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WORLD TRADE FLOWS, 1970-1992,  
WITH PRODUCTION AND TARIFF DATA

Robert C. Feenstra  
Robert E. Lipsey  
Harry P. Bowen

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### **ABSTRACT**

This paper describes two databases dealing with world bilateral trade flows: the World Trade Database (WTDB) assembled by Statistics Canada, which contains bilateral trade flows for all countries over 1970-1992, classified according to the Standard International Trade Classification, Revision 2 (with some modification); and the Compatible Trade and Production (COMTAP) database assembled by the Organization for Economic Cooperation and Development (OECD), which contains production of manufactured goods in OECD countries and bilateral trade flows between these countries and all their trading partners over 1970-1985, classified according to the International Standard Industrial Classification, Revision 2. These databases are available to academic users on the CD-ROM "NBER Trade Database, Disk 2: World Trade Flows, 1970-1992," which can be ordered for \$50 from the Publications Department, NBER, 1050 Massachusetts Avenue, Cambridge, MA 02138. Also contained on the CD-ROM is information on country factor endowments, tariff and non-tariff barriers for selected countries, and input-output tables for the United Kingdom and the United States. The WTDB database is made available under a license with Statistics Canada, the terms of which are described herein, and the COMTAP database is made available by permission of the OECD.

Robert C. Feenstra  
Department of Economics  
University of California  
Davis, CA 95616  
and NBER  
rcfeenstra@ucdavis.edu

Robert E. Lipsey  
National Bureau of Economic  
Research  
50 East 42nd Street  
New York, NY 10017  
and NBER  
relqc@cunyvm.cuny.edu

Harry P. Bowen  
Department of Economics  
University of California  
Irvine, CA 92717  
and NBER  
hpbowen@uci.edu

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## **1. Introduction**

While it can be difficult to obtain accurate data on the trade flows of a single country, the difficulties are multiplied enormously when one attempts to obtain bilateral trade flows among all countries, varying widely in their statistical development and collecting their data in a variety of statistical systems and classifications. The main source for bilateral trade data is the United Nations Statistical Office, which collects the trade data from individual countries, providing them with an international trade classification into which they are to fit their own national systems as best they can. The United Nations (UN) then publishes these data in summary form in the Yearbook of International Trade Statistics and in the full reported detail in Commodity Trade Statistics, but does not attempt to supplement the reported data or make them consistent across countries or years.

Statistics Canada has recompiled the UN trade data on a consistent basis, using a version of the Standard International Trade Classification (SITC) Revision 2, modified to match Canadian trade and industry classifications and to accommodate some of the variation in the way countries report their data. The resulting dataset is called the World Trade Database (WTDB), and the annual bilateral trade values from the WTDB for all countries of the world over 1970-1992 are included on this CD-ROM.

The Statistics Canada world trade data are made available here through a Corporate User license purchased by the NBER. This license permits the NBER to distribute the data to academic and other nonprofit secondary users, but stipulates that : "...they may not rent, lease, lend, sub-license, or transfer the data product of any of your [that is, the NBER's] rights under this agreement to anyone else. They may not develop or derive for commercial sales any other product in machine readable form that incorporates or uses any substantial part of this data product. Each secondary user must be issued a copy of the Statistics Canada, International Trade Division, Limited Use Data Product License Agreement, End-User Category I. This End-User License Agreement is provided in Appendix A, and your use of the Statistics Canada data provided in this database indicates that you agree to the terms set forth there. Inquiries about the data included here, and the purchase of more recent years of data, can be directed towards Statistics Canada at the address and phone number listed in Appendix A.<sup>1</sup>

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<sup>1</sup> Buyers of this CD-ROM are entitled to a reduced rate on the purchase of more recent years of data.

A difficulty in dealing with the UN trade data arises from the use of the Standard International Trade Classification (SITC). This system is used by many countries to report their disaggregate trade flows, and the WTDB uses a slightly modified version of the SITC, Revision 2. The problem with this classification system is that it does not match in any straightforward way the classification system used for industrial outputs. Thus, the trade data cannot be easily compared to domestic production data. We have addressed this problem by summing the WTDB data according to a 34 manufacturing industry basis used by the U.S. Bureau of Economic Analysis, that is quite similar to the U.S. Standard Industrial Classification. Included on the CD-ROM are the annual bilateral trade values between all countries of the world over 1970-1992 according to this 34-industry basis.

This difficulty has also been addressed by the Compatible Trade and Production (COMTAP) database, assembled by the Organization for Economic Cooperation and Development (OECD). The COMTAP database uses the International Standard Industrial Classification (ISIC), Revision 2, to consistently report production of manufactured goods in the OECD countries and bilateral trade of manufactured goods between these countries and all their trading partners. Unlike the WTDB, however, the COMTAP database makes no attempt to resolve differences between the value of trade reported by importing and exporting countries, but simply includes both values. The annual COMTAP data for twenty-two OECD countries over 1970-1985 are included on the CD-ROM.

The COMTAP database is made available here by permission of the OECD. It should be noted that the COMTAP database was discontinued after 1985, and was replaced by two other databases: the STAN (Structural Analysis industrial database) and the BTDF (Bilateral Trade flows), that provide information on industrial activity and bilateral trade flows for selected OECD and partner countries. Details about these databases can be obtained from the OECD Publications Service, 2 rue André Pascal, 75775 Paris Cedex 16, France.

In the next section we discuss a number of features of the Statistics Canada data including the methods of construction and the ways in which the classifications differ from the SITC, and our aggregation of it to the 34-industry basis. The construction of the COMTAP database is discussed in section 3. Following this, in section 4 we compare aggregate values from both these databases to alternative data sources. We find that the attribution of goods shipped from China

through Hong Kong is quite different in the various datasets. This illustrates the general difficulty of handling trade through entrepôt countries, and researchers should be mindful of this limitation when using the Statistics Canada data. Also included on the CD-ROM are a variety of other datasets, including country's factor endowments, tariff and non-tariff barriers for selected countries, and input-output tables and related data for the United Kingdom and the United States. Technical documentation for all the data is provided in section 5.

## **2. Description of the Statistics Canada Trade Data**

### **2A. Country Trade Flows**

All countries that report trade data to the UN and some that do not are included in the trade data base. They are listed according to their six-digit Standard Classification of Customs Areas and Territories. The complete list of country numbers and names is given in Appendix B of this paper. In a few cases, countries have been grouped into a single aggregate, and these are indicated in the Appendix.

The data reported to the UN are incomplete in time, country, or commodity coverage. Some of the omissions on the export or import can be filled by the report of the opposite side of a trade: exporters' reports for omitted imports and importers' reports for omitted exports. Statistics Canada estimates that it has independent reports from exporters and importers for 87% of trade and reports from at least one side for 98% of trade.

A world trade matrix is, by its nature, two-valued, because each transaction is reported twice, once as an export and once as an import. The reports almost always differ, often substantially, for many reasons, including differences in the treatment of transport costs, in commodity designations, and in valuations, and because of uncertainty as to sources of imports and destinations of exports, even when there is no intention to report falsely to evade taxes or other regulations. The existence of these discrepancies has been discussed by statisticians for over a hundred years, and extensive analyses for earlier years were performed, for example, by Lichtenberg (1959) and Woolley (1966).

Since the Statistics Canada WTDB is aimed at a single-valued array, a choice had to be made as to the governing, or benchmark, values. The decision was to benchmark each country's total exports to the world to the world total of imports from that country reported in the

International Monetary Fund volumes on The Direction of Trade (DOT). The coverage of total imports by country of origin in the DOT is substantially more complete than that of the detailed trade data reported to the UN. Data by partner country and by commodity were then adjusted in various ways so as to be compatible with these control totals. After the period covered here an exception was made to the import benchmark rule. Intra-European-Union trade since 1993 has been benchmarked to export, rather than import, totals.

Many countries report exports or imports for groups of partner countries, particularly for minor partners in a commodity, often reported as, for example, "EEC, not elsewhere specified (n.e.s.)". Statistics Canada attempts to allocate these trades using partner records. The process begins with a comparison at the regional level between reported exports by a country to a region and reported imports by the region from the country. If the latter total is smaller, it is taken as correct and the extra exports are assumed to have gone to countries outside the region or to have been incorrectly reported in some other respect. If the import total is larger, the exports to unspecified destinations are allocated among the countries reporting imports but not reported separately by the exporter. However, the allocation is not permitted to raise the importing country's total imports from the exporter above the reported DOT level. As a result, some exports may not be allocated by country, particularly when some importing countries in the region are non-reporters, and remain in the n.e.s. category (as Bordé, 1990 puts it, "unspecified exports cannot be reallocated to non-reporting countries"). After these adjustments are made at the regional level, exports in the categories, "Areas, n.e.s.," "Not Specified," "Free Zones," "For Ships," and "Special Categories," are added and redistributed to all countries, except where that would raise total imports above the DOT level, in which case the excess is put into the category, "Countries, N.E.C."

Another way in which import values are the governing ones is in the choice of valuations. Since import values are usually reported on a c.i.f. basis, and export values on an f.o.b. basis, the former will tend to be larger for any trade reported by both sides because of the inclusion of insurance and freight. According to Bordé (1990), the adjustment is carried out initially on a regional basis, and then only if the discrepancy is less than 15%. The world discrepancy is first distributed among three principal regions of the world, Europe/Mediterranean, the Americas, and

Asia. Then the discrepancy for each region is distributed proportionately among the countries of the region, but not by commodity.

A long-standing cause of discrepancies between export and import reports is the existence of entrepôts, countries that import and then re-export products. Often, the exporter (A) reports the entrepôt (B) as the destination of the shipment, while the entrepôt country does not report the import and the final importer (C) reports the original exporter (A) as the origin. Statistics Canada identifies “Entrepôt Trade” as occurring when exports of a commodity from A to B, adjusted for valuation and other corrections, are larger than reported imports. In the case above, there is an “entrepôt surplus” between A and B and an “entrepôt deficit” between A and C. If the entrepôt surplus is smaller than the sum of the entrepôt deficits in country B’s region, the whole surplus is distributed to the countries *within that* region, or some selected group of them, that report such deficits. It is not specified in Bordé (1990), p.xx, how the distribution is performed. If the entrepôt surplus is larger than the sum of the entrepôt deficits, the difference is not distributed but is added to the imports of the entrepôt country.

This method of dealing with entrepôt trade seems to be adaptable to the situation of an entrepôt country such as the Netherlands, which acts as an entrepôt for imports into countries in its own region. It does not seem to cover the case of entrepôts such as Hong Kong or Singapore, which re-export to countries outside their region to a large extent. This will be illustrated when we compare the WTDB to alternative data sources, in section 4.

## **2B. Commodity Classification**

The UN’s Standard International Trade Classification (SITC) has been revised several times, mostly in the direction of providing more detail, particularly in high-tech sectors. The SITC Revision 1 was promulgated in 1963, in large part to establish a two-way mapping with the Brussels Tariff Nomenclature (BTN), used by many European countries, among others. Revision 2, with a more elaborate treatment of computers and semiconductors, among other changes, was published in 1975. Statistics Canada opted to base the WTDB on Revision 2 at the 4-digit, or Subgroup, commodity level. From 1970 to 1979 the quality of the data base is somewhat lower than in later years because many countries were still reporting to the UN on the basis of SITC



Revision 1 and a double conversion was therefore required, first from national nomenclatures to Revision 1 and then from Revision 1 to Revision 2.

Since the main original purpose of the WTDB was to assess Canada's international trade position, many alterations in the commodity classification were made to improve matching with Canadian data. Other alterations were made because other countries' classifications did not readily map into the SITC at the 4-digit level or because Revision 1 did not map well into Revision 2. When two or more SITC Revision 2 codes were combined, the original codes were described as having been "rolled up" into other original codes or into created codes. Statistics Canada's published list of "roll-ups," with additions and corrections based on correspondence with Statistics Canada, is reproduced here as Appendix C. Some explanations of aspects of the classification and of the roll-ups are given below.

Several features of the commodity classification that cause it to differ from the SITC should be noted. Many of the rolled-up codes end in the fourth position with the letter A. These codes are really 3-digit, or Group, SITC codes or combinations of them. Thus, for example, 665A is a combination of all of SITC Group 664 and all of SITC Group 665.

Another set of codes not appearing in the SITC is those ending in X, XX, or XXX. These result from incomplete reporting at the 4, 3, or 2-digit level, so that the sum of reported 4-digit Subgroups falls short of the 3-digit Group total, the sum of reported 3-digit Groups falls short of the 2-digit Division total, or the sum of reported 2-digit Divisions falls short of the 1-digit Section total. If partner country data are not available or suitable for allocating the unidentified commodities, Statistics Canada created a residual category, representing "unidentified" trade. Thus, 112X represents unallocated products in SITC Group 112, 11XX would represent unallocated products in SITC Division 11, and 1XXX would represent unallocated products in SITC Section 1.

Theoretically, no trade should be reported for commodities listed in the "From" column of Appendix C. In fact, quite a few such entries appear in the data. In some cases the reason for the presence of reported trade in these categories is a consequence of the fact that countries were using SITC Rev. 1 and that Statistics Canada converted the data to SITC Rev. 2 but did not carry out the additional step of rolling up these converted codes in the same way as for those countries reporting originally using SITC Rev. 2.

A few of the codes listed under “from” in Appendix C are not SITC Revision 2 numbers. Two of them, 0221 and 5810, are SITC Revision 1 numbers that were, for some reason, not converted. A third one, 1125, is unidentified, but appears only once, in 1986 data for Kenya.

In some cases, the originally reported national codes could not be mapped into a specific SITC Rev. 2 code. For these, Statistics Canada created what they refer to as “nationalized” 4-digit codes. These are:

- 3359 Petroleum oil preparations and residues, n.e.s.
- 5119 Hydrocarbons and derivatives, n.e.s.
- 6748 Sheets, iron and steel, rolled, less than 3 mm. in thickness, and tinplate
- 7925 Aircraft, except gliders, airships, etc.
- 8411 Safety and specialized clothing
- 8925 Maps, greeting cards, and music, printed
- 9999 Non-identified products

Some codes that appear in the WTDB, such as 9915 and 9916, are for “non-trade” items, goods that cross national borders but are excluded from trade statistics. Two examples are goods for repair and goods temporarily admitted. The codes are included even though no trade was reported in either one. Code 8234 in the WTDB appears to be an error in reporting but it is used only once, for a minor amount of imports by Oman in 1987.

## **2C. BEA Manufacturing Industry Classification**

In order to relate trade flows to U.S. direct investment in foreign countries, a concordance was created between the SITC and the industry classification used in the outward investment surveys of the Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce. That BEA industry classification is itself based on the U.S. SIC. The concordance was constructed using UN concordances between the SITC and the ISIC, commodity listings for the U.S. SIC (U.S. Bureau of the Census, 1987), and the concordance between the BEA classification and the U.S. SIC and ISI (International Surveys Industry) classifications (U.S. Department of Commerce, 1992). A list of the 34 BEA manufacturing industries we have used, matched to the 1987 SIC and ISI codes, is given in Table 1 (a 35th category, with a missing value for the BEA code, is used for all non-manufactured products). The concordance between the 34 manufacturing industry classification and the SITC, Revision 2, is provided in Appendix D.

**Table 1: Comparison of BEA 34-Industry Code and U.S. 1987 SIC and ISI Codes**

	<b>34 INDUSTRY CODE</b>	<b>ISI CODE</b>	<b>1987 SIC CODE</b>
1	Grain, Mill and Bakery Products	204, 205	204, 205
2	Beverages	208	208
3	Tobacco Products	210	21
4	Other Food and Kindred Products	201, 202, 203, 209	201, 202, 203, 206, 207, 209
5	Apparel and Other Textile Products	220, 230	22, 23
6	Leather and Leather Products	310	31
7	Pulp, Paper, and Board Mills	262	261, 262, 263
8	Other Paper and Allied Products	265	265, 267
9	Printing and Publishing	271, 272, 275	271, 272, 273, 274, 275, 276, 277, 278, 279
10	Drugs	283	283
11	Soaps, Cleaners, and Toilet Goods	284	284
12	Agricultural Chemicals	287	287
13	Industrial Chemicals and Synthetics	281	281, 282, 286
14	Other Chemicals	289	285, 289
15	Rubber Products	305	301, 302, 305, 306
16	Miscellaneous Plastic Products	308	308
17	Primary Metal Industries, Ferrous	331	331, 332, 339
18	Primary Metal Industries, Nonferrous	335	333, 334, 335, 336
19	Fabricated Metal Products	341, 342, 343, 349	341, 342, 343, 344, 345, 346, 347, 348, 349
20	Farm and Garden Machinery	352	352
21	Construction, Mining, etc	353	353
22	Computer and Office Equipment	357	357
23	Other Nonelectric Machinery	351, 354, 355, 356, 358, 359	351, 354, 355, 356, 358, 359
24	Household Appliances	363	363
25	Household Audio and Video, etc.	366	365, 366
26	Electronic Components	367	367
27	Other Electrical Machinery	369	361, 362, 364, 369
28	Motor Vehicles and Equipment	371	371
29	Other Transportation Equipment	379	372, 373, 374, 375, 376, 379
30	Lumber, Wood, Furniture, etc.	240, 250	24, 25
31	Glass Products	321	321, 322, 323
32	Stone, Clay, Concrete, Gypsum, etc.	329	324, 325, 326, 327, 328, 329
33	Instruments and Apparatus	381, 384, 386	381, 382, 384, 385, 386, 387
34	Other Manufacturing	390	39
.	Non-manufacturing		

Source: US Department of Commerce (1992)

### 3. Description of the COMTAP Database<sup>2</sup>

The OECD Compatible Trade and Production (COMTAP) database was originally developed at the World Bank under the overall direction of Jean Waelbroeck of the Université Libre de Bruxelles. It contains data for twenty-two OECD countries (Australia, Austria, Belgium-Luxembourg, Canada, Denmark, Finland, France, West Germany, Greece, Ireland, Italy, Japan, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Turkey, United Kingdom, United States, and former Yugoslavia), over the years 1970-1985.

Production data is provided at the four-digit ISIC, Revision 2, level for thirteen countries (Australia, Belgium-Luxembourg, Canada, Finland, France, West Germany, Italy, Japan, Netherlands, Norway, Sweden, United Kingdom, and the United States), and at the three-digit ISIC level for the other countries. Only manufactured goods, having ISIC code beginning with 3, are included. A list of the four-digit ISIC manufactured goods is provided in Appendix E. The production data usually refers to the value of sales or deliveries, but for certain countries (France, Italy, Sweden, and Germany in some industries) the alternative concept of gross output is used, which includes the accumulation of goods into inventory. The production data were obtained by converting industrial census statistics from the national industrial classifications in which they are originally compiled into the ISIC. This conversion involves a number of imputations and *ad hoc* adjustments, creating some error in the magnitudes. For example, countries often omit small establishments from the national census, but with varying definitions of “small” across countries; alternatively, data might not be available due to confidentiality reasons. For these reasons, the production data contains some error, which would be more serious at the most disaggregate (four-digit) level.<sup>3</sup>

The trade data used to construct the COMTAP database was initially on the SITC classification, and this was converted to the ISIC, Revision 2 classification. In cases where a single SITC code corresponds to several ISIC categories, some weights had to be applied in order to allocate the SITC trade data across the different ISIC industries. The weights used in the conversion were those from the industrial composition of trade for the Common Market

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<sup>2</sup> Much of the information used in this section is taken from the documentation provided by the OECD with the COMTAP database, and in some instances, is quoted directly from that documentation.

<sup>3</sup> The production data reported at higher levels of aggregation (such as two-digit) is not the simple summation of production data from lower levels of aggregation (such as three or four-digit). Thus, the data at higher-levels of aggregation has apparently been adjusted to reflect measurement errors at the lower levels.

countries in 1975. Thus, this fixed set of weights was applied across all years and countries (even for the non-OECD trading partners) when a single SITC code corresponded to several ISIC industries. Use of these fixed weights will introduce some error into the trade data.<sup>4</sup> In addition, we note that the COMTAP trade data contains some missing values, which appear as an import or export value of zero. For example, there are zero imports listed by the U.S. from Taiwan in 1972 in all ISIC categories within the COMTAP data, whereas in fact, imports occurred in that year. The prevalence of such missing values is unknown.

The trade data contains bilateral trade flows between the twenty-two OECD countries, and all of their trading partners. All values are reported in thousands of U.S. dollars, and are converted from national currencies using current exchange rates. Separate values are reported for the bilateral imports into and the bilateral exports from each OECD country. This means that the exports reported by one country can differ from the imports reported by its trading partner. An example of this is for exports from the United States to Canada, where it is well known that the reported U.S. exports omit a substantial part of the overland trade, so that the reported Canadian imports are larger and more accurate. This illustrates the general point that when two values occur for the same trade flow, it is more reliable to use the *importer's* value. The situation may be more complicated when goods are transshipped through a country, however, and no attempt to resolve the differences between reported trade flows of the importer and exporter is made within the COMTAP data.

The trading partners for each OECD country were classified in the COMTAP data according to an OECD coding system, and these country codes were converted to the six-digit Standard Classification of Customs Areas and Territories prior to including on the CD-ROM. Thus, the country codes used in the COMTAP trade data on the CD-ROM are identical to those used in the WTDB database, and are listed in Appendix B. In order to make the conversion from the initial OECD country codes to the Standard Classification of Customs Areas and Territories, some small regions were grouped within the countries listed in Appendix B, as follows:

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<sup>4</sup> A rough concordance between the 2-digit SITC, Revision 2, and the 3-digit ISIC, Revision 2, is provided by Maskus (1991, p. 42), based on trade weights for the United States in 1984. Another concordance between the 4-digit SITC, Revision 2, and the 4-digit U.S. SIC, 1977 basis, has been constructed by Pamela Lowery, Illinois Wesleyan University, and is available from the website of Jon Haveman, Purdue University, at <http://intrepid.mgmt.purdue.edu/Jon/Data/TradeConcordances.html>.

<u>Country</u>	<u>Code</u>	<u>Includes the regions:</u>
South Africa	117100	Botswana, Lesotho, Swaziland
Guinea-Bissau	166240	Sao Tome Principe
St. Kitts Nev.	356580	Antigua
U.S. Virgin Is.	368962	Introduced into the COMTAP database but not the WTDB
Israel	413760	Gaza
Vietnam	487040	North Vietnam and South Vietnam
Kiribati	722960	Nauru
Samoa	728882	Introduced into the COMTAP database but not the WTDB
Other Oceania	728960	Guam

These country-groupings in the COMTAP data on the CD-ROM are *in addition to* the groupings already listed in Appendix B, which apply to both the WTDB and COMTAP data.

#### 4. Comparison with other Data Sources

In order to compare the WTDB and the COMTAP databases with alternative sources, we aggregate across commodities to obtain the total bilateral value of trade between trading partners. These total bilateral trade values for the WTDB are reported in a separate file in the database, and may be useful to researchers estimating gravity equations, for example. The total bilateral values are reported within the COMTAP trade files under the ISIC category “3---”, which refers to all manufactured goods. We shall compare these values to U.S. imports from various source countries as obtained from Feenstra (1996) and the associated CD-ROM “NBER Trade Database, Disk 1: U.S. Imports, 1972-1994.” Those U.S. import values are constructed from data collected at the border by the U.S. Bureau of the Census.

In Table 2, we report the total value of U.S. merchandise imports from all countries, and from China and Hong Kong, over the years 1972-1992.<sup>5</sup> The first three columns are obtained from the Statistics Canada WTDB, and the last four columns from Feenstra (1996). Since the WTDB reconciles the differing values of trade reported by importers and exporters, it can be expected that these figures will tend to lie between the value of trade inclusive of transportation and insurance costs (i.e. the *cost including freight*, or c.i.f. value, as reported by importers), and the value of trade exclusive of these charges (i.e. the *free-on-board*, or f.o.b. value, as reported

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<sup>5</sup> Since the U.S. Census import data does not begin until 1972, we do not list data from the earlier years of the WTDB or COMTAP databases in Tables 2 and 3.

**Table 2: Comparison of U.S. Merchandise Imports (\$ million)**

<u>Year</u>	<i>From Statistics Canada WTDB</i>			<i>From Feenstra (1996), U.S. Census</i>			
	<u>Total Imports</u>	<u>Source Country:</u> <u>China</u> <u>Hong Kong</u>		<u>Total Imports:</u> <u>Customs</u> <u>CIF</u>		<u>Source Country:</u> <sup>a</sup> <u>China</u> <u>Hong Kong</u>	
1972	56,931.2	33.5	1,211.7	55,278.1	na	31.1	1,237.1
1973	71,563.4	66.9	1,432.6	68,658.9	na	60.8	1,423.0
1974	101,062.2	116.2	1,600.5	100,125.8	107,111.5	105.7	1,611.3
1975	96,326.9	159.9	1,660.3	96,477.2	102,954.9	156.5	1,569.9
1976	120,381.4	203.8	2,544.3	121,043.2	128,792.9	194.6	2,391.0
1977	150,896.7	204.8	3,201.6	146,957.5	155,956.2	217.8	3,123.5
1978	181,378.1	356.3	3,793.4	172,912.2	182,742.7	348.7	3,747.3
1979	215,149.5	652.3	4,488.8	205,850.4	217,597.1	608.1	4,269.8
1980	249,720.1	1,161.0	5,497.9	239,941.9	251,491.2	1,143.4	4,982.5
1981	266,989.1	2,062.3	6,222.2	258,961.9	271,218.4	1,830.0	5,709.7
1982	249,129.4	2,502.4	6,428.6	242,338.9	253,185.3	2,430.5	5,884.8
1983	272,922.4	2,476.7	7,290.9	256,674.5	268,451.9	2,447.7	6,821.4
1984	336,929.8	2,369.3	9,694.9	322,975.9	338,001.4	3,355.0	8,860.4
1985	353,841.3	2,386.1	9,860.5	343,549.8	359,785.3	4,225.5	8,990.8
1986	380,198.1	2,865.0	11,738.9	368,652.5	385,625.5	5,133.1	9,447.4
1987	416,975.3	3,127.6	14,099.5	402,065.9	420,069.3	6,854.0	10,467.6
1988	441,463.9	3,516.6	15,873.8	437,130.3	455,617.1	9,167.3	10,749.7
1989	477,555.2	4,709.8	18,871.0	468,012.0	487,558.4	12,762.0	10,164.9
1990	510,870.1	5,760.5	20,162.2	490,553.7	511,734.9	16,185.8	9,858.6
1991	500,943.4	6,799.5	22,653.7	483,027.9	503,588.7	20,176.1	9,643.2
1992	537,965.6	9,463.0	27,842.0	525,091.4	546,036.7	27,240.6	10,144.9

Notes na Not available

<sup>a</sup> The customs value of imports is used for 1972-76, and the CIF value for 1977-92.

by exporters). This is confirmed by comparing column one with columns four and five, where the latter are the *customs value* of U.S. imports (which excludes transportation and insurance costs, similar to the f.o.b.) and the c.i.f. value, respectively. In most years, the total value of U.S. imports from the WTDB lies between the customs and c.i.f. value of imports from the U.S. Census data, though is not generally midway between these: the WTDB values are very close to either the customs or c.i.f. values in some years.

In the next columns, we report the total value of U.S. imports from China and Hong Kong, respectively, from the WTDB and U.S. Census data. Up until 1983 the import values are reasonably close, though the WTDB imports value from Hong Kong are somewhat higher than those from the Census data in some years. Beginning in 1984, however, the U.S. Census data shows a rapid increase in the value of imports from China, that is not reflected in the WTDB data. As the U.S. Census imports from China grow the imports from Hong Kong remain roughly constant, whereas in the WTDB data the imports from Hong Kong grow more rapidly than from China. By 1992, the Census data shows imports of about \$27 billion from China and \$10 billion from Hong Kong, but the WTDB data shows \$9.5 billion in imports from China and about \$28 billion from Hong Kong: the patterns in the two datasets are reversed, though the *sum* of U.S. imports from China and Hong Kong (not shown in Table 2) is quite close in all years.

The explanation for these differing magnitudes lies in the role of Hong Kong as a transshipment center for many goods from China, as discussed by Fung (1996). Chinese trade statistics report these goods as exports to Hong Kong, so that the only exports in the U.S. are those goods which are shipped directly: these totaled \$8.6 billion in 1992 according to Chinese sources (Fung, 1996, p. 3), which is of the same general magnitude as that reported in the WTDB data in the second column of Table 2. In contrast, the U.S. trade statistics treat the full value of Chinese goods transshipped through Hong Kong as Chinese exports, leading to the very high import values in column six. The economically correct magnitude of Chinese exports to the U.S. would lie between these two measures, and would attribute the value-added of goods transshipped through Hong Kong (i.e. the transportation and marketing services) as exports of that country, whereas the value of goods when they leave China would be counted as an export from there to the final country of destination. Fung (1996) provides some calculations of this type for the overall value of U.S.-China trade, but not such computations have been made at a



disaggregate level. We also do not attempt to do so here, but simply wish to highlight that the U.S. imports from China reported in the WTDB data reflect the *exporting country's* valuation, in contrast to the general rule of using the importer's value as more reliable. We are uncertain why this general rule was not followed in this instance, but have suggested in our discussion of section 2B that the procedures used by Statistics Canada to adjust for trade through entrepôt countries are not well-suited to the China-Hong Kong case.

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**Table 3: Comparison of U.S. Manufactured Imports (\$ million)**

<u>Year</u>	<i>From COMTAP Database</i>			<i>From Feenstra (1996), U.S. Census</i>		
	<u>Total Imports</u>	<u>Source Country: China</u>	<u>Hong Kong</u>	<u>Total CIF Imports</u>	<u>Source Country: China</u>	<u>Hong Kong</u>
1972	46,567.8	23.4	1,110.2	45,026.1 <sup>a</sup>	12.9	1,145.0
1973	57,255.1	48.2	1,298.3	54,940.7 <sup>a</sup>	37.4	1,320.5
1974	75,374.6	88.3	1,497.3	77,808.0	77.6	1,639.3
1975	67,788.1	131.0	1,447.0	70,054.9	131.7	1,622.2
1976	83,751.3	158.7	2,238.0	84,871.6	142.3	2,468.8
1977	99,825.5	155.3	2,720.0	100,807.9	140.8	2,972.4
1978	130,706.0	295.6	3,571.2	126,493.3	256.1	3,573.2
1979	148,380.9	466.9	4,083.9	143,726.5	399.4	4,037.8
1980	162,219.0	970.2	4,808.8	158,572.2	912.9	4,763.8
1981	181,391.3	1,675.6	5,531.1	179,424.6	1,593.3	5,504.9
1982	180,878.9	2,103.7	5,691.3	178,290.4	2,033.8	5,704.5
1983	204,567.5	2,229.8	6,628.6	202,787.1	2,191.8	6,649.0
1984	272,852.8	2,894.5	8,750.9	269,348.0	2,849.2	8,688.9
1985	296,568.0	3,155.6	8,774.6	293,571.2	3,168.6	8,748.1

Notes na Not available

<sup>a</sup> In 1972-73 the customs value of imports is used, because the CIF value is not available.

The COMTAP database, which contains trade data for manufactured goods only, can also be compared to the U.S. import values from Feenstra (1996). In Table 3, we report the total value of U.S. manufactured imports from all countries, and from China and Hong Kong, over the years 1972-1985. The first three columns are total imports for ISIC industries beginning with the digit 3, obtained from the COMTAP database, and the last three columns are total c.i.f. imports over all U.S. SIC industries beginning with the digits 2 or 3, based on U.S. Census data in Feenstra (1996). It is apparent that the total import values are quite close in the two databases, when comparing either imports from all countries or from China and Hong Kong individually. The reason for this is that the COMTAP data includes the trade reported by both OECD importers and OECD exporters, and those values listed in Table 3 are provided by the United States as importer. It can be expected that these should be very close to the data collected by the U.S. Census. There is no possibility of using the China or Hong Kong export data to the U.S. as a measure of U.S. imports, as occurred in the WTDB data, since these export figures for non-OECD countries do not even appear in the COMTAP database.

## **5. Technical Information**

All of the data, concordances, and documentation in the database are stored as ASCII files. The data and concordances have the extension .ASC, and in all cases are logical record files. For each datafile (or group of files) and each concordance, there is documentation with the identical name but the extension .TXT; this documentation is the same as that found on the following pages. The ASCII datafiles are kept to a maximum of 10 megabytes in size, and can be read with any text editor capable of handling large files.

The complete set of files included on the CD-ROM is shown in Table 4. The Statistics Canada WTDB database is provided in complete detail annually, and is also aggregated according to total bilateral trade between countries, and by the 34 BEA manufacturing industries. The COMTAP data is reported by OECD countries at the 4-digit ISIC level, and the trade data is also aggregated according to the 3-digit ISIC. In addition to the WTDB and COMTAP databases, there is information on country's factor endowments, tariff and non-tariff barriers for selected countries, and input-output tables for the United Kingdom and the United States.

**Table 4: Files on the CD-ROM**

<u>Directory and File</u>	<u>Description</u>
<b>WTDB data, by SITC, Revision 2, 1970-1992:</b>	
WTDB70_1.ASC, WTDB70_2.ASC, WTDB70_3.ASC, .....	1970 WTDB data by SITC, Revision 2 (same for 1971-1992 years)
WT_BILAT.ASC	1970-1992 bilateral WTDB aggregates
WTDB.TXT	Documentation for WTDB data
<b>WTDB data, by 34 BEA Manufacturing Industries, 1970-1992:</b>	
WBEA70.ASC, ... ,WBEA92.ASC	WTDB data concorded to BEA industries
WBEA_IMP.ASC, WBEA_EXP.ASC	Multilateral imports and exports by BEA
WBEA.TXT	Documentation for WBEA data
<b>COMTAP data, by four-digit ISIC, Revision 2, 1970-1985:</b>	
COMM_*.ASC, COMX_*.ASC	COMTAP imports and exports by country *
COMPROD.ASC	COMTAP production, OECD countries
COMTAP4.TXT	Documentation for 4-digit COMTAP data
<b>COMTAP data, by three-digit ISIC, Revision 2, 1970-1985:</b>	
COMIMP.ASC	COMTAP bilateral imports, OECD countries
COMEXP.ASC	COMTAP bilateral exports, OECD countries
COMTAP3.TXT	Documentation for 3-digit COMTAP data
<b>Country Factor Endowments, 1970-1990:</b>	
EN_OECD.ASC, EN_OECD.TXT	Endowments for eleven OECD countries
EN_WORLD.ASC, EN_WORLD.TXT	Endow. for all Penn. World Tables countries
<b>Input-Output Tables:</b>	
IO1_*.ASC	IO tables for the UK and US, 80 sectors
IO2_*.ASC	IO tables for the UK and US, 20 sectors
IO_TABLE.TXT	Documentation for IO tables
<b>Tariffs and Non-tariff barriers:</b>	
NTB_OECD.ASC, NTB_OECD.TXT	Non-tariff barriers for OECD countries, 1983
T_FIN_*.ASC, T_INT_*.ASC, T_README.TXT	Tariffs and NTBs over final (FIN) goods and intermediates (INT) for country denoted by *
<b>Other:</b>	
COUNTRY.TXT	List of country names and codes
ISIC.TXT	Industry names for ISIC, Revision 2
WT_SITC.TXT	Product names for WTDB SITC, Revision 2
SITC_BEA.TXT	Concordance from SITC, Rev. 2, to BEA

### 5A. Statistics Canada World Trade Database (WTDB\*.ASC and WT\_BILAT.ASC)

The bilateral values of trade between countries of the world, organized according to a modified 4-digit SITC basis, are available from Statistics Canada, World Trade Database (WTDB). This database is developed from trade data initially reported to the United Nations. The WTDB has been purchased by the National Bureau of Research on a corporate license, which allows distribution to other secondary users, but prohibits further redistribution.

The files WTDBYR\_1.ASC, WTDBYR\_2.ASC, and WTDBYR\_3.ASC contain the WTDB data, where YR is a 2-digit number in the range for the range 70,71,...,92. Each year of data is organized into three files, with \_1, \_2, \_3, appended onto the file names, so that each file is not too large. The files appended with \_1 contain all the SITC commodities beginning with 0,1,2, or 3; the files appended with \_2 contain all the SITC commodities beginning with 4,5, or 6; and the files appended with \_3 contain all the SITC commodities beginning with 7,8, or 9.

#### *Record Layout WTDB\*.ASC:*

columns 1-6	-	Importing country code (6-digit; see Appendix B)
columns 8-11	-	SITC, Revision 2 code (see Appendixes C and D)
columns 13-18	-	Exporting country code (see Appendix B)
columns 20-27	-	Value of trade (thousands of U.S. dollars)

#### *Special considerations:*

Note that 4-digit codes ending in "A" are an aggregate of all the 4-digit categories within that 3-digit code, while 4-digit codes ending in "X" are an incomplete collection of 4-digit categories within that 3-digit code; see section 2B of this paper.

#### *Related Files:*

The total trade (over all SITC commodities) between each pair of countries in each year has been computed by aggregating the trade values in WTDB\*.ASC, and is contained in the file WT\_BILAT.ASC, which is organized as follows:

#### *Record Layout for WT\_BILAT.ASC:*

columns 1-6	-	Importing country code (6-digit; see Appendix B)
columns 8-13	-	Exporting country code (see Appendix B)
columns 15-24	-	Value of trade (thousands of U.S. dollars)
columns 26-27	-	Year

**5B. World Trade Database Concorded to BEA Industries (WBEA\*.ASC)**

The bilateral values of trade between countries in the World Trade Database (WTDB), is concorded to a 34 manufacturing industries classification of the Bureau of Economic Analysis (BEA) and reported in the files WBEAYR.ASC, where YR is a 2-digit number in the range for the range 70,71,....,92.

*Record Layout for WBEA\*.ASC:*

columns 1-6 - Importing country code (6-digit; see Appendix B)  
 columns 8-9 - BEA Classification (see Table 1)  
 columns 11-16 - Exporting country code (see Appendix B)  
 columns 18-25 - Value of trade (thousands of U.S. dollars)

*Missing values in BEA categories:*

The 34 manufacturing industries classification used by the BEA is described in section 2D. These files also include a thirty-fifth category, which has a missing value (a period) in the BEA field, for all those SITC categories in the original WTDB files that do not correspond to manufacturing industries. The correspondence between the SITC, Revision 2 industries in the WTDB files and the BEA industries is provided in Appendix D, and also in the files WT\_SITC.TXT and SITC\_BEA.TXT, which are self-explanatory.

*Related Files:*

The total multilateral trade (over all source or destination countries) for each BEA manufacturing industry has been computed by aggregating the trade values in WBEA\*.ASC, and is contained in the files WBEA\_IMP.ASC and WBEA\_EXP.ASC, organized as follows:

*Record Layout for WBEA\_IMP.ASC:*

columns 1-6 - Importing country code (6-digit; see Appendix B)  
 columns 8-9 - BEA industry code (1-34) or missing value (a period)  
 columns 11-20 - Value of imports (thousands of U.S. dollars)  
 columns 22-23 - Year

*Record Layout for WBEA\_EXP.ASC:*

columns 1-6 - Exporting country code (6-digit; see Appendix B)  
 columns 8-9 - BEA industry code (1-34) or missing value (a period)  
 columns 11-20 - Value of exports (thousands of U.S. dollars)  
 columns 22-23 - Year

**5C. Compatible Trade and Production (COMTAP) Database, 4-digit ISIC, 1970-1985  
(COMPROD.ASC, COMM\_\*.ASC, and COMX\_\*.ASC)**

*Contributed by:* James Harrigan  
International Research  
Federal Reserve Bank of New York  
33 Liberty Street  
New York, NY 10045  
E-mail: james.harrigan@frbny.sprint.com

The files COMPROD.ASC, COMM\_\*.ASC, and COMX\_\*.ASC contain production, import and export data for manufactured goods from 22 OECD countries (denoted by \*, and listed below) over the years 1970-1985. The trade data are bilateral imports and exports between the 22 countries and each of their partners (using the UN country codes found in Appendix B). These data were collected under the COMTAP (Compatible Trade and Production) project of the Organization for Economic Cooperation and Development, and are included here with the permission of that agency. Both the production and trade data are organized according to the International Standard Industrial Classification (ISIC), where manufactured goods begin with the digit 3, and the one-digit up to four-digit classifications are reported in the files.

It should be noted that the COMTAP trade data contains some missing values, which can appear as an import or export value of zero. For example, there are zero imports listed by the U.S. from Taiwan in 1972 in all ISIC categories within the COMTAP data, whereas in fact, imports occurred in that year. The prevalence of such missing values is unknown.

This data can be referenced to the OECD and any of the following papers:

Harrigan, James, 1996, "Openness to Trade in Manufactures in the OECD", *Journal of International Economics*, 40(1/2), February, 23-40.

Harrigan, James, 1995, "Factor Endowments & The International Location of Production: Econometric Evidence for the OECD, 1970-1985", *Journal of International Economics*, 39 (1/2), August, 123-141.

Harrigan, James, 1995, "The Volume of Trade in Differentiated Intermediate Goods: Theory and Evidence", *The Review of Economics and Statistics*, 77(2), May, 283-293.

Harrigan, James, 1993, "OECD Imports and Trade Barriers in 1983", *Journal of International Economics*, 35(1/2), August, 95-111.

*OECD Country List:*

The COMM\_\*.ASC and COMX\_\*.ASC files use the following 22 country abbreviations for \*: Australia (AUS), Austria (AUT), Belgium-Luxembourg (BLX), Denmark (DNK), Canada (CAN), Finland (FIN), France (FRA), Greece (GRC), Ireland (IRE), West Germany (GER), Italy (ITA), Japan (JPN), New Zealand (NZL), The Netherlands (NTH), Norway (NOR), Portugal (PRT), Spain (SPN), Sweden (SWE), Turkey (TKY), United Kingdom (UKG), United States (USA), Yugoslavia (YUG).

The COMPROD.ASC file contains information on these 22 OECD countries, using the same three-digit country abbreviations in that file.

Within the COMM\_\*.ASC and COMX\_\*.ASC files, the country codes used are the six-digit United Nations codes, provided in Appendix B.

*ISIC Codes:*

Thirteen countries have production data at the 4-digit ISIC level: Australia (AUS), Belgium (BLX), Canada (CAN), Finland (FIN), France (FRA), West Germany (GER), Italy (ITA), Japan (JPN), The Netherlands (NTH), Norway (NOR), Sweden (SWE), United Kingdom (UKG), and United States (USA). The remaining countries have data at the 3-digit ISIC level.

Within the COMPROD.ASC, COMM\_\*.ASC and COMX\_\*.ASC files, ISIC codes with less than four digits have a hyphen appended to the end. For example, the total of manufacturing goods is indicated by ISIC code "3---". The complete list of 4-digit codes and the associated industries are provided in Appendix E, and a list of the 3-digit industries is provided in Table 5 of the next sub-section (p. 24).

*Record Layout for COMPROD.ASC:*

Each record contains the following data:

columns 1-3 - Country code (OECD only, see list above)  
 columns 5-8 - ISIC code (1, 2, 3 or 4 digit ISIC code, see Appendix E)  
 columns 10-21 - Gross output in thousands of US dollars  
 columns 23-24 - Year (two-digit code from 70-85)

*Size:* COMPROD.ASC contains 30229 records.

*Record Layout for COMM\_\*.ASC:*

In this file, the *importing* country with the abbreviation \* has reported the trade data. Each record contains the following information:

columns 1-6 - Importing country code (see Appendix B)  
 columns 8-11 - ISIC code (see Appendix E)  
 columns 13-18 - Exporting country code (see Appendix B)  
 columns 20-21 - Year (the number 70)  
 columns 23-32 - Imports in thousands of U.S. dollars, 1970  
 columns 34-35 - Year (the number 71)  
 columns 37-46 - Imports in thousands of U.S. dollars, 1971  
 columns 48-49 - Year (the number 72)  
 columns 51-60 - Imports in thousands of U.S. dollars, 1972  
 columns 62-63 - Year (the number 73)  
 columns 65-74 - Imports in thousands of U.S. dollars, 1973  
 columns 76-77 - Year (the number 74)  
 columns 79-88 - Imports in thousands of U.S. dollars, 1974  
 columns 90-91 - Year (the number 75)  
 columns 93-102 - Imports in thousands of U.S. dollars, 1975  
 columns 104-105 - Year (the number 76)  
 columns 107-116 - Imports in thousands of U.S. dollars, 1976  
 columns 118-119 - Year (the number 77)  
 columns 121-130 - Imports in thousands of U.S. dollars, 1977  
 columns 132-133 - Year (the number 78)  
 columns 135-144 - Imports in thousands of U.S. dollars, 1978  
 columns 146-147 - Year (the number 79)  
 columns 149-158 - Imports in thousands of U.S. dollars, 1979  
 columns 160-161 - Year (the number 80)  
 columns 163-172 - Imports in thousands of U.S. dollars, 1980  
 columns 174-175 - Year (the number 81)  
 columns 177-186 - Imports in thousands of U.S. dollars, 1981  
 columns 188-189 - Year (the number 82)  
 columns 191-200 - Imports in thousands of U.S. dollars, 1982  
 columns 202-203 - Year (the number 83)  
 columns 205-214 - Imports in thousands of U.S. dollars, 1983  
 columns 216-217 - Year (the number 84)  
 columns 219-228 - Imports in thousands of U.S. dollars, 1984  
 columns 230-231 - Year (the number 85)  
 columns 233-242 - Imports in thousands of U.S. dollars, 1985

*Size:* Each file COMM\_\*.ASC is between 2 and 4 megabytes.



*Record Layout for COMX\_\*.ASC:*

In this file, the *exporting* country with the abbreviation \* has reported the trade data. Each record contains the following information:

columns 1-6 - Exporting country code (see Appendix B)  
 columns 8-11 - ISIC code (see Appendix E)  
 columns 13-18 - Importing country code (see Appendix B)  
 columns 20-21 - Year (the number 70)  
 columns 23-32 - Exports in thousands of U.S. dollars, 1970  
 columns 34-35 - Year (the number 71)  
 columns 37-46 - Exports in thousands of U.S. dollars, 1971  
 columns 48-49 - Year (the number 72)  
 columns 51-60 - Exports in thousands of U.S. dollars, 1972  
 columns 62-63 - Year (the number 73)  
 columns 65-74 - Exports in thousands of U.S. dollars, 1973  
 columns 76-77 - Year (the number 74)  
 columns 79-88 - Exports in thousands of U.S. dollars, 1974  
 columns 90-91 - Year (the number 75)  
 columns 93-102 - Exports in thousands of U.S. dollars, 1975  
 columns 104-105 - Year (the number 76)  
 columns 107-116 - Exports in thousands of U.S. dollars, 1976  
 columns 118-119 - Year (the number 77)  
 columns 121-130 - Exports in thousands of U.S. dollars, 1977  
 columns 132-133 - Year (the number 78)  
 columns 135-144 - Exports in thousands of U.S. dollars, 1978  
 columns 146-147 - Year (the number 79)  
 columns 149-158 - Exports in thousands of U.S. dollars, 1979  
 columns 160-161 - Year (the number 80)  
 columns 163-172 - Exports in thousands of U.S. dollars, 1980  
 columns 174-175 - Year (the number 81)  
 columns 177-186 - Exports in thousands of U.S. dollars, 1981  
 columns 188-189 - Year (the number 82)  
 columns 191-200 - Exports in thousands of U.S. dollars, 1982  
 columns 202-203 - Year (the number 83)  
 columns 205-214 - Exports in thousands of U.S. dollars, 1983  
 columns 216-217 - Year (the number 84)  
 columns 219-228 - Exports in thousands of U.S. dollars, 1984  
 columns 230-231 - Year (the number 85)  
 columns 233-242 - Exports in thousands of U.S. dollars, 1985

*Size:* Each file COMX\_\*.ASC is between 2 and 5 megabytes.

## **5D. COMTAP Data by 3-digit ISIC, 1970-1985 (COMIMP.ASC, COMEXP.ASC)**

The COMTAP bilateral trade and production data were aggregated according to 26 three-digit ISIC industries, as shown in Table 5. The imports, export and production data are provided for fourteen OECD countries (see list below) and their twenty-two OECD trading partners.

The file COMIMP.ASC contains, for each of the fourteen OECD countries, the value of imports from itself and each of the twenty-two partner countries (plus rest of world ) in a given year and 3-digit ISIC industry. “Own” imports are by definition equal to “own” exports, and are computed as the difference between a country’s value of production and the total value of its exports to the world. The last two columns of this file contain a country's total imports from the world (not including “own” imports) and the value of its apparent consumption (equal to production plus total imports minus total exports). The file COMEMP.ASC contains, for each of the fourteen OECD countries, the value of exports to itself and twenty-two partner countries (plus rest of world) in a given year and 3-digit ISIC industry. The last two columns of this file contain a country's total exports to the world and the value of its production.

### *OECD Country List:*

The COMIMP.ASC and COMEXP.ASC files use the following 14 country abbreviations: Australia (AUS), Canada (CAN), Finland (FIN), France (FRA), Greece (GRC), West Germany (GER), Italy (ITA), Japan (JPN), New Zealand (NZL), Spain (SPN), Sweden (SWE), United Kingdom (UKG), United States (USA), Yugoslavia (YUG).

### *Special Considerations:*

The export figures for each country included re-exports. This causes the “own” exports and apparent consumption figures to be understated. For some countries, the inclusion of re-exports leads to the result that exports exceed production, so that “own” exports are negative. This problem was acute for countries such as the Netherlands and Belgium and as a result these countries were deleted as reporting countries.<sup>6</sup> ISIC 390 (Miscellaneous Manufactures) was not included in the COMTAP production database but was included in the export and import data. For consistency, the files COMIMP.ASC and COMEXP.ASC exclude ISIC 390.

---

<sup>6</sup> This problem also caused the value of exports to exceed domestic production for France in ISIC 385 (in 1985), for Italy in ISIC 324 (in 1978, 1979, and 1982-85), and Sweden in ISIC 323 (in 1985).

**Table 5: Three-Digit ISIC Manufacturing Industries**

<b>ISIC</b>	<b>Description</b>
311/312 <sup>a</sup>	Food Products and Food Products, Nes
313	Beverages
314	Tobacco
321	Textiles
322	Clothing
323	Leather Goods Nes
324	Leather Footwear
331	Wood, Wood and Cork, Except Furniture
332	Furniture, Fixtures except Primary Metal
341	Paper and Paper Products
342	Printing Publishing and Allied Industries
351	Industrial Chemicals
352	Other Chemical Products
353 <sup>b</sup>	Petroleum Refineries
354 <sup>b</sup>	Misc. Products of Petroleum and Coal
355	Rubber Products
356	Plastic Products, Nes
361	Pottery, China And Earthenware
362	Glass and Glass Products
369	Other Non-Metallic Mineral Products
371	Iron and Steel Industries
372	Non-Ferrous Metal Basic Industries
381	Fabricated Metal Products, except Machinery
382	Non-Electrical Machinery
383	Electrical Machinery, Appliances
384	Transport Equipment
385	Professional, Scientific and Controlling Equipment
390 <sup>c</sup>	Miscellaneous Manufactures

Notes:

a The ISIC number 311 is used in COMIMP.ASC, COMEXP.ASC, and NTB\_OECD.ASC for the combined category 311/312.

b The ISIC number 353 is used in COMIMP.ASC and COMEXP.ASC for the combined category 353/354, but in NTB\_OECD.ASC these two categories are kept separate.

c ISIC 390 is omitted from the files COMIMP.ASC and COMEXP.ASC, but used in NTB\_OECD.ASC.

*Record Layout:*

Each record of COMIMP.ASC and COMEXP.ASC consists of the following variables:

columns 1-2	Year of data (two-digit number 70 through 85)
columns 4-6	Three-digit ISIC code (see Table 5)
columns 8-10	Abbreviated name of reporting COUNTRY (see OECD Country list above)
columns 12-20	COUNTRY'S imports from (or exports to) Australia, thousands of \$
columns 21-29	COUNTRY'S imports from (or exports to) Canada, thousands of \$
columns 30-38	COUNTRY'S imports from (or exports to) Finland, thousands of \$
columns 39-47	COUNTRY'S imports from (or exports to) France, thousands of \$
columns 48-56	COUNTRY'S imports from (or exports to) Germany, thousands of \$
columns 57-65	COUNTRY'S imports from (or exports to) Greece, thousands of \$
columns 66-74	COUNTRY'S imports from (or exports to) Italy, thousands of \$
columns 75-84	COUNTRY'S imports from (or exports to) Japan, thousands of \$
columns 85-93	COUNTRY'S imports from (or exports to) New Zealand, thousands of \$
columns 94-102	COUNTRY'S imports from (or exports to) Spain, thousands of \$
columns 103-111	COUNTRY'S imports from (or exports to) Sweden, thousands of \$
columns 112-120	COUNTRY'S imports from (or exports to) the UK, thousands of \$
columns 121-130	COUNTRY'S imports from (or exports to) the US, thousands of \$
columns 131-139	COUNTRY'S imports from (or exports to) Yugoslavia, thousands of \$
columns 140-148	COUNTRY'S imports from (or exports to) Austria, thousands of \$
columns 149-157	COUNTRY'S imports from (or exports to) Belgium, thousands of \$
columns 158-166	COUNTRY'S imports from (or exports to) Denmark, thousands of \$
columns 167-175	COUNTRY'S imports from (or exports to) Ireland, thousands of \$
columns 176-184	COUNTRY'S imports from (or exports to) Netherlands, thousands of \$
columns 185-193	COUNTRY'S imports from (or exports to) Norway, thousands of \$
columns 194-202	COUNTRY'S imports from (or exports to) Portugal, thousands of \$
columns 203-211	COUNTRY'S imports from (or exports to) Turkey, thousands of \$
columns 212-220	COUNTRY'S imports from (or exports to) Rest of World, thousands of \$
columns 221-230	COUNTRY'S total imports (or exports), thousands of \$
columns 231-240	COUNTRY'S production, thousands of \$ (in COMEXP.ASC only)
columns 231-240	COUNTRY'S apparent consumption, \$1000 (in COMIMP.ASC only)

*Size:*

COMIMP.ASC and COMEXP.ASC each have 5824 records.

*Related Files:*

The files COMIMP.ASC and COMEXP.ASC are computed by aggregating the trade and production values in COMM\_\*.ASC and COMX\_\*.ASC to the 3-digit ISIC level.

**5E. Factor Endowments for Eleven OECD Countries (EN\_OECD.ASC)**

*Complied by:* James Harrigan  
International Research  
Federal Reserve Bank of New York  
33 Liberty Street  
New York, NY 10045  
e-mail: james.harrigan@frbny.sprint.com

The file EN\_OECD.ASC contains measures of economy-wide supplies of various measures of capital, labor, and land for eleven OECD countries from 1970 to 1990. The series for some countries do not span this entire range.

The primary data comes from four sources:

1. PWT 5.6: Version 5.6 of the Penn-World Table, available freely from the NBER's website at <http://www.nber.org>. An earlier version of this data is described in some detail in: Summers, Robert, and Alan Heston, 1991, "The Penn World Table (Mark V): An Expanded Set of International Comparisons, 1950-1988" *Quarterly Journal of Economics*, 106, 327-368.
2. Barro-Lee: Data on educational attainment, also available freely from the NBER's website at <http://www.nber.org>. This data is described in: Barro, Robert J., and Jong-Wha Lee, 1993, "International Comparisons of Educational Attainment", NBER Working Paper #4349, April.
3. ILO: various volumes of the annual publication, *Year Book of Labour Statistics*, Copyright (c) International Labour Organization.
4. World Resources: Part IV of World Resources Institute, *World Resources 1994-1995*, New York: Oxford University Press.

All of the above sources cover many other countries besides the ones in this dataset, so you may be able to extend country coverage by going back to the original sources.

**IMPORTANT:** If you use these data, please cite the original sources above as well as James Harrigan. Most of the work was done by the authors of the original sources. You are also strongly urged to carefully study the original documentation so that you understand data definitions, construction, and cautions.

*Record Layout:*

The columns of data are listed below, with brief definitions. Detailed definitions follow.

columns 1-3	- country
columns 5-6	- year
columns 8-18	- proftech = % of labor force in ILO category 0/1
columns 20-25	- Population in 1000's
columns 27-36	- Durable Goods Capital = $\text{workers} * \text{kdur} * \text{kapw} / 100$ (in 1000's of 1985 \$ at international prices)
columns 38-47	- Other Capital = $\text{workers} * (100 - \text{kdur}) * \text{kapw} / 100$ (in 1000's of 1985 \$ at international prices)
columns 49-59	- workrate = workforce as % of Population
columns 61-71	- workers = $\text{Population} * \text{workrate} / 100$
columns 73-83	- skilled workers = $\text{proftech} * \text{workers} / 100$
columns 85-95	- unskilled workers = workers - skilled workers
columns 97-107	- low educ. workers = $\text{workers} * (\text{no\_i} + \text{pri\_i}) / 100$
columns 109-119	- med. educ. workers = $\text{workers} * \text{sec\_i} / 100$
columns 121-131	- high educ. workers = $\text{workers} * \text{high\_i} / 100$
columns 133-138	- arable land (thousand hectares)

*Detailed data descriptions:*

1. *country* three letter code: Belgium (BEL); Canada (CAN); Denmark (DNK); France (FRA); West Germany (GER); Italy (ITA); Japan (JPN); Norway (NOR); Sweden (SWE); United Kingdom (UKG); United States (USA).
2. *year* two digits in the range 70-90 (many series end in 1988).
3. *proftech* Source: ILO. The percentage of the labor force in ILO occupational categories 0/1, professional, technical and managerial workers. A large portion of this data is constructed by interpolating between non-missing observations or extrapolating back or forward, so it should be used cautiously if at all. The raw data come from Table 2B of various issues of the *ILO Year Book of Labour Statistics*.
4. *Population* Source: PWT 5.6. Population in 1000's.
5. *Durable Goods Capital* Source: constructed by Harrigan from PWT 5.6 data. Equal to  $\text{workers} * \text{kdur} * \text{kapw} / 100$ , where *kdur* is the proportion of the capital stock which is durable goods, *kapw* is capital per worker, and *workers* is defined below. The units are 1000's of 1985 \$ at international prices.
6. *Other Capital* Source: constructed by Harrigan from PWT 5.6 data. Equal to  $\text{workers} * (100 - \text{kdur}) * \text{kapw} / 100$ .  
The units are 1000's of 1985 \$ at international prices.

7. *workrate* Source: PWT 5.6. The workforce as a % of Population.
8. *workers* Source: constructed by Harrigan from PWT 5.6 data.  
Equal to  $\text{Population} * \text{workrate} / 100$ .
9. *skilled workers* Source: constructed by Harrigan from PWT 5.6 and ILO data.  
Equal to  $\text{proftech} * \text{workers} / 100$ .
10. *unskilled workers* Source: constructed by Harrigan from PWT 5.6 and ILO data.  
Equal to  $\text{workers} - \text{skilled workers}$ .

The following three variables use the educational attainment data from Barro-Lee. Most years are interpolated, so use with caution if at all. The educational variables are defined as:

- no* % of population with no schooling  
*no\_i* interpolated values of no  
*pri* % of population with at least some primary education; includes primary school dropouts as well as those who completed primary school but did not continue to secondary school.  
*pri\_i* interpolated values of pri  
*sec* % of population who completed primary school and have at least some secondary education; includes secondary school dropouts as well as those who completed secondary school but did not continue on to higher education.  
*sec\_i* interpolated values of sec  
*high* % of population who completed secondary school and have at least some higher education; includes college dropouts as well as those who completed a college degree. Also includes graduate school dropouts and higher-degree holders.  
*high\_i* interpolated values of high
11. *low ed. workers* Source: constructed by Harrigan from PWT 5.6 and Barro-Lee.  
Workers with at most some primary education. Equal to  $\text{workers} * (\text{no} + \text{pri}_i) / 100$ .
12. *med. ed. workers* Source: constructed by Harrigan from PWT 5.6 and Barro-Lee.  
Workers who have completed primary education and have at least some secondary education. Equal to  $\text{workers} * \text{sec}_i / 100$
13. *high ed. workers* Source: constructed by Harrigan from PWT 5.6 and Barro-Lee.  
Workers who have completed secondary education and have at least some higher education. Equal to  $\text{workers} * \text{high}_i / 100$
14. *arable* Source: *World Resources*. Arable land, thousands of hectares.

Size: EN\_OECD.ASC contains 224 records.

**5F. Factor Endowments for Many Countries (EN\_WORLD.ASC)**

Compiled by: Mohan Penubarti	Keith E. Maskus
Dept. of Political Science	Dept. of Economics
Univ. of California	Univ. of Colorado
Los Angeles, CA 90095-1472	Boulder, CO 80309-0256
E-mail: mohan@ucla.edu	Keith.Maskus@Colorado.edu

The file EN\_WORLD.ASC contains factor endowment data for all the countries in the Penn World Tables from 1970 to 1990. These data are a subset of a larger effort to compile factor endowment data for a large set of countries from 1950 to the present. This dataset should be considered work in progress. The latest version of this dataset is available via anonymous ftp from pundit.sscnet.ucla.edu. The data can be referenced to the paper:

Keith E. Maskus and Mohan Penubarti, "How Trade Related Are Intellectual Property Rights?," *Journal of International Economics*, Volume 39, 1995, p. 227-248.

*Record layout:*

- columns 1-13 - Country name
- columns 15-20 - Country code, six-digit (see Appendix B)
- columns 22-23 - Year
- columns 25-31 - kpwt: capital stock series from the Penn World Tables.
- columns 33-39 - kstock: real net capital stock in millions of US dollars. This is the accumulated, depreciated, and deflated series (15 years, 13.33% depreciation rate) of gross fixed capital formation in each country. Investment deflators were taken from Summers and Heston (1991). kpwt is provided for comparison purposes.
- columns 41-47 - land1: area of arable land and land under permanent crops or permanent pasture in thousands of hectares. These data are from the *Production Yearbook* of the U.N. Food and Agriculture Organization.
- columns 49-56 - land2: area of forests and woodland measured in thousands of hectares. These data are taken from the FAO *Production Yearbook*.
- columns 58-65 - labors: skilled labor force in thousands, as reported in the International Labor Organization *Year Book of Labour Statistics*, Table 2B. Skilled labor force is defined as occupation categories 0/1 and 2.
- columns 67-73 - laboru: unskilled labor force in thousands, as reported in the ILO *Year Book of Labour Statistics*, Table 2B. Unskilled labor force is defined as total labor force minus occupation categories 0/1 and 2.

*Missing values:* Several of the variables have missing values, which are denoted with a period.

*Size:* EN\_WORLD.ASC has 1638 records.

*Sources:* *Production Yearbook*, U.N. Food and Agriculture Organization.

Summers, Robert, and Alan Heston, 1991, "The Penn World Table (Mark V): An Expanded Set of International Comparisons, 1950-1988," *Quarterly Journal of Economics*, 327-368.  
*Year Book of Labour Statistics*, Copyright (c) International Labor Organization.



**5G. Input-Output Tables for the United Kingdom and the United States, 80 sectors  
(IO1\_UK\*.ASC, IO1\_US\*.ASC)**

<i>Contributed by:</i>	Keith E. Maskus Dept. of Economics Campus Box 256 Univ. of Colorado Boulder, CO 80309-0256	Allan Webster 9 Norton Road, Woodley Reading RG5 4AH United Kingdom
<i>E-mail:</i>	Keith.Maskus@Colorado.edu	

The CD-ROM includes two sets of input-output tables for the United Kingdom and the United States. The first set uses an 80-sector classification for industries, and was contributed by Keith Maskus and Allan Webster. The U.K. table is for the year 1989 (IO1\_UK89.ASC), while the U.S. tables are for the years 1987 and 1990 (IO1\_US87.ASC, IO1\_US90.ASC). These tables can be referenced to the papers:

Keith Maskus, C. Sveikauskas, and Allan Webster, "The Composition of the Human Capital Stock and Its Relation to International Trade: Evidence from the U.S. and Britain," *Weltwirtschaftliches Archiv*, 1994, Band 130, Heft 1.

Keith Maskus and Allan Webster, "Factor Specialization in U.S. and U.K. Trade: Simple Departures from the Factor-Content Theory," *Swiss Journal of Economics and Statistics*, 1995, Vol. 1, no. 131.

Descriptions of the files and their contents are below, followed by notes on how these data were collected and compiled. More detailed notes are available from Maskus.

*File IO1\_UK89.ASC*

This file contains first an (85x80) input-output direct use matrix, with entries in millions of 1989 pounds. There are 80 production sectors in this table, which was aggregated to be consistent with the industrial classification in the U.S. tables below. The first 80 rows provide data on intermediate inputs into each column industry. The final five rows provide further data for each sector on taxes, value added, total output, and so on as labeled. Industry names are provided in each row. Below this table is calculated, in a second (80x80) table, the intermediate coefficients matrix (often called the "A" matrix in IO work), which is simply each column entry of the use matrix divided by the column total output figure; thus these are input value shares or intermediate intensities. Those interested in using a "Leontief Inverse Matrix" would need to calculate  $(I-A)^{-1}$  themselves. Below this is a (9x80) table providing direct input coefficients (input use in pounds per pound of output) for certain primary inputs, made up of certain natural resources and physical capital types. These coefficients are calculated from the use matrix itself.

*File IO1\_US87.ASC*

This file contains first an (83x80) input-output direct use matrix, with entries in millions of 1987 dollars. There are 80 production sectors, with the aggregation consistent with the UK matrix. The first 80 rows provide intermediate inputs and the final three rows provide total output, intermediate uses, and value added by column. Below this table is the (80x80) intermediate coefficients matrix and below that is the (9x80) matrix of direct coefficients for natural resources and physical capital types. Again, these last coefficients are calculated from the use matrix.

*File IO1\_US90.ASC*

This file contains first the (82x80) input-output direct use matrix, with entries in millions of 1990 dollars. The 80 production sectors have been aggregated to be consistent with the 1987 matrix. The extra two rows contain value added and total output by column. Below this table is the (80x80) intermediate coefficients matrix. Below that is a (29x80) direct coefficients matrix, including again the nine natural-resource and physical-capital inputs (calculated from the use table) and an additional 20 categories of occupational employment. Thus, the coefficients are calculated as workers per million dollars of output in each sector, with the occupational employment data themselves listed in a final (20x80) table. These occupational employment figures by industry were aggregated from a different source as discussed below.

*Data Sources and Description of Aggregation*

Input-output tables for 1987 and 1990 for the United States were purchased on diskette from Bureau of Labor Statistics (BLS). These tables include 228 sectors organized into a standard BEA classification system. The 1989 IO table for the U.K. was taken from Input-Output Balance for the United Kingdom, 1989, Central Statistical Office, London, 1992. This table contains 102 sectors. We developed a concordance between the IO classification systems for purposes of aggregating the IO tables into 80 sectors in each country. Details of this aggregation are available from Maskus; it is a painstaking task. Aggregation consists of performing column and row sums across sectors, with sometimes a need to assign portions of sub-sectors to different aggregate sectors. While we believe this aggregation is as careful as possible, errors undoubtedly were made in the aggregation and users should make allowance for measurement error arising from this procedure.

An even more difficult task was assembling the occupational employment data for the United States. Every five years BLS compiles highly detailed data on occupational employment by (approximately) 5-digit SIC sector (including manufacturing, non-manufacturing, and services). The data base includes 507 occupational categories in 240 industries. The occupational categories are summarized in BLS, Occupational Projections and Training Data (1992), which covers 1990. Readers should be aware that these categories change each five years. The actual data base (204x507) is available on diskette from BLS for 1990, 1985, 1980, etc. It is likely that the 1995 data will become available in 1997. We developed a concordance between SIC and BEA categories for industrial matches and aggregated the occupations into the 20 types listed in the 1990 IO tables. We also have aggregations for a finer set of 74 occupations, which we used in the first paper cited above.

**5H. Input-Output Tables for the United Kingdom and the United States, 20 sectors  
(IO2\_US\*.ASC, IO2\_UK\*.ASC)**

<i>Contributed by:</i>	Jose Campa Stern School of Business New York University 44 W. 4th Street New York, NY 10012	Linda Goldberg Research Department, 3rd Floor Federal Reserve Bank - New York 33 Liberty Street New York, NY 10045
<i>E-mail:</i>	jcampa@stern.nyu.edu	Linda.Goldberg@frbny.sprint.com

The second set of input-output tables uses a 20-industry classification based on the two-digit U.S. SIC categories, and were contributed by Linda Goldberg and Jose Campa. The U.K. table is for the year 1990 (IO1\_UK90.ASC) while the U.S. tables are for the years 1982 and 1987 (IO1\_US82.ASC, IO1\_US87.ASC). These files also contain annual time series on sectoral export share, import share, and a constructed measure of imported input share. These data span about 1970 through 1995. The methodology for constructing the imported input share series is described and applied in the papers:

Campa, Jose and Linda Goldberg, 1995, "Investment in Manufacturing, Exchange Rates and External Exposure," *Journal of International Economics*, 38(3/4), May, 297-320.

Campa, Jose and Linda Goldberg, 1996, "Investment, Endogenous Markups, and Exchange Rates: A Cross-Country Comparison," March (revision of NBER working paper # 5139, June 1995).

Campa, Jose and Linda Goldberg, 1996, "The Evolving External Orientation of Manufacturing Industries," November.

*File Layout:*

The layout of the files is self-explanatory, with documentation provided within them. Each column in an input-output table corresponds to a *purchasing* industry, and each row corresponds to a *supplying* industry. Details for each country and data sources are provided below.

*Missing values:*

For non-manufacturing industries, the data in the U.S. input-output tables may be missing. For example, in the 1987 U.S. table, the upper-left element represents the purchases of industry 1a from industry 1a (non-manufacturing), and is reported as zero. This is actually a missing value.

Data for the United Kingdom (IO2\_UK90.ASC):

The input-output table was aggregated from the 1990 U.K. Table, as described in the concordance below. Each coefficient in the input-output table represents the value of materials purchased (in millions of pounds) by the column industry from the row industry. This data is combined with import share measures (from the OECD STAN database, but not reported here) to compute the imported input into production series for 1970 to 1992. The imported input series captures the share of imported inputs from agriculture, mining and manufacturing, but does not capture the role played by other non-tradable products. The export to production and imports to domestic supply are also computed using information from the OECD STAN database (not reported here).

INDUSTRY CONCORDANCE FOR THE UNITED KINGDOM:

ISIC	INDUSTRY	1990 UK I-O TABLE CODE
311-312	Food	58-67
313	Beverages	68-69
314	Tobacco	70
321-322	Textiles and Wearing Apparel	71-76, 79-80
323-324	Leather & Leather Products	77-78
331	Wood Products	81
332	Furniture & Fixtures	82
341	Paper & Products	83-84
342	Printing and Publishing	85
351-352	Chemical Products	20-29
353-354	Petroleum & Coal Products	6
355	Rubber Products	86
356	Plastic Products	87
361,362,369	Non-metallic Products	15-19
371	Iron & Steel	11
372	Non-Ferrous Metals	12-13
381	Fabricated Metal Products	30-33
382	Non-Electrical Machinery	34-43
383	Electrical Machinery	44-52
384	Transport Equipment	53-56
385	Professional Goods	57
390	Other Manufacturing	88-90

Sources:

OECD, *Industrial Structure Statistics*, several issues. Data on exports, imports, production, value added, wages & salaries to employees and employers' social security costs.

Central Statistical Office of the United Kingdom (1993), *1990 Input-Output Balances for the United Kingdom*, Table 3.

Data for the United States (IO2\_US82.ASC, IO2\_US87.ASC):

The input-output tables are aggregated from the 1982 and 1987 Benchmark U.S. Input-Output Tables, as described in the concordance below. Each coefficient in the input-output table represents the value of materials purchased (in millions of dollars) by the column industry from the row industry. Cost of materials is defined as the sum of total purchased inputs from manufacturing industries and by the total costs of compensation to employees. The measure of costs of materials does not include the costs of purchases from: agriculture, mining, wholesale and retail trade, public utilities, finance and insurance services and other services. The reason for excluding these industries is the lack of reliable international trade information for these industries

INDUSTRY CONCORDANCE FOR THE UNITED STATES:

SIC	INDUSTRY	I-O TABLE (2-digits)
20	Food and kindred products	14
21	Tobacco products	15
22	Textile mill products	16-18(excluding 18.0400)
23	Apparel and other textile products	18.0400 and 19
24	Lumber and wood products	20, 21 and 61.0602
25	Furniture and fixtures	22, 23
26	Paper and allied products	24, 25
27	Printing and publishing	26
28	Chemicals and allied products	27 to 30
29	Petroleum and coal products	31
30	Rubber and misc. plastic products	32
31	Leather and leather products	33 and 34
32	Stone, clay, and glass products	35 and 36
33	Primary metal products*	37 and 38 (*excluding 37.0300 and 38.1400)
34	Fabricated metal products	39 to 42 and 37.0300 and 38.1400
35	Industrial machinery and equipment	43 to 52
36	Electronic & other electric equipment	53 to 58 (excluding 53.0100)
37	Transportation equipment	59 to 61 (excluding 61.0602)
38	Instruments and related products	62, 63 and 53.0100
39	Miscellaneous manufacturing industries	64

Sources: "Benchmark Input-Output Accounts for the U.S. Economy, 1982" *Survey of Current Business* July 1991, 30-71 and Appendix A.

"Benchmark Input-Output Accounts for the U.S. Economy, 1987" *Survey of Current Business*, 74(4), April 1994, 73-115.

**5I. Non-Tariff Barriers for OECD Countries, 1983 (NTB\_OECD.ASC)**

*Contributed by:* James Harrigan  
 International Research  
 Federal Reserve Bank of New York  
 33 Liberty Street  
 New York, NY 10045  
 e-mail: james.harrigan@frbny.sprint.com

Data on non-tariff barriers is collected by the United Nations Commission on Trade and Development (UNCTAD). These data consist of indicator variables at the tariff line level for about 20 different types of NTBs. The file NTB\_OECD.ASC contains "coverage ratios" at the 3-digit ISIC level, which are measures of the percent of imports covered by one or more NTB, for the OECD countries in 1983. These coverage ratios are computed for three different types of NTBs (price, quantity, and threat) as well as for overall NTBs. The coverage ratio is a weighted average of the indicator variable (equal to zero or one) for that type of NTB, using the import value corresponding to that tariff line-item as weights. This data can be referenced to the following paper, which provides additional details on the construction:

Harrigan, James, 1993, "OECD Imports and Trade Barriers in 1983", *Journal of International Economics*, 35(1/2), August, 95-111.

*Record Layout:*

Each record in the file NTB\_OECD.ASC contains seven variables:

columns 1-3	-	Importing country (see list below)
columns 6-8	-	Exporting country (see list below)
columns 11-15	-	3-digit ISIC code (see list below)
columns 17-25	-	Price NTB coverage ratio on imports
columns 28-36	-	Quantity NTB coverage ratio on imports
columns 41-47	-	Threat NTB coverage ratio on imports
columns 50-58	-	Overall NTB coverage ratio on imports

*Country List:*

*Importing countries:* Belgium (BLX), Finland (FIN), France (FRA), Italy (ITA), West Germany (GER), Japan (JPN), The Netherlands (NTH), Norway (NOR), United Kingdom (UKG), United States (USA).

*Exporting Countries:* Australia (AUS), Belgium (BLX), Canada (CAN), Finland (FIN), France (FRA), Italy (ITA), Japan (JPN), West Germany (GER), The Netherlands (NTH), Norway (NOR), Sweden (SWE), United States (USA), United Kingdom (UKG).

*List of ISIC Industries:* The 3-digit level of the International Standard Industrial Classification System (ISIC) consists of 28 manufacturing categories, as shown in Table 5 (p. 24).

*Size:* NTB\_OECD.ASC contains 3322 records.

**5J. Tariff and Non-Tariff Barriers by Country (T\_\*.ASC)**

*Contributed by:* James Anderson,  
 Department of Economics,  
 Boston College,  
 Chestnut Hill, MA 02167  
*E-mail:* Anderson/EC@hermes.bc.edu

The files beginning with T\_ contain tariff and non-tariff barrier data aggregated from the TRAINS dataset as part of a project at the World Bank. The data is aggregated to 4-digit Harmonized System codes level from 6 or 7-digit level. The tariffs are a trade weighted average of the tariffs at the 6 or 7 digit level. The non-tariff barrier variable equals unity if 75% or more of 6 or 7-digit lines had non-tariff barriers in place, and zero otherwise. The tariff and non-tariff variables, along with the corresponding import data at the 4-digit Harmonized System, are provided for a single year (indicated below), except for Argentina, Morocco and Pakistan, which have data for two or more years. This data can be referenced to the paper:

James E. Anderson, 1994, Trade Restrictiveness Benchmarks, Boston College, June, mimeo.

*Record Layout:*

Each file T\_\*.ASC consist of the following variables:

columns 1-4	-	4-digit Harmonized System code
column 6	-	Non-tariff barrier (equals 0 or 1)
columns 8-14	-	Average tariff (e.g. 0.2 = 20% ad valorem tariff)
columns 16-26	-	Import value (US\$ 1,000)
columns 28-29	-	Year (omitted in all single-year files)

*Organization of Files:*

The data is organized into separate files depending on whether the 4-digit commodity is a final good (with the suffix FIN) or an intermediate input (with the suffix INT). Each file name is of the form T\_NM\_FIN.ASC, or T\_NM\_INT.ASC, where NM is a two-digit country name. There are 24 countries included, with the year(s) of data indicated below:

<i>Country</i>	<i>Full Name</i>	<i>Year</i>
AG*	Argentina	1985 and 1988
AT	Austria	1988
AU	Australia	1988
BO*	Bolivia	1991

BR	Brazil	1989
CA	Canada	1990
CH	Switzerland	1988
CO	Colombia	1991
EC*	Ecuador	1991
FI	Finland	1988
HU*	Hungary	1991
ID	Indonesia	1989
IN	India	1991
JP	Japan	1988
KR	Republic of Korea	1988
MR*	Morocco	1984, 1985, 1986 and 1988
MX	Mexico	1989
MY	Malaysia	1988
NO	Norway	1988
NZ	New Zealand	1988
PE*	Peru	1991
PH	Philippines	1991
PK*	Pakistan	1986 and 1988
PL	Poland	1989
PY*	Paraguay	1990
SE	Sweden	1988
TH	Thailand	1988
TN	Tunisia	1991
US	USA	1990
VE*	Venezuela	1991

\* The data for the starred countries is not aggregated from TRAINS data. It was prepared from data supplied by country economists at the World Bank.

*Special Considerations:*

Comparing the imports totals from the above files with data from the World Bank, *World Development Report*, there are some discrepancies. It is not unusual, for example, for the total value of imports in the files to differ from that in the *World Development Report* by 10%, and in some cases by as much as 30%. The source of this discrepancy is unknown.

*Size:*

For countries with data for one year, the file with suffix `_FIN` has 594 records, and the file with suffix `_INT` has 647 records. For Argentina, Morocco, and Pakistan, the files are longer.



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**Appendix B: Country Names and Codes (Source: Statistics Canada, 1995 Appendix A)****These codes are used in both the WTDB and the COMTAP databases:****Sorted by Code:**

WORLD	TOTAL MARKET
117100	SOUTH AFRICA
130120	ALGERIA
134340	LIBY ARAB JM
135040	MOROCCO
137320	WESTERN SAHARA
137360	SUDAN
137880	TUNISIA
138180	EGYPT
138960	NORTH AFRICA NES
141200	CAMEROON
141400	CENTRAL AFR. REP.
141480	CHAD
141780	CONGO
142660	GABON
148960	CEUCA NES
160240	ANGOLA
160860	BR. IND. OC. TR
161080	BURUNDI
161740	COMOROS
161800	ZAIRE
162040	BENIN
162260	EQ. GUINEA
162300	ETHIOPIA
162600	FR. SO. ANT. TR
162620	DJIBOUTI
162700	GAMBIA
162880	GHANA
163240	GUINEA
163840	COTE D'IVOIRE
164040	KENYA
164300	LIBERIA
164500	MADAGASCAR
164540	MALAWI
164660	MALI
164780	MAURITANIA
164800	MAURITIUS
165080	MOZAMBIQUE
165620	NIGER
165660	NIGERIA
166240	GUINEA-BISSAU (includes CAPE VERDE)
166380	REUNION
166460	RWANDA
166540	ST. HELENA
166860	SENEGAL
166900	SEYCHELLES
166940	SIERRA LEONE
167060	SOMALIA
167160	ZIMBABWE
167680	TOGO
168000	UGANDA
168340	UNTD RP TANZANIA
168540	BURKINA FASO
168940	ZAMBIA
168960	OTHER AFRICA NES
211240	CANADA
218400	USA
220600	BERMUDA
223040	GREENLAND
226660	ST PIERRE MIQU
330320	ARGENTINA
330680	BOLIVIA

**Sorted by Name:**

WORLD	TOTAL MARKET
450040	AFGHANISTAN
580080	ALBANIA
130120	ALGERIA
160240	ANGOLA
908960	AREAS NES
330320	ARGENTINA
488960	ASIA CPE NES
710360	AUSTRALIA
550400	AUSTRIA
350440	BAHAMAS
440480	BAHRAIN
450500	BANGLADESH
350520	BARBADOS
530560	BELGIUM-LUX.
360840	BELIZE
162040	BENIN
220600	BERMUDA
450640	BHUTAN
330680	BOLIVIA
160860	BR. IND. OC. TR
330760	BRAZIL
450960	BRUNEI
581000	BULGARIA
168540	BURKINA FASO
161080	BURUNDI
348960	CACM NES
451160	CAMBODIA
141200	CAMEROON
211240	CANADA
358960	CARIBBEAN NES
351360	CAYMAN ISLDS
141400	CENTRAL AFR. REP.
148960	CEUCA NES
141480	CHAD
331520	CHILE
481560	CHINA
331700	COLOMBIA
161740	COMOROS
141780	CONGO
341880	COSTA RICA
163840	COTE D'IVOIRE
351920	CUBA
441960	CYPRUS
582000	CZECHOSLOVAKIA
532080	DENMARK (includes FAROE ISLDS)
162620	DJIBOUTI
352140	DOMINICAN RP
332180	ECUADOR
538960	EEC NES
558960	EFTA NES
138180	EGYPT
342220	EL SALVADOR
162260	EQ. GUINEA
162300	ETHIOPIA
362380	FALKLAND ISL
722420	FIJI
552460	FINLAND
447200	FM DEM YEMEN
588960	FM EUR CPE NES
582780	FM GERMAN DM RP (EAST)
688100	FM USSR

330760	BRAZIL	448860	FM YEMEN
331520	CHILE	598900	FM YUGOSLAVIA (includes CROATIA, SLOVENIA)
331700	COLOMBIA	162600	FR.SO.ANT.TR
332180	ECUADOR	532500	FRANCE
334840	MEXICO	362540	FRENCH GUIANA
336000	PARAGUAY	142660	GABON
336040	PERU	162700	GAMBIA
338580	URUGUAY	532800	GERMANY
338620	VENEZUELA	162880	GHANA
338960	LAIA NES	572920	GIBRALTAR
341880	COSTA RICA	533000	GREECE
342220	EL SALVADOR	223040	GREENLAND
343200	GUATEMALA	353120	GUADELOUPE (includes MARTINIQUE)
343400	HONDURAS	343200	GUATEMALA
345580	NICARAGUA	163240	GUINEA
348960	CACM NES	166240	GUINEA-BISSAU (includes CAPE VERDE)
350440	BAHAMAS	363280	GUYANA
350520	BARBADOS	353320	HAITI
351360	CAYMAN ISLDS	343400	HONDURAS
351920	CUBA	453440	HONG KONG
352140	DOMINICAN RP	583480	HUNGARY
353120	GUADELOUPE (includes MARTINIQUE)	553520	ICELAND
353320	HAITI	453560	INDIA
353880	JAMAICA	453600	INDONESIA (includes MACAU)
355320	NETH ANTILLES	443640	IRAN
356580	ST KITTS NEV (includes DOMINICA, MONTSERRAT, ST LUCA, ST VINCT, GRENADA)	443680	IRAQ
357800	TRINIDAD-TOBAGO	533720	IRELAND
357960	TURKS CAICOS ISL	413760	ISRAEL
358960	CARIBBEAN NES	533800	ITALY
360840	BELIZE	353880	JAMAICA
362380	FALKLAND ISL	413920	JAPAN
362540	FRENCH GUIANA	444000	JORDAN
363280	GUYANA	164040	KENYA
365900	PANAMA	722960	KIRIBATI (includes SOLOMON ISLDS, TONGA, TUVALU)
367400	SURINAM	484080	KOREA D P RP (NORTH)
368960	REST AMERICA NES	454100	KOREA RP (SOUTH)
413760	ISRAEL	444140	KUWAIT
413920	JAPAN	338960	LAIA NES
440480	BAHRAIN	454180	LAOS P.DEM.R
441960	CYPRUS	444220	LEBANON
443640	IRAN	164300	LIBERIA
443680	IRAQ	134340	LIBY ARAB JM
444000	JORDAN	164500	MADAGASCAR
444140	KUWAIT	164540	MALAWI
444220	LEBANON	454580	MALAYSIA
445120	OMAN	454620	MALDIVES
446340	QATAR	164660	MALI
446820	SAUDI ARABIA	574700	MALTA
447200	FM DEM YEMEN	164780	MAURITANIA
447600	SYRN ARAB RP	164800	MAURITIUS
447840	UNTD ARAB EM	334840	MEXICO
447920	TURKEY	448960	MIDDLE EAST NES
448860	FM YEMEN	484960	MONGOLIA
448870	YEMEN	135040	MOROCCO
448960	MIDDLE EAST NES	165080	MOZAMBIQUE
450040	AFGHANISTAN	451040	MYANMAR (BURMA)
450500	BANGLADESH	455240	NEPAL
450640	BHUTAN	355320	NETH ANTILLES
450960	BRUNEI	535280	NETHERLANDS
451040	MYANMAR (BURMA)	725400	NEW CALEDONIA (includes FR POLYNESIA, VANUATA)
451160	CAMBODIA	715540	NEW ZEALAND
451440	SRI LANKA	345580	NICARAGUA
453440	HONG KONG	165620	NIGER
453560	INDIA	165660	NIGERIA
453600	INDONESIA (includes MACAU)	138960	NORTH AFRICA NES
454100	KOREA RP (SOUTH)		
454180	LAOS P.DEM.R		
454580	MALAYSIA		

454620	MALDIVES	555780	NORWAY
455240	NEPAL	445120	OMAN
455860	PAKISTAN	728960	OTH. OCEANIA NES
456080	PHILIPPINES	168960	OTHER AFRICA NES
457020	SINGAPORE	578960	OTHER EUR NES
457640	THAILAND	455860	PAKISTAN
458960	TAIWAN	365900	PANAMA
481560	CHINA	725980	PAPUA N.GUINEA
484080	KOREA D P RP (NORTH)	336000	PARAGUAY
484960	MONGOLIA	336040	PERU
487040	VIETNAM	456080	PHILIPPINES
488960	ASIA CPE NES	586160	POLAND
530560	BELGIUM-LUX.	536200	PORTUGAL
532080	DENMARK	446340	QATAR
	(includes FAROE ISLDS)	368960	REST AMERICA NES
532500	FRANCE	166380	REUNION
532800	GERMANY	586420	ROMANIA
533000	GREECE	166460	RWANDA
533720	IRELAND	446820	SAUDI ARABIA
533800	ITALY	166860	SENEGAL
535280	NETHERLANDS	166900	SEYCHELLES
536200	PORTUGAL	166940	SIERRA LEONE
537240	SPAIN	457020	SINGAPORE
538260	UNITED KINGDOM	720900	SOLOMON ISLDS
538960	EEC NES	167060	SOMALIA
550400	AUSTRIA	117100	SOUTH AFRICA
552460	FINLAND	537240	SPAIN
553520	ICELAND	451440	SRI LANKA
555780	NORWAY	356580	ST KITTS NEV (includes
557520	SWEDEN		DOMINICA, MONTSERRAT,
557560	SWITZERLAND		ST LUCA, ST VINCT, GRENADA)
558960	EFTA NES	226660	ST PIERRE MIQU
572920	GIBRALTAR	166540	ST. HELENA
574700	MALTA	137360	SUDAN
578960	OTHER EUR NES	367400	SURINAM
580080	ALBANIA	557520	SWEDEN
581000	BULGARIA	557560	SWITZERLAND
582000	CZECHOSLOVAKIA	447600	SYRN ARAB RP
582780	FM GERMAN DM RP (EAST)	458960	TAIWAN
583480	HUNGARY	457640	THAILAND
586160	POLAND	167680	TOGO
586420	ROMANIA	357800	TRINIDAD-TOBAGO
588960	FM EUR CPE NES	137880	TUNISIA
598900	FM YUGOSLAVIA (includes	447920	TURKEY
	CROATIA, SLOVENIA)	357960	TURKS CAICOS ISL
688100	FM USSR	168000	UGANDA
710360	AUSTRALIA	538260	UNITED KINGDOM
715540	NEW ZEALAND	999999	UNKNOWN PARTNER
720900	SOLOMON ISLDS	447840	UNTD ARAB EM
722420	FIJI	168340	UNTD RP TANZANIA
722960	KIRIBATI (includes	338580	URUGUAY
	SOLOMON ISLDS,	218400	USA
	TONGA, TUVALU)	338620	VENEZUELA
725400	NEW CALEDONIA (includes	487040	VIETNAM
	FR POLYNESIA, VANUATA)	137320	WESTERN SAHARA
725980	PAPUA N.GUINEA	448870	YEMEN
728960	OTH. OCEANIA NES	161800	ZAIRE
908960	AREAS NES	168940	ZAMBIA
999999	UNKNOWN PARTNER	167160	ZIMBABWE

**Used only in the COMTAP database:**

368962 U.S. VIRGIN ISLANDS  
728882 SAMOA

**Appendix C. SITC Revision 2 codes “rolled up” in Statistics Canada WTDB****(Source: Statistics Canada, 1995, Appendix D, with modifications)**

<b>FROM</b>	<b>TO</b>	<b>FROM</b>	<b>TO</b>	<b>FROM</b>	<b>TO</b>	<b>FROM</b>	<b>TO</b>	<b>FROM</b>	<b>TO</b>
0141	0149	2742	274A	5332	5989	6123	612A	6639	6633
0221	022X	2877	2879	5335	5334	6129	612A	6641	665A
0482	0470	2923	2929	5514	5513	6251	625A	6642	665A
0548	0545	3222	3221	5541	5542	6252	625A	6643	665A
0564	0565	3223	3231	5721	5989	6253	625A	6644	665A
0573	0579	3342	3343	5722	5989	6254	625A	6645	665A
0576	0579	3359	3351	5723	5989	6259	625A	6646	665A
0582	0589	3413	341A	5810	58XX	6281	6289	6647	665A
0615	0619	3414	341A	5821	582A	6328	6359	6648	665A
0721	0730	3415	341A	5822	582A	6330	6359	6649	665A
0722	0730	4233	4249	5823	582A	6344	6359	6651	665A
0723	0730	4234	4249	5824	582A	6349	6359	6652	665A
0751	075A	4235	4249	5825	582A	6352	6359	6658	665A
0752	075A	4236	4249	5826	582A	6354	6359	6671	6674
0913	091A	4242	4249	5827	582A	6422	6424	6673	6674
0914	091A	4244	4249	5828	582A	6423	6424	6727	674A
1122	1121	4245	4249	5829	582A	6511	6519	6741	674A
1125	112X	4311	4313	5831	583A	6513	6519	6744	674A
1221	1223	4312	4313	5832	583A	6515	6519	6745	674A
2114	2119	5111	511A	5833	583A	6516	6519	6746	674A
2116	2120	5112	511A	5834	583A	6518	6519	6747	674A
2221	2238	5113	511A	5835	583A	6532	6531	6748	674A
2231	2238	5114	511A	5836	583A	6534	6531	6749	674A
2239	2238	5119	511A	5837	583A	6535	6539	6750	674A
2519	2512	5122	5121	5838	583A	6536	6539	6784	6783
2631	263A	5137	513A	5839	583A	6538	6539	6871	689A
2632	263A	5138	513A	5841	584A	6541	6549	6872	689A
2633	263A	5139	513A	5842	584A	6543	6542	6880	689A
2634	263A	5145	514A	5843	584A	6544	6549	6891	689A
2651	265A	5146	514A	5849	584A	6545	6549	6899	689A
2652	265A	5147	514A	5851	2331	6546	6549	6911	691A
2654	265A	5148	514A	5852	2331	6551	655X	6912	691A
2655	265A	5154	515X	5911	591A	6552	655X	6921	692A
2659	265A	5155	515X	5912	591A	6553	655X	6924	692A
2665	266A	5156	516X	5913	591A	6572	6589	6932	6935
2666	266A	5157	515X	5914	591A	6574	6560	6975	8122
2667	266A	5163	515X	5982	5989	6576	6589	6978	6999
2671	266A	5223	5239	5983	5989	6579	6573	6993	8998
2672	266A	5232	5231	6112	611A	6582	6589	6994	6997
2687	2683	5233	5231	6113	611A	6593	6592	7111	711A
2711	271A	5241	524A	6114	611A	6594	6592	7112	711A
2712	271A	5249	524A	6115	611A	6595	6592	7119	711A
2713	271A	5311	5331	6116	611A	6596	6592	7126	712A
2714	271A	5312	5331	6118	611A	6597	6592	7129	712A
2734	2732	5322	5331	6121	612A	6635	6633	7131	714A
2741	274A	5323	5331	6122	612A	6637	6633	7132	7139

**Appendix C, cont'd.**

<b>FROM</b>	<b>TO</b>	<b>FROM</b>	<b>TO</b>	<b>FROM</b>	<b>TO</b>
7138	7139	7518	8813	7925	792A
7144	714A	7521	752A	7928	792A
7148	714A	7522	752A	7929	792A
7149	714A	7523	752A	7931	793A
7161	716A	7524	752A	7932	793A
7162	716A	7525	752A	7933	793A
7163	716A	7528	752A	7938	793A
7169	716A	7599	7512	8211	821A
7181	718X	7611	761A	8212	821A
7187	714A	7612	761A	8219	821A
7223	722A	7621	762A	8234	821A
7224	722A	7622	762A	8411	84XX
7233	723A	7628	762A	8424	8421
7234	723A	7631	7649	8435	8441
7239	723A	7638	7649	8439	8429
7244	7247	7643	7649	8443	8461
7245	7247	7648	7649	8462	8461
7246	7247	7711	771A	8463	8461
7263	726X	7712	771A	8464	8461
7264	726X	7721	772A	8731	8748
7267	726X	7722	772A	8732	8748
7268	726X	7723	772A	8742	8748
7269	726X	7741	8720	8743	8748
7271	727A	7753	7757	8744	8748
7272	727A	7761	776A	8812	8811
7362	7361	7762	776A	8821	8813
7367	7361	7763	776A	8924	8928
7368	7369	7764	776A	8932	8998
7372	7361	7768	776A	8933	8939
7373	7413	7832	7821	8935	8124
7411	7284	7841	7821	8941	8998
7412	7413	7842	7849	8951	895A
7415	7414	7851	7822	8952	895A
7421	742A	7853	7852	8959	895A
7422	742A	7861	786A	8972	897A
7423	742A	7868	786A	8973	897A
7428	742A	7911	791A	8974	897A
7429	742A	7912	791A	8989	8981
7431	743A	7913	791A	8993	8998
7432	743A	7914	791A	8994	8998
7433	743A	7915	791A	9110	9310
7434	743A	7919	791A	9610	9310
7435	7284	7921	792A		
7436	7284	7922	792A		
7439	7284	7923	792A		
7449	7442	7924	792A		

**Appendix D. SITC Revision 2 codes used by Statistics Canada, WTDB, and the corresponding BEA 34 manufacturing industry code**

**(Sources: Statistics Canada, 1995, Appendix C, and authors' concordance to BEA)**

SITC	BEA	DESCRIPTION
0011	.	ANIMALS OF THE BOVINE SPECIES, INCL. BUFFALOES, LIVE
0012	.	SHEEP AND GOATS, LIVE
0013	.	SWINE, LIVE
0014	.	POULTRY, LIVE (I.E., FOWLS, DUCKS, GEESE, ETC.)
0015	.	HORSES, ASSES, MULES AND HINNIES, LIVE
0019	.	LIVE ANIMALS OF A KIND MAINLY USED FOR HUMAN FOOD
001A	.	LIVE ANIMALS CHIEFLY FOR FOOD
001X	.	LIVE ANIMALS CHIEFLY FOR FOOD
00XX	.	LIVE ANIMALS CHIEFLY FOR FOOD
0111	4	MEAT OF BOVINE ANIMALS, FRESH, CHILLED OR FROZEN
0112	4	MEAT OF SHEEP AND GOATS, FRESH, CHILLED OR FROZEN
0113	4	MEAT OF SWINE, FRESH, CHILLED OR FROZEN
0114	4	POULTRY, DEAD & EDIBLE OFFALS EX. LIVER, FRESH/FROZEN
0115	4	MEAT OF HORSES, ASSES, ETC., FRESH, CHILLED, FROZEN
0116	4	EDIBLE OFFALS OF ANIMALS IN HEADINGS 001.1 - 001.5
0118	4	OTHER FRESH, CHILLED, FROZEN MEAT OR EDIBLE OFFALS
011A	4	MEAT, EDIBLE MEAT OFFALS, FRESH, CHILLED OR FROZEN
011X	4	MEAT, EDIBLE MEAT OFFALS, FRESH, CHILLED OR FROZEN
0121	4	BACON, HAM & OTHER DRIED, SALTED, SMOKED MEAT OF SWI.
0129	4	MEAT & EDIB. OFFALS, N.E.S. SALT. IN BRINE DRIED/SMOK.
012A	4	MEAT & EDIBLE OFFALS, SALTED, IN BRINE, DRIED/SMOKED
012X	4	MEAT & EDIBLE OFFALS, SALTED, IN BRINE, DRIED/SMOKED
0141	4	MEAT EXTRACTS AND MEAT JUICES; FISH EXTRACTS
0142	4	SAUSAGES & THE LIKE, OF MEAT, MEAT OFFAL OR BLOOD
0149	4	OTHER PREPARED OR PRESERVED MEAT OR MEAT OFFALS
014A	4	MEAT & EDIB. OFFALS, PREP/PRES., FISH EXTRACTS
014X	4	MEAT & EDIB. OFFALS, PREP/PRES., FISH EXTRACTS
01XX	4	MEAT AND MEAT PREPARATIONS
0223	4	MILK & CREAM, FRESH, NOT CONCENTRATED OR SWEETENED
0224	4	MILK & CREAM, PRESERVED, CONCENTRATED OR SWEETENED
022A	4	MILK AND CREAM
022X	4	MILK AND CREAM
0230	4	BUTTER
0240	4	CHEESE AND CURD
0251	.	EGGS IN SHELL
0252	4	EGGS NOT IN SHELL
025A	.	EGGS AND YOLKS, FRESH, DRIED OR OTHERWISE PRESERVED
025X	.	EGGS AND YOLKS, FRESH, DRIED OR OTHERWISE PRESERVED
02XX	4	DAIRY PRODUCTS AND BIRDSEGGs
0341	4	FISH, FRESH (LIVE/DEAD) OR CHILLED, EXCL. FILLETS
0342	4	FISH, FROZEN (EXCLUDING FILLETS)
0343	4	FISH FILLETS, FRESH OR CHILLED
0344	4	FISH FILLETS, FROZEN
034A	4	FISH, FRESH (LIVE OR DEAD), CHILLED OR FROZEN
034X	4	FISH, FRESH (LIVE OR DEAD), CHILLED OR FROZEN
0350	4	FISH, DRIED, SALTED OR IN BRINE; SMOKED FISH
0360	4	CRUSTACEANS AND MOLLUSCS, FRESH, CHILLED, FROZEN ETC
0371	4	FISH, PREPARED OR PRESERVED, N.E.S. INCLUDING CAVIAR
0372	4	CRUSTACEANS AND MOLLUSCS, PREPARED OR PRESERVED
037A	4	FISH, CRUSTACEANS AND MOLLUSCS, PREPAR. OR PRESERV.
037X	4	FISH, CRUSTACEANS AND MOLLUSCS, PREPAR. OR PRESERV.
03XX	4	FISH, CRUSTACEANS, MOLLUSCS, PREPARATIONS THEREOF
0411	.	DURUM WHEAT, UNMILLED
0412	.	OTHER WHEAT (INCLUDING SPELT) AND MESLIN, UNMILLED
041A	.	WHEAT (INCLUDING SPELT) AND MESLIN, UNMILLED
041X	.	WHEAT (INCLUDING SPELT) AND MESLIN, UNMILLED
0421	.	RICE IN THE HUSK OR HUSKED, BUT NOT FURTHER PREPAR.
0422	1	RICE SEMI-MILLED OR WHOLLY MILLED, BROKEN RICE
042A	1	RICE
042X	1	RICE
0430	.	BARLEY, UNMILLED
0440	.	MAIZE (CORN), UNMILLED
0451	.	RYE, UNMILLED
0452	.	OATS, UNMILLED
0459	.	BUCKWHEAT, MILLET, CANARY SEED, GRAIN SORGHUM ETC
045A	.	CEREALS, UNMILLED (NO WHEAT, RICE, BARLEY OR MAIZE)
045X	.	CEREALS, UNMILLED (NO WHEAT, RICE, BARLEY OR MAIZE)
0460	1	MEAL AND FLOUR OF WHEAT AND FLOUR OF MESLIN
0470	2	OTHER CEREAL MEALS AND FLOURS



0481 1 CEREAL GRAINS,WORKED/PREPARED, (BREAKFAST FOODS)  
 0482 2 MALT,ROASTED OR NOT (INCLUDING MALT FLOUR)  
 0483 4 MACARONI, SPAGHETTI AND SIMILAR PRODUCTS  
 0484 1 BAKERY PRODUCTS (E.G.,BREAD,BISCUITS,CAKES) ETC.  
 0488 1 MALT EXTRACT;PREP.OF FLOUR ETC,FOR INFANT FOOD  
 048A 1 CEREAL PREPAR. & PREPS. OF FLOUR OF FRUITS OR VEG.  
 048X 1 CEREAL PREPAR. & PREPS. OF FLOUR OF FRUITS OR VEG.  
 04XX . CEREALS AND CEREAL PREPARATIONS  
 0541 . POTATOES  
 0542 . BEANS,PEAS,LENTILS & OTHER LEGUMINOUS VEGETABLES  
 0544 . TOMATOES,FRESH OR CHILLED  
 0545 . OTHER FRESH OR CHILLED VEGETABLES  
 0546 4 VEGETABLES,FROZEN OR IN TEMPORARY PRESERVATIVE  
 0548 . VEGETABLE PRODUCTS,ROOTS & TUBERS,FOR HUMAN FOOD  
 054A . VEGETAB.,FRESH,CHILLED,FROZEN/PRES.;ROOTSTUBERS  
 054X . VEGETAB.,FRESH,CHILLED,FROZEN/PRES.;ROOTS,TUBERS  
 0561 4 VEGETABLES,DRIED,DEHYDRATED OR EVAPORATED  
 0564 4 FLOURS,MEALS & FLAKES OF POTATOES.FRUIT & VEGETA.  
 0565 4 VEGETABLES,PREPARED OR PRESERVED,N.E.S.  
 056A 4 VEGETAB.,ROOTS & TUBERS,PREPARED/PRESERVED,N.E.S.  
 056X 4 VEGETAB.,ROOTS & TUBERS,PREPARED/PRESERVED,N.E.S.  
 0571 . ORANGES,MANDARINS,CLEMENTINES AND OTHER CITRUS  
 0572 . OTHER CITRUS FRUIT,FRESH OR DRIED  
 0573 . BANANAS,FRESH OR DRIED  
 0574 . APPLES,FRESH  
 0575 . GRAPES,FRESH OR DRIED  
 0576 . FIGS,FRESH OR DRIED  
 0577 . EDIBLE NUTS(EXCL.NUTS USED FOR THE EXTRACT.OF OIL)  
 0579 . FRUIT,FRESH OR DRIED, N.E.S.  
 057A . FRUIT & NUTS(NOT INCLUD. OIL NUTS),FRESH OR DRIED  
 057X . FRUIT & NUTS(NOT INCLUD. OIL NUTS),FRESH OR DRIED  
 0582 4 FRUIT,FRUIT-PEEL & PARTS OF PLANTS,PRES. BY SUGAR  
 0583 4 JAMS,FRUIT JELLIES, MARMALADES,FRUIT PUREE,COOKED  
 0585 4 JUICES;FRUIT & VEGET.(INCL.GRAPE MUST) UNFERMENTED  
 0586 4 FRUIT,TEMPORARILY PRESERVED  
 0589 4 FRUIT OTHERWISE PREPARED OR PRESERVED,N. E.S.  
 058A 4 FRUIT,PRESERVED,AND FRUIT PREPARATIONS  
 058X 4 FRUIT,PRESERVED,AND FRUIT PREPARATIONS  
 05XX . VEGETABLES AND FRUIT  
 0611 . SUGARS,BEET AND CANE,RAW,SOLID  
 0612 4 REFINED SUGARS AND OTHER PROD. OF REF. BEET/CANE  
 0615 4 MOLASSES,WHETHER OR NOT DECOLOURIZED  
 0616 . NATURAL HONEY  
 0619 4 OTHER SUGARS;SUGAR SYRUPS;ARTIFICIAL HONEY;CAMEL  
 061A 4 SUGAR AND HONEY  
 061X 4 SUGAR AND HONEY  
 0620 4 SUGAR CONFECTIONERY AND OTHER SUGAR PREPARATIONS  
 06XX 4 SUGAR,SUGAR PREPARATIONS AND HONEY  
 0711 . COFFEE,WHETHER OR NOT ROASTED OR FREED OF CAFFEINE  
 0712 4 EXTRACTS,ESSENCES/CONCENT.OF COFFEE & CHICORY  
 071A . COFFEE AND COFFEE SUBSTITUTES  
 071X . COFFEE AND COFFEE SUBSTITUTES  
 0721 . COCOA BEANS,WHOLE OR BROKEN,RAW OR ROASTED  
 0722 4 COCOA POWDER,UNSWEETENED  
 0723 4 COCOA BUTTER AND COCOA PASTE  
 072A . COCOA  
 072X . COCOA  
 0730 . CHOCOLATE & OTHER FOOD PREPTNS. CONTAINING COCOA  
 0741 . TEA  
 0742 . MATE  
 074A . TEA AND MATE  
 074X . TEA AND MATE  
 0751 . PEPPER; PIMENTO  
 0752 . SPICES (EXCEPT PEPPER AND PIMENTO)  
 075A . SPICES  
 075X . SPICES  
 07XX . COFFEE,TEA,COCOA,SPICES,MANUFACTURES THEREOF  
 0811 . HAY AND FODDER,GREEN OR DRY  
 0812 1 BRAN,SHARPS & OTHER RESIDUES DERIVED FROM SIFTING  
 0813 4 OIL-CAKE & OTHER RESIDUES (EXCEPT DREGS)  
 0814 4 FLOURS &  
 0819 1 FOOD WASTES AND PREPARED ANIMAL FEEDS,N.E.S  
 081A 4 FEED.STUFF FOR ANIMALS(NOT INCL.UNMILLED CEREALS)  
 081X 4 FEED.STUFF FOR ANIMALS(NOT INCL.UNMILLED CEREALS)  
 08XX 4 FEEDING STUFF FOR ANIMALS,NOT INCL.UNMIL.CEREALS  
 0913 4 LARD,OTHER PIG FAT& POULTRY,RENDERED/SOLVENT-EXT.  
 0914 4 MARGARINE,IMITAT.LARD & OTHER PREPARED EDIBLE FATS  
 091A 4 MARGARINE AND SHORTENING  
 091X 4 MARGARINE AND SHORTENING  
 0980 4 EDIBLE PRODUCTS AND PREPARATIONS N.E.S.

0980	4	EDIBLE PRODUCTS AND PREPARATIONS N.E.S.
09XX	4	MISCEL.EDIBLE PRODUCTS AND PREPARATIONS
0XXX	4	FOOD AND LIVE ANIMALS CHIEFLY FOR FOOD
1110	2	NON ALCOHOLIC BEVERAGES,N.E.S.
1121	2	WINE OF FRESH GRAPES (INCLUDING GRAPE MUST)
1122	2	OTHER FERMENTED BEVERAGES N.E.S (CIDER,PERRY MEAD)
1123	2	BEER MADE FROM MALT (INCLUDALE,STOUT AND PORTER)
1124	2	SPIRITS;LIQUEURS, OTHER SPIRITUOUS BEVERAGES,N.E.S
112A	2	ALCOHOLIC BEVERAGES
112X	2	ALCOHOLIC BEVERAGES
11XX	2	BEVERAGES
1211	.	TOBACCO,NOT STRIPPED
1212	.	TOBACCO,WHOLLY OR PARTLY STRIPPED
1213	.	TOBACCO REFUSE
121A	.	TOBACCO,UNMANUFACTURED; TOBACCO REFUSE
121X	.	TOBACCO,UNMANUFACTURED; TOBACCO REFUSE
1221	3	CIGARS AND CHERROOTS; CIGARILLOS
1222	3	CIGARETTES
1223	3	TOBACCO,MANUFACTURED (INC.SMOKING,CHEWING TOBACC
122A	3	TOBACCO MANUFACTURED
122X	3	TOBACCO MANUFACTURED
12XX	3	TOBACCO AND TOBACCO MANUFACTURES
1XXX	2	BEVERAGES AND TOBACCO
2111	4	BOVINE & EQUINE HIDES (OTHER THAN CALF),RAW
2112	4	CALF SKINS,RAW (FRESH,SALTED,DRIED,PICKLED/LIMED
2114	4	GOAT & KID SKINS,RAW (FRESH,SALTED,DRIED,PICKLED)
2116	4	SHEEP & LAMB SKINS WITH WOOL ON,RAW (FRESH,SALTED)
2117	4	SHEEP & LAMB SKINS WITHOUT THE WOOL,RAW(FRESH ETC)
2119	4	HIDES AND SKINS,N.E.S WASTE AND USED LEATHER
211A	4	HIDES AND SKINS (EXCEPT FURSKINS), RAW
211X	4	HIDES AND SKINS (EXCEPT FURSKINS), RAW
2120	.	FURSKINS, RAW (INCLUD.ASTRAKHAN,CARACUL, ETC.)
21XX	.	HIDES,SKINS AND FURSKINS,RAW
2221	.	GROUNDNUTS (PEANUTS),GREEN,WHETHER OR NOT SHELLED
2222	.	SOYA BEANS
2223	.	COTTON SEEDS
2224	.	SUNFLOWER SEEDS
2225	.	SESAME (SESAMUM) SEEDS
2226	.	RAPE AND COLZA SEEDS
222A	.	OIL SEEDS AND OLEAGINOUS FRUIT,WHOLE OR BROKEN
222X	.	OIL SEEDS AND OLEAGINOUS FRUIT,WHOLE OR BROKEN
2231	.	COPRA
2232	.	PALM NUTS AND PALM KERNELS
2234	.	LINSEED
2235	.	CASTOR OIL SEEDS
2238	.	OIL SEEDS AND OLEAGINOUS FRUIT. N.E.S.
2239	4	FLOURS OR MEALS/OIL SEEDS/OLEAG.FRUIT NON DEFATTED
223A	.	OILS SEEDS AND OLEAGINOUS FRUIT, WHOLE OR BROKEN
223X	.	OILS SEEDS AND OLEAGINOUS FRUIT, WHOLE OR BROKEN
22XX	.	OIL SEEDS AND OLEAGINOUS FRUIT
2320	.	NATURAL RUBBER LATEX; NAT.RUBBER & SIM.NAT.GUMS
2331	13	SYNTH.RUBB.LAT.;SYNTH.RUBB.FACTICE DERIV.FROM OILS
2332	15	RECLAIMED RUBBER;WASTE & SCRAP OF UNHARDENED RUBB.
233A	13	SYNTH.RUBB.LAT.;SYNTH.RUBB.& RECLAIMED;WASTE SCRAP
233X	13	SYNTH.RUBB.LAT.;SYNTH.RUBB.& RECLAIMED;WASTE SCRAP
23XX	13	CRUDE RUBBER (INCLUDING SYNTHETIC AND RECLAIMED)
2440	.	CORK,NATURAL,RAW & WASTE (INCLUD.IN BLOCKS/SHEETS)
2450	30	FUEL WOOD (EXCLUDING WOOD WASTE) AND WOOD CHARCO
2460	30	PULPWOOD (INCLUDING CHIPS AND WOOD WASTE)
2471	30	SAWLOGS AND VENEER LOGS,OF CONIFEROUS SPECIES
2472	30	SAWLOGS AND VENEER LOGS,OF NON CONIFEROUS SPECIES
2479	30	PITPROPS,POLES,PILING,POSTS & OTHER WOOD IN ROUGH
247A	30	OTHER WOOD IN THE ROUGH OR ROUGHLY SQUARED
247X	30	OTHER WOOD IN THE ROUGH OR ROUGHLY SQUARED
2481	30	RAILWAY OR TRAMWAY SLEEPERS (TIES)OF WOOD
2482	30	WOOD OF CONIFEROUS SPECIES,SAWN,PLANED,TONGUED ET
2483	30	WOOD OF NON-CONIFEROUS SPECIES,SAWN,PLANED,TONGUE
248A	30	WOOD,SIMPLY WORKED,AND RAILWAY SLEEPERS OF WOOD
248X	30	WOOD,SIMPLY WORKED,AND RAILWAY SLEEPERS OF WOOD
24XX	30	CORK AND WOOD
2511	8	WASTE PAPER,PAPERBOARD;ONLY FOR USE PAPER-MAKING
2512	7	MECHANICAL WOOD PULP
2516	7	CHEMICAL WOOD PULP,DISSOLVING GRADES
2517	7	CHEMICAL WOOD PULP,SODA OR SULPHATE
2518	7	CHEMICAL WOOD PULP,SULPHITE
2519	7	OTHER CELLULOSIC PULPS
251A	7	PULP AND WASTE PAPER
251X	7	PULP AND WASTE PAPER
25XX	7	PULP AND WASTE PAPER
2613	.	RAW SILK (NOT THROWN)

2614	.	SILK WORM COCOONS SUITABL.FOR REELING & SILK WASTE
261A	.	SILK
261X	.	SILK
2631	.	COTTON (OTHER THAN LINTERS), NOT CARDED OR COMBED
2632	4	COTTON LINTERS
2633	5	COTTON WASTE (INCLUDING PULLED OR GARNETTED RAGS)
2634	5	COTTON, CARDED OR COMBED
263A	.	COTTON
263X	.	COTTON
2640	.	JUTE & OTHER TEXTILE BAST FIBRES, NES, RAW/PROCESSED
2651	.	FLAX & RAMIE, FLAX TOW, RAMIE NOILS, & WASTE OF FLAX
2652	.	TRUE HEMP, RAW OR PROCESSED, NOT SPUN; TOW AND WASTE
2654	.	SISAL & OTHER FIBRES OF AGAVE FAMILY, RAW OR PROCE.
2655	.	MANILA HEMP, RAW OR PROCESSED, NOT SPUN; TOW & WASTE
2659	.	VEGETABLE TEXTILE FIBRES, N.E.S. AND WASTE
265A	.	VEGETABLE TEXTILE FIBRES AND WASTE OF SUCH FIBRES
265X	.	VEGETABLE TEXTILE FIBRES AND WASTE OF SUCH FIBRES
2665	13	SYNTH.FIBR.NOT CARDED, COMBED OR OTHERWISE PREPARE
2666	13	CONTINUOUS FILAMENT TOW FOR THE MANUFAC.OF FIBRES
2667	13	SYNTH.FIBRES, CARDED, COMBED OR OTHERWISE PREPARED
266A	13	SYNTHETIC FIBRES SUITABLE FOR SPINNING
266X	13	SYNTHETIC FIBRES SUITABLE FOR SPINNING
2671	13	REGENERATED FIBRES SUITABLE FOR SPINNING
2672	13	WASTE OF MAN-MADE FIBRES, NOT CARDED, COMBED
267A	13	OTHER MAN-MADE FIBRES SUITABL.FOR SPINNING & WASTE
267X	13	OTHER MAN-MADE FIBRES SUITABL.FOR SPINNING & WASTE
2681	.	SHEEPS OR LAMBSWOOL, GREASY OR FLEECE-WASHED
2682	.	SHEEPS OR LAMBSWOOL, DEGREASED, IN THE MASS
2683	.	FINE ANIMAL HAIR, NOT CARDED OR COMBED
2685	.	HORSEHAIR & OTHER COARSE ANIMAL HAIR (EXCL.WOOL)
2686	5	WASTE OF SHEEPS/LAMBS WOOL OR OF OTHER ANIM.HAIR
2687	5	SHEEPS/LAMBS WOOL/OTHER AIMAL HAIR, CARDED/COMBED
268A	.	WOOL AND OTHER ANIMAL HAIR (EXCLUDING WOOL TOPS)
268X	.	WOOL AND OTHER ANIMAL HAIR (EXCLUDING WOOL TOPS)
2690	5	OLD CLOTHING AND OTHER OLD TEXTILE ARTICLES; RAGS
26XX	.	TEXTILE FIBRES (EXCEPT WOOL TOPS) AND THEIR WASTES
2711	.	GUANO & OTHER NATURAL ANIMAL/VEGETABLE FERTILIZERS
2712	.	SODIUM NITRATE, NATURAL, CONTAIN.<16.3% OF NITROGEN
2713	.	NATURAL CALCIUM PHOSPHAT., NATUR.ALUMINIUM C. PHOS.
2714	.	POTASSIUM SALTS, NATURAL, CRUDE
271A	.	FERTILIZERS, CRUDE
271X	.	FERTILIZERS, CRUDE
2731	.	BUILDING AND MONUMENTAL STONE NOT FURTHER WORKED
2732	.	GYPNUM, PLASTERS, LIMESTONE FLUX & CALCAREOUS STONE
2733	.	SANDS, NATURAL, OF ALL KINDS, WHETHER OR NOT COLOURED
2734	.	PEBBLES AND CRUSHED OR BROKEN STONE.GRAVEL, MACADA
273A	.	STONE, SAND AND GRAVEL
273X	.	STONE, SAND AND GRAVEL
2741	.	SULPHUR OF ALL KINDS
2742	.	IRON PYRITES, UNROASTED
274A	.	SULPHUR AND UNROASTED IRON PYRITES
274X	.	SULPHUR AND UNROASTED IRON PYRITES
2771	32	INDUSTRIAL DIAMONDS, SORTED, WHETHER OR NOT WORKED
2772	.	NATURAL ABRASIVES, N.E.S.
277A	.	NATURAL ABRASIVES, N.E.S (INCL.INDUSTRIAL DIAMONDS)
277X	.	NATURAL ABRASIVES, N.E.S (INCL.INDUSTRIAL DIAMONDS)
2782	.	CLAY AND OTHER REFRACTORY MINERALS, N.E.S.
2783	14	COMMON SALT; ROCK SAT, SEA SALT; PUR.SODIUM CHRLORIDE
2784	.	ASBESTOS
2785	.	QUARTZ, MICA, FELSPAR, FLUORSPAR, CRYOLITE & CHIOLITE
2786	.	SLAG, DROSS, SCALINGS AND SIMILAR WASTE, N.E.S.
2789	.	MINERALS, CRUDE, N.E.S.
278A	.	OTHER CRUDE MINERALS
278X	.	OTHER CRUDE MINERALS
27XX	.	CRUDE FERTILIZERS AND CRUDE MATERIALS (EXCL.COAL)
2814	.	ROASTED IRON PYRITES, WHETHER OR NOT AGGLOMERATED
2815	.	IRON ORE AND CONCENTRATES, NOT AGGLOMERATED
2816	.	IRON ORE AGGLOMERATES (SINTERS, PELLETS, BRIQUETTES)
281A	.	IRON ORE AND CONCENTRATES
281X	.	IRON ORE AND CONCENTRATES
2820	.	WASTE AND SCRAP METAL OF IRON OR STEEL
2860	.	ORES AND CONCENTRATES OF URANIUM AND THORIUM
2871	.	COPPER ORES & CONCENTRATES; COPPER MATTE
2872	.	NICKEL ORES AND CONCENTRATES; NICKEL MATTES ETC.
2873	13	ALUMINIUM ORES AND CONCENTRATES (INCLUD.ALUMINA)
2874	.	LEAD ORES AND CONCENTRATES
2875	.	ZINC ORES AND CONCENTRATES
2876	.	TIN ORES AND CONCENTRATES
2877	.	MANGANESE ORES AND CONCENTRATES
2879	.	ORES & CONCENTRAT.OF OTHER NON-FERROUS BASE METAL

287A	.	ORES AND CONCENTRATES OF BASE METALS, N.E.S.
287X	.	ORES AND CONCENTRATES OF BASE METALS, N.E.S.
2881	.	ASH & RESIDUES, CONTAIN METALS/METALLIC COMPOUNDS
2882	.	OTHER NON-FERROUS BASE METAL WASTE AND SCRAP, N.E.S.
288A	.	NON-FERROUS BASE METAL WASTE AND SCRAP, N.E.S.
288X	.	NON-FERROUS BASE METAL WASTE AND SCRAP, N.E.S.
2890	.	ORES & CONCENTRATES OF PRECIOUS METALS; WASTE, SCRA
28XX	.	METALLIFEROUS ORES AND METAL SCRAP
2911	.	BONES, HORNS, IVORY, HOOVES, CLAWS, CORAL, SHELLS ETC.
2919	.	OTHER MATERIALS OF ANIMAL ORIGIN, N.E.S.
291A	.	CRUDE ANIMAL MATERIALS, N.E.S.
291X	.	CRUDE ANIMAL MATERIALS, N.E.S.
2922	.	SHELLAC, SEED LAC, STICK LAC, RESINS, GUM-RESINS, ETC.
2923	.	VEGET. MATER. OF A KIND USED PRIMAR. FOR PLAITING
2924	.	PLANTS, SEEDS, FRUIT USED IN PERFUMERY, PHARMACY
2925	.	SEEDS, FRUIT & SPORES, NES, OF A KIND USED FOR SOWING
2926	.	BULBS, TUBERS & RHIZOMES OF FLOWERING OR OF FOLIAGE
2927	.	CUT FLOWERS AND FOLIAGE
2929	.	OTHER MATERIALS OF VEGETABLE ORIGIN, N.E.S.
292A	.	CRUDE VEGETABLE MATERIALS, N.E.S.
292X	.	CRUDE VEGETABLE MATERIALS, N.E.S.
29XX	.	CRUDE ANIMAL AND VEGETABLE MATERIALS, N.E.S.
2XXX	.	CRUDE MATERIALS, INEDIBLE, EXCEPT FUELS
3221	.	ANTHRACITE, WHETHER/NOT PULVERIZED, NOT AGGLOMERATE
3222	.	OTHER COAL, WHETHER/NOT PULVERIZED, NOT AGGLOMERAT
3223	.	LIGNITE, WHETHER OR NOT PULVERIZED, NOT AGGLOMERATED
3224	.	PEAT, WHETHER/NOT COMPRES. INTO BALES NOT AGGLOMERA
322A	.	COAL, LIGNITE AND PEAT
322X	.	COAL, LIGNITE AND PEAT
3231	.	BRIQUET. OVOIDS & SIM. SOLID FUELS, OF COAL PEAT LIG.
3232	.	COKE AND SEMI-COKE OF COAL OF LIGNITE OR OF PEAT
323A	.	BRIQUETTES; COKE AND SEMI-COKE OF COAL, LIGNITE/PEAT
323X	.	BRIQUETTES; COKE AND SEMI-COKE OF COAL, LIGNITE/PEAT
32XX	.	COAL, COKE AND BRIQUETTES
3330	.	PETROL. OILS & CRUDE OILS OBT. FROM BITUMIN. MINERALS
3341	.	MOTOR SPIRIT AND OTHER LIGHT OILS
3342	.	KEROSENE AND OTHER MEDIUM OILS
3343	.	GAS OILS
3344	.	FUEL OILS, N.E.S.
3345	.	LUBRICATING PETROL. OILS & OTHER HEAVY PETROL. OILS
334A	.	PETROLEUM PRODUCTS, REFINED
334X	.	PETROLEUM PRODUCTS, REFINED
3351	.	PETROLEUM JELLY AND MINERAL WAXES
3352	13	MINERAL TARS AND PRODUCTS OF THEIR DISTILLATION
3353	.	PITCH & PITCH COKE OBTAIN. FROM COAL TAR/MINER. TARS
3354	.	PETROLEUM BITUMEN, PETROL. COKE & BITUMIN. MIXTUR. NES
3359	.	PETROLEUM OIL PREP & RESIDUES NES
335A	.	RESIDUAL PETROLEUM PRODUCTS, NES. & RELAT. MATERIALS
335X	.	RESIDUAL PETROLEUM PRODUCTS, NES. & RELAT. MATERIALS
33XX	.	PETROLEUM, PETROLEUM PRODUCTS AND RELATED MATERIAL
3413	.	PETROLEUM GASES AND OTHER GASEOUS HYDROCARBONS
3414	.	PETROLEUM GASES AND OTHER GASEOUS HYDROCARBONS N
3415	.	COAL GAS, WATER GAS, PRODUCER GAS & SIMILAR GASES
341A	.	GAS, NATURAL AND MANUFACTURED
341X	.	GAS, NATURAL AND MANUFACTURED
34XX	.	GAS, NATURAL AND MANUFACTURED
3510	.	ELECTRIC CURRENT
3XXX	.	MINERAL FUELS, LUBRICANTS AND RELATED MATERIALS
4111	4	FATS AND OILS OF FISH AND MARINE MAMMALS
4113	4	ANIMAL OILS, FATS AND GREASES, N.E.S.
411A	4	ANIMAL OILS AND FATS
411X	4	ANIMAL OILS AND FATS
41XX	4	ANIMAL OILS AND FATS
4232	4	SOYA BEAN OIL
4233	4	COTTON SEED OIL
4234	4	GROUNDNUT (PEANUT) OIL
4235	4	OLIVE OIL
4236	4	SUNFLOWER SEED OIL
4239	4	OTHER SOFT FIXED VEGETABLE OILS
423A	4	FIXED VEGETABLE OILS, SOFT, CRUDE, REFINED/PURIFIED
423X	4	FIXED VEGETABLE OILS, SOFT, CRUDE, REFINED/PURIFIED
4241	4	LINSEED OIL
4242	4	PALM OIL
4243	4	COCONUT (COPRA) OIL
4244	4	PALM KERNEL OIL
4245	4	CASTOR OIL
4249	4	FIXED VEGETABLE OILS, N.E.S.
424A	4	OTHER FIXED VEGETABLE OILS, FLUID OR SOLID, CRUDE
424X	4	OTHER FIXED VEGETABLE OILS, FLUID OR SOLID, CRUDE
42XX	4	FIXED VEGETABLE OILS AND FATS

4311	4	OILS, ANIMAL & VEGETABLE, BOILED, OXIDIZED, ETC.
4312	4	ANIM./VEGET. OILS & FATS, WHOLLY/PARTLY HYDROGENATED
4313	14	FATTY ACIDS, ACID OILS, AND RESIDUES
4314	14	WAXES OF ANIMAL OR VEGETABLE ORIGIN
431A	14	ANIMAL & VEGETABLE OILS AND FATS, PROCESSED & WAXES
431X	14	ANIMAL & VEGETABLE OILS AND FATS, PROCESSED & WAXES
43XX	14	ANIMAL-VEGETABLE OILS-FATS, PROCESSED, AND WAXES
4XXX	4	ANIMAL AND VEGETABLE OILS, FATS AND WAXES
5111	13	ACYCLIC HYDROCARBONS
5112	13	CYCLIC HYDROCARBONS
5113	13	HALOGENATED DERIVATIVES OF HYDROCARBONS
5114	13	SULPHON. NITRAT./NITROSAT. DERIVATIV. OF HYDROCARBONS
5119	.	HYDROCARBONS & DERIVATIVES NES
511A	13	HYDROCARBONS NES, & THEIR HALOGEN. & ETC. DERIVATIVES
511X	13	HYDROCARBONS NES, & THEIR HALOGEN. & ETC. DERIVATIVES
5121	13	ACYCLIC ALCOHOLS & THEIR HALOGENATED, DERIVATIVES
5122	13	CYCLIC ALCOHOLS & THEIR HALOGENATED DERIVATIVES
5123	13	PHENOLS & PHEN.-ALCO. & THEIR HALOGENAT. DERIVATIVES
512A	13	ALCOHOLS, PHENOLS, PHENOL-ALCOHOLS, & THEIR DERIVAT.
512X	13	ALCOHOLS, PHENOLS, PHENOL-ALCOHOLS, & THEIR DERIVAT.
5137	13	MONOCARBOXYLIC ACIDS & THEIR ANHYDRIDES, HALIDES,
5138	13	POLYCARBOXYLIC ACIDS & THEIR ANHYDRIDES, ETC.
5139	13	CARBOXYLIC ACIDS WITH ALCOHOL, PHENOL, ETC. FUNCTION
513A	13	CARBOXYLIC ACIDS, & THEIR ANHYDRIDES, HALIDES, ETC.
513X	13	CARBOXYLIC ACIDS, & THEIR ANHYDRIDES, HALIDES, ETC.
5145	13	AMINE-FUNCTION COMPOUNDS
5146	13	SINGLE OR COMPLEX OXYGEN-FUNCTION AMINO-COMPOUNDS
5147	13	CARBOXYAMIDE-FUNCTION COMPOUNDS; & OTHER COMPOUN
5148	13	OTHER NITROGEN-FUNCTION COMPOUNDS
514A	13	NITROGEN-FUNCTION COMPOUNDS
514X	13	NITROGEN
5154	13	ORGANO-SULPHUR COMPOUNDS
5155	13	OTHER ORGANO-INORGANIC COMPOUNDS
5156	13	HETEROCYCLIC COMPOUNDS; NUCLEIC ACIDS
5157	13	SULPHONAMIDES, SULTONES AND SULTAMS
515A	13	ORGANO-INORGANIC AND HETEROCYCLIC COMPOUNDS
515X	13	ORGANO-INORGANIC AND HETEROCYCLIC COMPOUNDS
5161	13	ETHERS, ALCOHOL PEROXIDES, ETHER PEROX., EPOXIDES ETC
5162	13	ALDEHYDE-, KETONE-, & QUINONE-FUNCTION COMPOUNDS
5163	13	INORGANIC ESTERS, THEIR SALTS, & THEIR DERIVATIVES
5169	13	ORGANIC CHEMICALS, N.E.S
516A	13	OTHER ORGANIC CHEMICALS
516X	13	OTHER ORGANIC CHEMICALS
51XX	13	ORGANIC CHEMICALS
5221	13	CHEMICAL ELEMENTS
5222	13	INORGANIC ACIDS AND OXYGEN COMPOUNDS OF NON-METAL
5223	13	HALOGEN AND SULPHUR COMPOUNDS OF NON-METALS
5224	13	METALLIC OXIDES OF ZINC, CHROMIUM, MANGANESE, IRON,
5225	13	OTH. INORG. BASES & METALLIC OXID., HYDROXID. & PEROX.
522A	13	INORGANIC CHEMICAL ELEMENTS, OXIDES & HALOGEN SALTS
522X	13	INORGANIC CHEMICAL ELEMENTS, OXIDES & HALOGEN SALTS
5231	13	METALLIC SALTS AND PEROXYSALTS OF INORGANIC ACIDS
5232	13	METALLIC SALTS AND PEROXYSALTS OF INORGANIC ACIDS
5233	13	SALTS OF METALLIC ACIDS; ETC.
5239	13	INORGANIC CHEMICAL PRODUCTS, N.E.S
523A	13	OTHER INORGANIC CHEMICALS
523X	13	OTHER INORGANIC CHEMICALS
5241	13	FISSILE CHEMICAL ELEMENTS AND ISOTOPES
5249	13	OTHER RADIO-ACTIVE AND ASSOCIATED MATERIALS
524A	13	RADIO-ACTIVE AND ASSOCIATED MATERIALS
524X	13	RADIO-ACTIVE AND ASSOCIATED MATERIALS
52XX	13	INORGANIC CHEMICALS
5311	13	SYNTHETIC ORGANIC DYESTUFFS
5312	13	SYNTH. ORGANIC LUMINOPHORES; OPTIC. BLEACHING AGENTS
531A	13	SYNTH. ORG. DYESTUFFS, ETC. NAT. INDIGO & COLOUR LAKES
531X	13	SYNTH. ORG. DYESTUFFS, ETC. NAT. INDIGO & COLOUR LAKES
5322	13	TANNING EXTRACTS OF VEGET. ORIGIN; TAN. & DERIVATIVES
5323	13	SYNTH. ORG. TANNING SUBSTANCES, & INORG. TANNING SUBST
532A	13	DYEING & TANNING EXTRACTS; SYNTH. TANNING MATERIALS
532X	13	DYEING & TANNING EXTRACTS; SYNTH. TANNING MATERIALS
5331	14	OTHER COLOURING MATTER
5332	14	PRINTING INK
5334	14	VARNISHES AND LACOUERS; DISTEMPERS, WATER PIGMENTS
5335	14	COLOUR. PREPTNS OF A KIND USED IN CERAMIC, ENAMELLI.
533A	14	PIGMENTS, PAINTS, VARNISHES & RELATED MATERIALS
533X	14	PIGMENTS, PAINTS, VARNISHES & RELATED MATERIALS
53XX	14	DYEING, TANNING AND COLOURING MATERIALS
5411	10	PROVITAMINS & VITAMINS, NATURAL/REPRODUCED BY SYNTHESIS
5413	10	ANTIBIOTICS N.E.S., NOT INCL. IN 541.7
5414	10	VEGETAB. ALKALOIDS, NATURAL/REPRODUCED BY SYNTHESIS

5415	10	HORMONES,NATURAL OR REPRODUCED BY SYNTHESIS
5416	10	GLYCOSIDES;GLANDS OR OTHER ORGANS & THEIR EXTRACTS
5417	10	MEDICAMENTS(INCLUDING VETERINARY MEDICAMENTS)
5419	10	PHARMACEUTICAL GOODS,OTHER THAN MEDICAMENTS
541A	10	MEDICINAL AND PHARMACEUTICAL PRODUCTS
541X	10	MEDICINAL AND PHARMACEUTICAL PRODUCTS
54XX	10	MEDICINAL AND PHARMACEUTICAL PRODUCTS
5513	13	ESSENTIAL OILS,CONCRETES & ABSOLUTES:RESINOIDS
5514	13	MIXTURES OF TWO OR MORE ODORIFEROUS SUBSTANCES
551A	13	ESSENTIAL OILS,PERFUME AND FLAVOUR MATERIALS
551X	13	ESSENTIAL OILS,PERFUME AND FLAVOUR MATERIALS
5530	11	PERFUMERY,COSMETICS AND TOILET PREPARATIONS
5541	11	SOAP;ORGANIC SURFACE-ACTIVE PRODUCTS & PREPARATNS
5542	11	ORGANIC SURFACE-ACTIVE AGENTS,N.E.S.
5543	11	POLISHES & CREAMS,FOR FOOTWEAR,FURNITURE OR FLOOR
554A	11	SOAP,CLEANSING AND POLISHING PREPARATIONS
554X	11	SOAP,CLEANSING AND POLISHING PREPARATIONS
55XX	11	ESSENTIAL OILS & PERFUME MAT.;TOILET-CLEANSING MAT
5621	12	MINERAL OR CHEMICAL FERTILIZERS,NITROGENOUS
5622	12	MINERAL OR CHEMICAL FERTILIZERS,PHOSPHATIC
5623	13	MINERAL OR CHEMICAL FERTILIZERS.POTASSIC
5629	12	FERTILIZERS,N.E.S.
562A	12	FERTILIZERS,MANUFACTURED
562X	12	FERTILIZERS,MANUFACTURED
56XX	12	FERTILIZERS,MANUFACTURED
5721	14	PROPELLENT POWDERS AND OTHER PREPARED EXPLOSIVES
5722	14	SAFETY FUSES,DETONATING FUS.;PERCUSSION & DET.CAPS
5723	14	PYROTECHNIC ARTICLES:(FIREWORK,RAILWAY FOG ETC.)
572A	14	EXPLOSIVES AND PYROTECHNIC PRODUCTS
572X	14	EXPLOSIVES AND PYROTECHNIC PRODUCTS
57XX	14	EXPLOSIVES AND PYROTECHNIC PRODUCTS
5821	13	PHENOPLASTS
5822	13	AMINOPLASTS
5823	13	ALKYDS AND OTHER POLYESTERS
5824	13	POLYAMIDES
5825	13	POLYURETHANES
5826	13	EPOXIDE RESINS
5827	13	SILICONES
5828	13	ION EXCHANGERS OF CONDENSATION,POLYCONDENSAT.ETC.
5829	13	OTHER CONDENSATION,POLYCONDENSATION/POLYADD.PROD
582A	13	CONDENSATION,POLYCONDENSATION & POLYADDITION PROD
582X	13	CONDENSATION,POLYCONDENSATION & POLYADDITION PROD
5831	13	POLYETHYLENE
5832	13	POLYPROPYLENE
5833	13	POLYSTYRENE AND ITS COPOLYMERS
5834	13	POLYVINYL CHLORIDE
5835	13	COPOLYMERS OF VINYL CHLORIDE AND VINYL ACETATE
5836	13	ACRYLIC POLYMERS,METHACRYLIC POLYMERS, ETC.
5837	13	POLYVINYL ACETATE
5838	13	ION EXCHANGERS OF POLYMERIZATION/COPOLYMERIZ.TYPE
5839	13	OTHER POLYMERIZATION AND COPOLYMERIZATION PRODUCTS
583A	13	POLYMERIZATION AND COPOLYMERIZATION PRODUCTS
583X	13	POLYMERIZATION AND COPOLYMERIZATION PRODUCTS
5841	13	REGENERATED CELLULOSE
5842	13	CELLULOSE NITRATES
5843	13	CELLULOSE ACETATES
5849	13	OTHER CHEMICAL DERIVATIVES OF CELLULOSE
584A	13	REGENERATED CELLULOSE;CELLULOSE NITRATE,ETC.
584X	13	REGENERATED CELLULOSE;CELLULOSE NITRATE,ETC.
5851	13	NATURAL RESINS MODIFIED BY FUSION;ARTIFIC.RESINS
5852	13	OTHER ARTIFICIAL PLASTIC MATERIALS,N.E.S.
585X	13	OTHER ARTIFICIAL RESINS AND PLASTIC MATERIALS
58XX	13	ARTIF.RESINS,PLASTIC MAT.,CELLULOSE ESTERS/ETHERS
5911	12	INSECTICIDES PACKED FOR SALE ETC.
5912	12	FUNGICIDES PACKED FOR SALE ETC.
5913	12	WEED KILLERS (HERBICIDES)PACKED FOR SALE ETC.
5914	12	DISINFECT.,ANTI-SPROUTING PROD.ETC.PACKED FOR SALE
591A	12	DISINFECTANTS,INSECTICIDES,FUNGICIDES,WEED KILLERS
591X	12	DISINFECTANTS,INSECTICIDES,FUNGICIDESWEED KILLERS
5921	14	STARCHES,INULIN AND WHEAT GLUTEN
5922	14	ALBUMINOIDAL SUBSTANCES;GLUES
592A	14	STARCHES,INULIN & WHEAT GLUTEN;ALBUMINOIDAL SUBST.
592X	14	STARCHES,INULIN &WHEAT GLUTEN;ALBUMINOIDAL SUBST.
5981	13	WOOD- AND RESIN-BASED CHEMICAL PRODUCTS
5982	14	ANTI-KNOCK PREPARATIONS,OXIDATION INHIBITORS ETC.
5983	14	ORGANIC CHEMICAL PRODUCTS,N.E.S.
5989	14	CHEMICAL PRODUCTS AND PREPARATIONS,N.E.S.
598A	14	MISCELLANEOUS CHEMICAL PRODUCTS,N.E.S.
598X	14	MISCELLANEOUS CHEMICAL PRODUCTS,N.E.S.
59XX	14	CHEMICAL MATERIALS AND PRODUCTS,N.E.S.

5XXX	13	CHEMICALS AND RELATED PRODUCTS, N.E.S.
6112	6	COMPOSITION LEATHER FIBRE, IN SLABS ETC., SHEETS, ETC
6113	6	CALFLEATHER
6114	6	LEATHER OF OTHER BOVINE CATTLE AND EQUINE LEATHER
6115	6	SHEEP AND LAMB SKIN LEATHER
6116	6	LEATHER OF OTHER HIDES OR SKINS
6118	6	LEATHER, SPECIALLY DRESSED OR FINISED
611A	6	LEATHER
611X	6	LEATHER
6121	6	ARTICLES OF LEATHER OR OF COMPOSITION LEATHER
6122	6	SADDLERY AND HARNESS, OR ANY MATERIAL FOR ANIMALS
6123	6	PARTS OF FOOTWEAR
6129	6	OTHER ARTICLES OF LEATHER OR OF COMPOSIT. LEATHER
612A	6	MANUFACTURES OF LEATHER/OF COMPOSITION LEATHER NES
612X	6	MANUFACTURES OF LEATHER/OF COMPOSITION LEATHER NES
6130	34	FURSKINS, TANNED/DRESSED, PIECES/CUTTINGS OF FURSKIN
61XX	6	LEATHER, LEATHER MANUF., N.E.S. AND DRESSED FURSKING
6210	15	MATERIALS OF RUBBER (E.G., PASTES, PLATES, SHEETS, ETC)
6251	15	TYRES, PNEUMATIC, NEW, OF A KIND USED ON MOTOR CARS
6252	15	TYRES, PNEUMAT., NEW, OF A KIND USED ON BUSES, LORRIES
6253	15	TYRES, PNEUMATIC, NEW, OF A KIND USED ON AIRCRAFT
6254	15	TYRES, PNEUM. NEW OF A KIND USED ON MOTOR/BICYCLES
6259	15	OTHER TYRES, TYRE CASES, INNER TUBES
625A	15	RUBBER TYRES, TYRE CASES, ETC. FOR WHEELS
625X	15	RUBBER TYRES, TYRE CASES, ETC. FOR WHEELS
6281	15	HYGIENIC AND PHARMACEUTICAL ARTICLES OF RUBBER
6282	15	TRANSMISSION, CONVEYOR/ELEVATOR BELTS OF RUBBER
6289	15	OTHER ARTICLES OF RUBBER, N.E.S.
628A	15	ARTICLES OF RUBBER, N.E.S.
628X	15	ARTICLES OF RUBBER, N.E.S.
62XX	15	RUBBER MANUFACTURES, N.E.S.
6330	.	CORK MANUFACTURES
6341	30	WOOD SAWN LENGTHWISE, SLICED/PEELED, BUT NOT PREPAR.
6342	30	PLYWOOD CONSISTING OF SHEETS OF WOOD
6343	30	IMPROVED WOOD AND RECONSTITUTED WOOD
6344	30	WOOD-BASED PANELS, N.E.S.
6349	30	WOOD, SIMPLY SHAPED, N.E.S.
634A	30	VENEERS, PLYWOOD, IMPROVED OR RECONSTITUTED WOOD
634X	30	VENEERS, PLYWOOD, IMPROVED OR RECONSTITUTED WOOD
6351	.	WOODEN PACKING CASES, BOXES, CRATES, DRUMS ETC.
6352	.	CASKS, BARRELS, VATS, TUBS, BUCKETS & OTH. COOPERSPROD
6353	.	BUILDERS CARPENTRY AND JOINERY
6354	.	MANUFACTURES OF WOOD FOR DOMESTIC/DECORATIVE USE
6359	.	MANUFACTURED ARTICLES OF WOOD, N.E.S.
635A	.	WOOD MANUFACTURES, N.E.S.
635X	.	WOOD MANUFACTURES, N.E.S.
63XX	30	CORK AND WOOD MANUFACTURES (EXCL. FURNITURE)
6411	7	NEWSPRINT
6412	7	PRINTING PAPER & WRITING PAPER, IN ROLLS OR SHEETS
6413	7	KRAFT PAPER AND PAPERBOARD, IN ROLLS OR SHEETS
6415	7	PAPER AND PAPERBOARD, IN ROLLS OR SHEETS, N.E.S.
6416	7	BUILDING BOARD OF WOOD PULP OR OF VEGETABLE FIBRE
6417	7	PAPER & PAPERBOARD, CORRUGATED, CREPED/CRINKLED ETC
6418	7	PAPER & PAPERBOARD, IMPREGNAT. COAT. SURFACE-COLOURE
6419	7	CONVERTED PAPER AND PAPERBOARD, N.E.S.
641A	7	PAPER AND PAPERBOARD
641X	7	PAPER AND PAPERBOARD
6421	8	BOXES, BAGS & OTH. PACKING CONTAINERS, OF PAPER/PAPBD
6422	8	WRITING BLOCKS, ENVELOPES, ETC. CORRESPONDENCE CARD
6423	9	REGISTERS, EXERCISE BOOKS, NOTE BOOKS, ETC.
6424	8	PAPER AND PAPERBOARD, CUT TO SIZE OR SHAPE, N.E.S.
6428	8	ART. OF PAPER PULP, PAPER, PAPERBOARD, CELLU. WADDING
642A	8	PAPER AND PAPERBOARD, CUT TO SIZE OR SHAPE
642X	8	PAPER AND PAPERBOARD, CUT TO SIZE OR SHAPE
64XX	7	PAPER, PAPERBOARD, ARTIC. OF PAPER, PAPER-PULP/BOARD
6511	5	SILK YARN & YARN SPUN FROM NOIL/OTHER SILK WASTE
6512	5	YARN OF WOOL OR ANIMAL HAIR (INCLUDING WOOL TOPS)
6513	5	COTTON YARN
6514	5	YARN CONTAIN. 85% BY WGT. OF SYNTH. FIBRES, NOT F. SALE
6515	5	YARN CONTAIN. 85% BY WGT. OF SYNTH. FIBRES, FOR SALE
6516	5	YARN OF DISCONT. SYNTH. FIBRES, CONTAIN. LESS THAN 85%
6517	5	YARN OF REGENERATED FIBRES, NOT FOR RETAIL SALE
6518	5	YARN OF REGENERATED FIBRES, PUT UP FOR RETAIL SALE
6519	5	YARN OF TEXT. FIBRES, N.E.S., INCL. YARN OF GLASS FIB.
651A	5	TEXTILE YARN
651X	5	TEXTILE YARN
6521	5	COTTON FABRICS, WOVEN, UNBLEACHED, NOT MERCERIZED
6522	5	COTTON FABRICS, WOVEN, BLEACH. MERCERIZ. DYED, PRINTED
652A	5	COTTON FABRICS, WOVEN
652X	5	COTTON FABRICS, WOVEN

6531	5	FABRICS,WOVEN OF CONTINUOUS SYNTH.TEXTIL.MATERIALS
6532	5	FABRICS,WOVEN CONTAIN.85% OF DISCONTIN.SYNTH.FIBR.
6534	5	FABRICS,WOVEN,OF DISCONTINUOUS SYNTHETIC FIBRES
6535	5	FABRICS,WOVEN OF CONTIN.REGENERAT.TEXTIL.MATERIALS
6536	5	FABRICS,WOVEN CONTAIN.85% OF DISCONT.REGENER.FIBR.
6538	5	FABRICS,WOVEN OF DISCONTINUOUS REGENERATED FIBRES
6539	5	PILE & CHENILLE FABRICS,WOVEN OF MAN-MADE FIBRES
653A	5	FABRICS,WOVEN,OF MAN-MADE FIBRES
653X	5	FABRICS,WOVEN,OF MAN-MADE FIBRES
6541	5	FABRICS,WOVEN,OF SILK,OF NOIL OR OTHER WASTE SILK
6542	5	FABRICS,WOVEN,CONTAIN.85% OF WOOL/FINE ANIMAL HAIR
6543	5	FABRICS,WOVEN,OF WOOL OR OF FINE ANIMAL HAIR N.E.S
6544	5	FABRICS,WOVEN,OF FLAX OR OF RAMIE
6545	5	FABRICS,WOVEN,OF JUTE OR OF OTHER TEXTILE BAST FIB
6546	5	FABRICS OF GLASS FIBRE,PILE FAB.TULLE,LACE,KNITTED
6549	5	FABRICS,WOVEN,N.E.S.
654A	5	TEXTIL.FABRICS,WOVEN,OTH.THAN COTTON/MAN-MADE FIBR
654X	5	TEXTIL.FABRICS,WOVEN,OTH.THAN COTTON/MAN-MADE FIBR
6551	5	KNITTED/CROCH.FAB.NOT ELAST.NOR RUBBERIZ.OF SYNT.F
6552	5	KNITTED/CROCHETED FABRICS OF FIBRES OTH.THAN SYNTH
6553	5	KNITTED/CROCHETED FABRICS ELASTIC OR RUBBERIZED
655A	5	KNITTED OR CROCHETED FABRICS
655X	5	KNITTED OR CROCHETED FABRICS
6560	5	TULLE,LACE,EMBROIDERY,RIBBONS,& OTHER SMALL WARES
6571	5	FELT & ARTICL.OF FELT,NES,WHETHER/NOT IMPREGNATED
6572	5	BONDED FIBRE FABRICS,SIMILAR BONDED YARN FABRICS
6573	5	COATED/IMPREGNATED TEXTILE FABRICS & PRODUCTS NES.
6574	5	ELASTIC FABRICS AND TRIMMINGS
6575	5	TWINE,CORDAGE,ROPES & CABLES.& MANUFACTUR.THEREOF
6576	5	HAT SHAPES,HAT-FORMS,HAT BODIES AND HOODS
6577	5	WADDING.TEXTIL.FABRICS FOR USE IN MACHINERY/PLANT
6579	5	SPECIAL PRODUCTS OF TEXTILE MATERIALS
657A	5	SPECIAL TEXTILE FABRICS AND RELATED PRODUCTS
657X	5	SPECIAL TEXTILE FABRICS AND RELATED PRODUCTS
6581	5	SACKS AND BAGS,OF TEXTILE MATERIALS
6582	5	TARPAULINS,SAILS,AWNINGS,SUNBLINDS,TENTS ETC.
6583	5	TRAVELLING RUGS AND BLANKETS,NOT KNITTED/CROCHETED
6584	5	BED LINEN,TABLE LINEN,TOILET & KITCHEN LINEN ETC.
6589	5	OTHER MADE-UP ARTICLES OF TEXTILE MATERIALS,N.E.S
658A	5	MADE-UP ARTICLES.WHOLLY/C-HIEFLY OF TEXT.MATERIALS
658X	5	MADE-UP ARTICLES,WHOLLY/CHIEFLY OF TEXT.MATERIALS
6591	34	LINOLEUM AND SIMILAR FLOOR COVERINGS
6592	5	CARPETS,CARPETING AND RUGS,KNOTTED
6593	5	KELEM,SCHUMACKS AND KARAMANIE RUGS AND THE LIKE
6594	5	CARPETS,CARPETING,RUGS,MATS & MATTING,OF WOOL ETC.
6595	5	CARPETS,RUGS ETC.OF MAN-MADE TEXTILE MATERIALS NES
6596	5	CARPETS,RUGS ETC.OF OTHER TEXTILE MATERIALS N.E.S.
6597	5	PLAITS AND SIMILAR PRODUCTS OF PLAITING MATERIALS
659A	5	FLOOR COVERINGS,ETC.
659X	5	FLOOR COVERINGS,ETC.
65XX	5	TEXTILE YARN,FABRICS,MADE-UPART.,RELATED PRODUCTS
6611	32	QUICKLIME,SLAKED LIME AND HYDRAULIC LIME
6612	32	PORTLAND CEMENT,CIMENT FONDU,SLAG CEMENT ETC.
6613	32	BUILDING & MONUMENTAL STONE,WORKED,& ARTIC.THEREOF
6618	32	CONSTRUCTN.MATER.OF ASBESTOS-CEMENT & FIBRE-CEMEN
661A	32	LIME,CEMENT,AND FABRICATED CONSTRUCTION MATERIALS
661X	32	LIME,CEMENT,AND FABRICATED CONSTRUCTION MATERIALS
6623	32	REFRACTORY BRICKS & OTHER REFRACT.CONSTRUCT.MATER
6624	32	NON-REFRACT.CERAMIC BRICKS,TILES,PIPES & SIM.PROD.
662A	32	CLAY CONSTRUCT.MATERIALS & REFRACTORY CONSTR.MATE
662X	32	CLAY CONSTRUCT.MATERIALS & REFRACTORY CONSTR.MATE
6631	32	HAND POLISHING STONES,WHETSTONES,OILSTONES,HONES
6632	32	NATURAL OR ARTIFICIAL ABRASIVE POWDER OR GRAIN
6633	32	MANUFACTURES OF MINERAL MATERIALS,N.E.S.
6635	32	SLAG WOOL.ROCK WOOL AND SIMILAR MINERAL WOOLS
6637	32	REFRACTORY GOODS(EG.,RETORTS,CRUJCIBLES ETC) N.E.S
6638	32	MANUFACTURES OF ASBESTOS: FRICTION MATERIALS
6639	32	ARTICLES OF CERAMIC MATERIALS,N.E.S.
663A	32	MINERAL MANUFACTURES,N.E.S
663X	32	MINERAL MANUFACTURES,N.E.S
6641	31	GLASS IN THE MASS,IN BALLS,RODS/TUBES;WASTE GLASS
6642	31	OPTICAL GLASS AND ELEMENTS OF OPTICAL GLASS
6643	31	DRAWN OR BLOWN GLASS,UNWORKED,IN RECTANGLES
6644	31	CAST,ROLLED,DRAWN OR BLOWN GLASS,IN RECTANGLES
6645	31	CASTOR ROLLED GLASS,UNWORKED,WHETHER FIGURED/NOT
6646	31	BRICKS,TILES,SLABS & OTH.ART.OF PRESSED/MOUL.GLASS
6647	31	SAFETY GLASS CONSISTING OF TOUGHENED/LAMINAT.GLASS
6648	31	GLASS MIRRORS(INCL.REAR-VIEW MIR.),UNFRAMED.FRAME
6649	31	GLASS,NE.ES.
664A	31	GLASS



664X	31	GLASS
6651	31	CONTAINERS, OF GLASS, USED FOR CONVEYANCE OR PACKING
6652	31	GLASSWARE USED FOR TABLE, KITCHEN, INDOOR DECORATION
6658	31	ARTICLES MADE OF GLASS, N.E.S
665A	31	GLASSWARE
665X	31	GLASSWARE
6664	32	TABLEWARE & OTHER ARTICLES OF PORCELAIN OR CHINA
6665	32	TABLEWARE & OTHER ARTICLES OF OTH.KINDS OF POTTERY
6666	32	STATUETTES & OTH.ORNAMENTS, & ARTICLES OF ADORNMENT
666A	32	POTTERY
666X	32	POTTERY
6671	34	PEARLS, UNWORKED/WORKED, NOT MOUNTED, SET OR STRUN
6672	34	DIAMONDS, UNWORK.CUT/OTHERWISE WORK.NOT MOUNTED/S
6673	34	OTH.PRECIOUS & SEMI-PRECIOUS STONES, UNWORK.CUT ETC
6674	34	SYNTHETIC/RECONSTRUCTED PRECIOUS/SEMI-PREC.STONES ETC
667A	34	PEARLS, PRECIOUS& SEMI-PREC.STONES, UNWORK./WORKED
667X	34	PEARLS, PRECIOUS& SEMI-PREC.STONES, UNWORK./WORKED
66XX	32	NON-METALLIC MINERAL MANUFACTURES, N.E.S.
6712	17	PIG IRON, CAST IRON AND SPIEGELEISEN, IN PIGS, BLOCKS
6713	17	IRON OR STEEL POWDERS, SHOT OR SPONGE
6716	17	FERRO-ALLOYS
671A	17	PIG IRON, SPIEGELEISEN, SPONGE IRON, IRON OR STEEL
671X	17	PIG IRON, SPIEGELEISEN, SPONGE IRON, IRON OR STEEL
6724	17	PUDDLED BARS AND PILINGS; INGOTS, BLOCKS, LUMPS ETC.
6725	17	BLOOMS, BILLETS, SLABS & SHEET BARS OF IRON OR STEEL
6727	17	IRON OR STEEL COILS FOR RE-ROLLING
672A	17	INGOTS AND OTHER PRIMARY FORMS, OF IRON OR STEEL
672X	17	INGOTS AND OTHER PRIMARY FORMS, OF IRON OR STEEL
6731	17	WIRE ROD OF IRON OR STEEL
6732	17	BAR & RODS, OF IRON/STEEL; HOLLOW MINING DRILL ST.
6733	17	ANGLES, SHAPES & SECTIONS & SHEET PILING, OF I RON/ST
673A	17	IRON AND STEEL BARS, RODS, ANGLES, SHAPES & SECTIONS
673X	17	IRON AND STEEL BARS, RODS, ANGLES. SHAPES & SECTIONS
6741	17	UNIVERSAL PLATES OF IRON OR STEEL
6744	17	SHEETS & PLATES, ROLLED >4.75MM OF IRON/STEEL
6745	17	SHEETS & PLATES, RLD.THICKNS.3MM TO 4,75MM IRN/STL.
6746	17	SHEETS & PLATES, ROLLED; THICKNESS OF LESS THAN 3MM.
6747	17	TINNED SHEETS AND PLATES, OF STEEL
6748	.	SHEET I/S ROLLED <3MM AND TINPLATE
6749	17	OTHER SHEETS AND PLATES, OF IRON OR STEEL, WORKED
674A	17	UNIVERSALS, PLATES AND SHEETS, OF IRON OR STEEL
674X	17	UNIVERSALS, PLATES AND SHEETS, OF IRON OR STEEL
6750	17	HOOP & STRIP, OF IRON/STEEL, HOT-ROLLED/COLD-ROLLED
6760	17	RAILS AND RAILWAY TRACK CONSTRUCTION MATERIAL
6770	17	IRON/STEEL WIRE/WHETH/NOT COATED, BUT NOT INSULATED
6781	17	TUBES AND PIPES, OF CAST IRON
6782	17	SEAMLESSTUBES AND PIPES; BLANKS FOR TUBES & PIPES
6783	17	OTHER TUBES AND PIPES, OF IRON OR STEEL
6784	17	HIGH-PRESSURE HYDRO-ELECTRIC CONDUITS OF STEEL
6785	19	TUBE & PIPE FITTINGS (JOINTS, ELBOWS) OF IRON/STEEL
678A	17	TUBES, PIPES AND FITTINGS, OF IRON OR STEEL
678X	17	TUBES, PIPES AND FITTINGS, OF IRON OR STEEL
6793	19	STEEL & IRON FORGINGS & STAMPINGS, IN ROUGH STATE
6794	17	CASTINGS OR IRON OR STEEL, IN THE ROUGH STATE
679A	17	IRON & STEEL CASTINGS, FORGINGS & STAMPINGS; ROUGH
679X	17	IRON & STEEL CASTINGS, FORGINGS & STAMPINGS; ROUGH
67XX	17	IRON AND STEEL
6811	18	SILVER, UNWROUGHT, UNWORKED OR SEMI-MANUFACTURED
6812	18	PLATINUM AND OTHER METALS OF THE PLATINUM GROUP
681A	18	SILVER, PLATINUM & OTH.METALS OF THE PLATINUM GROUP
681X	18	SILVER, PLATINUM & OTH.METALS OF THE PLATINUM GROUP
6821	18	COPPER AND COPPER ALLOYS, REFINED OR NOT, UNWROUGHT
6822	18	COPPER AND COPPER ALLOYS, WORKED
682A	18	COPPER
682X	18	COPPER
6831	18	NICKEL & NICKEL ALLOYS, UNWROUGHT (INGOTS, PIGS, ETC)
6832	18	NICKEL AND NICKEL ALLOYS. WORKED
683A	18	NICKEL
683X	18	NICKEL
6841	18	ALUMINIUM AND ALUMINIUM ALLOYS, UNWROUGHT
6842	18	ALUMINIUM AND ALUMINIUM ALLOYS, WORKED
684A	18	ALUMINIUM
684X	18	ALUMINIUM
6851	18	LEAD AND LEAD ALLOYS, UNWROUGHT
6852	18	LEAD AND LEAD ALLOYS, WORKED
685A	18	LEAD
685X	18	LEAD
6861	18	ZINC AND ZINC ALLOYS, UNWROUGHT
6863	18	ZINC AND ZINC ALLOYS, WORKED
686A	18	ZINC

686X	18	ZINC
6871	18	TIN AND TIN ALLOYS, UNWROUGHT
6872	18	TIN AND TIN ALLOYS, WORKED
687A	18	TIN
687X	18	TIN
6880	18	URANIUM DEPLETED IN U235 & THORIUM, & THEIR ALLOYS
6891	18	TUNGSTEN, MOLYBDENUM, TANTALUM & MAGNESIUM, UNWROU
6899	18	BASE METALS, N.E.S. AND CERMETS, UNWROUGHT
689A	18	MISCELL. NON-FERROUS BASE METALS EMPLOY. IN METALLGY
689X	18	MISCELL. NON-FERROUS BASE METALS EMPLOY. IN METALLGY
68XX	18	NON-FERROUS METALS
6911	19	STRUCTURES & PARTS OF STRUC.: IRON/STEEL; PLATES
6912	19	STRUCTURES & PARTS OF STRUC.; ALUMINIUM; PLATES, RODS
691A	19	STRUCTURES & PARTS OF STRUC.; IRON, STEEL, ALUMINIUM
691X	19	STRUCTURES & PARTS OF STRUC.; IRON, STEEL, ALUMINIUM
6921	19	RESERVOIRS, TANKS, VATS AND SIMILAR CONTAINERS
692A	19	CASKS, DRUMS, BOXES OF IRON/STEEL FOR PACKING GOODS
692A	19	METAL CONTAINERS FOR STORAGE AND TRANSPORT
692X	19	METAL CONTAINERS FOR STORAGE AND TRANSPORT
6931	18	STRANDED WIRE, CABLES, CORDAGES AND THE LIKE
6932	19	WIRE, TWISTED HOOP FOR FENCING OF IRON OR STEEL
6935	19	GAUZE, CLOTH, GRILL OF IRON STEEL OR COPPER
693A	18	WIRE PRODUCTS AND FENCING GRILLS
693X	18	WIRE PRODUCTS AND FENCING GRILLS
6940	19	NAILS, SCREWS, NUTS, BOLTS ETC. OF IRON, STEEL, COPPER
6951	19	HAND TOOLS OF A KIND USED IN AGRICULTURE ETC
6953	23	OTHER TOOLS FOR USE IN THE HAND
6954	23	INTERCHANGEABLE TOOLS FOR HAND & MACHINE TOOLS
695A	23	TOOLS FOR USE IN HAND OR IN MACHINES
695X	23	TOOLS FOR USE IN HAND OR IN MACHINES
6960	19	CUTLERY
6973	24	DOM ESTIC-TYPE, NON-ELECTRIC HEATING, COOKING APPAR.
6974	19	ART. COMMONLY USED FOR DOM. PURPOSES, POT SCOURERS
6975	19	SANITARY WARE FOR INDOOR USE, AND PARTS
6978	19	HOUSEHOLD APPUANCES, DECORATIVE ART., MIRRORS ETC.
697A	19	HOUSEHOLD EQUIPMENT OF BASE METAL, N.E.S.
697X	19	HOUSEHOLD EQUIPMENT OF BASE METAL, N.E.S.
6991	19	LOCKSMITHS WARES, SAFES, STRONG ROOMS OF BASE METAL
6992	19	CHAIN AND PARTS THEREOF, OF IRON OR STEEL
6993	34	PINS & NEEDLES, FITTINGS, BASE METAL BEADS, ETC.
6994	19	SPRINGS & LEAVES FOR SPRINGS, OF IRON/STEEL/COPPER
6996	19	MISCELLANEOUS ARTICLES OF BASE METAL
6997	19	ARTICLES OF IRON OR STEEL, N.E.S.
6998	19	ART., NES. OF COPPER, NICKEL, ALUMINIUM, LEAD, ZINC, TIN
6999	18	SEMI-MANUFACTURES OF TUNGSTEN, MOLYBDENUM ETC.
699A	19	MANUFACTURES OF BASE METAL, N.E.S.
699X	19	MANUFACTURES OF BASE METAL, N.E.S.
69XX	19	MANUFACTURES OF METAL, N.E.S.
6XXX	5	MANUFACTURED GOODS CLASSIFIED CHIEFLY BY MATERIAL
7111	19	STEAM & OTHER VAPOUR GENERATING BOILERS
7112	19	AUXILIARY PLANT FOR USE WITH BOILERS, CONDENSORS
7119	19	PARTS OF BOILERS & AUX. PLANT OF 711.1-/711.2-
711A	19	STEAM & OTHER VAPOUR GENERATING BOILERS & PARTS
711X	19	STEAM & OTHER VAPOUR GENERATING BOILERS & PARTS
7126	23	STEAM & OTHER VAPOUR POWER UNITS, STEAM ENGINES
7129	23	PARTS OF THE POWER UNITS OF 712.6-
712A	23	STEAM & OTHER VAPOUR POWER UNITS, STEAM ENGINES
712X	23	STEAM & OTHER VAPOUR POWER UNITS, STEAM ENGINES
7131	29	INTERNAL COMBUSTION PISTON ENGINES FOR AIRCRAFT
7132	28	INT.COMBUSTION PISTON ENGINES FOR PROPELLING VEH.
7133	28	INT.COMBUSTION PISTON ENGINES FOR MARINE PROPULS.
7138	28	INT.COMB.PISTON ENGINES, N.E.S.
7139	28	PARTS OF INT.COMB.PISTON ENGINES OF 713.2-/713.8-
713A	28	INTERNAL COMBUSTION PISTON ENGINES & PARTS
713X	28	INTERNAL COMBUSTION PISTON ENGINES & PARTS
7144	29	REACTION ENGINES
7148	23	GAS TURBINES, N.E.S.
7149	23	PARTS OF THE ENGINES & MOTORS OF 714-AND 718.8-
714A	23	ENGINES & MOTORS, NON-ELECTRIC
714X	23	ENGINES & MOTORS, NON-ELECTRIC
7161	27	MOTORS & GENERATORS, DIRECT CURRENT
7162	27	ELECT.MOTORS & GENERATORS, GENERATING SETS
7163	27	ROTARY CONVERTERS
7169	27	PARTS OF ROTATING ELECTRIC PLANT
716A	27	ROTATING ELECTRIC PLANT AND PARTS
716X	27	ROTATING ELECTRIC PLANT AND PARTS
7187	19	NUCLEAR REACTORS AND PARTS
7188	23	ENGINES & MOTORS, N.E.S. SUCH AS WATER TURBINES ETC.
718A	23	OTHER POWER GENERATING MACHINERY AND PARTS
718X	23	OTHER POWER GENERATING MACHINERY AND PARTS

71XX 28 POWER GENERATING MACHINERY AND EQUIPMENT  
 7211 20 AGRICULTURAL & HORTICUL.MACH. FOR SOIL PREPARAT  
 7212 20 HARVESTING & TRESHING MACHINERY AND PARTS  
 7213 20 DAIRY MACHINERY AND PARTS  
 7219 20 AGRIC.MACH.& APPLIANCES,N.E.S.AND PARTS  
 721A 20 AGRICULTURAL MACHINERY AND PARTS  
 721X 20 AGRICULTURAL MACHINERY AND PARTS  
 7223 21 TRACK-LAYING TRACTORS  
 7224 21 WHEELED TRACTORS,NOT INCL. IN 744.11/783.2-  
 722A 21 TRACTORS FITTED OR NOT WITH POWER TAKE-OFFS, ETC.  
 722X 21 TRACTORS FITTED OR NOT WITH POWER TAKE-OFFS, ETC.  
 7233 21 ROAD ROLLERS,MECHANICALLY PROPELLED  
 7234 21 CONSTRUCTION AND MINING MACHINERY,N.E.S.  
 7239 21 PARTS OF THE MACHINERY OF 723.41 TO 723.46  
 723A 21 CIVIL ENGINEERING & CONTRACTORS PLANT AND PARTS  
 723X 21 CIVIL ENGINEERING & CONTRACTORS PLANT AND PARTS  
 7243 24 SEWING MACHINES,FURNITURE FOR SEWING MACH.& PARTS  
 7244 23 MACH.FOR EXTRUDING MAN-MADE TEXTILES AND PARTS  
 7245 23 WEAVING,KNITTING MACH. FOR PREPARING YARNS,PARTS  
 7246 23 AUXIL.MACHINERY FOR HEADINGS 724.51/52/53  
 7247 23 MACH.FOR WASHING,CLEANING,DRYING,BLEACHING TEXT.  
 7248 23 MACH.FOR PREPARING,TANNING OR WORKING HIDES  
 724A 23 TEXTILE & LEATHER MACHINERY AND PARTS  
 724X 23 TEXTILE & LEATHER MACHINERY AND PARTS  
 7251 23 MACH. FOR MAK./FINIS. CELLUL. PULP,PAPER,PAPERBO.  
 7252 23 PAPER & PAPERBOARD CUTTING MACH.OF ALL KINDS  
 7259 23 PARTS OF THE MACH. OF 725--  
 725A 23 PAPER & PULP MILL MACH.,MACH FOR MANUF.OF PAPER  
 725X 23 PAPER & PULP MILL MACH.,MACH FOR MANUF.OF PAPER  
 7263 23 MACH.,APPAR.,ACCESS.FOR TYPE FOUNDING OR SETTING  
 7264 23 PRINTING PRESSES  
 7267 23 OTHER PRINTING MACH.FOR USES ANCILLARY TO PRINTING  
 7268 23 BOOKBINDING MACHINERY AND PARTS  
 7269 23 PARTS OF THE MACHINES OF 726.31,726.4-,726.7-  
 726A 23 PRINTING & BOOKBINDING MACH.AND PARTS  
 726X 23 PRINTING & BOOKBINDING MACH.AND PARTS  
 7271 23 MACH.FOR WORKING OF CEREALS OR DRIED VEGETABLES  
 7272 23 OTHER FOOD PROCESSING MACHINERY AND PARTS  
 727A 23 FOOD PROCESSING MACHINES AND PARTS  
 727X 23 FOOD PROCESSING MACHINES AND PARTS  
 7281 23 MACH.TOOLS FOR SPECIALIZED PARTICULAR INDUSTRIES  
 7283 21 MACH.FOR SORTING,SCREENING,SEPARATING,WASHING ORE  
 7284 23 MACH.& APPLIANCES FOR SPEZIALIZED PARTICULAR IND.  
 728A 23 MACH.& EQUIPMENT SPECIALIZED FOR PARTICULAR IND.  
 728X 23 MACH.& EQUIPMENT SPECIALIZED FOR PARTICULAR IND.  
 72XX 23 MACHINERY SPECIALIZED FOR PARTICULAR INDUSTRIES  
 7361 23 METAL CUTTING MACHINE-TOOLS  
 7362 23 METAL FORMING MACHINE TOOLS  
 7367 23 OTHER MACH.-TOOLS FOR WORKING METAL OR MET.CARBIDE  
 7368 23 WORK HOLDERS,SELF-OPENING DIEHEADS & TOOL HOLDERS  
 7369 23 PARTS OF THE MACHINE-TOOLS OF 736-  
 736A 23 MACH.TOOLS FOR WORKING METAL OR MET.CARB., PARTS  
 736X 23 MACH.TOOLS FOR WORKING METAL OR MET.CARB., PARTS  
 7371 23 CONVERTERS,LADLES,INGOT MOULDS AND CASTING MACH.  
 7372 23 ROLLING MILLS,ROLLS THEREFOR AND PARTS  
 7373 27 WELDING,BRAZING,CUTTING,SOLDERING MACHINES & PARTS  
 737A 23 METAL WORKING MACHINERY AND PARTS  
 737X 23 METAL WORKING MACHINERY AND PARTS  
 73XX 23 METALWORKING MACHINERY  
 7411 23 PRODUCER GAS AND WATER GAS GENERATORS AND PARTS  
 7412 23 FURNACE BURNERS FOR LIQUID FUEL AND PARTS  
 7413 23 IND.& LAB.FURNACES AND OVENS AND PARTS  
 7414 23 REFRIGERATORS & REFR.EQUIPMENT,EX.HOUSEHOLD,PARTS  
 7415 23 AIR CONDITIONING MACH.SELF-CONTAINED AND PARTS  
 7416 23 MACH.PLANT & SIM.LAB.EQUIP.INVOLV.A TEMP.CHANGE  
 741A 23 HEATING & COOLING EQUIPMENT AND PARTS  
 741X 23 HEATING & COOLING EQUIPMENT AND PARTS  
 7421 23 RECIPROCATING PUMPS,OTHER THAN 742.81  
 7422 23 CENTRIFUGAL PUMPS,OTHER THAN 742.81  
 7423 23 ROTARY PUMPS,OTHER THAN 742.81  
 7428 23 OTHER PUMPS FOR LIQUIDS & LIQUID ELEVATORS  
 7429 23 PARTS OF THE PUMPS & LIQ.ELEVATORS OF 742-  
 742A 23 PUMPS FOR LIQUIDS,LIQ.ELEVATORS AND PARTS  
 742X 23 PUMPS FOR LIQUIDS.LIQ.ELEVATORS AND PARTS  
 7431 23 AIR PUMPS,VACUUM PUMPS & COMPRESSORS  
 7432 23 PARTS OF THE PUMPS & COMPRESSORS OF 743.1-  
 7433 23 FREE-PISTON GENERATORS FOR GAS TURBINES,PARTS  
 7434 23 FANS,BLOWERS AND THE LIKE,AND PARTS  
 7435 23 CENTRIFUGES  
 7436 23 FILTERING & PURIFYING MACH.FOR LIQUIDS & GASES

7439 23 PARTS OF THE MACHINES OF 743.5-,743.6-  
 743A 23 PUMPS & COMPRESSORS,FANS & BLOWERS,CENTRIFUGES  
 743X 23 PUMPS & COMPRESSORS,FANS & BLOWERS,CENTRIFUGES  
 7441 21 WORK TRUCKS,MECHANICALLY PROPELLED,FOR SHORT DIST.  
 7442 21 LIFTING,HANDLING,LOADING MACH.CONVEYORS  
 7449 21 PARTS OF THE MACHINERY OF 744.2-  
 744A 21 MECHANICAL HANDLING EQUIP.AND PARTS  
 744X 21 MECHANICAL HANDLING EQUIP.AND PARTS  
 7451 23 TOOLS FOR WORKING IN THE HAND,PNEUMATIC,PARTS  
 7452 23 OTHER NON-ELECTRICAL MACH.AMP PARTS  
 745A 23 OTHER NON-ELECTRICAL MACH.TOOLS,APPARATUS & PARTS  
 745X 23 OTHER NON-ELECTRICAL MACH.TOOLS,APPARATUS & PARTS  
 7491 23 BALL,ROLLER OR NEEDLE ROLLER BEARINGS  
 7492 23 TAPS,COCKS,VALVES ETC.FOR PIPES,TANKS,VATS ETC  
 7493 23 TRANSMISSION SHAFTS,CRANKS,BEARING HOUSINGS ETC.  
 7499 23 OTHER NON-ELECTRIC PARTS & ACCESSORIES OF MACH  
 749A 23 NON-ELECTRIC PARTS AND ACCESSORIES OF MACHINES  
 749X 23 NON-ELECTRIC PARTS AND ACCESSORIES OF MACHINES  
 74XX 23 GENERAL INDUSTRIAL MACHINERY & EQUIPMENT,AND PARTS  
 7511 22 TYPEWRITERS;CHEQUE-WRITING MACHINES  
 7512 22 CALCULATING MACHINES,CASH REGISTERS.TICKET & SIM.  
 7518 33 OFFICE MACHINES, N.E.S.  
 751A 22 OFFICE MACHINES  
 751X 22 OFFICE MACHINES  
 7521 22 ANALOGUE & HYBRID DATA PROCESSING MACHINES  
 7522 22 COMPLETE DIGITAL DATA PROCESSING MACHINES  
 7523 22 COMPLETE DIGITAL CENTRAL PROCESSING UNITS  
 7524 22 DIGITAL CENTRAL STORAGE UNITS,SEPARATELY CONSIGNED  
 7525 22 PERIPHERAL UNITS,INCL.CONTROL & ADAPTING UNITS  
 7528 22 OFF-LINE DATA PROCESSING EQUIPMENT. N.E.S.  
 752A 22 AUTOMATIC DATA PROCESSING MACHINES & UNITS THEREOF  
 752X 22 AUTOMATIC DATA PROCESSING MACHINES & UNITS THEREOF  
 7591 22 PARTS OF AND ACCESSORIES SUITABLE FOR 751.1-,751.8  
 7599 22 PARTS OF AND ACCESSORIES SUITABLE FOR 751.2-,752-  
 759A 22 PARTS OF AND ACCESSORIES SUITABLE FOR 751 --OR 752-  
 759X 22 PARTS OF AND ACCESSORIES SUITABLE FOR 751--OR 752-  
 75XX 22 OFFICE MACHINES & AUTOMATIC DATA PROCESSING EQUIP.  
 7611 25 TELEVISION RECEIVERS,COLOUR  
 7612 25 TELEVISION RECEIVERS,MONOCHROME  
 761A 25 TELEVISION RECEIVERS  
 761X 25 TELEVISION RECEIVERS  
 7621 25 RADIO-BROADCAST RECEIVERS FOR MOTOR VEHICLES  
 7622 25 RADIO-BROADCAST RECEIVERS PORTABLE,INCL.SOUND REC.  
 7628 25 OTHER RADIO-BROADCAST RECEIVERS  
 762A 25 RADIO-BROADCAST RECEIVERS  
 762X 25 RADIO-BROADCAST RECEIVERS  
 7631 25 GRAMOPHONES & RECORD PLAYERS,ELECTRIC  
 7638 25 OTHER SOUND RECORDERS AND REPRODUCERS  
 763A 25 GRAMOPHONES,Dictating,SOUND RECORDERS ETC  
 763X 25 GRAMOPHONES,Dictating,SOUND RECORDERS ETC  
 7641 25 ELECT.LINE TELEPHONIC & TELEGRAPHIC APPARATUS  
 7642 25 MICROPHONES,LOUDSPEAKERS,AMPLIFIERS  
 7643 25 RADIOTELEGRAPHIC & RADIOTELEPHONIC TRANSMITTERS  
 7648 25 TELECOMMUNICATIONS EQUIPMENT  
 7649 25 PARTS OF APPARATUS OF DIVISION 76-  
 764A 25 TELECOMMUNICATIONS EQUIPMENT AND PARTS  
 764X 25 TELECOMMUNICATIONS EQUIPMENT AND PARTS  
 76XX 25 TELECOMMUNICATIONS & SOUND RECORDING APPARATUS  
 7711 27 TRANSFORMERS,ELECTRICAL  
 7712 27 OTHER ELECTRIC POWER MACHINERY,PARTS OF 771-  
 771A 27 ELECTRIC POWER MACHINERY AND PARTS THEREOF  
 771X 27 ELECTRIC POWER MACHINERY AND PARTS THEREOF  
 7721 27 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC.  
 7722 27 PRINTED CIRCUITS AND PARTS THEREOF  
 7723 27 RESISTORS,FIXED OR VARIABLE AND PARTS  
 772A 27 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PLUGS ETC.  
 772X 27 ELECT.APP.SUCH AS SWITCHES,RELAYS,FUSES,PWGS ETC.  
 7731 18 INSULATED,ELECT.WIRE,CABLE,BARS,STRIP AND THE LIKE  
 7732 32 ELECTRIC INSULATING EQUIPMENT  
 773A 18 EQUIPMENT FOR DISTRIBUTING ELECTRICITY  
 773X 18 EQUIPMENT FOR DISTRIBUTING ELECTRICITY  
 7741 27 ELECTRO-MEDICAL APPARATUS  
 7742 27 APP.BASED ON THE USE OF X-RAYS OR OF RADIATIONS  
 774A 27 ELECTRIC APPARATUS FOR MEDICAL PURPOSES,(RADIOLOG)  
 774X 27 ELECTRIC APPARATUS FOR MEDICAL PURPOSES,(RADIOLOG)  
 7751 24 HOUSEHOLD TYPE LAUNDRY EQUIPMENT  
 7752 24 REFRIG HH,FD FRZ,E/O  
 7753 23 DISH WASHING MACHINES OF HOUSEHOLD TYPE  
 7754 24 SHAVERS & HAIR CLIPPERS WITH MOTOR AND PARTS  
 7757 24 ELEC.-MECH.,DOMESTIC APPLIANCES AND PARTS

7758	24	ELECTRO-THERMIC APPLIANCES, N.E.S.
775A	24	HOUSEHOLD TYPE, ELECT. & NON-ELECTRICAL EQUIPMENT
775X	24	HOUSEHOLD TYPE, ELECT. & NON-ELECTRICAL EQUIPMENT
7761	26	TELEVISION PICTURE TUBES, CATHODE RAY
7762	26	OTHER ELECTR. VALVES AND TUBES
7763	26	DIODES, TRANSISTORS AND SIM. SEMI-CONDUCTOR DEVICES
7764	26	ELECTRONIC MICROCIRCUITS
7768	26	PIEZO-ELECTRIC CRYSTALS, MOUNTED, PARTS OF 776-
776A	26	THERMIONIC, COLD & PHOTO-CATHODE VALVES, TUBES, PARTS
776X	26	THERMIONIC, COLD & PHOTO-CATHODE VALVES, TUBES, PARTS
7781	27	BATTERIES AND ACCUMULATORS AND PARTS
7782	27	ELECT. FILAMENT LAMPS AND DISCHARGE LAMPS
7783	27	ELECTR. EQUIP. FOR INTERNAL COMBUSTION ENGINES, PARTS
7784	23	TOOLS FOR WORKING IN THE HAND WITH ELECT. MOTOR
7788	25	OTHER ELECT. MACHINERY AND EQUIPMENT
778A	27	ELECTRICAL MACHINERY AND APPARATUS, N.E.S.
778X	27	ELECTRICAL MACHINERY AND APPARATUS, N.E.S.
77XX	26	ELECTRICAL MACHINERY, APPARATUS & APPLIANCES N.E.S.
7810	28	PASSENGER MOTOR CARS, FOR TRANSPORT OF PASS. & GOOD
7821	28	MOTOR VEHICLES FOR TRANSPORT OF GOODS/MATERIALS
7822	29	SPECIAL PURPOSE MOTOR LORRIES AND VANS
782A	28	MOTOR VEHICLES FOR TRANSPORT OF GOODS/MATERIALS
782X	28	MOTOR VEHICLES FOR TRANSPORT OF GOODS/MATERIALS
7831	28	PUBLIC-SERVICE TYPE PASSENGER MOTOR VEHICLES ETC.
7832	28	ROAD TRACTORS AND SEMI-TRAILERS
783A	28	ROAD MOTOR VEHICLES, N.E.S.
783X	28	ROAD MOTOR VEHICLES, N.E.S.
7841	28	CHASSIS FITTED WITH ENGINES FOR MOTOR VEHICLES
7842	28	BODIES FOR THE MOTOR VEHICLES OF 722/781/782/783
7849	28	OTHER PARTS & ACCESSORIES OF MOTOR VEHICLES
784A	28	PARTS & ACCESSORIES OF 722-, 781-, 782-, 783-
784X	28	PARTS & ACCESSORIES OF 722-, 781--, 782-, 783-
7851	29	MOTORCYCLES, AUTO-CYCLES AND CYCLES WITH AN AUX. MOT
7852	29	CYLES, NOT MOTORIZED
7853	29	INVALID CARRIAGES, MOTORIZED OR NOT, PARTS
785A	29	MOTORCYCLES, MOTOR SCOOTERS, INVALID CARRIAGES
785X	29	MOTORCYCLES, MOTOR SCOOTERS, INVALID CARRIAGES
7861	29	TRAILERS & SPECIALLY DESIGNED CONTAINERS
7868	29	OTHER VEHICLES, NOT MECHANICALLY PROPELLED, PARTS
786A	29	TRAILERS & OTHER VEHICLES, NOT MOTORIZED
786X	29	TRAILERS & OTHER VEHICLES, NOT MOTORIZED
78XX	28	ROAD VEHICLES (INCL. AIR CUSHION VEHICLES
7911	29	RAIL LOCOMOTIVES, ELECTRIC
7912	29	OTHER RAIL LOCOMOTIVES; TENDERS
7913	29	RAILWAY & TRAMWAY COACHES, VANS, TRUCKS ETC.
7914	29	RAILWAY & TRAMWAY PASSENGER COACHES & LUGGAGE VAN
7915	29	RAIL&TRAMWAY FREIGHT AND MAINTENANCE CARS
7919	23	RAIL&TRAMWAY TRACK FIXTURES&FITTINGS, SIGNALL. EQUI.
791A	29	RAILWAY VEHICLES & ASSOCIATED EQUIPMENT
791X	29	RAILWAY VEHICLES & ASSOCIATED EQUIPMENT
7921	29	HELICOPTERS
7922	29	AIRCRAFT NOT EXCEEDING AN UNLADEN WEIGHT 2000 KG
7923	29	AIRCRAFT NOT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG
7924	29	AIRCRAFT EXCEEDING AN UNLADEN WEIGHT OF 15000 KG
7925	.	AIRCRAFT EXC GLIDERS, AIRSHIPS ETC
7928	29	AIRCRAFT, N.E.S. BALLOONS, GLIDERS ETC AND EQUIPMENT
7929	29	PARTS OF HEADING 792--, EXCL. TYRES, ENGINES
792A	29	AIRCRAFT& ASSOCIATED EQUIPMENT AND PARTS
792X	29	AIRCRAFT & ASSOCIATED EQUIPMENT AND PARTS
7931	29	WARSHIPS OF ALL KINDS
7932	29	SHIPS, BOATS AND OTHER VESSELS
7933	.	SHIPS, BOATS AND OTHER VESSELS FOR BREAKING UP
7938	19	TUGS, SPECIAL PURPOSE VESSELS, FLOATING STRUCTURES
793A	29	SHIPS, BOATS AND FLOATING STRUCTURES
793X	29	SHIPS, BOATS AND FLOATING STRUCTURES
79XX	29	OTHER TRANSPORT EQUIPMENT
7XXX	28	MACHINERY AND TRANSPORT EQUIPMENT
8121	19	BOILERS & RADIATORS FOR CENTRAL HEATING
8122	32	SINKS, WASH BASINS, BIDETS, WATER CLOSET PANS, ETC
8124	27	LIGHTING FIXTURES AND FITTINGS AND PARTS
812A	27	SANITARY, PLUMBING, HEATING, LIGHTING FIXTURES
812X	27	SANITARY, PLUMBING, HEATING, LIGHTING FIXTURES
81XX	27	SANITARY, PLUMBING, HEATING AND LIGHTING FIXTURES
8211	30	CHAIRS AND OTHER SEATS AND PARTS
8212	30	FURNITURE FOR MEDICAL, SURGICAL. DENTAL ETC. PRACTICE
8219	30	OTHER FURNITURE AND PARTS
821A	30	FURNITURE AND PARTS THEREOF
821X	30	FURNITURE AND PARTS THEREOF
82XX	30	FURNITURE AND PARTS THEREOF
8310	6	TRAVEL GOODS, HANDBAGS, BRIEF-CASES, PURSES, SHEATHS

83XX	6	TRAVEL GOODS, HANDBAGS AND SIMILIAR CONTAINERS
8421	5	OVERCOATS AND OTHER COATS, MEN, S
8422	5	SUITS, MENS, OF TEXTILE FABRICS
8423	5	TROUSERS, BREECHES ETC. OF TEXTILE FABRICS
8424	5	JACKETS, BLAZERS OF TEXTILE FABRICS
8429	5	OTHER OUTER GARMENTS OF TEXTILE FABRICS
842A	5	OUTER GARMENTS, MENS, OF TEXTILE FABRICS
842X	5	OUTER GARMENTS, MENS, OF TEXTILE FABRICS
8431	5	COATS AND JACKETS OF TEXTILE FABRICS
8432	5	SUITS & COSTUMES, WOMENS, OF TEXTILE FABRICS
8433	5	DRESSES, WOMENS, OF TEXTILE FABRICS
8434	5	SKIRTS, WOMENS, OF TEXTILE FABRICS
8435	5	BLOUSES OF TEXTILE FABRICS
8439	5	OTHER OUTER GARMENTS OF TEXTILE FABRICS
843A	5	OUTER GARMENTS, WOMENS, OF TEXTILE FABRICS
843X	5	OUTER GARMENTS, WOMENS, OF TEXTILE FABRICS
8441	5	SHIRTS, MENS, OF TEXTILE FABRICS
8442	5	UNDER GARMENTS, EXCL. SHIRTS, OF TEXTILE FABRICS
8443	5	UNDER GARMENTS, WOMEN, S, OF TEXTILE FABRICS
844A	5	UNDER GARMENTS OF TEXTILE FABRICS
844X	5	UNDER GARMENTS OF TEXTILE FABRICS
8451	5	JERSEYS, PULL-OVERS, TWINSETS, CARDIGANS, KNITTED
8452	5	DRESSES, SKIRTS, SUITS ETC, KNITTED OR CROCHETED
8459	5	OTHER OUTER GARMENTS & CLOTHING, KNITTED
845A	5	OUTER GARMENTS AND OTHER ARTICLES, KNITTED
845X	5	OUTER GARMENTS AND OTHER ARTICLES, KNITTED
8461	5	UNDER GARMENTS, KNITTED OR CROCHETED OF WOOL
8462	5	UNDER GARMENTS, KNITTED OF COTTON
8463	5	UNDER GARMENTS, KNITTED, OF SYNTHETIC FIBRES
8464	5	UNDER GARMENTS, KNITTED OF OTHER FIBRES
8465	5	CORSETS, BRASSIERES, SUSPENDRES AND THE LIKE
846A	5	UNDER GARMENTS, KNITTED OR CROCHETED
846X	5	UNDER GARMENTS, KNITTED OR CROCHETED
8471	5	CLOTHING ACCESSORIES OF TEXTILE FABRICS
8472	5	CLOTHING ACCESSORIES, KNITTED OR CROCHETEM, N. E. S.
847A	5	CLOTHING ACCESSORIES OF TEXTILE FABRICS
847X	5	CLOTHING ACCESSORIES OF TEXTILE FABRICS
8481	5	ART. OF APPAREL & CLOTHING ACCESSORIES, OF LEATHER
8482	16	ART. OF APPAREL & CLOTHING ACCESSORIES, OF PLASTIC
8483	5	FUR CLOTHING, ARTICLES MADE OF FURSKINS
8484	5	HEADGEAR AND FITTINGS THEREOF, N. E. S.
848A	5	ART. OF APPAREL & CLOTHING ACCESSORIES, NO TEXTILE
848X	5	ART. OF APPAREL & CLOTHING ACCESSORIES, NO TEXTILE
84XX	5	ARTICLES OF APPAREL AND CLOTHING ACCESSORIES
8510	6	FOOTWEAR
8710	33	OPTICAL INSTRUMENTS AND APPARATUS
8720	33	MEDICAL INSTRUMENTS AND APPLIANCES
8731	33	GAS, LIQUID, ELECTRICITY METERS
8732	33	REVOLUTION COUNTERS, TAXIMETERS AND THE LIKE
873A	33	METERS AND COUNTERS, N. E. S.
873X	33	METERS AND COUNTERS, N. E. S.
8741	33	SURVEYING, HYDROGRAPHIC, COMPASSES ETC.
8742	33	DRAWING, MARKING-OUT, DISC CALCULATORS AND THE LIKE
8743	33	INSTR. NON ELECTRICAL, FOR MEASURING, CHECKING FLOW
8744	33	INSTR. & APP. FOR PHYSICAL OR CHEMICAL ANALYSIS
8745	33	MEASURING, CONTROLLING & SCIENTIFIC INSTRUMENTS
8748	33	ELECTRICAL MEASURING, CHECKING, ANALYSING INSTRUM.
8749	33	PARTS, N. E. S. ACCESSORIES FOR 873-, 8743-, 87454, 8748
874A	33	MEASURING, CHECKING, ANALYSING INSTRUMENTS
874X	33	MEASURING, CHECKING, ANALYSING INSTRUMENTS
87XX	33	PROFESSIONAL, SCIENTIFIC & CONTROLLING INSTRUMENTS
8811	33	PHOTOGRAPHIC CAMERAS, PARTS & ACCESSORIES
8812	33	CINEMATOGRAPHIC CAMERAS, PROJECTORS, SOUND-REC, PAR
8813	33	PHOTOGRAPHIC & CINEMATOGRAPHIC APPARATUS N. E. S
881A	33	PHOTOGRAPHIC APPARATUS AND EQUIPMENT, N. E. S.
881X	33	PHOTOGRAPHIC APPARATUS AND EQUIPMENT, N. E. S.
8821	33	CHEMICAL PRODUCTS & FLASHLIGHT MATERIALS
8822	33	PHOTOGRAPHIC FILM, PLATES, PAPER
882A	33	PHOTOGRAPHIC & CINEMATOGRAPHIC SUPPLIES
882X	33	PHOTOGRAPHIC & CINEMATOGRAPHIC SUPPLIES
8830	33	CINEMATOGRAPH FILM, EXPOSED-DEVELOPED, NEG. OR POS.
8841	33	LENSES, PRISMS, MIRRORS, OTHER OPTICAL ELEMENTS
8842	33	SPECTACLES AND SPECTACLE FRAMES
884A	33	OPTICAL GOODS, N. E. S.
884X	33	OPTICAL GOODS, N. E. S.
8851	33	WATCHES, WATCH MOVEMENTS AND CASES
8852	33	CLOCKS, CLOCK MOVEMENTS AND PARTS
885A	33	WATCHES AND CLOCKS
885X	33	WATCHES AND CLOCKS
88XX	33	PHOTOGRAPHIC APPARATUS, OPTICAL GOODS, WATCHES

8921	9	BOOKS, PAMPHLETS, MAPS AND GLOBES, PRINTED
8922	9	NEWSPAPERS JOURNALS, PERIODICALS
8924	9	PICTURE POSTCARDS, GREETING CARDS
8925	9	MAPS, GREETING CARDS MUSIC, PRINTED
8928	9	PRINTED MATTER, N.E.S.
892A	9	PRINTED MATTER
892X	9	PRINTED MATTER
8931	16	ART. FOR THE CONVEYANCE OR PACKING OF GOODS
8932	16	SANITARY OR TOILET ART. OF MATERIALS OF DIV. 58
8933	16	ORNAMENTAL ART. AND OBJECTS OF MAT. OF DIV. 58
8935	16	ART. OF ELECTRIC LIGHTING OF MATERIALS OF DIV. 58
8939	16	MISCELLANEOUS ART. OF MATERIALS OF DIV. 58
893A	16	ARTICLES OF MATERIALS DESCRIBED IN DIVISION 58
893X	16	ARTICLES OF MATERIALS DESCRIBED IN DIVISION 58
8941	34	BABY CARRIAGES, AND PARTS
8942	34	CHILDRENS TOYS, INDOOR GAMES, ETC.
8946	19	NON-MILITARY ARMS AND AMMUNITION THEREFOR
8947	34	OTHER SPORTING GOODS AND FAIRGROUND AMUSEMENTS
894A	34	BABY CARRIAGES, TOYS, GAMES AND SPORTING GOODS
894X	34	BABY CARRIAGES, TOYS, GAMES AND SPORTING GOODS
8951	30	OFFICE AND STATIONERY SUPPLIES, OF BASE METAL
8952	34	PENS, PENCILS AND FOUNTAIN PENS
8959	34	OTHER OFFICE AND STATIONERY SUPPLIES
895A	34	OFFICE AND STATIONERY SUPPLIES, N.E.S.
895X	34	OFFICE AND STATIONERY SUPPLIES, N.E.S.
8960	.	ART, COLLECTORS PIECES & ANTIQUES
8972	34	IMITATION JEWELLERY
8973	34	JEWELLERY OF GOLD, SILVER OR PLATINUM
8974	34	OTHER ARTICLES OF PRECIOUS METAL
897A	34	JEWELLERY, GOLDSMITHS AND OTHER ART. OF PRECIOUS M.
897X	34	JEWELLERY, GOLDSMITHS AND OTHER ART. OF PRECIOUS M.
8981	34	PIANOS AND OTHER STRING MUSICAL INSTRUMENTS
8982	34	OTHER MUSICAL INSTRUMENTS OF 898.1-
8983	25	GRAMOPHONE RECORDS AND SIM. SOUND RECORDINGS
8989	34	PARTS OF AND ACCESSORIES FOR MUSICAL INSTRUMENTS
898A	25	MUSICAL INSTRUMENTS, PARTS AND ACCESSORIES
898X	25	MUSICAL INSTRUMENTS, PARTS AND ACCESSORIES
8991	34	ART. & MANUF. OF CARVING OR MOULDING MATERIALS
8993	34	CANDLES, MATCHES, PYROPHORIC ALLOYS ETC.
8994	34	UMBRELLAS, PARASOLS, WALKING STICKS, PARTS
8996	33	ORTHOPAEDIC APPLIANCES, SURGICAL BELTS AND THE LIKE
8997	34	BASKETWORK, WICKERWORK ETC. OF PLAITING MATERIALS
8998	34	SMALL-WARES AND TOILET ART., FEATHER DUSTERS ETC.
8999	34	MANUFACTURED GOODS, N.E.S.
899A	34	OTHER MISCELLANEOUS MANUFACTURED ARTICLES
899X	34	OTHER MISCELLANEOUS MANUFACTURED ARTICLES
89XX	34	MISCELLANEOUS MANUFACTURED ARTICLES, N.E.S.
8XXX	5	MISCELLANEOUS MANUFACTURED ARTICLES
9110	.	POSTAL PACKAGES NOT CLASSIFIED ACCORDING TO KIND
9310	.	SPECIAL TRANSACTIONS & COMMOD., NOT CLASS. TO KIND
9410	.	ANIMALS, LIVE, N.E.S., INCL. ZOO-ANIMALS
9510	19	ARMOURED FIGHTING VEHICLES, ARMS OF WAR & AMMUNIT.
9610	19	COIN (OTHER THAN GOLD) NOT BEING LEGAL TENDER
9710	18	GOLD, NON-MONETARY
9915	.	AGRIC PROD.
9916	9	PULP, PAPER
9999	.	NON-IDENTIFIED PRODUCTS
9XXX	.	COMMODITIES & TRANS. NOT CLASSIFIED ELSEWHERE

**Appendix E: International Standard Industrial Classification (ISIC), Revision 2,  
Major Division 3 (Manufactured Goods)**

3---	Manufacturing
31--	Manufacturing of food, beverages and tobacco
311-	Food manufacturing
3111	Slaughtering, preparing and preserving meat
3112	Manufacture of dairy products
3113	Canning and preserving of fruits and vegetables
3114	Can., Preserv., and process of fish, crustacean
3115	Manufacture of vegs. and animal oils and fats
3116	Grain mill products
3117	Manufacture of bakery products
3118	Sugar factories and refineries
3119	Manufacture of cocoa, choc., and sugar confectionery
312-	Other food manufacturing
3121	Manufacture. of food products, N.E.C.
3122	Manufacture of prepared animal feeds
313-	Beverage industries
3131	Distilling, rectifying and blending spirits
3132	Wine industries
3133	Malt liquors and malt
3134	Soft drinks and carbonated waters industries
314-	Tobacco manufactures
3140	Tobacco manufactures
32--	Textile, wearing apparel and leather industries
321-	Manufacture of textiles
3211	Spinning, weaving and finishing textiles
3212	Manufacture made-up textile goods except wearing apparel
3213	Knitting mills
3215	Cordage rope and twine industries
3219	Manufacture of textiles, N.E.C.
322-	Manufacture of wearing apparel except footwear
3220	Manufacture of wearing apparel except footwear
323-	Manufacture prods. leather except footwear and apparel
3231	Tanneries and leather finishing
3232	Fur dressing and dyeing industries
3233	Manufacture prods. leather except footwear and apparel
324-	Manufacture footwear except rubber or plastic
3240	Manufacture footwear except rubber or plastic
33--	Manufacture of wood and wood products
331-	Manufacture wood, wood and cork prods., except furniture
3311	Sawmills, planting and other wood mills
3312	Manufacture wooden, cane containers, small cane ware
3319	Manufacture wood and cork products N.E.C.
332-	Manufacture furniture, fixtures except primarily metal
3320	Manufacture furniture, fixtures except primarily metal
34--	Manufacture paper, paper prods., printing, publishing
341-	Manufacture of paper and paper products
3411	Manufacture of pulp, paper and paperboard
3412	Manufacture containers and boxes of paper, paperboard
3419	Manufacture articles of pulp, paper, paperboard, N.E.C.
342-	Printing, publishing and allied industries
3420	Printing, publishing and allied industries
35--	Manufacture of chemicals and chemical products
351-	Manufacture of industrial chemicals
3511	Basic industrial chemicals except fertilizers
3512	Fertilizers and pesticides
3513	Syn. resins, plastic mat. man-made fibers exc. glass
352-	Manufacture of other chemical products
3521	Paints, varnishes and lacquers
3522	Drugs and medicines
3523	Soap, cleansing preparations, perfumes, cosmetics



3529 Chemical products, N.E.C.  
 353- Petroleum refineries  
 3530 Petroleum refineries  
 354- Misc. products of petroleum and coal  
 3540 Misc. products of petroleum and coal  
 355- Rubber products  
 3551 Tire and tube industries  
 3559 Manufacture of rubber products N.E.C.  
 356- Plastic products N.E.C.  
 3560 Plastic products N.E.C.  
 36-- Manufacture non-metallic mineral prods. except fuel  
 361- Pottery, china and earthenware  
 3610 Pottery, china and earthenware  
 362- Glass and glass products  
 3620 Glass and glass products  
 369- Other non-metallic mineral products  
 3691 Structural clay products  
 3692 Cement, lime and plaster  
 3699 Non-metallic mineral products, N.E.C.  
 37-- Basic metal industries  
 371- Iron and steel basic industries  
 3710 Iron and steel basic industries  
 372- Non-ferrous metal basic industries  
 3720 Non-ferrous metal basic industries  
 38-- Fabricated metal products, machinery and equipment  
 380- Metal scrap from Manufacture of fabricated metal prods.  
 3801 Metal scrap from Manufacture of fabricated metal prods.  
 381- Fabricated metal products, except machinery and equipment  
 3811 Cutlery, hand tools and general hardware  
 3812 Furniture and fixtures primarily of metal  
 3813 Structural metal products  
 3819 Fabricated metal products except machinery and equipment N.E.C.  
 382- Manufacture of machinery except electrical  
 3821 Engines and turbines  
 3822 Agricultural machinery and equipment  
 3823 Metal and woodworking machinery  
 3824 Spec. indus. machinery and equipment except 3823  
 3825 Office, computing and accounting machinery  
 3829 Machinery and equipment except electric, N.E.C.  
 383- Electrical machinery, apparatus, appliances and supplies  
 3831 Electrical industrial machinery and apparatus  
 3832 Radio, tele., communications equipment and apparatus  
 3833 Electrical appliances and housewares  
 3839 Electrical apparatus and supplies, N.E.C.  
 384- Transport equipment  
 3841 Shipbuilding and repairing  
 3842 Railroad equipment  
 3843 Motor vehicles  
 3844 Motorcycles and bicycles  
 3845 Aircraft  
 3849 Transport equipment N.E.C.  
 385- Prof., scientific, measuring and control equipment  
 3851 Prof., scientific, measuring and control equipment  
 3852 Photographic and optical goods  
 3853 Watches and clocks  
 39-- Other manufacturing industries  
 390- Other manufacturing industries  
 3901 Jewelry and related articles  
 3902 Musical instruments  
 3903 Sporting and athletic goods  
 3909 Manufacturing industries, N.E.C.