com) exp_(s,d,i) #Exports FOB#;
(all,s,reg)(all,d,reg)(all,i,com) imp_(s,d,i) #Imports CIF#;
(all,s,reg)(all,d,reg)(all,i,com) frt(s,d,i) #Freight#;
(all,s,reg) exp_targ(s);
(all,d,reg) imp_targ(d);
(all,s,reg)(all,d,reg)(all,i,com) tmp(s,d,i);
(all,s,reg)(all,d,reg)(all,i,com) tmp1(s,d,i);
(all,s,reg) expdc(s);
(all,d,reg) impsc(d);
(all,s,reg) frtdc(s);

read exp_ from file trade header "exp";
read imp_ from file trade header "imp";
read exp_targ from file old_trade header "texp";
read imp_targ from file old_trade header "timp";

formula

(all,s,reg) expdc(s)=sum(d_,reg,sum(i_,merc,exp_(s,d_,i_)));
(all,s,reg)(all,d,reg)(all,i,merc) frt(s,d,i)=imp(s,d,i)-exp_(s,d,i);

!{f1}! !{eq 44}!

(all,s,reg) frtdc(s)=sum(d_,reg,sum(i_,merc,frt(s,d_,i_)));
(all,s,reg)(all,d,reg)(all,i,merc)
exp_(s,d,i)=imp(s,d,i)-
[frt(s,d,i)-(exp_targ(s)-expdc(s))*frt(s,d,i)/frtdc(s)];

!{f2}! !{eq 46}!

(all,s,reg) expdc(s)=sum(d_,reg,sum(i_,merc,exp_(s,d_,i_)));
(all,d,reg) impsc(d)=sum(s_,reg,sum(i_,merc,imp(s_,d,i_)));

file (new) new_trade;

write exp_ to file new_trade header "exp";
write imp_ to file new_trade header "imp";
write exp_targ to file new_trade header "texp";
write imp_targ to file new_trade header "timp";
write expdc to file new_trade header "chke";
write impsc to file new_trade header "chki";

formula

(all,s,reg)(all,d,reg)(all,i,merc) frt(s,d,i)=imp(s,d,i)-exp_(s,d,i);

write frt to file new_trade header "frt";

TABLO code segment SERV1A.TIB

file trade;
file target;
file route;

\$INCLUDE SETS.TAB

coefficient

(all,s,reg)(all,d,reg)(all,c,com) exp_(s,d,c);
(all,s,reg)(all,d,reg)(all,c,com) imp_(s,d,c);
(all,s,reg)(all,d,reg)(all,c,serv) route_map(d,s,c);

(all,s,reg)(all,c,serv) exptot(c,s);
(all,d,reg)(all,c,serv) imptot(c,d);

read exp_ from file trade header "exp";
read imp_ from file trade header "imp";
read route_map from file route header "map";

read exptot from file target header "sxio";
read imptot from file target header "siio";

coefficient

(all,s,reg)(all,d,reg)(all,c,serv1) traserv(s,d,c);

(all,s,reg)(all,c,serv1) trade_sc(s,c);
(all,d,reg)(all,c,serv1) trade_dc(d,c);

(all,s,reg)(all,d,reg)(all,c,serv1) share_sc(s,d,c);
(all,s,reg)(all,d,reg)(all,c,serv1) share_dc(s,d,c);

formula

(all,s,reg)(all,d,reg)
(all,c,serv1:exp_(s,d,c) ne 0 and imp_(s,d,c) ne 0)
traserv(s,d,c)=[exp_(s,d,c)*imp_(s,d,c)]^0.5;

!{f1}! !{eq 50}!

(all,s,reg)(all,d,reg)(all,c,serv1:exp_(s,d,c)=0 or imp_(s,d,c)=0)
traserv(s,d,c)=max(exp_(s,d,c),imp_(s,d,c));

!{f2}! !{eq 50}!

(all,s,reg)(all,c,serv1) trade_sc(s,c)=sum(d,reg:route_map(d,s,c) ne 0,
traserv(s,d,c));
(all,d,reg)(all,c,serv1) trade_dc(d,c)=sum(s,reg:route_map(d,s,c) ne 0,
traserv(s,d,c));

(all,s,reg)(all,d,reg)(all,c,serv1) share_sc(s,d,c)=0;
(all,s,reg)(all,d,reg)(all,c,serv1) share_dc(s,d,c)=0;

(all,s,reg)(all,d,reg)(all,c,serv1:route_map(d,s,c) ne 0)

```

share_sc(s,d,c)=traserv(s,d,c)/trade_sc(s,c);
(all,s,reg)(all,d,reg)(all,c,serv1:route_map(d,s,c) ne 0)
share_dc(s,d,c)=traserv(s,d,c)/trade_dc(d,c);

```

```

(all,s,reg)(all,d,reg)(all,c,serv1:trade_sc(s,c) ne 0)
exp_(s,d,c)=exptot(c,s)*share_sc(s,d,c);

```

!{f3}! !{eq 51}!

```

(all,s,reg)(all,d,reg)(all,c,serv1:trade_dc(d,c) ne 0)
imp(s,d,c)=imptot(c,d)*share_dc(s,d,c);

```

!{f4}! !{eq 52}!

```

(all,s,reg)(all,d,reg)(all,c,serv1:trade_sc(s,c)=0)
exp_(s,d,c)=0;
(all,s,reg)(all,d,reg)(all,c,serv1:trade_dc(d,c)=0)
imp(s,d,c)=0;

```

```

display share_sc;share_dc;

```

```

file (new) new_trade;

```

```

write exp_ to file new_trade header "exp";
write imp_ to file new_trade header "imp";

```

TABLO code segment SERV2H.TIB

```

zerodivide default 0.0;

```

```

file trade;
file target;
file route;

```

```

$INCLUDE SETS.TAB

```

```

coefficient
(all,s,reg)(all,d,reg)(all,c,serv) expserv(s,d,c);
(all,s,reg)(all,d,reg)(all,c,serv) impserv(s,d,c);
(all,s,reg)(all,d,reg)(all,c,serv) traserv(s,d,c);

```

```

(all,s,reg)(all,c,serv) exptot(c,s);
(all,d,reg)(all,c,serv) imptot(c,d);

```

```

(all,s,reg)(all,d,reg)(all,c,com) exp_(s,d,c);
(all,s,reg)(all,d,reg)(all,c,com) imp_(s,d,c);

```

```

(all,s,reg)(all,d,reg)(all,c,serv) expsd(s,d,c);
(all,s,reg)(all,d,reg)(all,c,serv) impsd(s,d,c);

```

```

(all,s,reg)(all,c,serv) exps(s,c);
(all,d,reg)(all,c,serv) impd(d,c);

```

```

(all,s,reg) expt(s);
(all,d,reg) impt(d);

```

```

(all,s,reg)(all,c,serv) exp_done(s,c);
(all,d,reg)(all,c,serv) imp_done(d,c);

(all,s,reg)(all,d,reg)(all,c,serv) route_map(d,s,c);

(all,r,reg) row_flag(r) #Flags rest of world#;

(all,s,reg) exp_mrg(s); !!

(all,s,reg) frgt_splt(s); !!
frgt_tot;

```

formula

```

(all,r,reg) row_flag(r)=0;
(all,r,row) row_flag(r)=1;

read exp_from file trade header "exp";
read imp_from file trade header "imp";

read exptot from file target header "sxio";
read imptot from file target header "siio";

read route_map from file route header "map";
read frgt_splt from file target header "fspl"; !!

```

formula

```

frgt_tot=sum(i,merc,sum(s,reg,sum(d,reg,imp(s,d,i)-exp_(s,d,i))));
(all,s,reg) exp_mrg(s)=frgt_splt(s)*frgt_tot; !!
(all,c,tnt)(all,s,reg) exptot(c,s)=exptot(c,s)-exp_mrg(s); !!

(all,r,non_intra)(all,c,serv2) route_map(r,r,c)=0;
(all,s,reg)(all,c,serv) exp_done(s,c)=sum(d,reg:exp_(s,d,c) ne 0,1);
(all,d,reg)(all,c,serv) imp_done(d,c)=sum(s,reg:imp(s,d,c) ne 0,1);

(all,s,reg)(all,d,reg)(all,c,serv)
  expsd(s,d,c)=sum(i,merc:route_map(d,s,c)=1,exp_(s,d,i));
(all,s,reg)(all,c,serv) exps(s,c)=sum(d,reg,expsd(s,d,c));
(all,s,reg) expt(s)=sum(c,merc,sum(d,reg,exp_(s,d,c)));

(all,s,reg)(all,d,reg)(all,c,serv)
  impsd(s,d,c)=sum(i,merc:route_map(d,s,c)=1,imp(s,d,i));
(all,d,reg)(all,c,serv) impd(d,c)=sum(s,reg,impsd(s,d,c));
(all,d,reg) impt(d)=sum(c,merc,sum(s,reg,imp(s,d,c)));

(all,s,reg)(all,d,reg)(all,c,serv:exp_done(s,c)=0)
  expserv(s,d,c)=exptot(c,s)*expsd(s,d,c)/exps(s,c);

(all,s,reg)(all,d,reg)(all,c,serv:imp_done(d,c)=0)

```

!{f1}! !{eq 48}!

impserv(s,d,c)=imptot(c,d)*impsd(s,d,c)/impd(d,c);

!{f2}! !{eq 49}!

(all,s,reg)(all,d,reg)(all,c,serv:exp_done(s,c) ne 0)
expserv(s,d,c)=exp(s,d,c);
(all,s,reg)(all,d,reg)(all,c,serv:imp_done(d,c) ne 0)
impserv(s,d,c)=imp(s,d,c);

(all,s,reg)(all,d,reg)
(all,c,serv:expserv(s,d,c)>0 and impserv(s,d,c)>0)
traserv(s,d,c)=[expserv(s,d,c)*impserv(s,d,c)]^0.5;

!{f3}! !{eq 53}!

(all,s,reg)(all,d,reg)(all,c,serv:expserv(s,d,c) le 0 or impserv(s,d,c) le 0)
traserv(s,d,c)=max(expserv(s,d,c),impserv(s,d,c),0);

!{f4}! !{eq 53}!

(all,s,reg)(all,d,reg)(all,c,serv)
exp(s,d,c)=traserv(s,d,c);

(all,s,reg)(all,d,reg)(all,c,serv)
imp(s,d,c)=traserv(s,d,c);

coefficient

(all,s,reg) exp_targ(s);
(all,d,reg) imp_targ(d);

(all,s,reg) exp_mercrat(s);
(all,d,reg) imp_mercrat(d);

(all,s,reg) exp_tot(s);
(all,d,reg) imp_tot(d);

tmp1;

read exp_mercrat from file target header "exmr";
read imp_mercrat from file target header "immr";

read exp_targ from file target header "exp";
read imp_targ from file target header "imp";

formula

(all,s,reg) exp_tot(s)=exp_targ(s)/exp_mercrat(s)*(1-exp_mercrat(s));
(all,d,reg) imp_tot(d)=imp_targ(d)/imp_mercrat(d)*(1-imp_mercrat(d));

(all,s,reg) exp_tot(s)=exp_tot(s)-exp_mrg(s);

coefficient

(all,r,reg)(all,i,com) trade_row(r,i);
trade_rowc;
tot_row;

formula

(all,r,row)(all,i,serv) trade_row(r,i)=sum(d,reg:row_flag(d)=0,exp_(r,d,i))
*sum(s,reg:row_flag(s)=0,exp_(s,r,i))
/sum(s,reg,sum(d,reg:row_flag(s)=0 and row_flag(d)=0,exp_(s,d,i))); !f5! !eq 8!

trade_rowc=sum(r,row,sum(i,serv,trade_row(r,i)));

tot_row=sum(r,row,exp_tot(r))-sum(i,serv,sum(s,row,
sum(d,reg:row_flag(d)=0,exp_(s,d,i))));

(all,r,row)(all,i,serv) exp_(r,i)=tot_row*trade_row(r,i)/trade_rowc; !f6! !eq 10!

(all,r,row)(all,i,serv) trade_row(r,i)=sum(d,reg:row_flag(d)=0,imp(r,d,i))
*sum(s,reg:row_flag(s)=0,imp(s,r,i))
/sum(s,reg,sum(d,reg:row_flag(s)=0 and row_flag(d)=0,imp(s,d,i))); !f7! !eq 9!

trade_rowc=sum(r,row,sum(i,serv,trade_row(r,i)));
tot_row=sum(r,row,imp_tot(r))-sum(i,serv,sum(d,row,
sum(s,reg:row_flag(s)=0,imp(s,d,i))));

(all,r,row)(all,i,serv) imp(r,i)=tot_row*trade_row(r,i)/trade_rowc; !f8! !eq 11!

file (new) new_trade;

write exp_ to file new_trade header "exp";
write imp_ to file new_trade header "imp";

write exp_tot to file new_trade header "sexp";
write imp_tot to file new_trade header "simp";
write exp_mrg to file new_trade header "emrg";

TABLO code segment SERV3.TIB

file trade;
file target;

\$INCLUDE SETS.TAB

coefficient

(all,s,reg) exptot0(s);
(all,d,reg) imptot0(d);

(all,s,reg) exptot(s);
(all,d,reg) imptot(d);

(all,s,reg)(all,d,reg)(all,c,com) exp_(s,d,c);
(all,s,reg)(all,d,reg)(all,c,com) imp(s,d,c);

```

(all,s,reg)(all,d,reg)(all,c,com) tmp(s,d,c);
(all,s,reg)(all,d,reg)(all,c,com) tmp1(s,d,c);

read exp_ from file trade header "exp";
read imp_ from file trade header "imp";

read exptot from file trade header "sexp";
read imptot from file trade header "simp";

formula
(all,s,reg) exptot0(s)=sum(i,serv,sum(d,reg,exp_(s,d,i)));

(all,s,reg)(all,d,reg)(all,c,serv)
tmp(s,d,c)=exp_(s,d,c)*exptot(s)/exptot0(s);

(all,d,reg) imptot0(d)=sum(i,serv,sum(s,reg,tmp(s,d,i)));

(all,s,reg)(all,d,reg)(all,c,serv)
tmp1(s,d,c)=tmp(s,d,c)*imptot(d)/imptot0(d);

update (explicit)
(all,s,reg)(all,d,reg)(all,c,merc)
imp(s,d,c)=imp(s,d,c);

update (explicit)
(all,s,reg)(all,d,reg)(all,c,merc)
exp_(s,d,c)=exp_(s,d,c);

update (explicit)
(all,s,reg)(all,d,reg)(all,c,serv)
imp(s,d,c)=tmp1(s,d,c);

update (explicit)
(all,s,reg)(all,d,reg)(all,c,serv)
exp_(s,d,c)=tmp1(s,d,c);

variable y;x;

equation dummy
y=max(1,sum(s,row,sum(d,row,sum(c,serv1:imp(s,d,c)<0,
exp_(s,d,c)+imp(s,d,c)))))*x;

# TABLO code segment CALCFRT.TIB

file trade;
file target;

$INCLUDE SETS.TAB

coefficient
(all,s,reg)(all,d,reg)(all,i,com) exp_(s,d,i) #Exports FOB#;
(all,s,reg)(all,d,reg)(all,i,com) imp(s,d,i) #Imports CIF#;

```

```

(all,s,reg)(all,d,reg)(all,i,com) frt(s,d,i) #Imports CIF#;
(all,s,reg) expt(s);
(all,s,reg) impt(s);
(all,s,reg) mexp(s);
(all,s,reg) mimp(s);
(all,s,reg) sexp(s);
(all,s,reg) simp(s);
(all,s,reg) frgt_splt(s);
(all,s,reg) exp_mrg(s);
totfrt;

```

```

read exp_ from file trade header "exp";
read imp_ from file trade header "imp";
read frgt_splt from file target header "fspl";

```

formula

```

(all,s,reg)(all,d,reg)(all,i,com) frt(s,d,i)=0;
(all,s,reg)(all,d,reg)(all,i,com) frt(s,d,i)=imp(s,d,i)-exp_(s,d,i);
totfrt=sum(i,merc,sum(s,reg,sum(d,reg:frt(s,d,i) ne 0,frt(s,d,i))));
(all,s,reg) exp_mrg(s)=totfrt*frgt_splt(s);
(all,s,reg) expt(s)=sum(d,reg,sum(i,com,exp_(s,d,i)))+exp_mrg(s);
(all,d,reg) impt(d)=sum(s,reg,sum(i,com,imp(s,d,i)));
(all,s,reg) sexp(s)=sum(d,reg,sum(i,serv,exp_(s,d,i)));
(all,d,reg) simp(d)=sum(s,reg,sum(i,serv,imp(s,d,i)));
(all,s,reg) mexp(s)=sum(d,reg,sum(i,merc,exp_(s,d,i)));
(all,d,reg) mimp(d)=sum(s,reg,sum(i,merc,imp(s,d,i)));

```

file (new) new_trade;

```

write exp_ to file new_trade header "exp";
write imp_ to file new_trade header "imp";
write expt to file new_trade header "expt";
write impt to file new_trade header "impt";
write frt to file new_trade header "frt";
write totfrt to file new_trade header "totf";
write exp_mrg to file new_trade header "emrg";

```

```

write mexp to file new_trade header "mexp";
write mimp to file new_trade header "mimp";

```

```

write sexp to file new_trade header "sexp";
write simp to file new_trade header "simp";

```

APPENDIX D: FORTRAN PROGRAMS FOR TRANSFERRING INITIAL TRADE DATA FROM TEXT FILES TO HEADER ARRAY FILES

FORTTRAN program SPLIT.

```
      program split
      character x*1000,y*100
      character*1 prefix
      integer ncnt,ncom,i,j,k,l
      real v(100)
      write(*,*)' Enter number of countries '
      read(*,*)ncnt
      write(*,*)' Enter number of commodities '
      read(*,*)ncom
      open(1,file='country.txt')
      open(3,file='trade.txt')
      do 10 j=1,2
      rewind(1)
      prefix='e'
      if(j.eq.2)prefix='i'
      do 10 i=1,ncnt
      read(1,'(a)')x
      l=index(x,' ')-1
      open(2,file=prefix//x(1:l)//'.txt')
1      read(3,'(a)')y
      if(y(1:l).ne.x(1:l))goto 1
      read(3,'(a)')y
      do 5 k=1,ncom
      read(3,'(a)')x
      l=index(x,' ')
      l=l+index(x(l+1:len(x)),' ')
      read(x(l+1:len(x)),*)(v(i1),i1=1,ncnt+1)
      write(2,*)(v(i1),i1=1,ncnt+1)
C      write(2,'(a)')x(l+1:len(x))
      5      continue
      close(2)
      10      continue
      close(1)
      close(3)
      stop
      end
```

FORTTRAN program READ.

```
      program prepare
      integer ncom,ncnt,mmx,mmcmt,lucnt,luhar,mmr,i,ludata
      parameter (mmx=100000,mmcmt=50,lucnt=1,luhar=2,ludata=3,mmr=8000)
```

```

real x(mmx)
character fhar*12,fcnt*12,cntnam(mmcnt)*7,errmes*70
logical openok
errmes(1:1)=' '
write(*,*)' Enter number of countries: '
read(*,*)ncnt
if(ncnt.le.0)then
errmes='E - Number of countries must be greater then 0.'
go to 15500
endif
call incpar(ncnt,mmcnt,'mmcnt',errmes)
if(errmes(1:1).eq.'E')go to 15000
write(*,*)' Enter number of commodities: '
read(*,*)ncom
if(ncom.le.0)then
errmes='E - Number of commodities must be greater then 0.'
go to 15500
endif
call incpar(2*ncnt*ncnt*ncom+2*(ncnt+1),mmx,'mmx',errmes)
if(errmes(1:1).eq.'E')go to 15000
write(*, '(a)')' File containing country names.'
call opfile(lucnt,'old','formatted',fcnt,openok,errmes)
if(errmes(1:1).eq.'E')go to 15000
if(.not.openok) then
errmes='E - Unable to open country name file '//fcnt
goto 15500
end if
call rdcnt(lucnt,cntnam,ncnt,errmes)
if(errmes(1:1).eq.'E')go to 15000
call clseq(lucnt,'keep',errmes)
if(errmes(1:1).eq.'E')go to 15000
call read(ludata,x,x(ncnt*ncnt*ncom+1),x(2*ncnt*ncnt*ncom+1),
* x(2*ncnt*ncnt*ncom+ncnt+2),ncnt,ncom,cntnam,errmes)
if(errmes(1:1).eq.'E')go to 15000
write(*, '(a)')' Header array file to contain data.'
call opfile(luhar,'new','header',fhar,openok,errmes)
if(errmes(1:1).eq.'E')go to 15000
if(.not.openok) then
errmes='E - Unable to open new header array file '//fhar
goto 15500
end if

```

C
C Write exports array
C

```

call put7r(luhar,'exp ',x,
* ncnt,ncnt,ncom,1,1,1,1,
* 1,1,1,1,1,1,1,
* ncnt,ncnt,ncom,1,1,1,1,
* 'Exports',mmr,errmes)
if(errmes(1:1).eq.'E')go to 15000

```

C
C Write imports array

```

C
    call put7r(luhar,'imp',x(ncnt*ncnt*ncom+1),
    * ncnt,ncnt,ncom,1,1,1,1,
    * 1,1,1,1,1,1,1,
    * ncnt,ncnt,ncom,1,1,1,1,
    * 'Imports',mmr,errmes)
    if(errmes(1:1).eq.'E')go to 15000
C
C Write array to flag if imports are cif (all countries at present)
C
    do 10 i=1,ncnt
10  x(i)=1.0
    call put7r(luhar,'ifob',x,ncnt,1,1,1,1,1,1,1,1,1,1,1,1,
    * ncnt,1,1,1,1,1,1,'= 1 if imports are cif',mmr,errmes)
    if(errmes(1:1).eq.'E')go to 15000
C
C Write dummy values for total exports
C
    call put7r(luhar,'texp',x,ncnt,1,1,1,1,1,1,1,1,1,1,1,1,
    * ncnt,1,1,1,1,1,1,'Total exports',mmr,errmes)
    if(errmes(1:1).eq.'E')go to 15000
C
C Write dummy values for total imports
C
    call put7r(luhar,'timp',x,ncnt,1,1,1,1,1,1,1,1,1,1,1,1,
    * ncnt,1,1,1,1,1,1,'Total imports',mmr,errmes)
    if(errmes(1:1).eq.'E')go to 15000
C
C Close header array file
C
    call clnwhf(luhar,'keep',errmes)
    if(errmes(1:1).eq.'E')go to 15000
C
C Successful completion
C
    write(*,*)'
    write(*,*)' Successful completion: import and export data ',
    * 'on file '//fhar
    go to 16000
15000 call peret('prepare')
    go to 16000
15500 call peretm('prepare',errmes)
    go to 16000
16000 stop
    end
C*****
    subroutine read(ludata,export,import,work1,work2,
    * ncnt,ncom,cntnam,errmes)
    integer ncnt,ncom,icnt,icom,ludata,lencnt,j
    character cntnam(ncnt)*7,errmes*(*),buffer*1000,subnam*6,prefix*1,
    * fname*12
    parameter (subnam='read')

```

```

    real export(ncnt,ncnt,ncom),import(ncnt,ncnt,ncom),work1(*),
    * work2(*)
    logical openok
    prefix='e'
1   continue
    do 10 icnt=1,ncnt
    icom=0
    lencnt=index(cntnam(icnt),' ')-1
    if(lencnt.eq.-1)lencnt=len(cntnam(icnt))
    write(fname,'(3a)'prefix,cntnam(icnt)(1:lencnt),'.txt'
    call opflpn(ludata,fname,'old','formatted',openok,errmes)
    if(errmes(1:1).eq.'E'.or..not.openok)then
    if(prefix.eq.'e')then
    do 15 j=1,ncnt
    do 15 icom=1,ncom
    export(icnt,j,icom)=0.0
15  continue
    else
    do 16 j=1,ncnt
    do 16 icom=1,ncom
    import(j,icnt,icom)=0.0
16  continue
    endif
    errmes(1:1)=' '
    go to 10
    endif
    2   continue
    read(ludata,*,err=2,end=3)(work1(j),j=1,ncnt)
    3   continue
    icom=icom+1
    if(icom.gt.ncom)then
    go to 10
    errmes='E - Too many commodities in file '//fname
    go to 15500
    endif
    4   continue
    6   continue
    if(prefix.eq.'e')then
    do 20 j=1,ncnt
    export(icnt,j,icom)=work1(j)
20  continue
    else
    do 30 j=1,ncnt
    import(j,icnt,icom)=work1(j)
30  continue
    endif
    go to 2
    9   call clseq(ludata,'keep',errmes)
    if(errmes(1:1).eq.'E')go to 15000
10  continue
    if(prefix.eq.'e')then
    prefix='i'

```

```

        go to 1
    endif
    go to 16000
15000  call peret(subnam)
        go to 16000
15500  call peretm(subnam,errmes)
        go to 16000
16000  return
        end
C*****
    subroutine fill(x,n,v)
    integer i,n
    real x(n),v
    do 10 i=1,n
        x(i)=v
    10  continue
    return
    end
C*****
    subroutine rdcnt(lucnt,cntnam,ncnt,errmes)
    integer lucnt,ncnt,icnt
    character cntnam(ncnt)*7,errmes*(*),nam*7,subnam*6
    parameter (subnam='rdcnt')
    icnt=1
    1  continue
    read(lucnt,'(a)',err=100,end=200)cntnam(icnt)
    icnt=icnt+1
    if(icnt.le.ncnt)go to 1
    2  read(lucnt,'(a)',err=100,end=16000)nam
    if(nam.ne.' ')then
        errmes='E - Excess country names supplied.'
        go to 15500
    endif
    go to 2
    100 errmes='E - Error reading file of country names.'
    go to 15500
    200 errmes='E - Too few country names supplied.'
    go to 15500
    go to 16000
15000  call peret(subnam)
        go to 16000
15500  call peretm(subnam,errmes)
        go to 16000
16000  return
        end
C*****

C*****

```

APPENDIX E: STORED INPUT FILES FOR CREATING THE INITIAL DATA FILES (OTHER THAN THE TRADE DATA) USED BY THE TABLO PROGRAMS

Stored input file PARS.STI defines the sets used by the TABLO
generated programs

```
f
i
n
pars.dat
aw
t
i
1
1
n
16
nreg
Number of regions
w
n
aw
t
i
1
1
n
37
ncom
Number of commodities
w
n
aw
t
i
1
1
n
15
nrep
Number of reporters
w
n
aw
t
i
1
15
```

n
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

rep
Reporter countries

w

n

aw

t

i

l

l

n

16

nonr

Non-reporter countries

w

n

aw

t

i

l

l

n

31

nmer

Number of merchandise commodities

w

n

aw

t

i

l

31

n

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

merc

Subset of merchandise commodities

w

n

aw

t

i

l

l

n

34

trtr

Subset of trade and transport

w

n

aw

t

i

l

6

n

32

33

34

35

36

37

nonm

Subset of non-merchandise commodities

w

n

aw

t

i

l

l

n

l

ns1

Number of non-merchandise commodities for which
trade data is available

w

n

aw

t

i
1
1
n
1
ser1
Subset of non-merchandise commodities for which
trade data is available
w
n
aw
t
i
1
5
n
2
3
4
5
6
ser2
Subset of non-merchandise commodities for which
trade data is unavailable
w
n
aw
t
i
1
1
n
1
com1
Picks out first commodity
w
n
aw
t
i
1
1
n
14
nnin
Number of regions with no intra-region services trade
w
n
aw
t
i
1
14
n
1

```

2
3
4
5
6
8
9
10
11
12
13
14
15
nint
Set of regions with no intra-region services trade
w
n
ex
Kevin Hanslow
3/6/92
Set information
**end
y

```

Stored input file ROUTE.STI defines the permissible trade routes for each service commodity

```

f
i
n
route.dat
aw
t
r
3
16 16 1
n

```

1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1

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map

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Map of legitimate trade routes for services

is
3 5
end
m
r
s
3 2 5
1 1 16
2 1 16
end
s
1
w
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ex
Kevin Hanslow
15/6/92
**end
y

Stored input file TARGET2.STI defines the target data (see Chapter 1)

f
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target.dat
aw
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2660000000
merw
Merchandise world exports f.o.b.
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n
aw
t
r
1
1
n
1.06
over
Target overall cif/fob ratio
w
n
aw
t
r
2
1 16

n
 42248 AUS
 11899 NZ
 127792 CAN
 431010 USA
 292493 JAP
 69853 KOR
 1027453 EC
 20539 INN
 23375 MLY
 9620 PHI
 47239 SIN
 19978 THA
 47473 CHM
 32720.2 HK
 66668 OAN
 657832 ROW

EXP
 Trade Exports

m
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n
 47550 AUS
 11266 NZ
 124684 CAN
 537900 USA
 226805 JAP
 55251 KOR
 1046092 EC
 18395 INN
 19824 MLY
 9393 PHI
 46254 SIN
 20986 THA
 55211 CHM
 39088.5 HK
 54210 OAN
 647775 ROW

IMP
 Trade imports

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1.035 1.103
1.014 0 1.114 1.096 1.086 1.068 1.123 1.054 1.054 1.054 1.054 1.054 1.068
1.068 1.068 1.105
1.095 1.104 0 1 1.084 1.091 1.053 1.087 1.087 1.087 1.087 1.087 1.091 1.091
1.091 1.08
1.076 1.08 1.002 0 1.069 1.078 1.035 1.073 1.073 1.073 1.073 1.073 1.078
1.078 1.078 1.045
1.035 1.056 1.062 1.049 0 0.999 1.095 0.998 0.998 0.998 0.998 0.998 0.999
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1.014 1.046 1.087 1.062 1.005 0 1.099 1.002 1.002 1.002 1.002 1.002 0.999
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1.097 1.104 1.048 1.029 1.109 1.108 1.095 1.098 1.098 1.098 1.098 1.098
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1.019 1.056 1.1 1.079 1.017 1.007 1.105 1.087 0 1.087 1.087 1.087 1.007
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1.019 1.056 1.1 1.079 1.017 1.007 1.105 1.087 1.087 0 1.087 1.087 1.007
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1.019 1.056 1.1 1.079 1.017 1.007 1.105 1.087 1.087 1.087 0 1.087 1.007
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1.019 1.056 1.1 1.079 1.017 1.007 1.105 1.087 1.087 1.087 1.087 0 1.007
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0.999 0.999 1.101
1.014 1.046 1.087 1.062 1.005 0.999 1.099 1.002 1.002 1.002 1.002 1.002
0.999 0 0.999 1.101
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1.11 1.114 1.033 0 1.102 1.111 1.068 1.107 1.107 1.107 1.107 1.107 1.111
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 1.108 0 1.216 1.197 1.186 1.167 1.227 1.151 1.151 1.151 1.151 1.151 1.167
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 1.196 1.206 0 1.092 1.184 1.191 1.15 1.187 1.187 1.187 1.187 1.187 1.191
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 1.176 1.179 1.094 0 1.167 1.177 1.13 1.172 1.172 1.172 1.172 1.172 1.177
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 1.178 0 1.259 1.237 1.291 1.241 1.33 1.241 1.241 1.241 1.241 1.241 1.241
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 1.07 1.108 1.155 1.133 1.067 1.057 1.16 1.141 0 1.141 1.141 1.141 1.057
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 1.07 1.108 1.155 1.133 1.067 1.057 1.16 1.141 1.141 0 1.141 1.141 1.057
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1.253 1.323 1.056 0 1.242 1.245 1.178 1.254 1.254 1.254 1.254 1.254 1.245
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 1.155 1.221 1.215 1.209 0 1.082 1.322 1.084 1.084 1.084 1.084 1.084 1.082
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 1.126 1.215 1.269 1.26 1.107 1.054 1.328 0 1.29 1.29 1.29 1.29 1.054 1.054
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21.50	30.80	8830.00	925.00	745.00	0.02
2.51	17.80	2290.00	979.00	282.00	3.49
1380.00	7.27	15000.00	4200.00	282.00	0.05
829.00	81.10	65600.00	30800.00	2370.00	0.12
199.00	20.80	63600.00	14700.00	131.00	0.15
50.90	370.00	9680.00	1510.00	366.00	47.40
731.00	7820.00	90800.00	37600.00	5760.00	0.21
0.34	0.88	1940.00	479.00	1.07	0.01
1.17	0.75	2130.00	164.00	3.69	0.01
0.15	137.00	2600.00	988.00	38.10	0.00
36.10	5.98	4980.00	524.00	55.50	0.01
2.40	0.63	2650.00	374.00	32.00	0.00
0.66	1.72	56.00	418.00	3.65	0.01

239.00	43.10	2570.00	1630.00	42.30	0.01
7.07	3.22	6550.00	1030.00	85.30	12.80
0.00	0.00	0.00	0.00	0.00	0.00
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15.60	81.80	2210.00	1620.00	614.00	0.15
7.37	19.80	669.00	895.00	963.00	17.00
129.00	1.53	2310.00	9110.00	616.00	2.78
4830.00	12.00	13000.00	67400.00	18.30	1.49
31.08	5.81	37570.13	16809.80	120.04	0.98
6.17	2.77	2030.00	1520.00	487.00	30.40
1530.00	4960.00	33200.00	27900.00	1340.00	426.00
0.20	0.26	908.00	1240.00	348.00	0.03
0.09	0.13	2.39	24.70	16.40	0.18
0.13	21.70	974.00	571.00	6.52	0.02
0.14	0.20	2.89	385.00	17.30	0.01
60.30	0.11	423.00	531.00	23.80	0.03
69.30	1.75	15.10	427.00	2.53	0.22
1.26	111.00	2310.00	1410.00	120.00	0.01
13.20	0.26	2330.00	2920.00	237.00	72.90
0.00	0.00	0.00	0.00	0.00	0.00
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imports of services					
m					
s					
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0.803	AUS				
0.774	NZ				
0.897	CAN				
0.777	USA				
0.881	JAP				

0.861	KOR
0.790	EC
0.934	INN
0.893	MLY
0.746	PHI
0.804	SIN
0.773	THA
0.895	CHM
0.840	HK
0.843	OAN
0.814	ROW

exmr

Ratio of merchandise to total exports

w

n

aw

t

r

2

1 16

n

0.775	AUS
0.655	NZ
0.851	CAN
0.835	USA
0.722	JAP
0.876	KOR
0.809	EC
0.750	INN
0.775	MLY
0.864	PHI
0.872	SIN
0.837	THA
0.928	CHM
0.882	HK
0.782	OAN
0.855	ROW

immr

Ratio of merchandise to total imports

w

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aw

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16

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2.08
0.68
3.59
8.39
14.2
1.03
56.85
0.6

0.26
1.47
0.39
0.08
1.34
1.48
1.48
6.08
fspl
Splits for margin supply of t&t
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mimr
Maximum merchandise ratio for ROW imports
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expw
Total world exports f.o.b.
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ex
Kevin Hanslow
13/5/92
"Target export, import and cif/fob ratios"
**end
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APPENDIX F: STORED INPUT FILES FOR USE BY TABLO PROGRAMS AND MODHAR IN THE COMPUTATIONAL PHASE OF THE TRADE DATA GENERATION

Stored input file MKT3X0.STI is a MODHAR input file which increases the number of commodities represented in the data file TRADE0.DAT from 32 to 37, and produces a new file TRADE.3X0

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f
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trade0.dat
trade.3x0
mw
exp
is
3 5
end
w
n
mw
imp
is
3 5
end
w
n
ex
a
Kevin Hanslow
15/6/92
Increase number of commodities from 32 to 37
**end
y
```

Stored input file STEP3X1.STI specifies the files required by TABLO generated program STEP3X1G

```
trade.3x0
target.dat
trade.3x1
pars.dat
target.new
```

Stored input file MOD3X1.STI appends the headers "over", "siiio", "sxio" and "fspl" to the file TARGET.NEW to create the file TARGET.3X1. TARGET.NEW is produced by program STEP3X1F. It is

similar to TARGET.DAT but lacks the above four headers, hence the need for this application of MODHAR.

```
f
i
y
target.new
target.3x1
aw
h
target.dat
over
w
n
aw
h
target.dat
siio
w
n
aw
h
target.dat
sxio
w
n
aw
h
target.dat
fspl
w
n
ex
a
```

```
**end
y
```

Stored input file STEP3X2.STI specifies the files required by TABLO generated program STEP3X1

```
step3x2.dis
trade.3x1
target.3x1
pars.dat
trade.3x2
```

Stored input file STEP3X3.STI specifies the files required by TABLO generated program STEP3X3 and the number of iterations to be performed in the RAS procedure for merchandise trade

s
40
n
tmp

1

tmp
trade.3x2
pars.dat
trade.3x3
tmp.par
tmp1
tmp2
n
m
sx x
f
u
n
l
a
y
a
**end

**# Stored input file STEP3X4.STI specifies the files required by TABLO
generated program STEP3X4**

trade.3x3
trade.3x2
pars.dat
trade.3x4

**# Stored input file SERV1.STI specifies the files required by TABLO
generated program SERV1A**

trade.3x4
target.3x1
pars.dat
serv1.dat

**# Stored input file SERV2.STI specifies the files required by TABLO
generated program SERV2H**

serv2.dis
serv1.dat
target.3x1
route.dat
pars.dat
serv2.dat

**# Stored input file SERV3.STI specifies the files required by TABLO
generated program SERV3 and the number of iterations to be performed in
the RAS procedure for services trade**

s
40
n
tmp

1

tmp
serv2.dat
pars.dat
serv3.dat
tmp1
tmp2
tmp3
n
m
sx x
f
u
n
l
a
y
a
**end

**# Stored input file CALCFRT.STI specifies the files required by TABLO
generated program CALCFRT**

serv3.dat
target.3x1
pars.dat
newtrade.dat

APPENDIX G: TOP PORTION (AUSTRALIAN EXPORT DATA) OF THE INPUT FILE TRADE.TXT FOR THE FORTRAN PROGRAM SPLIT, INDICATING THE REQUIRED FORMAT

TRADE DATA FOR SALTER 3 11 August 1992 *** E X P O R T S *** (\$US'000)

AUSTRALIAN EXPORTS 1988 (Converted at \$1A=78.2cUS 1988 UN Trade Book)

aul n.z can usa jap kor ec inn mly phi sin tha chm hog oan row wor

```
1 PDR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 18 18 0
2 WHT 0 21802 0 0 169205 25052 20 156632 67276 53 22320 13813 218999 0 0 953870 1649043 0
3 OGR 0 1592 11 46 93185 5459 27843 61 1037 562 1875 982 16318 156 35839 74886 259852 0
4 NGC 3 28332 17029 19286 154501 57352 144798 31119 27560 18305 36533 21418 13278 29798 53535 137747 790594 0
5 WOL 0 381 2898 211108 943875 180602 1349685 2336 48338 17 1339 31051 197458 0 152147 1074523 4195757 0
6 OLP 101 24395 270 1535 85062 26887 222786 7264 7303 4067 4349 3058 14030 3949 5948 224194 635200 0
7 FOR 0 198 1 40 12 0 35 4 0 0 329 0 0 0 1196 557 2372 0
8 FSH 66 168 23 2735 46511 1041 3360 0 55 36 1284 17 479 7000 8846 616 72237 0
9 COL 0 313 0 47834 1934409 304302 461861 26062 24002 15954 382 4404 4765 79450 257909 429891 3591538 0
10 OIL 0 38752 0 187715 32220 19033 0 19684 0 59115 65086 8821 0 0 10334 6 440765 0
11 GAS 0 41 0 0 0 0 0 12 0 0 14 0 0 2 2 68 139 0
12 OMN 766 12250 29920 190425 849993 190265 706740 2408 50840 1907 8120 18607 62496 18685 69861 123459 2336742 0
13 PCR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
14 MET 0 5714 62703 593385 692282 66493 104476 3992 14801 8483 13787 512 9230 16203 87628 145917 1825605 0
15 MIL 0 1565 936 13305 88055 1060 11106 11278 37450 53181 61549 15627 6059 12936 39751 86334 440192 0
16 OFP 2 94427 24201 84803 362135 24152 82927 4904 6463 9774 28992 5249 21647 53748 37620 143185 984230 0
17 B&T 0 23489 13908 22379 46680 3469 30613 3823 4837 15040 3921 426 1930 6922 77 64609 242123 0
18 TEX 39 60350 2573 14656 25078 36092 32128 2251 1326 584 5781 1359 48587 10287 5808 27217 274118 0
19 WAP 20 12349 1437 13804 3252 32 4276 143 77 80 1358 79 389 2447 1637 5110 46491 0
20 LEA 28 11650 3805 12697 6507 5560 37242 105 16 342 812 317 9853 1485 6995 34874 132288 0
21 LUM 30 13824 298 3990 2393 219 6558 484 279 2 2059 221 1285 1339 1499 5619 40098 0
22 PPP 8 81688 1195 9498 10746 14184 8207 4745 9197 2767 10964 2387 10769 12076 4813 28545 211786 0
23 P&C 0 46766 2 32418 28111 3259 144 12450 4233 1810 50274 12612 11957 8749 5376 476555 694717 0
24 CRP 344 232257 9036 65189 66055 41818 64037 36827 34786 28948 65472 29447 17756 43169 31976 109496 876611 0
25 NMM 140 26022 926 14818 8515 1885 3350 2189 1491 1550 4056 2264 947 4394 2509 15394 90450 0
26 I&S 0 33218 6393 128183 24373 78 1580 8978 13453 14341 27967 5879 3463 6315 13504 87080 374807 0
27 NFM 63 108497 1577 101040 1931300 380947 422953 76642 68864 38899 506519 139439 65122 797067 259690 139542 5038161 0
28 FMP 67 64276 3564 16451 8179 2480 23076 8881 5806 2793 19731 2762 9301 19880 3029 75963 266239 0
29 TRN 86 191186 9134 227982 59135 11331 163172 10254 11829 3412 22590 10796 1763 24023 814 109641 857146 0
30 OME 708 377573 19412 227191 73317 46987 219245 44756 24160 19442 126382 27145 44847 57484 31663 327307 1667619 0
31 OMF 33 135826 24046 242661 124229 992 300287 7072 18190 8906 89668 4421 3762 62346 16151 675713 1714303 0
32 EGW 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
33 CON 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
34 T&T 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
35 OSP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
36 OSG 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
37 OOD 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
```

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