



**INDUSTRY
COMMISSION**

**SINTIA
A Guide to Collecting Tariff Rate Data for
SALTER**

by

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1 THE USE OF SINTIA TARIFF RATES IN THE SALTER DATABASE

The SINTIA project

The SINTIA project was initiated to provide tariff rates of protection for inclusion in the SALTER database. SALTER is a general equilibrium model of the world economy described in Jomini et al (1991). This paper explains how the tariff rate data were obtained and processed using the SINTIA computer software package. Section 1 provides an overview of the project. Section 2 of the paper is intended to instruct the reader on the use of SINTIA with pre-existing SINTIA data files. Appendix B provides a summary of existing data files. Section 3 describes how to create new SINTIA data files. The protection database documentation (Gotch forthcoming) describes how the SINTIA data were included in the final SALTER database. Note that not all of the SINTIA estimates of tariff protection are incorporated in the final SALTER database.

Overview and results of the SINTIA project

The Software for Industrial, Trade and Incentives Analysis (SINTIA) program is a World Bank computer package used to summarise tariff rate data and make revenue forecasts under various assumptions. The tariff rate data are expressed as *ad valorem* (percentage) tariffs or *ad valorem* tariff equivalents. An *ad valorem* tariff or an *ad valorem* tariff equivalent is a percentage rate of duty that is applied to the value of an imported item. *Ad valorem* tariff equivalents are used when a specific import duty (or a quantity tax) is applied to an import. A specific import duty is a fixed value of import duty per unit quantity, such as 12 yen per raincoat. The *ad valorem* tariff equivalent is found by dividing the total value of specific duty paid by the value of imports net of duty.

The magnitude of an *ad valorem* tariff determines the value of duty to be paid, calculated as a percentage of the value of imports net of duty. The net value of an import is known as the world price or the cif (cost, insurance and freight) price.

Table 1: The ordered list of SALTER industries and commodities

<i>Number</i>	<i>Name</i>	<i>Sector</i>
1	Paddy rice	Agriculture
2	Wheat	Agriculture
3	Other grains	Agriculture
4	Non-grain crops	Agriculture
5	Wool	Agriculture
6	Other livestock products	Agriculture
7	Forestry	Agriculture
8	Fishing	Agriculture
9	Coal	Mining
10	Oil	Mining
11	Gas	Mining
12	Other minerals	Mining
13	Processed rice	Manufacturing (Food)
14	Meat products	Manufacturing (Food)
15	Milk products	Manufacturing (Food)
16	Other food products	Manufacturing (Food)
17	Beverages and tobacco	Manufacturing (Food)
18	Textiles	Manufacturing (Non-food)
19	Wearing apparel	Manufacturing (Non-food)
20	Leather products	Manufacturing (Non-food)
21	Lumber products	Manufacturing (Non-food)
22	Pulp, paper and printing	Manufacturing (Non-food)
23	Petroleum and coal products	Manufacturing (Non-food)
24	Chemicals, rubber and plastic	Manufacturing (Non-food)
25	Non-metallic minerals	Manufacturing (Non-food)
26	Primary iron and steel	Manufacturing (Non-food)
27	Non-ferrous metals	Manufacturing (Non-food)
28	Fabricated metal products	Manufacturing (Non-food)
29	Transport equipment	Manufacturing (Non-food)
30	Other machinery and equipment	Manufacturing (Non-food)
31	Other manufacturing	Manufacturing (Non-food)
32	Electricity, gas and water	Services
33	Construction	Services
34	Trade and transport	Services
35	Other services (Private)	Services
36	Other services (Government)	Services
37	Ownership of dwellings	Services

Percentage import duty rates in the SALTER database are determined in part by the SINTIA tariff rate data. In the database, import duty includes tariff barriers to trade and non-tariff barriers to trade. Tariff barriers are the *ad valorem* tariffs and *ad valorem* tariff equivalents of specific tariffs. Non-tariff barriers (NTBs) are quotas and other measures that restrict the flow of imports to a country. The SINTIA project finds only the tariff component of import duty.

The agricultural commodity aggregates in SALTER are typically subject to NTBs. SINTIA finds tariffs only, which are usually a small proportion of agricultural assistance so these SINTIA estimates should be interpreted with caution. The services commodity aggregates are omitted from SINTIA because of insufficient data. The SINTIA project provides estimates of tariff rates of import duty for the SALTER commodities 8 to 32 inclusive. Table 1 lists the SALTER commodities. Refer to Gotch (forthcoming) for an explanation of how the SINTIA estimates are included in the SALTER database.

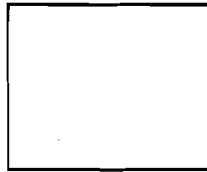
The SINTIA program is used to summarise customs tariff data for New Zealand, Canada, the United States, Japan, Korea, EC, Indonesia, Malaysia, Philippines, Singapore and Thailand. Customs data is highly disaggregated and usually expressed in terms of the Harmonized System (HS) of product classification. The HS classification is simply a numbered list of all types of goods that may be imported to a country. This numbering system is common to many countries. The function of SINTIA for the purposes of SALTER is to provide tariff data for the SALTER commodity classification by summarising the HS-level tariff data.

SINTIA averages the HS tariff rates that correspond to individual SALTER commodities. The tariff rates are weighted by the value of imports *or* the value of domestic production of each HS item counted in the average. Figure 1 describes how several tariff rates of the HS classification are summarised as a single tariff rate of the SALTER classification. The Figure shows two ways to average HS tariff data, using the SALTER commodity aggregate for textiles as an example.

The size of each box in Figure 1 represents classifications of greater or lesser detail, with SALTER classification having least detail and HS classification having greatest detail. The value of imports is available at the HS level, shown as the last row in Figure 1. The value of production is available at the International Standard Industrial Classification (ISIC) level. The ISIC is more aggregated than the HS classification, requiring a HS-ISIC concordance. A map, or concordance, between HS items and SALTER commodities is also required to assign each HS item to a unique SALTER commodity. For example, the HS-SALTER concordance records which HS items belong to the SALTER textiles aggregate in Figure 1. The HS-ISIC concordance maps HS items into single ISIC items, shown in Figure 1 by the shaded areas. In each shaded area, ISIC cells contain the simple average of HS tariff rates in that area. Alternatively, an import weighted average of HS rates at the ISIC level could have been used but pragmatically there is little difference between the import weighted and simple averages at the ISIC level.

Figure 1: An example of averaging tariff rates

SALTER textiles commodity



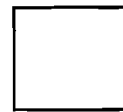
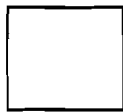
SINTIA-calculated production-weighted average tariff rate

SALTER textiles commodity

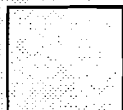
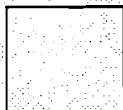


SINTIA-calculated import-weighted average tariff rate

ISIC textiles types



Values of production reported for ISIC textiles types (raw data stored in the secondary data file)



SINTIA-calculated tariff rates for each ISIC textiles commodity (simple averages of corresponding HS rates)

HS textiles types



Tariff rates for each HS textiles commodity (raw data stored in the primary data file)



Value of imports for each HS textiles commodity (raw data stored in the primary data file)

The import weighted average is calculated at the HS level and the production weighted average is calculated at the ISIC level. Note that the ISIC production data refer only to ISIC manufacturing commodities, so the average rates of tariff protection for the SALTER agricultural and resources commodities are found using import weighted data. Both averaging methods are indicated in Figure 1 by arrows. Chapter 2 explains why the production weighted average rates are the preferred measure of protection, where available. Import weighted rates of protection are used where production data is not available. Refer to Appendix B for a complete description of the available data. Chapter 2 discusses the averaging methods in more detail.

Import values for Indonesia, Philippines and Singapore are obtained by Standard International Trade Classification (SITC), rather than by HS classification. Although the SITC and HS classifications are similar, the SITC to HS concordance does not provide an exact mapping so there is some degree of approximation involved; Appendix B refers. Australian production weighted tariff data are obtained by Australian Standard Industrial Classification (ASIC) without using SINTIA; Appendix D refers. The concordances between HS-SALTER, HS-ISIC, ISIC-SALTER and ASIC-SALTER are provided in Appendix A. Note that New Zealand production weighted rates of protection (including non-tariff protection) is sourced from Syntec Economic Services (1988); Gotch (forthcoming) refers.

The results from the SINTIA project are provided in Tables 2, 3, and 4. Import weighted and production weighted averages along with simple averages are provided for completeness. An understanding of the SINTIA program and technique is required to extend or reproduce these tables. For this purpose a more detailed account of the SINTIA project is included below in Chapters 2 and 3. Gotch (forthcoming) lists the final rates (ie. including NTBs) that appear in the SALTER database.

Table 2: Average tariff rates weighted by the value of imports (per cent)

	<i>NZ</i>	<i>Canada</i>	<i>USA</i>	<i>Japan</i>	<i>Korea</i>	<i>EC</i>	<i>Indonesia</i>	<i>Malaysia</i>	<i>Philippines</i>	<i>Singapore</i>	<i>Thailand</i>
1 Paddy rice	0.0	0.0	1.2	0.0	5.0	98.5	0.0	0.0	0.0	0.0	0.0
2 Wheat	0.0	0.4	3.1	0.0	5.0	61.2	0.0	0.0	0.0	0.0	0.0
3 Other grains	2.6	0.2	0.8	11.6	5.0	61.3	0.5	0.2	20.7	0.0	0.0
4 Non-grain crops	0.4	1.5	1.8	5.2	4.8	9.0	6.5	7.7	35.1	0.0	3.8
5 Wool	0.0	0.0	2.6	0.0	2.0	0.0	0.0	2.0	0.0	0.0	30.0
6 Other livestock products	0.0	1.0	1.2	3.2	6.1	7.6	10.4	2.5	22.9	0.3	2.8
7 Forestry	0.0	0.0	0.3	0.0	2.0	0.0	13.5	17.3	10.1	0.0	0.5
8 Fishing	3.3	0.3	0.1	7.4	13.8	6.8	9.2	3.5	11.2	0.0	20.4
9 Coal	0.0	0.0	0.0	0.0	1.0	0.0	5.0	4.5	10.2	0.0	14.7
10 Oil	0.0	0.0	0.6	20.1	5.0	0.0	0.0	0.1	10.0	0.0	0.0
11 Gas	9.7	2.7	0.0	0.0	5.0	0.1	0.0	0.4	0.0	0.0	0.0
12 Other minerals	1.8	0.3	0.3	0.0	2.2	0.0	3.6	3.3	27.2	0.0	9.7
13 Processed rice	0.0	0.5	4.0	0.0	5.0	66.8	0.0	0.1	50.0	0.0	0.0
14 Meat products	11.4	2.8	1.8	13.3	29.6	39.8	30.4	5.6	34.6	0.0	43.5
15 Milk products	7.3	16.9	8.1	26.4	21.6	49.3	24.9	13.8	25.6	0.0	15.4
16 Other food products	13.2	6.0	3.7	11.9	10.4	10.8	16.3	8.2	38.2	4.7	30.2
17 Beverages and tobacco	42.5	25.1	3.6	27.9	37.5	37.3	30.5	39.1	49.5	0.5	36.5
18 Textiles	7.7	18.6	10.3	6.7	13.6	8.8	33.9	24.3	37.3	0.5	48.4
19 Wearing apparel	40.5	23.3	19.1	12.5	18.7	13.2	42.5	29.6	50.0	0.5	10.6
20 Leather and fur products	27.0	18.1	10.5	15.0	10.4	7.2	30.4	29.6	41.7	0.5	34.2
21 Lumber and wood products	16.1	6.8	2.7	1.6	5.8	3.1	34.2	32.7	34.3	0.5	3.1
22 Pulp, paper and printing	12.4	5.2	0.6	0.8	4.7	5.1	11.0	6.1	31.4	0.0	17.3
23 Petroleum and coal products	10.9	1.4	1.2	29.9	4.7	1.9	4.9	13.5	10.1	4.8	13.5
24 Chemicals, rubber and plastic	8.3	9.8	5.8	5.2	13.0	7.3	14.1	9.5	24.0	0.6	27.6
25 Non-metallic mineral products	14.6	8.4	7.3	3.0	15.1	6.7	14.7	22.5	34.5	0.0	29.7
26 Primary iron and steel	10.9	7.3	4.4	3.5	8.0	5.1	4.7	8.9	10.9	0.0	9.5
27 Non-ferrous metals	5.7	2.7	1.1	3.9	8.0	1.8	9.1	4.7	20.6	0.0	12.5
28 Fabricated metal products	19.2	9.4	4.4	3.4	15.3	5.5	20.3	15.1	29.3	0.0	28.1
29 Transport equipment	13.9	8.1	3.2	1.7	6.5	5.3	51.2	15.8	22.8	4.2	25.9
30 Other machinery	13.7	5.7	3.4	1.2	13.9	6.1	12.7	7.6	25.0	0.5	30.9
31 Other manufacturing	20.6	9.4	5.9	2.5	12.7	5.2	33.8	12.2	38.2	0.5	26.6
32 Electricity, gas and water	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 3: Average tariff rates weighted by the value of domestic production (per cent)

	<i>Canada</i>	<i>USA</i>	<i>Japan</i>	<i>Korea</i>	<i>EC</i>	<i>Indonesia</i>	<i>Malaysia</i>	<i>Philippines</i>	<i>Singapore</i>
Beverages and tobacco	13.5	5.8	29.1	37.1	34.0	49.5	30.3	42.5	5.3
Textiles	17.2	11.3	8.8	14.9	9.7	41.9	26.4	39.9	0.5
Wearing apparel	21.8	12.8	12.7	19.6	12.3	56.1	27.3	0.0	0.5
Leather and fur products	15.5	14.5	23.4	13.3	8.1	53.1	28.5	41.5	0.5
Lumber and wood products	7.6	4.4	4.1	13.6	5.7	26.3	21.1	36.7	0.5
Pulp, paper and printing	5.7	2.1	2.1	10.9	7.3	21.4	16.0	33.0	0.0
Petroleum and coal products	5.2	1.4	22.9	10.7	2.5	0.0	6.6	0.0	1.1
Chemicals, rubber and plastic	8.8	5.4	4.9	14.6	7.0	24.9	20.2	25.1	0.3
Non-metallic mineral products	7.3	5.2	3.1	13.3	5.4	29.6	19.4	27.3	0.0
Primary iron and steel	7.6	5.0	4.1	8.8	4.9	16.7	16.5	0.0	0.0
Non-ferrous metals	6.1	3.5	12.0	10.4	4.5	0.0	6.2	0.0	0.0
Fabricated metal products	9.1	4.9	3.3	15.3	5.6	27.2	19.5	28.7	0.5
Transport equipment	7.8	2.9	1.0	17.4	7.8	68.1	21.6	30.2	2.8
Other machinery	6.3	4.0	1.6	15.4	4.9	18.1	20.8	30.3	0.5
Other manufacturing	7.2	5.6	3.4	14.7	4.7	35.9	13.9	35.9	0.5

Table 4: Simple average tariff rates

	<i>NZ</i>	<i>Canada</i>	<i>USA</i>	<i>Japan</i>	<i>Korea</i>	<i>EC</i>	<i>Thailand</i>	<i>Malaysia</i>	<i>Philippines</i>	<i>Indonesia</i>	<i>Singapore</i>
Paddy rice	0.0	0.0	3.1	0.0	5.0	94.9	0.0	0.0	0.0	0.0	0.0
Wheat	0.0	0.4	4.9	5.0	5.0	42.0	0.0	1.3	0.0	0.0	0.0
Other grains	1.9	0.8	1.6	5.8	7.5	22.7	0.0	2.9	35.0	6.2	0.0
Non-grain crops	3.5	3.8	4.3	5.7	20.4	8.8	32.0	10.0	35.4	17.4	3.6
Wool	0.0	0.0	2.2	0.0	2.0	0.0	30.0	2.0	0.0	5.0	0.0
Other livestock products	0.0	1.2	1.4	5.8	10.3	8.9	16.1	6.6	26.0	7.7	0.3
Forestry	0.0	0.5	0.3	0.1	2.6	0.5	6.6	18.4	11.1	14.0	0.0
Fishing	2.3	0.9	0.8	7.0	18.8	8.5	37.5	20.0	27.3	26.7	0.0
Coal	0.0	1.3	0.0	0.6	2.0	0.2	20.0	4.1	15.0	5.0	0.0
Oil	0.0	3.4	0.4	10.1	5.0	0.0	7.5	3.3	15.0	3.3	0.0
Gas	6.2	7.3	0.0	1.4	5.0	1.4	0.0	2.4	18.8	5.0	0.0
Other minerals	2.3	2.1	1.5	0.1	4.9	0.3	10.1	4.2	16.6	6.3	0.0
Meat products	10.2	5.9	5.1	11.7	30.3	29.7	50.3	15.3	34.0	40.0	0.0
Milk products	10.5	16.4	8.9	27.5	32.9	35.4	27.5	17.6	20.6	27.4	0.0
Processed rice	0.0	0.5	7.8	0.0	5.0	90.0	0.0	1.3	50.0	1.3	0.0
Beverages and tobacco	43.2	18.4	8.4	43.6	39.9	25.3	29.4	32.6	46.0	43.9	4.2
Other food products	10.9	7.7	6.2	19.5	20.2	18.1	31.7	20.5	35.9	28.6	0.4
Textiles	8.9	17.4	10.9	7.5	14.7	9.3	43.4	26.7	39.9	42.2	0.5
Wearing apparel	45.2	23.2	14.6	13.0	19.7	12.8	0.5	27.3	49.7	56.9	0.5
Leather and fur products	17.8	12.6	10.7	24.5	16.8	6.1	13.5	25.3	36.5	39.3	0.5
Lumber and wood products	12.5	7.5	4.3	4.3	10.7	4.7	29.3	20.6	34.7	27.2	0.5
Pulp, paper and printing	18.1	6.1	2.0	2.5	11.8	7.4	28.7	11.8	32.5	22.6	0.0
Petroleum and coal products	6.6	4.8	2.6	17.7	9.4	2.9	17.2	6.9	15.9	5.6	1.1
Chemicals, rubber and plastic	8.1	9.1	6.9	6.3	14.3	7.3	24.8	14.8	20.1	17.0	0.5
Non-metallic mineral products	12.7	8.3	7.2	3.4	15.3	6.0	38.1	22.0	34.2	34.6	0.0
Primary iron and steel	10.9	8.0	5.2	4.0	9.8	5.4	14.6	17.3	16.3	17.6	0.0
Non-ferrous metals	7.7	6.6	3.8	12.0	11.0	5.0	18.4	8.7	23.2	13.2	0.5
Fabricated metal products	15.7	9.2	4.6	3.3	15.4	5.6	28.9	18.9	33.2	23.5	0.0
Transport equipment	16.4	8.9	3.8	1.9	13.3	6.4	23.7	19.1	25.8	46.1	1.9
Other machinery	14.3	6.8	4.2	2.2	15.0	4.9	29.9	13.2	23.5	17.3	0.5
Other manufacturing	14.3	9.6	6.6	4.3	15.0	6.0	27.8	13.0	35.2	39.3	0.5
Electricity, gas and water	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0

2 A SUMMARY OF SINTIA

Introduction to SINTIA

Software for Industrial, Trade and Incentives Analysis (SINTIA) is a program developed by the World Bank for use on MS-DOS machines. The program documentation states that a computer with 640K of RAM is required to run SINTIA. In practice one must ensure that MS-DOS is not loaded into the Upper Memory Area and that the conventional RAM memory is otherwise as vacant as possible before the program will run. This involves setting up a non-standard system configuration in order to accommodate the program (see Appendix C). The reader is also referred to World Bank (1988).

SINTIA primary data files

The SINTIA program contains no tariff data *per se*. The program summarises tariff information stored in formatted data files. Figure 2 shows the data structure used by the SINTIA project. A primary data file is the basis of any SINTIA operation. An extract from a primary data file is shown in Example 1.

The primary data file is a list of HS items and the corresponding *ad valorem* tariff for each item. Value of imports for each HS item can also be listed in the file. Primary data files currently exist for New Zealand, Canada, the United States, Japan, Korea, the European Community, Indonesia, Malaysia, Philippines, Singapore and Thailand. The primary data file can be created interactively from within the program, or can be read by the program from an ASCII file. The fastest and most accurate way of creating a primary data file is to use an ASCII file. The program can read a primary data file in ASCII format and convert it to SINTIA format. The information contained in the ASCII format primary data file must be arranged in columns, as follows:

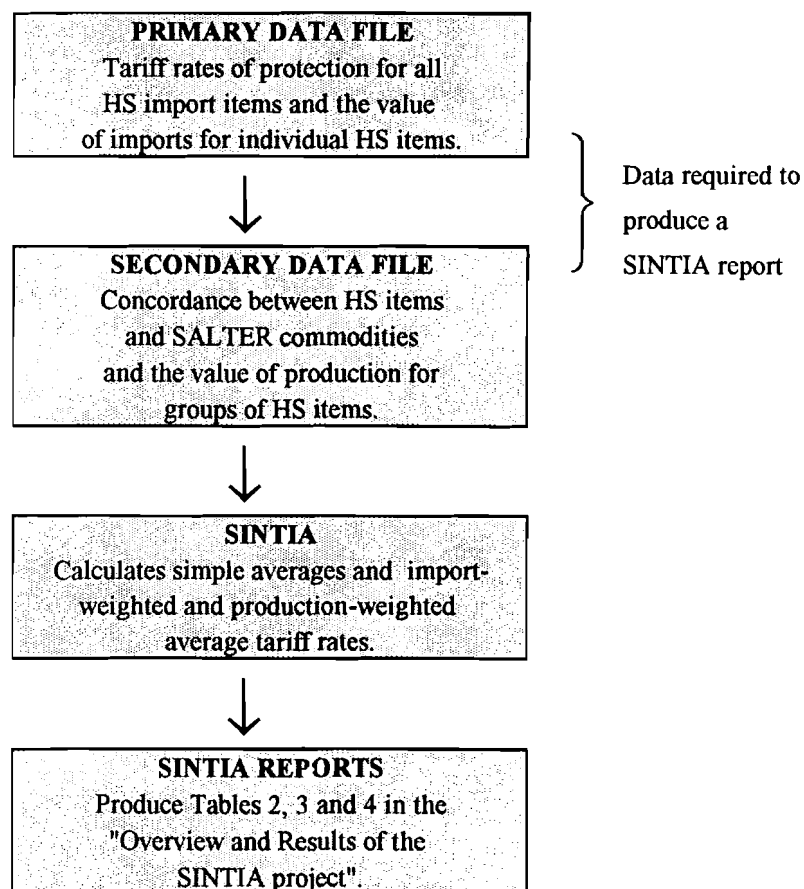
Example 1.

HS code	Tariff	Other	Category	Import Value
101110000	15.0	.0	A	.0
101191000	13.0	.0	AM	676.0

The HS code is a numeric description of each commodity. HS stands for Harmonized System and is a standard method of classification. For example, the HS codes listed above correspond to types of live horses. Each HS code can have between six and ten digits, the greatest disaggregation of commodity types exists at the ten digit level. Following previous work, the SINTIA project uses

the ten digit code (see Appendix B for a summary of previous work). Although ten digit code is used here, SINTIA can work with HS items of different code lengths. For more details on HS code, see the section titled *Formatting SINTIA data files*.

Figure 2: The process to obtain tariff data



The tariff column figures express tariff rates as a percentage of the value of imports, with up to three figures before the decimal point and one after. The tariff rate can be an *ad valorem* rate or an *ad valorem* equivalent. In most existing primary data files, *ad valorem* equivalents have been calculated for specific taxes. A specific tax is a fee charged per physical unit of import, for example 12 yen per raincoat. The *ad valorem* equivalent is calculated by dividing the unit quantity tax by the border (cif) value per unit, where both values are expressed in like currency.

The column headed **Other** allows the user to separate *ad valorem* tariffs and other types of tariff-based import restriction. All data in this column must be expressed in *ad valorem* equivalent and be of the same format as the numbers in the previous column. A null value is indicated by .0 as shown in Example 1. Existing primary data files have not made use of this category.

The fourth column contains an optional description of each commodity by a user-defined category that can use zero, one or two letters. For example, the **A** may signify that the product is produced domestically and the **M** may signify that the product is also imported.

The final column contains the value of imports that can be used to weight the nominal rates of protection listed in the second and third columns. Production weights are discussed later in the chapter. The weight is typically expressed as the value rather than the volume of imports. Where value of imports is used, the value will preferably be the cif (border price excluding duty) value. If the value weights are expressed as the duty paid price, SINTIA provides a function that will approximate the border price.

The method of weighting is important because it is the process by which SINTIA finds average tariff rates for SALTER commodities. Each SALTER commodity aggregate includes many HS items that often have different rates of tariff protection. Any single average rate of protection for a SALTER commodity must be representative of the protection afforded to each HS item belonging to the SALTER commodity. To clarify these points, consider an example of weighting:

Example 2.

<i>HS commodity</i>	<i>Tariff (%)</i>	<i>Import Volume</i>	<i>CIF import value (\$)</i>	<i>Domestic Output (\$)</i>
Copper springs	15.0	1.7m pieces	450000.0	51750.0
Unrefined copper	5.0	2100 tonnes	420000.0	441000.0

The weighted average tariff protection applying to copper springs and unrefined copper can be calculated:

- (i) weighted by import volume, yielding 14.98 per cent, but comparing pieces and tonnes;
- (ii) weighted by cif import value, yielding 10.17 per cent;
- (iii) weighted by domestic production (output) value, yielding 6.05 per cent.

The problem is to determine an average rate of nominal protection for copper imports, given that the import volume is an inappropriate weight (it compares pieces with tonnes). The advantage of using the value of imports as a weight is that the value of imports will determine the tax revenue flowing from each imported commodity so we get the correct fiscal incidence. That is, commodities with greater values of imports will make a relatively larger contribution to the average tariff rate for the aggregate commodity. In addition, weighting the average rate by the value of imports accurately describes the tariff impact on average import prices. However, tariff rates of protection for inclusion in the SALTER database used production-weighted averages wherever possible. When production weights are used, import tariffs on goods that have no domestic competition are not counted in the average tariff rate. This means that the less assistance a tariff affords to a domestic industry, the relatively smaller is the influence of that tariff rate in the average tariff rate. Where more protection encourages domestic output, the industry records a higher average tariff. So the production weighted average tariff accurately describes the average protection received by domestic industry.

As mentioned above, currently primary data files exist for Canada, Japan, the United States, Korea, New Zealand, Singapore, Philippines, Indonesia, Malaysia, Thailand and the European Community. The generic file suffix is `.sin` for primary data files containing HS tariff rates and the associated values of imports. Primary data files containing only the tariff rates have the suffix `.tar`.

SINTIA secondary data files

Secondary data files are built using the primary data file as a foundation. Secondary data files show how the HS listing of data in the primary data file is to be aggregated into composite commodities. SINTIA can only work with a single primary data file at a time. Secondary data files allow commodities listed in the primary data file to be aggregated into groups.

Two broad methods of aggregation are available:

- (i) *Subsectors* based on HS commodities, grouped into *sectors* and grouped again into *partitions* or;
- (ii) *Sectors* based on HS commodities and grouped into *partitions*.

Subsectors, sectors and partitions are definitions used to group ranges of HS code in ascending levels of aggregation. The advantage of using aggregation method (i) is that this structure allows the user to calculate average tariff rates weighted by the value of imports (recorded in the primary data file) and by the

value of production (recorded in the secondary data file). That is, method (i) allows the user to replicate the averages shown in Figure 1. Method (ii) is used where weights are not required, or when weights in the primary data file (import weights) are the only weights to be used. The use of method (i) is recommended because it is more flexible. However, method (i) requires a secondary data file that includes weights (preferably production weights), whereas method (i) does not require or use weights in the secondary data file.

Secondary data files can each describe up to three structures: subsectors, sectors and partitions. These structures are simply a way to group and manipulate blocks of HS code, so a secondary data file can be interpreted as a type of concordance. A subsector typically consists of between one and twenty ranges of HS code. An example of a subsector is the SALTER commodity fishing. Fishing is defined in a secondary data file as:

Example 3.

```
subsector 1: 0301100000-0302709999
              0306210000-0307919999
              0508000000-0509009999
              0511910000-0511919999
```

That is, fishing is a series of four ranges of HS code. Each range includes commodities that have HS codes corresponding to fish products. Unlike the primary data files, secondary files are in ASCII form and have a format similar to that of Example 3. Chapter 3 explains more about file types. SINTIA is designed to create secondary data files interactively, that is, from within the SINTIA program, in response to a prompt for each range of HS code. Creating a file interactively is a tedious process, and can be avoided by creating the secondary data file independently of the program. The secondary data file can be created independently of SINTIA by using a line or text editor. The exact format of a secondary data file is described in the *Formatting SINTIA data files* section.

The next level of aggregation available for grouping HS code tariffs is the sector. Under method (i), the sector is based on previously defined subsectors. For example, a secondary data file may contain four fishing subsectors:

Example 4.

```
subsector 2: 0301100000-0302709999
subsector 3: 0306210000-0307919999
subsector 4: 0508000000-0509009999
subsector 5: 0511910000-0511919999

sector 1:      subsectors 2-5
```

The subsectors in Example 4 are grouped into a fishing sector corresponding to the SALTER fishing commodity group. The fishing sector is then the same as the fishing subsector defined in Example 3. Notice that sector definitions in the secondary data file must be listed below the subsector definitions. The SALTER fishing commodity could also have been defined as a sector that contained only subsector 1 from Example 3. This would mean that the subsector and the sector have the same definition in terms of HS code.

By method (ii), a secondary data file can exclude subsectors altogether and define a sector over ranges of HS code that correspond to a particular commodity composite. However, this method cannot be used to produce production or consumption weighted nominal rates of protection. Subsectors are used in preference to sectors because sectors cannot be weighted by import, production or consumption data.

The highest level of aggregation available is the partition. A partition consists of up to 9 sectors. The advantage of using partitions is that they allow the user to manipulate several sectors (or subsectors grouped into sectors) at once. For example, if SALTER commodities are defined as 37 sectors, these can be grouped into 5 partitions. Creating a single report displaying the import-weighted nominal rates of protection for each commodity can then be carried out in 5 runs through the reporting function. The same single report would take 37 runs through the reporting function if the user were reporting by individual sector, rather than by partition. Reporting functions are explained under the heading *Using the Reporting Function* below.

A secondary data file can only be used after a primary data file has been loaded in to the SINTIA program. The secondary data file will list subsectors and/or sectors, followed by a list of partitions. Each partition will be defined over a range of subsectors or sectors, and each sector is defined over a range of subsectors. The subsectors are defined over ranges of HS code, thus connecting the secondary data file to the underlying primary data file. Example 5 shows how a subsector may appear in a secondary data file.

Example 5.

```
1 0 493620 GLASS & GLASS PRODUCTS 2 170703.  
17001000000.7018909999.17020000000.7020009999.  
18546000000.8546109999.0 0. 0.
```

The structure of secondary data files is fully explained under the heading *Formatting SINTIA data files*. The subsector in Example 5 has a name, a less obvious number (49) and three ranges of HS code (stored in the primary data file) over which the subsector is defined. The subsector also has a weight, expressed as a value of glass production and equal to 170703. This weight is independent of any weights included in the primary data file. The operator must specify which weight (primary or secondary) SINTIA is to use.

Example 6 demonstrates how a sector may appear in a secondary data file. Sector definitions are listed below the subsector definitions in the file.

Example 6.

```
291 3non-m non-metallic mins 1 0.  
1 48. 52.0 0. 0.
```

The subsector in Example 5, glass products, is included in the sector called "non-metallic minerals", which is a commodity aggregate in the SALTER model. The sector is defined over subsectors 48 to 52. Recall that a weight cannot be assigned to a sector.

Partitions are not defined in the same way as subsectors and sectors. In the secondary data file, the sector definition will also include information on the partition status of the sector in question. In Example 6, the first three digits in the sector definition are 291, indicating that the sector belongs to a partition (denoted by the digit 2); partition number 91. Recall that each partition can include a maximum of nine sectors.

SINTIA secondary data files can be one of three types: import, production or consumption files. The difference between production and consumption files is largely superficial. Both files contain subsectors defined as groups of HS code and possibly further aggregated into sectors and partitions. If the file is a production file, the subsectors include values of production. If the file is a consumption file, the subsectors include values of consumption. The title line of the file will say what type of file you have. See Example 9 in Chapter 3 for more details.

Import-type secondary data files contain HS codes grouped into subsectors that correspond to SALTER commodities or other composite goods. Weights do not

need to be included in the import file if the weights have been included at the primary data level, as in Example 1. Production and consumption secondary data files do not use any weights that may be present in the primary data file. For more details on secondary data files, see *Formatting SINTIA data files*.

SINTIA output functions

Having been furnished with a primary and secondary data file, SINTIA can:

- (i) calculate weighted and unweighted nominal rates of protection and;
- (ii) perform simulations regarding import tax revenue.

Option (i) is executed via the REPORT menu choice and is used extensively for processing SALTER input data. Option (ii) is of no direct use in this context. For a complete treatment of SINTIA output functions, refer to World Bank (1988).

To demonstrate the reporting function, say that a primary data file (`canada.sin`) and the secondary data files (`canProd.val`, `import.d`) exist. The primary data file lists the HS code in ascending order and the tariff rates that correspond to each HS code number. Also listed is the value of imports for each HS code and other duties that apply to the HS commodity code in question. Example 1 shows what the first lines of this file would look like when converted to ASCII format, but note that SINTIA converts the ASCII file to binary before use.

The secondary data file `import.d` contains a mapping between HS code and the SALTER commodity aggregates. That is, the ranges of HS code relating to a SALTER commodity are defined as subsectors. The file `import.d` is an import-type secondary data file and the file `canProd.val` is a production-type secondary data file. The generic structure of `import.d` can be seen in Example 7.

Example 7.

```
Fishing = subsector 1: 0301100000-0302709999
                      0306210000-0307919999
                      0508000000-0509009999
                      0511910000-0511919999
Petroleum = subsector 2: 2710000000-2710009999
                       2711210000-2711299999
                       2712000000-2713909999
Coal = subsector 3: 3403110000-3403199999
Fishing = sector 1: subsectors 1-1
Petrol and coal = sector 2: subsectors 2-3
Partition 1: includes sectors 1-2
```

SINTIA import-type secondary data files that presently exist for use with the SALTER commodities have used subsectors to define SALTER commodities. Sectors are thus redundant in the sense that the HS codes contained in the subsectors do not need to be further aggregated, as can be seen in Example 7. When it is convenient to work with groups of SALTER commodities, sectors are set equal to subsectors to allow commodities to be grouped into partitions. Defining a commodity as a subsector and a sector is necessary because subsectors cannot be grouped directly into partitions. In fact, `import.d` should strictly be a file of sectors based on HS code directly. That `import.d` uses subsectors is not a serious failing and does not change the results derived from the file. The file `import.d` contains no weights. This is because the value of imports has been included in the primary data file for each HS commodity. This allows the file `import.d` to be used with primary data files for a number of countries.

The file `canProd.val` contains subsectors mapping HS code to International Standard Industrial Classification (ISIC). The subsectors are then aggregated into sectors representing the SALTER aggregate commodities. Lastly, sectors are grouped into partitions so that they can be easily manipulated. Example 8 shows the generic format of `canProd.val`.

Example 8.

```

Distilling industries = subsector 1: 2207000000-2208909999      456684
Wine industries = subsector 2:      2204000000-2206009999      98127
                                   2303300000-2303309999
                                   2307000000-2307009999
Malt & malt liquors = subsector 3: 1107000000-1107209999      12546
                                   2203000000-2203009999
Soft drinks & water = subsector 4: 2201000000-2202909999      9458
Tobacco manufacture = subsector 5: 2402000000-2403999999      259133

Beverages & tobacco = sector 1:      subsectors 1-5

Partition 1:                          includes sector 1

```

The production file `canProd.val` is similar to the import file described in Example 7, except that it contains an additional parameter for each subsector. The last column in Example 8 is the value of production associated with the HS commodities in each subsector, that is, the production weight.

For instructions on how to create or modify primary and secondary data files, refer to the section *Formatting SINTIA data files*.

Using the reporting function

The tariff information contained in the primary data file is summarised using the secondary data file as the basis for aggregation. The summarised (average) tariff rates are obtained using the reporting function provided by SINTIA. This process was employed to generate the figures in Tables 2, 3 and 4.

The first report to retrieve is the import weighted and unweighted average nominal rates of protection for the SALTER commodities. What follows is a brief description of the reporting function. This process is best understood by using SINTIA, or whilst studying the SINTIA User's Guide.

1. First ensure that a primary data file and the necessary secondary data files exist. An import-type secondary data file and a production-type secondary data file are required to reproduce the SALTER tariff estimates. Refer to Appendix B for a description of currently existing data files. Install SINTIA on a computer by copying the program into a directory on the hard disk. Refer to Appendix C for the necessary system setup files. Restart your computer. Next execute SINTIA by typing **SINTIAT** (a batch file) or by typing **SINTIA1** (the program) and select **REPORT** from the main menu. SINTIA will prompt you for the name of the primary data file. Type **canada.sin**.
2. SINTIA will ask for the data to be reported on. Choose option 6: **customs tariffs + other import duties + flat uniform import duty**. The other options are self-explanatory.
3. SINTIA will ask for the type of analysis to be performed. Choose option 2: **weighted**. This will also return the unweighted values.
4. Next SINTIA asks for the type of weights to be used. In the case of import weighted data choose option 1: **HS-level**. In the case of production weighted data choose option 2: **aggregated**. For now choose option 1.
5. From the next menu (weighted analysis) choose option 1: **average NRP for a partition of sectors**. This will report on one partition. In order to get reports for other partitions, the reporting process must be repeated.
6. From the next menu (partitions to report on) choose option U: **user-defined partitions**. SINTIA will prompt you for a sector file. At this stage, SINTIA is asking for the secondary data file. Type **import.d** in response to the prompt. This will result in an import-weighted report. Type **canProd.val** to obtain production-weighted data, depending on the choice made at step 4. Follow the SINTIA prompts from here to obtain a graph or a table of the NRP for the partition that is selected.

7. To print the screen output of the graph or the table to a file, type number 2. SINTIA will then prompt you for the name of a file to write the output to.

Follow a similar procedure to obtain results weighted by the production values, in particular see step 4. Each run through the reporting steps (steps 2-7) will report on a single partition, so several reports may be necessary. SINTIA has an easily accessible menu option that allows you to view how many partitions exist in the secondary data file, and what each partition contains.

To see the files in the current directory or to change the path without exiting from SINTIA, type F6 and F5 respectively. Other operations available in SINTIA are displayed on the screen as menu items. Menu choices are easily understood and SINTIA will prompt you for information. See World Bank (1988) for details.

3 CREATING NEW SINTIA DATA

Creating a SINTIA file

Before creating any SINTIA data file, make sure that the data file does not already exist. See Appendix B for a summary of existing data. To create a primary data file, raw HS customs data must be obtained from the country in question. A secondary data file is easier to create, requiring only a concordance to guide the aggregation of HS items and a set of production values. The collected customs data need to be formatted in a text (ASCII) file in a way that will be recognised by SINTIA. Any text editor (eg. Blackbeard or Microsoft Word) can be used to create the formatted ASCII file.

Formatting SINTIA data files

Formatting primary data files is reasonably straightforward. Be prepared to generate a file that is similar in format and content to the file extract in Example 1. Ensure that the information fields in each line are (right) aligned to the corresponding fields in the lines above and below. The HS code numbers can be from six to ten digits in length, but each number must conform to the same standard. Leading zeros can be replaced by a space. Import weights should not exceed 8 digits in length. The category fields are optional in the file, but must be specified as zero fields to SINTIA. Next use option 7 (Advanced file manipulator) from the SINTIA main menu to convert the file to SINTIA format. At this stage the user will be required to provide SINTIA with the name of the ASCII file and a FORTRAN description of the file's format (see World Bank 1988, page VII-3). When in doubt as to what a primary data file should look like, create a few lines interactively (ie. create a file with a sample of the data from within the SINTIA program) and use the advanced file manipulator to convert the file to readable (ASCII) format.

Creating a secondary data file requires the user to employ an exact formatting procedure. An effective way to find out the required format is to print out an existing secondary data file of the same type as the file being created, then to use this file as a template for the new file. Should this fail, another useful method is to enter a small section of the file interactively (refer to World Bank (1988) to determine how the file should be formatted. SINTIA will return an error message if the format is incorrect. When formatting the data file, it is important to work in a font that uses an equal amount of line space per character (a non-proportional font), such as courier.

The uppermost line in a SINTIA secondary data file is the numeric description of the file and a name of the file contents. Like every other line in the file, the uppermost line must be exactly 46 characters in length.

Example 9.

0432 Groupings of HS code for the SALTER model

In Example 9, 0432 is the numeric description. The first character in each line must begin at the start of the line and a space is a valid first character only in the uppermost line and only when it replaces a leading zero. The numeric description in Example 9 means that SINTIA expects the file to contain 043 blocks of data. The explanation of a block is given below. The last number of the code (2), means that the file is an import-type secondary data file. If the contents of the file are different from the numeric description then SINTIA will be unable to read the file. A production file is signified by the number 1 and a consumption file is signified by the number 3.

The remainder of the file is broken up into blocks. Each block is preceded by a title line and there are no blank lines left between blocks.

Example 10.

1 0AAAbbbbbb(1-22)ccc(1-8).

The first three characters in the title line are : one, space, zero. These characters signify that the block contains data describing a subsector. The **AAA** is a three digit number denoting the number of the subsector. If the number is only two digits long, the leading digit is replaced with a space. The **bbbbbb** is a string of exactly six alphanumeric characters and is the abbreviated name of the subsector block. If the abbreviated name is less than six characters long, the remainder of the string must be filled with spaces. Immediately following the abbreviated name string is the full name string, which is exactly 22 characters in length. Do not include the brackets. Again, if the name is less than 22 characters long the remainder of the string must be filled with spaces. The **ccc** is a three digit number of the same format as the **AAA** number and denotes the number of pairs of HS code ranges that the block contains. Lastly, provision is made for a weight. The weight must be an integer of less than 9 digits and followed by a full stop. The leading zeros need to be filled out with spaces. That is, if the weight is 7 digits long, precede the weight with a single space character. The 7 digit weight is thought to have one leading zero when written as an 8 digit number. Thus the block title line contains 46 characters. Weights will all be zero in the import-type secondary data file because the weights are generally included in the primary data file.

On the next line below the title line, a block contains one or more lines with pairs of ranges of HS code. Example 11 shows a block with a title line and five lines of pairs of ranges of HS code.

Example 11.

```
1 0 23petr petroleum & coal prod 5 0.
12706000000.2706009999.12708100000.2708209999.
12710000000.2710009999.12712100000.2713909999.
12715000000.2715009999.12901100000.2902909999.
14807910000.4807919999.14811100000.4811109999.
16807100000.6807109999.0 0. 0.
```

Each range of code has a beginning number and a finishing number, which can be the same. The beginning number of each range commences with the digit 1, except where the range is a null range. A null range is used when there is an uneven number of ranges in the block. The final range in the block in Example 11 is a null range. A null range will always occur in the last range of a block with an uneven number of ranges. The null range begins with a zero.

The first number in each range begins with the digit one, followed by a 10 digit HS code. The second number in each range contains only the 10 digit HS code that defines the end of the range. Six digit HS code can readily be converted to 10 digit code by appending four zeros to the end of the first number in the range, and by appending four nines to the finishing number in the range. Ten digit HS code numbers that have a leading zero will appear as in the example below.

Example 12.

```
1 0 8fish fishing 2 59346.
1 301100000. 302709999.1 306210000. 307919999.
1 508000000. 509009999.1 511910000. 511919999.
```

Notice that there is a leading space before each number in the ranges in Example 12 that replaces the leading zero in the HS code numbers. In this example, the block identifier is 8 and SINTIA expects to read 2 lines containing ranges that define the subsector called **fishing**, with the abbreviated name **fish**. The weight assigned to this subsector is **59346**. The presence of a non-zero weight in a secondary data file suggests that the file is either a production-weighted or a consumption-weighted file because import weights are usually contained in the primary data file. The subsector in Example 11 could well be drawn from a secondary data file containing import data because the weight is absent.

The block structures described above all relate to the definition of a subsector in the secondary data file. Blocks are also used to define sectors and partitions.

The definition of a sector based on subsectors (recall that sectors can also be based on HS code) is included in the definition of a partition. That is, sectors and partitions are defined in the same block.

Example 13.

```

297 10oil    oil commodities      1      0.
1      10.      10.0      0.      0.

```

Example 13 defines a partition called **oil commodities** that has the abbreviated name **oil**. The title line of the block begins with the number 2 that indicates that this block is a sector that belongs to a partition. The partition number is 97 and the sector number is 10. In the example, sector 10 belonging to partition 97 is defined as being equal to (ranges over) subsector 10. Other subsectors could be included in the sector range, but no more than 9 sectors may be grouped into the same partition.

Notice that in this example there is no change in the degree of aggregation when moving between the oil subsector and the oil sector. If in the secondary data file every commodity composite duplicated the subsector definition in the sector definition it would be more efficient to define sectors based on HS code, thereby avoiding the use of subsectors. Remember, though, that weights cannot be assigned to sectors.

In Example 14, a small file shows how blocks appear in the file. There are no blank lines left, the lines are all of the same length and the definitions of sectors and partitions are listed below the subsector definitions. Example 14 shows an import secondary data file that contains mappings of HS code to some of the SALTER composite commodities. There are no weights because these are contained in the primary data file.

Example 14.

```

162groupings of HS code for SALTER
1 0 1rice paddy rice      1      0.
1 100610000. 100629999.0      0.      0.
1 0 2whea wheat          1      0.
1 100110000. 100199999.0      0.      0.
1 0 3cat3 other grains    1      0.
11002000000.1005909999.11007000000.1008909999.
1 0 4non-g non-grain crops      9      0.
1 409000000. 409009999.1 601100000. 604999999.
1 701100000. 709909999.1 713100000. 714909999.
1 801100000. 810909999.1 813100000. 814009999.
1 901110000. 910999999.11201000000.1207999999.
11209110000.1213009999.11301100000.1302199999.
11401100000.1404909999.11521100000.1521909999.
11801000000.1801009999.12401100000.2401109999.
14001100000.4001309999.15201000000.5202999999.

```

15301100000.	5305999999.0	0.	0.
1 0 5	wool wool	1	0.
15101110000.	5101299999.0	0.	0.
1 0 6	cat6 livestock	4	0.
1 101110000.	106009999.1 407000000.	407009999.	
1 501000000.	503009999.1 505100000.	507909999.	
1 510000000.	511999999.14101100000.	4103909999.	
14301100000.	4301909999.15001000000.	5003909999.	
1 0 7	for forestry	1	0.
14401100000.	4403999999.14501100000.	4502009999.	
1 0 8	fish fishing	2	0.
1 301100000.	302709999.1 306210000.	307919999.	
1 508000000.	509009999.1 511910000.	511919999.	
296 1s1	paddy rice	1	0.
1	1. 1.0	0.	0.
296 2s2	wheat	1	0.
1	2. 2.0	0.	0.
296 3s3	other grains	1	0.
1	3. 3.0	0.	0.
296 4s4	non-grain crops	1	0.
1	4. 4.0	0.	0.
296 5s5	wool	1	0.
1	5. 5.0	0.	0.
296 6s6	livestock	1	0.
1	6. 6.0	0.	0.
296 7s7	forestry	1	0.
1	7. 7.0	0.	0.
296 8s8	fishing	1	0.
1	8. 8.0	0.	0.

Example 15 shows how a production file would appear when all the blocks are put together. It provides a mapping between HS code and the more aggregated International Standard Industrial Classification (ISIC) code. Notice that the file includes weights and that the abbreviated name for each subsector is an ISIC code number.

Example 15.

1361HS to ISIC translation for Japan

1 0 13111	SLAUGHTERING	4 2018153.
1 201000000.	210909999.1 504000000.	507909999.
1 511000000.	511999999.11501000000.	1502009999.
11601000000.	1603009999.12104000000.	2104109999.
12301000000.	2301109999.0	0. 0.
1 0 23112	DAIRY PRODUCTS	2 1331742.
1 401000000.	406909999.11702000000.	1702109999.
12105000000.	2105009999.13501000000.	3501109999.
1 0 33113	FRUIT & VEG CANNING	4 1403073.
1 710000000.	712909999.1 811000000.	814009999.
12001000000.	2005909999.12007000000.	2007999999.
12008200000.	2008999999.12009000000.	2009909999.
12103200000.	2103209999.0	0. 0.

1 0 43114	FISH CANNING	4 3050496.
1 305000000.	305699999.1	307290000. 307299999.
1 307390000.	307399999.1	307490000. 307499999.
1 307590000.	307599999.1	307990000. 307999999.
11604000000.	1605909999.12301200000.	2301209999.
1 0 53115	VEG & ANIMAL OILS	2 733680.
11208000000.	1208909999.11503000000.	1504309999.
11506000000.	1518009999.12304000000.	2306909999.
1 0 63116	GRAIN MILL PRODUCTS	3 1402588.
1 713000000.	713909999.11006200000.	1006409999.
11101000000.	1106309999.11903000000.	1904909999.
12302000000.	2302509999.0	0. 0.
1 0 73117	BAKERY PRODUCTS	1 2810841.
11902000000.	1902409999.11905000000.	1905909999.
1 0 83118	SUGAR REFINING	2 267855.
11701910000.	1701999999.11703000000.	1703909999.
12303200000.	2303209999.0	0. 0.
1 0 93119	CONFECTIONERY	2 713206.
11704000000.	1704909999.11802000000.	1806909999.
12006000000.	2006009999.12008000000.	2008199999.
1 0 103121	FOOD PRODUCTS NEC	9 3724146.
1 408000000.	408999999.1 410000000.	410000000.
1 801000000.	802909999.1 901000000.	910999999.
11108000000.	1109009999.11302200000.	1302209999.
11702200000.	1702909999.11901000000.	1901909999.
12101000000.	2102309999.12103000000.	2103109999.
12103300000.	2103909999.12104200000.	2104209999.
12106000000.	2106909999.12209000000.	2209009999.
12303000000.	2303109999.12501000000.	2501009999.
13502000000.	3502909999.0	0. 0.
1 0 113122	PREPARED ANIMAL FEED	1 1291570.
12308000000.	2309909999.0	0. 0.
1 0 123131	DISTILLING INDUSTRIES	1 1509463.
12207000000.	2208909999.0	0. 0.
1 0 133132	WINE INDUSTRIES	2 44810.
12204000000.	2206009999.12303300000.	2303309999.
12307000000.	2307009999.0	0. 0.
1 0 143133	MALT & MALT LIQUORS	1 1147710.
11107000000.	1107209999.12203000000.	2203009999.
1 0 153134	SOFT DRINKS & WATER	1 876312.
12201000000.	2202909999.0	0. 0.
1 0 163140	TOBACCO MFG	1 2082255.
12402000000.	2403999999.0	0. 0.
290 1meat	meat products	1 0.
1 1.	1.0	0. 0.
290 2milk	milk products	1 0.
1 2.	2.0	0. 0.
290 3food	other food products	1 0.
1 3.	11.0	0. 0.
290 4bev&tob	everages and tobacco	1 0.
1 12.	16.0	0. 0.

APPENDIX A: CONCORDANCES

SALTER commodities to International Standard Industrial Classification

SALTER	ISIC
Food, beverages and tobacco	310
Textiles	321
Wearing apparel	322
Fur, leather and footwear	323to324
Lumber and wood products	331
Pulp, paper and printing	341to342
Petroleum and coal products	35B
Chemicals, rubber and plastic	35Aand355
Non-metallic mineral products	36A
Primary iron and steel	371
Non-ferrous metals	372
Fabricated metal products	381
Transport equipment	384
Other machinery	382to383
Other manufacturing	38A

Standard International Trade Classification 6-digit to Harmonised System.

SITC	HS	SITC	HS	SITC	HS	SITC	HS
00111	10210	51622	291229	65833	630140	74710	848110
00119	10290	51622	291230	65839	630190	74720	848120
00121	10410	51622	291241	65841	630210	74730	848130
00122	10420	51622	291242	65842	630221	74740	848140
00131	10310	51622	291249	65842	630231	74780	848180
00139	10391	51622	291250	65843	630222	74790	848190
00139	10392	51622	291260	65843	630229	74810	848310
00141	10511	51623	291411	65843	630232	74821	848320
00141	10519	51624	291412	65843	630239	74822	848330
00149	10591	51625	291413	65844	630240	74831	731511
00149	10599	51625	291419	65845	630251	74832	731512
00151	10111	51626	291300	65846	630252	74839	731519
00151	10119	51627	291421	65846	630253	74840	848340
00152	10120	51628	291422	65846	630259	74850	848350
00190	10600	51628	291423	65847	630260	74860	848360
01111	20110	51628	291429	65847	630291	74890	848390
01111	20120	51629	291430	65848	630292	74911	848010
01112	20130	51629	291441	65848	630293	74912	848020
01121	20210	51629	291449	65848	630299	74913	848030
01121	20220	51629	291450	65851	630311	74914	848041
01122	20230	51629	291461	65851	630312	74915	848049
01211	20410	51629	291469	65851	630319	74916	848050
01211	20421	51629	291470	65851	630391	74917	848060
01211	20422	51631	291900	65851	630392	74918	848071
01211	20423	51639	292010	65851	630399	74919	848079
01212	20430	51639	292090	65852	630411	74920	848410
01212	20441	51691	350710	65852	630419	74920	848490
01212	20442	51691	350790	65859	630491	74991	848510
01212	20443	51692	294000	65859	630492	74999	848590
01213	20450	51699	294200	65859	630493	75113	846910
01221	20311	52210	280300	65859	630499	75115	846921
01221	20312	52221	280410	65891	580500	75116	846929
01221	20319	52221	280421	65892	630710	75118	846931
01222	20321	52221	280429	65893	630720	75119	846939
01222	20322	52221	280430	65893	630790	75121	847010
01222	20329	52221	280440	65899	630800	75122	847021
01231	20710	52222	280450	65911	481500	75122	847029
01232	20721	52222	280470	65912	590410	75122	847030
01232	20722	52222	280480	65912	590491	75123	847040
01232	20723	52222	280490	65912	590492	75124	847050
01233	20731	52223	280461	65921	570110	75128	847090
01234	20739	52223	280469	65929	570190	75131	900911
01235	20741	52224	280110	65930	570210	75132	900912
01235	20742	52225	280120	65941	570310	75133	900921
01235	20743	52225	280130	65942	570320	75134	900922
01236	20750	52226	280200	65943	570330	75135	900930

01240	20500	52227	280540	65949	570390	75191	847210
01251	20610	52228	280511	65951	570231	75192	847220
01252	20621	52228	280519	65951	570241	75193	847230
01252	20622	52229	280521	65951	570251	75199	847290
01252	20629	52229	280522	65951	570291	75210	847110
01253	20630	52229	280530	65952	570232	75220	847120
01254	20641	52231	280610	65952	570242	75230	847191
01254	20649	52231	280620	65952	570252	75260	847192
01255	20680	52232	280700	65952	570292	75270	847193
01256	20690	52233	280800	65959	570220	75290	847199
01291	20810	52234	280910	65959	570239	75910	900990
01292	20820	52234	280920	65959	570249	75991	847310
01293	30760	52235	281000	65959	570259	75993	847340
01299	20890	52236	281111	65959	570299	75995	847321
01611	21011	52236	281119	65961	570410	75995	847329
01612	21012	52237	281122	65961	570490	75997	847330
01619	21019	52238	281123	65969	570500	76110	852810
01681	21020	52239	281121	66111	252210	76120	852820
01689	21090	52239	281129	66112	252220	76211	852721
01710	160300	52241	281210	66113	252230	76212	852729
01720	160100	52241	281290	66121	252310	76221	852711
01730	160220	52242	281310	66122	252321	76222	852719
01740	160231	52242	281390	66122	252329	76281	852731
01740	160239	52251	281700	66123	252330	76282	852732
01750	160241	52252	281910	66129	252390	76289	852739
01750	160242	52252	281990	66131	680100	76331	851910
01750	160249	52253	282010	66132	680300	76333	851921
01760	160250	52253	282090	66133	680210	76333	851929
01790	160290	52254	282110	66134	680221	76335	851931
02211	40110	52254	282120	66135	680222	76335	851939
02212	40120	52255	282200	66135	680223	76381	852110
02213	40130	52256	282300	66135	680229	76381	852190
02221	40210	52257	282410	66136	680291	76382	851940
02222	40221	52257	282420	66139	680292	76383	851991
02222	40229	52257	282490	66139	680293	76383	851999
02223	40291	52261	281410	66139	680299	76384	852010
02224	40299	52261	281420	66181	680710	76384	852020
02231	40310	52262	281511	66181	680790	76384	852031
02232	40390	52263	281512	66182	680800	76384	852039
02233	210500	52264	281520	66183	681110	76384	852090
02241	40410	52264	281530	66183	681120	76411	851710
02249	40490	52265	281610	66183	681130	76413	851720
02300	40500	52265	281620	66183	681190	76415	851730
02410	40620	52265	281630	66231	690100	76417	851740
02420	40630	52266	281830	66232	690210	76419	851781
02430	40640	52267	281810	66232	690220	76419	851782
02491	40610	52268	282510	66232	690290	76421	851810
02499	40690	52269	282520	66233	381600	76422	851821
02510	40700	52269	282530	66241	690410	76422	851822

02521	40811	52269	282540	66241	690490	76423	851829
02521	40891	52269	282550	66242	690510	76424	851830
02522	40819	52269	282560	66242	690590	76425	851840
02522	40899	52269	282570	66243	690600	76426	851850
02530	350210	52269	282580	66244	690710	76431	852510
03411	30110	52269	282590	66244	690790	76432	852520
03411	30191	52310	282611	66245	690810	76481	852790
03411	30192	52310	282612	66245	690890	76482	852530
03411	30193	52310	282619	66311	680410	76483	852610
03411	30199	52310	282620	66312	680421	76483	852691
03412	30211	52310	282630	66312	680422	76483	852692
03412	30212	52310	282690	66312	680423	76491	851790
03412	30219	52321	282710	66313	680430	76492	851890
03413	30221	52322	282720	66321	680510	76493	852910
03413	30222	52329	282731	66322	680520	76493	852990
03413	30223	52329	282732	66329	680530	76499	852210
03413	30229	52329	282733	66331	680911	76499	852290
03414	30231	52329	282734	66331	680919	77111	850421
03414	30232	52329	282735	66331	680990	77111	850422
03414	30233	52329	282736	66332	681011	77111	850423
03414	30239	52329	282737	66332	681019	77119	850431
03415	30240	52329	282738	66333	681091	77119	850432
03415	30261	52329	282739	66334	681020	77119	850433
03416	30250	52329	282741	66334	681099	77119	850434
03417	30264	52329	282749	66335	681410	77121	850440
03418	30262	52329	282751	66335	681490	77123	850410
03418	30263	52329	282759	66336	681510	77125	850450
03418	30265	52329	282760	66337	681520	77129	850490
03418	30266	52331	282810	66338	681591	77220	853400
03418	30269	52331	282890	66339	681599	77231	853310
03419	30270	52332	282911	66351	680610	77232	853321
03421	30310	52339	282919	66352	680620	77232	853329
03421	30321	52339	282990	66353	680690	77233	853331
03421	30322	52341	283010	66370	690310	77233	853339
03421	30329	52342	283020	66370	690320	77235	853340
03422	30331	52342	283030	66370	690390	77238	853390
03422	30332	52342	283090	66381	681210	77241	853510
03422	30333	52343	283110	66381	681220	77242	853521
03422	30339	52343	283190	66381	681230	77243	853529
03423	30341	52344	283210	66381	681240	77244	853530
03423	30342	52344	283220	66381	681250	77245	853540
03423	30343	52344	283230	66381	681260	77249	853590
03423	30349	52345	283311	66381	681270	77251	853610
03424	30350	52345	283319	66381	681290	77252	853620
03424	30371	52349	283321	66382	681310	77253	853630
03425	30360	52349	283322	66382	681390	77254	853641
03426	30374	52349	283323	66391	690911	77254	853649
03427	30378	52349	283324	66391	690919	77255	853650
03428	30372	52349	283325	66391	690990	77257	853661

03428	30373	52349	283326	66399	691410	77258	853669
03428	30375	52349	283327	66399	691490	77259	853690
03428	30376	52349	283329	66411	700100	77261	853710
03428	30377	52349	283330	66412	700210	77262	853720
03428	30379	52349	283340	66412	700220	77281	853810
03429	30380	52351	283410	66412	700231	77282	853890
03440	30420	52352	283421	66412	700232	77311	854411
03451	30410	52359	283422	66412	700239	77311	854419
03455	30490	52359	283429	66431	700410	77312	854420
03511	30551	52361	283510	66439	700490	77313	854430
03512	30530	52362	283521	66441	700510	77314	854441
03513	30559	52363	283522	66441	700521	77314	854449
03521	30562	52363	283523	66441	700529	77315	854451
03522	30563	52363	283524	66442	700530	77315	854459
03529	30561	52363	283525	66451	700311	77317	854460
03529	30569	52363	283526	66451	700319	77318	854470
03530	30541	52363	283529	66452	700320	77322	854610
03530	30542	52364	283531	66453	700330	77323	854620
03530	30549	52365	283539	66471	700711	77324	854690
03540	30520	52371	283610	66471	700719	77326	854710
03550	30510	52372	283620	66472	700721	77328	854720
03611	30613	52373	283630	66472	700729	77329	854790
03619	30611	52374	283640	66481	700910	77411	901811
03619	30612	52375	283670	66489	700991	77412	901819
03619	30614	52379	283650	66489	700992	77413	901820
03619	30619	52379	283660	66491	700600	77421	902211
03620	30621	52379	283691	66492	700800	77421	902219
03620	30622	52379	283692	66493	701110	77422	902221
03620	30623	52379	283693	66493	701120	77422	902229
03620	30624	52379	283699	66493	701190	77423	902230
03620	30629	52381	283711	66494	701510	77429	902290
03631	30710	52381	283719	66494	701590	77511	845011
03633	30741	52381	283720	66495	701931	77511	845012
03633	30751	52382	283800	66495	701932	77511	845019
03635	30721	52383	283911	66495	701939	77512	845121
03635	30731	52383	283919	66495	701990	77521	841810
03635	30791	52383	283920	66496	701690	77521	841821
03637	30749	52383	283990	66511	701090	77521	841822
03637	30759	52384	284011	66512	701200	77521	841829
03639	30729	52384	284019	66521	701310	77522	841830
03639	30739	52384	284020	66522	701321	77522	841840
03639	30799	52384	284030	66522	701329	77530	842211
03711	160411	52389	284210	66523	701331	77541	851010
03712	160412	52389	284290	66523	701332	77542	851020
03712	160413	52431	284110	66523	701339	77549	851090
03713	160414	52431	284120	66529	701391	77571	850910
03714	160415	52431	284130	66529	701399	77571	850920
03715	160416	52431	284140	66591	701710	77572	850940
03715	160419	52431	284150	66591	701720	77573	850930

03716	160420	52431	284160	66591	701790	77573	850980
03717	160430	52431	284170	66592	701010	77579	850990
03721	160510	52431	284180	66593	701810	77581	851610
03721	160520	52431	284190	66593	701820	77582	851621
03721	160530	52432	284310	66593	701890	77582	851629
03721	160540	52432	284321	66594	701610	77583	851631
03722	160590	52432	284329	66595	701400	77583	851632
04110	100110	52432	284330	66599	702000	77583	851633
04120	100190	52432	284390	66611	691110	77584	851640
04210	100610	52491	284700	66612	691190	77585	630110
04220	100620	52492	284810	66613	691200	77586	851650
04231	100630	52492	284890	66621	691310	77586	851660
04232	100640	52493	284910	66629	691390	77587	851671
04300	100300	52494	284920	66711	710110	77587	851672
04410	100510	52494	284990	66712	710121	77587	851679
04490	100590	52495	285000	66713	710122	77588	851680
04510	100200	52499	285100	66721	710210	77589	851690
04520	100400	52511	284410	66722	710231	77611	854011
04530	100700	52513	284420	66729	710239	77612	854012
04591	100820	52515	284430	66731	710310	77621	854020
04592	100810	52517	284450	66739	710391	77623	854030
04593	100830	52519	284440	66739	710399	77625	854041
04599	100890	52591	284510	66741	710410	77625	854042
04610	110100	52591	284590	66742	710420	77625	854049
04620	110311	52595	284610	66749	710490	77627	854081
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04711	110220	53111	320411	67122	720120	77629	854091
04719	110210	53112	320412	67123	720130	77629	854099
04719	110230	53113	320413	67123	720140	77631	854110
04719	110290	53114	320414	67131	720510	77632	854121
04721	110313	53115	320415	67132	720521	77633	854129
04722	110312	53116	320416	67132	720529	77635	854130
04722	110314	53117	320417	67133	720310	77637	854140
04722	110319	53119	320419	67133	720390	77639	854150
04729	110329	53121	320420	67141	720211	77641	854211
04811	190410	53121	320490	67149	720219	77643	854219
04812	190490	53122	320500	67151	720221	77645	854220
04813	110411	53221	320110	67151	720229	77649	854280
04813	110412	53221	320120	67152	720230	77681	854160
04813	110419	53221	320130	67153	720241	77688	854190
04814	110421	53221	320190	67153	720249	77689	854290
04814	110422	53222	320300	67154	720250	77811	850611
04814	110423	53231	320210	67155	720260	77811	850612
04814	110429	53232	320290	67159	720270	77811	850613
04815	110430	53311	320610	67159	720280	77811	850619
04820	110710	53312	320620	67159	720291	77811	850620
04820	110720	53313	320630	67159	720292	77812	850710
04830	190211	53314	320641	67159	720293	77812	850720
04830	190219	53315	320642	67159	720299	77812	850730

04841	190510	53316	320643	67241	720610	77812	850740
04841	190540	53317	320649	67245	720690	77812	850780
04842	190520	53318	320650	67247	721810	77817	850690
04842	190530	53321	321511	67249	722410	77819	850790
04849	190590	53329	321519	67261	720711	77821	853921
04850	190120	53341	320910	67262	720712	77821	853922
05410	70110	53341	320990	67269	720719	77821	853929
05410	70190	53342	320810	67270	720720	77822	853931
05421	71310	53342	320820	67281	721890	77822	853939
05422	71320	53342	320890	67282	722490	77823	853910
05423	71331	53343	321000	67311	720811	77824	853940
05423	71332	53344	321210	67311	720812	77829	853990
05423	71333	53344	321290	67312	720813	77831	851110
05423	71339	53351	320710	67312	720814	77831	851120
05424	71340	53351	320720	67313	720831	77831	851130
05425	71350	53351	320730	67314	720832	77831	851140
05429	71390	53351	320740	67314	720833	77831	851150
05440	70200	53352	321310	67315	720834	77831	851180
05451	70310	53352	321390	67315	720835	77833	851190
05452	70320	53353	321100	67316	721111	77834	851210
05452	70390	53354	321410	67317	721112	77834	851220
05453	70410	53354	321490	67319	721119	77834	851230
05453	70420	53355	381400	67321	720821	77834	851240
05453	70490	54111	293610	67321	720822	77835	851290
05454	70511	54112	293621	67322	720823	77841	850810
05454	70519	54113	293622	67322	720824	77843	850820
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51381	291714	65432	511230	74155	841583	89822	920420
51382	291735	65433	511190	74159	841590	89823	920510
51383	291732	65434	511290	74171	840510	89823	920590
51384	291737	65435	580110	74172	840590	89824	920600
51385	291720	65441	530911	74173	841940	89825	920710
51389	291711	65441	530919	74174	841950	89826	920790
51389	291712	65442	530921	74175	841960	89829	920810
51389	291713	65442	530929	74181	841911	89829	920890
51389	291719	65450	531010	74182	841919	89841	852311
51389	291731	65450	531090	74183	841920	89843	852312
51389	291733	65460	701920	74184	841931	89845	852313
51389	291734	65491	580900	74185	841932	89851	852320
51389	291736	65492	511300	74186	841939	89859	852390
51389	291739	65493	531100	74187	841981	89861	852421
51391	291811	65494	580390	74189	841989	89865	852422
51391	291812	65495	580190	74190	841990	89867	852423
51391	291813	65496	580220	74211	841311	89871	852410
51391	291814	65497	580230	74219	841319	89879	852490
51391	291815	65511	600110	74220	841330	89890	920910
51392	291816	65512	600121	74230	841340	89890	920920
51392	291817	65512	600122	74240	841350	89890	920930
51392	291819	65512	600129	74250	841360	89890	920991
51393	291821	65519	600191	74260	841370	89890	920992
51393	291822	65519	600192	74271	841320	89890	920993
51393	291823	65519	600199	74271	841381	89890	920994
51394	291829	65521	600210	74275	841382	89890	920999
51395	291830	65521	600220	74291	841391	89911	960110
51396	291890	65522	600230	74295	841392	89911	960190
51451	292111	65523	600241	74311	841410	89919	960200
51451	292112	65523	600242	74313	841420	89921	670210
51451	292119	65523	600243	74315	841430	89929	670290
51452	292121	65523	600249	74317	841440	89931	340600
51452	292122	65529	600291	74319	841480	89932	360500
51452	292129	65529	600292	74341	841451	89933	961310

51453	292130	65529	600293	74343	841459	89933	961320
51454	292141	65529	600299	74345	841460	89933	961330
51454	292142	65611	580610	74351	842111	89933	961380
51454	292143	65612	580620	74355	842112	89934	360610
51454	292144	65613	580631	74359	842119	89935	961390
51454	292145	65613	580632	74361	842121	89936	961410
51454	292149	65613	580639	74362	842122	89937	961420
51455	292151	65614	580640	74363	842123	89937	961490
51455	292159	65621	580710	74364	842131	89939	360690
51461	292211	65629	580790	74367	842129	89941	660110
51461	292212	65631	560600	74369	842139	89941	660191
51461	292213	65632	580810	74380	841490	89941	660199
51461	292219	65632	580890	74391	842191	89942	660200
51462	292221	65641	580410	74395	842199	89949	660310
51462	292222	65642	580421	74411	842710	89949	660320
51462	292229	65642	580429	74412	842720	89949	660390
51463	292230	65643	580430	74413	842790	89961	902140
51464	292241	65651	581010	74414	870911	89963	902111
51464	292242	65659	581091	74415	870919	89963	902119
51465	292249	65659	581092	74419	870990	89965	902121
51467	292250	65659	581099	74421	842511	89965	902129
51471	292410	65711	560210	74421	842519	89966	902130
51473	292421	65712	560221	74423	842520	89967	902150
51479	292429	65712	560229	74425	842531	89969	902190
51481	292310	65719	560290	74425	842539	89971	460210
51481	292320	65720	560300	74431	842611	89971	460290
51481	292390	65731	590110	74432	842612	89972	960310
51482	292511	65731	590190	74433	842619	89972	960321
51482	292519	65732	590310	74434	842620	89972	960329
51482	292520	65732	590320	74435	842630	89972	960330
51483	292610	65732	590390	74437	842641	89972	960340
51484	292620	65733	590610	74437	842649	89972	960350
51484	292690	65733	590691	74439	842691	89972	960390
51485	292700	65733	590699	74439	842699	89973	460110
51486	292800	65734	590700	74441	842541	89974	460120
51489	292910	65735	590500	74443	842542	89979	460191
51489	292990	65740	581100	74449	842549	89979	460199
51541	293010	65751	560710	74471	842820	89981	960400
51542	293020	65751	560721	74472	842831	89982	961620
51543	293030	65751	560729	74473	842832	89983	960610
51544	293040	65751	560730	74474	842833	89983	960621
51549	293090	65751	560741	74479	842839	89983	960622
51550	293100	65751	560749	74481	842810	89983	960629
51561	293371	65751	560750	74485	842840	89984	960630
51561	293379	65751	560790	74489	842850	89985	960711
51562	293221	65752	560811	74489	842860	89985	960719
51563	293229	65752	560819	74489	842890	89986	960720
51569	293211	65752	560890	74491	843110	89987	961610
51569	293212	65759	560900	74492	843120	89988	961800

51569	293213	65761	650100	74493	843131	89989	961511
51569	293219	65762	650200	74494	843139	89989	961519
51569	293290	65771	560110	74511	846711	89989	961590
51571	293311	65771	560121	74511	846719	89991	420610
51571	293319	65771	560122	74512	846781	89991	420690
51572	293321	65771	560129	74512	846789	89992	670100
51573	293329	65771	560130	74519	846791	89994	670300
51574	293331	65772	590800	74519	846792	89995	670411
51574	293339	65773	591110	74519	846799	89995	670419
51575	293340	65773	591120	74521	842219	89995	670420
51576	293351	65773	591131	74523	842220	89995	670490
51576	293359	65773	591132	74527	842230	89996	880400
51576	293361	65773	591140	74527	842240	89997	961700
51576	293369	65773	591190	74529	842290	93100	980100
51577	293390	65781	560410	74531	842320	93100	980200
51578	293430	65785	560420	74531	842330	93100	980300
51579	293410	65789	560490	74531	842381	93100	980400
51579	293420	65791	590900	74531	842382	93100	980500
51579	293490	65792	591000	74531	842389	93100	980600
51580	293500	65793	590210	74532	842310	93100	980700
51612	291100	65793	590220	74539	842390	93100	980900
51613	291010	65793	590290	74561	842410	93100	999910
51614	291020	65811	630510	74562	842420	93100	999921
51615	291030	65812	630520	74563	842430	93100	999940
51615	291090	65813	630531	74564	842481	93100	999941
51616	290911	65813	630539	74565	842489	96100	711810
51616	290919	65819	630590	74568	842490	97101	710811
51616	290920	65821	630611	74591	842010	97101	710812
51616	290930	65821	630612	74593	842091	97101	710813
51617	290941	65821	630619	74593	842099	97102	710900
51617	290942	65822	630621	74595	847611	97103	711210
51617	290943	65822	630622	74595	847619	98888	988888
51617	290944	65822	630629	74597	847690	98888	998888
51617	290949	65823	630631	74610	848210	98888	999999
51617	290950	65823	630639	74620	848220	99999	710820
51617	290960	65824	630641	74630	848230	99999	711890
51621	291211	65824	630649	74640	848240	99999	990110
51621	291212	65829	630691	74650	848250	99999	990120
51621	291213	65829	630699	74680	848280	99999	990210
51621	291219	65831	630120	74691	848291	99999	990220
51622	291221	65832	630130	74699	848299	99999	990300
						99999	999930
						99999	999931

Harmonised System 6-digit to SALTER commodities.

SALTER	HS	SALTER	HS
1 Paddy rice	100610	24 Chemicals, rubber & plastic	310210
1 Paddy rice	100620	24 Chemicals, rubber & plastic	310221
		24 Chemicals, rubber & plastic	310229
2 Wheat	100110	24 Chemicals, rubber & plastic	310230
2 Wheat	100190	24 Chemicals, rubber & plastic	310240
		24 Chemicals, rubber & plastic	310250
3 Other grains	100200	24 Chemicals, rubber & plastic	310260
3 Other grains	100300	24 Chemicals, rubber & plastic	310270
3 Other grains	100400	24 Chemicals, rubber & plastic	310280
3 Other grains	100510	24 Chemicals, rubber & plastic	310290
3 Other grains	100590	24 Chemicals, rubber & plastic	310310
3 Other grains	100700	24 Chemicals, rubber & plastic	310320
3 Other grains	100810	24 Chemicals, rubber & plastic	310390
3 Other grains	100820	24 Chemicals, rubber & plastic	310420
3 Other grains	100830	24 Chemicals, rubber & plastic	310430
3 Other grains	100890	24 Chemicals, rubber & plastic	310490
		24 Chemicals, rubber & plastic	310510
4 Non-grain crops	40900	24 Chemicals, rubber & plastic	310520
4 Non-grain crops	60110	24 Chemicals, rubber & plastic	310530
4 Non-grain crops	60120	24 Chemicals, rubber & plastic	310540
4 Non-grain crops	60210	24 Chemicals, rubber & plastic	310551
4 Non-grain crops	60220	24 Chemicals, rubber & plastic	310559
4 Non-grain crops	60230	24 Chemicals, rubber & plastic	310560
4 Non-grain crops	60240	24 Chemicals, rubber & plastic	310590
4 Non-grain crops	60291	24 Chemicals, rubber & plastic	320110
4 Non-grain crops	60299	24 Chemicals, rubber & plastic	320120
4 Non-grain crops	60310	24 Chemicals, rubber & plastic	320130
4 Non-grain crops	60390	24 Chemicals, rubber & plastic	320190
4 Non-grain crops	60410	24 Chemicals, rubber & plastic	320210
4 Non-grain crops	60491	24 Chemicals, rubber & plastic	320290
4 Non-grain crops	60499	24 Chemicals, rubber & plastic	320300
4 Non-grain crops	70110	24 Chemicals, rubber & plastic	320411
4 Non-grain crops	70190	24 Chemicals, rubber & plastic	320412
4 Non-grain crops	70200	24 Chemicals, rubber & plastic	320413
4 Non-grain crops	70310	24 Chemicals, rubber & plastic	320414
4 Non-grain crops	70320	24 Chemicals, rubber & plastic	320415
4 Non-grain crops	70390	24 Chemicals, rubber & plastic	320416
4 Non-grain crops	70410	24 Chemicals, rubber & plastic	320417
4 Non-grain crops	70420	24 Chemicals, rubber & plastic	320419
4 Non-grain crops	70490	24 Chemicals, rubber & plastic	320420
4 Non-grain crops	70511	24 Chemicals, rubber & plastic	320490
4 Non-grain crops	70519	24 Chemicals, rubber & plastic	320500
4 Non-grain crops	70521	24 Chemicals, rubber & plastic	320610
4 Non-grain crops	70529	24 Chemicals, rubber & plastic	320620
4 Non-grain crops	70610	24 Chemicals, rubber & plastic	320630
4 Non-grain crops	70690	24 Chemicals, rubber & plastic	320641

4 Non-grain crops	70700	24 Chemicals, rubber & plastic	320642
4 Non-grain crops	70810	24 Chemicals, rubber & plastic	320643
4 Non-grain crops	70820	24 Chemicals, rubber & plastic	320649
4 Non-grain crops	70890	24 Chemicals, rubber & plastic	320650
4 Non-grain crops	70910	24 Chemicals, rubber & plastic	320710
4 Non-grain crops	70920	24 Chemicals, rubber & plastic	320720
4 Non-grain crops	70930	24 Chemicals, rubber & plastic	320730
4 Non-grain crops	70940	24 Chemicals, rubber & plastic	320740
4 Non-grain crops	70951	24 Chemicals, rubber & plastic	320810
4 Non-grain crops	70952	24 Chemicals, rubber & plastic	320820
4 Non-grain crops	70960	24 Chemicals, rubber & plastic	320890
4 Non-grain crops	70970	24 Chemicals, rubber & plastic	320910
4 Non-grain crops	70990	24 Chemicals, rubber & plastic	320990
4 Non-grain crops	71310	24 Chemicals, rubber & plastic	321000
4 Non-grain crops	71320	24 Chemicals, rubber & plastic	321100
4 Non-grain crops	71331	24 Chemicals, rubber & plastic	321210
4 Non-grain crops	71332	24 Chemicals, rubber & plastic	321290
4 Non-grain crops	71333	24 Chemicals, rubber & plastic	321310
4 Non-grain crops	71339	24 Chemicals, rubber & plastic	321390
4 Non-grain crops	71340	24 Chemicals, rubber & plastic	321410
4 Non-grain crops	71350	24 Chemicals, rubber & plastic	321490
4 Non-grain crops	71390	24 Chemicals, rubber & plastic	321511
4 Non-grain crops	71410	24 Chemicals, rubber & plastic	321519
4 Non-grain crops	71420	24 Chemicals, rubber & plastic	321590
4 Non-grain crops	71490	24 Chemicals, rubber & plastic	330111
4 Non-grain crops	80110	24 Chemicals, rubber & plastic	330112
4 Non-grain crops	80120	24 Chemicals, rubber & plastic	330113
4 Non-grain crops	80130	24 Chemicals, rubber & plastic	330114
4 Non-grain crops	80211	24 Chemicals, rubber & plastic	330119
4 Non-grain crops	80212	24 Chemicals, rubber & plastic	330121
4 Non-grain crops	80221	24 Chemicals, rubber & plastic	330122
4 Non-grain crops	80222	24 Chemicals, rubber & plastic	330123
4 Non-grain crops	80231	24 Chemicals, rubber & plastic	330124
4 Non-grain crops	80232	24 Chemicals, rubber & plastic	330125
4 Non-grain crops	80240	24 Chemicals, rubber & plastic	330126
4 Non-grain crops	80250	24 Chemicals, rubber & plastic	330129
4 Non-grain crops	80290	24 Chemicals, rubber & plastic	330130
4 Non-grain crops	80300	24 Chemicals, rubber & plastic	330190
4 Non-grain crops	80410	24 Chemicals, rubber & plastic	330210
4 Non-grain crops	80420	24 Chemicals, rubber & plastic	330290
4 Non-grain crops	80430	24 Chemicals, rubber & plastic	330300
4 Non-grain crops	80440	24 Chemicals, rubber & plastic	330410
4 Non-grain crops	80450	24 Chemicals, rubber & plastic	330420
4 Non-grain crops	80510	24 Chemicals, rubber & plastic	330430
4 Non-grain crops	80520	24 Chemicals, rubber & plastic	330491
4 Non-grain crops	80530	24 Chemicals, rubber & plastic	330499
4 Non-grain crops	80540	24 Chemicals, rubber & plastic	330510
4 Non-grain crops	80590	24 Chemicals, rubber & plastic	330520
4 Non-grain crops	80610	24 Chemicals, rubber & plastic	330530

4 Non-grain crops	80620	24 Chemicals, rubber & plastic	330590
4 Non-grain crops	80710	24 Chemicals, rubber & plastic	330610
4 Non-grain crops	80720	24 Chemicals, rubber & plastic	330690
4 Non-grain crops	80810	24 Chemicals, rubber & plastic	330710
4 Non-grain crops	80820	24 Chemicals, rubber & plastic	330720
4 Non-grain crops	80910	24 Chemicals, rubber & plastic	330730
4 Non-grain crops	80920	24 Chemicals, rubber & plastic	330741
4 Non-grain crops	80930	24 Chemicals, rubber & plastic	330749
4 Non-grain crops	80940	24 Chemicals, rubber & plastic	330790
4 Non-grain crops	81010	24 Chemicals, rubber & plastic	340111
4 Non-grain crops	81020	24 Chemicals, rubber & plastic	340119
4 Non-grain crops	81030	24 Chemicals, rubber & plastic	340120
4 Non-grain crops	81040	24 Chemicals, rubber & plastic	340211
4 Non-grain crops	81090	24 Chemicals, rubber & plastic	340212
4 Non-grain crops	81310	24 Chemicals, rubber & plastic	340213
4 Non-grain crops	81320	24 Chemicals, rubber & plastic	340219
4 Non-grain crops	81330	24 Chemicals, rubber & plastic	340220
4 Non-grain crops	81340	24 Chemicals, rubber & plastic	340290
4 Non-grain crops	81350	24 Chemicals, rubber & plastic	340311
4 Non-grain crops	81400	24 Chemicals, rubber & plastic	340319
4 Non-grain crops	90111	24 Chemicals, rubber & plastic	340391
4 Non-grain crops	90112	24 Chemicals, rubber & plastic	340399
4 Non-grain crops	90210	24 Chemicals, rubber & plastic	340410
4 Non-grain crops	90220	24 Chemicals, rubber & plastic	340420
4 Non-grain crops	90230	24 Chemicals, rubber & plastic	340490
4 Non-grain crops	90240	24 Chemicals, rubber & plastic	340510
4 Non-grain crops	90300	24 Chemicals, rubber & plastic	340520
4 Non-grain crops	90411	24 Chemicals, rubber & plastic	340530
4 Non-grain crops	90412	24 Chemicals, rubber & plastic	340540
4 Non-grain crops	90420	24 Chemicals, rubber & plastic	340590
4 Non-grain crops	90500	24 Chemicals, rubber & plastic	340600
4 Non-grain crops	90610	24 Chemicals, rubber & plastic	340700
4 Non-grain crops	90620	24 Chemicals, rubber & plastic	350110
4 Non-grain crops	90700	24 Chemicals, rubber & plastic	350190
4 Non-grain crops	90810	24 Chemicals, rubber & plastic	350210
4 Non-grain crops	90820	24 Chemicals, rubber & plastic	350290
4 Non-grain crops	90830	24 Chemicals, rubber & plastic	350300
4 Non-grain crops	90910	24 Chemicals, rubber & plastic	350400
4 Non-grain crops	90920	24 Chemicals, rubber & plastic	350510
4 Non-grain crops	90930	24 Chemicals, rubber & plastic	350520
4 Non-grain crops	90940	24 Chemicals, rubber & plastic	350610
4 Non-grain crops	90950	24 Chemicals, rubber & plastic	350691
4 Non-grain crops	91010	24 Chemicals, rubber & plastic	350699
4 Non-grain crops	91020	24 Chemicals, rubber & plastic	350710
4 Non-grain crops	91030	24 Chemicals, rubber & plastic	350790
4 Non-grain crops	91040	24 Chemicals, rubber & plastic	360100
4 Non-grain crops	91050	24 Chemicals, rubber & plastic	360200
4 Non-grain crops	91091	24 Chemicals, rubber & plastic	360300
4 Non-grain crops	91099	24 Chemicals, rubber & plastic	360410

4 Non-grain crops	140190	24 Chemicals, rubber & plastic	382000
4 Non-grain crops	140210	24 Chemicals, rubber & plastic	382100
4 Non-grain crops	140291	24 Chemicals, rubber & plastic	382200
4 Non-grain crops	140299	24 Chemicals, rubber & plastic	382310
4 Non-grain crops	140310	24 Chemicals, rubber & plastic	382320
4 Non-grain crops	140390	24 Chemicals, rubber & plastic	382330
4 Non-grain crops	140410	24 Chemicals, rubber & plastic	382360
4 Non-grain crops	140490	24 Chemicals, rubber & plastic	382390
4 Non-grain crops	152110	24 Chemicals, rubber & plastic	390110
4 Non-grain crops	152190	24 Chemicals, rubber & plastic	390120
4 Non-grain crops	180100	24 Chemicals, rubber & plastic	390130
4 Non-grain crops	240110	24 Chemicals, rubber & plastic	390190
4 Non-grain crops	400110	24 Chemicals, rubber & plastic	390210
4 Non-grain crops	400121	24 Chemicals, rubber & plastic	390220
4 Non-grain crops	400122	24 Chemicals, rubber & plastic	390230
4 Non-grain crops	400129	24 Chemicals, rubber & plastic	390290
4 Non-grain crops	400130	24 Chemicals, rubber & plastic	390311
4 Non-grain crops	520100	24 Chemicals, rubber & plastic	390319
4 Non-grain crops	520299	24 Chemicals, rubber & plastic	390320
4 Non-grain crops	530110	24 Chemicals, rubber & plastic	390330
4 Non-grain crops	530121	24 Chemicals, rubber & plastic	390390
4 Non-grain crops	530129	24 Chemicals, rubber & plastic	390410
4 Non-grain crops	530130	24 Chemicals, rubber & plastic	390421
4 Non-grain crops	530210	24 Chemicals, rubber & plastic	390422
4 Non-grain crops	530290	24 Chemicals, rubber & plastic	390430
4 Non-grain crops	530310	24 Chemicals, rubber & plastic	390440
4 Non-grain crops	530390	24 Chemicals, rubber & plastic	390450
4 Non-grain crops	530410	24 Chemicals, rubber & plastic	390461
4 Non-grain crops	530490	24 Chemicals, rubber & plastic	390469
4 Non-grain crops	530511	24 Chemicals, rubber & plastic	390490
4 Non-grain crops	530519	24 Chemicals, rubber & plastic	390511
4 Non-grain crops	530521	24 Chemicals, rubber & plastic	390519
4 Non-grain crops	530529	24 Chemicals, rubber & plastic	390520
4 Non-grain crops	530591	24 Chemicals, rubber & plastic	390590
4 Non-grain crops	530599	24 Chemicals, rubber & plastic	390610
		24 Chemicals, rubber & plastic	390690
5 Wool	510111	24 Chemicals, rubber & plastic	390710
5 Wool	510119	24 Chemicals, rubber & plastic	390720
5 Wool	510121	24 Chemicals, rubber & plastic	390730
5 Wool	510129	24 Chemicals, rubber & plastic	390740
		24 Chemicals, rubber & plastic	390750
6 Livestock & products	10111	24 Chemicals, rubber & plastic	390760
6 Livestock & products	10119	24 Chemicals, rubber & plastic	390791
6 Livestock & products	10120	24 Chemicals, rubber & plastic	390799
6 Livestock & products	10210	24 Chemicals, rubber & plastic	390810
6 Livestock & products	10290	24 Chemicals, rubber & plastic	390890
6 Livestock & products	10310	24 Chemicals, rubber & plastic	390910
6 Livestock & products	10391	24 Chemicals, rubber & plastic	390920
6 Livestock & products	10392	24 Chemicals, rubber & plastic	390930

7 Forestry	440320	24 Chemicals, rubber & plastic	392079
7 Forestry	440331	24 Chemicals, rubber & plastic	392091
7 Forestry	440332	24 Chemicals, rubber & plastic	392092
7 Forestry	440333	24 Chemicals, rubber & plastic	392093
7 Forestry	440334	24 Chemicals, rubber & plastic	392094
7 Forestry	440335	24 Chemicals, rubber & plastic	392099
7 Forestry	440391	24 Chemicals, rubber & plastic	392111
7 Forestry	440392	24 Chemicals, rubber & plastic	392112
7 Forestry	440399	24 Chemicals, rubber & plastic	392113
7 Forestry	450110	24 Chemicals, rubber & plastic	392114
7 Forestry	450190	24 Chemicals, rubber & plastic	392119
7 Forestry	450200	24 Chemicals, rubber & plastic	392190
		24 Chemicals, rubber & plastic	392210
8 Fishing	30110	24 Chemicals, rubber & plastic	392220
8 Fishing	30191	24 Chemicals, rubber & plastic	392290
8 Fishing	30192	24 Chemicals, rubber & plastic	392310
8 Fishing	30193	24 Chemicals, rubber & plastic	392321
8 Fishing	30199	24 Chemicals, rubber & plastic	392329
8 Fishing	30211	24 Chemicals, rubber & plastic	392330
8 Fishing	30212	24 Chemicals, rubber & plastic	392340
8 Fishing	30219	24 Chemicals, rubber & plastic	392350
8 Fishing	30221	24 Chemicals, rubber & plastic	392390
8 Fishing	30222	24 Chemicals, rubber & plastic	392410
8 Fishing	30223	24 Chemicals, rubber & plastic	392490
8 Fishing	30229	24 Chemicals, rubber & plastic	392510
8 Fishing	30231	24 Chemicals, rubber & plastic	392520
8 Fishing	30232	24 Chemicals, rubber & plastic	392530
8 Fishing	30233	24 Chemicals, rubber & plastic	392590
8 Fishing	30239	24 Chemicals, rubber & plastic	392610
8 Fishing	30240	24 Chemicals, rubber & plastic	392630
8 Fishing	30250	24 Chemicals, rubber & plastic	392640
8 Fishing	30261	24 Chemicals, rubber & plastic	392690
8 Fishing	30262	24 Chemicals, rubber & plastic	400211
8 Fishing	30263	24 Chemicals, rubber & plastic	400219
8 Fishing	30264	24 Chemicals, rubber & plastic	400220
8 Fishing	30265	24 Chemicals, rubber & plastic	400231
8 Fishing	30266	24 Chemicals, rubber & plastic	400239
8 Fishing	30269	24 Chemicals, rubber & plastic	400241
8 Fishing	30270	24 Chemicals, rubber & plastic	400249
8 Fishing	30621	24 Chemicals, rubber & plastic	400251
8 Fishing	30622	24 Chemicals, rubber & plastic	400259
8 Fishing	30623	24 Chemicals, rubber & plastic	400260
8 Fishing	30624	24 Chemicals, rubber & plastic	400270
8 Fishing	30629	24 Chemicals, rubber & plastic	400280
8 Fishing	30710	24 Chemicals, rubber & plastic	400291
8 Fishing	30721	24 Chemicals, rubber & plastic	400299
8 Fishing	30731	24 Chemicals, rubber & plastic	400300
8 Fishing	30741	24 Chemicals, rubber & plastic	400400
8 Fishing	30751	24 Chemicals, rubber & plastic	400510

8 Fishing	30791	24 Chemicals, rubber & plastic	400520
8 Fishing	50800	24 Chemicals, rubber & plastic	400591
8 Fishing	50900	24 Chemicals, rubber & plastic	400599
8 Fishing	51191	24 Chemicals, rubber & plastic	400610
		24 Chemicals, rubber & plastic	400690
9 Coal	270111	24 Chemicals, rubber & plastic	400700
9 Coal	270112	24 Chemicals, rubber & plastic	400811
9 Coal	270119	24 Chemicals, rubber & plastic	400819
9 Coal	270120	24 Chemicals, rubber & plastic	400821
9 Coal	270210	24 Chemicals, rubber & plastic	400829
9 Coal	270220	24 Chemicals, rubber & plastic	400910
9 Coal	270300	24 Chemicals, rubber & plastic	400920
9 Coal	270400	24 Chemicals, rubber & plastic	400930
		24 Chemicals, rubber & plastic	400940
10 Oil	270900	24 Chemicals, rubber & plastic	400950
10 Oil	271410	24 Chemicals, rubber & plastic	401010
		24 Chemicals, rubber & plastic	401091
11 Gas	270500	24 Chemicals, rubber & plastic	401099
11 Gas	271111	24 Chemicals, rubber & plastic	401110
11 Gas	271112	24 Chemicals, rubber & plastic	401120
11 Gas	271113	24 Chemicals, rubber & plastic	401130
11 Gas	271114	24 Chemicals, rubber & plastic	401140
11 Gas	271119	24 Chemicals, rubber & plastic	401150
11 Gas	271121	24 Chemicals, rubber & plastic	401191
11 Gas	271129	24 Chemicals, rubber & plastic	401199
		24 Chemicals, rubber & plastic	401210
12 Other minerals	250100	24 Chemicals, rubber & plastic	401220
12 Other minerals	250200	24 Chemicals, rubber & plastic	401290
12 Other minerals	250310	24 Chemicals, rubber & plastic	401310
12 Other minerals	250390	24 Chemicals, rubber & plastic	401320
12 Other minerals	250410	24 Chemicals, rubber & plastic	401390
12 Other minerals	250490	24 Chemicals, rubber & plastic	401410
12 Other minerals	250510	24 Chemicals, rubber & plastic	401490
12 Other minerals	250590	24 Chemicals, rubber & plastic	401511
12 Other minerals	250610	24 Chemicals, rubber & plastic	401519
12 Other minerals	250621	24 Chemicals, rubber & plastic	401610
12 Other minerals	250629	24 Chemicals, rubber & plastic	401691
12 Other minerals	250700	24 Chemicals, rubber & plastic	401692
12 Other minerals	250810	24 Chemicals, rubber & plastic	401693
12 Other minerals	250820	24 Chemicals, rubber & plastic	401694
12 Other minerals	250830	24 Chemicals, rubber & plastic	401695
12 Other minerals	250840	24 Chemicals, rubber & plastic	401699
12 Other minerals	250850	24 Chemicals, rubber & plastic	401700
12 Other minerals	250860	24 Chemicals, rubber & plastic	481500
12 Other minerals	250870	24 Chemicals, rubber & plastic	550110
12 Other minerals	250900	24 Chemicals, rubber & plastic	550120
12 Other minerals	251010	24 Chemicals, rubber & plastic	550130
12 Other minerals	251020	24 Chemicals, rubber & plastic	550190
12 Other minerals	251110	24 Chemicals, rubber & plastic	550200

12 Other minerals	251120	24 Chemicals, rubber & plastic	550310
12 Other minerals	251200	24 Chemicals, rubber & plastic	550320
12 Other minerals	251311	24 Chemicals, rubber & plastic	550330
12 Other minerals	251319	24 Chemicals, rubber & plastic	550340
12 Other minerals	251321	24 Chemicals, rubber & plastic	550390
12 Other minerals	251329	24 Chemicals, rubber & plastic	550410
12 Other minerals	251400	24 Chemicals, rubber & plastic	550490
12 Other minerals	251511	24 Chemicals, rubber & plastic	550510
12 Other minerals	251512	24 Chemicals, rubber & plastic	550520
12 Other minerals	251520	24 Chemicals, rubber & plastic	550610
12 Other minerals	251611	24 Chemicals, rubber & plastic	550620
12 Other minerals	251612	24 Chemicals, rubber & plastic	550630
12 Other minerals	251621	24 Chemicals, rubber & plastic	550690
12 Other minerals	251622	24 Chemicals, rubber & plastic	550700
12 Other minerals	251690	24 Chemicals, rubber & plastic	640110
12 Other minerals	251710	24 Chemicals, rubber & plastic	640191
12 Other minerals	251720	24 Chemicals, rubber & plastic	640192
12 Other minerals	251730	24 Chemicals, rubber & plastic	640199
12 Other minerals	251741	24 Chemicals, rubber & plastic	640211
12 Other minerals	251749	24 Chemicals, rubber & plastic	640219
12 Other minerals	251810	24 Chemicals, rubber & plastic	640220
12 Other minerals	251820	24 Chemicals, rubber & plastic	640230
12 Other minerals	251830	24 Chemicals, rubber & plastic	640291
12 Other minerals	251910	24 Chemicals, rubber & plastic	640299
12 Other minerals	252010	24 Chemicals, rubber & plastic	640311
12 Other minerals	252020	24 Chemicals, rubber & plastic	640319
12 Other minerals	252100	24 Chemicals, rubber & plastic	640340
12 Other minerals	252400	24 Chemicals, rubber & plastic	640411
12 Other minerals	252510	24 Chemicals, rubber & plastic	640620
12 Other minerals	252520	24 Chemicals, rubber & plastic	711510
12 Other minerals	252530	24 Chemicals, rubber & plastic	890710
12 Other minerals	252610	24 Chemicals, rubber & plastic	940370
12 Other minerals	252620	24 Chemicals, rubber & plastic	960621
12 Other minerals	252700		
12 Other minerals	252810	25 Non-metallic mineral products	252210
12 Other minerals	252890	25 Non-metallic mineral products	252220
12 Other minerals	252910	25 Non-metallic mineral products	252230
12 Other minerals	252921	25 Non-metallic mineral products	252310
12 Other minerals	252922	25 Non-metallic mineral products	252321
12 Other minerals	252930	25 Non-metallic mineral products	252329
12 Other minerals	253010	25 Non-metallic mineral products	252330
12 Other minerals	253020	25 Non-metallic mineral products	252390
12 Other minerals	253030	25 Non-metallic mineral products	381600
12 Other minerals	253040	25 Non-metallic mineral products	382340
12 Other minerals	253090	25 Non-metallic mineral products	382350
12 Other minerals	260111	25 Non-metallic mineral products	680100
12 Other minerals	260112	25 Non-metallic mineral products	680210
12 Other minerals	260200	25 Non-metallic mineral products	680221
12 Other minerals	260300	25 Non-metallic mineral products	680222

12 Other minerals	260400	25 Non-metallic mineral products	680223
12 Other minerals	260500	25 Non-metallic mineral products	680229
12 Other minerals	260600	25 Non-metallic mineral products	680291
12 Other minerals	260700	25 Non-metallic mineral products	680292
12 Other minerals	260800	25 Non-metallic mineral products	680293
12 Other minerals	260900	25 Non-metallic mineral products	680299
12 Other minerals	261000	25 Non-metallic mineral products	680300
12 Other minerals	261100	25 Non-metallic mineral products	680410
12 Other minerals	261210	25 Non-metallic mineral products	680421
12 Other minerals	261220	25 Non-metallic mineral products	680422
12 Other minerals	261310	25 Non-metallic mineral products	680423
12 Other minerals	261390	25 Non-metallic mineral products	680430
12 Other minerals	261400	25 Non-metallic mineral products	680510
12 Other minerals	261510	25 Non-metallic mineral products	680520
12 Other minerals	261590	25 Non-metallic mineral products	680530
12 Other minerals	261610	25 Non-metallic mineral products	680610
12 Other minerals	261690	25 Non-metallic mineral products	680620
12 Other minerals	261710	25 Non-metallic mineral products	680690
12 Other minerals	261790	25 Non-metallic mineral products	680790
12 Other minerals	262011	25 Non-metallic mineral products	680800
12 Other minerals	262019	25 Non-metallic mineral products	680911
12 Other minerals	262020	25 Non-metallic mineral products	680919
12 Other minerals	262030	25 Non-metallic mineral products	680990
12 Other minerals	262040	25 Non-metallic mineral products	681011
12 Other minerals	262050	25 Non-metallic mineral products	681019
12 Other minerals	262090	25 Non-metallic mineral products	681020
12 Other minerals	271490	25 Non-metallic mineral products	681091
12 Other minerals	310100	25 Non-metallic mineral products	681099
12 Other minerals	310410	25 Non-metallic mineral products	681110
12 Other minerals	710110	25 Non-metallic mineral products	681120
12 Other minerals	710121	25 Non-metallic mineral products	681130
12 Other minerals	710122	25 Non-metallic mineral products	681190
12 Other minerals	710210	25 Non-metallic mineral products	681210
12 Other minerals	710221	25 Non-metallic mineral products	681220
12 Other minerals	710229	25 Non-metallic mineral products	681230
12 Other minerals	710231	25 Non-metallic mineral products	681240
12 Other minerals	710239	25 Non-metallic mineral products	681250
12 Other minerals	710310	25 Non-metallic mineral products	681260
12 Other minerals	710391	25 Non-metallic mineral products	681270
12 Other minerals	710399	25 Non-metallic mineral products	681290
12 Other minerals	710410	25 Non-metallic mineral products	681310
12 Other minerals	710420	25 Non-metallic mineral products	681390
12 Other minerals	710490	25 Non-metallic mineral products	681410
12 Other minerals	710510	25 Non-metallic mineral products	681490
12 Other minerals	710590	25 Non-metallic mineral products	681510
12 Other minerals	740110	25 Non-metallic mineral products	681520
12 Other minerals	740120	25 Non-metallic mineral products	681591
12 Other minerals	750110	25 Non-metallic mineral products	681599
12 Other minerals	750120	25 Non-metallic mineral products	690100

		25 Non-metallic mineral products	690210
13 Meat products	20110	25 Non-metallic mineral products	690220
13 Meat products	20120	25 Non-metallic mineral products	690290
13 Meat products	20130	25 Non-metallic mineral products	690310
13 Meat products	20210	25 Non-metallic mineral products	690320
13 Meat products	20220	25 Non-metallic mineral products	690390
13 Meat products	20230	25 Non-metallic mineral products	690410
13 Meat products	20311	25 Non-metallic mineral products	690490
13 Meat products	20312	25 Non-metallic mineral products	690510
13 Meat products	20319	25 Non-metallic mineral products	690590
13 Meat products	20321	25 Non-metallic mineral products	690600
13 Meat products	20322	25 Non-metallic mineral products	690710
13 Meat products	20329	25 Non-metallic mineral products	690790
13 Meat products	20410	25 Non-metallic mineral products	690810
13 Meat products	20421	25 Non-metallic mineral products	690890
13 Meat products	20422	25 Non-metallic mineral products	690911
13 Meat products	20423	25 Non-metallic mineral products	690919
13 Meat products	20430	25 Non-metallic mineral products	690990
13 Meat products	20441	25 Non-metallic mineral products	691010
13 Meat products	20442	25 Non-metallic mineral products	691090
13 Meat products	20443	25 Non-metallic mineral products	691110
13 Meat products	20450	25 Non-metallic mineral products	691190
13 Meat products	20500	25 Non-metallic mineral products	691200
13 Meat products	20610	25 Non-metallic mineral products	691310
13 Meat products	20621	25 Non-metallic mineral products	691390
13 Meat products	20622	25 Non-metallic mineral products	691410
13 Meat products	20629	25 Non-metallic mineral products	691490
13 Meat products	20630	25 Non-metallic mineral products	700100
13 Meat products	20641	25 Non-metallic mineral products	700210
13 Meat products	20649	25 Non-metallic mineral products	700220
13 Meat products	20680	25 Non-metallic mineral products	700231
13 Meat products	20690	25 Non-metallic mineral products	700232
13 Meat products	20710	25 Non-metallic mineral products	700239
13 Meat products	20721	25 Non-metallic mineral products	700311
13 Meat products	20722	25 Non-metallic mineral products	700319
13 Meat products	20723	25 Non-metallic mineral products	700320
13 Meat products	20731	25 Non-metallic mineral products	700330
13 Meat products	20739	25 Non-metallic mineral products	700410
13 Meat products	20741	25 Non-metallic mineral products	700490
13 Meat products	20742	25 Non-metallic mineral products	700510
13 Meat products	20743	25 Non-metallic mineral products	700521
13 Meat products	20750	25 Non-metallic mineral products	700529
13 Meat products	20810	25 Non-metallic mineral products	700530
13 Meat products	20820	25 Non-metallic mineral products	700600
13 Meat products	20890	25 Non-metallic mineral products	700711
13 Meat products	20900	25 Non-metallic mineral products	700719
13 Meat products	21011	25 Non-metallic mineral products	700721
13 Meat products	21012	25 Non-metallic mineral products	700729
13 Meat products	21019	25 Non-metallic mineral products	700800

13 Meat products	21020	25 Non-metallic mineral products	700991
13 Meat products	21090	25 Non-metallic mineral products	700992
13 Meat products	30760	25 Non-metallic mineral products	701010
13 Meat products	50400	25 Non-metallic mineral products	701090
13 Meat products	160100	25 Non-metallic mineral products	701110
13 Meat products	160210	25 Non-metallic mineral products	701120
13 Meat products	160220	25 Non-metallic mineral products	701190
13 Meat products	160231	25 Non-metallic mineral products	701200
13 Meat products	160239	25 Non-metallic mineral products	701310
13 Meat products	160241	25 Non-metallic mineral products	701321
13 Meat products	160242	25 Non-metallic mineral products	701329
13 Meat products	160249	25 Non-metallic mineral products	701331
13 Meat products	160250	25 Non-metallic mineral products	701332
13 Meat products	160290	25 Non-metallic mineral products	701339
13 Meat products	160300	25 Non-metallic mineral products	701391
13 Meat products	230110	25 Non-metallic mineral products	701399
		25 Non-metallic mineral products	701400
14 Milk products	40110	25 Non-metallic mineral products	701510
14 Milk products	40120	25 Non-metallic mineral products	701590
14 Milk products	40130	25 Non-metallic mineral products	701610
14 Milk products	40210	25 Non-metallic mineral products	701690
14 Milk products	40221	25 Non-metallic mineral products	701710
14 Milk products	40229	25 Non-metallic mineral products	701720
14 Milk products	40291	25 Non-metallic mineral products	701790
14 Milk products	40299	25 Non-metallic mineral products	701810
14 Milk products	40310	25 Non-metallic mineral products	701820
14 Milk products	40390	25 Non-metallic mineral products	701890
14 Milk products	40410	25 Non-metallic mineral products	701910
14 Milk products	40490	25 Non-metallic mineral products	701931
14 Milk products	40500	25 Non-metallic mineral products	701932
14 Milk products	40610	25 Non-metallic mineral products	701939
14 Milk products	40620	25 Non-metallic mineral products	701990
14 Milk products	40630	25 Non-metallic mineral products	702000
14 Milk products	40640	25 Non-metallic mineral products	854610
14 Milk products	40690	25 Non-metallic mineral products	854620
14 Milk products	210500	25 Non-metallic mineral products	854690
		25 Non-metallic mineral products	854710
15 Processed rice	100630	25 Non-metallic mineral products	854720
15 Processed rice	100640	25 Non-metallic mineral products	854790
16 Beverages and tobacco	110710	26 Primary iron & steel manufact	261800
16 Beverages and tobacco	110720	26 Primary iron & steel manufact	261900
16 Beverages and tobacco	220110	26 Primary iron & steel manufact	262100
16 Beverages and tobacco	220190	26 Primary iron & steel manufact	720110
16 Beverages and tobacco	220210	26 Primary iron & steel manufact	720120
16 Beverages and tobacco	220290	26 Primary iron & steel manufact	720130
16 Beverages and tobacco	220300	26 Primary iron & steel manufact	720140
16 Beverages and tobacco	220410	26 Primary iron & steel manufact	720211
16 Beverages and tobacco	220421	26 Primary iron & steel manufact	720219

17 Other food products	160530	26 Primary iron & steel manufact	730410
17 Other food products	160540	26 Primary iron & steel manufact	730420
17 Other food products	160590	26 Primary iron & steel manufact	730431
17 Other food products	170111	26 Primary iron & steel manufact	730439
17 Other food products	170112	26 Primary iron & steel manufact	730441
17 Other food products	170191	26 Primary iron & steel manufact	730449
17 Other food products	170199	26 Primary iron & steel manufact	730451
17 Other food products	170210	26 Primary iron & steel manufact	730459
17 Other food products	170220	26 Primary iron & steel manufact	730490
17 Other food products	170230	26 Primary iron & steel manufact	730511
17 Other food products	170240	26 Primary iron & steel manufact	730512
17 Other food products	170250	26 Primary iron & steel manufact	730519
17 Other food products	170260	26 Primary iron & steel manufact	730520
17 Other food products	170290	26 Primary iron & steel manufact	730531
17 Other food products	170310	26 Primary iron & steel manufact	730539
17 Other food products	170390	26 Primary iron & steel manufact	730590
17 Other food products	170410	26 Primary iron & steel manufact	730610
17 Other food products	170490	26 Primary iron & steel manufact	730620
17 Other food products	180200	26 Primary iron & steel manufact	730630
17 Other food products	180310	26 Primary iron & steel manufact	730640
17 Other food products	180320	26 Primary iron & steel manufact	730650
17 Other food products	180400	26 Primary iron & steel manufact	730660
17 Other food products	180500	26 Primary iron & steel manufact	730690
17 Other food products	180610	26 Primary iron & steel manufact	730711
17 Other food products	180620	26 Primary iron & steel manufact	730719
17 Other food products	180631	26 Primary iron & steel manufact	730721
17 Other food products	180632	26 Primary iron & steel manufact	730722
17 Other food products	180690	26 Primary iron & steel manufact	730723
17 Other food products	190110	26 Primary iron & steel manufact	730729
17 Other food products	190120	26 Primary iron & steel manufact	730791
17 Other food products	190190	26 Primary iron & steel manufact	730792
17 Other food products	190211	26 Primary iron & steel manufact	730793
17 Other food products	190219	26 Primary iron & steel manufact	730799
17 Other food products	190220		
17 Other food products	190230	27 Primary non-ferrous metals	281820
17 Other food products	190240	27 Primary non-ferrous metals	710610
17 Other food products	190300	27 Primary non-ferrous metals	710691
17 Other food products	190410	27 Primary non-ferrous metals	710692
17 Other food products	190490	27 Primary non-ferrous metals	710700
17 Other food products	190510	27 Primary non-ferrous metals	710811
17 Other food products	190520	27 Primary non-ferrous metals	710812
17 Other food products	190530	27 Primary non-ferrous metals	710813
17 Other food products	190540	27 Primary non-ferrous metals	710900
17 Other food products	190590	27 Primary non-ferrous metals	711011
17 Other food products	200110	27 Primary non-ferrous metals	711019
17 Other food products	200120	27 Primary non-ferrous metals	711021
17 Other food products	200190	27 Primary non-ferrous metals	711029
17 Other food products	200210	27 Primary non-ferrous metals	711031
17 Other food products	200290	27 Primary non-ferrous metals	711039

17 Other food products	210390	27 Primary non-ferrous metals	750400
17 Other food products	210410	27 Primary non-ferrous metals	750511
17 Other food products	210420	27 Primary non-ferrous metals	750512
17 Other food products	210610	27 Primary non-ferrous metals	750521
17 Other food products	210690	27 Primary non-ferrous metals	750522
17 Other food products	220900	27 Primary non-ferrous metals	750610
17 Other food products	230120	27 Primary non-ferrous metals	750620
17 Other food products	230210	27 Primary non-ferrous metals	750711
17 Other food products	230220	27 Primary non-ferrous metals	750712
17 Other food products	230230	27 Primary non-ferrous metals	750720
17 Other food products	230240	27 Primary non-ferrous metals	750800
17 Other food products	230250	27 Primary non-ferrous metals	760110
17 Other food products	230310	27 Primary non-ferrous metals	760120
17 Other food products	230320	27 Primary non-ferrous metals	760200
17 Other food products	230330	27 Primary non-ferrous metals	760310
17 Other food products	230400	27 Primary non-ferrous metals	760320
17 Other food products	230500	27 Primary non-ferrous metals	760410
17 Other food products	230610	27 Primary non-ferrous metals	760421
17 Other food products	230620	27 Primary non-ferrous metals	760429
17 Other food products	230630	27 Primary non-ferrous metals	760511
17 Other food products	230640	27 Primary non-ferrous metals	760519
17 Other food products	230650	27 Primary non-ferrous metals	760521
17 Other food products	230660	27 Primary non-ferrous metals	760529
17 Other food products	230690	27 Primary non-ferrous metals	760611
17 Other food products	230810	27 Primary non-ferrous metals	760612
17 Other food products	230890	27 Primary non-ferrous metals	760691
17 Other food products	230910	27 Primary non-ferrous metals	760692
17 Other food products	230990	27 Primary non-ferrous metals	760711
		27 Primary non-ferrous metals	760719
18 Textiles	150510	27 Primary non-ferrous metals	760720
18 Textiles	150590	27 Primary non-ferrous metals	760810
18 Textiles	500400	27 Primary non-ferrous metals	760820
18 Textiles	500500	27 Primary non-ferrous metals	760900
18 Textiles	500600	27 Primary non-ferrous metals	780110
18 Textiles	500710	27 Primary non-ferrous metals	780191
18 Textiles	500720	27 Primary non-ferrous metals	780199
18 Textiles	500790	27 Primary non-ferrous metals	780200
18 Textiles	510130	27 Primary non-ferrous metals	780300
18 Textiles	510210	27 Primary non-ferrous metals	780411
18 Textiles	510220	27 Primary non-ferrous metals	780419
18 Textiles	510310	27 Primary non-ferrous metals	780420
18 Textiles	510320	27 Primary non-ferrous metals	780500
18 Textiles	510330	27 Primary non-ferrous metals	780600
18 Textiles	510400	27 Primary non-ferrous metals	790111
18 Textiles	510510	27 Primary non-ferrous metals	790112
18 Textiles	510521	27 Primary non-ferrous metals	790120
18 Textiles	510529	27 Primary non-ferrous metals	790200
18 Textiles	510530	27 Primary non-ferrous metals	790310
18 Textiles	510540	27 Primary non-ferrous metals	790390

18 Textiles	510610	27 Primary non-ferrous metals	790400
18 Textiles	510620	27 Primary non-ferrous metals	790500
18 Textiles	510710	27 Primary non-ferrous metals	790600
18 Textiles	510720	27 Primary non-ferrous metals	790790
18 Textiles	510810	27 Primary non-ferrous metals	800110
18 Textiles	510820	27 Primary non-ferrous metals	800120
18 Textiles	510910	27 Primary non-ferrous metals	800200
18 Textiles	510990	27 Primary non-ferrous metals	800300
18 Textiles	511000	27 Primary non-ferrous metals	800400
18 Textiles	511111	27 Primary non-ferrous metals	800510
18 Textiles	511119	27 Primary non-ferrous metals	800520
18 Textiles	511120	27 Primary non-ferrous metals	800600
18 Textiles	511130	27 Primary non-ferrous metals	800700
18 Textiles	511190	27 Primary non-ferrous metals	810110
18 Textiles	511211	27 Primary non-ferrous metals	810191
18 Textiles	511219	27 Primary non-ferrous metals	810192
18 Textiles	511220	27 Primary non-ferrous metals	810193
18 Textiles	511230	27 Primary non-ferrous metals	810199
18 Textiles	511290	27 Primary non-ferrous metals	810210
18 Textiles	511300	27 Primary non-ferrous metals	810291
18 Textiles	520210	27 Primary non-ferrous metals	810292
18 Textiles	520291	27 Primary non-ferrous metals	810293
18 Textiles	520300	27 Primary non-ferrous metals	810299
18 Textiles	520411	27 Primary non-ferrous metals	810310
18 Textiles	520419	27 Primary non-ferrous metals	810390
18 Textiles	520420	27 Primary non-ferrous metals	810411
18 Textiles	520511	27 Primary non-ferrous metals	810419
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18 Textiles	520625	27 Primary non-ferrous metals	960629
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18 Textiles	630222	30 Other machinery & equipment	840290
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18 Textiles	630253	30 Other machinery & equipment	840611
18 Textiles	630259	30 Other machinery & equipment	840619
18 Textiles	630260	30 Other machinery & equipment	840690
18 Textiles	630291	30 Other machinery & equipment	841011
18 Textiles	630292	30 Other machinery & equipment	841012
18 Textiles	630293	30 Other machinery & equipment	841013
18 Textiles	630299	30 Other machinery & equipment	841090
18 Textiles	630311	30 Other machinery & equipment	841181
18 Textiles	630312	30 Other machinery & equipment	841182
18 Textiles	630319	30 Other machinery & equipment	841199
18 Textiles	630391	30 Other machinery & equipment	841221
18 Textiles	630392	30 Other machinery & equipment	841229
18 Textiles	630399	30 Other machinery & equipment	841231
18 Textiles	630411	30 Other machinery & equipment	841239
18 Textiles	630419	30 Other machinery & equipment	841280
18 Textiles	630491	30 Other machinery & equipment	841290
18 Textiles	630492	30 Other machinery & equipment	841311
18 Textiles	630493	30 Other machinery & equipment	841319
18 Textiles	630499	30 Other machinery & equipment	841320
18 Textiles	630510	30 Other machinery & equipment	841330
18 Textiles	630520	30 Other machinery & equipment	841340

18 Textiles	630531	30 Other machinery & equipment	841350
18 Textiles	630539	30 Other machinery & equipment	841360
18 Textiles	630590	30 Other machinery & equipment	841370
18 Textiles	630611	30 Other machinery & equipment	841381
18 Textiles	630612	30 Other machinery & equipment	841382
18 Textiles	630619	30 Other machinery & equipment	841391
18 Textiles	630621	30 Other machinery & equipment	841392
18 Textiles	630622	30 Other machinery & equipment	841410
18 Textiles	630629	30 Other machinery & equipment	841420
18 Textiles	630631	30 Other machinery & equipment	841430
18 Textiles	630639	30 Other machinery & equipment	841440
18 Textiles	630641	30 Other machinery & equipment	841451
18 Textiles	630649	30 Other machinery & equipment	841459
18 Textiles	630691	30 Other machinery & equipment	841460
18 Textiles	630699	30 Other machinery & equipment	841480
18 Textiles	630710	30 Other machinery & equipment	841490
18 Textiles	630720	30 Other machinery & equipment	841510
18 Textiles	630790	30 Other machinery & equipment	841581
18 Textiles	630800	30 Other machinery & equipment	841582
18 Textiles	630900	30 Other machinery & equipment	841583
18 Textiles	631010	30 Other machinery & equipment	841590
18 Textiles	631090	30 Other machinery & equipment	841610
18 Textiles	650100	30 Other machinery & equipment	841620
18 Textiles	650200	30 Other machinery & equipment	841630
18 Textiles	701920	30 Other machinery & equipment	841690
18 Textiles	940430	30 Other machinery & equipment	841710
18 Textiles	940490	30 Other machinery & equipment	841720
		30 Other machinery & equipment	841780
19 Wearing apparel	392620	30 Other machinery & equipment	841790
19 Wearing apparel	401590	30 Other machinery & equipment	841810
19 Wearing apparel	610110	30 Other machinery & equipment	841821
19 Wearing apparel	610120	30 Other machinery & equipment	841822
19 Wearing apparel	610130	30 Other machinery & equipment	841829
19 Wearing apparel	610190	30 Other machinery & equipment	841830
19 Wearing apparel	610210	30 Other machinery & equipment	841840
19 Wearing apparel	610220	30 Other machinery & equipment	841850
19 Wearing apparel	610230	30 Other machinery & equipment	841861
19 Wearing apparel	610290	30 Other machinery & equipment	841869
19 Wearing apparel	610311	30 Other machinery & equipment	841891
19 Wearing apparel	610312	30 Other machinery & equipment	841899
19 Wearing apparel	610319	30 Other machinery & equipment	841911
19 Wearing apparel	610321	30 Other machinery & equipment	841919
19 Wearing apparel	610322	30 Other machinery & equipment	841920
19 Wearing apparel	610323	30 Other machinery & equipment	841931
19 Wearing apparel	610329	30 Other machinery & equipment	841932
19 Wearing apparel	610331	30 Other machinery & equipment	841939
19 Wearing apparel	610332	30 Other machinery & equipment	841940
19 Wearing apparel	610333	30 Other machinery & equipment	841950
19 Wearing apparel	610339	30 Other machinery & equipment	841960

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24 Chemicals, rubber & plastic	291534	30 Other machinery & equipment	940530
24 Chemicals, rubber & plastic	291535	30 Other machinery & equipment	940540
24 Chemicals, rubber & plastic	291539	30 Other machinery & equipment	940550
24 Chemicals, rubber & plastic	291540	30 Other machinery & equipment	940560
24 Chemicals, rubber & plastic	291550	30 Other machinery & equipment	940591
24 Chemicals, rubber & plastic	291560	30 Other machinery & equipment	940592
24 Chemicals, rubber & plastic	291570	30 Other machinery & equipment	940599
24 Chemicals, rubber & plastic	291590	30 Other machinery & equipment	950800
24 Chemicals, rubber & plastic	291611		
24 Chemicals, rubber & plastic	291612	31 Other manufact	640419
24 Chemicals, rubber & plastic	291613	31 Other manufact	660110
24 Chemicals, rubber & plastic	291614	31 Other manufact	660191
24 Chemicals, rubber & plastic	291615	31 Other manufact	660199
24 Chemicals, rubber & plastic	291619	31 Other manufact	660200
24 Chemicals, rubber & plastic	291620	31 Other manufact	660310
24 Chemicals, rubber & plastic	291631	31 Other manufact	660320
24 Chemicals, rubber & plastic	291632	31 Other manufact	660390
24 Chemicals, rubber & plastic	291633	31 Other manufact	670100
24 Chemicals, rubber & plastic	291639	31 Other manufact	670210
24 Chemicals, rubber & plastic	291711	31 Other manufact	670290
24 Chemicals, rubber & plastic	291712	31 Other manufact	670300
24 Chemicals, rubber & plastic	291713	31 Other manufact	670411
24 Chemicals, rubber & plastic	291714	31 Other manufact	670419
24 Chemicals, rubber & plastic	291719	31 Other manufact	670420
24 Chemicals, rubber & plastic	291720	31 Other manufact	670490
24 Chemicals, rubber & plastic	291731	31 Other manufact	710820
24 Chemicals, rubber & plastic	291732	31 Other manufact	711311
24 Chemicals, rubber & plastic	291733	31 Other manufact	711319
24 Chemicals, rubber & plastic	291734	31 Other manufact	711320
24 Chemicals, rubber & plastic	291735	31 Other manufact	711411
24 Chemicals, rubber & plastic	291736	31 Other manufact	711419
24 Chemicals, rubber & plastic	291737	31 Other manufact	711420
24 Chemicals, rubber & plastic	291739	31 Other manufact	711590
24 Chemicals, rubber & plastic	291811	31 Other manufact	711610
24 Chemicals, rubber & plastic	291812	31 Other manufact	711620
24 Chemicals, rubber & plastic	291813	31 Other manufact	711711
24 Chemicals, rubber & plastic	291814	31 Other manufact	711719
24 Chemicals, rubber & plastic	291815	31 Other manufact	711790
24 Chemicals, rubber & plastic	291816	31 Other manufact	711810
24 Chemicals, rubber & plastic	291817	31 Other manufact	711890
24 Chemicals, rubber & plastic	291819	31 Other manufact	880400
24 Chemicals, rubber & plastic	291821	31 Other manufact	902140
24 Chemicals, rubber & plastic	291822	31 Other manufact	902190
24 Chemicals, rubber & plastic	291823	31 Other manufact	920110
24 Chemicals, rubber & plastic	291829	31 Other manufact	920120
24 Chemicals, rubber & plastic	291830	31 Other manufact	920190
24 Chemicals, rubber & plastic	291890	31 Other manufact	920210
24 Chemicals, rubber & plastic	291900	31 Other manufact	920290
24 Chemicals, rubber & plastic	292010	31 Other manufact	920300

24 Chemicals, rubber & plastic	293100	31 Other manufact	950661
24 Chemicals, rubber & plastic	293211	31 Other manufact	950662
24 Chemicals, rubber & plastic	293212	31 Other manufact	950669
24 Chemicals, rubber & plastic	293213	31 Other manufact	950670
24 Chemicals, rubber & plastic	293219	31 Other manufact	950691
24 Chemicals, rubber & plastic	293221	31 Other manufact	950699
24 Chemicals, rubber & plastic	293229	31 Other manufact	950710
24 Chemicals, rubber & plastic	293290	31 Other manufact	950720
24 Chemicals, rubber & plastic	293311	31 Other manufact	950730
24 Chemicals, rubber & plastic	293319	31 Other manufact	950790
24 Chemicals, rubber & plastic	293321	31 Other manufact	960110
24 Chemicals, rubber & plastic	293329	31 Other manufact	960190
24 Chemicals, rubber & plastic	293331	31 Other manufact	960200
24 Chemicals, rubber & plastic	293339	31 Other manufact	960310
24 Chemicals, rubber & plastic	293340	31 Other manufact	960321
24 Chemicals, rubber & plastic	293351	31 Other manufact	960329
24 Chemicals, rubber & plastic	293359	31 Other manufact	960330
24 Chemicals, rubber & plastic	293361	31 Other manufact	960340
24 Chemicals, rubber & plastic	293369	31 Other manufact	960350
24 Chemicals, rubber & plastic	293371	31 Other manufact	960390
24 Chemicals, rubber & plastic	293379	31 Other manufact	960400
24 Chemicals, rubber & plastic	293390	31 Other manufact	960630
24 Chemicals, rubber & plastic	293410	31 Other manufact	960810
24 Chemicals, rubber & plastic	293420	31 Other manufact	960820
24 Chemicals, rubber & plastic	293430	31 Other manufact	960831
24 Chemicals, rubber & plastic	293490	31 Other manufact	960839
24 Chemicals, rubber & plastic	293500	31 Other manufact	960840
24 Chemicals, rubber & plastic	293610	31 Other manufact	960850
24 Chemicals, rubber & plastic	293621	31 Other manufact	960860
24 Chemicals, rubber & plastic	293622	31 Other manufact	960891
24 Chemicals, rubber & plastic	293623	31 Other manufact	960899
24 Chemicals, rubber & plastic	293624	31 Other manufact	960910
24 Chemicals, rubber & plastic	293625	31 Other manufact	960920
24 Chemicals, rubber & plastic	293626	31 Other manufact	960990
24 Chemicals, rubber & plastic	293627	31 Other manufact	961000
24 Chemicals, rubber & plastic	293628	31 Other manufact	961100
24 Chemicals, rubber & plastic	293629	31 Other manufact	961210
24 Chemicals, rubber & plastic	293690	31 Other manufact	961220
24 Chemicals, rubber & plastic	293710	31 Other manufact	961310
24 Chemicals, rubber & plastic	293721	31 Other manufact	961320
24 Chemicals, rubber & plastic	293722	31 Other manufact	961330
24 Chemicals, rubber & plastic	293729	31 Other manufact	961380
24 Chemicals, rubber & plastic	293791	31 Other manufact	961390
24 Chemicals, rubber & plastic	293792	31 Other manufact	961410
24 Chemicals, rubber & plastic	293799	31 Other manufact	961420
24 Chemicals, rubber & plastic	293810	31 Other manufact	961490
24 Chemicals, rubber & plastic	293890	31 Other manufact	961511
24 Chemicals, rubber & plastic	293910	31 Other manufact	961519
24 Chemicals, rubber & plastic	293921	31 Other manufact	961590

24 Chemicals, rubber & plastic	293929	31 Other manufact	961610
24 Chemicals, rubber & plastic	293930	31 Other manufact	961620
24 Chemicals, rubber & plastic	293940	31 Other manufact	961700
24 Chemicals, rubber & plastic	293950	31 Other manufact	961800
24 Chemicals, rubber & plastic	293960	31 Other manufact	970110
24 Chemicals, rubber & plastic	293970	31 Other manufact	970190
24 Chemicals, rubber & plastic	293990	31 Other manufact	970200
24 Chemicals, rubber & plastic	294000	31 Other manufact	970300
24 Chemicals, rubber & plastic	294110	31 Other manufact	970400
24 Chemicals, rubber & plastic	294120	31 Other manufact	970500
24 Chemicals, rubber & plastic	294130	31 Other manufact	970600
24 Chemicals, rubber & plastic	294140	31 Other manufact	980100
24 Chemicals, rubber & plastic	294150	31 Other manufact	980200
24 Chemicals, rubber & plastic	294190	31 Other manufact	980300
24 Chemicals, rubber & plastic	294200	31 Other manufact	980400
24 Chemicals, rubber & plastic	300110	31 Other manufact	980500
24 Chemicals, rubber & plastic	300120	31 Other manufact	980600
24 Chemicals, rubber & plastic	300190	31 Other manufact	980700
24 Chemicals, rubber & plastic	300210	31 Other manufact	980900
24 Chemicals, rubber & plastic	300220	31 Other manufact	988888
24 Chemicals, rubber & plastic	300231	31 Other manufact	990110
24 Chemicals, rubber & plastic	300239	31 Other manufact	990120
24 Chemicals, rubber & plastic	300290	31 Other manufact	990210
24 Chemicals, rubber & plastic	300310	31 Other manufact	990220
24 Chemicals, rubber & plastic	300320	31 Other manufact	990300
24 Chemicals, rubber & plastic	300331	31 Other manufact	998888
24 Chemicals, rubber & plastic	300339	31 Other manufact	999910
24 Chemicals, rubber & plastic	300340	31 Other manufact	999921
24 Chemicals, rubber & plastic	300390	31 Other manufact	999930
24 Chemicals, rubber & plastic	300410	31 Other manufact	999931
24 Chemicals, rubber & plastic	300420	31 Other manufact	999940
24 Chemicals, rubber & plastic	300431	31 Other manufact	999941
24 Chemicals, rubber & plastic	300432		
24 Chemicals, rubber & plastic	300439	32 Electricity, gas & water	271600
24 Chemicals, rubber & plastic	300440		
24 Chemicals, rubber & plastic	300450	33 Trade & transport	-
24 Chemicals, rubber & plastic	300490		
24 Chemicals, rubber & plastic	300510	34 Ownership of dwellings	-
24 Chemicals, rubber & plastic	300590		
24 Chemicals, rubber & plastic	300610	35 Other services (Private)	-
24 Chemicals, rubber & plastic	300620		
24 Chemicals, rubber & plastic	300630	36 Other services (Government)	-
24 Chemicals, rubber & plastic	300640		
24 Chemicals, rubber & plastic	300650	37 Construction	999999
24 Chemicals, rubber & plastic	300660		

APPENDIX B: SINTIA DATA FILES AND DATA SOURCES

A sample of the available data files is discussed below to give the user an idea of the type, accuracy, sources and method of data collection that have previously been used.

Japan

JAPANT.SIN is a primary data file containing HS tariff rates and the cif values of imports. The tariff rates listed in this file agree with the prescribed rates listed in the source, "Customs Tariff Schedules of Japan, 1989". The data source was published by the Japan Tariff Association. The preferential tariff rate was always assumed not to apply, because this rate only holds when imports are used for a specific purpose. The temporary rate was assumed to hold where prescribed. This rate usually spanned the period 1 April 1989 to 31 March 1990. The *ad valorem* equivalent rate was calculated for items that were subject to a specific tax, ie. a fixed tariff in yen per unit. The *ad valorem* rate was determined by dividing the yen tariff by the border (cif) value per unit in yen. The value per unit came from a printout source. The printout source is a transcription of a data tape published by the Australian Bureau of Statistics on 1985 trade flows; series number 5464.0.

JAPAN.SIN. In this primary data file cif import values were consistent with those recorded in the printout source. The *ad valorem* tariff rate was taken from "Customs Tariff Schedules of Japan, 1989", and is the highest possible rate per item, not the actual rate charged for the item in question found in JAPANT.SIN. It is not clear what this file was used for.

JAPAN.TAR. cif import values were absent from the file, which contained only the tariff rates. Where present, the tariff rates in this file were the same as those in the file JAPAN.SIN.

JAPPROD.VAL is a secondary data file that maps a series of HS codes to ISIC classification for the ISIC manufacturing commodities. That is, ISIC codes are defined in the file as subsectors. The file contains the values of domestic production for each ISIC manufacturing code at the 4-digit level. Non-manufacturing ISIC commodities do not map neatly into SALTER commodity composites. For this reason, HS values of imports are used instead to weight average tariff rates for SALTER's non-manufacturing commodities. The source for the ISIC production values was the International Economic Data Bank at the Australian National University. Example 15 was drawn from a file similar to JAPPROD.VAL.

United States

USA.TAR is a primary data file listing unweighted tariff rates for HS commodities.

USA.SIN is a HS-based primary data file containing cif import values and tariff rates. The tariff rates correspond to the percentage rates in the "Harmonized Tariff Schedule of the United States" published by the United States International Trade Commission. The method for calculating the *ad valorem* equivalent of value tariffs was to divide the total duty collected for a commodity by the total cif value for that commodity. Note that the US data is taken from 1988 values.

US_AV.SIN contains the cif import values and tariff rates. The rates listed in the "Harmonized Tariff Schedule of the United States" in *ad valorem* terms differ from the rates given to corresponding commodities on this file. The *ad valorem* rates in the file are taken from the printout source and are similar but not equal to the *ad valorem* rates listed in the "Harmonized Tariff Schedule of the United States". However, the remaining rates, ie. those subject to value tariffs in the "Harmonized Tariff Schedule of the United States", are largely taken from the printout source and are thus the same as corresponding rates in USA.SIN. However, some rates subject to value taxes (especially commodities in the HS group beginning 07.13) differ from the rates given in the printout source. The method by which these rates were calculated is unknown.

USPROD.VAL is the same in source and content as JAPPROD.VAL except that US production values are used.

Canada

CANADA.SIN contains 1988 HS customs tariff data published by Revenue Canada Customs and Excise for commodities for which an *ad valorem* tariff applies. The printout source contained only the cif value of imports and not the quantity of imports, so it is unknown how the *ad valorem* equivalent of specific tariffs was arrived at. CANADA.TAR is a primary data file that contains no import values. CANPROD.VAL is a secondary data file similar to USPROD.VAL and JAPPROD.VAL.

Other Countries

The files for other countries with the suffixes .SIN, .TAR and PROD.VAL follow the conventions described above. Refer to Table B1 for further explanation. A useful file that can be used with primary data from any country is IMPORT.D. This is an unweighted import-type secondary data file that maps HS code into 37 SALTER commodities. Example 14 was drawn from IMPORT.D.

Table B1: SINTIA data files used to generate SALTER tariff data

Country	Source of			Notes
	<i>Tariff rates</i>	<i>Import values</i>	<i>Production values</i>	
Australia	aeb	aeb	aeb	Final data for the SALTER database was provided by AEB. Appendix D and Gotch (forthcoming) refer.
New Zealand	pe	pe	un	NRP data calculated using the files NZ.SIN and IMPORT.D. Although tariff rates were calculated for NZ using SINTIA, the rates in the database are taken from Syntec (1988). Gotch (forthcoming) refers.
Canada	pe	pe	anu	NRP data calculated using the files CANADA.SIN, IMPORT.D and CANPROD.VAL.
USA	pe	pe	anu	NRP data calculated using the files USA.SIN, IMPORT.D and USPROD.VAL.
Japan	pe	pe	anu	NRP data calculated using the files JAPANT.SIN, IMPORT.D and JAPPROD.VAL.
Korea	pe	pe	un	NRP data calculated using the files KOREA.SIN and IMPORT.D.
EEC	pe	pe	anu	NRP data calculated using the files EEC.SIN, IMPORT.D and ECPROD.VAL. The production data for the EC was calculated as the sum of production data from the OECD members of the EC.
Thailand	pe	pe	*	NRP data calculated using the files THAI.SIN and IMPORT.D.
Malaysia	pe	pe	un	NRP data calculated using the files MALAYSIA.SIN and IMPORT.D.
Indonesia	pe	sitc	un	NRP data calculated using the files INDON.SIN and IMPORT.D.
Philippines	pe	sitc	un	NRP data calculated using the files PHILIPPI.SIN and IMPORT.D.
Singapore	pe	sitc	un	NRP data calculated using the files SINGAPOR.SIN and IMPORT.D.

* Production data for Thailand could not be obtained; import-weighted rates of protection were reported instead.

pe: Pre-existing data. This is stored in primary data files with the suffix **.SIN**. These files also contain the value of imports.

anu: OECD value of production data from the International Economic Data Bank (IEDB) at the Australian National University. These ISIC data are held in secondary data files with the suffix **.VAL**.

-
- un:** United Nations UNIDO Industrial Statistics Database. Contains ISIC production data. Missing values (limited number) were set to zero. Data for Thailand were not available. These ISIC data are held in secondary data files with the suffix `.VAL`.
- aeb:** Assistance Evaluation Branch of the Industry Commission provided the final Australian values for inclusion in the SALTER database. Refer to Appendix D.
- sitc:** Import values were obtained, originally listed by Standard International Trade Classification (SITC) before translation to HS classification. The SITC to HS concordance (see Appendix A) did not provide an exact mapping so there is some degree of approximation involved. The convention followed was to add SITC import values for which there was no HS equivalent to the next closest HS value, whilst remaining in the same HS bracket as defined at the 4-digit level. A further approximation was involved in mapping the translated ISIC import values to the existing primary data files. HS codes listed in the primary data files did not exactly match the translated ISIC listing of the values of imports. In this case, the translated ISIC values that did not also exist in the primary data file were added to the next closest HS code in the primary file, whilst remaining in the same HS bracket as defined at the 4-digit level.
- Singapore data is an exception to this process. The primary data file for Singapore has large gaps in the HS code continuum, so some of the translated ISIC import values were simply omitted from the primary data file because there was no sensible means of including them in an available HS code. A value was omitted from the primary data file if the first 4 digits of the HS code corresponding to that value did not feature in the primary data file. Otherwise, the HS values that did not also exist in the primary data file were added to the next closest HS code in the primary file, whilst remaining in the same HS bracket as defined at the 4-digit level.
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General notes on Table B1

Unweighted (simple average) nominal rates of protection were calculated using the file for the relevant country with the `.SIN` suffix and the file `import.d`. The same files were used to find the nominal rates of protection weighted by the value of imports. Note that the file `import.d` is a modified version of the file with the same name provided with the SINTIA package. It is modified to allow the HS codes to be grouped into SALTER commodity aggregates. That is, SALTER commodities are defined as sectors and partitions using the methods previously explained and the HS to SALTER concordance provided in Appendix A.

The nominal rates of protection weighted by value of domestic production were calculated using the files for the relevant country with the suffixes `.SIN` and `.VAL`. The production values were supplied from two sources, both in International Standard Industrial Classification. The production data was included in secondary data files using the ISIC to SALTER concordance provided in Appendix A.

APPENDIX C: SYSTEM SETUP FILES TO RUN SINTIA

To run SINTIA, the conventional memory must be reasonably free. Also, SINTIA cannot function with a memory manager that controls the allocation of expanded memory. To free up conventional memory the startup files must economise on applications that use conventional memory. Such applications are typically device drivers and memory set-asides in the CONFIG.SYS file; and memory-resident utility programs and environment variables in the AUTOEXEC.BAT file.

The SINTIA program cannot support a memory manager that allocates expanded memory, which is usually the HIMEM.SYS manager. Thus HIMEM.SYS needs to be removed from the CONFIG.SYS file. The reason why SINTIA cannot function with HIMEM.SYS is that SINTIA allocates extended memory directly, rather than via a memory manager.

Before running SINTIA, delete the current AUTOEXEC.BAT file and the CONFIG.SYS file (keeping backup files so that they can be restored later) and replace them with the files provided below. These files assume that the COMMAND.COM file is located in the \MSDOS directory.

CONFIG.SYS

```
REM
REM      SINTIA configuration file
REM
SHELL=C:\MSDOS\COMMAND.COM /p
FILES=20
BUFFERS=15
STACKS=0,0
AUTOEXEC.BAT
```

@ECHO OFF

```
REM
REM      SINTIA Autoexec Batch File
REM
SET COMSPEC=C:\MSDOS\COMMAND.COM
PROMPT $p$g
PATH=C:\MSDOS;C:\UTIL;C:\BB
DOSKEY /insert
```

APPENDIX D: AUSTRALIAN DATA SUPPLIED BY THE ASSISTANCE EVALUATION BRANCH OF THE INDUSTRY COMMISSION

Production-weighted average tariff rates.

Production-weighted average tariff rates were derived for 4-digit ASIC industries that concorded with SALTER manufacturing industries. In order to estimate these average tariff rates, AEB constructs a concordance between significant output codes (used by the Australian Bureau of Statistics to collect manufacturing census data for ASIC industries), and the HS 8-digit level of the Customs schedule (the level at which tariffs are applied on competing imports). Weights, based on domestic production patterns, are assigned for most codes as more than one tariff item is usually relevant.

For industries assisted by tariffs only, the production-weighted average tariff rates are equivalent to the Commission's published nominal rates of assistance divided by the average vfd/cife (value for duty/cost insurance freight exchange) ratio for each industry. In this way the nominal rates (ldf based) are converted to tariff rates (fob based). Where other forms of assistance are relevant these were excluded before converting the nominal rate to a tariff equivalent.

For a more detailed discussion of the Commission's manufacturing assistance measurement methodology see Plunkett and Argy (1992).

Import-weighted average tariff rates

Import-weighted average tariff rates were calculated using duty paid as a percentage of the fob value of imports for each ASIC category.

