

European Mineral Statistics



2001–05



**British
Geological Survey**
NATIONAL ENVIRONMENT RESEARCH COUNCIL



European Mineral Statistics 2001-05

A product of the World Mineral Statistics database

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Bibliographical reference

BRITISH GEOLOGICAL SURVEY. 2007. *European mineral
statistics 2001-05.* (Keyworth, Nottingham: British Geological
Survey.)

Cover photograph: Mondo Minerals talc mine in Sotkamo,
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Finland, the Netherlands, Norway, Portugal and Turkey.

ISBN 978-0-85272-593-1 (Download)

ISBN 978-0-85272-594-8 (Paper back)

Commentary

1. Introduction

Within Europe's relatively restricted land area there exists a remarkable geological variety. It includes ancient crystalline 'shields' and massifs, complex younger fold-belts penetrated by igneous intrusions, deep sedimentary basins containing coal and other minerals, and landscapes profoundly modified by a recent ice age. As a consequence Europe has a rich endowment of all the major groups of minerals. In the nineteenth century the continent's burgeoning industrial economies were built on its resources of metals and coal. The productive capacity of those resources was, with some exceptions, largely outgrown in the twentieth century but Europe continues to obtain a high proportion of its needs for industrial and construction minerals from within its own borders. In addition, a recent bonanza has been the discovery and exploitation of the offshore resources of petroleum and natural gas beneath the North Sea and other areas of the continental shelf.

During the industrial revolution of the eighteenth and nineteenth centuries the interest of sovereign states in their own economic and demographic performance led to the development of statism, that is, the direction and control of their internal affairs to a much greater degree than before. From statism came the concept of statistics – the numbers collected and compiled as the basis for such action by the state. Among many other things, almost all European countries compile annual statistics of national mineral production and trade and these form the basis of this European compilation¹.

For many countries, from antiquity, the ownership of precious metals has been vested in the state or the sovereign and for the majority of European countries state ownership extends to all metals and high-value industrial minerals. Chiefly as a result, in Europe and the world as a whole, there is a direct correspondence between the unit value of a mineral commodity and the amount and accuracy of official statistical information available on it. At the extreme high end of the value range this relationship tends to break down so that data on gemstones and precious metals is less straightforward than that on base metals. However, as a rule the state does not claim ownership of low-value construction minerals, such as crushed rock aggregate, sand & gravel and others. Partly as a consequence, the statistics for such minerals tend to be less comprehensive, less reliable and more difficult to compile and compare than those for other minerals. It is ironic that with modern environmental concerns and pressures on land-use in Europe it is precisely these less well-documented minerals – their occurrence, production, trade and consumption – that are of greatest concern to local and national governments.

So far as possible, the statistics of production compiled by the BGS are the official data for the countries concerned, whose government departments and agencies compile and publish them on the basis of returns from annual, or more frequent, inquiries in the form of mandatory questionnaires to producers. Trade statistics published by BGS are invariably compiled, directly or indirectly, from official publications.

Where official production data are not available, or where there is reasonable cause to doubt the accuracy or completeness of such data, information is sought from other sources such as geological survey organizations, chambers of mines, universities, trade associations and the primary producers themselves. Time and resources preclude double-checking in any but the most necessary of cases.

An increasing problem, particularly in Europe, is the invocation of rules that debar a government body from divulging national production data if there is only a small number of producers, the object being the maintenance of commercial confidentiality. However we often find in such cases that the primary producers themselves are willing to release the information for publication. A further problem lies in the

¹ For this compilation 'Europe' is defined as the 25 EU members (as of 1 December 2005), the EU associates Norway and Switzerland and the EU applicant countries Bulgaria, Croatia, Romania and Turkey; this group of 31 countries is for convenience referred to as 'EU31'.

desire of governments, everywhere, to recover costs by asking for payment for official information – which is often marketed through an agent. This situation is coupled with an increasing apparent disregard for the value (as distinct from the price) of impartial mineral statistics and a conviction that their compilation should be funded entirely by the users of the data, or by the industrial sector concerned. It is true that no other industrial sector has a statistical operation wholly dedicated to its physical (as opposed to financial) activities. The reason is that no other industrial sector is at one and the same time so crucial to the maintenance of civilisation and so little understood by the population at large.

2. Construction minerals

The most important construction minerals² and their chief uses are summarised below (Table 1):

Table 1 Construction minerals and their principal uses

| | |
|--|--|
| Aggregates, natural (sand and gravel):– crushed rock (limestone, sandstone, igneous rock etc.):– | <i>concrete, building sand and fill roadstone, fill, concrete</i> |
| Common clay and shale:– | <i>bricks, pipes, tiles and cement manufacture</i> |
| Gypsum:– | <i>plaster, plasterboard and cement</i> |
| Limestone and dolomite:– | <i>crushed-rock aggregate, cement, other industrial and agricultural uses</i> |
| Building stone (dimension stone) :– | <i>this comprises almost any competent rock-type that may be used in the form of shaped and/or sized blocks for either structural or decorative purposes. It normally includes roofing stone and slate</i> |

2.1 Statistical problems of aggregate minerals

Aggregates suffer from the incompleteness of available production data and incompatibility of different countries' production statistics for this group. The European data for aggregates presented here represent an early attempt at compiling reliable data and we would welcome any comments, amendments and corrections that users may wish to make.

Other problems are related to the terminology used by different countries. These can include such categories as:

- ‘gravel and crushed rock’ with no distinction between types of aggregate minerals
- ‘building stone’ that incorporates both crushed-rock aggregate and dimension stone
- ‘limestone’ and other purely petrological descriptions with no indication of the construction/industrial use split
- ‘sand’ with no distinction between material for construction sand and special sand for industrial uses e.g. for glass

With the establishment of the European single market on 1st January 1993 a new statistical system was introduced across the Community to measure production for sale (Prodcom). It covers many activities, including mining and quarrying. Information is presented on the volume and value of sales and the headings are compatible with trade headings, the intention being to provide an assessment of the apparent consumption of a particular product. However, the data for minerals are of highly variable quality.

² Statistics for gypsum are complicated by the availability of large quantities of synthetic gypsum, which is not covered in this publication

2.2 European situation

The statistical tables in this volume show that it is possible to account in detail for at least 2742 million tonnes of primary aggregate production in the EU31 countries. The European Aggregates Association (UEPG) (www.uepg.eu) estimates that the average annual production of primary aggregates in only eighteen European countries is 2832 million tonnes.

These totals easily exceed the total tonnage of all other minerals produced in the EU. This fact highlights the concerns expressed in many countries about the sustainability of the resource, both in terms of tonnage remaining and also the land-use and environmental issues that are raised by the implicit need for the expansion of quarries to maintain the level of output.

All European countries consume construction minerals, generally in proportion to the size of their individual economies. The majority of the EU member countries are self-sufficient in supply of aggregate minerals but while some, e.g. UK, produce approximately equal quantities of sand & gravel and crushed-rock aggregates others are, for obvious geological and topographic reasons, deficient in one or the other. For example, Netherlands lacks resources suitable for the production of hard-rock aggregates while Austria, landlocked and without broad alluvial lowlands, is a net importer of sand and gravel. Simple statistical analysis, especially if only ‘gross’ national trade positions are examined, can be misleading: aggregates are low-cost minerals ‘ex-pit’ and are, as a result, sensitive to transport costs. They may be imported via a short cross-border route at lower cost than if they were carried a much greater distance within national borders.

For countries bordering the North Sea production of marine-dredged sand and gravel is a significant part of supply. In the case of the UK this source amounts to approximately 20 million tonnes/year or 21 per cent of total UK sand and gravel production in 2005. Almost one third of this tonnage is landed at foreign ports as exports. Crushed rock produced from onshore sites is also conveyed by sea from Norway and Scotland.

Recycled and secondary aggregates have become an increasingly important part of supply, in response to environmental constraints on the production of primary (quarried) material. In Great Britain these materials account for 21 per cent of total supply. UEPG shows production of recycled aggregates as 179 million tonnes in 2005 with the UK and Germany being the largest producers with 56 million tonnes and 46 million tonnes, respectively.

The EU Mining Waste Directive will introduce stricter controls across Europe by setting out the minimum requirements for safe containment of waste from mines. This has been finalised and Member States are required to comply with the Directive by May 2008, although discussions on definitions and transposition into national legislation continue. The Directive applies to all onshore minerals extraction, including metals, industrial, construction and energy.

3. Industrial (non-construction) minerals

These comprise a wide range of non-metallic, non-energy minerals used as feedstocks for manufacturing or industrial processing aids, exemplified by barytes, fluorspar, magnesite, kaolin (china clay), mica, and salt. The category includes metallic minerals used for non-metallic products, e.g. bauxite, chromite, ilmenite and also ‘construction minerals’ used for non-construction purposes, e.g. limestone. Unlike metals, where whatever the raw material the ultimate refined marketable material is produced to a few accepted standards for use in a variety of applications, industrial minerals depend to a great extent on their intrinsic ‘as mined’ physical and chemical qualities. Thus, for industrial minerals the two most significant variables are the grade of the deposit, that is, how much useful mineral it contains, and the quality of the mineral, that is, its suitability for specific end-uses. The quality may be a combination of physical properties such as particle size and shape, brightness, viscosity in suspension, specific gravity,

hardness, strength and insulating properties. Several industrial minerals are valued purely for their chemical composition in that they form the basis for production of, for example, the essential plant nutrients potassium and phosphorus or the halogens chlorine and fluorine and many other elements used as chemical feedstocks.

It has been suggested that the point at which the value of a country's industrial mineral production (including construction minerals) overtakes that of its metal (mine) production marks its transition to a mature industrial economy. Certainly this point was attained long ago for the major economies of Europe: the value of metal production in France, Germany, Italy and the UK is negligible compared to the value of industrial minerals output.

A problem for the compiler of statistics on industrial minerals is that many of them cannot be precisely defined, but grade into one another. Thus, kaolin grades into kaolinitic clay, bauxite into high-alumina clay, dolomite into limestone, and this has implications for the comparability of statistics between deposits and countries. Many industrial minerals are produced and marketed in either a 'wet', 'dried' or 'calcined' forms; this can markedly affect the weight of the material. In this compilation every effort has been made to ensure comparability between countries in this respect. Some mineral-derived elements may be obtained by a number of mineral-based but different routes: sulphur is obtained, in Europe, as a by-product from oil refining, from sour gas, from base metal smelting and as a primary product from pyrites (iron sulphide). Some semi-processed materials³ can be obtained from completely different sources, for example magnesia (magnesium oxide), which is produced from both magnesite and a combination of sea-water and dolomite. Salt is a further example, being extracted as a solid (rock salt), as brine and by evaporation of sea water.

European production of industrial minerals⁴ supplies a fairly high proportion of the continent's requirements, in contrast to the position with metals. However, in the cases of several minerals, production is dominated by one country and the majority are still dependent on imports for all but a few of these minerals. The proportions of selected minerals produced by Europe is given in Table 2.

Table 2 EU31 production of selected industrial minerals as world percentages

| Industrial mineral | % of world | EU31 countries with >2% of world output in 2005 |
|----------------------------|-------------------|--|
| Feldspar | 48.9 | Italy (18%), Turkey, France, Spain, Czech Republic, Poland |
| Kaolin | 25.3 | UK (8.2%), Germany, Czech Republic, Turkey |
| Gypsum | 25.1 | Spain (11.5%), France |
| Bentonite & fuller's earth | 21.0 | Greece (5.9%), Spain, Turkey, Italy |
| Magnesite | 20.1 | Turkey (9.0%), Slovakia, Austria |
| Talc | 16.1 | Finland (5.9%), France |
| Potash | 14.3 | Germany (11.4%) |
| Fluorspar | 6.6 | Spain (2.9%) |
| Barytes | 5.8 | — |

4. Metals

³In the case of several oxides, hydroxides and salts the yardstick for inclusion in this compilation is that the material should be the basis for a further transformation process although the compilers accept that this criterion has been applied in a flexible way.

⁴The tabulated statistics show that availability of reported data is much lower for industrial minerals than for metals, with many estimated totals being shown.

Until the middle of the nineteenth century the demands of industry in Europe were met by indigenous metal mines but thereafter it became clear that the resources of other continents would become an important source of supply, having, as they did, very large and rich ore bodies that could be worked at relatively low cost. Initially, ores and concentrates were transported to Europe for processing. Many high-volume ores, notably iron ore, still are imported but smelting and refining of base metal concentrates has been increasingly undertaken at or near the sites of the overseas mines. Europe as a whole is now heavily dependent on extra-European sources of virtually all metals although recycling makes an important contribution and, as the statistical tables show, several European countries still have significant mine production of one or more metals.

Certain European countries are major mine producers of particular metals, e.g. Poland for copper (3.4 per cent of the world total in 2005), Finland and Turkey for chromium (3.6 per cent and 3.0 per cent respectively) and Ireland for zinc (4.4 per cent), but the majority of European countries depend chiefly on imports from other continents. Since 2004, the percentage of mine production for metals produced in the EU31 has generally decreased slightly, but increases have been seen in chromium (5.6 per cent in 2004) due to increased production in Turkey, and nickel (1.7 per cent in 2004) as mining commenced in Spain from Rio Narcea's Aguablanca nickel mine. The overall European position with regard to mine production of the major non-ferrous metals in 2005 is shown in Table 3.

Table 3 EU31 mine production of selected metals as world percentages

| Metal | % world | EU31 countries with >1% of world output in 2005 |
|---------------------|----------------|---|
| Silver | 9.5 | Poland (6.2%), Sweden, Turkey |
| Zinc | 9.4 | Ireland (4.4%), Sweden, Poland |
| Titanium | 7.4 | Norway (7.4%) |
| Lead | 6.8 | Ireland (2.2%), Sweden, Poland |
| Chromium | 6.7 | Finland (3.6%), Turkey |
| Copper | 5.6 | Poland (3.4%) |
| Tungsten | 3.8 | Austria (2.3%), Portugal |
| Nickel | 2.1 | Greece (1.4%) |
| Iron | 2.0 | Sweden (1.5%) |
| Aluminium (bauxite) | 2.0 | Greece (1.4%) |
| Mercury | 1.8 | Finland (1.8%) |
| Gold | 0.6 | – |
| Manganese | 0.6 | – |

EU31 consumption for each of the metals listed in Table 3 is between 20 and 35 per cent of total world consumption.

European smelting and refining of imported ores and concentrates provides the bulk of supply in the cases of iron, aluminium (bauxite), zinc, lead and the minor metals associated with these elements, and about half of total copper supply. Refining in Europe of semi-processed materials from other continents accounts for a large part of vanadium, nickel and cobalt supply but tin metal is now entirely imported. Ferro-alloys of a number of metals are produced in Europe but imports of the major types are an indispensable part of total supply.

The balance of metals supply is made up of imports of refined metal. It is emphasized that the situation of individual countries may vary widely from one to another, as the statistics show.

In 2005, metals prices were generally high due, in part, to high demand from China, although cobalt, magnesium, platinum group metals and tin showed lower average prices than in 2004. China consumed around 22 per cent of the world total of refined aluminium and copper, 26 per cent of primary lead, 15 per cent of nickel, 33 per cent of refined tin, and 29 per cent of slab zinc (World Bureau of Metal Statistics). China also consumed 31 per cent of steel, although the per capita consumption was a fairly modest 268.6 kilograms (compare to the EU at 383.4 kilograms per capita) (International Iron and Steel Institute). Stocks of many minerals and metals, including copper, lead and zinc, were low.

5. Energy minerals

These comprise petroleum, natural gas, coal and uranium. Statistics for production and trade of petroleum and coal are fairly complete and present few problems to compilers. However the data for petroleum conceal the distribution of differing grades of crude oil. For example, although the UK is a net exporter of petroleum there is a significant import of heavy crude which is a necessary requirement that cannot be supplied by the North Sea and other offshore fields. In 2004 Norway produced 4.0 per cent of total world output of oil and the United Kingdom produced 2.3 per cent, these two countries being the seventh and fourteenth largest world producers respectively. No other European country produces more than 0.5 per cent of the world total. Europe (EU31) as a whole produced 7.5 per cent of the world total.

In January 2007, the Commission of the European Communities proposed a comprehensive package of measures to establish a new energy policy for Europe. The policy aims to address issues relating to sustainability, security of supply and competitiveness by proposing ambitious targets on greenhouse gas emissions and renewable energy, creating a true internal market, and strengthening regulation. The internal energy market would aim to be competitive, sustainable and have security of supply to avoid black-outs and price surges. Diversity of supply of gas will be promoted and effective mechanisms implemented to ensure solidarity between Member States in energy crises. In October 2006, the Commission adopted an Energy Efficiency Plan which, if successful, would mean the EU would use around 13 per cent less energy by 2020.

Before 1975, European production of both petroleum and natural gas was negligible but Europe produced 11.6 per cent of the world total for natural gas in 2005 and 6.8 per cent of petroleum. These percentages both show small reductions on the 2004 figures of 12.7 per cent and 7.5 per cent, respectively.

Coal output in Europe has been declining steadily for many years as deep mines become increasingly uncompetitive with sources in other continents. In 1981 production from the present EU31 countries was 1351 million tonnes. In 2005 production from the same territories was 682 million tonnes of which half was provided by Germany (3.4 per cent of the world total) and Poland (2.7 per cent).

'Black coal' or 'hard coal' is normally taken to mean bituminous coal and anthracite. 'Brown coal' comprises sub-bituminous coal and lignite. Black coals have a higher calorific value and lower volatile content than brown coals, the use of which is almost confined to burning in electricity generating stations. Within black coals a fundamental division is made into 'steam coal', for power generation, and 'coking coal', used for metallurgical purposes, predominantly iron smelting in blast furnaces. An important distinction in mining methods is that between deep mines (with shafts or deep declines) and opencast or open pit mines. The latter have, as a rule, lower costs and are therefore more profitable. Both methods give rise to planning and social concerns.

Mine production of uranium in the EU31 countries in 2005 amounted to 696 tonnes U₃O₈ equivalent, or 1.4 per cent of the world total, chiefly attributable to the Czech Republic. The EU31 countries occupy the top four positions for nuclear share in electricity generation in 2005 (International Atomic Energy Agency). These countries are France, Lithuania, Slovakia and Belgium, with nuclear share ranging from 78.5 per cent to 55.6 per cent.

The overall European position with regard to production of energy minerals in 2005 is shown in Table 4.

Table 4 EU31 production of energy minerals as world percentages

| Mineral | % world | EU31 countries with > 1% of world output 2005 |
|----------------|----------------|---|
| Natural gas | 11.6 | UK (3.3%), Norway, Netherlands |
| Coal | 11.6 | Germany (3.4%), Poland, Greece, Turkey, Czech Republic |
| Petroleum | 6.8 | Norway (3.6%), UK |
| Uranium | 1.4 | Czech Republic (1.0%) |

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Explanatory notes

The statistics in this publication are from the World Mineral Statistics database.

Coverage

European Mineral Statistics covers the majority of economically important, and internationally traded, mineral commodities. For each commodity constant efforts are made to ensure that as many producing and trading countries as possible are reported and that trade data cover all major traded forms. For some commodities, where statistics on production and trade are not publicly available, estimates are made. Users of this compilation are advised that more statistical information than can be included in a publication of this nature is held in the BGS files and is available for consultation.

Production

Metals Mine production of many metals is expressed in terms of metal content. This is clearly indicated adjacent to the commodity description. Unless otherwise specified, metal production statistics relate to metal recovered from both domestic and imported materials, whether primary or secondary, but exclude remelted material.

Trade

Although every effort has been made to provide comprehensive coverage of trade statistics the resulting trade compilations depend on the nature of the data available. The fact that a country is not shown as trading in a particular commodity does not necessarily imply that there is no trade in that item. The commodity may not be separately identified in the available trade statistics or may not be traded in significant quantities.

Where an estimate for a trade statistic has been reconstructed from the imports/exports of other countries, the resulting figure may be conservative, as complete coverage of world trade is seldom available.

Export statistics may include re-exports. The distinction is only made when re-exports are recorded separately in the relevant national trade account and are deemed to be significant.

Tables showing trade in the following metals covered by Harmonised System Chapter 81 include under the term 'metal', unwrought and wrought forms, powder, alloys, waste and scrap, unless these are separately shown: antimony, bismuth, cadmium, chromium, cobalt, manganese, molybdenum, tantalum-niobium, titanium, tungsten, vanadium and zirconium. Trade tables of other metals include only unwrought forms under the term 'metal'.

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Acknowledgements

Compilation of this volume of mineral statistics has been possible only by obtaining information from a very large number of organisations throughout the world, chiefly home and overseas government departments and specialist national or international authorities concerned with particular sectors of the minerals or metals industries. To all these bodies the British Geological Survey expresses its grateful acknowledgement for the information made available, whether in published form or provided by direct correspondence.

Particular acknowledgement is made to the Mines Departments and other government agencies of many countries whose regular statements, yearbooks and other reports are worthy of direct consultations by readers in search of detail.

Specialist commodity organisations which have kindly allowed information to be reproduced include the International Copper Study Group, the International Lead and Zinc Study Group, the International Nickel Study Group and the International Fertilizer Industry Association Ltd. In a few instances, information on specific commodities has been obtained directly from company sources. The co-operation of other members of the International Consultative Group on Non-Ferrous Metal Statistics is also gratefully acknowledged.

Supplementary information is also obtained from publications dealing with a wider range of commodities such as Société de l'Industrie Minérale, *Annuaire Statistique Mondial des Minéraux et Métaux*; Mining Journal, *Mining Annual Review*; World Bureau of Metal Statistics, *World Metal Statistics* and

Metallstatistik; publications of the Interstate Statistical Committee of the CIS, the United States Geological Survey, and the United Nations Statistics Division.

In addition, information has been obtained from the websites of the following organisations, companies, statistical offices and government departments: United Nations; Kaolin & Plastic Clays Europe; International Iron and Steel Institute; Eurofer; World Nuclear Association; Eurostat; European Aggregates Association; Falconbridge Ltd; Inmet Mining; Aluminium de Grece; New Boliden; Eurozinc Mining Corporation; Vereinigung der Oesterreichischen Zementindustrie, Austria; Federation de l'Industrie Cimentiere Belge, Belgium; Statistics Belgium; Czech Republic Statistical Office; Statistics Denmark; Geological Survey of Finland; Federation des Minerais, Mineraux Industrielles et Metaux non Ferreux, France; Comite Professionel de Petrole, France; Ministere de l'Economie, des Finances et de l'Industrie, France; Infociments, France; Statistisches Bundesamt Deutschland, Germany; National Statistical Service of Greece; Federacciai, Italy; Unione Petrolifera, Italy; Istituto Nazionale di Statistica, Italy; Statec, Luxembourg; Centraal Bureau voor de Statistiek, Netherlands; Staatstoezicht op de Mijnen, Netherlands; Statistisk Sentralbyra, Norway; Instituto Nacional de Estatistica, Portugal; Unesid, Spain; Sveriges Geologiska Undersokning, Sweden; Jernkontoret, Sweden; Statistiska Centralbyran, Sweden; Department of Trade and Industry, United Kingdom; The Crown Estate, United Kingdom.

Units

The Statistics shown in this volume are expressed in metric units. The following factors are given for converting to non-metric units:

tonnes $\times 0.9842$ = long tons

tonnes $\times 1.1023$ = short tons

kilograms $\times 2.2046$ = pounds

kilograms $\times 32.1507$ = troy ounces

cubic metres $\times 35.3147$ = cubic feet

1 tonne of crude petroleum equals on average 7 barrels of crude petroleum

1 flask mercury = 34.5 kilograms

1 metric ton unit = 10 kilograms

Conversion of national currencies to pounds sterling has been made using the annual average factors shown for each country in *International Financial Statistics* published by the International Monetary Fund.

Symbols

| | |
|-----|------------------------------------|
| ... | figures not available |
| 0 | quantity less than half unit shown |
| — | nil |
| * | estimated |
| BGS | British Geological Survey |

Table notes for country tables

Aggregates – production

- (1) So far as possible, these statistics include construction sands; gravel, pebbles, shingle and flint; crushed stone used for concrete aggregates, roadstone and other construction use; granules, chippings and powders, listed under Prodcom codes 14211190, 14211210, 14211230, 14211250, 14211290
- (2) Where official sources show more than one series for aggregates the higher series has generally been used in this compilation
- (3) Where marine sands and gravels have been identified, these are included
- (4) Information may be incomplete or absent due to reporting methods, confidentiality or lack of available information. All EU31 countries produce sand and gravel and crushed rock
- (5) Production from many small operations are not officially compiled. The minimum number of employees for which establishments are required to report production varies between different countries and can also vary from year to year within a country
- (6) Quantities of sand from sand and gravel operations may be discarded due to low demand. This may or may not be included in the statistics

Aggregates - exports and imports

- (1) The figures in this table include construction sands, pebbles, gravel, shingle, flint, crushed rock, granules, chippings and powders covered by the Harmonised System codes 2505.90, 2517.10, 2517.41 and 2517.49
- (2) Exports include marine dredged sand and gravel landed at foreign ports

Bauxite - production

- (1) Including production of refractory bauxite

Alumina - production

- (1) Where possible figures show the alumina equivalent (Al_2O_3) of total hydrate produced, whether or not calcined

Bauxite, alumina and aluminium - exports and imports

- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
- (2) The term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars, etc.
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Antimony - mine production

- (1) Including antimony content of antimonial lead alloys

White arsenic - production

- (1) Including calculated trioxide equivalent of arsenic metal produced except where this would involve double counting

Arsenic - exports and imports

- (1) Data relating to arsenic are not fully recorded by many countries

Barytes - production

- (1) Small quantities of witherite may be included

Barytes - exports and imports

- (1) Trade in barytes is reported under item 2511 of the Harmonised System and is described as 'barytes and witherite'. However, only small quantities of witherite are traded

Production of Bentonite and Fuller's Earth

- (1) Bentonites consist of montmorillonite (one of the smectite group of clay minerals) and occur in two main varieties, calcium bentonite, the most commonly occurring, and sodium bentonite, industrially the more important
- (2) Calcium bentonite can be converted to sodium bentonite by a sodium-exchange process
- (3) In some countries, such as the United Kingdom, calcium bentonite is known as fuller's earth, a term which is also used to refer attapulgite, a mineralogically distinct clay mineral but exhibiting similar properties

Bentonite and Fuller's Earth - exports and imports

- (1) See notes 1 - 3 under production
- (2) The figures refer to natural and sodium-exchanged bentonite, and fuller's earth, Harmonised System 2508.10 and 2580.20
- (3) Activated bentonite and fuller's earth, Harmonised System 3802.90 are excluded
- (4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Harmonised System 3802.90, e.g. Italy

Bismuth - mine production

- (1) In some instances the figures are derived from reported bismuth content of refined and impure metal plus recoverable in ores and concentrates exported
- (2) Production for some countries may include bismuth produced from imported ores but it is thought that any resulting duplication is insignificant in the countries shown

Bismuth - exports and imports

- (1) The compounds are bismuth carbonate and/or bismuth nitrate

Bromine - exports and imports

- (1) Trade in bromine is not separately distinguished from other halogens by many countries

Cadmium - production

- (1) Data exclude secondary metal

Chromium - exports and imports

- (1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Coal - production

- (1) There is no international agreement as to the separate definition of lignite and brown coal. In some cases they are distinguished. Elsewhere both may be aggregated under one or other term

Coal - exports

- (1) Excludes bunker shipments

Cobalt metal - production

- (1) In addition, several countries including the United Kingdom, Finland and France are known to produce substantial amounts of cobalt compounds

Copper - smelter production

- (1) Primary metal in the form of blister and anode produced from concentrates is shown, and may include copper produced from scrap but this is excluded when it can be separately identified

Refined copper - production

(1) Figures relate to both primary and secondary refined copper, whether electrolytic or fire refined. Metal recovered from secondary materials by remelting alone is excluded

Copper - exports and imports

- (1) The term 'unwrought' copper corresponds to items 7402, 7403 and 7405 of the Harmonised System and includes both unrefined (including blister) and refined copper
- (2) The term 'unwrought', as used here, includes alloys unless these are separately specified. The term 'scrap' includes scrap alloys

Diamond - exports and imports

- (1) Carats have been used as the unit except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (2) See explanatory notes at the front of the volume regarding currency conversion
- (3) The term 'Dust' corresponds to item 7105.10 of the Harmonised System and includes both natural and synthetic diamond dust

Gold - mine production

- (1) In several countries substantial amounts of gold produced in small operations are not recorded in the official statistics

Gold - exports and imports

- (1) The term 'metal' includes both unwrought and partly worked gold and alloys but excludes gold coin

Graphite - production

- (1) Including all forms of amorphous and crystalline graphite but excluding synthetic material

Graphite - exports and imports

- (1) Excluding synthetic graphite

Gypsum - production

- (1) Some countries produce large quantities of synthetic gypsum. Where possible, this output is excluded

Gypsum - exports & imports

- (1) The term 'crude' may include some anhydrite

Pig iron - production

- (1) Sponge iron and direct reduced iron (DRI) are included where these have been separately identified

Crude steel - production

- (1) Figures include production from scrap unless otherwise indicated

Iron, steel and ferro-alloys - exports and imports

- (1) The term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

Refined Lead - production

- (1) Figures relate to both primary and secondary refined lead and include the lead content of antimonial lead. Metal recovered from materials by remelting alone is excluded

Lead - exports and imports

- (1) The term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars, etc

- (2) The term 'unwrought', as used here, includes alloys unless these are separately identified.

Magnesite and magnesia - exports and imports

- (1) The term 'magnesia', as used here, includes dead-burned, sintered and caustic-burned (caustic calcined) material

Manganese - exports and imports

- (1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Mercury - production

- (1) Several countries are believed to have unrecorded production of mercury from copper electrowinning processes and by recovery from effluents

Mica - exports and imports

- (1) Data show unmanufactured mica and include sheet, block, splittings, ground and waste, unless these are separately specified. Mica powder is included under the term 'ground'

Molybdenum - exports and imports

- (1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Nickel - smelter/refinery production

- (1) Data relate to refined nickel plus the nickel content of ferro-nickel, nickel oxide and nickel salts

Nickel - exports and imports

- (1) The term 'unwrought' nickel corresponds to item 7502 of the Harmonised System which excludes all electro-plating anodes
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Crude petroleum - production

- (1) The figures include natural gas liquids

Natural gas - production

- (1) Flared or reinjected gas is excluded as far as possible

Platinum group metals - exports and imports

- (1) The term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys

Rare earths - exports and imports

- (1) Rare earths are here taken to include yttrium and scandium

Salt - production

- (1) Refined salt is excluded
- (2) Salt is known to be produced in many countries for which statistics are not available.

Sillimanite minerals - production

- (1) A number of other countries produce sillimanite minerals but details of output are not reported

Sillimanite minerals - exports and imports

- (1) 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

Silver - exports and imports

- (1) Excluding silver coin but including silver shipped for minting
- (2) The term 'metal' includes both unwrought and partly worked silver and alloys

Tantalum and niobium - exports and imports

- (1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Tin - exports and imports

- (1) The term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc

Titanium minerals - production

- (1) The figures refer to gross tonnage of titanium concentrates

Titanium - exports and imports

- (1) Significant quantities of titanium slag are traded, but it is not always possible to identify this material in national trade accounts
- (2) So far as possible, the term 'oxides', includes oxides and oxide based pigments classified under Harmonised System items 2823 and 3206.10
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Tungsten - exports and imports

- (1) Significant amounts of tungsten are traded in the forms of ammonium paratungstate (APT) and carbide. Though statistics are included where available, most countries do not separately distinguish these forms in their trade accounts
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Uranium – mine production

- (1) Excludes uranium production from decommissioning operations.

Vanadium - exports and imports

- (1) The term 'pentoxide' also includes vanadium oxides and hydroxides, if any
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Zinc - exports and imports

- (1) The term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc

Zirconium - exports and imports

- (1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

STATISTICAL TABLES BY COUNTRY

Austria

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------|--------------------------|---------------|---------------|---------------|-------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel (c) | tonnes | 23 102 333 | 28 758 261 | 27 287 331 | 29 395 685 | 29 082 502 |
| Crushed rock (c) | tonnes | 22 404 109 | 22 438 122 | 26 333 481 | 27 687 041 | 25 204 014 |
| Cement, clinker | tonnes | ... | ... | ... | ... | 80 288 |
| Cement, finished | tonnes | 3 863 000 | 3 967 000 | *4 000 000 | 4 040 000 | 4 739 768 |
| Coal | | | | | | |
| Anthracite & bituminous | tonnes | ... | ... | ... | ... | 7 793 |
| Brown coal & lignite | tonnes | (e) 1 193 970 | (e) 1 411 824 | (e) 1 152 389 | (e) 235 397 | 6 138 |
| Copper, refined | tonnes | 66 154 | 64 900 | 65 100 | 74 200 | 72 300 |
| Graphite (a) | tonnes | 116 | — | — | — | — |
| Gypsum | | | | | | |
| Gypsum | tonnes | 790 478 | 847 117 | 889 727 | 920 809 | 911 162 |
| Anhydrite | tonnes | 138 745 | 122 085 | 113 823 | 117 318 | 106 032 |
| Iron ore (b) | tonnes | 1 843 275 | 1 941 759 | 2 124 787 | 1 889 419 | 2 047 950 |
| Pig iron | tonnes | 4 392 878 | 4 607 000 | 4 676 742 | 4 846 740 | 5 400 000 |
| Crude steel | tonnes | 5 870 000 | 6 189 000 | 6 261 000 | 6 530 000 | 7 031 000 |
| Ferro-alloys | | | | | | |
| Ferro-molybdenum | tonnes | 4 900 | 4 930 | 4 400 | 4 700 | 5 000 |
| Ferro-nickel | tonnes | 2 600 | 2 150 | 2 000 | 1 900 | 2 500 |
| Ferro-vanadium | tonnes | 5 800 | 5 500 | 5 300 | 5 800 | 6 250 |
| Kaolin | tonnes | 20 047 | 21 212 | 15 034 | 16 345 | 55 508 |
| Lead, refined | tonnes | 23 666 | *23 000 | *20 000 | *26 000 | *24 000 |
| Magnesite | tonnes | 680 534 | 728 235 | 766 525 | 715 459 | 693 754 |
| Nickel, smelter/refinery | tonnes | 1 300 | *1 000 | 1 000 | 300 | 400 |
| Crude petroleum | tonnes | 1 050 355 | 1 032 204 | 1 014 716 | 981 588 | 933 040 |
| Natural gas | million m ³ | 1 954 | 2 015 | 2 029 | 2 011 | 1 654 |
| Salt | | | | | | |
| Rock salt | tonnes | 1 384 | 1 491 | 1 610 | 1 228 | 1 497 |
| Salt in brine | tonnes | 646 000 | 641 634 | 723 286 | 745 670 | *745 000 |
| Sulphur and pyrites | | | | | | |
| Recovered (d) | tonnes (sulphur content) | 50 135 | 54 925 | 50 568 | 55 322 | 54 377 |
| Talc | tonnes | 137 776 | 138 195 | 137 596 | 136 305 | 166 569 |
| Tungsten, mine | tonnes (metal content) | 1 429 | 1 377 | 1 381 | 1 335 | 1 280 |

Note(s):-

(1) Austria is believed to produce arsenic & bentonite

- (a) Crude
- (b) Including micaceous iron oxide
- (c) Sales
- (d) From petroleum refining and/or natural gas
- (e) Coal; all forms

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 2 323 043 | 2 581 242 | 3 163 141 | 2 829 930 | 2 745 393 |
| Aluminium and bauxite | | | | | | |
| Unwrought | tonnes | 12 071 | 14 271 | 16 150 | 13 341 | 6 616 |
| Unwrought alloys | tonnes | 89 985 | 94 594 | 87 528 | 122 693 | 125 796 |
| Scrap | tonnes | 55 565 | 57 505 | 52 564 | 71 362 | 67 434 |
| Antimony | | | | | | |
| Metal | tonnes | 37 | 103 | 16 | 19 | 1 089 |
| Barytes | tonnes | 1 402 | 1 197 | 479 | 2 737 | 1 407 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 8 142 | 10 394 | 9 246 | 8 242 | 10 173 |
| Bismuth | | | | | | |
| Metal | tonnes | 24 | 0 | 8 | 8 | 8 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 60 212 | 47 401 | 54 375 | 58 262 | 32 877 |
| Portland cement | tonnes | 118 822 | 97 600 | 136 732 | 185 069 | 151 330 |
| Other cement | tonnes | 19 896 | 27 365 | 42 712 | 40 830 | 53 951 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|------------|------------|------------|------------|-------------|
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 647 | 896 | 1 155 | 392 | 276 |
| Metal | tonnes | 2 858 | 4 506 | 5 485 | 7 194 | 8 893 |
| Cobalt | | | | | | |
| Metal | tonnes | 50 | 173 | 85 | 22 | 5 |
| Copper | | | | | | |
| Unwrought | tonnes | 84 765 | 74 370 | 81 897 | 71 119 | 83 750 |
| Unwrought alloys | tonnes | 1 121 | 916 | 907 | 580 | 604 |
| Scrap | tonnes | 18 439 | 25 765 | 25 606 | 36 476 | 33 274 |
| Diamond | | | | | | |
| Unsorted | carats | £128 000 | £2 321 000 | £319 000 | £477 000 | £188 000 |
| Gem | carats | £1 511 000 | ... | ... | £1 665 000 | £2 895 000 |
| Dust | carats | £418 000 | £653 000 | £190 000 | £432 000 | £406 000 |
| Diatomite | tonnes | 5 802 | 5 071 | 4 650 | 5 347 | 5 375 |
| Feldspar | tonnes | 10 174 | 12 279 | 13 436 | 18 864 | 18 998 |
| Gold | | | | | | |
| Metal | kilograms | 16 800 | 18 000 | 10 900 | 11 500 | 8 500 |
| Waste & scrap | kilograms | 44 900 | 5 600 | 2 500 | 2 900 | 5 500 |
| Graphite | tonnes | 3 631 | 3 384 | 4 574 | 5 094 | 7 082 |
| Gypsum | | | | | | |
| Crude | tonnes | 54 034 | 46 524 | 21 562 | 22 732 | 21 433 |
| Calcined | tonnes | 72 827 | 82 493 | 97 840 | 100 444 | 94 207 |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-alloys | tonnes | 6 154 | 16 390 | 17 202 | 5 999 | 9 476 |
| Silicon metal | tonnes | 140 | 470 | 751 | 598 | 628 |
| Ingots, blooms, billets | tonnes | 177 057 | 217 580 | 256 981 | 334 124 | 484 431 |
| Scrap | tonnes | 754 489 | 777 267 | 842 323 | 1 099 278 | 1 024 301 |
| Kaolin | tonnes | 2 998 | 3 105 | 1 870 | 2 277 | 3 019 |
| Lead | | | | | | |
| Unwrought | tonnes | 6 375 | 7 831 | 8 988 | 14 504 | 10 746 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 82 | 5 489 | 2 401 | 642 | 1 338 |
| Magnesia | tonnes | 54 021 | 44 729 | 50 263 | 73 037 | 59 283 |
| Manganese | | | | | | |
| Metal | tonnes | 28 326 | 29 058 | 18 923 | 11 575 | 5 470 |
| Mercury | kilograms | 24 100 | 900 | 800 | 1 700 | 4 100 |
| Mica | tonnes | 2 951 | 3 512 | 3 767 | 3 917 | 4 915 |
| Molybdenum | | | | | | |
| Metal | tonnes | 2 023 | 2 123 | (b) *2 200 | (b) *2 300 | (b) *4 800 |
| Oxides | tonnes | 0 | 0 | 5 | 125 | ... |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 153 | 288 | 47 | 9 | ... |
| Unwrought (a) | tonnes | 532 | 570 | 206 | 297 | 226 |
| Scrap | tonnes | 495 | 377 | 440 | 1 520 | 1 927 |
| Crude petroleum | tonnes | 60 151 | ... | — | — | — |
| Phosphates | tonnes | 1 320 | 906 | 1 280 | 802 | 1 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | £2 785 000 | £2 827 000 | £4 556 000 | £8 114 000 | £12 253 000 |
| Waste & scrap | kilograms | ... | ... | £362 000 | £50 000 | £397 000 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | ... | (b) *2 500 | 1 750 | 1 564 | 1 980 |
| Other rare earth compounds | tonnes | ... | (b) *7 000 | 6 144 | 6 415 | 6 449 |
| Metals | tonnes | ... | ... | 417 | 456 | 421 |
| Salt | tonnes | ... | ... | 253 791 | 183 850 | 199 133 |
| Silver | | | | | | |
| Metal | kilograms | 116 900 | 101 000 | 87 800 | 77 400 | 62 600 |
| Sulphur and pyrites | | | | | | |
| Sulphur, sublimed & precipitated | tonnes | 6 707 | 14 596 | 9 265 | 8 435 | 9 245 |
| Talc | tonnes | 162 302 | 142 879 | 174 590 | 151 022 | 158 799 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 98 | 43 | ... | — | — |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 80 | 115 | 151 | 153 | 116 |
| Scrap | tonnes | 206 | 363 | 153 | 278 | 62 |

Austria

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------|--------|--------|--------|------------|------------|------------|
| Titanium | | | | | | |
| Metal | tonnes | 298 | 300 | 340 | 397 | 317 |
| Oxides | tonnes | 2 876 | 3 000 | 2 404 | 2 640 | 3 457 |
| Tungsten | | | | | | |
| Metal | tonnes | 967 | 813 | (b) *1 300 | (b) *2 400 | (b) *2 100 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 15 461 | 34 705 | 36 012 | 37 304 | 13 469 |
| Scrap | tonnes | 2 089 | 3 763 | 2 984 | 2 000 | 3 559 |

Note(s):-

- (a) Including alloys
- (b) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|--------------|--------------|--------------|------------|------------|
| Primary aggregates | tonnes | 2 293 185 | 2 545 866 | 2 446 023 | 2 087 667 | 2 516 839 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 25 581 | 21 354 | 31 082 | 36 791 | 36 123 |
| Alumina | tonnes | 43 134 | 41 141 | 43 318 | 23 636 | 41 269 |
| Alumina hydrate | tonnes | 5 937 | 6 538 | 7 779 | 6 372 | 10 125 |
| Unwrought | tonnes | 160 372 | 136 767 | 141 841 | 106 348 | 82 597 |
| Unwrought alloys | tonnes | 139 329 | 170 541 | 184 478 | 229 607 | 214 611 |
| Scrap | tonnes | (b) *123 900 | (b) *129 700 | (b) *143 400 | 128 798 | 150 412 |
| Antimony | | | | | | |
| Metal | tonnes | 205 | 270 | 120 | 53 | 74 |
| Oxide | tonnes | 146 | 190 | 207 | 316 | 263 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 28 | 16 | 5 | ... | 2 |
| Barytes | tonnes | 3 151 | 2 420 | 2 742 | 3 910 | 5 863 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 55 291 | 54 441 | 47 358 | 53 871 | 58 344 |
| Fuller's earth | tonnes | 45 | 129 | 560 | 615 | 374 |
| Bismuth | | | | | | |
| Metal | tonnes | 67 | 105 | 128 | 114 | 62 |
| Bromine | kilograms | 228 000 | 254 900 | 252 200 | 93 000 | 222 000 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 314 407 | 314 864 | 444 535 | 443 956 | 532 745 |
| Portland cement | tonnes | 717 691 | 804 924 | 763 455 | 773 897 | 860 087 |
| Other cement | tonnes | 29 489 | 18 597 | 17 434 | 51 811 | 43 083 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 37 321 | 28 384 | 36 348 | 26 761 | 21 398 |
| Metal | tonnes | 1 713 | 1 808 | 2 337 | 3 731 | 4 440 |
| Coal | | | | | | |
| Hard coal (c) | tonnes | 3 846 806 | 3 993 504 | 3 965 922 | 3 552 594 | 4 108 821 |
| Brown coal | tonnes | 52 745 | 61 439 | 59 077 | 38 833 | 2 139 |
| Briquettes | tonnes | 108 786 | 76 354 | 84 343 | 83 035 | 96 318 |
| Cobalt | | | | | | |
| Metal | tonnes | 415 | 345 | 30 | 585 | 694 |
| Copper | | | | | | |
| Unwrought, unrefined | tonnes | — | — | — | 15 203 | 20 081 |
| Unwrought, refined | tonnes | 35 845 | 24 707 | 29 479 | 18 429 | 21 176 |
| Unwrought alloys | tonnes | 3 164 | 2 555 | 3 103 | 2 460 | 2 260 |
| Scrap | tonnes | 59 281 | 80 512 | 82 015 | 87 807 | 82 787 |
| Diamond | | | | | | |
| Unsorted | carats | £2 616 000 | £1 647 000 | £1 734 000 | £1 193 000 | £1 254 000 |
| Gem, cut | carats | £4 963 000 | £3 789 000 | £4 329 000 | £4 660 000 | £5 743 000 |
| Industrial | carats | £461 000 | £115 000 | £105 000 | £631 000 | £706 000 |
| Dust | carats | 33 000 000 | 20 000 000 | 15 000 000 | 24 000 000 | 23 000 000 |
| Diatomite | tonnes | 21 396 | 24 364 | 12 946 | 13 178 | 12 892 |
| Feldspar | tonnes | 4 213 | 1 608 | 1 083 | 418 | 1 549 |
| Fluorspar | tonnes | 3 514 | 3 448 | 2 125 | 3 078 | 2 561 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Gold | | | | | | |
| Metal | kilograms | 21 300 | 17 300 | 26 500 | 17 300 | 22 100 |
| Waste & scrap | kilograms | 400 | 1 200 | 200 | 200 | 1 800 |
| Graphite | tonnes | 5 521 | 6 004 | 4 971 | 7 229 | 13 655 |
| Gypsum | | | | | | |
| Crude | tonnes | 16 701 | 17 429 | 23 705 | 16 985 | 15 280 |
| Calcined | tonnes | 41 988 | 48 808 | 59 897 | 70 261 | 66 118 |
| Iodine | kilograms | 101 600 | 81 000 | 85 500 | 124 100 | 92 700 |
| Iron ore | tonnes | ... | ... | 5 691 360 | 5 783 359 | 7 423 015 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 34 724 | 30 284 | 34 462 | 66 196 | 51 982 |
| Sponge & powder | tonnes | 10 385 | 14 873 | 12 042 | 10 917 | 25 214 |
| Ferro-chrome | tonnes | 33 710 | 24 412 | 32 874 | 43 438 | 41 046 |
| Ferro-silico-magnesium | tonnes | 829 | 877 | 969 | 627 | 678 |
| Ferro-manganese | tonnes | 24 511 | 37 772 | 34 748 | 39 026 | 37 865 |
| Ferro-silico-manganese | tonnes | 5 054 | 4 829 | 11 795 | 6 817 | 26 572 |
| Ferro-molybdenum | tonnes | 1 087 | 1 348 | 1 066 | 1 011 | 617 |
| Ferro-niobium & ferro-niobium-tantalum | tonnes | 543 | 781 | 1 669 | 934 | 899 |
| Ferro-phosphorus | tonnes | 990 | 1 023 | 1 645 | 1 433 | 1 749 |
| Ferro-silicon | tonnes | 20 884 | 23 493 | 36 918 | 47 223 | 32 445 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 737 | 1 136 | 1 427 | 961 | 1 121 |
| Ferro-tungsten & Fe-Si-W | tonnes | 845 | 562 | 712 | 589 | 535 |
| Ferro-vanadium | tonnes | 622 | 571 | 643 | 587 | 256 |
| Other ferro-alloys | tonnes | 3 640 | 3 083 | 3 631 | 3 321 | 3 981 |
| Silicon metal | tonnes | 8 478 | 10 273 | 9 822 | 9 127 | 11 698 |
| Ingots, blooms, billets | tonnes | 163 944 | 120 409 | 99 393 | 156 796 | 108 004 |
| Scrap | tonnes | 833 909 | 865 061 | 936 512 | 1 017 497 | 1 113 082 |
| Kaolin | tonnes | 254 030 | 249 132 | 228 674 | 249 353 | 234 906 |
| Lead | | | | | | |
| Unwrought | tonnes | 46 677 | 44 878 | 37 927 | 39 533 | 23 062 |
| Scrap | tonnes | 1 921 | 1 844 | 2 672 | 2 192 | 1 068 |
| Lithium | | | | | | |
| Carbonate | tonnes | 114 | 113 | 118 | 115 | 182 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 2 878 | 13 115 | 12 935 | 4 814 | 17 019 |
| Magnesia | tonnes | 26 220 | 20 545 | 9 325 | 181 050 | 188 449 |
| Manganese | | | | | | |
| Metal | tonnes | 19 889 | 18 223 | 10 024 | 6 497 | 8 707 |
| Mercury | kilograms | 2 400 | 5 700 | 4 000 | 3 900 | 1 600 |
| Mica | tonnes | 570 | 599 | 899 | 645 | 512 |
| Molybdenum | | | | | | |
| Metal | tonnes | 197 | 356 | 382 | 865 | 599 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 552 | 737 | 401 | 369 | 460 |
| Unwrought (a) | tonnes | 5 150 | 4 554 | 5 251 | 6 772 | 6 903 |
| Scrap | tonnes | 540 | 641 | 520 | 632 | 447 |
| Oxides | tonnes | 853 | 609 | 430 | 293 | 312 |
| Crude petroleum | tonnes | 7 858 165 | 8 128 843 | 7 819 276 | 7 539 310 | 7 836 688 |
| Phosphates | tonnes | ... | ... | 237 605 | 210 010 | 67 853 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 600 | 2 900 | 9 400 | 9 400 | 7 200 |
| Potash | | | | | | |
| Fertiliser salts | tonnes | 17 357 | 19 531 | 20 424 | 23 040 | 23 685 |
| Chloride | tonnes | 3 618 | 5 318 | 159 216 | 145 757 | 144 234 |
| Other potassic fertilisers | tonnes | 5 874 | 4 685 | 17 997 | 22 629 | 15 713 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 2 287 | 2 025 | 2 810 | 2 034 | 3 055 |
| Other rare earth compounds | tonnes | 5 534 | 3 128 | 3 062 | 3 973 | 2 685 |
| Metals | tonnes | 409 | 324 | 457 | 463 | 374 |
| Salt | tonnes | 59 742 | 92 209 | 206 355 | 350 903 | 210 736 |
| Sillimanite | tonnes | 3 531 | 2 499 | 2 660 | 1 981 | 2 194 |
| Silver | | | | | | |
| Metal | kilograms | 138 500 | 100 900 | 109 300 | 127 600 | 127 900 |

Austria

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|--------|---------|---------|----------|------------|---------|
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 1 040 | 1 064 | 2 107 | 3 126 | 3 251 |
| Sulphur | tonnes | 22 055 | 44 365 | 64 198 | 58 218 | 60 054 |
| Sulphur, sublimed & precipitated | tonnes | 314 | 237 | 388 | 6 339 | 9 589 |
| Talc | tonnes | 50 199 | 46 833 | 30 831 | 49 930 | 50 768 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 12 | 3 | 54 | 64 | 0 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 838 | 906 | 702 | 765 | 1 926 |
| Scrap | tonnes | 186 | 208 | 174 | 170 | 79 |
| Titanium | | | | | | |
| Metal | tonnes | 1 594 | 1 062 | 441 | 943 | 1 691 |
| Oxides | tonnes | 19 343 | 19 478 | 18 528 | 18 612 | 25 640 |
| Tungsten | | | | | | |
| Metal | tonnes | 399 | 235 | 271 | 400 | 825 |
| Carbide | tonnes | 703 | 399 | ... | ... | ... |
| Vanadium | | | | | | |
| Vanadiferous residues | tonnes | *26 000 | *25 000 | *25 000 | *27 000 | *29 000 |
| Ores & concentrates | tonnes | 527 | 488 | 459 | 467 | 1 565 |
| Pentoxide | tonnes | 1 477 | 1 042 | (b) *400 | (b) *1 000 | ... |
| Metal | tonnes | 0 | 7 | 2 | 9 | — |
| Zinc | | | | | | |
| Unwrought | tonnes | 54 380 | 51 331 | 58 968 | 47 866 | 58 838 |
| Unwrought alloys | tonnes | 22 617 | 23 414 | 24 621 | 31 444 | 28 955 |
| Scrap | tonnes | 1 233 | 1 774 | 1 643 | 2 035 | 609 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 1 127 | 1 526 | 1 206 | 1 486 | 1 200 |

Note(s):-

- (a) Including alloys
- (b) BGS estimates, based on known exports from certain countries
- (c) Including anthracite

Belgium

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|--------------------------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel (a) (b) | tonnes | 11 064 638 | 10 449 346 | 9 245 757 | 8 787 817 | 8 330 239 |
| Crushed rock (a) (c) | tonnes | 39 270 358 | 39 772 457 | 36 772 879 | 38 562 546 | 40 388 027 |
| White arsenic | tonnes | *1 000 | *1 000 | *1 000 | *1 000 | *1 000 |
| Cadmium | tonnes | 1 236 | 117 | — | — | — |
| Cement clinker | tonnes | 1 121 656 | 1 301 790 | ... | ... | ... |
| Cement, finished | tonnes | 7 241 000 | 7 103 000 | 6 553 000 | 6 216 000 | 6 587 000 |
| Cobalt metal | tonnes | *1 090 | 1 135 | 1 704 | (d) 2 947 | (d) 3 298 |
| Copper, refined | tonnes | 424 000 | 422 500 | 423 000 | 383 000 | 382 900 |
| Pig iron | tonnes | 7 732 111 | 7 988 396 | 7 812 593 | 8 224 000 | 7 254 000 |
| Crude steel | tonnes | 10 741 493 | 11 322 008 | 11 114 775 | 11 697 000 | 10 422 000 |
| Ferro-alloys | | | | | | |
| Ferro-vanadium | tonnes | 926 | 1 492 | ... | ... | ... |
| Kaolin | tonnes | *300 000 | *300 000 | *300 000 | *300 000 | *300 000 |
| Lead, refined | tonnes | 100 000 | 88 000 | 65 000 | 62 000 | 97 200 |
| Selenium metal | tonnes | *200 | *200 | *200 | *200 | *200 |
| Sulphur and pyrites | | | | | | |
| Recovered (e) (f) | tonnes (sulphur content) | 368 000 | 359 000 | 383 000 | 371 000 | 376 000 |
| Tin, smelter | tonnes | 8 500 | 8 900 | 7 700 | 8 900 | 7 700 |
| Slab zinc | tonnes | 256 400 | 238 700 | 244 400 | 272 500 | 222 000 |

Note(s):-

- (a) Deliveries
- (b) Includes silica sand
- (c) Includes gravel, slag and tarred macadam
- (d) Some metal production in China is recorded in Belgium
- (e) From metal sulphide processing
- (f) From petroleum refining and/or natural gas

Luxembourg

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Cement clinker | tonnes | 844 000 | 895 000 | 770 000 | 847 000 | 834 000 |
| Cement, finished | tonnes | 726 000 | 729 000 | 709 000 | 797 000 | 767 000 |
| Crude steel | tonnes | 2 724 679 | 2 736 000 | 2 675 000 | 2 684 000 | 2 194 000 |

Belgium-Luxembourg

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|--------|-------------|-------------|------------|------------|------------|
| Primary aggregates | tonnes | 15 784 851 | 15 340 439 | 13 562 764 | 13 208 283 | 14 573 270 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 63 483 | 73 550 | 98 961 | 54 734 | 46 717 |
| Alumina | tonnes | 3 608 | 8 955 | 7 058 | ... | 10 714 |
| Unwrought | tonnes | 142 931 | 234 880 | 157 800 | 266 682 | 267 811 |
| Unwrought alloys | tonnes | 41 445 | 52 402 | 40 919 | 42 010 | 38 889 |
| Scrap | tonnes | 161 980 | 151 468 | 133 871 | 137 374 | 149 914 |
| Antimony | | | | | | |
| Metal | tonnes | 2 | 48 | 181 | 493 | 693 |
| Oxide | tonnes | (a) *11 700 | (a) *11 700 | 12 063 | 12 443 | 11 526 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 29 | 62 | 27 | 10 | 101 |
| Barytes | tonnes | 6 707 | 1 781 | 1 424 | 3 646 | 4 016 |

Belgium-Luxembourg

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|------------|-------------|-------------|-------------|
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 5 642 | 14 819 | 28 403 | 22 700 | 26 049 |
| Bismuth | | | | | | |
| Compounds | tonnes | 1 415 | ... | ... | ... | ... |
| Bromine | kilograms | 21 200 000 | 21 462 800 | 17 930 400 | 21 275 800 | 19 124 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 1 525 | 607 | 1 018 | 746 | 639 |
| Sulphide | tonnes | 31 | 17 | 10 | 15 | 29 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 1 111 745 | 767 780 | 749 249 | 842 257 | 833 257 |
| Portland cement | tonnes | 1 432 246 | 1 854 749 | 1 815 882 | 1 598 742 | 1 715 979 |
| Other cement | tonnes | 840 274 | 687 836 | 592 657 | 616 066 | 612 642 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 17 051 | 9 510 | 5 491 | 2 433 | 10 777 |
| Metal | tonnes | 318 | 262 | 660 | 852 | 782 |
| Coal | | | | | | |
| Anthracite | tonnes | 1 029 455 | 940 201 | 999 793 | 1 399 280 | 1 463 646 |
| Other coal | tonnes | 1 309 947 | 1 783 567 | 1 777 869 | 2 273 223 | 2 948 838 |
| Briquettes | tonnes | 15 955 | 43 484 | 19 122 | ... | 11 682 |
| Cobalt | | | | | | |
| Ore | tonnes | 104 | 145 | 381 | 1 064 | 543 |
| Metal (b) | tonnes | *3 300 | *3 600 | *3 800 | *3 900 | *3 100 |
| Oxides (b) | tonnes | *3 200 | *3 800 | *6 900 | *2 100 | *5 200 |
| Copper | | | | | | |
| Matte & cement | tonnes | 631 | 15 222 | ... | 493 | ... |
| Unwrought, unrefined | tonnes | 12 322 | 3 537 | 10 521 | 19 942 | 4 499 |
| Unwrought, refined | tonnes | 240 995 | 201 367 | 336 637 | 169 556 | 241 363 |
| Unwrought alloys | tonnes | 20 265 | 14 815 | 21 710 | 13 556 | 14 463 |
| Scrap | tonnes | 136 612 | 127 668 | 152 584 | 169 397 | 177 787 |
| Diamond | | | | | | |
| Gem, rough | carats | 122 500 000 | ... | 131 000 000 | 154 000 000 | 147 000 000 |
| Gem, cut | carats | 4 500 000 | 8 000 000 | 6 500 000 | 6 000 000 | 5 500 000 |
| Industrial | carats | 8 000 000 | 8 000 000 | 10 500 000 | 7 000 000 | 5 500 000 |
| Dust | carats | 24 500 000 | 39 500 000 | 38 000 000 | 42 500 000 | 40 000 000 |
| Diatomite | tonnes | 3 575 | 3 174 | 1 512 | 1 856 | 1 330 |
| Fluorspar | tonnes | 298 | 219 | 22 639 | 4 208 | 26 395 |
| Gold | | | | | | |
| Metal | kilograms | 3 200 | 2 000 | 500 | 1 200 | 100 |
| Waste & scrap | kilograms | £1 365 000 | ... | £1 316 000 | ... | ... |
| Graphite | tonnes | 4 878 | 5 653 | 9 097 | 581 | 834 |
| Gypsum | | | | | | |
| Crude | tonnes | 104 842 | 59 688 | 64 538 | 91 110 | 46 691 |
| Calcined | tonnes | 3 998 | 3 628 | 2 556 | 175 496 | 2 709 |
| Iodine | kilograms | 1 908 400 | 2 351 000 | 4 904 400 | 3 646 100 | 3 460 200 |
| Iron ore | tonnes | 43 578 | 70 035 | 43 752 | 23 450 | 81 560 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 116 359 | 172 175 | 227 815 | 225 486 | 201 577 |
| Sponge & powder | tonnes | 4 395 | 13 263 | 18 741 | 29 127 | 15 850 |
| Ferro-chrome | tonnes | 39 937 | 41 565 | 39 778 | 32 998 | 31 851 |
| Ferro-silico-chrome | tonnes | ... | 3 593 | 10 381 | 7 214 | 9 107 |
| Ferro-silico-magnesium | tonnes | 1 171 | 38 | 79 | 39 | 11 |
| Ferro-manganese | tonnes | 24 367 | 23 985 | 16 246 | 9 621 | 11 674 |
| Ferro-silico-manganese | tonnes | 31 139 | 29 953 | 38 032 | 41 307 | 29 858 |
| Ferro-molybdenum | tonnes | ... | ... | ... | 19 219 | 22 420 |
| Ferro-silicon | tonnes | 30 427 | 30 962 | 18 856 | 31 000 | 21 812 |
| Other ferro-alloys | tonnes | 9 135 | 4 342 | 9 678 | 6 445 | 6 700 |
| Silicon metal | tonnes | 12 440 | 5 873 | 8 227 | 6 078 | 9 095 |
| Ingots, blooms, billets | tonnes | 498 122 | 548 174 | 395 499 | 368 589 | 639 936 |
| Scrap | tonnes | 1 799 938 | 1 821 636 | 2 310 658 | 2 851 040 | 2 712 683 |
| Kaolin | tonnes | 357 363 | 332 718 | 539 940 | 664 743 | 777 451 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 96 613 | 104 187 | 84 545 | 109 580 | 96 610 |
| Unwrought | tonnes | 96 885 | 84 303 | 104 827 | 93 316 | 110 372 |
| Scrap | tonnes | 9 465 | 6 981 | 6 307 | 12 736 | 9 142 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|----------|-----------|-----------|-----------|-----------|
| Lithium | | | | | | |
| Oxides | tonnes | 470 | 548 | 982 | 1 837 | 1 545 |
| Carbonate | tonnes | 3 392 | 3 935 | 4 000 | 10 053 | 4 999 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 276 | 440 | 7 061 | 512 | 575 |
| Magnesia | tonnes | 60 846 | 73 182 | 134 268 | 53 755 | 52 665 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 47 237 | 16 949 | 13 476 | 11 300 | 10 648 |
| Metal | tonnes | 4 129 | 3 216 | 3 091 | 1 377 | 1 826 |
| Mercury | kilograms | 54 100 | 15 900 | 17 000 | 1 300 | 8 800 |
| Mica | tonnes | 829 | 915 | 1 907 | 1 635 | 3 226 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 9 864 | 9 271 | 11 690 | 16 219 | 17 683 |
| Metal | tonnes | 543 | 199 | 314 | 221 | 342 |
| Oxides | tonnes | 242 | 1 621 | 820 | 571 | 687 |
| Nickel | | | | | | |
| Unwrought | tonnes | 12 265 | 12 351 | 9 848 | 16 290 | 13 376 |
| Unwrought alloys | tonnes | 2 531 | 1 752 | 1 947 | 2 843 | 2 510 |
| Scrap | tonnes | 2 595 | 6 118 | 1 114 | 1 694 | 1 008 |
| Oxides | tonnes | 380 | 712 | 268 | 772 | 702 |
| Crude petroleum | tonnes | 328 893 | 2 319 755 | 2 263 897 | 2 967 608 | 2 616 977 |
| Phosphates | tonnes | 43 858 | 54 563 | 75 856 | 101 115 | 108 238 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 3 000 | 3 200 | 2 000 | 1 000 | 700 |
| Platinum metals | kilograms | 8 300 | 7 300 | 2 100 | 4 400 | 2 100 |
| Waste & scrap | kilograms | 762 100 | 319 342 | 239 700 | 245 596 | 305 700 |
| Potash | | | | | | |
| Fertiliser salts | tonnes | 3 172 | 5 313 | 1 193 | 441 | 127 |
| Sulphate (a) | tonnes | *399 600 | *444 600 | *490 000 | *685 000 | *598 000 |
| Chloride | tonnes | 184 145 | 211 383 | 142 227 | 140 950 | 116 862 |
| Other potassic fertilisers | tonnes | 4 561 | 5 803 | 4 756 | 7 993 | 9 773 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 1 060 | 452 | 743 | 721 | 413 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 9 | 7 | 2 | 0 | ... |
| Metals | tonnes | 265 | 160 | 158 | 237 | 187 |
| Salt | tonnes | 68 728 | 129 726 | 117 806 | 105 680 | 121 103 |
| Sillimanite | tonnes | 6 368 | 5 783 | 22 825 | 49 319 | 77 463 |
| Silver | | | | | | |
| Ores & concentrates | kilograms | ... | 1 128 700 | 56 900 | 29 800 | 7 200 |
| Metal | kilograms | 27 300 | 67 500 | 47 600 | 24 100 | 12 600 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 41 761 | 44 882 | 40 984 | 36 824 | 47 927 |
| Sulphur, sublimed & precipitated | tonnes | 239 | 291 | 350 | 338 | 290 |
| Talc | tonnes | 81 767 | 86 924 | 92 350 | 128 120 | 168 900 |
| Tin | | | | | | |
| Unwrought | tonnes | 7 897 | 8 883 | 7 538 | 8 803 | 6 814 |
| Unwrought alloys | tonnes | 338 | 138 | 171 | 184 | 388 |
| Scrap | tonnes | 116 | 28 | 601 | 607 | 362 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 2 718 | 113 342 | 123 823 | 139 393 | 131 597 |
| Metal | tonnes | 1 348 | 1 296 | 1 214 | 1 031 | 1 093 |
| Oxides | tonnes | 286 659 | 314 469 | 348 005 | 397 481 | 366 632 |
| Tungsten | | | | | | |
| Metal | tonnes | 448 | 259 | 374 | 404 | 452 |
| Carbide | tonnes | 26 | 21 | 35 | 39 | 25 |
| Vanadium | | | | | | |
| Vanadiferous residues | tonnes | 4 408 | 3 414 | 3 129 | ... | ... |
| Ores & concentrates | tonnes | ... | 218 | 748 | 1 456 | 2 600 |
| Pentoxide | tonnes | 26 | 46 | 22 | 9 | 2 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 332 101 | 101 157 | 232 845 | 384 652 | 511 730 |
| Unwrought | tonnes | 89 817 | 114 430 | 130 356 | 136 768 | 10 058 |
| Scrap | tonnes | 22 938 | 28 597 | 19 485 | 26 546 | 37 754 |

Belgium-Luxembourg

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------|--------|--------|--------|--------|--------|--------|
| Zirconium | | | | | | |
| Concentrates | tonnes | 14 979 | 18 253 | 10 047 | 11 105 | 22 965 |
| Metal | tonnes | 193 | 233 | 163 | 170 | 222 |

Note(s):-

- (a) BGS estimates, based on known imports into certain countries
- (b) Exports of cobalt are not separately recorded. Figures shown are BGS estimates based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 23 173 017 | 17 771 910 | 19 492 423 | 20 219 032 | 20 831 220 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 112 399 | 106 310 | 102 691 | 82 208 | 87 376 |
| Alumina | tonnes | 8 785 | 9 983 | 11 350 | 12 942 | 10 879 |
| Alumina hydrate | tonnes | 35 659 | 43 902 | 43 941 | 33 798 | 37 831 |
| Unwrought | tonnes | 448 703 | 473 246 | 382 266 | 513 835 | 497 013 |
| Unwrought alloys | tonnes | 151 061 | 196 413 | 217 309 | 235 761 | 265 937 |
| Scrap | tonnes | 185 465 | 157 885 | 146 723 | 157 812 | 158 799 |
| Antimony | | | | | | |
| Ores & concentrates | tonnes | 6 | 491 | 6 | 13 | 5 |
| Metal | tonnes | 11 928 | 13 379 | 11 409 | 12 225 | 10 722 |
| Oxide | tonnes | 900 | 1 583 | 1 615 | 1 708 | 1 735 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 73 | 75 | 90 | 95 | 164 |
| Asbestos | tonnes | 65 | ... | 1 | 63 | ... |
| Barytes | tonnes | 6 706 | 5 369 | 6 045 | 3 255 | 3 432 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 24 730 | 27 239 | 33 129 | 35 509 | 45 282 |
| Fuller's earth | tonnes | 6 362 | 6 626 | 6 428 | 11 164 | 8 028 |
| Bismuth | | | | | | |
| Metal | tonnes | 1 | 4 | 4 | 20 | 27 |
| Bromine | kilograms | 23 057 000 | 25 627 900 | 21 097 900 | 23 466 200 | 25 108 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 7 828 | 5 121 | 4 914 | 4 064 | 4 779 |
| Sulphide | tonnes | 46 | 4 | 18 | — | 29 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 133 317 | 64 453 | 256 355 | 553 911 | 442 986 |
| Portland cement | tonnes | 809 758 | 795 844 | 846 044 | 956 062 | 898 871 |
| Other cement | tonnes | 159 414 | 187 371 | 292 756 | 314 515 | 275 177 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 5 789 | 4 179 | 4 644 | 6 094 | 18 464 |
| Metal | tonnes | 629 | 664 | 765 | 821 | 1 245 |
| Coal | | | | | | |
| Anthracite | tonnes | 1 138 122 | 3 412 532 | 3 439 165 | 4 134 160 | 3 293 344 |
| Other coal | tonnes | 9 829 971 | 8 263 921 | 8 342 288 | 9 728 235 | 8 997 265 |
| Brown coal | tonnes | 232 063 | 244 300 | 219 162 | 232 809 | 229 192 |
| Briquettes | tonnes | 52 887 | 53 715 | 14 717 | 3 924 | 14 120 |
| Cobalt | | | | | | |
| Ore | tonnes | 50 | — | 67 | 455 | 263 |
| Metal (a) | tonnes | *4 600 | *4 800 | *7 200 | *6 300 | *5 100 |
| Oxides | tonnes | 667 | 644 | 800 | 1 103 | (b) *1 300 |
| Copper | | | | | | |
| Matte & cement | tonnes | 16 | — | 9 | 4 799 | 370 |
| Unwrought, unrefined | tonnes | 148 800 | 209 172 | 291 190 | 291 111 | 237 645 |
| Unwrought, refined | tonnes | 44 050 | 36 907 | 58 266 | 17 318 | 9 515 |
| Unwrought alloys | tonnes | 3 657 | 1 659 | 1 641 | 1 510 | 1 906 |
| Scrap | tonnes | 245 104 | 261 567 | 225 822 | 256 504 | 257 738 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Diamond | | | | | | |
| Unsorted | carats | £80 231 000 | £45 615 000 | £36 269 000 | £41 932 000 | £37 971 000 |
| Gem, rough | carats | 123 000 000 | ... | 126 000 000 | 121 500 000 | 134 500 000 |
| Gem, cut | carats | 8 500 000 | 9 500 000 | 6 500 000 | 7 500 000 | 6 500 000 |
| Industrial | carats | 25 000 000 | 26 500 000 | 19 500 000 | 15 000 000 | 14 500 000 |
| Dust | carats | 56 500 000 | 72 000 000 | 21 000 000 | 26 500 000 | 30 500 000 |
| Diatomite | tonnes | 9 067 | 8 357 | 7 507 | 9 052 | 8 192 |
| Feldspar | tonnes | 25 250 | 24 632 | 30 225 | 30 969 | 25 876 |
| Fluorspar | tonnes | 13 662 | 11 565 | 33 622 | 10 571 | 70 149 |
| Gold | | | | | | |
| Metal | kilograms | 2 300 | 3 200 | 9 100 | 12 400 | 14 400 |
| Graphite | tonnes | 9 948 | 10 638 | 12 414 | 3 301 | 3 040 |
| Gypsum | | | | | | |
| Crude | tonnes | 701 760 | 719 403 | 524 938 | 713 502 | 768 702 |
| Calcined | tonnes | 329 502 | 322 930 | 290 348 | 366 504 | 460 067 |
| Iodine | kilograms | 2 006 900 | 2 357 000 | 4 817 700 | 3 419 800 | 3 332 800 |
| Iron ore | tonnes | 11 223 322 | 12 204 732 | 11 577 845 | 10 655 707 | 9 384 885 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 233 325 | 270 015 | 291 507 | 396 174 | 330 709 |
| Sponge & powder | tonnes | 8 425 | 13 234 | 26 084 | 107 639 | 48 915 |
| Ferro-chrome | tonnes | 155 561 | 176 217 | 198 691 | 215 638 | 220 896 |
| Ferro-silico-chrome | tonnes | 7 992 | 3 426 | 12 392 | 7 435 | 9 587 |
| Ferro-silico-magnesium | tonnes | 1 414 | 425 | 327 | 993 | 1 656 |
| Ferro-manganese | tonnes | 63 766 | 67 683 | 54 564 | 49 305 | 60 564 |
| Ferro-silico-manganese | tonnes | 58 555 | 56 769 | 54 676 | 56 622 | 60 454 |
| Ferro-molybdenum | tonnes | 2 355 | 3 573 | 5 141 | 4 317 | 5 199 |
| Ferro-nickel | tonnes | 36 455 | 42 337 | 32 673 | 51 796 | 61 454 |
| Ferro-niobium | tonnes | 849 | 720 | 719 | 712 | 849 |
| Ferro-phosphorus | tonnes | 604 | 769 | 1 124 | 1 237 | 1 700 |
| Ferro-silicon | tonnes | 67 460 | 73 251 | 63 474 | 93 591 | 79 901 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 1 436 | 1 761 | 2 069 | 1 677 | 2 141 |
| Ferro-tungsten & Fe-Si-W | tonnes | ... | ... | ... | ... | 309 |
| Ferro-vanadium | tonnes | 331 | 182 | 412 | 568 | 650 |
| Other ferro-alloys | tonnes | 4 791 | 8 591 | 5 186 | 9 673 | 10 854 |
| Silicon metal | tonnes | 12 750 | 14 985 | 15 579 | 15 136 | 18 563 |
| Ingots, blooms, billets | tonnes | 2 631 575 | 2 383 948 | 3 894 592 | 2 814 705 | 3 452 850 |
| Scrap | tonnes | 2 740 480 | 3 146 151 | 3 896 924 | 4 413 160 | 3 761 788 |
| Kaolin | tonnes | 467 193 | 607 908 | 890 277 | 1 023 999 | 962 536 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 101 613 | 115 471 | 80 203 | 117 597 | 134 300 |
| Unwrought | tonnes | 30 894 | 27 490 | 20 874 | 27 042 | 18 807 |
| Scrap | tonnes | 38 002 | 25 527 | 28 028 | 26 904 | 26 699 |
| Lithium | | | | | | |
| Oxides | tonnes | 784 | 1 159 | 1 197 | (a) *2 000 | 2 014 |
| Carbonate | tonnes | 5 136 | 5 879 | 5 086 | 6 108 | 6 205 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 12 733 | 2 547 | 7 167 | 505 | 767 |
| Magnesia | tonnes | 90 663 | 73 514 | 151 590 | 65 125 | 84 730 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 106 749 | 72 216 | 79 645 | 73 953 | 66 840 |
| Metal | tonnes | 8 136 | 5 413 | 4 480 | 2 466 | 4 150 |
| Mercury | kilograms | 18 000 | 22 600 | 29 200 | 54 700 | 18 600 |
| Mica | | | | | | |
| Unmanufactured | tonnes | ... | 276 | 89 | 1 588 | 913 |
| Ground | tonnes | 1 033 | 1 359 | 3 223 | 4 311 | 2 996 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 19 527 | 24 746 | 36 903 | 45 922 | 54 452 |
| Metal | tonnes | 1 196 | 277 | 179 | 277 | 383 |
| Oxides | tonnes | 635 | 730 | 2 702 | 1 519 | 2 072 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 33 | 216 | 61 | 162 | 214 |
| Unwrought | tonnes | 33 851 | 32 016 | 41 648 | 42 387 | 41 364 |
| Unwrought alloys | tonnes | 682 | 488 | 636 | 979 | 822 |
| Scrap | tonnes | 2 577 | 2 611 | 828 | 1 644 | 1 221 |
| Oxides | tonnes | 292 | 326 | 497 | 366 | 324 |

Belgium-Luxembourg

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|--------------|------------|------------|------------|------------|
| Crude petroleum | tonnes | 38 628 736 | 37 490 772 | 42 731 484 | 34 210 727 | 34 417 017 |
| Phosphates | tonnes | 1 395 630 | 1 668 206 | 1 664 247 | 1 545 478 | 1 688 029 |
| Platinum metals | | | | | | |
| Platinum | kilograms | ... | 3 044 | 2 481 | 19 590 | ... |
| Platinum metals | kilograms | ... | 7 545 | 11 324 | 235 | 1 978 |
| Waste & scrap | kilograms | £129 469 000 | ... | ... | ... | ... |
| Potash | | | | | | |
| Fertiliser salts | tonnes | 22 677 | 23 295 | 24 355 | 26 328 | 17 331 |
| Sulphate | tonnes | 183 131 | 203 971 | 213 779 | 212 176 | 260 839 |
| Chloride | tonnes | 1 014 654 | 1 175 981 | 1 163 936 | 1 276 732 | 1 211 640 |
| Other potassic fertilisers | tonnes | 18 801 | 19 044 | 21 700 | 22 357 | 17 698 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 831 | 639 | 843 | 615 | 411 |
| Other rare earth compounds | tonnes | 375 | 126 | 143 | 287 | 139 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 89 | 30 | ... | ... | ... |
| Metals | tonnes | 279 | 225 | 195 | 226 | 252 |
| Salt | tonnes | 3 285 692 | 3 411 148 | 1 895 987 | 1 236 192 | 1 315 385 |
| Sillimanite | tonnes | 10 972 | 10 499 | 29 333 | 53 146 | 81 538 |
| Silver | | | | | | |
| Metal | kilograms | 875 300 | 652 200 | 735 100 | 476 800 | 175 200 |
| Sulphur and pyrites | | | | | | |
| Sulphur, crude | tonnes | 162 134 | 155 665 | 152 598 | 152 830 | 167 624 |
| Sulphur, refined | tonnes | 277 195 | 218 830 | 241 917 | 305 518 | 322 649 |
| Sulphur, sublimed & precipitated | tonnes | 178 | 25 | 103 | 28 | 127 |
| Talc | tonnes | 105 971 | 115 112 | 124 455 | 135 046 | 224 624 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 1 | 7 | 41 | 20 | 1 |
| Tin | | | | | | |
| Unwrought | tonnes | 1 050 | 1 223 | 490 | 1 686 | 1 210 |
| Unwrought alloys | tonnes | 2 208 | 2 464 | 2 737 | 3 421 | 1 284 |
| Scrap | tonnes | 3 312 | 4 756 | 4 816 | 5 726 | 1 382 |
| Titanium | | | | | | |
| Ilmenite | tonnes | 71 | 9 889 | 11 632 | ... | — |
| Other titanium minerals | tonnes | 56 785 | 132 921 | 164 624 | 165 288 | 165 711 |
| Titanium slag | tonnes | 44 909 | 41 594 | ... | ... | ... |
| Metal | tonnes | 1 791 | 1 516 | 1 712 | 1 868 | 2 289 |
| Oxides | tonnes | 224 507 | 271 627 | 272 441 | 339 444 | 291 670 |
| Tungsten | | | | | | |
| Metal | tonnes | 405 | 279 | 404 | 372 | 340 |
| Carbide | tonnes | 39 | 70 | 51 | 42 | 42 |
| Vanadium | | | | | | |
| Vanadiferous residues | tonnes | 1 286 | ... | ... | ... | ... |
| Ores & concentrates | tonnes | ... | 483 | 1 379 | 1 116 | 894 |
| Pentoxide | tonnes | 2 142 | 2 981 | 57 | 3 | 267 |
| Metal | tonnes | 32 | 501 | 238 | 32 | 60 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 824 825 | 864 008 | 1 189 103 | 1 410 560 | 1 182 083 |
| Unwrought | tonnes | 233 322 | 236 971 | 244 081 | 261 216 | 46 505 |
| Unwrought alloys | tonnes | 910 | 4 767 | 2 649 | 13 872 | 35 653 |
| Scrap | tonnes | 50 156 | 60 893 | 42 424 | 42 534 | 44 890 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 5 657 | 13 267 | 5 178 | 3 991 | 14 504 |
| Metal | tonnes | 670 | 483 | 533 | 534 | 605 |

Note(s):-

(a) BGS estimates, based on known exports into certain countries

Bulgaria

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---------------------------|------------|------------|------------|------------|----------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | *3 500 000 | *3 500 000 | 3 710 186 | 3 333 000 | ... |
| Barytes | tonnes | 131 100 | 123 200 | 91 200 | 75 400 | 79 500 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 171 092 | 211 500 | 145 500 | 224 900 | 181 200 |
| Bismuth, mine | tonnes (metal content) | *40 | *40 | *40 | *40 | *40 |
| Cadmium | tonnes | 333 | 345 | 307 | 356 | 319 |
| Cement, finished | tonnes | 2 088 000 | 2 137 000 | 2 100 000 | 2 100 000 | 2 100 000 |
| Coal | | | | | | |
| Anthracite & bituminous | tonnes | 115 000 | 122 000 | 53 000 | 170 000 | ... |
| Brown coal & lignite | tonnes | 26 095 516 | 26 433 500 | 27 641 000 | 26 455 000 | (c) 26 200 000 |
| Copper, mine | tonnes (metal content) | 97 100 | 84 400 | 80 240 | 79 600 | 94 900 |
| Copper, smelter | tonnes | 134 700 | 167 000 | 199 300 | 215 800 | 225 000 |
| Copper, refined | tonnes | 34 500 | 40 700 | 45 900 | 55 300 | 60 000 |
| Feldspar | tonnes | 23 000 | *34 000 | *35 000 | *35 000 | *35 000 |
| Fluorspar | tonnes | 300 | — | — | — | — |
| Gold, mine | kilograms (metal content) | 1 700 | 2 612 | 2 270 | 2 431 | *2 400 |
| Gypsum | tonnes | 166 838 | 156 400 | 165 500 | 175 900 | 187 700 |
| Iron ore | tonnes | 324 800 | 373 000 | 466 100 | 82 700 | — |
| Pig iron | tonnes | 1 211 000 | 1 072 000 | 1 386 000 | 1 200 000 | 1 200 000 |
| Crude steel | tonnes | 1 972 000 | 1 860 000 | 1 950 000 | 2 106 000 | 1 940 000 |
| Ferro-alloys | | | | | | |
| Ferro-silicon | tonnes | *8 000 | *8 000 | *8 000 | *8 000 | *8 000 |
| Kaolin | tonnes | *140 000 | *150 000 | *120 000 | *190 000 | *200 000 |
| Lead, mine | tonnes (metal content) | 18 500 | 19 800 | 19 950 | 18 970 | 13 000 |
| Lead, refined | tonnes | 83 000 | 67 500 | 74 000 | 69 000 | 80 800 |
| Manganese ore | tonnes | 1 515 | 4 | 4 200 | 27 800 | 38 500 |
| Perlite | tonnes | 12 300 | 10 500 | 16 800 | 8 500 | 15 300 |
| Crude petroleum | tonnes | 33 888 | 33 000 | 27 900 | 33 100 | 30 000 |
| Natural gas | million m ³ | 21 | 11 | 11 | 333 | 573 |
| Salt | tonnes | 1 931 000 | 1 800 000 | 1 882 000 | 1 900 000 | 1 900 000 |
| Silver, mine | kilograms (metal content) | 56 806 | 60 000 | *60 000 | *60 000 | *60 000 |
| Sulphur and pyrites | | | | | | |
| Recovered (a) | tonnes (sulphur content) | 203 000 | 245 000 | 260 000 | 301 000 | 312 000 |
| Recovered (b) | tonnes (sulphur content) | 30 000 | 30 000 | 30 000 | 25 000 | 30 000 |
| Zinc, mine | tonnes (metal content) | 10 600 | 12 900 | 13 000 | 15 548 | 12 700 |
| Slab zinc | tonnes | 88 000 | 83 000 | 86 800 | 101 500 | 95 100 |

Note(s):-

(1) Bulgaria is believed to produce chromite, fluorspar, magnesite and platinum group metals

- (a) From metal sulphide processing
- (b) From petroleum refining and/or natural gas
- (c) Coal; all forms

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 123 942 | 227 464 | 214 135 | 384 420 | 160 032 |
| Aluminium and bauxite | | | | | | |
| Unwrought alloys | tonnes | 627 | 2 152 | 1 971 | 4 616 | 5 254 |
| Scrap | tonnes | 18 352 | 22 994 | 21 838 | 22 036 | 21 902 |
| Asbestos | tonnes | 36 | 9 | 0 | 83 | ... |
| Barytes | tonnes | 131 137 | 123 224 | 91 215 | 75 393 | 76 644 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 160 332 | 121 868 | 102 263 | 95 435 | 76 614 |
| Cadmium | | | | | | |
| Metal | tonnes | 374 | 337 | 344 | 378 | 316 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 397 914 | 435 202 | 602 632 | 392 414 | 338 505 |
| Portland cement | tonnes | 643 158 | 485 972 | 568 083 | 460 281 | 455 824 |
| Other cement | tonnes | 240 | 2 729 | 22 625 | ... | ... |

Bulgaria

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|---------|---------|---------|
| Copper | | | | | | |
| Ores & concentrates | tonnes | 96 065 | 83 032 | 72 861 | 78 563 | 124 717 |
| Matte & cement | tonnes | 1 291 | 4 233 | 4 356 | 6 718 | 5 750 |
| Unwrought | tonnes | 151 681 | 173 720 | 218 482 | 219 415 | 219 009 |
| Scrap | tonnes | 8 736 | 9 459 | 9 507 | 9 480 | 8 244 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 2 841 | 2 406 | 1 868 | 2 231 | 2 347 |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-alloys | tonnes | 4 225 | 5 088 | 8 045 | 5 646 | 3 072 |
| Ingots, blooms, billets | tonnes | 410 940 | 111 719 | 355 397 | 277 332 | 97 757 |
| Scrap | tonnes | 375 118 | 459 322 | 572 559 | 769 559 | 784 778 |
| Kaolin | tonnes | 115 257 | 113 538 | 124 396 | 114 399 | 124 899 |
| Lead | | | | | | |
| Unwrought | tonnes | 68 749 | 58 789 | 61 799 | 54 686 | 69 825 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 832 | ... | 6 402 | 42 122 | 53 559 |
| Molybdenum | | | | | | |
| Metal | tonnes | ... | 37 | 49 | 546 | 105 |
| Platinum metals | | | | | | |
| Waste & scrap (a) | kilograms | *28 500 | *35 800 | *17 500 | *24 000 | *31 400 |
| Salt | tonnes | 1 898 | 4 938 | 2 625 | 8 586 | 10 090 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 17 274 | 25 306 | 21 478 | 20 103 | 25 019 |
| Zinc | | | | | | |
| Unwrought (b) | tonnes | 73 362 | 70 967 | 74 801 | 89 287 | 82 902 |

Note(s):-

- (a) BGS estimates, based on known imports into certain countries
- (b) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 13 069 | 17 160 | 24 578 | 20 303 | 17 200 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 19 069 | 22 890 | 28 194 | 35 515 | 40 748 |
| Antimony | | | | | | |
| Metal | tonnes | 50 | 48 | 52 | 47 | ... |
| Asbestos | tonnes | 271 | 160 | 50 | 196 | ... |
| Bentonite and fuller's earth | tonnes | 550 | 653 | 511 | 1 089 | 1 600 |
| Cement | | | | | | |
| Cement clinkers | tonnes | ... | 3 088 | 3 815 | 23 048 | 180 254 |
| Portland cement | tonnes | 7 864 | 7 491 | 33 810 | 51 493 | 23 787 |
| Other cement | tonnes | ... | ... | ... | 920 | 1 128 |
| Coal | | | | | | |
| Anthracite | tonnes | 1 928 500 | 1 173 622 | 1 396 246 | 1 464 605 | 2 016 911 |
| Other coal | tonnes | 1 758 266 | 2 315 367 | 3 038 589 | 2 784 512 | 2 270 525 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 316 840 | 281 687 | 454 875 | 561 613 | 632 255 |
| Unwrought | tonnes | 15 655 | 8 392 | 3 880 | 8 599 | 18 613 |
| Scrap | tonnes | 919 | 1 919 | 2 722 | 2 935 | 5 094 |
| Diatomite | tonnes | 1 198 | 8 478 | 1 139 | 1 292 | 1 312 |
| Feldspar | tonnes | 22 072 | 21 852 | 23 367 | 30 805 | 34 723 |
| Fluorspar | tonnes | 22 601 | 1 296 | 2 143 | 1 882 | 1 210 |
| Graphite | tonnes | 223 | 210 | 492 | 420 | 319 |
| Gypsum | | | | | | |
| Crude | tonnes | 33 737 | 47 984 | 38 119 | 49 426 | 18 684 |
| Calcined | tonnes | 9 692 | 17 476 | 22 615 | 35 558 | 49 163 |
| Iodine | kilograms | 5 319 | 4 636 | 11 250 | 6 755 | 5 080 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Iron ore | | | | | | |
| Iron ore | tonnes | 1 359 466 | 1 302 809 | 1 850 563 | 1 570 605 | 1 050 925 |
| Burnt pyrites | tonnes | 2 666 | 1 307 | 128 640 | 357 898 | 437 710 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 21 281 | 16 304 | 45 935 | 14 228 | 19 624 |
| Ferro-manganese | tonnes | 4 707 | 2 047 | 5 152 | 5 116 | 5 540 |
| Other ferro-alloys | tonnes | 7 256 | 4 440 | 9 232 | 7 441 | 6 539 |
| Silicon metal | tonnes | ... | 137 | 232 | 663 | 585 |
| Ingots, blooms, billets | tonnes | 62 056 | 7 951 | 116 005 | 280 895 | 275 001 |
| Scrap | tonnes | 55 376 | 43 260 | 74 445 | 90 491 | 108 450 |
| Kaolin | tonnes | 26 805 | 28 486 | 36 360 | 75 425 | 76 231 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 83 051 | 52 368 | 64 751 | 74 163 | 83 398 |
| Unwrought | tonnes | 2 252 | 2 218 | 1 759 | 5 558 | 10 723 |
| Scrap | tonnes | 1 714 | 2 800 | 816 | 441 | 1 227 |
| Magnesite and magnesia | tonnes | 5 463 | 6 544 | 5 815 | 6 354 | 8 500 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 8 612 | 1 125 | 234 401 | 46 768 | 13 631 |
| Phosphates | tonnes | 393 280 | 490 935 | 550 013 | 515 889 | 543 637 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 25 284 | 11 724 | 3 453 | 4 725 | 7 794 |
| Salt | tonnes | 105 676 | 125 613 | 116 840 | 138 631 | 165 727 |
| Talc | tonnes | 455 | 404 | 465 | 487 | 599 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 535 | 653 | 2 979 | 407 | 1 287 |
| Oxides | tonnes | 2 646 | 2 448 | 3 156 | 3 332 | 3 959 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 124 895 | 120 409 | 149 957 | 167 098 | 149 735 |
| Unwrought (a) | tonnes | 2 299 | 3 049 | 4 146 | 4 285 | 1 450 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 1 490 | 1 413 | 1 375 | 1 149 | 1 589 |

Note(s):-

(a) Including alloys

Croatia

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------------------------|-----------|-----------|-----------|-----------|---------|
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 10 580 | 12 102 | 13 568 | 15 674 | 17 391 |
| Gypsum | tonnes | 130 861 | 145 000 | 166 340 | 193 263 | 196 133 |
| Crude steel | tonnes | 57 993 | 33 851 | 43 380 | 85 947 | 73 640 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 361 | — | — | — | — |
| Crude petroleum | tonnes | 1 120 797 | 1 108 434 | 1 052 121 | 1 037 787 | 980 486 |
| Natural gas | million m ³ | 2 009 | 2 122 | 2 190 | 2 198 | 2 283 |
| Salt | tonnes | 32 585 | 30 483 | 32 533 | 32 723 | 36 970 |
| Sulphur and pyrites | | | | | | |
| Recovered (a) | tonnes (sulphur content) | 7 000 | 7 069 | 7 471 | 9 000 | 9 000 |

Note(s):-

(a) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|---------|---------|---------|---------|
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 5 981 | 3 869 | 1 478 | 566 | 276 |
| Scrap | tonnes | 8 311 | 10 187 | 10 914 | 12 024 | 15 927 |
| Copper | | | | | | |
| Scrap | tonnes | 6 506 | 7 001 | 7 497 | 9 613 | 10 814 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 20 032 | 28 318 | ... | ... | ... |
| Iron, steel and ferro-alloys | | | | | | |
| Scrap | tonnes | 133 451 | 197 532 | 235 322 | 279 852 | 318 840 |
| Kaolin | tonnes | 2 620 | 5 319 | 4 362 | 351 | 15 |
| Lead | | | | | | |
| Scrap | tonnes | 809 | 749 | 750 | 853 | 794 |
| Crude petroleum | tonnes | 15 001 | 1 | ... | 20 000 | ... |
| Salt | tonnes | 1 609 | 4 242 | 5 530 | 9 226 | 5 688 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 6 386 | 7 150 | 7 505 | 8 505 | 8 028 |

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|------------|---------|-----------|-----------|---------|
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 76 243 | 42 464 | 71 335 | 48 302 | 112 007 |
| Unwrought | tonnes | (a) 32 087 | 32 229 | 21 289 | 47 437 | 56 509 |
| Unwrought alloys | tonnes | ... | 8 326 | 7 329 | 9 672 | 14 915 |
| Asbestos | tonnes | 2 666 | 3 274 | 1 958 | 3 251 | 2 429 |
| Barytes | tonnes | 111 | 1 803 | 1 053 | 1 878 | 715 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 10 094 | 14 571 | 1 238 | 2 181 | 1 897 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 908 | 287 | 341 | 459 | 537 |
| Metal | tonnes | 6 | 160 | 200 | 279 | 54 |
| Coal | | | | | | |
| Hard coal | tonnes | 642 574 | 281 298 | 1 034 849 | 1 218 407 | 957 899 |
| Lignite | tonnes | 84 520 | 34 807 | 69 679 | 79 921 | 77 959 |
| Briquettes | tonnes | 18 278 | 65 401 | 22 828 | 2 981 | 4 734 |
| Diatomite | tonnes | 1 232 | 928 | 809 | 703 | 495 |
| Feldspar | tonnes | 10 491 | 10 609 | 11 894 | 13 713 | 17 011 |
| Fluorspar | tonnes | 155 | 164 | 152 | 204 | 143 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Gold | | | | | | |
| Metal | kilograms | ... | 1 316 | 5 034 | 1 193 | 1 083 |
| Gypsum | | | | | | |
| Crude | tonnes | 25 633 | 28 326 | 35 732 | 14 974 | 41 665 |
| Calcined | tonnes | 20 046 | 29 147 | 33 419 | 37 499 | 33 316 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 12 560 | 14 124 | 14 821 | 15 175 | 15 270 |
| Ferro-alloys | tonnes | 1 706 | 2 265 | 2 421 | 2 980 | 2 893 |
| Silicon metal | tonnes | 438 | 391 | 350 | 510 | 261 |
| Ingots, blooms, billets | tonnes | 22 673 | 13 527 | 18 523 | 3 562 | 12 421 |
| Scrap | tonnes | 7 569 | 3 937 | 5 361 | 7 156 | 18 407 |
| Kaolin | tonnes | 6 357 | 6 046 | 6 303 | 6 472 | 7 941 |
| Lead | | | | | | |
| Unwrought | tonnes | 841 | 1 635 | 988 | 1 460 | 1 492 |
| Magnesite and magnesia | tonnes | 764 | 949 | 1 006 | 1 479 | 1 647 |
| Manganese | | | | | | |
| Metal | tonnes | 58 | 57 | 50 | 93 | 93 |
| Crude petroleum | tonnes | 4 012 709 | 4 009 452 | 3 776 305 | 4 197 554 | 3 855 070 |
| Phosphates | tonnes | 173 144 | 177 728 | 181 534 | 245 224 | 272 005 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 2 989 | 604 | ... | 839 | 12 320 |
| Potash | | | | | | |
| Chloride | tonnes | 144 977 | 124 881 | 146 692 | 168 015 | 131 567 |
| Salt | tonnes | 84 219 | 139 989 | 164 046 | 165 277 | 226 931 |
| Silver | | | | | | |
| Metal | kilograms | 4 573 | 4 000 | *3 500 | 3 340 | 3 837 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 53 025 | 39 190 | 46 017 | 63 606 | 70 897 |
| Sulphur, sublimed & precipitated | tonnes | 299 | 1 738 | 3 611 | 4 817 | 1 923 |
| Talc | tonnes | 1 397 | 1 587 | 1 531 | 1 726 | 1 378 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 114 | 89 | 95 | 67 | 62 |
| Titanium | | | | | | |
| Oxides | tonnes | 2 142 | 2 081 | 2 327 | 2 401 | 2 561 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 2 816 | 3 006 | 5 324 | 3 516 | 3 329 |

Note(s):-

(a) Including alloys

Cyprus

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|------------------------|-----------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Crushed rock | tonnes | 9 300 000 | 10 500 000 | 10 700 000 | 11 600 000 | 12 064 112 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 127 000 | 128 400 | 144 859 | 155 717 | 172 366 |
| Cement clinker | tonnes | ... | 212 459 | 56 034 | 68 865 | 37 891 |
| Cement, finished | tonnes | 1 368 800 | 1 438 160 | 1 636 879 | 1 688 917 | 1 834 645 |
| Copper, mine | tonnes (metal content) | 4 600 | 3 700 | 2 500 | — | — |
| Copper, refined | tonnes | 4 604 | 3 695 | 2 552 | 1 344 | — |
| Gypsum | tonnes | 250 000 | 295 000 | 300 000 | 255 000 | 215 500 |

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|---------|---------|---------|---------|
| Aluminium and bauxite | | | | | | |
| Unwrought | tonnes | 6 236 | 1 028 | 381 | 316 | 62 |
| Scrap | tonnes | 5 003 | 2 813 | 2 966 | 3 699 | 4 578 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 80 714 | 81 388 | 71 460 | 81 596 | 85 724 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 96 709 | 245 656 | 200 461 | 31 215 | 37 891 |
| Portland cement | tonnes | 316 758 | 201 542 | 196 173 | 146 669 | 219 460 |
| Copper | | | | | | |
| Unwrought | tonnes | 5 015 | 3 697 | 2 610 | 1 322 | ... |
| Scrap | tonnes | 1 307 | 2 808 | 1 266 | 2 221 | 2 548 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 209 179 | 169 213 | 184 389 | 215 297 | 73 741 |
| Iron, steel and ferro-alloys | | | | | | |
| Scrap | tonnes | 26 839 | 38 154 | 41 926 | 46 316 | 55 240 |
| Lead | | | | | | |
| Scrap | tonnes | 1 965 | 1 874 | 2 073 | 1 711 | 1 212 |
| Salt | tonnes | 236 | 1 729 | 508 | 559 | 635 |

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|---------|------------|--------|
| Primary aggregates | tonnes | 3 104 | 1 870 | 3 201 | (a) *8 400 | 5 921 |
| Aluminium and bauxite | | | | | | |
| Unwrought alloys | tonnes | 6 749 | 7 629 | 7 697 | 10 858 | 9 898 |
| Bentonite and fuller's earth | tonnes | 11 060 | 24 260 | 20 519 | 18 052 | 3 057 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 5 550 | 17 144 | 74 627 | 28 622 | 43 375 |
| Portland cement | tonnes | 1 636 | 2 926 | 2 496 | 2 092 | 2 339 |
| Coal | tonnes | 85 931 | 71 734 | 21 | ... | 3 |
| Fluorspar | tonnes | 496 | 7 607 | 8 901 | 5 | ... |
| Gold | | | | | | |
| Metal | kilograms | 1 223 | 938 | 4 561 | 313 | 359 |
| Iodine | kilograms | 17 000 | 29 894 | 8 685 | 226 | 67 |
| Kaolin | tonnes | 369 | 380 | 487 | 299 | 154 |
| Lead | | | | | | |
| Unwrought | tonnes | 2 359 | 2 367 | 918 | 317 | 172 |
| Crude petroleum | tonnes | 1 048 256 | 1 143 649 | 838 280 | 417 475 | ... |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 110 | 40 | 35 | 78 | 97 |
| Salt | tonnes | 11 616 | 10 530 | 14 053 | 8 650 | 13 795 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|-----------|-------|-------|-------|-------|-------|
| Silver Metal | kilograms | 9 624 | 8 614 | 8 461 | 5 135 | 5 675 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 1 222 | 939 | 1 370 | 1 226 | 1 356 |
| Talc | tonnes | 181 | 202 | 255 | 242 | 386 |
| Titanium Oxides | tonnes | 859 | 1 032 | 1 172 | 1 172 | 1 286 |

Note(s):-

(a) BGS estimates, based on known exports from certain countries

Czech Republic

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------------------------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 11 916 192 | 12 248 595 | 15 267 650 | 15 703 358 | 15 672 765 |
| Crushed rock | tonnes | 20 301 407 | 23 643 644 | 27 934 515 | 28 846 776 | 30 221 600 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 224 000 | 174 000 | 199 000 | 201 000 | 186 000 |
| Cement clinker | tonnes | 2 441 353 | 2 102 275 | ... | ... | ... |
| Cement, finished | tonnes | 3 590 689 | 3 249 155 | 3 502 103 | 3 828 677 | 3 978 056 |
| Coal | | | | | | |
| Bituminous | tonnes | 14 808 000 | 14 097 000 | 13 382 000 | 14 648 000 | 12 778 000 |
| Lignite | tonnes | 507 000 | 501 000 | 470 000 | 450 000 | 467 000 |
| Brown coal | tonnes | 51 036 000 | 48 834 000 | 49 920 000 | 47 840 000 | 48 658 000 |
| Diatomite | tonnes | 5 200 | 5 600 | 4 800 | 5 100 | 4 100 |
| Feldspar | tonnes | 373 000 | 401 000 | 421 000 | 488 000 | 472 000 |
| Graphite | tonnes | 17 000 | 16 000 | 9 000 | 5 000 | 3 000 |
| Gypsum | tonnes | 24 000 | 108 000 | 104 000 | 71 000 | 25 000 |
| Pig iron | tonnes | 4 670 700 | 4 839 880 | 5 207 000 | 5 385 000 | 4 627 000 |
| Crude steel | tonnes | 6 315 900 | 6 511 970 | 6 783 000 | 7 033 000 | 6 189 000 |
| Ferro-alloys | | | | | | |
| Ferro-vanadium | tonnes | *2 500 | *3 000 | *3 000 | *3 500 | *3 500 |
| Kaolin (a) | tonnes | 561 600 | 562 300 | 582 100 | 639 100 | 639 300 |
| Lead, refined | tonnes | 30 500 | *30 500 | *30 000 | *30 000 | 26 000 |
| Crude petroleum | tonnes | 178 000 | 253 000 | 310 000 | 299 000 | 306 000 |
| Natural gas | million m ³ | 101 | 91 | 131 | 175 | 356 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | 40 000 | 40 000 | 45 000 | 60 000 | 65 000 |
| Uranium, mine | tonnes (metal content) | 490 | 477 | 458 | 435 | 420 |

Note(s):-

- (a) Beneficiated
- (b) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 555 449 | 417 503 | 464 898 | 344 850 | 468 540 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 38 362 | 34 611 | 43 045 | 48 698 | 48 885 |
| Scrap | tonnes | 30 520 | 33 636 | 33 410 | 43 223 | 39 297 |
| Barytes | tonnes | 535 | 986 | 895 | 616 | 557 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 46 823 | 32 002 | 17 439 | 62 012 | 85 093 |
| Cadmium | | | | | | |
| Metal | tonnes | 87 | 0 | 0 | 0 | ... |
| Cement | | | | | | |
| Cement clinkers | tonnes | 213 960 | 77 171 | 44 410 | 91 626 | 29 169 |
| Portland cement | tonnes | 618 868 | 350 341 | 506 588 | 576 531 | 526 784 |
| Other cement | tonnes | 33 244 | 38 341 | 11 476 | 3 216 | 34 046 |
| Chromium | | | | | | |
| Metal | tonnes | 1 | 88 | 338 | 364 | 109 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 5 712 522 | 5 680 003 | 5 668 451 | 5 706 798 | 5 260 739 |
| Lignite | tonnes | 2 977 065 | 1 770 888 | 1 082 961 | 1 072 275 | 1 324 025 |
| Briquettes | tonnes | 168 874 | 188 383 | 191 650 | 160 823 | 148 966 |
| Copper | | | | | | |
| Unwrought | tonnes | 1 909 | 1 712 | 978 | 7 834 | 4 251 |
| Scrap | tonnes | 39 516 | 38 121 | 36 874 | 53 086 | 53 707 |
| Diatomite | tonnes | 5 493 | 5 288 | 5 083 | 4 734 | 4 247 |
| Feldspar | tonnes | 131 699 | 122 206 | 133 868 | 143 941 | 160 469 |
| Fluorspar | tonnes | 9 442 | 8 131 | 23 471 | 10 073 | 8 677 |
| Gold | | | | | | |
| Metal | kilograms | 4 431 | 5 468 | 5 113 | 12 247 | 1 100 |
| Waste & scrap | kilograms | 1 373 | 2 453 | 1 349 | 31 | 600 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-------------|-----------|-------------|------------|-------------|
| Graphite | tonnes | 2 621 | 3 487 | 4 058 | 3 924 | 3 489 |
| Gypsum | | | | | | |
| Crude | tonnes | 39 414 | 87 247 | 92 133 | 90 750 | 33 307 |
| Calcined | tonnes | 6 674 | 3 967 | 4 718 | 5 563 | 4 272 |
| Iodine | kilograms | ... | 267 | 330 | 537 | 1 000 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 25 352 | 28 844 | 50 125 | 55 687 | 15 526 |
| Ferro-chrome | tonnes | 2 300 | 287 | 77 | 1 016 | 524 |
| Ferro-vanadium | tonnes | 2 195 | 2 949 | 3 012 | 3 417 | 2 613 |
| Other ferro-alloys | tonnes | 2 412 | 4 445 | 6 630 | 12 098 | 19 067 |
| Silicon metal | tonnes | 816 | 859 | 778 | 4 488 | 512 |
| Ingots, blooms, billets | tonnes | 250 740 | 287 557 | 249 522 | 267 912 | 251 513 |
| Scrap | tonnes | 1 000 515 | 1 057 822 | 1 178 514 | 1 930 343 | 1 351 676 |
| Kaolin | tonnes | 455 089 | 443 674 | 441 545 | 483 636 | 268 850 |
| Lead | | | | | | |
| Unwrought | tonnes | 6 786 | 5 724 | 7 112 | 7 230 | 8 665 |
| Scrap | tonnes | 3 750 | 3 346 | 2 926 | 3 059 | 4 948 |
| Magnesite and magnesia | tonnes | 702 | 59 | 1 924 | 3 790 | 6 273 |
| Mercury | kilograms | 12 000 | 16 542 | 9 970 | 22 172 | 8 200 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 42 | 211 | 186 | 967 | 57 |
| Scrap | tonnes | 237 | 219 | 417 | 525 | 843 |
| Oxides | tonnes | 126 | 159 | 358 | 296 | 658 |
| Crude petroleum | tonnes | 118 714 | 129 275 | 155 258 | 64 315 | 57 522 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | ... | 79 408 | (c) *22 000 | (c) *4 600 | (c) *20 600 |
| Waste & scrap | kilograms | (c) *86 900 | 2 818 | 5 316 | 4 158 | 4 500 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 253 | 541 | 808 | 2 416 | 3 463 |
| Salt | tonnes | 7 135 | 7 768 | 10 490 | 12 986 | 13 833 |
| Silver | | | | | | |
| Metal | kilograms | ... | 140 057 | 171 398 | 291 519 | 28 900 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 2 398 | 7 410 | 10 087 | 9 787 | 9 294 |
| Sulphur, sublimed & precipitated | tonnes | 3 069 | 118 | 134 | 1 581 | 503 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 106 | 40 | 55 | 84 | 68 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 38 | 20 | 66 | 191 | 381 |
| Titanium | | | | | | |
| Metal | tonnes | 59 | 82 | 239 | 191 | 358 |
| Oxides | tonnes | 26 626 | 34 258 | 33 354 | 37 673 | 40 707 |
| Tungsten | | | | | | |
| Metal | tonnes | 413 | 251 | 108 | 133 | 185 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 1 619 | 1 253 | 1 670 | 5 659 | 7 865 |
| Scrap | tonnes | 2 267 | 2 325 | 2 247 | 2 976 | 2 498 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite
- (c) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|--------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 261 199 | 237 868 | 206 018 | 509 217 | 574 008 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 15 212 | 15 391 | 13 871 | 20 922 | 24 315 |
| Alumina | tonnes | 24 771 | 22 117 | 23 142 | 26 898 | 28 458 |
| Alumina hydrate | tonnes | 9 960 | 11 981 | 12 767 | 17 215 | 10 898 |
| Unwrought | tonnes | 43 792 | 64 108 | 66 747 | 75 289 | 69 977 |
| Unwrought alloys | tonnes | 76 779 | 78 849 | 82 823 | 90 688 | 96 702 |
| Scrap | tonnes | 26 013 | 23 986 | 24 336 | 28 542 | 34 226 |

Czech Republic

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|------------|
| Antimony | | | | | | |
| Metal | tonnes | 53 | 76 | 45 | 14 | 72 |
| Oxide | tonnes | 548 | 626 | 365 | 557 | 588 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 18 | 24 | 20 | 8 | 9 |
| Asbestos | tonnes | 2 322 | 785 | 1 464 | 2 891 | 0 |
| Barytes | tonnes | 10 594 | 10 754 | 8 448 | 8 782 | 8 552 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 15 410 | 12 623 | 11 795 | 19 852 | 14 776 |
| Fuller's earth | tonnes | 595 | 547 | 702 | 564 | 1 290 |
| Bismuth | | | | | | |
| Metal | tonnes | 26 | 42 | 56 | 64 | 50 |
| Cadmium | | | | | | |
| Sulphide | tonnes | 36 | 11 | 20 | 19 | 21 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 147 | 6 792 | 76 152 | 167 711 | 95 108 |
| Portland cement | tonnes | 1 278 439 | 748 672 | 1 044 234 | 1 105 823 | 1 027 011 |
| Other cement | tonnes | 104 981 | 83 286 | 28 197 | 24 799 | 38 434 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 15 054 | 11 655 | 10 674 | 11 365 | 12 440 |
| Metal | tonnes | 12 | 14 | 66 | 60 | 149 |
| Coal | | | | | | |
| Anthracite | tonnes | 6 258 | 19 893 | 15 177 | 52 247 | 43 713 |
| Other coal | tonnes | 1 196 643 | 1 199 062 | 1 265 727 | 1 642 568 | 1 192 214 |
| Cobalt | | | | | | |
| Metal | tonnes | 41 | 35 | 54 | 81 | 75 |
| Oxides | tonnes | 37 | 32 | 25 | 33 | 18 |
| Copper | | | | | | |
| Unwrought | tonnes | 18 434 | 12 110 | 6 326 | 5 644 | 4 551 |
| Scrap | tonnes | 2 759 | 1 656 | 2 080 | 5 601 | 6 114 |
| Diamond | | | | | | |
| Unsorted | carats | £156 000 | £128 000 | £187 000 | £3 000 | £300 |
| Gem, rough | carats | £141 000 | £158 000 | ... | ... | £18 000 |
| Gem, cut | carats | £226 000 | £382 000 | £802 000 | £626 000 | £1 046 000 |
| Industrial | carats | £430 000 | £568 000 | £360 000 | £163 000 | £391 000 |
| Dust | carats | £943 000 | £886 000 | £858 000 | £776 000 | £956 000 |
| Diatomite | tonnes | 1 695 | 1 647 | 1 562 | 1 969 | 2 263 |
| Feldspar | tonnes | 7 226 | 7 975 | 7 388 | 8 785 | 13 315 |
| Fluorspar | tonnes | 27 785 | 18 182 | 16 628 | 28 408 | 24 009 |
| Gold | | | | | | |
| Metal | kilograms | 1 402 | 1 288 | 1 596 | 1 957 | 769 |
| Waste & scrap | kilograms | 392 | 175 | 338 | 1 911 | 13 000 |
| Graphite | tonnes | 1 518 | 1 476 | 2 765 | 3 663 | 4 787 |
| Gypsum | | | | | | |
| Crude | tonnes | 9 523 | 14 790 | 20 266 | 29 328 | 19 253 |
| Calcined | tonnes | 23 410 | 23 899 | 32 810 | 43 894 | 37 637 |
| Iodine | kilograms | 24 000 | 18 819 | 29 637 | 31 428 | 28 400 |
| Iron ore | tonnes | 6 891 369 | 6 811 707 | 8 221 566 | 7 636 968 | 6 576 885 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 91 906 | 90 568 | 72 151 | 88 014 | 88 549 |
| Sponge & powder | tonnes | 670 | 5 739 | 21 478 | 5 661 | 6 130 |
| Ferro-chrome | tonnes | 39 975 | 43 181 | 13 193 | 16 248 | 16 772 |
| Ferro-manganese | tonnes | 20 716 | 21 055 | 24 154 | 27 051 | 30 921 |
| Ferro-silico-manganese | tonnes | 25 660 | 26 130 | 55 989 | 59 361 | 53 258 |
| Ferro-molybdenum | tonnes | 1 157 | 1 054 | 1 346 | 1 710 | 1 744 |
| Ferro-silicon | tonnes | 20 640 | 20 570 | 26 721 | 34 812 | 34 114 |
| Ferro-vanadium | tonnes | 278 | 250 | 225 | 395 | 564 |
| Other ferro-alloys | tonnes | 8 092 | 7 851 | 8 745 | 9 817 | 10 959 |
| Silicon metal | tonnes | 2 832 | 2 713 | 4 095 | 8 401 | 2 589 |
| Ingots, blooms, billets | tonnes | 272 751 | 263 839 | 268 231 | 352 672 | 484 450 |
| Scrap | tonnes | 347 858 | 372 348 | 506 094 | 593 330 | 392 135 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|------------|------------|------------|------------|-----------|
| Kaolin | tonnes | 19 514 | 12 791 | 15 466 | 14 034 | 16 895 |
| Lead | | | | | | |
| Unwrought | tonnes | 58 777 | 56 941 | 55 699 | 73 472 | 418 804 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 4 362 | 3 516 | 5 528 | 5 973 | 6 860 |
| Magnesia | tonnes | 33 375 | 32 090 | 34 377 | 42 226 | 43 277 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 7 314 | 11 507 | 11 966 | 11 663 | 13 820 |
| Metal | tonnes | 206 | 376 | 386 | 593 | 619 |
| Mercury | kilograms | 1 000 | 1 875 | 2 531 | 7 300 | 1 100 |
| Mica | tonnes | 890 | 926 | 764 | 879 | 819 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | ... | ... | ... | ... | 189 |
| Metal | tonnes | 45 | 29 | 42 | 66 | 89 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 2 231 | 1 825 | 2 158 | 2 574 | 2 520 |
| Oxides | tonnes | 177 | 236 | 465 | 712 | 785 |
| Crude petroleum | tonnes | 6 004 685 | 5 548 002 | 7 380 375 | 6 530 733 | 7 674 771 |
| Phosphates | tonnes | 48 539 | 27 955 | 24 299 | 24 282 | 22 633 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | ... | 1 147 | 5 249 | ... | 1 289 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 92 242 | 83 492 | 78 801 | 111 694 | 101 506 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | ... | 212 | 177 | 92 | 198 |
| Salt | tonnes | 602 712 | 622 455 | 681 134 | 909 966 | 891 667 |
| Sillimanite | tonnes | 3 785 | 2 673 | 3 480 | 3 779 | 3 733 |
| Silver | | | | | | |
| Metal | kilograms | ... | 173 805 | 238 756 | 422 971 | 102 100 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 56 621 | 51 922 | 52 784 | 34 787 | 16 983 |
| Sulphur, sublimed & precipitated | tonnes | 45 665 | 39 772 | 49 164 | 70 159 | 89 595 |
| Talc | tonnes | 9 082 | 9 299 | 10 278 | 9 426 | 9 986 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 147 | 128 | 168 | 261 | 141 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 592 | 531 | 635 | 550 | 634 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 78 515 | 60 976 | 74 709 | 53 570 | 80 407 |
| Metal | tonnes | 111 | 372 | 620 | 800 | 1 143 |
| Oxides | tonnes | 4 394 | 4 307 | 5 462 | 6 773 | 8 008 |
| Tungsten | | | | | | |
| Metal | tonnes | 136 | 65 | 73 | 116 | 173 |
| Vanadium | | | | | | |
| Pentoxide | tonnes | 5 172 | 4 162 | 4 898 | 5 429 | 3 831 |
| Zinc | | | | | | |
| Unwrought | tonnes | (a) 27 142 | (a) 26 929 | (a) 28 748 | (a) 34 205 | 28 263 |
| Unwrought alloys | tonnes | ... | ... | ... | ... | 8 039 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 3 480 | 2 911 | 2 105 | 1 605 | 655 |
| Metal | tonnes | 486 | 580 | 348 | 32 | 60 |

Note(s):-

(a) Including alloys

Denmark

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------------------------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 55 200 000 | 53 300 000 | 50 800 000 | 57 300 000 | 69 500 000 |
| Crushed rock | tonnes | 330 000 | 390 000 | 380 000 | 372 000 | 378 000 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 12 166 | 14 539 | 16 303 | 18 352 | 18 515 |
| Cement clinker | tonnes | 102 571 | 152 636 | 61 909 | 52 758 | 42 691 |
| Cement, finished | tonnes | 2 575 512 | 2 544 868 | 2 580 427 | 2 892 831 | 2 880 554 |
| Diatomite | | | | | | |
| Moler (a) | tonnes | 192 000 | 211 000 | 221 000 | 188 000 | 209 000 |
| Crude steel | tonnes | 746 000 | 392 000 | — | — | — |
| Crude petroleum | tonnes | 17 378 000 | 18 494 000 | 18 341 000 | 19 446 000 | 18 822 000 |
| Natural gas | million m ³ | 7 930 | 7 947 | 7 555 | 8 946 | 9 908 |
| Salt | tonnes | 587 000 | *590 000 | *600 000 | *600 000 | *600 000 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | 3 981 | 4 386 | 4 751 | 4 660 | 4 223 |

Note(s):-

- (1) Denmark is believed to produce kaolin
- (2) In addition to the countries producing sillimanite minerals, synthetic mullite is known to be produced in Denmark

- (a) Moler is an impure diatomite containing a large proportion of clay
- (b) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 1 112 789 | 880 032 | 736 820 | 795 330 | 787 389 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 3 481 | 4 520 | 4 556 | ... | 3 579 |
| Unwrought alloys | tonnes | 26 092 | 23 363 | 17 538 | 14 019 | 23 509 |
| Scrap | tonnes | 48 753 | 45 342 | 36 738 | 55 407 | 70 828 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 10 911 | 14 601 | 16 821 | 17 279 | 17 066 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 101 949 | 97 886 | 65 962 | 85 967 | 54 542 |
| Portland cement | tonnes | 1 220 484 | 1 259 988 | 1 164 923 | 1 127 638 | 1 235 477 |
| Other cement | tonnes | 17 458 | 12 697 | 11 947 | 13 535 | 13 118 |
| Chromium | | | | | | |
| Metal | tonnes | 964 | 496 | 521 | 661 | 703 |
| Coal | | | | | | |
| Hard coal | tonnes | 100 160 | 97 862 | 6 665 | 7 380 | 86 739 |
| Copper | | | | | | |
| Scrap | tonnes | 39 979 | 37 058 | 39 487 | 38 573 | 27 227 |
| Diatomite | tonnes | *80 000 | *90 000 | *90 000 | *90 000 | *90 000 |
| Gold | | | | | | |
| Metal | kilograms | 854 | 4 979 | 894 | ... | ... |
| Waste & scrap | kilograms | 7 789 | 807 | 343 | 1 | 120 |
| Gypsum | | | | | | |
| Crude | tonnes | 86 764 | 110 317 | 83 754 | 81 318 | 111 720 |
| Calcined | tonnes | 141 866 | 155 843 | 65 842 | 13 837 | 25 474 |
| Iron, steel and ferro-alloys | | | | | | |
| Ingots, blooms, billets | tonnes | 59 258 | 21 432 | 8 119 | 16 223 | 1 203 |
| Scrap | tonnes | 770 311 | 1 058 048 | 1 310 175 | 1 564 469 | 1 402 982 |
| Kaolin | tonnes | 1 050 | 688 | 583 | 461 | 637 |
| Lead | | | | | | |
| Unwrought | tonnes | 3 090 | 3 048 | 3 011 | 1 930 | 1 312 |
| Scrap | tonnes | 1 864 | 1 338 | 1 885 | 1 805 | 3 067 |
| Mercury | kilograms | 865 | 3 642 | 10 554 | 27 458 | 1 932 |
| Nickel | | | | | | |
| Scrap | tonnes | 280 | 190 | 593 | 777 | 676 |
| Crude petroleum | tonnes | 11 645 846 | 13 073 624 | 13 015 898 | 14 324 704 | 13 567 566 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 751 | 115 | 208 | ... | 1 435 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------------------|-----------|---------|---------|---------|---------|---------|
| Salt | tonnes | 327 344 | 340 177 | 376 794 | 350 587 | 355 887 |
| Silver Metal | kilograms | 17 229 | 13 532 | ... | ... | ... |
| Sulphur and pyrites Sulphur | tonnes | 1 044 | 1 182 | 1 598 | 2 608 | 332 |
| Tin Scrap | tonnes | 94 | 90 | 110 | 178 | 68 |
| Titanium Metal | tonnes | 170 | 120 | 185 | 166 | 184 |
| Oxides | tonnes | 1 128 | 1 000 | 578 | 1 304 | 1 136 |
| Tungsten Metal | tonnes | 10 | 37 | 13 | 26 | 5 |
| Vanadium Vanadium-titanium pig iron | tonnes | 134 | 193 | ... | ... | ... |
| Zinc Scrap | tonnes | 7 178 | 9 263 | 5 543 | 2 336 | 3 538 |

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|-------------|------------|------------|
| Primary aggregates | tonnes | 2 124 031 | 2 299 752 | 2 632 665 | 2 949 549 | 2 804 325 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 20 077 | 6 140 | 11 297 | 13 801 | 9 148 |
| Alumina | tonnes | 18 897 | 20 228 | 17 896 | 23 666 | 21 979 |
| Unwrought (a) | tonnes | 48 723 | 61 538 | 65 386 | 75 233 | 70 617 |
| Scrap | tonnes | 163 573 | 52 460 | 41 373 | 39 949 | 63 678 |
| Barytes | tonnes | 46 013 | 53 153 | 39 341 | 36 133 | 28 788 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 40 261 | 43 666 | 46 516 | 37 253 | 47 386 |
| Fuller's earth | tonnes | 183 | 41 | 40 | 107 | 137 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 10 | 4 033 | 23 222 | 22 506 | 31 634 |
| Portland cement | tonnes | 238 654 | 274 440 | 185 757 | 187 982 | 230 842 |
| Other cement | tonnes | 33 903 | 29 067 | 30 501 | 33 913 | 36 753 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 512 | 1 496 | 920 | 614 | 53 |
| Metal | tonnes | 19 | 63 | 106 | 90 | 53 |
| Coal | | | | | | |
| Anthracite | tonnes | 81 874 | 120 888 | 92 434 | 77 502 | 52 143 |
| Other coal | tonnes | 6 916 611 | 6 087 316 | 9 126 099 | 7 487 269 | 5 881 938 |
| Copper | | | | | | |
| Unwrought | tonnes | 2 600 | 2 560 | 2 324 | 2 065 | 1 702 |
| Scrap | tonnes | 12 798 | 12 564 | 18 332 | 16 446 | 13 827 |
| Diamond | | | | | | |
| Gem, cut | carats | £4 302 000 | £4 006 000 | £10 290 000 | £9 319 000 | £6 506 000 |
| Diatomite | tonnes | 5 728 | 7 175 | 6 744 | 5 001 | 6 561 |
| Feldspar | tonnes | 5 753 | 4 698 | 3 904 | 3 878 | 3 868 |
| Fluorspar | tonnes | 1 238 | 6 971 | 12 406 | 16 005 | 15 124 |
| Gold | | | | | | |
| Metal | kilograms | 911 | 796 | ... | ... | 2 075 |
| Waste & scrap | kilograms | 842 | 62 | 57 | 46 | 72 |
| Graphite | tonnes | 707 | 355 | 567 | 478 | 288 |
| Gypsum | | | | | | |
| Crude | tonnes | 256 834 | 223 666 | 282 006 | 283 604 | 317 736 |
| Calcined | tonnes | 8 952 | 34 509 | 36 882 | 38 650 | 45 691 |
| Iodine | kilograms | 24 614 | 19 000 | 21 037 | 9 080 | 13 249 |
| Iron ore | | | | | | |
| Burnt pyrites | tonnes | 47 038 | 60 659 | 52 806 | 81 071 | 85 975 |

Denmark

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 112 108 | 59 866 | 5 678 | 14 844 | 12 720 |
| Sponge & powder | tonnes | 1 943 | 14 155 | 6 471 | 103 479 | 29 188 |
| Ferro-manganese | tonnes | 3 497 | 1 674 | 16 | 38 | 161 |
| Ferro-silico-manganese | tonnes | 6 079 | 2 071 | ... | ... | 818 |
| Ferro-silicon | tonnes | 2 479 | 337 | 2 495 | 3 564 | 2 548 |
| Other ferro-alloys | tonnes | 13 822 | 784 | 459 | 712 | 366 |
| Silicon metal | tonnes | 1 686 | 2 179 | 1 521 | 1 061 | 659 |
| Ingots, blooms, billets | tonnes | 11 604 | 75 117 | 588 317 | 598 552 | 551 407 |
| Scrap | tonnes | 326 574 | 325 841 | 237 035 | 250 551 | 313 558 |
| Kaolin | tonnes | 19 369 | 34 441 | 20 987 | 13 056 | 14 117 |
| Lead | | | | | | |
| Unwrought | tonnes | 3 447 | 2 073 | 816 | 2 072 | 2 135 |
| Scrap | tonnes | 1 535 | 2 489 | 2 237 | 2 366 | 2 288 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 1 204 | 1 085 | 2 499 | 1 984 | 2 002 |
| Magnesia | tonnes | 4 770 | 3 731 | 2 297 | 2 575 | 4 560 |
| Manganese | | | | | | |
| Metal | tonnes | 76 | 115 | 152 | 164 | 157 |
| Mercury | kilograms | 1 276 | 796 | 260 | 403 | 2 901 |
| Mica | tonnes | 241 | 408 | 305 | 369 | 413 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 202 | 114 | 96 | 112 | 97 |
| Crude petroleum | tonnes | 2 853 538 | 3 193 530 | 3 517 270 | 3 725 978 | 2 666 384 |
| Phosphates | tonnes | 44 643 | 57 813 | 80 114 | 30 425 | 1 311 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 381 | 530 | ... | 1 324 | 2 076 |
| Potash | | | | | | |
| Sulphate | tonnes | 11 689 | 7 028 | 14 654 | 18 006 | 2 683 |
| Chloride | tonnes | 135 815 | 146 234 | 166 236 | 119 153 | 38 706 |
| Other potassic fertilisers | tonnes | 12 535 | 13 373 | 11 254 | 13 099 | 29 605 |
| Rare earths | | | | | | |
| Other rare earth compounds | tonnes | ... | ... | ... | ... | 16 |
| Salt | tonnes | 255 671 | 317 692 | 376 122 | 440 020 | 436 794 |
| Sillimanite | tonnes | 3 518 | 2 726 | 3 414 | 2 274 | 2 909 |
| Silver | | | | | | |
| Metal | kilograms | 19 137 | 13 512 | *7 000 | ... | ... |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 9 358 | 8 616 | 8 210 | 7 883 | 7 066 |
| Talc | tonnes | 13 156 | 16 577 | 14 407 | 14 085 | 14 103 |
| Titanium | | | | | | |
| Metal | tonnes | 891 | 737 | 745 | 778 | 770 |
| Oxides | tonnes | 20 799 | 23 967 | 21 022 | 22 269 | 23 156 |
| Tungsten | | | | | | |
| Metal | tonnes | 5 | 15 | 5 | 103 | 307 |
| Zinc | | | | | | |
| Unwrought | tonnes | 10 537 | 11 031 | 10 761 | 10 813 | 9 855 |
| Unwrought alloys | tonnes | 5 070 | 3 030 | 1 647 | 1 548 | 1 457 |

Note(s):-

(a) Including alloys

Estonia

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 2 300 000 | 1 650 400 | 1 973 740 | 2 341 620 | 3 459 760 |
| Crushed rock | tonnes | 1 800 000 | 4 571 100 | 4 082 700 | 5 426 600 | 6 760 700 |
| Cement, finished | tonnes | 404 600 | 465 900 | 506 200 | 614 600 | 726 000 |
| Lead, refined | tonnes | — | — | — | 3 000 | *7 000 |

Note(s):-

(1) Small amounts of steel are believed to be produced in Estonia

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|----------|----------|----------|----------|
| Primary aggregates | tonnes | 282 172 | 376 987 | 469 343 | 487 863 | 522 792 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 3 744 | 6 095 | 11 986 | 5 479 | 2 414 |
| Scrap | tonnes | 9 994 | 9 108 | 9 712 | 8 062 | 10 686 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 277 012 | 163 887 | 157 353 | 113 105 | 97 442 |
| Portland cement | tonnes | 183 156 | 176 923 | 172 223 | 209 168 | 225 729 |
| Chromium | | | | | | |
| Metal | tonnes | 200 | 12 | 148 | ... | ... |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 33 648 | 37 954 | 5 875 | ... | ... |
| Cobalt | | | | | | |
| Metal | tonnes | 49 | — | 143 | 12 | ... |
| Copper | | | | | | |
| Scrap | tonnes | 7 981 | 7 285 | 6 857 | 6 479 | 6 660 |
| Gold | | | | | | |
| Waste & scrap | kilograms | 8 044 | 9 895 | 8 812 | ... | 3 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron (c) | tonnes | *700 | *500 | ... | ... | ... |
| Ferro-chrome | tonnes | 2 283 | — | 5 695 | 45 | ... |
| Other ferro-alloys | tonnes | 4 269 | 10 270 | 17 725 | 1 193 | 665 |
| Silicon metal | tonnes | 21 | 1 | ... | ... | ... |
| Scrap | tonnes | 380 328 | 326 407 | 376 554 | 358 185 | 440 622 |
| Lead | | | | | | |
| Unwrought | tonnes | 58 | ... | 412 | 3 846 | 7 774 |
| Scrap | tonnes | 459 | 437 | 520 | 1 414 | 153 |
| Manganese | | | | | | |
| Metal | tonnes | 490 | 923 | 1 320 | ... | ... |
| Mercury | kilograms | ... | 2 476 | 2 500 | ... | 3 400 |
| Molybdenum | | | | | | |
| Metal | tonnes | 76 | 1 | 47 | 1 | 1 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 938 | 0 | 86 | ... | ... |
| Unwrought (a) | tonnes | 619 | — | 999 | ... | 42 |
| Scrap | tonnes | 1 587 | 195 | 108 | 296 | 34 |
| Crude petroleum (c) | tonnes | *1 031 000 | *648 000 | *283 000 | *321 000 | *339 000 |
| Platinum metals | | | | | | |
| Waste & scrap | kilograms | 216 839 | 41 383 | 3 706 | 3 981 | ... |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 784 | 4 156 | 2 129 | 1 064 | 2 319 |
| Metals | tonnes | 5 | ... | 30 | 14 | 3 |
| Silver | | | | | | |
| Metal | kilograms | 83 | 364 | ... | 13 | 93 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 1 | ... | 25 | 39 | 65 |
| Tin | | | | | | |
| Scrap | tonnes | 54 | 18 | 8 | 7 | 125 |
| Titanium | | | | | | |
| Metal | tonnes | 145 | 316 | 336 | 188 | 31 |

Estonia

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|-------|-------|-------|-------|------|
| Tungsten | | | | | | |
| Ores & concentrates | tonnes | 71 | 2 | 127 | ... | ... |
| Metal | tonnes | 307 | 4 | 196 | 1 | 3 |
| Zinc | | | | | | |
| Scrap | tonnes | 1 429 | 1 408 | 1 612 | 1 146 | 539 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite
- (c) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 380 156 | 669 205 | 464 516 | 456 144 | 739 618 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 1 757 | 270 | 854 | 1 586 | 182 |
| Unwrought (a) | tonnes | 6 047 | 6 086 | 10 428 | 5 859 | 1 686 |
| Asbestos | tonnes | 58 | 61 | ... | ... | ... |
| Cement | | | | | | |
| Cement clinkers | tonnes | ... | ... | ... | ... | 21 219 |
| Portland cement | tonnes | 44 989 | 31 847 | 36 438 | 16 827 | 3 311 |
| Other cement | tonnes | 572 | 451 | 634 | ... | ... |
| Chromium | | | | | | |
| Metal | tonnes | 204 | 0 | 140 | 8 | 23 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 126 569 | 59 183 | 60 731 | 44 399 | 53 647 |
| Cobalt | | | | | | |
| Metal | tonnes | 30 | 0 | 138 | 17 | 0 |
| Gold | | | | | | |
| Metal | kilograms | ... | 58 | 2 570 | 74 | 234 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 13 236 | 20 355 | 23 314 | 80 834 | 20 957 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | ... | ... | ... | ... | 240 |
| Ferro-alloys | tonnes | 12 273 | 9 905 | 16 840 | 2 132 | 2 125 |
| Silicon metal | tonnes | 649 | 946 | 1 827 | 574 | 125 |
| Scrap | tonnes | 28 995 | 17 142 | 35 654 | 85 689 | 111 930 |
| Manganese | | | | | | |
| Metal | tonnes | 821 | 155 | 1 201 | 401 | 552 |
| Molybdenum | | | | | | |
| Metal | tonnes | 102 | 0 | 43 | 4 | ... |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 1 779 | 1 075 | 1 696 | 46 | 73 |
| Unwrought (a) | tonnes | 691 | 315 | 1 328 | 163 | 60 |
| Scrap | tonnes | 1 641 | 211 | 100 | 331 | 108 |
| Platinum metals | | | | | | |
| Waste & scrap | kilograms | 8 171 | 8 790 | 7 250 | ... | ... |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 24 891 | *18 000 | 19 986 | 23 469 | 15 248 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 3 | 609 | 1 734 | 3 208 | 4 317 |
| Salt | tonnes | 72 431 | 78 085 | 78 883 | 78 849 | 58 269 |
| Silver | | | | | | |
| Metal | kilograms | 8 089 | 9 575 | 8 892 | 10 512 | 132 992 |
| Talc | tonnes | ... | ... | ... | ... | 300 |
| Tin | | | | | | |
| Unwrought | tonnes | 301 | ... | 12 | 16 | 6 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|-------|-------|--------|--------|-------|
| Titanium | | | | | | |
| Metal | tonnes | 57 | 302 | 234 | 113 | 216 |
| Oxides | tonnes | 1 273 | 1 090 | 1 082 | 235 | 1 344 |
| Tungsten | | | | | | |
| Ores & concentrates | tonnes | 68 | — | 121 | ... | ... |
| Metal | tonnes | 408 | 2 | 130 | 3 | 1 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 498 | ... | 10 578 | 17 468 | 9 105 |
| Scrap | tonnes | 6 568 | 5 245 | 4 473 | 191 | 18 |

Note(s):-

(a) Including alloys

(b) Including anthracite

Finland

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------------|---------------------------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 53 000 000 | 51 000 000 | 55 000 000 | 55 000 000 | 63 000 000 |
| Crushed rock | tonnes | 38 000 000 | 39 000 000 | 40 000 000 | 43 000 000 | 44 000 000 |
| Cadmium | tonnes | 604 | 400 | — | — | — |
| Cement, finished (a) | tonnes | 1 324 705 | 1 198 423 | 1 186 000 | 1 295 000 | 1 347 000 |
| Chromium ores and concentrates | tonnes | 575 126 | 566 090 | 549 000 | 580 000 | 572 000 |
| Cobalt metal | tonnes | 8 100 | 8 240 | 7 989 | 7 893 | 8 171 |
| Copper, mine | tonnes (metal content) | 11 600 | 14 400 | 14 900 | 15 500 | 15 500 |
| Copper, smelter | tonnes | 169 251 | 160 896 | 160 596 | 151 647 | 157 900 |
| Copper, refined | tonnes | 115 500 | 126 016 | 135 713 | 132 384 | 132 126 |
| Feldspar | tonnes | 36 145 | 39 552 | 59 362 | 44 495 | 42 783 |
| Gold, mine | kilograms (metal content) | 1 700 | 1 300 | *1 200 | *1 300 | *1 300 |
| Pig iron | tonnes | 2 851 821 | 2 828 275 | 3 092 051 | 3 036 566 | 3 056 165 |
| Crude steel | tonnes | 3 938 122 | 4 002 914 | 4 766 203 | 4 832 427 | 4 738 446 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 236 000 | 248 000 | 250 000 | 264 492 | 234 881 |
| Mercury | kilograms | 71 200 | 50 600 | 25 000 | 23 500 | 34 200 |
| Mica | tonnes | 8 983 | 7 170 | 9 337 | 9 250 | 9 500 |
| Nickel, mine | tonnes (metal content) | 3 700 | 3 500 | 3 400 | 3 400 | 3 400 |
| Nickel, smelter/refinery | tonnes | 54 600 | 55 348 | 50 989 | 49 580 | 39 159 |
| Phosphate rock | tonnes | 767 020 | 799 814 | 799 339 | 838 000 | 823 000 |
| Selenium metal | tonnes | 42 | 37 | 52 | 65 | 66 |
| Silver, mine | kilograms (metal content) | *11 000 | *12 000 | *12 000 | *13 000 | *13 000 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes (sulphur content) | 260 000 | 235 000 | 276 200 | 283 700 | 189 000 |
| Recovered (b) | tonnes (sulphur content) | 329 555 | 328 441 | 328 779 | 325 523 | 305 013 |
| Recovered (c) | tonnes (sulphur content) | 46 000 | 55 000 | 61 000 | 65 000 | 70 000 |
| Talc | tonnes | 476 620 | 477 229 | 501 658 | 528 943 | 508 169 |
| Wollastonite | tonnes | 18 399 | 17 400 | 17 300 | 16 763 | 15 950 |
| Zinc, mine | tonnes (metal content) | 20 100 | 34 100 | 38 800 | 37 200 | 40 500 |
| Slab zinc | tonnes | 248 800 | 235 300 | 265 900 | 284 525 | 281 904 |

Note(s):-

(1) Finland is believed to produce arsenic

- (a) Sales
- (b) From metal sulphide processing
- (c) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 581 353 | 879 966 | 446 404 | 422 709 | 580 815 |
| Aluminium and bauxite | | | | | | |
| Unwrought alloys | tonnes | 33 670 | 23 529 | 18 557 | 17 254 | 14 107 |
| Scrap | tonnes | 7 913 | 15 189 | 16 720 | 22 946 | 21 053 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 15 891 | 10 286 | 1 132 | 188 | 155 |
| Cadmium | | | | | | |
| Metal | tonnes | 682 | 34 | 0 | ... | — |
| Cement | | | | | | |
| Portland cement | tonnes | 872 | 633 | 837 | 11 449 | 3 367 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 354 | 281 | 612 | 708 | 841 |
| Cobalt | | | | | | |
| Metal (a) | tonnes | *3 600 | *3 900 | *4 100 | *5 200 | *5 800 |
| Oxides (a) | tonnes | *3 500 | *3 700 | *3 400 | *2 100 | *1 700 |
| Copper | | | | | | |
| Unwrought, unrefined | tonnes | 51 804 | 43 523 | 33 180 | 25 618 | 29 685 |
| Unwrought, refined | tonnes | 19 935 | 37 256 | 34 333 | 27 650 | 40 170 |
| Unwrought alloys | tonnes | 1 382 | 1 002 | 724 | 903 | 746 |
| Scrap | tonnes | 14 032 | 16 462 | 19 693 | 23 543 | 30 577 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------------|-----------|-------------|-------------|-------------|-------------|----------|
| Feldspar | tonnes | 32 570 | 30 444 | 33 632 | 42 612 | 37 386 |
| Gold | | | | | | |
| Waste & scrap | kilograms | 912 | 762 | 929 | 368 | 778 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 4 710 | 5 026 | 981 | 440 | 451 |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-chrome & ferro-silico-chrome | tonnes | 82 590 | 80 026 | 33 499 | 35 780 | 39 341 |
| Ingots, blooms, billets | tonnes | 130 066 | 186 989 | 501 945 | 624 170 | 436 083 |
| Scrap | tonnes | 362 373 | 359 153 | 374 778 | 315 977 | 286 494 |
| Kaolin | tonnes | 7 561 | 10 698 | 10 032 | 8 111 | 7 378 |
| Lead | | | | | | |
| Scrap | tonnes | 811 | 338 | 159 | 884 | 3 589 |
| Mercury | kilograms | 77 627 | 54 859 | 25 530 | 23 462 | 32 090 |
| Mica | tonnes | 7 362 | 5 514 | 8 099 | 7 511 | 5 745 |
| Nickel | | | | | | |
| Ores & concentrates | tonnes | 30 711 | 11 939 | 1 459 | — | — |
| Unwrought | tonnes | 36 815 | 39 367 | 37 416 | 36 458 | 30 628 |
| Scrap | tonnes | 50 | 118 | ... | 26 | 28 |
| Oxides | tonnes | ... | (a) *2 000 | (a) *600 | (a) *500 | (a) *400 |
| Phosphates | tonnes | ... | 40 | 1 626 | 16 375 | 996 |
| Potash | | | | | | |
| Sulphate | tonnes | (a) *14 000 | (a) *33 300 | (a) *51 300 | (a) *34 900 | 33 484 |
| Other potassic fertilisers | tonnes | 4 368 | 3 075 | 710 | 1 094 | 38 993 |
| Silver | | | | | | |
| Ores & concentrates | kilograms | 220 037 | 530 720 | 357 250 | 507 350 | 416 650 |
| Metal | kilograms | 20 207 | 6 886 | 6 882 | 9 804 | 6 764 |
| Sulphur and pyrites | | | | | | |
| Pyrites (a) | tonnes | *250 700 | *282 000 | *266 000 | *279 000 | *100 000 |
| Talc (a) | tonnes | *135 000 | *120 000 | *227 000 | *276 000 | *278 000 |
| Tin | | | | | | |
| Unwrought alloys | tonnes | 91 | 33 | 9 | 46 | 60 |
| Scrap | tonnes | 83 | 104 | 126 | 86 | 58 |
| Titanium | | | | | | |
| Metal | tonnes | 109 | 26 | 30 | 22 | 44 |
| Oxides (a) | tonnes | *128 700 | *127 000 | *84 000 | *98 000 | *105 000 |
| Tungsten | | | | | | |
| Metal | tonnes | 28 | 49 | 67 | 91 | 77 |
| Zinc | | | | | | |
| Unwrought | tonnes | 175 402 | 186 916 | 212 125 | 235 735 | 235 320 |
| Unwrought alloys | tonnes | 206 | 105 | 97 | 436 | 83 |
| Scrap | tonnes | 8 159 | 7 324 | 5 195 | 2 281 | 2 116 |

Note(s):-

(a) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|--------|--------|--------|--------|--------|
| Primary aggregates | tonnes | 44 785 | 29 163 | 47 702 | 75 016 | 43 488 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 3 544 | 3 790 | 6 027 | 4 782 | 3 661 |
| Alumina | tonnes | 2 204 | 2 042 | 1 904 | 2 220 | 2 659 |
| Alumina hydrate | tonnes | 41 950 | 44 570 | 24 958 | 37 361 | 28 300 |
| Unwrought | tonnes | 21 586 | 13 704 | 3 534 | 3 295 | 4 057 |
| Unwrought alloys | tonnes | 28 948 | 24 253 | 33 174 | 37 999 | 40 510 |
| Scrap | tonnes | 29 829 | 30 310 | 23 445 | 18 901 | 15 537 |
| Antimony | | | | | | |
| Oxide | tonnes | 269 | 238 | 238 | 248 | 199 |
| Barytes | tonnes | 2 537 | 3 070 | 3 119 | 3 559 | 3 931 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 50 898 | 27 758 | 26 569 | 27 321 | 26 395 |
| Fuller's earth | tonnes | 60 | 207 | 212 | 322 | 201 |

Finland

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|------------|-----------|-----------|
| Bromine | kilograms | 92 000 | 57 054 | 56 506 | 71 251 | 71 000 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 95 591 | 7 265 | 67 297 | 28 129 | 17 594 |
| Portland cement | tonnes | 333 868 | 382 160 | 438 363 | 423 958 | 383 260 |
| Other cement | tonnes | 8 722 | 8 669 | 9 654 | 9 344 | 13 211 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 7 174 | 4 294 | 6 050 | 6 092 | 6 962 |
| Metal | tonnes | 174 | 87 | 190 | 164 | 258 |
| Coal | | | | | | |
| Hard coal (c) | tonnes | 6 174 441 | 5 788 973 | 10 145 037 | 8 283 891 | 4 724 392 |
| Cobalt | | | | | | |
| Ore | tonnes | 61 785 | 64 274 | 41 707 | 80 202 | 54 794 |
| Metal | tonnes | ... | (b) *400 | (b) *100 | (b) *700 | 1 759 |
| Oxides | tonnes | 1 | 4 | 45 | 126 | 336 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 503 460 | 500 798 | 543 488 | 528 930 | 504 658 |
| Unwrought, refined | tonnes | 5 489 | 347 | 82 | 11 | 35 |
| Unwrought alloys | tonnes | 3 899 | 3 796 | 4 311 | 2 778 | 3 229 |
| Scrap | tonnes | 3 624 | 3 190 | 2 472 | 1 735 | 2 423 |
| Diamond | | | | | | |
| Unsorted | carats | 35 000 | ... | ... | 55 000 | 120 000 |
| Gem, cut | carats | 160 000 | ... | ... | 235 000 | 355 000 |
| Industrial | carats | 20 000 | ... | ... | ... | ... |
| Dust | carats | 345 000 | 445 000 | 365 000 | 320 000 | 450 000 |
| Diatomite | tonnes | 2 996 | 5 871 | 6 981 | 5 881 | 2 700 |
| Feldspar | tonnes | 742 | 352 | 104 | 257 | 380 |
| Fluorspar | tonnes | 10 892 | 10 089 | 18 672 | 17 069 | 16 597 |
| Gold | | | | | | |
| Metal | kilograms | 1 677 | 1 132 | 1 230 | 1 332 | 949 |
| Waste & scrap | kilograms | ... | 46 928 | 90 780 | 67 582 | 22 981 |
| Graphite | tonnes | 411 | 281 | 197 | 168 | 84 |
| Gypsum | | | | | | |
| Crude | tonnes | 292 833 | 286 347 | 231 517 | 278 645 | 341 680 |
| Calcined | tonnes | 7 725 | 7 682 | 7 066 | 7 010 | 7 517 |
| Iodine | kilograms | 4 491 | 9 000 | 4 879 | 27 020 | 6 209 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 3 916 207 | 3 791 710 | 4 212 158 | 3 921 507 | 4 215 633 |
| Burnt pyrites | tonnes | 56 | 13 132 | 26 163 | 63 | — |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 42 707 | 72 083 | 41 213 | 30 453 | 27 160 |
| Sponge & powder | tonnes | 12 235 | 16 335 | 28 412 | 16 906 | 969 |
| Ferro-chrome | tonnes | 5 073 | 5 690 | 9 395 | 6 562 | 7 404 |
| Ferro-manganese | tonnes | 13 199 | 12 744 | 16 237 | 15 805 | 14 728 |
| Ferro-silico-manganese | tonnes | 29 989 | 32 832 | 41 466 | 40 800 | 38 375 |
| Ferro-molybdenum | tonnes | 1 873 | 2 333 | 2 776 | 2 709 | 2 293 |
| Ferro-nickel | tonnes | 61 421 | 61 244 | 71 996 | 60 213 | 47 531 |
| Ferro-niobium | tonnes | 426 | 485 | 494 | 470 | 478 |
| Ferro-phosphorus | tonnes | 221 | 139 | 506 | 570 | 489 |
| Ferro-silicon | tonnes | 18 928 | 20 729 | 37 976 | 32 507 | 25 723 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 1 271 | 1 271 | 1 632 | 2 063 | 1 912 |
| Ferro-vanadium | tonnes | 175 | 222 | 238 | 250 | 243 |
| Other ferro-alloys | tonnes | 4 767 | 3 162 | 3 640 | 4 448 | 4 505 |
| Silicon metal | tonnes | 3 007 | 2 397 | 1 601 | 2 097 | 1 306 |
| Ingots, blooms, billets | tonnes | 448 017 | 350 229 | 196 611 | 253 730 | 51 678 |
| Scrap | tonnes | 482 372 | 476 516 | 781 633 | 865 142 | 756 267 |
| Kaolin | tonnes | 1 355 460 | 1 207 343 | 1 305 240 | 1 301 806 | 1 144 335 |
| Lead | | | | | | |
| Unwrought | tonnes | 1 825 | 3 032 | 2 753 | 2 582 | 2 854 |
| Scrap | tonnes | 287 | 137 | 139 | 41 | 29 |
| Magnesite and magnesia | | | | | | |
| Magnesia | tonnes | 12 856 | 10 159 | 17 096 | 11 567 | 16 476 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 10 538 | 36 014 | 9 983 | 20 381 | 28 335 |
| Metal | tonnes | 259 | 997 | 717 | 547 | 753 |
| Mercury | kilograms | 177 | 158 | 214 | 554 | 28 |
| Mica | tonnes | 1 818 | 2 621 | 3 664 | 2 861 | 2 998 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-----------|------------|------------|------------|------------|------------|
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 3 296 | 3 581 | 4 868 | 5 603 | 4 127 |
| Nickel | | | | | | |
| Ores & concentrates | tonnes | 250 973 | 178 968 | 146 122 | 169 170 | 104 983 |
| Mattes, sinters etc. | tonnes | 30 946 | 57 571 | 51 225 | 42 944 | 50 194 |
| Unwrought (a) | tonnes | 9 809 | 14 977 | 24 289 | 24 307 | 23 801 |
| Unwrought alloys | tonnes | ... | ... | ... | ... | 875 |
| Scrap | tonnes | 31 | 90 | 200 | 1 332 | 860 |
| Oxides | tonnes | 48 | 6 093 | 0 | 11 | ... |
| Crude petroleum | tonnes | 10 951 956 | 11 745 754 | 12 019 477 | 12 249 366 | 10 603 534 |
| Phosphates | tonnes | 46 352 | 55 716 | 55 555 | 57 184 | 488 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 248 | 296 | 773 | 231 | 495 |
| Potash | | | | | | |
| Chloride (d) | tonnes | 168 200 | 156 100 | 177 100 | 192 600 | 148 400 |
| Salt | tonnes | 366 217 | 447 703 | 395 727 | 408 367 | 438 346 |
| Sillimanite | tonnes | 298 | 338 | 299 | 302 | 445 |
| Silver | | | | | | |
| Metal | kilograms | 89 015 | 87 543 | 56 470 | 75 350 | 70 623 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 35 387 | 26 123 | 19 575 | 8 238 | 310 |
| Talc | tonnes | 4 027 | 3 251 | 3 971 | 1 827 | 866 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 199 | 149 | 151 | 126 | 178 |
| Titanium | | | | | | |
| Metal | tonnes | 112 | 84 | 107 | 258 | 121 |
| Oxides | tonnes | 9 007 | 10 335 | 11 390 | 13 163 | 14 380 |
| Tungsten | | | | | | |
| Metal | tonnes | 119 | 113 | 169 | 119 | 121 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 422 274 | 433 196 | 436 345 | 479 603 | 499 024 |
| Unwrought alloys | tonnes | ... | ... | ... | ... | 1 218 |
| Scrap | tonnes | 1 882 | 2 030 | 2 511 | 395 | 711 |

Note(s):-

- (a) Including alloys
- (b) BGS estimates, based on known exports from certain countries
- (c) Including anthracite
- (d) K₂O content

France

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------------|---|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 175 150 000 | 167 970 000 | 165 470 000 | 168 080 000 | 168 640 000 |
| Crushed rock | tonnes | 221 600 000 | 215 290 000 | 217 400 000 | 223 170 000 | 219 480 000 |
| Bauxite | tonnes | 153 000 | 150 000 | 170 000 | 170 000 | 175 000 |
| Alumina | tonnes (Al_2O_3 content) | *510 000 | *500 000 | *500 000 | *500 000 | *500 000 |
| Primary aluminium | tonnes | 461 000 | 463 000 | 444 000 | 447 000 | 440 000 |
| White arsenic | tonnes | *1 000 | *1 000 | *1 000 | *1 000 | *1 000 |
| Barytes | tonnes | 81 000 | 85 200 | 81 100 | 81 000 | *81 000 |
| Bromine | kilograms | *8 000 000 | *8 000 000 | *8 000 000 | *8 000 000 | *8 000 000 |
| Cadmium | tonnes | 176 | 154 | *120 | *120 | *100 |
| Cement clinker | tonnes | 16 503 000 | 16 479 000 | 16 313 000 | 17 157 000 | 17 332 000 |
| Cement, finished | tonnes | 19 839 000 | 19 437 000 | 19 655 000 | 20 962 000 | 21 277 000 |
| Coal | | | | | | |
| Anthracite & bituminous | tonnes | 1 972 000 | 1 483 000 | 1 728 000 | 200 000 | — |
| Lignite | tonnes | 324 000 | 147 000 | 9 000 | — | — |
| Diatomite | tonnes | *85 000 | *80 000 | *80 000 | *75 000 | *75 000 |
| Feldspar | tonnes | 720 000 | 659 000 | 654 000 | 628 000 | 651 000 |
| Fluorspar | tonnes | 123 000 | 122 000 | 90 000 | 70 000 | 53 000 |
| Gold, mine | kilograms (metal content) | 2 512 | 1 724 | 1 470 | — | — |
| Gypsum | tonnes | *4 500 000 | *3 500 000 | *3 500 000 | *3 500 000 | *3 500 000 |
| Iron ore | tonnes | 36 587 | 21 367 | — | — | — |
| Pig iron | tonnes | 11 884 224 | 13 093 042 | 12 615 893 | 13 087 705 | 12 595 584 |
| Crude steel | tonnes | 19 190 552 | 20 258 473 | 19 757 864 | 20 770 252 | 19 480 777 |
| Ferro-alloys | | | | | | |
| Ferro-manganese & spiegeleisen | tonnes | 414 200 | 416 569 | *300 000 | *106 000 | ... |
| Ferro-silico-manganese | tonnes | 65 248 | 66 215 | *107 000 | *64 000 | ... |
| Ferro-silicon | tonnes | *100 000 | *100 000 | *100 000 | *100 000 | *100 000 |
| Silicon metal | tonnes | 89 896 | 84 768 | *85 000 | *85 000 | *85 000 |
| Kaolin | tonnes | 377 000 | 339 000 | 335 000 | 316 000 | 293 000 |
| Lead, refined | tonnes | 231 400 | 203 400 | 91 000 | 89 000 | *90 000 |
| Primary magnesium metal | tonnes | 4 800 | 2 000 | — | — | — |
| Mica (a) | tonnes | 15 000 | 17 000 | 18 000 | 19 000 | ... |
| Nickel, smelter/refinery | tonnes | 13 036 | 11 444 | 11 370 | 12 103 | 12 684 |
| Crude petroleum | tonnes | 1 382 646 | 1 316 890 | 1 219 000 | 1 138 000 | 1 079 000 |
| Natural gas | million m ³ | 1 809 | 1 751 | 1 523 | 1 325 | 1 013 |
| Potash | | | | | | |
| Potassic salts | tonnes (K_2O content) | 244 000 | 128 000 | — | — | — |
| Salt | | | | | | |
| Rock salt | tonnes | 596 000 | 434 000 | 320 000 | 406 000 | 494 000 |
| Brine salt | tonnes | 1 452 000 | 1 456 000 | 1 409 000 | 1 433 000 | 1 468 000 |
| Salt in brine | tonnes | 4 023 000 | 4 056 000 | 4 351 000 | 4 408 000 | 4 750 780 |
| Sea salt | tonnes | 1 536 000 | 848 000 | 1 302 000 | 1 365 000 | 1 026 000 |
| Sillimanite minerals | | | | | | |
| Andalusite | tonnes | 61 000 | 59 000 | 62 000 | 68 000 | *65 000 |
| Silver, mine | kilograms (metal content) | 929 | 709 | 495 | 682 | *700 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | 840 000 | 795 600 | 710 400 | 698 400 | 622 345 |
| Recovered (c) | tonnes (sulphur content) | *260 000 | 229 000 | 196 000 | 196 000 | 180 000 |
| Talc | tonnes | 417 000 | 359 000 | 394 000 | 402 000 | 416 000 |
| Uranium, mine | tonnes (metal content) | 194 | 12 | — | — | — |
| Slab zinc | tonnes | 328 900 | 333 300 | 257 000 | 260 000 | 209 000 |

Note(s):-

- (1) France may produce fuller's earth
- (2) In addition to the countries producing sillimanite minerals, synthetic mullite is known to be produced in France
- (3) Significant quantities of germanium are believed to be recovered from imported or domestic material

- (a) Including mica recovered from mica schists and/or kaolin beneficiation
- (b) From petroleum refining and/or natural gas
- (c) Other

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|-----------|-----------|
| Primary aggregates | tonnes | 12 547 219 | 11 154 637 | 10 116 439 | 9 389 763 | 8 492 936 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 4 157 | 14 013 | 253 | 2 985 | 5 195 |
| Alumina | tonnes | 166 329 | 167 309 | 188 951 | 232 762 | 255 392 |
| Alumina hydrate | tonnes | 117 496 | 103 258 | 125 437 | 144 331 | 139 694 |
| Unwrought | tonnes | 78 306 | 81 601 | 63 659 | 70 010 | 77 097 |
| Unwrought alloys | tonnes | 72 663 | 75 069 | 75 318 | 78 047 | 95 700 |
| Scrap | tonnes | 248 291 | 274 551 | 257 279 | 299 226 | 314 243 |
| Antimony | | | | | | |
| Metal | tonnes | 60 | 104 | 8 | 79 | 186 |
| Oxide | tonnes | 3 715 | 3 391 | 4 352 | 4 540 | 5 177 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 22 | ... | 0 | ... | 8 |
| Asbestos | tonnes | 59 | ... | 5 | 31 | — |
| Barytes (b) | tonnes | *61 000 | *30 200 | *55 500 | *75 700 | *57 700 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 23 580 | 20 343 | 18 966 | 7 696 | 9 243 |
| Fuller's earth | tonnes | 267 | 34 | — | 10 | 31 |
| Bismuth | | | | | | |
| Compounds | tonnes | 12 | ... | ... | ... | ... |
| Metal | tonnes | 28 | 26 | 46 | 28 | 39 |
| Cadmium | | | | | | |
| Metal | tonnes | 3 614 | 1 232 | 794 | 604 | 533 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 491 760 | 555 646 | 479 952 | 460 364 | 310 228 |
| Portland cement | tonnes | 686 872 | 549 756 | 604 494 | 785 100 | 792 192 |
| Other cement | tonnes | 120 320 | 157 945 | 144 523 | 112 828 | 102 222 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 2 129 | 2 835 | 2 879 | 2 928 | 2 340 |
| Metal | tonnes | 6 634 | 5 056 | 4 498 | 7 182 | 8 074 |
| Coal | | | | | | |
| Anthracite | tonnes | 15 698 | 26 834 | 9 324 | 1 077 | 14 913 |
| Other coal | tonnes | 69 544 | 94 865 | 74 343 | 93 265 | 68 197 |
| Cobalt | | | | | | |
| Metal | tonnes | 733 | 516 | 502 | 675 | 699 |
| Oxides | tonnes | 114 | 64 | 69 | 221 | 57 |
| Copper | | | | | | |
| Unwrought | tonnes | 27 912 | 15 723 | 32 947 | 60 745 | 48 050 |
| Unwrought alloys | tonnes | 11 581 | 9 283 | 6 585 | 11 940 | 9 851 |
| Scrap | tonnes | 190 041 | 192 020 | 180 294 | 243 074 | 262 874 |
| Diamond | | | | | | |
| Unsorted | carats | £264 000 | £283 000 | £398 000 | £274 000 | £518 000 |
| Gem, rough | carats | 97 000 | 149 000 | ... | ... | 500 000 |
| Gem, cut | carats | 1 000 000 | ... | 1 000 000 | 1 500 000 | 1 500 000 |
| Industrial | carats | £3 438 000 | £2 554 000 | £915 000 | £20 000 | £50 000 |
| Diatomite | tonnes | 28 149 | 27 647 | 30 199 | 26 043 | 25 379 |
| Feldspar | tonnes | 385 161 | 290 340 | 286 371 | 219 741 | 255 836 |
| Fluorspar | tonnes | 38 023 | 47 439 | 18 519 | 12 002 | 6 821 |
| Gold | | | | | | |
| Metal | kilograms | 31 900 | 29 700 | 34 600 | 31 500 | 18 100 |
| Waste & scrap | kilograms | 77 800 | 40 800 | 33 700 | 70 500 | 29 600 |
| Graphite | tonnes | 178 | ... | 167 | 122 | 225 |
| Gypsum | | | | | | |
| Crude | tonnes | 478 877 | 427 138 | 335 780 | 324 894 | 250 845 |
| Calcined | tonnes | 282 629 | 286 568 | 297 326 | 311 437 | 350 955 |
| Iodine | kilograms | 74 900 | 107 000 | 30 900 | 30 500 | 40 900 |
| Iron ore | tonnes | 38 116 | 16 649 | 43 473 | 38 413 | 106 849 |

France

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 4 426 | 3 378 | 153 | 679 | 350 |
| Sponge & powder | tonnes | 6 895 | 5 983 | 6 231 | 5 221 | 6 465 |
| Ferro-chrome | tonnes | 2 478 | 3 747 | 1 456 | 1 074 | 857 |
| Ferro-silico-magnesium | tonnes | 5 714 | 6 521 | 5 262 | 5 521 | 6 829 |
| Ferro-manganese | tonnes | 26 049 | 26 302 | 28 094 | 14 360 | 7 181 |
| Ferro-silico-manganese | tonnes | 62 877 | 73 647 | 53 270 | 63 483 | 76 021 |
| Ferro-molybdenum | tonnes | 410 | 348 | 300 | 538 | 547 |
| Ferro-nickel | tonnes | 712 | 104 | 2 | 7 | 25 |
| Ferro-niobium | tonnes | 784 | 361 | 926 | 521 | 240 |
| Ferro-silicon | tonnes | 43 956 | 53 682 | 65 871 | 65 881 | 69 551 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 1 842 | 1 434 | 1 463 | 1 305 | 1 542 |
| Ferro-vanadium | tonnes | 21 | 25 | 50 | 53 | 98 |
| Other ferro-alloys | tonnes | 45 650 | 35 746 | 37 534 | 34 781 | 34 138 |
| Ingots, blooms, billets | tonnes | 2 621 568 | 3 419 270 | 3 420 829 | 3 833 258 | 3 914 427 |
| Scrap | tonnes | 4 161 312 | 4 656 513 | 4 990 462 | 5 578 148 | 4 955 474 |
| Kaolin | tonnes | 290 332 | 325 323 | 1 613 484 | 484 554 | 421 927 |
| Lead | | | | | | |
| Unwrought | tonnes | 62 680 | 60 095 | 12 868 | 6 182 | 6 920 |
| Scrap | tonnes | 21 979 | 23 473 | 27 789 | 27 003 | 24 683 |
| Lithium | | | | | | |
| Carbonate | tonnes | 3 130 | 2 955 | 2 382 | 1 166 | 462 |
| Magnesite and magnesia | | | | | | |
| Magnesia | tonnes | 9 561 | 14 126 | 23 037 | 37 930 | 45 661 |
| Manganese | | | | | | |
| Ores & concentrates (a) | tonnes | 382 914 | 413 461 | 332 067 | 272 815 | 139 723 |
| Metal | tonnes | 261 | 168 | 424 | 745 | 324 |
| Mercury | kilograms | 12 500 | 7 100 | 6 800 | 93 800 | 15 400 |
| Mica | tonnes | 2 836 | 4 387 | 114 464 | 14 323 | 13 469 |
| Molybdenum | | | | | | |
| Metal | tonnes | 93 | 65 | 15 | 436 | 35 |
| Oxides | tonnes | 11 | 20 | 27 | 31 | 9 |
| Nickel | | | | | | |
| Unwrought | tonnes | 9 094 | 7 460 | 8 396 | 9 203 | 10 148 |
| Unwrought alloys | tonnes | 434 | 294 | 542 | 1 455 | 1 762 |
| Scrap | tonnes | 9 134 | 6 625 | 8 306 | 6 618 | 6 373 |
| Oxides | tonnes | 551 | 24 | 359 | 1 140 | 63 |
| Crude petroleum | tonnes | 55 631 | 90 903 | 91 091 | 39 | 20 374 |
| Phosphates | tonnes | 2 536 | 1 488 | 1 018 | 6 362 | 4 463 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 6 900 | 5 300 | 3 800 | 2 800 | 1 700 |
| Platinum metals | kilograms | 7 000 | 4 600 | 3 400 | 5 200 | 2 600 |
| Waste & scrap | kilograms | 91 300 | 107 500 | 35 400 | 44 182 | 184 400 |
| Potash | | | | | | |
| Sulphate | tonnes | 508 | 740 | 860 | 8 248 | 54 235 |
| Chloride | tonnes | 134 868 | 95 248 | 41 600 | 19 459 | 6 376 |
| Other potassic fertilisers | tonnes | 988 | 536 | 660 | 1 271 | 841 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 638 | 314 | 1 660 | 8 588 | 2 007 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 105 | 94 | 109 | 125 | 32 |
| Metals | tonnes | 26 | 231 | 58 | 65 | 7 |
| Salt | tonnes | 423 727 | 437 847 | 497 458 | 506 431 | 407 255 |
| Sillimanite | tonnes | 56 510 | 46 454 | 49 958 | 51 653 | 55 052 |
| Silver | | | | | | |
| Metal | kilograms | 658 600 | 584 600 | 465 300 | 404 600 | 252 300 |
| Sulphur and pyrites | | | | | | |
| Sulphur, crude | tonnes | 559 527 | 385 326 | 382 273 | 481 226 | 347 690 |
| Sulphur, refined | tonnes | 1 354 | 10 988 | 16 851 | 16 076 | 13 904 |
| Sulphur, sublimed & precipitated | tonnes | 753 | 764 | 652 | 562 | 642 |
| Talc | tonnes | 191 750 | 222 699 | 226 550 | 262 147 | 279 659 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 32 | 207 | 3 | 20 | 101 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|---------|---------|---------|---------|
| Tin | | | | | | |
| Unwrought | tonnes | 350 | 354 | 577 | 430 | 324 |
| Unwrought alloys | tonnes | 627 | 659 | 612 | 527 | 1 020 |
| Scrap | tonnes | 1 484 | 618 | 279 | 457 | 478 |
| Titanium | | | | | | |
| Metal | tonnes | 5 636 | 4 180 | 3 722 | 4 086 | 5 891 |
| Oxides | tonnes | 180 271 | 199 744 | 180 080 | 172 796 | 157 543 |
| Tungsten | | | | | | |
| Metal | tonnes | 911 | 624 | 538 | 571 | 574 |
| Carbide | tonnes | 366 | 348 | 241 | 251 | 265 |
| Vanadium | | | | | | |
| Pentoxide | tonnes | 10 | 8 | 183 | 138 | 13 |
| Metal | tonnes | 0 | 0 | 0 | 26 | 25 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 18 305 | 17 775 | 37 167 | 38 779 | 39 463 |
| Unwrought | tonnes | 127 252 | 143 307 | 109 839 | 115 352 | 80 472 |
| Unwrought alloys | tonnes | 30 971 | 31 535 | 31 625 | 35 879 | 33 940 |
| Scrap | tonnes | 42 470 | 33 611 | 38 294 | 56 440 | 63 571 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 657 | 1 126 | 653 | 1 129 | 1 058 |

Note(s):-

- (a) Including manganeseiferous iron ore
 (b) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 9 295 683 | 9 666 340 | 8 239 025 | 9 431 953 | 10 264 292 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 1 667 959 | 1 347 713 | 1 786 905 | 1 507 504 | 1 799 671 |
| Alumina | tonnes | 785 981 | 670 046 | 704 393 | 644 513 | 655 246 |
| Alumina hydrate | tonnes | 46 522 | 43 727 | 44 743 | 41 187 | 41 682 |
| Unwrought | tonnes | 182 477 | 148 344 | 165 490 | 144 053 | 150 798 |
| Unwrought alloys | tonnes | 324 411 | 325 980 | 324 997 | 369 795 | 366 369 |
| Scrap | tonnes | 145 422 | 133 794 | 149 876 | 143 833 | 135 611 |
| Antimony | | | | | | |
| Ores & concentrates | tonnes | 223 | 6 | 5 | 11 | 9 |
| Metal | tonnes | 6 854 | 6 645 | 5 241 | 8 486 | 7 766 |
| Oxide | tonnes | 2 090 | 2 093 | 1 972 | 2 096 | 2 243 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 50 | 17 | 4 | 9 | 21 |
| Asbestos | tonnes | 25 | 0 | 3 | 8 | 5 |
| Barytes | tonnes | 19 902 | 20 442 | 23 009 | 28 748 | 31 965 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 162 787 | 174 735 | 170 540 | 220 260 | 163 999 |
| Fuller's earth | tonnes | 1 196 | 1 794 | 3 701 | 17 907 | 18 445 |
| Bismuth | | | | | | |
| Compounds | tonnes | 101 | ... | ... | ... | ... |
| Metal | tonnes | 420 | 728 | 629 | 830 | 1 029 |
| Bromine | kilograms | 11 914 000 | 12 437 700 | 13 225 500 | 12 595 900 | 13 989 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 1 488 | 1 682 | 1 248 | 1 465 | 2 114 |
| Oxide | tonnes | 1 032 | 910 | 839 | 743 | 584 |
| Sulphide | tonnes | 7 | 82 | 20 | 5 802 | 6 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 919 175 | 852 287 | 793 933 | 865 213 | 946 642 |
| Portland cement | tonnes | 1 104 447 | 1 114 553 | 1 090 120 | 1 114 684 | 1 271 478 |
| Other cement | tonnes | 926 599 | 1 190 848 | 1 123 098 | 927 157 | 984 597 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 26 693 | 22 534 | 22 917 | 19 770 | 18 980 |
| Metal | tonnes | 699 | 782 | 677 | 1 323 | 669 |

France

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Coal | | | | | | |
| Anthracite | tonnes | 1 049 738 | 1 323 661 | 1 557 639 | 2 076 592 | 3 266 840 |
| Other coal | tonnes | 13 508 122 | 13 960 659 | 15 082 984 | 17 619 595 | 16 234 759 |
| Lignite | tonnes | 60 810 | 23 470 | 41 784 | 40 405 | 34 396 |
| Briquettes | tonnes | 98 610 | 74 423 | 68 883 | 75 872 | 116 845 |
| Cobalt | | | | | | |
| Ore | tonnes | 69 | 45 | 9 | 5 | 1 |
| Metal | tonnes | 1 723 | 1 654 | 1 813 | *1 600 | 2 038 |
| Oxides | tonnes | 471 | 370 | 533 | 522 | 474 |
| Copper | | | | | | |
| Matte & cement | tonnes | 390 | 58 | 1 651 | 386 | 19 |
| Unwrought, unrefined | tonnes | 177 | 253 | 118 | 168 | 248 |
| Unwrought, refined | tonnes | 564 415 | 576 398 | 578 525 | 590 304 | 516 881 |
| Unwrought alloys | tonnes | 12 858 | 13 722 | 8 308 | 7 564 | 10 132 |
| Scrap | tonnes | 70 698 | 65 362 | 70 422 | 78 853 | 75 464 |
| Diamond | | | | | | |
| Unsorted | carats | £5 592 000 | £3 788 000 | £3 728 000 | £3 423 000 | £3 168 000 |
| Gem, cut | carats | 12 000 000 | 10 000 000 | 12 500 000 | 10 000 000 | ... |
| Industrial | carats | 1 500 000 | 5 500 000 | 3 000 000 | 9 000 000 | ... |
| Dust | carats | 24 000 000 | 10 500 000 | 10 500 000 | 10 000 000 | 7 500 000 |
| Diatomite | tonnes | 12 725 | 12 168 | 12 194 | 12 368 | 11 181 |
| Feldspar | tonnes | 29 741 | 40 941 | 37 538 | 44 615 | 85 460 |
| Fluorspar | tonnes | 3 355 | 3 510 | 7 006 | 10 457 | 21 526 |
| Gold | | | | | | |
| Metal | kilograms | 42 500 | 35 100 | 30 900 | *30 000 | 27 700 |
| Waste & scrap | kilograms | 335 000 | 4 600 | 12 500 | ... | 5 200 |
| Graphite | tonnes | 24 440 | 13 016 | 11 149 | 15 083 | 20 449 |
| Gypsum | | | | | | |
| Crude | tonnes | 205 820 | 168 598 | 266 857 | 311 411 | 361 820 |
| Calcined | tonnes | 44 697 | 48 920 | 45 214 | 85 845 | 60 358 |
| Iodine | kilograms | 1 469 800 | 1 553 000 | 1 563 800 | 1 317 700 | 1 685 200 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 16 707 431 | 19 069 088 | 18 890 174 | 20 777 700 | 19 506 894 |
| Burnt pyrites | tonnes | 24 758 | 0 | 3 348 | 65 | 160 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 235 212 | 225 850 | 254 512 | 237 824 | 249 585 |
| Sponge & powder | tonnes | 124 727 | 140 863 | 148 215 | 151 090 | 184 661 |
| Ferro-chrome | tonnes | 253 110 | 310 760 | 260 231 | 224 722 | 192 129 |
| Ferro-silico-chrome | tonnes | 127 | 2 116 | 1 524 | 59 | 122 |
| Ferro-silico-magnesium | tonnes | 2 006 | 2 166 | 1 840 | 1 524 | 920 |
| Ferro-manganese | tonnes | 42 103 | 57 442 | 46 048 | 96 276 | 55 239 |
| Ferro-silico-manganese | tonnes | 53 527 | 64 538 | 73 362 | 61 446 | 58 403 |
| Ferro-molybdenum | tonnes | 5 803 | 4 839 | 4 643 | 5 474 | 5 235 |
| Ferro-nickel | tonnes | 27 640 | 36 725 | 28 974 | 10 966 | 9 229 |
| Ferro-niobium | tonnes | 2 133 | 1 703 | 2 286 | 2 297 | 2 722 |
| Ferro-phosphorus | tonnes | 2 550 | 2 464 | 2 160 | 2 942 | 2 536 |
| Ferro-silicon | tonnes | 68 969 | 87 071 | 70 729 | 62 260 | 71 269 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 5 259 | 5 441 | 4 828 | 4 768 | 6 448 |
| Ferro-tungsten & Fe-Si-W | tonnes | 622 | 283 | 485 | 346 | 523 |
| Ferro-vanadium | tonnes | 1 401 | 940 | 1 063 | 1 031 | 1 351 |
| Other ferro-alloys | tonnes | 42 196 | 16 543 | 16 253 | 18 670 | 27 582 |
| Silicon metal | tonnes | 22 084 | 19 212 | 16 489 | 19 299 | 25 257 |
| Ingots, blooms, billets | tonnes | 2 120 903 | 1 777 677 | 1 595 528 | 1 803 335 | 1 621 219 |
| Scrap | tonnes | 2 934 281 | 2 833 589 | 3 019 857 | 3 449 108 | 2 819 160 |
| Kaolin | tonnes | 380 166 | 386 197 | 325 358 | 349 353 | 338 848 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 182 072 | 146 270 | ... | ... | 253 |
| Unwrought | tonnes | 80 869 | 80 812 | 103 439 | 91 979 | 109 426 |
| Scrap | tonnes | 40 099 | 44 079 | 30 508 | 34 513 | 33 818 |
| Lithium | | | | | | |
| Oxides | tonnes | 420 | 329 | 347 | 407 | 482 |
| Carbonate | tonnes | 1 133 | 1 612 | 1 381 | 1 484 | 1 392 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 13 047 | 9 434 | 3 193 | 1 701 | 3 427 |
| Magnesia | tonnes | 148 516 | 146 526 | 149 468 | 148 780 | 161 488 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|------------|------------|------------|------------|------------|
| Manganese | | | | | | |
| Ores & concentrates (a) | tonnes | 1 390 507 | 968 498 | 892 176 | 626 061 | 615 884 |
| Metal | tonnes | 11 081 | 8 693 | 7 613 | 8 851 | 11 039 |
| Mercury | kilograms | 23 100 | 25 200 | 57 900 | 299 200 | 202 600 |
| Mica | | | | | | |
| Ground (b) | tonnes | 1 689 | 1 241 | 3 182 | 1 358 | 1 534 |
| Waste | tonnes | 981 | 2 001 | 1 043 | 546 | 1 423 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 2 126 | 1 604 | 1 591 | 1 492 | 1 783 |
| Metal | tonnes | 635 | 686 | 727 | 762 | 993 |
| Oxides | tonnes | 119 | 284 | 371 | 664 | 678 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 19 437 | 15 496 | 15 087 | 12 329 | 15 399 |
| Unwrought | tonnes | 34 347 | 39 979 | 30 995 | 26 842 | 22 656 |
| Unwrought alloys | tonnes | 7 372 | 2 269 | 3 192 | 5 350 | 6 104 |
| Scrap | tonnes | 1 848 | 2 048 | 2 210 | 2 068 | 1 554 |
| Oxides | tonnes | 219 | 140 | 200 | 166 | 228 |
| Crude petroleum | tonnes | 85 259 764 | 80 589 846 | 84 181 898 | 86 416 072 | 84 951 337 |
| Phosphates | tonnes | 923 926 | 919 097 | 773 860 | 593 253 | 427 194 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 12 600 | 8 500 | 5 100 | 6 200 | 5 396 |
| Platinum metals | kilograms | 22 800 | 12 100 | 15 400 | 17 900 | 3 432 |
| Waste & scrap | kilograms | 104 000 | 200 100 | 334 300 | 40 700 | 55 600 |
| Potash | | | | | | |
| Fertiliser salts | tonnes | 1 660 | 2 337 | 1 807 | 1 988 | 1 401 |
| Sulphate | tonnes | 80 698 | 93 051 | 90 543 | 77 441 | 70 705 |
| Chloride | tonnes | 1 444 445 | 1 463 860 | 1 755 346 | 1 866 149 | 1 492 129 |
| Other potassic fertilisers | tonnes | 25 096 | 25 410 | 32 600 | 31 959 | 29 488 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 15 049 | 9 914 | 10 315 | 11 710 | 7 105 |
| Other rare earth compounds | tonnes | 1 407 | 382 | 1 480 | 1 037 | 585 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 14 | 29 | 2 | 1 | 5 |
| Metals | tonnes | 230 | 169 | 279 | 251 | 322 |
| Salt | tonnes | 457 520 | 564 159 | 753 902 | 850 703 | 1 110 898 |
| Sillimanite | tonnes | 2 518 | 2 685 | 3 411 | 3 360 | 3 080 |
| Silver | | | | | | |
| Metal | kilograms | 1 421 400 | 954 400 | 970 000 | 675 000 | 729 800 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 4 229 | 7 314 | 3 359 | 5 643 | 4 521 |
| Sulphur, crude | tonnes | 55 620 | 42 855 | 50 147 | 43 846 | 39 973 |
| Sulphur, refined | tonnes | 68 001 | 74 225 | 56 388 | 27 041 | 42 353 |
| Sulphur, sublimed & precipitated | tonnes | 8 194 | 2 622 | 2 488 | 12 555 | 5 809 |
| Talc | tonnes | 41 095 | 43 342 | 40 650 | 77 240 | 76 021 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 20 | 42 | 41 | 67 | 23 |
| Tin | | | | | | |
| Unwrought | tonnes | 8 637 | 9 044 | 9 693 | 9 167 | 7 307 |
| Unwrought alloys | tonnes | 409 | 169 | 701 | 638 | 1 080 |
| Scrap | tonnes | 1 555 | 541 | 148 | 24 | 217 |
| Titanium | | | | | | |
| Ilmenite | tonnes | 112 466 | 151 799 | 127 083 | 48 930 | 60 205 |
| Other titanium minerals | tonnes | 41 040 | 12 291 | 34 984 | 81 141 | 86 552 |
| Titanium slag | tonnes | 256 420 | 123 144 | ... | 61 456 | 111 137 |
| Metal | tonnes | 8 459 | 6 461 | 5 689 | 8 259 | 9 403 |
| Oxides | tonnes | 127 843 | 138 316 | 151 809 | 140 068 | 119 699 |
| Tungsten | | | | | | |
| Metal | tonnes | 889 | 422 | 448 | 568 | 784 |
| Carbide | tonnes | 628 | 604 | 695 | 692 | 592 |
| Vanadium | | | | | | |
| Ores & concentrates | tonnes | ... | 126 | 1 | ... | 21 |
| Pentoxide | tonnes | 328 | 382 | 496 | 441 | 556 |
| Metal | tonnes | 54 | 54 | 34 | 72 | 88 |

France

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|---------|---------|---------|---------|
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 574 312 | 558 771 | 482 493 | 458 760 | 423 664 |
| Unwrought | tonnes | 126 795 | 98 355 | 115 491 | 103 037 | 143 476 |
| Unwrought alloys | tonnes | 39 967 | 32 740 | 34 874 | 56 492 | 45 566 |
| Scrap | tonnes | 13 265 | 11 144 | 8 203 | 6 046 | 6 996 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 59 386 | 43 841 | 58 457 | 48 004 | 53 701 |
| Metal | tonnes | 2 323 | 251 | 288 | 276 | 207 |

Note(s):-

- (a) Including manganiferous iron ore
- (b) Including unmanufactured

Germany

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 312 700 000 | 292 100 000 | 285 500 000 | 267 300 000 | 252 000 000 |
| Crushed rock | tonnes | 136 788 000 | 130 693 000 | 124 047 000 | 119 627 000 | 122 244 000 |
| Alumina | tonnes (Al_2O_3 content) | *750 000 | *825 000 | *830 000 | *835 000 | *830 000 |
| Primary aluminium | tonnes | 651 592 | 652 845 | 660 783 | 667 800 | 647 900 |
| White arsenic | tonnes | *200 | *200 | *200 | *200 | *200 |
| Barytes | tonnes | 108 111 | 100 993 | 109 506 | 93 624 | 88 591 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 447 913 | 495 310 | 478 796 | 404 549 | 352 374 |
| Bromine | kilograms | *500 000 | *500 000 | *500 000 | — | — |
| Cadmium | tonnes | 539 | 422 | 640 | *640 | *640 |
| Cement clinker | tonnes | 24 523 000 | 20 120 000 | 21 513 000 | 26 281 000 | 24 315 000 |
| Cement, finished | tonnes | 32 600 000 | 31 200 000 | 33 400 000 | 32 000 000 | 30 600 000 |
| Coal | | | | | | |
| Anthracite & bituminous | tonnes | 27 361 079 | 26 363 084 | 25 873 043 | 25 871 882 | 24 906 867 |
| Brown coal | tonnes | 175 364 780 | 181 778 432 | 179 086 923 | 181 926 060 | 177 881 773 |
| Copper, smelter | tonnes | 317 700 | 295 100 | 288 800 | 278 600 | 257 200 |
| Copper, refined | tonnes | 693 714 | 695 741 | 597 531 | 652 600 | 638 800 |
| Feldspar | tonnes | 302 650 | 243 368 | 233 028 | 182 842 | 168 640 |
| Fluorspar | tonnes | 30 381 | 34 429 | 33 289 | 33 203 | 35 364 |
| Graphite | tonnes | 3 190 | 3 312 | 2 840 | 3 155 | 2 638 |
| Gypsum (a) | tonnes | 1 966 000 | 1 761 000 | 1 748 000 | 1 579 000 | 1 644 000 |
| Iron ore (b) (c) | tonnes | 407 002 | 419 371 | 429 170 | 412 238 | 362 106 |
| Pig iron | tonnes | 29 394 000 | 29 967 000 | 30 071 000 | 30 628 000 | 29 300 000 |
| Crude steel | tonnes | 44 803 000 | 45 015 000 | 44 809 000 | 46 377 000 | 44 524 000 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 19 308 | 20 018 | 18 318 | 24 857 | 22 672 |
| Other ferro-alloys | tonnes | *30 000 | *30 000 | *30 000 | *30 000 | *30 000 |
| Silicon metal | tonnes | 27 739 | 25 257 | 27 870 | 28 773 | 29 349 |
| Kaolin (d) | tonnes | 696 832 | 740 821 | 738 123 | *740 000 | *750 000 |
| Lead, refined | tonnes | 373 600 | 379 905 | 356 900 | 359 200 | 341 700 |
| Crude petroleum | tonnes | 3 569 290 | 3 768 054 | 3 799 864 | 3 515 537 | 3 572 764 |
| Natural gas | million m ³ | 21 698 | 21 556 | 22 228 | 20 411 | 19 171 |
| Potash | | | | | | |
| Potassic salts | tonnes (K_2O content) | 3 548 665 | 3 471 763 | 3 563 332 | 3 626 510 | 3 663 829 |
| Salt | | | | | | |
| Rock salt | tonnes | 5 326 000 | 6 134 000 | 6 178 000 | 7 268 000 | 8 258 000 |
| Brine salt | tonnes | 1 211 000 | 1 249 000 | 1 123 000 | 974 000 | 1 006 000 |
| Salt in brine | tonnes | 6 196 000 | 6 310 000 | 6 668 000 | 7 212 000 | 7 449 000 |
| Selenium metal | tonnes | *100 | *100 | *100 | *100 | *14 |
| Sulphur and pyrites | | | | | | |
| Recovered (e) | tonnes (sulphur content) | 80 000 | 46 000 | — | — | — |
| Recovered (f) | tonnes (sulphur content) | 1 640 000 | 1 657 200 | 1 619 900 | 1 526 700 | 1 627 900 |
| Recovered (g) | tonnes (sulphur content) | 40 000 | 41 900 | 43 900 | 40 000 | 42 900 |
| Talc | tonnes | *9 000 | *8 000 | 3 859 | ... | ... |
| Uranium, mine | tonnes (metal content) | 27 | 221 | 104 | 77 | 80 |
| Slab zinc | tonnes | 361 348 | 378 561 | 388 131 | 382 020 | 334 900 |

Note(s):-

- (1) Germany is believed to produce strontium minerals and tellurium metal
- (2) Significant quantities of germanium are believed to be recovered from imported or domestic material

- (a) Including anhydrite
- (b) Including manganeseiferous iron ore
- (c) Used as aggregate in the construction industry
- (d) Washed and dried
- (e) From metal sulphide processing
- (f) From petroleum refining and/or natural gas
- (g) Other

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 21 152 142 | 19 748 571 | 19 811 898 | 21 817 271 | 21 698 651 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 35 894 | 42 524 | 26 666 | 30 647 | 28 087 |
| Alumina | tonnes | 167 226 | 201 103 | 308 210 | 294 034 | 204 075 |
| Alumina hydrate | tonnes | 537 767 | 488 918 | 472 091 | 528 700 | 527 900 |
| Unwrought | tonnes | 71 793 | 59 597 | 48 570 | 58 365 | 60 757 |
| Unwrought alloys | tonnes | 294 918 | 327 962 | 340 772 | 354 998 | 330 843 |
| Scrap | tonnes | 557 252 | 499 791 | 556 405 | 544 522 | 583 987 |
| Antimony | | | | | | |
| Metal | tonnes | 38 | 10 | 27 | 12 | 15 |
| Oxide | tonnes | 783 | 543 | 683 | 786 | 724 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 8 | 9 | 8 | 14 | 20 |
| Barytes | tonnes | 38 775 | 32 297 | 32 546 | 32 383 | 32 375 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 56 589 | 43 329 | 57 237 | 50 477 | 71 977 |
| Fuller's earth | tonnes | 410 | ... | 299 | 860 | 1 540 |
| Bismuth | | | | | | |
| Compounds | tonnes | 35 | ... | ... | ... | ... |
| Metal | tonnes | 104 | 228 | 152 | 275 | 371 |
| Bromine | kilograms | 15 000 | 13 700 | 16 700 | 5 600 | 3 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 1 | 1 | 0 | ... | ... |
| Sulphide | tonnes | 3 | 2 | 5 | 6 | 14 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 718 285 | 411 711 | 1 001 024 | 868 384 | 773 394 |
| Portland cement | tonnes | 1 959 481 | 2 083 433 | 2 472 418 | 3 496 157 | 3 587 966 |
| Other cement | tonnes | 1 084 249 | 1 226 979 | 1 196 558 | 1 580 315 | 1 876 289 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 6 771 | 11 760 | 3 666 | 12 691 | 14 188 |
| Metal | tonnes | 225 | 762 | 2 096 | 1 256 | 1 478 |
| Coal | | | | | | |
| Hard coal (a) | tonnes | 105 443 | 49 449 | 182 233 | 183 694 | 255 029 |
| Brown coal | tonnes | 304 061 | 273 953 | 71 777 | 430 | 73 |
| Briquettes | tonnes | 218 890 | 173 867 | 156 179 | 87 651 | 74 800 |
| Cobalt | | | | | | |
| Metal | tonnes | 1 027 | 901 | 1 116 | 1 441 | 1 395 |
| Oxides | tonnes | 126 | 122 | 151 | 233 | 185 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 19 053 | 15 630 | 48 674 | 49 617 | 46 139 |
| Unwrought, unrefined | tonnes | 4 989 | 2 215 | 1 592 | 53 | 232 |
| Unwrought, refined | tonnes | 108 224 | 90 919 | 117 566 | 137 238 | 149 083 |
| Unwrought alloys | tonnes | 27 379 | 26 876 | 21 421 | 21 038 | 20 232 |
| Scrap | tonnes | 261 464 | 300 340 | 363 762 | 373 809 | 439 134 |
| Diamond | | | | | | |
| Unsorted | carats | £230 000 | £16 000 | £138 000 | £663 000 | £756 000 |
| Gem, rough | carats | £90 000 | £10 000 | £87 000 | £250 000 | £619 000 |
| Gem, cut | carats | 162 390 | 178 297 | 174 915 | ... | 165 090 |
| Industrial | carats | £3 010 000 | £1 166 000 | £1 254 000 | £974 000 | £1 168 000 |
| Dust | carats | 41 500 000 | 10 000 000 | 17 000 000 | 13 500 000 | 9 000 000 |
| Diatomite | tonnes | 5 267 | 13 061 | 20 036 | 20 312 | 7 000 |
| Feldspar | tonnes | 63 736 | 134 033 | 102 472 | 118 838 | 113 329 |
| Fluorspar | tonnes | 16 634 | 22 274 | 17 105 | 17 594 | 24 061 |
| Gold | | | | | | |
| Metal | kilograms | 78 100 | 45 400 | 36 400 | 36 500 | 47 600 |
| Waste & scrap | kilograms | 1 517 300 | 1 734 400 | 651 000 | 170 065 | 30 600 |
| Graphite | tonnes | 10 334 | 12 103 | 11 746 | 14 783 | 14 241 |
| Gypsum | | | | | | |
| Crude | tonnes | 123 299 | 176 734 | 142 263 | 197 613 | 259 631 |
| Calcined | tonnes | 705 776 | 695 565 | 1 070 873 | 1 033 057 | 991 946 |
| Iodine | kilograms | 570 400 | 2 637 000 | 583 100 | 640 400 | 465 800 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Iron ore | | | | | | |
| Iron ore | tonnes | 16 280 | 15 521 | 9 376 | 8 756 | 7 023 |
| Burnt pyrites | tonnes | 6 112 | 6 907 | 6 491 | 3 241 | 7 257 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 75 137 | 67 365 | 56 571 | 112 911 | 82 834 |
| Sponge & powder | tonnes | 30 585 | 83 354 | 95 612 | 148 734 | 175 291 |
| Ferro-chrome | tonnes | 34 379 | 33 992 | 30 640 | 22 758 | 26 472 |
| Ferro-silico-chrome | tonnes | 3 115 | 608 | 1 | 79 | 4 |
| Ferro-silico-magnesium | tonnes | 6 912 | 6 825 | 5 551 | 13 887 | 14 254 |
| Ferro-manganese | tonnes | 19 346 | 13 036 | 8 937 | 13 776 | 12 660 |
| Ferro-silico-manganese | tonnes | 13 743 | 11 520 | 10 306 | 9 286 | 2 928 |
| Ferro-molybdenum | tonnes | 903 | 1 283 | 2 054 | 2 597 | 3 867 |
| Ferro-nickel | tonnes | ... | 57 | 94 | 625 | 31 |
| Ferro-niobium | tonnes | 816 | 828 | 713 | 1 076 | 1 448 |
| Ferro-phosphorus | tonnes | 1 149 | 1 163 | 691 | 786 | 936 |
| Ferro-silicon | tonnes | 66 920 | 64 000 | 60 016 | 61 239 | 53 979 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 2 877 | 3 607 | 2 478 | 3 069 | 5 263 |
| Ferro-tungsten & Fe-Si-W | tonnes | 112 | 106 | 268 | 178 | 176 |
| Ferro-vanadium | tonnes | 373 | 634 | 653 | 600 | 528 |
| Other ferro-alloys | tonnes | 20 321 | 22 860 | 21 610 | 27 285 | 25 838 |
| Silicon metal | tonnes | 10 632 | 10 060 | 16 141 | 18 064 | — |
| Ingots, blooms, billets | tonnes | 2 032 350 | 2 011 458 | 2 563 182 | 2 104 580 | 1 950 158 |
| Scrap | tonnes | 6 598 673 | 6 880 778 | 6 718 904 | 6 956 839 | 6 692 022 |
| Kaolin | tonnes | 350 804 | 333 927 | 359 926 | 369 141 | 301 870 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 8 868 | 22 024 | 31 512 | 3 423 | 102 |
| Unwrought | tonnes | 160 412 | 169 142 | 129 550 | 120 361 | 122 120 |
| Scrap | tonnes | 12 669 | 13 646 | 15 468 | 12 412 | 11 064 |
| Lithium | | | | | | |
| Oxides | tonnes | 647 | 532 | 649 | 625 | ... |
| Carbonate | tonnes | 1 771 | 1 768 | 2 484 | 2 660 | 2 991 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 233 | 186 | 878 | 218 | 61 |
| Magnesia | tonnes | 90 154 | 66 559 | 45 840 | 66 422 | 81 021 |
| Manganese | | | | | | |
| Metal | tonnes | 10 186 | 11 548 | 10 703 | 12 261 | 17 824 |
| Mercury | kilograms | 412 000 | 59 500 | 48 900 | 55 500 | 36 200 |
| Mica | tonnes | 1 922 | 2 018 | 2 457 | 3 655 | 3 656 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 157 | 240 | 905 | 2 309 | 2 770 |
| Metal | tonnes | 1 220 | 1 274 | 1 465 | 2 014 | 2 241 |
| Oxides | tonnes | 4 441 | 2 523 | 2 894 | — | — |
| Nickel | | | | | | |
| Ores & concentrates | tonnes | 8 083 | 12 229 | 10 884 | 10 717 | 7 822 |
| Unwrought | tonnes | 8 418 | 5 582 | 5 225 | 5 549 | 8 988 |
| Unwrought alloys | tonnes | 6 328 | 5 837 | 6 011 | 8 732 | 9 376 |
| Scrap | tonnes | 10 826 | 8 277 | 8 091 | 8 096 | 9 342 |
| Oxides | tonnes | 670 | 505 | 246 | 105 | 102 |
| Crude petroleum | tonnes | 907 924 | 656 861 | 1 741 465 | 1 253 391 | 1 257 658 |
| Phosphates | tonnes | 674 | 302 | 66 | 43 | 5 048 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 28 500 | 21 400 | 26 300 | 31 900 | 43 300 |
| Palladium | kilograms | 19 600 | 40 200 | 22 000 | 15 900 | 20 800 |
| Other platinum metals | kilograms | 3 400 | 4 000 | 2 900 | 4 600 | 11 100 |
| Waste & scrap | kilograms | 1 040 875 | 1 067 200 | 803 500 | 815 821 | 1 648 800 |
| Potash | | | | | | |
| Fertiliser salts (b) (c) | tonnes | 2 916 428 | 2 998 738 | 3 103 009 | 3 077 154 | 3 235 651 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 225 | 102 | 115 | 108 | 123 |
| Metals | tonnes | 16 | 8 | 10 | 4 | 1 |
| Salt | tonnes | 3 023 135 | 3 340 569 | 3 695 084 | 3 201 549 | 3 372 522 |
| Sillimanite | tonnes | 8 092 | 10 565 | 12 413 | 14 382 | 12 191 |
| Silver | | | | | | |
| Metal | kilograms | 2 446 100 | 2 638 400 | 3 032 700 | 2 814 700 | 2 631 200 |

Germany

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|--------|---------|---------|---------|---------|---------|
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 511 | 483 | 389 | 339 | 240 |
| Sulphur, crude | tonnes | 976 781 | 943 122 | 856 707 | 854 548 | 862 753 |
| Sulphur, refined | tonnes | 36 859 | 35 614 | 41 163 | 40 135 | 36 067 |
| Sulphur, sublimed & precipitated | tonnes | 14 862 | 5 184 | 4 021 | 276 | 163 |
| Talc | tonnes | 6 048 | 7 088 | 5 285 | 3 862 | 3 906 |
| Tantalum and niobium | | | | | | |
| Niobium & tantalum ores | tonnes | 379 | 545 | 174 | 93 | ... |
| Tantalum | tonnes | 258 | 719 | 323 | 337 | 190 |
| Tin | | | | | | |
| Unwrought | tonnes | 1 089 | 1 137 | 909 | 978 | 1 343 |
| Unwrought alloys | tonnes | 1 178 | 1 077 | 481 | 408 | 329 |
| Scrap | tonnes | 507 | 719 | 849 | 994 | 701 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 475 | 541 | 778 | 319 | 607 |
| Metal | tonnes | 6 257 | 6 581 | 6 705 | 8 048 | 8 911 |
| Oxides | tonnes | 290 191 | 323 059 | 331 806 | 356 007 | 359 946 |
| Tungsten | | | | | | |
| Metal | tonnes | 2 418 | 1 735 | 2 209 | 2 816 | 4 020 |
| Vanadium | | | | | | |
| Vanadiferous residues | tonnes | 630 | ... | ... | ... | ... |
| Ores & concentrates | tonnes | ... | ... | 127 | 1 060 | 4 680 |
| Pentoxide | tonnes | 83 | 81 | 102 | 296 | ... |
| Metal | tonnes | 359 | 351 | 483 | 522 | 1 469 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 62 741 | 43 050 | 4 741 | 695 | 7 257 |
| Unwrought | tonnes | 71 859 | 95 493 | 104 982 | 91 123 | 81 664 |
| Unwrought alloys | tonnes | 38 250 | 40 259 | 38 710 | 37 762 | 30 115 |
| Scrap | tonnes | 47 388 | 40 684 | 47 414 | 52 545 | 55 913 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 4 161 | 2 539 | 2 111 | 2 450 | 5 211 |
| Metal | tonnes | 265 | 343 | 300 | 275 | 286 |

Note(s):-

- (a) Including anthracite
- (b) K₂O content
- (c) Including sulphate, chloride and other potassic fertilisers

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 15 006 699 | 13 306 857 | 11 870 353 | 11 127 947 | 11 563 984 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 1 965 709 | 1 950 542 | 1 907 966 | 2 119 259 | 2 435 244 |
| Alumina | tonnes | 777 003 | 867 297 | 1 047 728 | 1 107 265 | 999 798 |
| Alumina hydrate | tonnes | 480 679 | 378 146 | 225 998 | 204 721 | 231 124 |
| Unwrought | tonnes | 625 469 | 721 430 | 796 479 | 628 038 | 648 764 |
| Unwrought alloys | tonnes | 976 513 | 945 177 | 1 099 136 | 1 170 875 | 1 121 715 |
| Scrap | tonnes | 419 586 | 483 052 | 462 320 | 462 580 | 438 066 |
| Antimony | | | | | | |
| Ores & concentrates | tonnes | 494 | — | — | 15 | — |
| Metal | tonnes | 599 | 309 | 149 | 178 | 148 |
| Oxide | tonnes | 6 384 | 6 915 | 6 707 | 7 072 | 6 560 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 8 | 5 | 5 | 4 | 2 |
| Asbestos | tonnes | 168 | 199 | 59 | 69 | 98 |
| Barytes | tonnes | 251 884 | 221 000 | 218 811 | 226 706 | 231 471 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 230 303 | 227 785 | 253 998 | 218 349 | 253 226 |
| Fuller's earth | tonnes | 7 476 | 7 315 | 8 483 | 11 202 | 9 571 |
| Bismuth | | | | | | |
| Compounds | tonnes | 1 295 | ... | ... | ... | ... |
| Metal | tonnes | 2 038 | 1 517 | 1 689 | 1 693 | 1 508 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Bromine | kilograms | 2 121 000 | 1 775 500 | 1 835 400 | 1 626 600 | 1 304 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 8 | 8 | 11 | 39 | 16 |
| Oxide | tonnes | 149 | 152 | 143 | 139 | 231 |
| Sulphide | tonnes | 11 | 8 | 8 | 6 | 18 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 494 930 | 523 967 | 325 302 | 370 454 | 289 600 |
| Portland cement | tonnes | 2 003 309 | 1 197 165 | 906 718 | 1 002 404 | 934 865 |
| Other cement | tonnes | 413 249 | 321 014 | 277 349 | 343 597 | 380 858 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 130 485 | 114 806 | 126 278 | 128 886 | 141 483 |
| Metal | tonnes | 2 257 | 3 291 | 4 063 | 5 599 | 5 428 |
| Coal | | | | | | |
| Anthracite | tonnes | 846 310 | 775 851 | 1 143 311 | 1 413 902 | 991 877 |
| Other coal | tonnes | 27 397 137 | 26 629 962 | 25 164 977 | 31 047 441 | 29 452 512 |
| Brown coal | tonnes | 1 936 950 | 1 040 979 | 49 433 | 10 570 | 9 890 |
| Briquettes | tonnes | 159 991 | 154 033 | 178 993 | 95 446 | 110 971 |
| Cobalt | | | | | | |
| Metal | tonnes | 2 408 | 2 349 | 2 568 | 2 602 | 2 990 |
| Oxides | tonnes | 301 | 346 | 439 | 448 | 542 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 1 034 722 | 1 037 247 | 880 332 | 1 141 843 | 1 149 088 |
| Matte & cement | tonnes | 3 070 | 2 389 | 33 896 | 15 085 | 25 931 |
| Unwrought, unrefined | tonnes | 26 579 | 38 455 | 17 319 | 11 635 | 36 671 |
| Unwrought, refined | tonnes | 527 947 | 459 451 | 516 590 | 584 852 | 624 688 |
| Unwrought alloys | tonnes | 35 661 | 26 887 | 38 410 | 24 066 | 26 657 |
| Scrap | tonnes | 390 731 | 438 312 | 379 726 | 426 995 | 432 147 |
| Diamond | | | | | | |
| Gem, cut | carats | 476 717 | 556 534 | 431 612 | 481 924 | 439 171 |
| Industrial | carats | 2 278 364 | 1 074 120 | 454 003 | 762 967 | 1 572 864 |
| Dust | carats | 67 250 000 | 49 500 000 | 69 000 000 | 82 500 000 | 38 500 000 |
| Diatomite | tonnes | 35 286 | 34 820 | 43 406 | 48 644 | 40 224 |
| Feldspar | tonnes | 51 965 | 43 033 | 50 809 | 70 064 | 101 931 |
| Fluorspar | tonnes | 266 764 | 272 913 | 234 067 | 302 071 | 264 896 |
| Gold | | | | | | |
| Metal | kilograms | 71 600 | 44 400 | 40 100 | 49 800 | 56 500 |
| Waste & scrap | kilograms | 1 583 000 | 2 021 200 | 1 153 500 | 1 375 800 | 1 923 600 |
| Graphite | tonnes | 49 720 | 42 706 | 41 161 | 53 602 | 55 843 |
| Gypsum | | | | | | |
| Crude | tonnes | 225 631 | 186 338 | 100 269 | 102 596 | 66 590 |
| Calcined | tonnes | 34 767 | 59 707 | 91 143 | 116 628 | 73 647 |
| Iodine | kilograms | 1 752 800 | 1 208 000 | 1 318 400 | 1 422 800 | 1 302 300 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 40 094 653 | 44 297 518 | 33 876 167 | 43 317 039 | 39 061 160 |
| Burnt pyrites | tonnes | 55 380 | 44 838 | 56 249 | 37 194 | 20 496 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 280 829 | 229 592 | 221 451 | 342 152 | 320 481 |
| Sponge & powder | tonnes | 288 427 | 80 690 | 142 967 | 180 615 | 156 048 |
| Ferro-chrome | tonnes | 381 746 | 383 712 | 478 203 | 440 993 | 454 703 |
| Ferro-silico-chrome | tonnes | 6 087 | 2 740 | 8 354 | 11 367 | 1 429 |
| Ferro-silico-magnesium | tonnes | 12 538 | 12 651 | 1 103 | 1 722 | 6 831 |
| Ferro-manganese | tonnes | 198 415 | 183 336 | 178 917 | 175 176 | 170 967 |
| Ferro-silico-manganese | tonnes | 130 975 | 147 113 | 144 637 | 172 164 | 172 967 |
| Ferro-molybdenum | tonnes | 11 104 | 12 126 | 10 369 | 13 214 | 15 594 |
| Ferro-nickel | tonnes | 80 666 | 89 782 | 82 618 | 90 614 | 157 091 |
| Ferro-niobium | tonnes | 3 268 | 3 746 | 3 197 | 3 864 | 4 361 |
| Ferro-phosphorus | tonnes | 5 285 | 5 807 | 4 728 | 4 131 | 4 985 |
| Ferro-silicon | tonnes | 209 195 | 195 233 | 231 346 | 237 700 | 238 120 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 8 310 | 11 188 | 8 862 | 6 845 | 10 302 |
| Ferro-tungsten & Fe-Si-W | tonnes | 561 | 498 | 486 | 400 | 600 |
| Ferro-vanadium | tonnes | 6 832 | 4 767 | 5 471 | 4 006 | 4 843 |
| Other ferro-alloys | tonnes | 33 594 | 43 225 | 25 367 | 22 754 | 25 139 |
| Silicon metal | tonnes | 94 338 | 108 062 | 120 821 | 130 408 | 156 690 |
| Ingots, blooms, billets | tonnes | 1 310 471 | 1 160 168 | 1 306 210 | 1 945 817 | 2 331 264 |
| Scrap | tonnes | 3 560 264 | 3 804 881 | 4 364 130 | 5 411 710 | 5 026 286 |

Germany

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-------------|-------------|-------------|-------------|-------------|
| Kaolin | tonnes | 749 260 | 750 621 | 771 902 | 774 307 | 803 001 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 267 848 | 228 055 | 193 156 | 202 309 | 171 533 |
| Unwrought | tonnes | 189 697 | 158 048 | 159 860 | 112 975 | 108 533 |
| Scrap | tonnes | 19 056 | 19 472 | 9 075 | 11 757 | 15 419 |
| Lithium | | | | | | |
| Oxides | tonnes | 5 100 | 3 198 | 4 405 | 3 699 | 4 209 |
| Carbonate | tonnes | 4 187 | 4 825 | 6 018 | 7 189 | 8 101 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 16 285 | 19 665 | 7 724 | 4 684 | 6 353 |
| Magnesia | tonnes | 451 522 | 453 680 | 348 042 | 348 766 | 515 089 |
| Manganese | | | | | | |
| Ores & concentrates (a) | tonnes | 7 380 | 6 629 | 6 917 | 8 034 | 7 645 |
| Metal | tonnes | 45 296 | 45 208 | 21 229 | 22 435 | 29 449 |
| Mercury | kilograms | 68 300 | 19 900 | 39 500 | 80 600 | 36 200 |
| Mica | | | | | | |
| Unmanufactured | tonnes | 387 | 227 | 205 | 237 | 89 |
| Ground | tonnes | 21 498 | 23 488 | 24 993 | 28 784 | 30 820 |
| Waste | tonnes | 468 | 345 | 840 | 1 212 | 1 101 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 10 814 | 8 663 | 9 800 | 12 221 | 11 537 |
| Metal | tonnes | 2 364 | 2 406 | 1 878 | 3 043 | 2 569 |
| Oxides | tonnes | 318 | 397 | 545 | 703 | 725 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 9 525 | 23 006 | 4 030 | 7 264 | 6 902 |
| Unwrought | tonnes | 81 674 | 84 677 | 72 571 | 72 788 | 87 939 |
| Unwrought alloys | tonnes | 1 660 | 1 625 | 1 933 | 1 646 | 2 182 |
| Scrap | tonnes | 9 254 | 11 197 | 10 889 | 11 347 | 11 672 |
| Oxides | tonnes | 590 | 668 | 563 | 517 | 502 |
| Crude petroleum | tonnes | 104 631 624 | 104 331 841 | 107 268 878 | 112 096 299 | 113 067 864 |
| Phosphates | tonnes | 155 278 | 167 297 | 120 231 | 148 082 | 104 335 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 39 800 | 34 300 | 44 800 | 39 600 | 58 400 |
| Palladium | kilograms | 25 200 | 45 000 | 31 600 | 20 700 | 56 000 |
| Other platinum metals | kilograms | 4 600 | 5 600 | 6 100 | 6 400 | 9 100 |
| Waste & scrap | kilograms | 5 274 800 | 4 500 100 | 3 837 500 | 3 713 700 | 6 574 600 |
| Potash | | | | | | |
| Chloride | tonnes | 86 916 | 89 067 | 85 597 | 97 924 | 75 483 |
| Other potassic fertilisers | tonnes | 5 724 | 6 206 | 5 810 | 4 996 | 10 029 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 1 351 | 1 208 | 1 115 | 1 082 | 1 082 |
| Other rare earth compounds | tonnes | 7 555 | 7 811 | 7 810 | 7 776 | 6 961 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 27 | 15 | ... | 214 | 6 |
| Metals | tonnes | 564 | 218 | 358 | 285 | 402 |
| Salt | tonnes | 1 824 730 | 2 391 447 | 2 366 521 | 2 467 276 | 2 558 898 |
| Sillimanite | tonnes | 56 821 | 62 654 | 63 602 | 60 782 | 58 047 |
| Silver | | | | | | |
| Metal | kilograms | 1 894 000 | 1 844 300 | 2 185 300 | 1 434 200 | 1 861 800 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 77 260 | 51 479 | 42 170 | 53 264 | 62 686 |
| Sulphur | tonnes | 31 498 | 31 481 | 45 962 | 56 272 | 46 127 |
| Sulphur, sublimed & precipitated | tonnes | 1 837 | 1 121 | 1 448 | 12 782 | 4 389 |
| Talc | tonnes | 244 678 | 263 988 | 307 374 | 352 177 | 376 618 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 259 | 274 | 239 | 281 | 164 |
| Tin | | | | | | |
| Unwrought | tonnes | 23 984 | 20 524 | 20 904 | 21 258 | 20 438 |
| Unwrought alloys | tonnes | 847 | 744 | 381 | 453 | 554 |
| Scrap | tonnes | 681 | 400 | 505 | 408 | 506 |
| Titanium | | | | | | |
| Ilmenite | tonnes | 272 849 | 307 791 | 349 819 | 315 214 | 333 603 |
| Other titanium minerals | tonnes | 132 952 | 131 844 | 175 660 | 225 849 | 224 675 |
| Titanium slag | tonnes | 137 542 | 52 787 | 41 319 | — | — |
| Metal | tonnes | 9 774 | 10 532 | 10 044 | 14 756 | 15 978 |
| Oxides | tonnes | 189 674 | 192 414 | 211 539 | 237 464 | 240 554 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|---------|---------|---------|---------|
| Tungsten | | | | | | |
| Ores & concentrates | tonnes | 378 | 129 | 195 | 389 | 493 |
| Metal | tonnes | 4 914 | 3 024 | 4 874 | 4 976 | 5 515 |
| Carbide | tonnes | 1 664 | 1 103 | 1 419 | 1 520 | 1 802 |
| Vanadium | | | | | | |
| Pentoxide | tonnes | 657 | 538 | 802 | 648 | 741 |
| Metal | tonnes | 60 | 88 | 106 | 159 | 193 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 316 009 | 319 996 | 340 244 | 480 355 | 401 829 |
| Unwrought | tonnes | 261 517 | 231 495 | 253 892 | 248 654 | 245 794 |
| Unwrought alloys | tonnes | 79 743 | 77 600 | 100 172 | 83 556 | 76 981 |
| Scrap | tonnes | 21 487 | 34 083 | 26 647 | 23 997 | 22 480 |
| Zirconium | | | | | | |
| Concentrates (b) | tonnes | 82 728 | 76 921 | 85 178 | 80 328 | 79 729 |
| Metal | tonnes | 409 | 456 | 632 | 516 | 503 |

Note(s):-

- (a) Including manganiferous Iron ore
- (b) Including niobium and tantalum concentrates

Greece

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|------------|-------------|----------------|----------------|----------------|
| Bauxite | tonnes | 1 903 280 | 2 492 000 | 2 418 000 | 2 396 065 | 2 441 443 |
| Alumina | tonnes (Al_2O_3 content) | 463 000 | 490 000 | 496 000 | 514 000 | 511 000 |
| Primary aluminium | tonnes | 164 000 | 165 262 | 167 797 | 166 634 | 165 300 |
| Asbestos | tonnes | *1 000 | — | *13 000 | *4 000 | — |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 1 258 872 | 1 056 598 | 1 156 642 | 1 030 556 | 1 124 795 |
| Cement clinker | tonnes | 13 210 781 | 8 947 394 | ... | ... | ... |
| Cement, finished | tonnes | 15 562 654 | *15 500 000 | (b) 17 546 281 | (b) 14 761 437 | (b) 14 830 944 |
| Coal | | | | | | |
| Lignite | tonnes | 66 621 437 | 71 087 609 | 69 410 756 | 71 237 228 | 71 700 000 |
| Feldspar | tonnes | 126 400 | 124 100 | 102 800 | 88 274 | 100 586 |
| Gypsum | tonnes | 808 890 | 890 148 | 731 785 | 856 606 | 865 216 |
| Crude steel | tonnes | 1 281 000 | 1 835 000 | 1 701 000 | 1 967 000 | 2 266 000 |
| Ferro-alloys | | | | | | |
| Ferro-nickel | tonnes | 88 755 | 96 000 | 90 000 | 91 000 | 96 000 |
| Kaolin | tonnes | 60 075 | 57 885 | 59 680 | 53 438 | 49 912 |
| Lead, mine | tonnes (metal content) | 26 588 | 29 300 | 2 000 | — | 3 000 |
| Lead, refined | tonnes | *6 000 | *6 000 | *6 000 | *6 000 | *6 000 |
| Magnesite | tonnes | 442 800 | 553 700 | 542 800 | 552 300 | 471 000 |
| Nickel, mine | tonnes (metal content) | 20 742 | 22 700 | 19 100 | 19 000 | 20 400 |
| Nickel, smelter/refinery | tonnes | 17 675 | 19 230 | 18 000 | 18 116 | 19 235 |
| Perlite | tonnes | 840 660 | 838 997 | 1 079 036 | 1 053 388 | *1 100 000 |
| Crude petroleum | tonnes | 293 000 | 207 000 | 162 000 | 132 890 | 100 678 |
| Natural gas | million m ³ | 32 | 36 | 27 | 23 | 16 |
| Salt | tonnes | 208 776 | 126 118 | 192 161 | 187 522 | 198 024 |
| Silver, mine | kilograms (metal content) | 62 400 | 74 800 | 7 000 | — | 6 000 |
| Sulphur and pyrites | | | | | | |
| Recovered (a) | tonnes (sulphur content) | 153 000 | 157 000 | 162 000 | 160 000 | 162 000 |
| Talc | tonnes | 2 073 | 670 | 500 | 200 | 250 |
| Zinc, mine | tonnes (metal content) | 31 737 | 35 000 | 3 000 | — | 4 000 |

Note(s):-

(1) Greece is believed to produce gold

- (a) From petroleum refining and/or natural gas
 (b) Portland cement, excluding white cement

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 33 971 | 18 672 | 12 670 | 108 042 | 43 306 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 567 470 | 535 074 | 701 911 | 925 282 | 1 136 505 |
| Alumina | tonnes | 279 120 | 327 476 | 358 955 | 404 852 | 439 374 |
| Alumina hydrate | tonnes | 34 493 | 12 261 | 11 568 | 3 760 | 2 944 |
| Unwrought | tonnes | 6 368 | 56 730 | 58 714 | 61 846 | 60 964 |
| Unwrought alloys | tonnes | 9 457 | 6 142 | 8 880 | 8 597 | 15 017 |
| Scrap | tonnes | 9 444 | 12 794 | 10 731 | 13 777 | 15 205 |
| Antimony | | | | | | |
| Metal | tonnes | 54 | 22 | 49 | 3 | 141 |
| Asbestos | tonnes | 252 | 29 | 12 576 | 4 256 | — |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 80 669 | 25 969 | 27 395 | 15 612 | 1 283 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 549 377 | 400 700 | 742 540 | 257 136 | 304 750 |
| Portland cement | tonnes | 4 165 718 | 2 312 090 | 2 507 359 | 2 679 607 | 3 502 085 |
| Other cement | tonnes | 221 294 | 142 068 | 110 674 | 170 640 | 242 957 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 5 067 | ... | ... | 21 | 249 |
| Coal | | | | | | |
| Briquettes | tonnes | 404 | 40 046 | 71 510 | 67 701 | 51 752 |
| Copper | | | | | | |
| Scrap | tonnes | 6 558 | 6 520 | 9 460 | 8 517 | 15 126 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|--------|---------|---------|---------|
| Feldspar | tonnes | 67 | 16 764 | 25 176 | 8 515 | 4 755 |
| Gold | | | | | | |
| Metal | kilograms | 219 | 509 | 4 714 | 15 | 3 |
| Gypsum | | | | | | |
| Crude | tonnes | 56 967 | 44 953 | 112 510 | 106 082 | 88 187 |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-alloys | tonnes | 10 175 | 7 976 | 1 742 | 5 528 | 1 044 |
| Ingots, blooms, billets | tonnes | 5 083 | 1 157 | 2 908 | 64 105 | 48 |
| Scrap | tonnes | 47 721 | 39 806 | 56 047 | 59 502 | 37 164 |
| Kaolin | tonnes | 723 | 884 | 976 | 131 | 129 |
| Lead | | | | | | |
| Unwrought | tonnes | 6 127 | 1 712 | 107 | ... | 4 017 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 18 555 | 35 594 | 40 | — | — |
| Magnesia | tonnes | 128 124 | 94 668 | 65 673 | 130 910 | 140 083 |
| Mica | tonnes | 121 | 179 | 4 239 | 2 769 | 5 653 |
| Crude petroleum | tonnes | 596 613 | 4 | — | — | — |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 451 | 2 119 | 2 107 | 4 083 | 2 894 |
| Salt | tonnes | 34 429 | 36 450 | 42 976 | 44 664 | 50 390 |
| Silver | | | | | | |
| Metal | kilograms | 215 | 71 | 351 | 3 299 | 152 |
| Talc | tonnes | 31 989 | 1 853 | 990 | 2 566 | 3 479 |
| Titanium | | | | | | |
| Oxides | tonnes | 1 380 | 1 412 | 1 624 | 1 835 | 2 373 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 57 166 | 65 084 | 0 | 0 | 3 276 |
| Unwrought (a) | tonnes | 82 848 | 671 | 1 076 | 709 | 334 |
| Scrap | tonnes | 120 | 172 | 683 | 709 | 517 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 29 123 | 105 277 | 324 882 | 199 144 | 22 026 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 252 246 | 246 155 | 375 275 | 247 358 | 206 870 |
| Alumina | tonnes | 3 711 | 952 | 889 | 905 | 1 049 |
| Unwrought | tonnes | 78 683 | 79 463 | 98 093 | 116 074 | 121 266 |
| Unwrought alloys | tonnes | 44 151 | 39 444 | 46 193 | 51 522 | 68 958 |
| Scrap | tonnes | 19 148 | 17 329 | 15 127 | 16 631 | 18 083 |
| Antimony | | | | | | |
| Metal | tonnes | 98 | 40 | 40 | 46 | 24 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 15 | 31 | 16 | 21 | 35 |
| Asbestos | tonnes | 1 016 | 1 988 | 91 | — | ... |
| Barytes | tonnes | 1 657 | 839 | 791 | 858 | 996 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 3 654 | 3 639 | 14 280 | 8 902 | 22 164 |
| Fuller's earth | tonnes | 362 | 1 068 | 898 | 633 | 844 |
| Bismuth | | | | | | |
| Metal | tonnes | 8 | 3 | 17 | 23 | 6 |
| Cement | | | | | | |
| Portland cement | tonnes | 79 052 | 56 424 | 302 | 1 754 | 425 |
| Other cement | tonnes | 2 989 | 2 628 | 3 322 | 3 497 | 4 548 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 231 | 360 | 218 | 122 | 477 |
| Coal | | | | | | |
| Anthracite | tonnes | 22 618 | 47 356 | 51 753 | 37 633 | 35 475 |
| Other coal | tonnes | 1 334 625 | 238 619 | 803 239 | 753 949 | 724 600 |

Greece

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Cobalt | | | | | | |
| Metal | tonnes | 33 | 34 | 30 | 89 | 31 |
| Copper | | | | | | |
| Unwrought | tonnes | 129 818 | 126 027 | 107 425 | 120 088 | 90 557 |
| Unwrought alloys | tonnes | 590 | 699 | 843 | 550 | 488 |
| Scrap | tonnes | 2 627 | 2 672 | 1 979 | 1 864 | 930 |
| Diamond | | | | | | |
| Unsorted | carats | £223 000 | £367 000 | £340 000 | £625 000 | £597 000 |
| Gem, rough | carats | £6 000 | £83 000 | £166 000 | £145 000 | £357 000 |
| Gem, cut | carats | £1 824 000 | £1 437 000 | £1 130 000 | £1 701 000 | £1 893 000 |
| Industrial | carats | £58 000 | £220 000 | £456 000 | £771 000 | £959 000 |
| Dust | carats | 6 825 000 | 9 520 000 | 6 205 000 | 8 390 000 | ... |
| Diatomite | tonnes | 504 | 529 | 556 | 610 | 645 |
| Feldspar | tonnes | 7 466 | 4 599 | 5 216 | 499 | 3 032 |
| Fluorspar | tonnes | 11 210 | 12 582 | 10 579 | 20 720 | 10 681 |
| Gold | | | | | | |
| Metal | kilograms | 757 | 1 497 | 8 276 | 37 484 | 56 572 |
| Waste & scrap | kilograms | 5 149 | 1 126 | 79 288 | — | ... |
| Graphite | tonnes | 54 | 75 | 77 | 127 | 91 |
| Gypsum | | | | | | |
| Crude | tonnes | 504 | 350 | 362 | 826 | 801 |
| Calcined | tonnes | 26 386 | 1 501 | 1 361 | 13 614 | 5 270 |
| Iodine | kilograms | 1 766 | 1 000 | 2 593 | 1 673 | 2 247 |
| Iron ore | | | | | | |
| Burnt pyrites | tonnes | 125 242 | 58 666 | 132 | 4 601 | 180 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 14 682 | 15 085 | 10 844 | 15 494 | 6 415 |
| Ferro-manganese | tonnes | 2 188 | 1 695 | 2 454 | 2 604 | 1 293 |
| Ferro-silico-manganese | tonnes | 15 462 | 24 110 | 19 505 | 23 808 | 31 657 |
| Ferro-silicon | tonnes | 11 059 | 3 990 | 7 353 | 7 899 | 6 339 |
| Other ferro-alloys | tonnes | 163 | 642 | 540 | 1 022 | 1 148 |
| Silicon metal | tonnes | 873 | 856 | 1 140 | 1 055 | 1 126 |
| Ingots, blooms, billets | tonnes | 505 889 | 148 798 | 211 021 | 229 854 | 90 412 |
| Scrap | tonnes | 776 523 | 1 179 017 | 1 138 900 | 1 178 451 | 1 545 912 |
| Kaolin | tonnes | 23 933 | 43 586 | 52 833 | 56 380 | 54 293 |
| Lead | | | | | | |
| Unwrought | tonnes | 5 970 | 5 309 | 4 633 | 28 460 | 5 112 |
| Scrap | tonnes | 882 | 3 349 | 5 496 | 1 284 | 85 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 13 087 | 19 308 | 23 470 | 20 579 | 14 250 |
| Magnesia | tonnes | 11 507 | 7 442 | 10 427 | 11 985 | 17 232 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 22 329 | 2 | 24 985 | 1 | 22 001 |
| Metal | tonnes | 681 | 1 289 | 389 | 1 510 | 905 |
| Mercury | kilograms | 125 335 | 291 | 11 617 | 187 | 954 |
| Mica | tonnes | 48 | 114 | 203 | 94 | 131 |
| Molybdenum | | | | | | |
| Metal | tonnes | 12 | 21 | 1 | 13 | 2 |
| Nickel | | | | | | |
| Ores & concentrates | tonnes | 31 111 | ... | 10 480 | 6 | 29 153 |
| Unwrought | tonnes | 126 | 67 | 60 | 61 | 56 |
| Crude petroleum | tonnes | 20 112 238 | 18 653 052 | 18 976 807 | 18 390 500 | 18 926 138 |
| Phosphates | tonnes | 328 110 | 338 443 | 336 893 | 364 398 | 378 931 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 1 001 | 449 | 156 | 179 | 181 |
| Potash | | | | | | |
| Sulphate | tonnes | 25 433 | 59 315 | 55 208 | 92 816 | 28 334 |
| Chloride | tonnes | 27 415 | 32 834 | 36 469 | 29 191 | 46 667 |
| Other potassic fertilisers | tonnes | 2 251 | 3 057 | 5 256 | 6 411 | 4 387 |
| Rare earths | | | | | | |
| Metals | tonnes | ... | ... | ... | ... | 138 |
| Salt | tonnes | 98 438 | 102 103 | 218 991 | 173 729 | 162 669 |
| Silver | | | | | | |
| Metal | kilograms | 25 686 | 38 516 | 49 225 | 95 318 | ... |
| Sulphur and pyrites | | | | | | |
| Sulphur, crude | tonnes | 90 126 | 90 577 | 106 897 | 83 711 | 68 761 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------|--------|--------|--------|--------|--------|--------|
| Talc | tonnes | 6 528 | 4 206 | 5 316 | 10 061 | 9 937 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 503 | 382 | 598 | 671 | 615 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 529 | 816 | 313 | 563 | 528 |
| Oxides | tonnes | 18 389 | 17 646 | 22 801 | 27 241 | 25 592 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 31 737 | 26 052 | 24 982 | 29 255 | 20 110 |

Note(s):-

(a) Including alloys

Hungary

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 32 252 000 | 35 407 000 | 40 530 145 | 46 354 829 | 69 027 609 |
| Crushed rock | tonnes | 8 621 080 | 9 792 782 | 10 090 547 | 13 037 471 | 15 078 440 |
| Bauxite | tonnes | 1 000 044 | 720 000 | 665 904 | 646 726 | 535 337 |
| Alumina | tonnes (Al_2O_3 content) | 330 000 | 293 700 | 300 000 | 304 000 | *300 000 |
| Primary aluminium | tonnes | 34 600 | 35 294 | 34 000 | 34 300 | 31 000 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 30 441 | 3 700 | 87 200 | 9 300 | 4 900 |
| Cement, finished | tonnes | 3 452 000 | 3 510 000 | 3 573 000 | 3 349 000 | 3 371 000 |
| Coal | | | | | | |
| Bituminous | tonnes | 635 200 | 660 000 | 667 126 | 280 000 | — |
| Lignite | tonnes | 8 043 062 | 7 573 971 | 8 564 000 | 8 470 258 | 8 153 968 |
| Brown coal | tonnes | 5 392 000 | 4 530 000 | 4 128 000 | 2 500 000 | 1 426 000 |
| Diatomite | tonnes | 1 323 | 1 656 | 1 770 | 1 640 | 2 190 |
| Gypsum (a) | tonnes | 231 000 | 108 000 | 62 000 | 55 000 | 19 000 |
| Pig iron | tonnes | 1 225 714 | 1 334 000 | 1 332 000 | 1 350 000 | 1 329 000 |
| Crude steel | tonnes | 2 064 507 | 2 138 146 | 2 044 526 | 1 944 017 | 2 004 250 |
| Kaolin | tonnes | ... | ... | ... | 3 300 | 1 300 |
| Manganese ore | tonnes | 43 000 | 43 000 | 48 000 | 49 000 | 50 000 |
| Perlite | tonnes | 89 900 | 72 196 | 95 100 | 65 000 | 69 900 |
| Crude petroleum | tonnes | 1 058 060 | 1 049 770 | 1 134 245 | 1 076 844 | 947 542 |
| Natural gas | million m ³ | 3 286 | 3 130 | 3 145 | 3 112 | 3 041 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | 43 000 | 52 000 | 51 000 | 35 000 | 65 000 |

Note(s):-

- (1) Hungary is believed to produce antimony and arsenic
(2) In addition to the countries producing sillimanite minerals, synthetic mullite is known to be produced in Hungary

(a) Including anhydrite

(b) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 590 064 | 743 157 | 598 056 | 729 270 | 736 586 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 258 945 | 241 441 | 216 200 | 250 978 | 218 696 |
| Unwrought (a) | tonnes | 10 894 | 11 730 | 16 231 | 25 475 | 22 635 |
| Scrap | tonnes | 29 656 | 24 428 | 27 022 | 38 684 | 41 192 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 5 784 | 2 118 | 1 030 | 897 | 442 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 44 | 125 482 | 41 006 | 78 590 | 27 328 |
| Portland cement | tonnes | 492 397 | 433 217 | 440 285 | 244 276 | 274 262 |
| Coal | | | | | | |
| Lignite | tonnes | ... | ... | 13 966 | 81 047 | 366 132 |
| Copper | | | | | | |
| Scrap | tonnes | 19 952 | 17 867 | 27 405 | 31 741 | 34 861 |
| Diatomite | tonnes | 264 | 308 | 284 | 452 | 12 |
| Gold | | | | | | |
| Metal | kilograms | 1 110 | 928 | ... | 826 | 200 |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-alloys | tonnes | 651 | 694 | 436 | 701 | 234 |
| Ingots, blooms, billets | tonnes | 47 954 | 87 994 | 32 452 | 24 042 | 24 923 |
| Scrap | tonnes | 462 209 | 553 847 | 618 827 | 887 069 | 761 464 |
| Kaolin | tonnes | 3 121 | 3 539 | 2 388 | 7 180 | 6 252 |
| Lead | | | | | | |
| Scrap | tonnes | 1 944 | 1 421 | 1 237 | 2 377 | 2 987 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 6 617 | 221 | 61 | 2 512 | 1 253 |
| Salt | tonnes | 232 | 629 | 2 987 | 576 | 49 578 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|-----------|-------|--------|-------|--------|--------|
| Sillimanite | | | | | | |
| Mullite | tonnes | ... | 2 728 | 3 869 | 6 108 | 6 922 |
| Silver | | | | | | |
| Metal | kilograms | 1 204 | 962 | 1 300 | 2 516 | 300 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | ... | 28 389 | ... | 22 607 | 36 472 |
| Talc | tonnes | ... | 15 | 314 | 1 533 | — |
| Tungsten | | | | | | |
| Metal | tonnes | 53 | 74 | 56 | 64 | 24 |
| Zinc | | | | | | |
| Unwrought | tonnes | 1 032 | 997 | 921 | 3 798 | 415 |
| Scrap | tonnes | 2 837 | 2 202 | 2 794 | 3 571 | 3 938 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 57 443 | 241 929 | 104 705 | 254 800 | 446 504 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 88 950 | 116 037 | 164 930 | 189 528 | 279 660 |
| Alumina | tonnes | 2 609 | 3 188 | 17 819 | 8 751 | 15 638 |
| Unwrought | tonnes | 175 645 | 199 392 | 199 978 | 337 995 | 109 382 |
| Unwrought alloys | tonnes | 27 701 | 25 328 | 27 925 | 32 021 | 54 362 |
| Scrap | tonnes | 7 016 | 17 071 | 16 764 | 13 111 | 17 164 |
| Antimony | | | | | | |
| Oxide | tonnes | 180 | 178 | 150 | 186 | 180 |
| Asbestos | tonnes | 2 167 | 740 | 574 | ... | ... |
| Barytes | tonnes | 1 455 | 1 878 | 1 704 | 3 453 | ... |
| Bentonite and fuller's earth | tonnes | 3 797 | 4 440 | 5 914 | 5 214 | 2 369 |
| Bromine | kilograms | 17 687 | 26 838 | 24 921 | 5 636 | 12 000 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 549 | 651 | 593 | 367 | 388 |
| Metal | tonnes | 85 | 65 | 82 | 68 | 0 |
| Cement | | | | | | |
| Portland cement | tonnes | 401 168 | 303 249 | 342 107 | 451 613 | 565 366 |
| Other cement | tonnes | 174 362 | 466 700 | 536 445 | 579 735 | 508 067 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | ... | 874 393 | 1 108 289 | 1 347 232 | 498 369 |
| Brown coal | tonnes | 247 929 | 259 129 | 311 845 | 403 297 | 710 417 |
| Copper | | | | | | |
| Unwrought | tonnes | 19 937 | 18 994 | 14 327 | 11 365 | 3 269 |
| Scrap | tonnes | 5 370 | 3 483 | 502 | 512 | 500 |
| Diamond | | | | | | |
| Dust | carats | 1 269 915 | ... | ... | ... | ... |
| Diatomite | tonnes | 2 845 | 1 633 | 1 593 | 1 390 | 1 158 |
| Feldspar | tonnes | 19 213 | 20 250 | 19 131 | 19 205 | 20 184 |
| Fluorspar | tonnes | 6 006 | 3 626 | 3 907 | 4 366 | ... |
| Gold | | | | | | |
| Metal | kilograms | 194 | 127 | ... | ... | 1 000 |
| Graphite | tonnes | 474 | 528 | 517 | 234 | 191 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 48 842 | 53 147 | 59 741 | 64 726 | 60 336 |
| Iron ore | tonnes | 1 702 510 | 1 718 394 | 1 864 033 | 1 063 931 | 1 210 543 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 23 983 | 23 881 | 19 312 | 14 429 | 8 808 |
| Ferro-manganese | tonnes | 10 441 | 10 908 | 11 503 | 9 152 | 2 898 |
| Ferro-silicon | tonnes | 5 736 | 5 173 | 5 530 | 5 295 | 5 013 |
| Other ferro-alloys | tonnes | 5 764 | 6 406 | 4 089 | 4 376 | 5 417 |
| Silicon metal | tonnes | 2 772 | 3 567 | 4 686 | 5 196 | 2 260 |
| Ingots, blooms, billets | tonnes | 168 833 | 82 919 | 91 664 | 82 336 | 102 861 |
| Scrap | tonnes | 111 440 | 135 594 | 112 463 | 62 753 | 45 860 |

Hungary

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|------------|------------|------------|------------|---------|
| Kaolin | tonnes | 34 000 | 30 130 | 28 472 | 23 417 | 33 075 |
| Lead | | | | | | |
| Unwrought | tonnes | 10 117 | 6 552 | 7 148 | 4 545 | 5 028 |
| Magnesite and magnesia | tonnes | 12 032 | 32 296 | 10 463 | 7 003 | 6 251 |
| Manganese | | | | | | |
| Metal | tonnes | 476 | 677 | 568 | 111 | 889 |
| Molybdenum | | | | | | |
| Metal | tonnes | 114 | 105 | 121 | 129 | 129 |
| Crude petroleum | tonnes | ... | 5 029 814 | ... | 5 001 714 | — |
| Phosphates | tonnes | 14 793 | 14 730 | 9 140 | ... | 4 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 117 | 140 | 274 | 168 | 300 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 112 995 | 124 330 | 121 815 | 143 465 | 141 013 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 216 | 202 | 114 | 158 | ... |
| Salt | tonnes | 395 106 | 468 704 | 557 050 | 486 695 | 592 522 |
| Sillimanite | tonnes | ... | 1 370 | 2 045 | 2 396 | 4 519 |
| Silver | | | | | | |
| Metal | kilograms | 19 541 | 15 444 | 17 695 | 33 178 | 15 200 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 4 339 | 1 853 | 1 426 | 1 088 | 1 079 |
| Sulphur, sublimed & precipitated | tonnes | 287 | 134 | 67 | 296 | 362 |
| Talc | tonnes | 9 698 | 9 576 | 10 070 | 9 178 | ... |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 292 | 219 | 91 | 155 | 192 |
| Titanium | | | | | | |
| Metal | tonnes | 49 | 215 | 367 | 387 | 107 |
| Oxides | tonnes | 6 976 | 7 941 | 8 247 | 8 677 | 7 523 |
| Zinc | | | | | | |
| Unwrought | tonnes | (a) 23 615 | (a) 23 295 | (a) 16 900 | (a) 15 779 | 14 529 |
| Unwrought alloys | tonnes | ... | ... | ... | ... | 4 326 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite

Irish Republic

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---|------------|------------|------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 33 000 000 | 34 000 000 | 40 000 000 | *40 000 000 | *40 000 000 |
| Crushed rock | tonnes | 77 000 000 | 78 000 000 | 60 000 000 | *60 000 000 | *94 000 000 |
| Alumina | tonnes (Al_2O_3 content) | 1 448 730 | 1 400 000 | 1 500 000 | *1 500 000 | *1 800 000 |
| Cement, finished | tonnes | 2 600 000 | 2 500 000 | 2 500 000 | *2 500 000 | *2 500 000 |
| Gypsum | tonnes | *500 000 | *500 000 | *600 000 | *650 000 | *700 000 |
| Crude steel | tonnes | 150 000 | — | — | — | — |
| Lead, mine | tonnes (metal content) | 44 500 | 41 700 | 50 300 | 63 800 | 72 200 |
| Lead, refined | tonnes | 9 800 | 6 600 | 7 800 | 19 600 | 22 500 |
| Natural gas | million m ³ | 816 | 839 | 673 | 848 | 570 |
| Silver, mine | kilograms (metal content) | 8 700 | 7 500 | 8 500 | 5 200 | 10 500 |
| Zinc, mine | tonnes (metal content) | 298 100 | 276 700 | 419 000 | 438 300 | 445 400 |

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 380 067 | 703 054 | 563 286 | 135 579 | 62 729 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 1 891 293 | 1 564 481 | 2 405 797 | 1 388 723 | 1 459 036 |
| Alumina hydrate | tonnes | 20 746 | 22 656 | 51 149 | 44 645 | 85 062 |
| Unwrought alloys | tonnes | 3 287 | 4 389 | 4 569 | 3 776 | 3 542 |
| Scrap | tonnes | 14 470 | 19 240 | 12 307 | 15 367 | 16 475 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 6 447 | ... | 2 650 | ... | ... |
| Portland cement | tonnes | 220 581 | 263 254 | 439 876 | 1 133 469 | 942 655 |
| Coal | | | | | | |
| Briquettes | tonnes | 20 787 | 20 130 | 21 151 | 18 049 | 13 103 |
| Cobalt | | | | | | |
| Oxides | tonnes | 49 | 119 | 118 | 11 | — |
| Copper | | | | | | |
| Scrap | tonnes | 8 835 | 9 043 | 17 824 | 16 118 | 13 152 |
| Diamond | | | | | | |
| Gem, rough | carats | 5 525 000 | 7 285 000 | 5 040 000 | ... | ... |
| Industrial | carats | 5 140 000 | 7 120 000 | 2 275 000 | 3 395 000 | 1 610 000 |
| Gold | | | | | | |
| Metal | kilograms | £35 000 | £389 000 | £784 000 | £1 076 000 | £942 000 |
| Waste & scrap | kilograms | £3 850 000 | £1 623 000 | £1 520 000 | £1 672 000 | £1 429 000 |
| Gypsum | | | | | | |
| Crude | tonnes | 820 | 817 | 873 | 919 | 1 022 |
| Calcined | tonnes | 37 919 | 22 181 | 33 382 | 40 636 | 42 212 |
| Iodine | kilograms | 2 500 | 2 000 | 9 600 | — | 1 462 |
| Iron, steel and ferro-alloys | | | | | | |
| Scrap | tonnes | 133 287 | 228 807 | 292 971 | 347 479 | 352 028 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 58 150 | 21 069 | 56 141 | 84 115 | 92 813 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 635 | ... | 52 | 6 | ... |
| Magnesia | tonnes | 22 816 | 65 483 | 65 549 | 69 105 | 82 417 |
| Nickel | | | | | | |
| Scrap | tonnes | 674 | 701 | 664 | 797 | 641 |
| Platinum metals | | | | | | |
| Waste & scrap | kilograms | 12 292 | 22 983 | 5 544 | 13 100 | 7 900 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 182 | 64 | 107 | 85 | 14 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 142 | ... | 362 | ... | ... |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 281 | 77 | 29 | 103 | 67 |
| Scrap | tonnes | 304 | 109 | 21 | 140 | ... |

Irish Republic

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|---------|---------|---------|---------|
| Tungsten | | | | | | |
| Metal | tonnes | 96 | 38 | 41 | 72 | 963 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 381 072 | 161 452 | 439 247 | 564 018 | 522 312 |
| Scrap | tonnes | 296 | 235 | 298 | 450 | 684 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | tonnes | 989 926 | 1 121 763 | 1 036 886 | 1 269 673 | 1 444 893 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 3 493 883 | 3 732 789 | 3 418 940 | 3 740 006 | 3 606 983 |
| Alumina | tonnes | 7 768 | 7 544 | 6 718 | 6 626 | 4 252 |
| Unwrought (a) | tonnes | 11 474 | 6 750 | 6 503 | 6 603 | 4 092 |
| Scrap | tonnes | 695 | 503 | 294 | 490 | 117 |
| Antimony | | | | | | |
| Metal | tonnes | 12 | 31 | 15 | 13 | 0 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 31 | 127 | 47 | ... | 158 |
| Asbestos | tonnes | 1 | 19 | — | 475 | 2 794 |
| Barytes | tonnes | 176 | 318 | 332 | 411 | 894 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 1 064 | 966 | 869 | 2 042 | 2 658 |
| Bismuth | | | | | | |
| Metal | tonnes | 30 | 33 | 54 | 2 | 6 |
| Bromine | kilograms | 22 000 | 5 739 | 33 238 | 602 | ... |
| Cement | | | | | | |
| Cement clinkers | tonnes | 66 661 | 56 199 | 88 669 | 226 116 | 245 955 |
| Portland cement | tonnes | 430 990 | 373 759 | 259 703 | 281 044 | 335 055 |
| Other cement | tonnes | 3 092 | 2 968 | 4 105 | 9 132 | 8 958 |
| Chromium | | | | | | |
| Metal | tonnes | 26 | 19 | 27 | 25 | 40 |
| Coal | | | | | | |
| Anthracite | tonnes | 282 790 | 163 733 | 164 270 | 100 792 | 60 325 |
| Other coal | tonnes | 1 682 981 | 1 337 469 | 1 307 994 | 2 930 298 | 2 641 074 |
| Briquettes | tonnes | 42 480 | 28 105 | 46 789 | 48 348 | 35 959 |
| Cobalt | | | | | | |
| Metal | tonnes | 527 | 398 | 282 | 273 | 390 |
| Oxides | tonnes | 45 | 6 | 3 | 5 | 13 |
| Copper | | | | | | |
| Scrap | tonnes | 1 080 | 1 087 | 514 | 16 | 27 |
| Diamond | | | | | | |
| Unsorted | carats | 48 655 000 | 19 505 000 | 22 665 000 | 33 525 000 | 39 900 000 |
| Gem, rough | carats | 2 140 000 | ... | 8 225 000 | 1 815 000 | 3 815 000 |
| Gem, cut | carats | 45 300 000 | 30 805 000 | 23 370 000 | 21 175 000 | 36 975 000 |
| Industrial | carats | 46 820 000 | 95 650 000 | 3 930 000 | 26 740 000 | 30 680 000 |
| Dust | carats | £18 208 000 | £27 972 000 | £41 933 000 | £29 021 000 | £42 591 000 |
| Diatomite | tonnes | 286 | 450 | 729 | 594 | 641 |
| Gold | | | | | | |
| Metal | kilograms | £8 002 196 | £6 057 000 | £9 565 000 | £7 480 000 | £7 227 000 |
| Waste & scrap | kilograms | 6 158 | 120 | 2 322 | 4 880 | 2 567 |
| Graphite | tonnes | 108 | 541 | 248 | 288 | 177 |
| Gypsum | | | | | | |
| Crude | tonnes | 8 615 | 10 931 | 373 | 536 | 1 056 |
| Calcined | tonnes | 444 | 914 | 2 228 | 6 015 | 20 024 |
| Iodine | kilograms | 44 664 | 5 000 | 8 712 | 18 215 | 11 921 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 3 401 | 5 120 | 4 808 | 3 812 | 3 215 |
| Ferro-alloys | tonnes | 3 772 | 663 | 224 | 286 | 474 |
| Silicon metal | tonnes | 1 032 | 219 | 431 | 367 | 221 |
| Ingots, blooms, billets | tonnes | 1 203 | 1 601 | 1 291 | 1 487 | 1 637 |
| Scrap | tonnes | 26 285 | 1 420 | 786 | 1 277 | 1 137 |
| Kaolin | tonnes | 11 505 | 20 919 | 19 186 | 22 213 | 22 764 |
| Lead | | | | | | |
| Unwrought | tonnes | 24 432 | 35 376 | 28 438 | 26 896 | 30 999 |
| Scrap | tonnes | 9 163 | 9 985 | 7 798 | 18 290 | 28 530 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 108 | 1 500 | 15 449 | 25 886 | 12 653 |
| Magnesia | tonnes | 47 947 | 59 905 | 43 802 | 49 664 | 49 466 |
| Manganese | | | | | | |
| Ores & concentrates (b) | tonnes | 38 977 | 27 456 | 19 306 | 268 | 285 |
| Metal | tonnes | 49 | 23 | 9 | 5 | 5 |
| Mercury | kilograms | 2 401 | 1 008 | 11 604 | 61 | 72 |
| Mica | tonnes | 639 | 463 | 364 | 551 | 889 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 1 834 | 1 361 | 1 558 | 1 493 | 1 775 |
| Crude petroleum | tonnes | 2 475 545 | 1 112 511 | 1 378 494 | 2 128 991 | 3 226 383 |
| Phosphates | tonnes | 2 144 | 9 717 | 440 | 1 159 | 219 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 3 694 | 2 342 | 1 829 | 2 620 | 3 865 |
| Potash | | | | | | |
| Chloride | tonnes | 36 186 | 17 160 | 3 790 | 30 456 | 113 476 |
| Other potassic fertilisers | tonnes | 2 170 | 2 483 | 6 156 | 4 924 | 5 747 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 46 | 44 | 245 | 74 | 32 |
| Metals | tonnes | 66 | 63 | 64 | 4 | 14 |
| Salt | tonnes | 107 438 | 110 654 | 77 992 | 83 789 | 83 746 |
| Sillimanite | tonnes | 14 377 | 5 795 | 10 | 89 | 1 |
| Silver | | | | | | |
| Metal | kilograms | 2 940 | 2 960 | 2 247 | 2 709 | 2 386 |
| Sulphur and pyrites | | | | | | |
| Sulphur, sublimed & precipitated | tonnes | 1 281 | 194 | 898 | 1 371 | 2 327 |
| Talc | tonnes | 1 848 | 2 224 | 2 008 | 2 508 | 2 632 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 7 | 2 | 2 | 2 | 8 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 655 | 271 | 171 | 462 | 307 |
| Titanium | | | | | | |
| Oxides | tonnes | 3 931 | 5 070 | 5 095 | 5 685 | 5 059 |
| Tungsten | | | | | | |
| Metal | tonnes | 45 | 152 | 331 | 177 | 292 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 3 668 | 5 699 | 4 241 | 2 956 | 3 629 |

Note(s):-

(a) Including alloys

(b) Including manganiferous iron ore

Italy

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 215 622 251 | 200 776 836 | 212 169 204 | 176 252 243 | 206 149 140 |
| Crushed rock | tonnes | 51 224 533 | 46 512 344 | 44 562 447 | 54 195 444 | 61 639 848 |
| Alumina | tonnes (Al_2O_3 content) | 993 000 | 1 010 000 | 1 021 000 | 1 064 000 | 1 070 000 |
| Primary aluminium | tonnes | 187 500 | 190 400 | 191 400 | 195 400 | 192 900 |
| Barytes | tonnes | 10 809 | 10 215 | 12 214 | 9 608 | *10 000 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 579 029 | 463 231 | 474 475 | 437 659 | ... |
| Fuller's earth | tonnes | 19 815 | 24 595 | 250 | 300 | ... |
| Bromine | kilograms | *300 000 | *300 000 | *300 000 | *300 000 | *300 000 |
| Cadmium | tonnes | 352 | 362 | 22 | — | — |
| Cement clinker | tonnes | 30 893 082 | 30 770 167 | 32 077 055 | 33 048 546 | ... |
| Cement, finished | tonnes | 40 190 597 | 41 722 254 | 43 580 047 | 45 342 868 | *48 000 000 |
| Coal | | | | | | |
| Lignite | tonnes | 130 000 | 100 000 | ... | ... | ... |
| Copper, refined | tonnes | 30 200 | 32 400 | 26 700 | 33 600 | 32 200 |
| Feldspar | tonnes | 3 240 457 | 3 159 569 | 2 972 187 | 2 941 272 | *3 000 000 |
| Fluorspar | tonnes | 70 160 | 53 260 | 26 387 | 17 915 | ... |
| Gold, mine | kilograms (metal content) | 522 | 631 | *100 | — | — |
| Gypsum | tonnes | 1 558 882 | 1 531 477 | 1 783 903 | 1 615 287 | ... |
| Pig iron | tonnes | 10 581 000 | 9 746 000 | 10 123 000 | 10 566 000 | 11 392 000 |
| Crude steel | tonnes | 26 544 000 | 26 302 000 | 27 058 000 | 28 477 000 | 29 319 000 |
| Ferro-alloys | | | | | | |
| Ferro-manganese | tonnes | *40 000 | *40 000 | *40 000 | *40 000 | *40 000 |
| Ferro-silico-manganese | tonnes | *100 000 | *100 000 | *100 000 | *100 000 | *100 000 |
| Kaolin | tonnes | 295 263 | 174 990 | 224 755 | 246 608 | ... |
| Lead, mine | tonnes (metal content) | 2 700 | 3 200 | 2 700 | 800 | *800 |
| Lead, refined | tonnes | 226 500 | 196 000 | 214 100 | 201 600 | 211 000 |
| Manganese ore | tonnes | 803 | 867 | 763 | 714 | ... |
| Perlite | tonnes | *60 000 | *60 000 | *60 000 | *60 000 | *60 000 |
| Crude petroleum | tonnes | 4 097 000 | 5 531 000 | 5 570 000 | 5 445 000 | 6 100 000 |
| Natural gas | million m ³ | 15 242 | 14 623 | 13 885 | 12 961 | 11 977 |
| Salt | | | | | | |
| Rock salt & brine salt | tonnes | 3 301 173 | 3 342 992 | 2 922 251 | 2 876 469 | ... |
| Silver, mine | kilograms (metal content) | *1 000 | *1 000 | 200 | 100 | 100 |
| Sulphur and pyrites | | | | | | |
| Recovered (a) | tonnes (sulphur content) | 203 000 | 142 000 | 127 000 | 113 000 | 92 000 |
| Recovered (b) | tonnes (sulphur content) | 540 000 | 560 000 | 565 000 | 575 000 | 650 000 |
| Talc | tonnes | 126 868 | 125 040 | 122 849 | 138 367 | *140 000 |
| Slab zinc | tonnes | 178 600 | 175 800 | 123 100 | 118 400 | 121 200 |

Note(s):-

(1) Germanium is believed to be recovered from imported or domestic material

(a) From metal sulphide processing

(b) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 1 443 143 | 1 638 314 | 1 333 675 | 1 556 414 | 1 734 620 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 69 646 | 49 307 | 9 291 | 40 512 | 121 029 |
| Alumina | tonnes | 646 064 | 721 558 | 682 587 | 606 416 | 651 704 |
| Alumina hydrate | tonnes | 29 901 | 35 623 | 34 820 | 24 895 | 26 652 |
| Unwrought | tonnes | 2 639 | 5 986 | 3 385 | 4 203 | 8 742 |
| Unwrought alloys | tonnes | 28 817 | 35 982 | 31 082 | 43 578 | 57 573 |
| Scrap | tonnes | 19 416 | 17 707 | 20 358 | 26 630 | 35 904 |
| Antimony | | | | | | |
| Metal | tonnes | 36 | 70 | 1 | 3 | 10 |
| Oxide | tonnes | 200 | 504 | 340 | 207 | 94 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | — | — | — | — | 16 |
| Asbestos | tonnes | ... | ... | ... | ... | 20 |
| Barytes | tonnes | 390 | 2 076 | 224 | 1 951 | 505 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 209 107 | 215 834 | 221 353 | 257 596 | 245 515 |
| Bromine | kilograms | 16 000 | 2 259 | 1 296 | 505 | 1 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 739 | 377 | 239 | 54 | 18 |
| Sulphide | tonnes | 5 | 4 | 0 | — | — |
| Cement | | | | | | |
| Cement clinkers | tonnes | 99 472 | 82 835 | 55 289 | 8 965 | 19 427 |
| Portland cement | tonnes | 2 078 455 | 1 940 114 | 1 816 975 | 1 903 368 | 2 379 941 |
| Other cement | tonnes | 168 039 | 174 484 | 181 086 | 130 920 | 130 120 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 5 558 | 3 014 | 2 638 | 3 803 | 4 673 |
| Metal | tonnes | 815 | 407 | 1 993 | 4 184 | 1 070 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 54 884 | 33 141 | 17 124 | 92 227 | 66 115 |
| Cobalt | | | | | | |
| Metal | tonnes | 86 | 98 | 174 | 236 | 97 |
| Oxides | tonnes | 126 | 49 | 63 | 123 | 63 |
| Copper | | | | | | |
| Matte & cement | tonnes | 4 377 | 5 982 | 561 | 366 | ... |
| Unwrought | tonnes | 28 074 | 7 528 | 13 371 | 22 988 | 6 387 |
| Unwrought alloys | tonnes | 16 851 | 12 631 | 12 110 | 16 772 | 14 128 |
| Scrap | tonnes | 55 930 | 46 184 | 53 184 | 97 964 | 110 711 |
| Diamond | | | | | | |
| Gem, cut | carats | £15 342 000 | £15 982 000 | £21 938 000 | £26 708 000 | £30 464 000 |
| Industrial | carats | £111 000 | £607 000 | £228 000 | £565 000 | £666 000 |
| Dust | carats | 57 190 000 | 104 155 000 | 42 170 000 | 49 130 000 | 48 455 000 |
| Diatomite | tonnes | 1 776 | 1 194 | 1 217 | 1 745 | 1 138 |
| Feldspar | tonnes | 128 544 | 159 403 | 165 128 | 204 096 | 302 715 |
| Fluorspar | tonnes | 20 709 | 31 142 | 28 222 | 20 607 | 28 699 |
| Gold | | | | | | |
| Metal | kilograms | 31 299 | 32 091 | 36 047 | 44 180 | 60 480 |
| Graphite | tonnes | 199 | 313 | 222 | 625 | 274 |
| Gypsum | | | | | | |
| Crude | tonnes | 47 185 | 24 560 | 1 032 | 8 040 | 12 641 |
| Calcined | tonnes | 74 209 | 54 393 | 38 778 | 42 223 | 41 404 |
| Iodine | kilograms | 2 892 | 3 000 | 2 065 | 3 080 | 14 499 |
| Iron ore | | | | | | |
| Burnt pyrites | tonnes | 57 643 | 46 294 | 30 848 | 11 086 | 9 410 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 47 031 | 58 982 | 40 069 | 41 068 | 15 740 |
| Sponge & powder | tonnes | 2 095 | 651 | 130 | 62 | 163 |
| Ferro-chrome | tonnes | 1 843 | 9 576 | 7 290 | 8 411 | 3 753 |
| Ferro-silico-magnesium | tonnes | 10 | 2 119 | 1 673 | 3 163 | 30 |
| Ferro-manganese | tonnes | 17 472 | 5 382 | 6 322 | 8 857 | 10 380 |
| Ferro-silico-manganese | tonnes | 3 371 | 2 055 | 1 392 | 3 167 | 3 511 |
| Ferro-molybdenum | tonnes | 525 | 351 | 352 | 162 | 90 |
| Ferro-nickel | tonnes | ... | ... | ... | ... | 3 967 |
| Ferro-silicon | tonnes | 3 143 | 2 697 | 3 287 | 3 594 | 5 035 |
| Ferro-vanadium | tonnes | 1 023 | 2 873 | 817 | 63 | 3 |
| Other ferro-alloys | tonnes | 1 107 | 975 | 488 | 2 859 | 1 023 |
| Silicon metal | tonnes | 743 | 1 092 | 583 | 1 667 | 3 931 |
| Ingots, blooms, billets | tonnes | 770 001 | 786 800 | 546 474 | 402 967 | 698 402 |
| Scrap | tonnes | 151 196 | 153 190 | 173 616 | 211 385 | 185 688 |
| Kaolin | tonnes | 58 835 | 47 652 | 37 357 | 29 995 | 40 800 |
| Lead | | | | | | |
| Unwrought | tonnes | 8 646 | 20 987 | 26 711 | 28 295 | 18 244 |
| Scrap | tonnes | 2 716 | 4 792 | 5 652 | 1 262 | 2 477 |
| Lithium | | | | | | |
| Oxides | tonnes | 8 | 58 | 47 | 11 | 6 |
| Carbonate | tonnes | 87 | 138 | 162 | 206 | 269 |

Italy

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|---------|---------|---------|---------|---------|
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 2 521 | 3 170 | 2 141 | 2 868 | 3 489 |
| Magnesia | tonnes | 57 158 | 52 206 | 17 414 | 9 779 | 12 130 |
| Manganese | | | | | | |
| Metal | tonnes | 62 | 120 | 37 | 113 | 241 |
| Mercury | kilograms | 21 968 | 274 624 | 20 153 | 6 952 | 18 244 |
| Mica | tonnes | 349 | 667 | 371 | 623 | 738 |
| Molybdenum | | | | | | |
| Metal | tonnes | 98 | 57 | 250 | 171 | 132 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 2 102 | 2 701 | 2 923 | 1 637 | 1 720 |
| Scrap | tonnes | 1 057 | 552 | 351 | 644 | 1 923 |
| Crude petroleum | tonnes | 250 353 | 871 391 | 802 524 | 824 206 | 986 121 |
| Phosphates | tonnes | 794 | 513 | 475 | 4 417 | 4 883 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 31 775 | 3 546 | 10 430 | 6 277 | 6 555 |
| Platinum metals | kilograms | 6 133 | 13 337 | 8 310 | 4 207 | 6 458 |
| Waste & scrap | kilograms | 23 155 | 61 441 | 96 968 | 105 220 | 206 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 804 | 1 502 | 2 415 | 1 169 | 1 270 |
| Rare earths | | | | | | |
| Metals | tonnes | 18 | 19 | 15 | 81 | 168 |
| Salt | tonnes | 170 027 | 326 123 | 325 395 | 289 415 | 317 124 |
| Silver | | | | | | |
| Metal | kilograms | 399 772 | 442 900 | 677 683 | 616 861 | 564 308 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 9 455 | 9 547 | 8 185 | 7 384 | 4 763 |
| Sulphur, crude | tonnes | 179 324 | 155 173 | 14 358 | 8 785 | 41 534 |
| Sulphur, refined | tonnes | (c) ... | (c) ... | 136 717 | 156 833 | 183 869 |
| Sulphur, sublimed & precipitated | tonnes | 352 | 251 | 5 693 | 930 | 2 159 |
| Talc | tonnes | 89 839 | 108 467 | 116 739 | 118 131 | 120 920 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 3 | 50 | 1 | 2 | 1 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 268 | 497 | 458 | 406 | 503 |
| Scrap | tonnes | 222 | 191 | 201 | 180 | 17 |
| Titanium | | | | | | |
| Metal | tonnes | 5 102 | 3 727 | 3 159 | 4 439 | 4 130 |
| Oxides | tonnes | 24 393 | 28 434 | 28 323 | 28 476 | 25 433 |
| Tungsten | | | | | | |
| Metal | tonnes | 245 | 129 | 191 | 357 | 233 |
| Vanadium | | | | | | |
| Ores & concentrates | tonnes | 3 964 | 2 401 | 1 691 | 1 267 | 1 092 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 37 107 | 21 429 | 61 273 | 93 317 | 96 439 |
| Unwrought | tonnes | 6 624 | 2 250 | 2 761 | 2 331 | 9 230 |
| Unwrought alloys | tonnes | 5 002 | 6 520 | 6 914 | 3 523 | 2 854 |
| Scrap | tonnes | 9 793 | 12 762 | 17 313 | 15 157 | 13 652 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 15 906 | 20 510 | 22 050 | 25 633 | 21 760 |
| Metal | tonnes | 1 604 | 775 | 424 | 441 | 455 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite
- (c) Included with crude

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|--------------|--------------|--------------|--------------|--------------|
| Primary aggregates | tonnes | 4 014 635 | 3 324 865 | 3 368 905 | 4 102 477 | 4 331 596 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 2 324 849 | 2 256 065 | 2 169 206 | 2 407 108 | 2 602 224 |
| Alumina | tonnes | 126 284 | 126 299 | 123 514 | 142 931 | 147 537 |
| Alumina hydrate | tonnes | 145 496 | 134 724 | 128 280 | 151 086 | 155 718 |
| Unwrought | tonnes | 307 267 | 381 046 | 425 165 | 434 802 | 426 721 |
| Unwrought alloys | tonnes | 362 897 | 400 139 | 446 358 | 468 500 | 463 411 |
| Scrap | tonnes | 429 647 | 300 058 | 327 721 | 346 736 | 326 901 |
| Antimony | | | | | | |
| Ores & concentrates | tonnes | 446 | 727 | 786 | 879 | 1 005 |
| Metal | tonnes | 1 929 | 1 551 | 1 377 | 743 | 164 |
| Oxide | tonnes | 4 366 | 5 037 | 4 314 | 5 528 | 5 543 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 48 | 91 | 111 | 84 | 54 |
| Barytes | tonnes | 93 733 | 79 605 | 87 501 | 86 874 | 84 178 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 112 094 | 103 545 | 139 576 | 153 410 | 138 973 |
| Fuller's earth | tonnes | 12 920 | 12 954 | 10 982 | 5 760 | 7 893 |
| Bismuth | | | | | | |
| Metal | tonnes | 391 | 301 | 151 | 175 | 203 |
| Bromine | kilograms | 113 000 | 104 414 | 139 908 | 355 734 | 281 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 45 | 46 | 48 | 87 | 72 |
| Oxide | tonnes | 76 | 95 | 62 | 96 | 55 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 1 018 494 | 1 777 159 | 2 322 710 | 2 720 499 | 2 828 906 |
| Portland cement | tonnes | 1 915 641 | 1 796 508 | 2 033 657 | 2 130 079 | 2 014 905 |
| Other cement | tonnes | 314 706 | 304 329 | 168 008 | 146 033 | 152 325 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 82 769 | 56 835 | 26 802 | 30 872 | 39 999 |
| Metal | tonnes | 549 | 544 | 520 | 677 | 958 |
| Coal | | | | | | |
| Anthracite | tonnes | 155 092 | 193 308 | 243 578 | 338 706 | 369 840 |
| Other coal | tonnes | 20 068 964 | 19 682 422 | 21 029 014 | 25 382 339 | 24 714 768 |
| Cobalt | | | | | | |
| Ore | tonnes | 1 | 41 | 495 | 122 | 5 |
| Metal | tonnes | 624 | 649 | 449 | 440 | 468 |
| Oxides | tonnes | 1 004 | 1 256 | 966 | 1 004 | 1 128 |
| Copper | | | | | | |
| Unwrought, unrefined | tonnes | 1 455 | 636 | 310 | 216 | 955 |
| Unwrought, refined | tonnes | 649 687 | 643 386 | 650 757 | 700 101 | 652 089 |
| Unwrought alloys | tonnes | 21 575 | 19 779 | 21 862 | 16 723 | 8 053 |
| Scrap | tonnes | 168 541 | 188 238 | 164 700 | 128 501 | 124 737 |
| Diamond | | | | | | |
| Unsorted | carats | £1 087 000 | £1 680 000 | £1 138 000 | £1 655 000 | £2 576 000 |
| Gem, rough | carats | £890 000 | £1 425 000 | £1 241 000 | £928 000 | £1 591 000 |
| Gem, cut | carats | £236 885 000 | £176 777 000 | £180 528 000 | £210 629 000 | £235 326 000 |
| Industrial | carats | £6 802 000 | £6 699 000 | £4 647 000 | £5 949 000 | £5 236 000 |
| Dust | carats | 101 940 000 | 147 020 000 | 117 845 000 | 135 820 000 | 142 000 000 |
| Diatomite | tonnes | 7 047 | 8 990 | 10 429 | 14 744 | 9 141 |
| Feldspar | tonnes | 1 865 170 | 1 871 798 | 2 291 993 | 2 693 951 | 2 623 428 |
| Fluorspar | tonnes | 209 672 | 162 510 | 226 780 | 212 975 | 249 756 |
| Gold | | | | | | |
| Metal | kilograms | 398 542 | 358 654 | 281 157 | 274 841 | 250 938 |
| Waste & scrap | kilograms | 15 694 | 7 584 | 1 685 | 3 612 | 904 |
| Graphite | tonnes | 11 319 | 11 302 | 10 845 | 10 699 | 11 102 |
| Gypsum | | | | | | |
| Crude | tonnes | 2 479 | 2 391 | 1 947 | 5 024 | 6 134 |
| Calcined | tonnes | 23 487 | 22 706 | 17 681 | 22 515 | 22 076 |
| Iodine | kilograms | 1 049 291 | 1 218 000 | 1 167 573 | 1 127 906 | 854 831 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 10 263 020 | 9 283 941 | 8 842 872 | 10 578 006 | 11 244 293 |
| Burnt pyrites | tonnes | 55 502 623 | 5 614 311 | 6 445 903 | 6 136 765 | 6 307 527 |

Italy

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|------------|------------|------------|------------|------------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 1 308 092 | 1 121 250 | 1 209 778 | 1 304 367 | 1 729 086 |
| Sponge & powder | tonnes | 220 836 | 289 728 | 316 524 | 206 956 | 424 810 |
| Ferro-chrome | tonnes | 303 726 | 378 402 | 368 649 | 400 159 | 428 716 |
| Ferro-silico-chrome | tonnes | ... | 189 | 30 | 5 | 32 |
| Ferro-silico-magnesium | tonnes | 4 570 | 7 651 | 6 601 | 7 826 | 5 409 |
| Ferro-manganese | tonnes | 74 801 | 77 121 | 69 901 | 79 827 | 84 920 |
| Ferro-silico-manganese | tonnes | 95 270 | 151 140 | 150 805 | 182 945 | 174 391 |
| Ferro-molybdenum | tonnes | 5 063 | 3 866 | 4 954 | 7 289 | 7 294 |
| Ferro-nickel | tonnes | 36 887 | 60 680 | 59 367 | 82 107 | 141 603 |
| Ferro-niobium | tonnes | 1 431 | 1 523 | 1 408 | 1 403 | 2 457 |
| Ferro-phosphorus | tonnes | 917 | 1 021 | 662 | 830 | 987 |
| Ferro-silicon | tonnes | 134 547 | 114 779 | 130 582 | 119 820 | 141 789 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 3 120 | 2 462 | 3 065 | 3 379 | 3 978 |
| Ferro-tungsten & Fe-Si-W | tonnes | 177 | 108 | 123 | 229 | 208 |
| Ferro-vanadium | tonnes | 2 014 | 2 180 | 1 759 | 1 890 | 1 945 |
| Other ferro-alloys | tonnes | 14 245 | 17 338 | 15 096 | 17 062 | 17 384 |
| Silicon metal | tonnes | 42 596 | 37 799 | 48 298 | 46 108 | 49 129 |
| Ingots, blooms, billets | tonnes | 2 270 890 | 2 138 491 | 2 510 222 | 3 874 346 | 4 310 404 |
| Scrap | tonnes | 4 348 543 | 4 045 986 | 4 380 744 | 5 606 124 | 5 367 259 |
| Kaolin | tonnes | 1 020 131 | 952 526 | 947 116 | 939 832 | 956 948 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 109 714 | 98 430 | 86 985 | 99 015 | 107 685 |
| Unwrought | tonnes | 90 537 | 111 214 | 88 333 | 114 546 | 72 181 |
| Scrap | tonnes | 6 346 | 4 737 | 3 669 | 3 877 | 3 333 |
| Lithium | | | | | | |
| Oxides | tonnes | 168 | 209 | 237 | 148 | 223 |
| Carbonate | tonnes | 1 659 | 1 581 | 1 686 | 1 505 | 2 263 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 32 911 | 18 687 | 17 326 | 9 429 | 23 536 |
| Magnesia | tonnes | 106 250 | 120 820 | 129 672 | 163 273 | 161 432 |
| Manganese | | | | | | |
| Ores & concentrates (a) | tonnes | 100 908 | 111 716 | 100 796 | 206 249 | 76 278 |
| Metal | tonnes | 10 089 | 4 723 | 3 673 | 4 970 | 8 494 |
| Mercury | kilograms | 32 672 | 15 389 | 27 140 | 135 119 | 32 471 |
| Mica | | | | | | |
| Unmanufactured | tonnes | 62 | 52 | 106 | 65 | 118 |
| Ground | tonnes | 2 594 | 2 586 | 2 759 | 3 473 | 3 405 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 4 065 | 4 097 | 4 119 | 4 719 | 5 109 |
| Metal | tonnes | 284 | 163 | 122 | 105 | 203 |
| Oxides | tonnes | 74 | 141 | 172 | 247 | 117 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 225 | 515 | 306 | 353 | 32 |
| Unwrought | tonnes | 50 142 | 49 803 | 51 276 | 41 944 | 37 708 |
| Unwrought alloys | tonnes | 1 845 | 1 577 | 1 211 | 2 664 | 1 455 |
| Scrap | tonnes | 2 141 | 559 | 2 248 | 3 075 | 5 119 |
| Crude petroleum | tonnes | 83 971 514 | 81 043 087 | 84 724 010 | 87 208 954 | 89 007 151 |
| Phosphates | tonnes | 263 295 | 278 389 | 296 497 | 359 090 | 279 693 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 9 394 | 17 518 | 10 551 | 12 087 | 15 586 |
| Platinum metals | kilograms | 30 150 | 26 602 | 20 085 | 21 430 | 19 183 |
| Waste & scrap | kilograms | 988 | 5 | 39 | 278 | 20 085 |
| Potash | | | | | | |
| Sulphate | tonnes | 87 150 | 84 724 | 102 855 | 96 904 | 96 415 |
| Chloride | tonnes | 425 575 | 445 906 | 422 469 | 392 833 | 334 324 |
| Other potassic fertilisers | tonnes | 17 701 | 21 604 | 16 491 | 29 902 | 13 203 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 669 | 637 | 656 | 932 | 987 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 3 | 23 | 1 | 1 | 17 |
| Metals | tonnes | 17 | 4 | 102 | 108 | 38 |
| Salt | tonnes | 771 298 | 685 681 | 745 388 | 833 790 | 773 507 |
| Sillimanite | tonnes | 15 859 | 18 193 | 14 669 | 15 132 | 27 476 |
| Silver | | | | | | |
| Metal | kilograms | 2 030 362 | 1 705 431 | 1 724 000 | 1 776 385 | 1 635 765 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|--------|---------|---------|---------|---------|---------|
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 9 174 | 15 021 | 12 067 | 8 929 | 15 548 |
| Sulphur, crude | tonnes | 43 335 | 53 623 | 11 975 | 8 646 | 3 150 |
| Sulphur, refined | tonnes | 8 086 | 8 330 | 8 478 | 10 279 | 10 497 |
| Sulphur, sublimed & precipitated | tonnes | 3 939 | 820 | 483 | 281 | 328 |
| Talc | tonnes | 133 646 | 117 688 | 127 855 | 126 745 | 125 913 |
| Tin | | | | | | |
| Unwrought | tonnes | 6 171 | 6 507 | 6 201 | 5 610 | 5 899 |
| Unwrought alloys | tonnes | 204 | 190 | 105 | 95 | 135 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 112 828 | 99 830 | 123 862 | 88 361 | 85 607 |
| Metal | tonnes | 6 126 | 5 052 | 4 738 | 6 580 | 5 186 |
| Oxides | tonnes | 149 841 | 157 476 | 149 238 | 158 592 | 154 950 |
| Tungsten | | | | | | |
| Metal | tonnes | 301 | 236 | 258 | 321 | 257 |
| Carbide | tonnes | 363 | 324 | 318 | 299 | 337 |
| Vanadium | | | | | | |
| Pentoxide | tonnes | 199 | 153 | 129 | 134 | 156 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 311 767 | 283 804 | 191 369 | 249 978 | 219 491 |
| Unwrought | tonnes | 175 658 | 201 905 | 226 245 | 273 146 | 261 192 |
| Unwrought alloys | tonnes | 42 197 | 31 361 | 28 659 | 35 835 | 34 929 |
| Scrap | tonnes | 21 985 | 15 509 | 14 095 | 15 991 | 14 172 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 137 649 | 136 504 | 130 207 | 149 787 | 147 435 |
| Metal | tonnes | 936 | 85 | 823 | 122 | 120 |

Note(s):-

(a) Including manganiferous iron ore

Latvia

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|-----------|-------------|-------------|-------------|--------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 2 283 102 | 2 534 837 | 3 584 055 | 3 194 361 | 2 344 138 |
| Cement clinker | tonnes | *200 000 | *200 000 | *200 000 | 250 000 | ... |
| Cement, finished | tonnes | *300 000 | 260 397 | 295 205 | 283 645 | 280 000 |
| Gypsum | tonnes | *100 000 | (a) 220 000 | (a) 160 000 | (a) 230 000 | (a) *230 000 |
| Crude steel | tonnes | 515 000 | 507 000 | 546 000 | 550 000 | 550 000 |

Note(s):-

(a) Including anhydrite

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|--------|--------|---------|
| Primary aggregates | tonnes | 173 112 | 118 698 | 12 108 | 10 278 | 13 178 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 26 973 | 37 243 | 34 081 | 39 368 | 34 697 |
| Scrap | tonnes | 2 389 | 1 477 | 747 | 748 | 910 |
| Cement | | | | | | |
| Portland cement | tonnes | 53 352 | 42 492 | 42 644 | 26 144 | 10 762 |
| Copper | | | | | | |
| Scrap | tonnes | 8 160 | 7 775 | 6 329 | 7 153 | 9 207 |
| Gold | | | | | | |
| Waste & scrap | kilograms | 137 | 1 | 72 | ... | ... |
| Gypsum | tonnes | 35 302 | 55 225 | 58 186 | 24 782 | 48 896 |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 24 000 | 11 000 | 20 | 19 | ... |
| Scrap | tonnes | 37 885 | 6 328 | 6 415 | 64 936 | 217 361 |
| Nickel | | | | | | |
| Scrap | tonnes | 2 293 | 1 004 | 853 | 170 | 538 |
| Crude petroleum | tonnes | 10 999 | 10 477 | 10 162 | 19 892 | 6 085 |
| Platinum metals | | | | | | |
| Waste & scrap | kilograms | 2 | 407 | 567 | 716 | 1 002 |
| Salt | tonnes | 730 | 668 | 411 | 5 169 | 10 205 |
| Titanium | | | | | | |
| Metal | tonnes | 180 | 16 | 45 | 61 | 6 |
| Tungsten | | | | | | |
| Metal | tonnes | ... | 42 | 84 | 32 | 4 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|---------|---------|---------|-----------|
| Primary aggregates | tonnes | 543 479 | 623 854 | 676 383 | 629 613 | 1 320 287 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 2 634 | 2 052 | 4 940 | 6 100 | 1 810 |
| Scrap | tonnes | 11 977 | 24 125 | 22 149 | 27 340 | 16 970 |
| Asbestos | tonnes | 664 | ... | ... | 34 | 4 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 438 | 1 087 | 1 710 | 1 917 | 1 629 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 3 255 | ... | ... | ... | 38 589 |
| Portland cement | tonnes | 87 609 | 112 025 | 138 488 | 204 353 | 234 862 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 86 754 | 101 680 | 123 844 | 94 896 | 115 720 |
| Diatomite | tonnes | 263 | 236 | 392 | 592 | 389 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 3 459 | 3 138 | 3 232 | 2 931 | 3 563 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|---------|---------|---------|---------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 14 209 | 14 351 | 79 359 | 75 448 | 54 639 |
| Ferro-alloys | tonnes | 7 585 | 8 980 | 10 920 | 16 240 | 12 222 |
| Silicon metal | tonnes | 1 895 | 2 572 | 5 638 | 2 220 | 1 711 |
| Ingots, blooms, billets | tonnes | 91 262 | 99 588 | 172 092 | 195 467 | 206 550 |
| Scrap | tonnes | 178 503 | 160 459 | 174 272 | 171 941 | 161 538 |
| Kaolin | tonnes | 3 386 | 4 933 | 4 962 | 5 096 | 5 016 |
| Magnesite and magnesia | tonnes | 3 071 | 3 021 | 3 518 | 5 297 | 3 344 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 20 692 | 17 241 | 22 764 | 26 368 | 21 343 |
| Salt | tonnes | 91 525 | 100 542 | 100 459 | 122 251 | 139 662 |
| Titanium | | | | | | |
| Oxides | tonnes | 998 | 1 132 | 2 032 | 1 232 | 726 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 747 | 753 | 895 | 1 172 | 654 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite

Lithuania

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 4 018 341 | 5 770 428 | 4 793 670 | 5 835 729 | 7 034 402 |
| Crushed rock | tonnes | 1 576 587 | 2 145 727 | 2 896 045 | 3 683 266 | 4 757 023 |
| Cement, finished | tonnes | 529 193 | 605 784 | 596 857 | 753 069 | 832 076 |
| Crude petroleum | tonnes | 470 000 | 433 700 | 382 400 | 301 874 | 216 634 |
| Sulphur and pyrites | | | | | | |
| Recovered (a) | tonnes (sulphur content) | 47 000 | 49 824 | 48 515 | 67 094 | 74 268 |

Note(s):-

(1) Small amounts of steel are believed to be produced in Lithuania

(a) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 258 802 | 255 405 | 228 171 | 460 569 | 957 488 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 4 767 | 4 083 | 5 222 | 3 943 | 3 922 |
| Scrap | tonnes | 22 873 | 24 276 | 15 140 | 11 953 | 7 210 |
| Asbestos | tonnes | 139 | 0 | 0 | ... | ... |
| Cement | | | | | | |
| Portland cement | tonnes | 213 851 | 224 544 | 212 730 | 247 918 | 299 782 |
| Copper | | | | | | |
| Scrap | tonnes | 10 016 | 9 719 | 8 383 | 7 611 | 5 821 |
| Gold | | | | | | |
| Waste & scrap | kilograms | 10 140 | 20 | 100 | ... | ... |
| Iodine | kilograms | 13 000 | 1 832 | 827 | 7 502 | 33 |
| Iron, steel and ferro-alloys | | | | | | |
| Scrap | tonnes | 563 394 | 704 948 | 618 231 | 677 727 | 599 084 |
| Lead | | | | | | |
| Scrap | tonnes | 1 129 | 931 | 3 239 | 6 613 | 7 848 |
| Nickel | | | | | | |
| Scrap | tonnes | 739 | 759 | 996 | 770 | 411 |
| Crude petroleum | tonnes | 349 491 | 134 180 | 273 187 | 197 709 | 148 031 |
| Platinum metals | | | | | | |
| Waste & scrap | kilograms | 9 867 | 2 982 | 7 980 | 6 019 | ... |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 9 243 | 7 705 | 7 128 | 8 037 | 10 463 |
| Salt | tonnes | 1 822 | 2 887 | 3 377 | 5 457 | 5 895 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 5 660 | 14 094 | 16 724 | 13 960 | 3 851 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------|-----------|---------|-----------|-----------|
| Primary aggregates | tonnes | 964 300 | 1 096 672 | 993 051 | 1 069 921 | 1 289 117 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 5 338 | 9 431 | 6 673 | 10 388 | 13 079 |
| Scrap | tonnes | 1 654 | 7 907 | 4 435 | 1 131 | 1 841 |
| Bentonite and fuller's earth | tonnes | 2 124 | 1 762 | 2 642 | 2 475 | 2 716 |
| Cement | | | | | | |
| Cement clinkers | tonnes | ... | 14 459 | ... | 22 496 | ... |
| Portland cement | tonnes | 88 783 | 128 201 | 206 317 | 183 712 | 265 103 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Coal | | | | | | |
| Hard coal (a) | tonnes | 105 625 | 222 485 | 294 938 | 260 684 | 290 058 |
| Diatomite | tonnes | 319 | 503 | 1 499 | 917 | 520 |
| Feldspar | tonnes | 5 065 | 3 259 | 3 380 | 7 461 | 4 166 |
| Gypsum | | | | | | |
| Crude | tonnes | 22 275 | 36 355 | 1 495 | 39 653 | 58 859 |
| Calcined | tonnes | 16 723 | 11 630 | 45 996 | 16 245 | 20 990 |
| Iodine | kilograms | 7 000 | 1 376 | 1 050 | 1 796 | 6 929 |
| Iron, steel and ferro-alloys | | | | | | |
| Scrap | tonnes | 32 421 | 96 950 | 30 508 | 82 325 | 74 816 |
| Kaolin | tonnes | ... | ... | ... | ... | 802 |
| Crude petroleum | tonnes | 6 117 000 | 6 219 137 | 7 075 694 | 837 578 | 9 746 806 |
| Phosphates | tonnes | 485 429 | 899 042 | 1 079 502 | 1 082 901 | 1 178 816 |
| Potash | | | | | | |
| Fertiliser salts | tonnes | 6 264 | ... | ... | ... | ... |
| Chloride | tonnes | 116 995 | 141 946 | 160 334 | 172 622 | 123 782 |
| Other potassic fertilisers | tonnes | 450 | 6 767 | 7 384 | 12 978 | 12 086 |
| Salt | tonnes | 157 181 | 166 252 | 187 050 | 204 839 | 198 994 |
| Silver | | | | | | |
| Metal | kilograms | ... | 3 058 | 1 771 | 5 885 | 3 943 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 66 675 | 269 602 | 316 359 | 255 917 | 306 635 |

Note(s):-

(a) Including anthracite

Malta

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------------------|--------|--------|--------|--------|--------|-------|
| Iron, steel and ferro-alloys Scrap | tonnes | 18 594 | 20 322 | 23 093 | 12 424 | 5 252 |

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------|-----------|---------|---------|---------|---------|---------|
| Gold | | | | | | |
| Metal | kilograms | 5 926 | 3 835 | 3 927 | 3 607 | 14 001 |
| Salt | tonnes | 1 722 | ... | ... | ... | 5 423 |
| Cement | | | | | | |
| Portland cement | tonnes | 260 812 | 275 627 | 275 736 | 179 533 | 334 107 |

Netherlands

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------------------------|-------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 113 917 000 | 81 490 000 | 74 200 000 | 66 200 000 | 63 579 000 |
| Primary aluminium | tonnes | 293 068 | 284 364 | 282 800 | 330 000 | 333 800 |
| Cadmium | tonnes | 455 | 485 | 495 | 572 | *570 |
| Cement clinker | tonnes | ... | 900 000 | 800 000 | 825 000 | ... |
| Cement, finished | tonnes | 3 380 000 | 3 080 000 | 2 450 000 | 2 380 000 | *2 400 000 |
| Pig iron | tonnes | 5 305 000 | 5 367 000 | 5 846 000 | 6 011 000 | 6 000 000 |
| Crude steel | tonnes | 5 902 000 | 6 117 000 | 6 561 000 | 6 848 000 | 6 919 000 |
| Lead, refined | tonnes | 20 000 | 18 000 | 17 000 | 17 000 | 17 000 |
| Magnesite (a) | tonnes | 250 000 | 226 000 | 261 194 | 245 495 | 285 336 |
| Crude petroleum | tonnes | 2 263 590 | 3 073 924 | 3 076 398 | 2 890 979 | 2 268 746 |
| Natural gas | million m ³ | 74 323 | 71 786 | 69 114 | 81 499 | 74 460 |
| Salt | tonnes | 5 717 000 | 5 773 000 | 5 980 000 | 5 896 000 | 6 155 000 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | 126 000 | 124 000 | 131 000 | 137 000 | 141 000 |
| Recovered (c) | tonnes (sulphur content) | 384 000 | 373 000 | 408 000 | 410 000 | 440 000 |
| Slab zinc | tonnes | 204 794 | 203 460 | 224 000 | 224 000 | 227 500 |

Note(s):-

- (a) Chloride produced from solution mining
- (b) From metal sulphide processing
- (c) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|-----------------|-----------------|
| Primary aggregates | tonnes | 11 540 000 | 12 743 000 | 12 427 000 | (b) *14 300 000 | (b) *14 100 000 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 76 216 | 35 719 | 58 848 | 96 740 | 93 993 |
| Alumina | tonnes | 144 613 | 125 292 | 51 228 | 267 947 | 264 116 |
| Alumina hydrate | tonnes | 24 904 | 37 548 | 48 026 | 42 398 | 48 643 |
| Unwrought | tonnes | 169 741 | 356 282 | 408 302 | 314 462 | 304 993 |
| Unwrought alloys | tonnes | 300 275 | 225 385 | 227 283 | 320 583 | 304 675 |
| Scrap | tonnes | 153 947 | 186 791 | 187 522 | 234 761 | 265 755 |
| Antimony | | | | | | |
| Metal | tonnes | 186 | 115 | 315 | 212 | 570 |
| Oxide | tonnes | 872 | 345 | 270 | 652 | 664 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 39 | 45 | 64 | 115 | 50 |
| Barytes | tonnes | 88 229 | 98 393 | 91 083 | 77 269 | 52 444 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 165 460 | 178 006 | 180 736 | 203 897 | 186 286 |
| Fuller's earth | tonnes | 8 123 | 4 019 | 3 752 | 9 085 | 2 931 |
| Bismuth | | | | | | |
| Metal | tonnes | 6 | 100 | 327 | 136 | 97 |
| Bromine | kilograms | 9 091 000 | 11 625 600 | 5 219 900 | 634 000 | 1 593 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 891 | 741 | 572 | 621 | 553 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 1 259 | 1 325 | 2 326 | 1 585 | 4 610 |
| Portland cement | tonnes | 215 827 | 108 209 | 209 122 | 326 234 | 295 457 |
| Other cement | tonnes | 158 864 | 86 102 | 53 743 | 30 013 | 18 513 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 58 219 | 46 386 | 52 636 | 58 623 | 72 062 |
| Metal | tonnes | 812 | 1 282 | 1 817 | 2 655 | 3 543 |
| Coal | | | | | | |
| Anthracite | tonnes | 272 320 | 162 820 | 206 426 | 161 320 | 165 918 |
| Other coal | tonnes | 13 104 257 | 6 539 589 | 5 574 363 | 8 624 870 | 8 445 919 |
| Briquettes | tonnes | 977 | 13 472 | 1 362 | 71 710 | 58 241 |

Netherlands

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|-------------|------------|------------|------------|
| Cobalt | | | | | | |
| Metal | tonnes | 2 737 | 690 | 2 247 | 1 954 | 1 326 |
| Oxides | tonnes | 459 | 271 | 150 | 953 | 1 323 |
| Copper | | | | | | |
| Unwrought | tonnes | 5 444 | 10 075 | 18 605 | 32 548 | 39 638 |
| Scrap | tonnes | 100 488 | 101 624 | 109 595 | 140 909 | 207 551 |
| Diamond | | | | | | |
| Unsorted | carats | £2 026 000 | £1 672 000 | £1 490 000 | £1 883 000 | £928 000 |
| Gem, rough | carats | £3 000 | £64 000 | £437 000 | — | — |
| Gem, cut | carats | £7 891 000 | £10 491 000 | £8 511 000 | £9 806 000 | £8 687 000 |
| Industrial | carats | £2 887 000 | £758 000 | £813 000 | £188 000 | £842 000 |
| Dust | carats | ... | £505 000 | £776 000 | £724 000 | £44 000 |
| Diatomite | tonnes | 1 105 | 6 583 | 1 212 | 1 569 | 804 |
| Feldspar | tonnes | 693 | 808 | 749 | 81 | 17 |
| Fluorspar | tonnes | 7 399 | 12 752 | 19 186 | 3 019 | 37 113 |
| Gold | | | | | | |
| Metal | kilograms | 28 356 | 9 601 | 8 094 | 24 557 | 11 603 |
| Waste & scrap | kilograms | 31 500 | 108 000 | 276 600 | 62 212 | 72 427 |
| Graphite | tonnes | 4 877 | 2 851 | 5 209 | 5 987 | 3 240 |
| Gypsum | | | | | | |
| Crude | tonnes | 22 169 | 24 263 | 32 752 | 37 920 | 53 351 |
| Calcined | tonnes | 2 350 | 26 463 | 7 905 | 11 088 | 61 508 |
| Iodine | kilograms | ... | 147 664 | 527 769 | 58 633 | 59 228 |
| Iron ore | tonnes | 29 724 | 42 244 | 20 881 | 1 384 740 | 1 977 963 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 62 667 | 5 131 | 7 377 | 31 821 | 40 552 |
| Sponge & powder | tonnes | 76 545 | 107 474 | 15 255 | 15 794 | 46 464 |
| Ferro-chrome | tonnes | 27 898 | 9 122 | 38 469 | 70 272 | 81 105 |
| Ferro-silico-chrome | tonnes | 32 | 5 | 68 | 18 | 508 |
| Ferro-manganese | tonnes | 26 335 | 23 131 | 25 842 | 53 367 | 49 203 |
| Ferro-silico-manganese | tonnes | 25 958 | 7 037 | 20 830 | 16 109 | 13 994 |
| Ferro-molybdenum | tonnes | 3 401 | 1 242 | 1 610 | 2 712 | 4 304 |
| Ferro-nickel | tonnes | 10 796 | 4 159 | 4 112 | 9 855 | 23 252 |
| Ferro-niobium | tonnes | 7 512 | 130 | 131 | 47 | 126 |
| Ferro-silicon | tonnes | 4 937 | 9 899 | 27 511 | 27 328 | 95 845 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 780 | 225 | 213 | 660 | 6 235 |
| Ferro-tungsten & Fe-Si-W | tonnes | 380 | 217 | 264 | 193 | 624 |
| Ferro-vanadium | tonnes | 2 194 | 910 | 2 838 | 2 901 | 22 495 |
| Other ferro-alloys | tonnes | 9 767 | 9 379 | 10 519 | 5 925 | 9 700 |
| Silicon metal | tonnes | 14 014 | 8 819 | 15 957 | 10 319 | 40 393 |
| Ingots, blooms, billets | tonnes | 312 200 | 538 825 | 239 603 | 309 454 | 152 593 |
| Scrap | tonnes | 3 072 052 | 3 064 283 | 3 242 779 | 3 859 394 | 4 140 362 |
| Kaolin | tonnes | 282 035 | 234 669 | 335 299 | 307 337 | 441 248 |
| Lead | | | | | | |
| Unwrought | tonnes | 1 256 | 1 263 | 23 942 | 34 426 | 24 382 |
| Scrap | tonnes | 26 188 | 5 670 | 8 732 | 12 395 | 11 950 |
| Lithium | | | | | | |
| Oxides | tonnes | 590 | 203 | 190 | 187 | 115 |
| Carbonate | tonnes | 205 | 104 | 89 | 199 | 224 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 2 502 | 2 944 | 12 352 | 8 704 | 1 452 |
| Magnesia | tonnes | 448 602 | 438 407 | 384 711 | 431 175 | 492 077 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 9 889 | 14 115 | 12 041 | 15 143 | 14 903 |
| Metal | tonnes | 9 614 | 3 869 | 7 365 | 12 548 | 13 585 |
| Mercury | kilograms | 298 000 | 344 400 | 105 100 | 183 998 | 188 220 |
| Mica | tonnes | 1 397 | 4 384 | 5 359 | 6 084 | 2 912 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 16 092 | 52 237 | 17 141 | 30 424 | 47 395 |
| Metal | tonnes | 829 | 81 | 161 | 120 | 59 |
| Oxides | tonnes | 2 014 | 1 920 | 1 640 | 2 010 | 2 708 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | (b) *8 200 | (b) *19 300 | (b) *8 100 | 37 108 | 41 174 |
| Unwrought (a) | tonnes | 54 127 | 25 214 | 33 096 | 24 467 | 21 895 |
| Scrap | tonnes | 1 365 | 1 494 | 3 602 | 2 745 | 2 009 |
| Oxides | tonnes | ... | 2 528 | 0 | 28 549 | 6 017 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-------------|-------------|-------------|-------------|------------|
| Crude petroleum | tonnes | 177 964 | 849 | 54 938 | 136 202 | 145 541 |
| Phosphates | tonnes | 65 689 | 181 928 | 94 541 | 94 150 | 91 592 |
| Platinum metals | | | | | | |
| Platinum | kilograms | £21 776 000 | £17 686 000 | £19 007 000 | £18 570 000 | £9 061 000 |
| Platinum metals | kilograms | ... | £634 000 | £1 015 000 | £1 377 000 | £8 211 000 |
| Waste & scrap | kilograms | 23 800 | 10 900 | 9 200 | 201 129 | 876 |
| Potash | | | | | | |
| Chloride | tonnes | 74 347 | 243 242 | 219 413 | 197 731 | 163 072 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 68 | 53 | 95 | 87 | 171 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 2 | 14 | ... | ... | 0 |
| Metals | tonnes | 15 | 17 | 58 | 124 | 13 |
| Salt | tonnes | 2 689 600 | 3 641 444 | 3 679 323 | 3 212 606 | 3 749 442 |
| Sillimanite | tonnes | 10 932 | 5 604 | 6 400 | 10 097 | 11 444 |
| Silver | | | | | | |
| Metal | kilograms | ... | ... | 119 012 | 99 221 | 93 668 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 93 095 | 16 401 | ... | 76 812 | 82 502 |
| Sulphur, crude | tonnes | 186 059 | 118 053 | 223 880 | 133 553 | 55 758 |
| Sulphur, refined | tonnes | 105 723 | 143 272 | 98 196 | 170 473 | 192 922 |
| Sulphur, sublimed & precipitated | tonnes | 26 | 38 | 105 | 2 | 10 |
| Talc | tonnes | 145 951 | 164 515 | 177 554 | 225 528 | 183 270 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 31 | 21 | 23 | 24 | 3 |
| Tin | | | | | | |
| Unwrought | tonnes | 1 845 | 4 138 | 4 278 | 3 921 | 5 330 |
| Unwrought alloys | tonnes | 102 | 205 | 240 | 1 430 | 1 790 |
| Scrap | tonnes | 511 | 643 | 344 | 685 | 297 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 1 935 | 1 093 | 3 611 | 4 050 | 1 390 |
| Metal | tonnes | 1 532 | 2 344 | 2 015 | 1 846 | 2 181 |
| Oxides | tonnes | (b) *68 100 | 80 663 | (b) *65 100 | 92 050 | 84 310 |
| Tungsten | | | | | | |
| Ores & concentrates | tonnes | 55 | 16 | 1 | 16 | — |
| Metal | tonnes | 380 | 469 | 237 | 777 | 502 |
| Vanadium | | | | | | |
| Vanadiferous residues | tonnes | 207 | ... | ... | ... | ... |
| Pentoxide | tonnes | 253 | 87 | 219 | 1 167 | 381 |
| Metal | tonnes | 179 | 71 | 379 | 5 | 11 |
| Zinc | | | | | | |
| Unwrought | tonnes | 252 993 | 187 416 | 277 262 | 265 840 | 273 832 |
| Unwrought alloys | tonnes | 90 | 4 234 | 7 571 | 19 867 | 9 364 |
| Scrap | tonnes | 21 496 | 16 093 | 24 856 | 32 684 | 41 593 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 1 430 | 5 361 | 7 011 | 8 548 | 8 178 |

Note(s):-

(a) Including alloys

(b) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | tonnes | 36 200 000 | 44 000 000 | 45 300 000 | 37 100 000 | 40 800 000 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 95 110 | 92 667 | 120 787 | 231 213 | 169 012 |
| Alumina | tonnes | 726 542 | 554 967 | 634 626 | 671 167 | 654 487 |
| Alumina hydrate | tonnes | 131 097 | 141 991 | 191 165 | 181 328 | 223 823 |
| Unwrought | tonnes | 350 467 | 332 873 | 367 227 | 349 481 | 370 979 |
| Unwrought alloys | tonnes | 170 095 | 193 099 | 216 251 | 249 182 | 287 504 |
| Scrap | tonnes | 206 963 | 150 466 | 138 051 | 174 969 | 189 722 |
| Antimony | | | | | | |
| Metal | tonnes | 775 | 268 | 511 | 817 | 705 |
| Oxide | tonnes | 2 293 | 1 424 | 1 481 | 2 932 | 3 717 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 137 | 77 | 61 | 110 | 85 |
| Barytes | tonnes | 111 042 | 103 133 | 136 981 | 155 325 | 116 512 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 236 201 | 247 142 | 298 369 | 358 305 | 199 692 |
| Fuller's earth | tonnes | 24 615 | 14 975 | 76 241 | 76 177 | 70 482 |
| Bismuth | | | | | | |
| Compounds | tonnes | 360 | ... | ... | ... | ... |
| Metal | tonnes | 278 | 108 | 274 | 166 | 85 |
| Bromine (a) | kilograms | 1 253 | 2 017 929 | 981 870 | 147 994 | 5 019 459 |
| Cadmium | | | | | | |
| Metal | tonnes | 544 | ... | 357 | 284 | 233 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 706 124 | 52 231 | 679 330 | 581 267 | 388 146 |
| Portland cement | tonnes | 1 551 824 | 370 170 | 1 614 917 | 1 812 884 | 1 632 872 |
| Other cement | tonnes | 934 043 | 229 933 | 826 513 | 774 050 | 846 622 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 73 730 | 62 992 | 52 353 | 88 660 | 80 622 |
| Metal | tonnes | 1 359 | 562 | 310 | 612 | 1 838 |
| Coal | | | | | | |
| Anthracite | tonnes | 1 293 055 | 190 633 | 363 692 | 293 892 | 186 936 |
| Other coal | tonnes | 26 951 400 | 18 685 529 | 20 158 178 | 22 241 661 | 21 958 859 |
| Brown coal | tonnes | 38 959 | 36 923 | 23 782 | 18 294 | 30 769 |
| Briquettes | tonnes | 16 111 | 13 474 | 24 574 | 15 510 | 58 737 |
| Cobalt | | | | | | |
| Metal | tonnes | 1 451 | 478 | 551 | 1 340 | 1 532 |
| Oxides | tonnes | 510 | 570 | 215 | 369 | 351 |
| Copper | | | | | | |
| Unwrought, unrefined | tonnes | 4 | 11 | 2 867 | 10 185 | 10 485 |
| Unwrought, refined | tonnes | 123 138 | 156 095 | 123 682 | 125 310 | 135 004 |
| Unwrought alloys | tonnes | 1 612 | 1 725 | 1 326 | 2 172 | 1 904 |
| Scrap | tonnes | 65 053 | 70 660 | 80 262 | 98 396 | 92 927 |
| Diamond | | | | | | |
| Unsorted | carats | £2 021 000 | £2 276 000 | £1 858 000 | £3 327 000 | £344 000 |
| Gem, rough | carats | £2 135 000 | £2 950 000 | £828 000 | £108 000 | £79 000 |
| Gem, cut | carats | £20 034 000 | £17 776 000 | £13 846 000 | £14 630 000 | £14 764 000 |
| Industrial | carats | £850 000 | £827 000 | £940 000 | £907 000 | £2 009 000 |
| Diatomite | tonnes | 11 800 | 12 979 | 12 069 | 10 806 | 7 967 |
| Feldspar | tonnes | 7 531 | 11 603 | 11 084 | 9 606 | 7 721 |
| Fluorspar | tonnes | 65 422 | 55 212 | 63 896 | 108 312 | 45 073 |
| Gold | | | | | | |
| Metal | kilograms | 19 215 | 11 825 | 10 318 | 16 275 | 24 679 |
| Waste & scrap | kilograms | 1 000 | 561 | 1 044 | 1 | 1 |
| Graphite | tonnes | 5 636 | 8 232 | 10 208 | 18 139 | 15 205 |
| Gypsum | | | | | | |
| Crude | tonnes | 222 337 | 208 013 | 132 882 | 176 349 | 155 519 |
| Calcined | tonnes | 274 769 | 381 920 | 387 829 | 492 478 | 686 085 |
| Iodine | kilograms | 2 156 800 | 1 269 000 | 632 000 | 357 225 | 21 015 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 6 310 886 | 7 369 802 | 8 740 391 | 12 622 628 | 12 285 177 |
| Burnt pyrites | tonnes | 106 277 | 23 596 | 22 545 | 26 717 | — |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-------------|-------------|-------------|-------------|------------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 132 065 | 144 375 | 63 821 | 71 664 | 107 828 |
| Sponge & powder | tonnes | 42 829 | 114 868 | 71 606 | 59 030 | 131 170 |
| Ferro-chrome | tonnes | 126 622 | 114 878 | 68 424 | 176 862 | 170 806 |
| Ferro-silico-chrome | tonnes | 2 487 | 398 | 6 | 616 | 621 |
| Ferro-silico-magnesium | tonnes | 318 | 3 212 | 1 305 | ... | ... |
| Ferro-manganese | tonnes | 42 022 | 42 054 | 72 916 | 112 073 | 115 972 |
| Ferro-silico-manganese | tonnes | 35 316 | 40 133 | 54 901 | 33 492 | 30 114 |
| Ferro-molybdenum | tonnes | 8 781 | 1 457 | 1 800 | 5 282 | 5 100 |
| Ferro-nickel | tonnes | 23 658 | 12 428 | 9 213 | 38 872 | 39 305 |
| Ferro-niobium | tonnes | 7 888 | 31 | 16 | 16 | 51 |
| Ferro-phosphorus | tonnes | 2 720 | 1 976 | 1 421 | ... | ... |
| Ferro-silicon | tonnes | 90 882 | 129 678 | 110 329 | 153 435 | 145 459 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 1 736 | 1 565 | 2 083 | 4 272 | 11 496 |
| Ferro-tungsten & Fe-Si-W | tonnes | 370 | 393 | 405 | 625 | 1 148 |
| Ferro-vanadium | tonnes | 1 969 | 3 240 | 3 565 | 3 608 | 5 100 |
| Other ferro-alloys | tonnes | 4 798 | 6 654 | 4 002 | 5 680 | 7 412 |
| Silicon metal | tonnes | 32 276 | 33 395 | 43 195 | 36 792 | 52 931 |
| Ingots, blooms, billets | tonnes | 119 504 | 102 428 | 124 817 | 302 637 | 322 908 |
| Scrap | tonnes | 1 272 600 | 1 378 767 | 1 751 693 | 2 250 964 | 2 030 115 |
| Kaolin | tonnes | 455 737 | 444 622 | 560 878 | 646 638 | 564 518 |
| Lead | | | | | | |
| Unwrought | tonnes | 9 316 | 17 070 | 66 405 | 83 391 | 36 051 |
| Scrap | tonnes | 8 427 | 8 824 | 8 034 | 7 818 | 9 700 |
| Lithium | | | | | | |
| Oxides | tonnes | 539 | 217 | 237 | 270 | 178 |
| Carbonate | tonnes | 897 | 854 | 956 | 1 081 | 1 171 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 2 242 | 5 758 | 13 139 | 20 619 | 3 057 |
| Magnesia | tonnes | 377 804 | 362 706 | 392 299 | 644 428 | 558 764 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 10 209 | 7 086 | 11 136 | 14 558 | 35 936 |
| Metal | tonnes | 9 661 | 4 533 | 9 112 | 14 347 | 61 240 |
| Mercury | kilograms | 908 200 | 517 600 | 143 200 | 616 057 | 670 022 |
| Mica | tonnes | 3 383 | 6 320 | 8 540 | 10 005 | 7 524 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 25 896 | 21 723 | 29 337 | 39 710 | 31 781 |
| Metal | tonnes | 192 | 285 | 459 | 141 | 287 |
| Oxides | tonnes | 1 958 | 1 891 | 1 577 | 2 032 | 1 509 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | ... | 10 394 | 8 566 | 9 144 | 3 832 |
| Unwrought | tonnes | 59 920 | 61 898 | 65 504 | 61 516 | 76 469 |
| Unwrought alloys | tonnes | 401 | 47 | 266 | 321 | 343 |
| Scrap | tonnes | 3 083 | 4 398 | 5 585 | 6 582 | 6 738 |
| Oxides | tonnes | 1 728 | 6 764 | 7 683 | 4 632 | 5 654 |
| Crude petroleum | tonnes | 60 427 836 | 54 968 223 | 56 463 347 | 61 377 494 | 62 152 486 |
| Phosphates | tonnes | 822 583 | 964 035 | 922 349 | 724 960 | 776 661 |
| Platinum metals | | | | | | |
| Platinum | kilograms | £16 677 000 | £13 377 000 | £14 194 000 | £11 484 000 | £1 107 000 |
| Platinum metals | kilograms | £7 361 000 | £8 134 000 | £5 463 000 | £6 930 000 | £1 093 000 |
| Potash | | | | | | |
| Sulphate | tonnes | ... | 12 505 | 12 777 | 23 765 | 26 208 |
| Chloride | tonnes | (b) 215 193 | 180 033 | 467 219 | 387 637 | 445 767 |
| Other potassic fertilisers | tonnes | ... | 4 949 | 6 018 | 4 321 | 2 486 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 138 | 44 | 135 | 103 | 141 |
| Other rare earth compounds | tonnes | 3 793 | 1 380 | 2 222 | 2 254 | 1 879 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 406 | 27 | 2 | 7 | 3 |
| Metals | tonnes | 57 | 25 | 38 | 10 | 14 |
| Salt | tonnes | 224 608 | 432 437 | 489 369 | 535 581 | 630 738 |
| Sillimanite | tonnes | 29 657 | 37 966 | 24 106 | 12 975 | 20 001 |
| Silver | | | | | | |
| Metal | kilograms | ... | 131 021 | 140 415 | 139 218 | 139 625 |

Netherlands

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|--------|---------|---------|---------|-------------|-------------|
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 30 101 | 58 270 | 29 631 | 40 439 | 37 083 |
| Sulphur, sublimed & precipitated | tonnes | 34 161 | 55 027 | 210 984 | 104 982 | 37 484 |
| Talc | tonnes | 89 378 | 95 121 | 220 448 | 226 602 | 206 485 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 63 | 15 | 4 | 35 | 12 |
| Tin | | | | | | |
| Unwrought | tonnes | 4 346 | 7 008 | 7 368 | 6 801 | 8 730 |
| Unwrought alloys | tonnes | 1 007 | 1 162 | 1 330 | 1 832 | 1 983 |
| Scrap | tonnes | 609 | 388 | 202 | 155 | 201 |
| Titanium | | | | | | |
| Ilmenite | tonnes | 33 524 | 40 286 | 46 568 | ... | ... |
| Other titanium minerals | tonnes | 70 438 | 64 024 | 76 539 | (c) 154 460 | (c) 127 941 |
| Titanium slag | tonnes | 9 848 | ... | ... | ... | ... |
| Metal | tonnes | 3 099 | 2 806 | 2 676 | 2 835 | 1 857 |
| Oxides | tonnes | 47 008 | 44 525 | 33 290 | 47 957 | 92 334 |
| Tungsten | | | | | | |
| Ores & concentrates | tonnes | 144 | 195 | 342 | 222 | 110 |
| Metal | tonnes | 584 | 80 | 217 | 210 | 204 |
| Carbide | tonnes | 77 | 44 | 18 | 56 | 99 |
| Vanadium | | | | | | |
| Vanadiferous residues | tonnes | 251 | ... | ... | ... | ... |
| Pentoxide | tonnes | 653 | 815 | 865 | 1 718 | 714 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 299 374 | 375 646 | 430 349 | 408 032 | 484 472 |
| Unwrought | tonnes | 152 500 | 126 816 | 160 793 | 143 218 | 144 592 |
| Unwrought alloys | tonnes | 1 536 | 7 633 | 853 | 2 318 | 2 387 |
| Scrap | tonnes | 11 413 | 10 368 | 14 213 | 20 288 | 15 257 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 27 300 | 21 401 | 11 607 | 13 613 | 10 975 |
| Metal | tonnes | 53 | 42 | 52 | 105 | 88 |

Note(s):-

- (a) May include some fluorine
- (b) Including sulphate
- (c) Including ilmenite

Norway

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 15 000 000 | 14 000 000 | 15 000 000 | 15 000 000 | 15 000 000 |
| Crushed rock | tonnes | 36 000 000 | 36 000 000 | 36 000 000 | 37 000 000 | 38 000 000 |
| Primary aluminium | tonnes | 1 034 000 | 1 044 000 | 1 180 200 | 1 318 000 | 1 376 000 |
| Cadmium | tonnes | 371 | 215 | 323 | 141 | 153 |
| Cement, finished | tonnes | 1 870 000 | 1 850 000 | 1 860 000 | 1 870 000 | ... |
| Coal | | | | | | |
| Bituminous (a) | tonnes | 1 787 784 | 2 131 691 | 2 944 000 | 3 018 500 | 1 667 000 |
| Cobalt metal | tonnes | 3 300 | 4 000 | 4 556 | 4 670 | 5 021 |
| Copper, smelter | tonnes | 26 704 | 30 483 | 35 851 | 35 643 | 38 681 |
| Copper, refined | tonnes | 26 700 | 30 600 | 35 852 | 35 643 | 38 681 |
| Feldspar | tonnes | 79 510 | 75 184 | 70 000 | 67 000 | *67 000 |
| Graphite | tonnes | 9 070 | 8 600 | 1 000 | 6 000 | 9 000 |
| Iron ore | tonnes | 395 000 | 490 000 | 410 000 | 586 100 | 713 000 |
| Pig iron | tonnes | 70 000 | 108 000 | *110 000 | *100 000 | *100 000 |
| Crude steel | tonnes | 635 000 | 698 000 | 703 000 | 725 000 | 705 000 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 82 600 | 61 100 | — | — | — |
| Ferro-manganese | tonnes | 111 823 | 126 960 | *130 000 | *130 000 | *130 000 |
| Ferro-silico-manganese | tonnes | 277 938 | 252 723 | *250 000 | *260 000 | *290 000 |
| Ferro-silicon | tonnes | 427 590 | 359 944 | ... | 389 599 | ... |
| Other ferro-alloys | tonnes | 47 600 | 48 500 | *50 000 | *60 000 | *60 000 |
| Silicon metal | tonnes | 134 958 | 152 981 | ... | 193 566 | 178 572 |
| Primary magnesium metal | tonnes | 40 700 | 3 100 | — | — | — |
| Nepheline syenite | tonnes | 330 362 | 330 461 | 332 000 | 329 000 | 320 000 |
| Nickel, mine | tonnes (metal content) | 2 800 | 2 052 | — | 382 | 342 |
| Nickel, smelter/refinery | tonnes | 68 200 | 68 500 | 77 183 | 71 410 | 84 886 |
| Crude petroleum | tonnes | 162 099 000 | 157 847 000 | 153 508 000 | 150 974 000 | 139 802 000 |
| Natural gas | million m³ | 53 895 | 65 501 | 72 905 | 78 351 | 84 702 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | *95 000 | 95 000 | 100 000 | *100 000 | *100 000 |
| Recovered (c) | tonnes (sulphur content) | 18 000 | 19 000 | 20 000 | 18 000 | 19 000 |
| Talc | tonnes | 24 626 | 23 564 | *24 000 | 23 725 | *24 000 |
| Titanium minerals | | | | | | |
| Ilmenite | tonnes | 777 000 | 837 000 | 859 000 | 866 700 | 806 800 |
| Slab zinc | tonnes | 144 694 | 144 538 | 143 627 | 140 901 | 148 000 |

Note(s):-

(1) Norway is believed to produce gold

- (a) Spitzbergen: not including production from mines controlled by the former Soviet Union
- (b) From metal sulphide processing
- (c) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|--------|------------|------------|--------------|--------------|--------------|
| Primary aggregates | tonnes | 10 846 009 | 12 751 398 | 12 300 157 | 12 561 778 | 13 334 212 |
| Aluminium and bauxite | | | | | | |
| Unwrought | tonnes | 156 506 | 135 792 | 150 101 | 150 479 | 147 295 |
| Unwrought alloys | tonnes | 1 031 140 | 992 055 | 1 212 372 | 1 333 251 | 1 365 929 |
| Scrap | tonnes | 37 376 | 40 797 | 37 566 | 39 742 | 38 218 |
| Barytes | tonnes | 9 227 | 5 234 | 11 105 | 15 888 | 1 482 |
| Cadmium | | | | | | |
| Metal | tonnes | 357 | 117 | 237 | 304 | 132 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 156 911 | 98 557 | (a) *109 000 | (a) *108 000 | (a) *179 000 |
| Portland cement | tonnes | 506 741 | 558 861 | (a) *724 000 | (a) *413 000 | (a) *569 000 |
| Chromium | | | | | | |
| Metal | tonnes | 3 | 13 | 141 | 413 | 116 |
| Cobalt | | | | | | |
| Metal | tonnes | 3 322 | 3 941 | 4 635 | 4 744 | 4 997 |

Norway

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-------------|-------------|-------------|--------------|--------------|
| Copper | | | | | | |
| Unwrought | tonnes | 24 681 | 32 302 | 35 392 | 35 632 | 37 430 |
| Unwrought alloys | tonnes | 1 665 | 1 421 | 1 195 | 988 | 1 707 |
| Scrap | tonnes | 17 394 | 15 814 | 25 382 | 21 256 | 22 667 |
| Diamond | | | | | | |
| Gem, cut | carats | 21 000 | 60 000 | ... | 40 000 | 90 000 |
| Feldspar | tonnes | 82 030 | 74 549 | 68 076 | 60 972 | 58 821 |
| Gold | | | | | | |
| Metal | kilograms | 2 647 | 2 554 | 2 527 | 2 293 | 2 415 |
| Waste & scrap | kilograms | 5 007 | 1 102 | 174 | 127 | 137 |
| Graphite | tonnes | 9 032 | 8 129 | ... | — | — |
| Gypsum | | | | | | |
| Crude | tonnes | 19 336 | 19 241 | 27 287 | 30 825 | 49 443 |
| Iodine | kilograms | 64 | 3 000 | 1 509 | — | — |
| Iron ore | | | | | | |
| Iron ore | tonnes | 33 727 | 620 478 | 530 851 | 648 583 | 721 975 |
| Burnt pyrites | tonnes | 46 323 | 62 214 | 62 315 | 117 389 | 14 730 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron (a) | tonnes | *46 600 | *119 400 | *118 400 | *123 700 | *66 800 |
| Ferro-chrome (a) | tonnes | *76 100 | *87 500 | *1 900 | *600 | *200 |
| Ferro-manganese (a) | tonnes | *193 000 | *169 600 | *213 700 | *338 900 | *272 100 |
| Ferro-silico-manganese | tonnes | 275 291 | 240 477 | 255 243 | 264 163 | 289 497 |
| Ferro-silicon | tonnes | 324 858 | 251 252 | 194 246 | 256 018 | 179 503 |
| Other ferro-alloys | tonnes | 48 994 | 49 366 | 53 913 | 59 696 | 55 564 |
| Silicon metal | tonnes | 153 017 | 150 681 | 151 476 | 176 458 | 168 790 |
| Ingots, blooms, billets | tonnes | 110 888 | 126 094 | 160 127 | 148 514 | 151 882 |
| Scrap | tonnes | 150 020 | 227 592 | 263 510 | 270 903 | 267 051 |
| Lead | | | | | | |
| Scrap | tonnes | 15 693 | 5 188 | 987 | 601 | 1 013 |
| Mica | tonnes | 1 760 | 2 155 | 2 413 | 2 076 | 2 003 |
| Nickel | | | | | | |
| Ores & concentrates | tonnes | 30 142 | 25 902 | 6 268 | 9 575 | 7 581 |
| Unwrought | tonnes | 65 829 | 67 718 | 78 389 | 71 982 | 84 012 |
| Scrap | tonnes | 255 | 139 | 264 | 909 | 897 |
| Crude petroleum | tonnes | 146 645 926 | 139 103 257 | 135 201 186 | 129 935 579 | 119 119 538 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 6 659 | 10 986 | 11 150 | 13 360 | 11 871 |
| Waste & scrap | kilograms | 2 639 | 76 801 | 616 | 384 | 342 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 12 006 | 3 869 | 10 964 | 10 107 | 7 611 |
| Salt | tonnes | 1 994 | 3 687 | 4 657 | 4 948 | 6 679 |
| Silver | | | | | | |
| Metal | kilograms | 74 774 | 64 962 | 62 669 | 69 207 | 66 139 |
| Sulphur and pyrites | | | | | | |
| Sulphur, sublimed & precipitated | tonnes | 11 504 | 11 630 | 12 194 | 2 671 | — |
| Talc | tonnes | 30 480 | 32 894 | 32 520 | 30 279 | 28 448 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 429 000 | 443 833 | 500 000 | (a) *416 000 | (a) *382 000 |
| Metal | tonnes | 117 | 103 | 214 | 182 | 159 |
| Oxides (a) | tonnes | *231 000 | *240 000 | *229 000 | *193 000 | *177 000 |
| Zinc | | | | | | |
| Unwrought | tonnes | 113 170 | 133 006 | 125 896 | 127 410 | 134 690 |
| Unwrought alloys | tonnes | 13 990 | 6 704 | 6 245 | 6 710 | 5 600 |

Note(s):-

(a) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 91 192 | 66 824 | 71 837 | 85 471 | 67 562 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 34 811 | 20 898 | 22 147 | 9 035 | 16 601 |
| Alumina | tonnes | 1 977 187 | 2 063 999 | 2 267 237 | 2 620 149 | 2 723 588 |
| Alumina hydrate | tonnes | 37 426 | 42 984 | 42 487 | 42 775 | 45 957 |
| Unwrought | tonnes | 163 090 | 225 972 | 277 122 | 325 514 | 328 722 |
| Unwrought alloys | tonnes | 60 982 | 56 209 | 24 473 | 29 974 | 42 056 |
| Scrap | tonnes | 95 290 | 100 006 | 113 228 | 70 430 | 20 806 |
| Antimony | | | | | | |
| Metal | tonnes | 9 | 3 | 8 | 0 | 71 |
| Oxide | tonnes | 157 | 234 | 351 | 775 | 305 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 44 | 36 | 0 | — | — |
| Barytes | tonnes | 145 445 | 110 755 | 115 402 | 129 547 | 109 802 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 11 476 | 11 618 | 13 963 | 13 667 | 10 000 |
| Cement | | | | | | |
| Portland cement | tonnes | 192 678 | 186 529 | 188 442 | 236 622 | 373 788 |
| Other cement | tonnes | 7 224 | 5 549 | 5 026 | 10 738 | 12 319 |
| Chromium | | | | | | |
| Ores & concentrates (a) | tonnes | *176 000 | *51 000 | *600 | *400 | *500 |
| Metal | tonnes | 89 | 53 | 47 | 88 | 92 |
| Coal | | | | | | |
| Anthracite (b) | tonnes | 105 585 | 56 263 | 84 858 | 71 785 | 92 673 |
| Other coal (b) | tonnes | 684 305 | 598 378 | 586 775 | 693 106 | 575 921 |
| Lignite (b) | tonnes | 35 000 | 1 308 | 9 | 67 | 0 |
| Cobalt | | | | | | |
| Metal | tonnes | 2 196 | 3 131 | 4 773 | 9 629 | 5 775 |
| Oxides | tonnes | 113 | 41 | 22 | 4 | 9 |
| Copper | | | | | | |
| Unwrought | tonnes | 3 500 | 3 645 | 1 190 | 2 594 | 3 190 |
| Scrap | tonnes | 7 647 | 7 609 | 12 591 | 11 270 | 12 420 |
| Diamond | | | | | | |
| Unsorted | carats | 45 000 | 100 000 | 125 000 | 45 000 | ... |
| Gem | carats | 1 965 000 | 2 330 000 | 2 165 000 | 2 430 000 | 2 895 000 |
| Industrial | carats | 90 000 | 80 000 | 80 000 | 75 000 | 135 000 |
| Dust | carats | 220 000 | 500 000 | 105 000 | 310 000 | 230 000 |
| Diatomite | tonnes | 2 021 | 1 400 | 1 596 | 2 500 | 2 044 |
| Feldspar | tonnes | 14 040 | 13 589 | 13 710 | 15 490 | 17 103 |
| Fluorspar | tonnes | 38 862 | 13 589 | — | — | ... |
| Gold | | | | | | |
| Metal | kilograms | 3 501 | 2 927 | 1 599 | 1 253 | 2 099 |
| Waste & scrap | kilograms | 1 115 | 1 613 | 776 | 987 | 1 049 |
| Graphite | tonnes | 347 | 615 | 502 | 548 | 423 |
| Gypsum | | | | | | |
| Crude | tonnes | 36 175 | 59 945 | 49 398 | 109 069 | 119 962 |
| Calcined | tonnes | 308 328 | 315 517 | 295 160 | 259 001 | 274 006 |
| Iodine | kilograms | 118 903 | 684 000 | 1 105 811 | 1 294 934 | 1 748 110 |
| Iron ore | tonnes | 224 442 | 206 650 | 178 025 | 495 047 | 526 713 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 18 207 | 16 844 | 14 639 | 8 823 | 10 841 |
| Sponge & powder | tonnes | 44 037 | 48 170 | 45 271 | 38 519 | 13 729 |
| Ferro-chrome | tonnes | 762 | 499 | 571 | 860 | 1 251 |
| Ferro-manganese | tonnes | 10 848 | 3 987 | 5 921 | 9 703 | 6 154 |
| Ferro-silico-manganese | tonnes | 19 | 716 | 3 560 | 933 | 1 071 |
| Ferro-silicon | tonnes | 13 610 | 14 177 | 19 180 | 11 684 | 25 663 |
| Other ferro-alloys | tonnes | 2 145 | 1 543 | 2 016 | 1 679 | 1 877 |
| Silicon metal | tonnes | 8 649 | 8 629 | 13 424 | 17 653 | 26 714 |
| Ingots, blooms, billets | tonnes | 161 217 | 132 220 | 101 819 | 150 611 | 142 986 |
| Scrap | tonnes | 334 136 | 347 080 | 381 683 | 416 062 | 345 634 |
| Kaolin | tonnes | 251 950 | 234 592 | 241 975 | 237 725 | 250 879 |
| Lead | | | | | | |
| Unwrought | tonnes | 3 213 | 3 971 | 2 024 | 2 970 | 4 882 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 4 013 | 3 148 | 3 736 | 2 587 | 2 125 |
| Magnesia | tonnes | 403 | 130 | 190 | 1 643 | 500 |

Norway

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|---------|---------|---------|-----------|-----------|
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 711 545 | 660 348 | 803 971 | 1 132 985 | 1 172 711 |
| Metal | tonnes | 1 699 | 2 155 | 3 069 | 3 610 | 2 976 |
| Mercury | kilograms | 347 | 99 | 38 | 42 | 65 |
| Mica | tonnes | 2 426 | 1 174 | 1 759 | 1 559 | 1 001 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 131 096 | 145 072 | 158 897 | 136 200 | 176 657 |
| Unwrought (c) | tonnes | 134 | 138 | 46 | 222 | 80 |
| Crude petroleum | tonnes | 956 019 | 590 064 | 562 851 | 440 346 | 983 848 |
| Phosphates | tonnes | 638 449 | 664 834 | 666 188 | 646 319 | 710 528 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 1 231 | 984 | 747 | 973 | 1 076 |
| Waste & scrap | kilograms | 641 | 840 | 87 | 59 | 998 |
| Potash | | | | | | |
| Sulphate | tonnes | 211 169 | 200 407 | 249 307 | 267 653 | 247 379 |
| Chloride | tonnes | 331 063 | 339 431 | 310 954 | 309 061 | 306 369 |
| Rare earths | | | | | | |
| Metals | tonnes | 775 | 558 | 713 | 702 | 544 |
| Salt | tonnes | 718 394 | 725 887 | 702 713 | 741 959 | 910 846 |
| Sillimanite | tonnes | 4 793 | 2 537 | 2 004 | 3 605 | 2 400 |
| Silver | | | | | | |
| Metal | kilograms | 84 784 | 60 995 | 72 647 | 86 037 | 90 331 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 151 438 | 225 139 | 225 492 | 225 513 | 26 940 |
| Sulphur | tonnes | 1 542 | 1 567 | 628 | 4 559 | 16 413 |
| Sulphur, sublimed & precipitated | tonnes | ... | ... | ... | ... | 240 |
| Talc | tonnes | 8 762 | 11 557 | 14 737 | 14 522 | 16 488 |
| Tin | | | | | | |
| Unwrought | tonnes | 560 | 458 | 382 | 47 | 21 |
| Unwrought alloys | tonnes | 111 | 176 | 71 | 79 | 57 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | ... | ... | ... | ... | 33 000 |
| Metal | tonnes | 623 | 386 | 557 | 505 | 636 |
| Oxides | tonnes | 9 617 | 7 931 | 8 729 | 10 026 | 11 924 |
| Vanadium | | | | | | |
| Metal | tonnes | 51 | 41 | 55 | 32 | 10 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 233 797 | 220 879 | 221 754 | 231 563 | 255 158 |

Note(s):-

- (a) BGS estimates, based on known exports from certain countries
- (b) Excludes coal imported from Spitzbergen
- (c) Including alloys

Poland

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------|---------------------------|-------------|-------------|-------------|-------------|---------------|
| Primary aggregates | | | | | | |
| Sand and gravel (a) | tonnes | 60 039 000 | 60 186 000 | 71 376 000 | *60 000 000 | *77 000 000 |
| Crushed rock | tonnes | 25 593 000 | 25 875 000 | 26 404 000 | 29 271 189 | 33 098 450 |
| Primary aluminium | tonnes | 52 600 | 52 200 | 52 600 | 54 200 | 53 600 |
| Barytes | tonnes | — | 2 708 | 3 030 | 3 183 | 2 357 |
| Cadmium | tonnes | 330 | 440 | 375 | 356 | 408 |
| Cement clinker | tonnes | 9 335 062 | 8 811 639 | 8 647 397 | 9 620 601 | 9 468 410 |
| Cement, finished | tonnes | 12 069 941 | 11 206 439 | 11 653 448 | 12 837 083 | 12 646 223 |
| Coal | | | | | | |
| Bituminous | tonnes | 103 991 700 | 103 546 000 | 103 016 400 | 100 087 100 | 97 903 730 |
| Lignite | tonnes | 59 557 400 | 58 209 600 | 60 919 100 | 61 197 500 | 61 636 445 |
| Copper, mine | tonnes (metal content) | 474 000 | 502 800 | 503 544 | 530 768 | 511 799 |
| Copper, smelter | tonnes | 485 869 | 510 725 | 559 960 | 547 228 | 555 681 |
| Copper, refined | tonnes | 498 451 | 508 674 | 529 616 | 550 066 | 560 256 |
| Diatomite | tonnes | *1 000 | *1 000 | *700 | *800 | *700 |
| Feldspar | tonnes | 145 980 | 209 226 | 276 264 | 373 459 | 426 914 |
| Gold, mine (b) | kilograms (metal content) | 349 | 296 | 356 | 527 | 713 |
| Gypsum | | | | | | |
| Gypsum | tonnes | 793 684 | 866 674 | 1 030 693 | 970 786 | (f) 1 242 875 |
| Anhydrite | tonnes | 300 356 | 280 031 | 297 088 | 301 161 | ... |
| Pig iron | tonnes | 5 440 047 | 5 296 410 | 5 585 094 | 6 292 341 | 4 458 161 |
| Crude steel | tonnes | 8 809 211 | 8 367 434 | 9 107 384 | 10 578 482 | 8 335 898 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | — | 106 | 188 | — | — |
| Ferro-manganese | tonnes | 497 | 602 | 979 | 46 898 | 7 782 |
| Ferro-silico-manganese | tonnes | 20 007 | 7 338 | *7 000 | — | 10 242 |
| Ferro-silicon | tonnes | 48 608 | 41 759 | 92 687 | 83 552 | 65 118 |
| Other ferro-alloys | tonnes | 4 039 | 4 200 | — | 1 419 | 3 663 |
| Kaolin (c) | tonnes | 103 220 | 89 372 | 106 761 | 130 596 | 159 207 |
| Lead, mine | tonnes (metal content) | 52 600 | 56 600 | 54 700 | 52 700 | 50 900 |
| Lead, refined | tonnes | 66 000 | 65 800 | 74 300 | 73 900 | 87 800 |
| Magnesite | tonnes | 22 200 | 22 100 | 27 200 | 57 900 | *58 000 |
| Crude petroleum | tonnes | 767 004 | 727 973 | 764 806 | 886 188 | 847 844 |
| Natural gas | million m ³ | 5 179 | 5 263 | 5 315 | 5 630 | 5 742 |
| Salt | | | | | | |
| Rock salt | tonnes | 786 609 | 838 858 | 847 880 | 1 099 072 | 1 123 219 |
| Brine salt | tonnes | 2 688 929 | 2 719 131 | 2 790 996 | 2 940 169 | 2 889 941 |
| Selenium metal | tonnes | 65 | 68 | 78 | 83 | 82 |
| Silver, mine | kilograms (metal content) | 1 230 700 | 1 343 000 | 1 332 200 | 1 372 700 | 1 262 400 |
| Sulphur and pyrites | | | | | | |
| Frasch | tonnes (sulphur content) | 942 252 | 760 320 | 762 689 | 821 489 | 801 799 |
| Recovered (d) | tonnes (sulphur content) | *280 000 | *275 000 | 293 700 | 289 100 | *290 000 |
| Recovered (e) | tonnes (sulphur content) | 27 602 | 22 777 | 23 384 | 23 767 | 22 193 |
| Zinc, mine | tonnes (metal content) | 152 700 | 152 100 | 154 277 | 140 381 | 135 600 |
| Slab zinc | tonnes | 174 700 | 158 900 | 154 200 | 155 500 | 137 300 |

Note(s):-

(1) Poland is believed to produce strontium minerals

(a) Includes an estimate for small producers

(b) Metal production

(c) Washed

(d) From metal sulphide processing

(e) From petroleum refining and/or natural gas

(f) Including anhydrite

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|--------|---------|---------|---------|---------|-----------|
| Primary aggregates | tonnes | 867 725 | 435 628 | 393 090 | 790 734 | 1 237 482 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 30 519 | 32 349 | 52 132 | 70 740 | 81 962 |
| Scrap | tonnes | 62 915 | 65 404 | 63 022 | 71 525 | 82 875 |

Poland

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | ... | ... | ... | ... | 12 002 |
| Bromine | kilograms | 3 000 | 2 000 | ... | ... | 3 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 198 | 49 | 697 | 665 | 610 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 2 894 | 6 461 | 87 470 | 226 981 | 256 621 |
| Portland cement | tonnes | 757 302 | 370 832 | 262 290 | 341 112 | 460 479 |
| Other cement | tonnes | 134 130 | 98 766 | 7 406 | 7 059 | 49 970 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 145 | 1 533 | ... | 117 | 25 |
| Metal | tonnes | 140 | 73 | 181 | 0 | 1 |
| Coal | | | | | | |
| Anthracite | tonnes | 79 908 | 6 677 | 71 646 | 8 599 | 23 331 |
| Other coal | tonnes | 22 946 136 | 22 608 910 | 20 044 204 | 19 684 005 | 20 816 121 |
| Lignite | tonnes | 14 789 | 41 287 | 35 824 | 26 929 | 8 211 |
| Cobalt | | | | | | |
| Metal | tonnes | 57 | 1 | ... | 26 | 19 |
| Copper | | | | | | |
| Unwrought | tonnes | 226 889 | 279 803 | 278 113 | 275 089 | 290 462 |
| Unwrought alloys | tonnes | 4 680 | 5 020 | 5 329 | 5 007 | 6 183 |
| Scrap | tonnes | 22 351 | 22 529 | 40 542 | 42 763 | 47 463 |
| Feldspar | tonnes | 562 | 649 | 1 626 | 1 441 | 1 509 |
| Gold | | | | | | |
| Metal | kilograms | 113 | 1 210 | 249 | ... | 100 |
| Waste & scrap | kilograms | 2 767 | 3 239 | 8 477 | 4 074 | 1 100 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 21 449 | 21 259 | 24 706 | 29 467 | 33 277 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 40 670 | 3 003 | 16 023 | 57 696 | 4 917 |
| Ferro-manganese & Fe-Si-Mn | tonnes | 20 | 3 637 | 1 451 | 66 666 | 22 713 |
| Ferro-silicon | tonnes | 50 649 | 43 021 | 84 406 | 85 538 | 64 974 |
| Other ferro-alloys | tonnes | 10 522 | 96 | 86 | 195 | 915 |
| Ingots, blooms, billets | tonnes | 948 473 | 1 034 776 | 975 777 | 1 585 494 | 1 249 618 |
| Scrap | tonnes | 1 269 594 | 1 535 305 | 1 804 181 | 1 973 116 | 1 426 831 |
| Kaolin | tonnes | 6 321 | 3 538 | 10 408 | 9 941 | 6 194 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 73 989 | 77 493 | 86 395 | 94 126 | 92 226 |
| Unwrought | tonnes | 44 691 | 38 602 | 42 518 | 39 287 | 44 008 |
| Scrap | tonnes | 1 921 | 2 107 | 2 408 | 963 | 1 652 |
| Mercury | kilograms | 82 000 | 24 000 | ... | 2 | 3 000 |
| Nickel | | | | | | |
| Oxides | tonnes | 125 | 146 | 339 | 468 | 529 |
| Crude petroleum | tonnes | 439 625 | 450 000 | 161 074 | 138 253 | 216 256 |
| Phosphates | tonnes | 2 700 | 2 511 | ... | 507 | 1 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 43 | 872 | 308 | 470 | 800 |
| Waste & scrap | kilograms | 27 622 | 6 543 | 52 366 | 33 019 | 1 000 |
| Salt | tonnes | 375 944 | 339 140 | 419 201 | 493 259 | 495 481 |
| Silver | | | | | | |
| Metal | kilograms | 1 094 153 | 1 135 000 | 1 251 194 | 821 501 | 318 800 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 773 373 | 597 905 | 530 180 | 560 340 | 575 796 |
| Titanium | | | | | | |
| Oxides | tonnes | 24 215 | 30 457 | 23 977 | 20 818 | 24 394 |
| Tungsten | | | | | | |
| Metal | tonnes | 113 | 1 | 34 | 89 | 84 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 29 223 | 61 378 | 64 486 | 44 257 | 63 913 |
| Unwrought | tonnes | 86 067 | 78 497 | 65 661 | 72 820 | 74 938 |
| Unwrought alloys | tonnes | 2 391 | 1 844 | 1 330 | 850 | 857 |
| Scrap | tonnes | 2 497 | 1 463 | 136 | 269 | 797 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 1 428 456 | 1 252 285 | 1 527 892 | 1 756 513 | 1 775 291 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 37 835 | 49 504 | 67 966 | 82 233 | 59 758 |
| Alumina | tonnes | 109 044 | 97 085 | 120 733 | 124 274 | 102 845 |
| Alumina hydrate | tonnes | 25 766 | 25 562 | 25 572 | 26 927 | 29 538 |
| Unwrought | tonnes | 49 259 | 74 302 | 88 008 | 85 010 | 62 403 |
| Unwrought alloys | tonnes | 68 294 | 73 770 | 94 090 | 119 305 | 140 792 |
| Scrap | tonnes | 12 080 | 9 616 | 13 472 | 31 536 | 39 907 |
| Antimony | | | | | | |
| Metal | tonnes | 53 | 10 | 49 | 80 | 28 |
| Oxide | tonnes | 611 | 711 | 920 | 1 042 | 1 231 |
| Arsenic | | | | | | |
| White arsenic | tonnes | 63 | 36 | 32 | ... | ... |
| Metallic arsenic | tonnes | 11 | 30 | — | 14 | 39 |
| Asbestos | tonnes | 19 | 19 | — | 16 | 6 |
| Barytes | tonnes | 7 358 | 6 571 | 8 318 | 6 593 | 7 744 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 64 986 | 68 020 | 93 915 | 126 127 | 115 208 |
| Fuller's earth | tonnes | 797 | 1 432 | 1 263 | 1 749 | 2 566 |
| Bismuth | | | | | | |
| Metal | tonnes | 8 | 4 | 4 | 6 | 14 |
| Bromine | kilograms | 14 000 | 6 000 | 2 000 | (a) 9 348 | 6 000 |
| Cadmium | | | | | | |
| Oxide | tonnes | 4 | 38 | ... | ... | ... |
| Cement | | | | | | |
| Cement clinkers | tonnes | 251 458 | 66 800 | 70 207 | 13 746 | 33 673 |
| Portland cement | tonnes | 328 347 | 630 256 | 699 379 | 540 342 | 444 855 |
| Other cement | tonnes | 17 313 | 23 531 | 16 352 | 2 323 | 5 537 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 26 128 | 8 461 | 10 977 | 13 053 | 9 391 |
| Metal | tonnes | 20 | 18 | 29 | 242 | 54 |
| Coal | | | | | | |
| Anthracite | tonnes | 41 730 | 37 788 | 49 745 | 168 095 | 263 929 |
| Other coal | tonnes | 1 857 741 | 2 729 972 | 2 506 316 | 2 231 606 | 3 112 462 |
| Cobalt | | | | | | |
| Metal | tonnes | 53 | 44 | 49 | 44 | 35 |
| Oxides | tonnes | 38 | 33 | 16 | 37 | 121 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | ... | 5 397 | ... | 30 | 43 504 |
| Unwrought | tonnes | 2 135 | 1 484 | 2 257 | 3 071 | 7 118 |
| Scrap | tonnes | 3 722 | 5 203 | 6 001 | 14 973 | 5 855 |
| Diamond | | | | | | |
| Gem | carats | 10 000 | 15 000 | 50 000 | ... | ... |
| Industrial | carats | 165 000 | 105 000 | 75 000 | ... | ... |
| Diatomite | tonnes | 7 284 | 6 961 | 6 394 | 6 387 | 6 465 |
| Feldspar | tonnes | 144 145 | 168 167 | 155 283 | 201 509 | 215 185 |
| Fluorspar | tonnes | 4 789 | 5 609 | 5 858 | 7 501 | 6 290 |
| Gold | | | | | | |
| Metal | kilograms | 985 | 774 | 588 | 2 301 | 100 |
| Graphite | tonnes | 2 856 | 2 700 | 3 150 | 3 089 | 3 028 |
| Gypsum | | | | | | |
| Crude | tonnes | 22 813 | 46 123 | 101 589 | 163 227 | 150 622 |
| Calcined | tonnes | 125 354 | 124 727 | 123 919 | 100 886 | 91 356 |
| Iodine | kilograms | 20 000 | 13 312 | 23 875 | 18 687 | 10 200 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 6 378 630 | 5 674 667 | 6 817 467 | 8 627 650 | 5 785 200 |
| Burnt pyrites | tonnes | 1 322 662 | 1 273 170 | 1 764 657 | 2 303 655 | 1 003 456 |

Poland

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-------------|------------|------------|------------|------------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 146 508 | 103 349 | 86 108 | 150 163 | 239 240 |
| Sponge & powder | tonnes | 1 876 | 13 193 | 34 091 | 34 456 | 24 490 |
| Ferro-chrome | tonnes | 7 729 | 7 716 | 8 073 | 10 352 | 10 863 |
| Ferro-manganese | tonnes | 43 277 | 42 851 | 37 530 | 46 414 | 29 230 |
| Ferro-silico-manganese | tonnes | 28 401 | 40 023 | 53 968 | 64 985 | 51 197 |
| Ferro-molybdenum | tonnes | 809 | 833 | 829 | 1 138 | 1 178 |
| Ferro-silicon | tonnes | 24 657 | 25 664 | 27 132 | 29 551 | 22 769 |
| Ferro-vanadium | tonnes | 386 | 308 | 228 | 393 | 313 |
| Other ferro-alloys | tonnes | 6 424 | 6 431 | 6 322 | 7 454 | 11 871 |
| Silicon metal | tonnes | 5 665 | 6 208 | 10 586 | 9 967 | 9 243 |
| Ingots, blooms, billets | tonnes | 48 142 | 31 962 | 85 027 | 191 722 | 298 314 |
| Scrap | tonnes | 104 820 | 69 947 | 96 426 | 278 271 | 238 113 |
| Kaolin | tonnes | 66 759 | 77 155 | 81 181 | 89 139 | 90 931 |
| Lead | | | | | | |
| Unwrought | tonnes | 33 400 | 43 821 | 47 030 | 50 189 | 53 095 |
| Lithium | | | | | | |
| Oxides | tonnes | 39 | 69 | 74 | 132 | 136 |
| Carbonate | tonnes | 46 | 55 | 56 | 117 | 128 |
| Magnesite and magnesia | tonnes | 69 772 | 73 266 | 77 830 | 82 164 | 71 774 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 43 603 | 14 597 | 10 037 | 205 290 | 38 845 |
| Metal | tonnes | 1 834 | 821 | 432 | 652 | 499 |
| Mercury | kilograms | 7 000 | 21 976 | 3 875 | 4 456 | 15 700 |
| Mica | tonnes | 820 | 557 | 486 | 878 | 547 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 111 | 16 | 1 | 8 | 1 |
| Metal | tonnes | 54 | 84 | 36 | 142 | 102 |
| Nickel | | | | | | |
| Unwrought (b) | tonnes | 2 307 | 1 561 | 1 589 | 2 207 | 1 683 |
| Crude petroleum | tonnes | 17 558 327 | 16 400 000 | 17 448 290 | 17 316 135 | 17 639 489 |
| Phosphates | tonnes | 1 636 053 | 1 407 541 | 1 452 726 | 1 885 350 | 1 558 007 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 293 | 208 | 402 | ... | ... |
| Potash | | | | | | |
| Fertiliser salts | tonnes | ... | 1 245 | 948 | 2 264 | 621 |
| Sulphate | tonnes | ... | 18 752 | 19 967 | 24 143 | 21 770 |
| Chloride | tonnes | (c) 742 114 | 754 473 | 821 469 | 1 098 679 | 1 041 798 |
| Other potassic fertilisers | tonnes | ... | 2 877 | 5 223 | 4 174 | 4 726 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 70 | 77 | 245 | 61 | 118 |
| Metals | tonnes | 1 | 1 | ... | 3 | 6 |
| Salt | tonnes | 95 520 | 156 461 | 156 406 | 294 590 | 376 829 |
| Sillimanite | | | | | | |
| Sillimanite | tonnes | 11 872 | 16 182 | 17 682 | 14 928 | 9 975 |
| Mullite | tonnes | 963 | 659 | 1 974 | 1 355 | 2 207 |
| Silver | | | | | | |
| Metal | kilograms | 22 372 | 18 297 | 36 266 | 34 563 | 40 100 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 402 | 504 | 1 933 | 1 061 | 1 013 |
| Sulphur | tonnes | 70 246 | 98 279 | 88 544 | 78 292 | 78 274 |
| Sulphur, sublimed & precipitated | tonnes | 239 | 120 | 97 | 11 | 3 |
| Talc | tonnes | 14 274 | 17 989 | 18 342 | 16 155 | 20 536 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 14 | 0 | ... | 1 | 1 |
| Tin | | | | | | |
| Unwrought (b) | tonnes | 1 010 | 1 344 | 1 077 | 1 367 | 1 437 |
| Scrap | tonnes | ... | ... | ... | 697 | 705 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 95 674 | 73 655 | 101 284 | 98 214 | 100 539 |
| Metal | tonnes | 182 | 163 | 151 | 271 | 328 |
| Oxides | tonnes | 24 027 | 30 029 | 30 546 | 29 710 | 33 417 |
| Tungsten | | | | | | |
| Metal | tonnes | 276 | 68 | 42 | 46 | 108 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|---------|---------|---------|--------|
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 118 106 | 112 193 | 113 990 | 114 800 | 78 746 |
| Unwrought (b) | tonnes | 10 113 | 14 789 | 22 182 | 31 603 | 26 670 |
| Scrap | tonnes | 261 | 251 | 656 | 4 636 | 3 899 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 2 002 | 1 207 | 1 056 | 1 085 | 870 |
| Metal | tonnes | 29 | 13 | 2 | 23 | 6 |

Note(s):-

- (a) May include some fluorine
- (b) Including alloys
- (c) Including sulphate and fertiliser salts

Portugal

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------------------------|----------------|---------------|---------------|---------------|---------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 9 852 769 | 7 514 159 | 6 483 435 | ... | ... |
| Crushed rock | tonnes | 61 453 129 | 86 055 000 | 83 462 955 | ... | ... |
| White arsenic | tonnes | *50 | *50 | *50 | *50 | *50 |
| Cement clinker | tonnes | ... | ... | 845 594 | 1 082 678 | 1 629 687 |
| Cement, finished | tonnes | (b) 10 162 310 | (c) 9 760 964 | (c) 8 485 826 | (c) 8 764 316 | (c) 8 279 418 |
| Copper, mine | tonnes (metal content) | 82 965 | 77 227 | 77 581 | 95 700 | 89 500 |
| Diatomite | tonnes | 387 | — | — | — | — |
| Feldspar | tonnes | 112 923 | 141 125 | 129 366 | 98 262 | *100 000 |
| Gypsum | tonnes | 787 646 | 579 143 | 419 799 | ... | ... |
| Pig iron | tonnes | 82 000 | — | — | — | — |
| Crude steel | tonnes | 727 000 | 894 000 | 1 000 000 | 1 400 000 | 1 400 000 |
| Kaolin | tonnes | 148 706 | 147 448 | 169 669 | *170 000 | ... |
| Lead, refined | tonnes | *6 000 | *6 000 | *6 000 | *6 000 | *6 000 |
| Lithium minerals | | | | | | |
| Lepidolite | tonnes | 11 571 | 16 325 | 24 606 | 28 696 | ... |
| Salt | | | | | | |
| Rock salt | tonnes | 625 785 | 604 969 | 602 035 | 661 704 | ... |
| Sea salt | tonnes | 76 653 | 40 139 | 86 603 | 75 400 | 92 495 |
| Silver, mine | kilograms (metal content) | 23 100 | 19 500 | 21 100 | 24 400 | 23 700 |
| Sulphur and pyrites | | | | | | |
| Recovered | tonnes (sulphur content) | 35 000 | 28 000 | 27 000 | 25 000 | 30 000 |
| Talc | tonnes | 8 362 | 8 279 | 5 460 | 6 231 | ... |
| Tin, mine | tonnes (metal content) | 1 201 | 345 | 203 | 200 | 200 |
| Tungsten, mine (a) | tonnes (metal content) | 700 | 693 | 715 | 746 | 850 |
| Uranium, mine | tonnes (metal content) | 4 | 2 | — | — | — |

Note(s):-

(1) Portugal is a small producer of tantalum bearing tin slags but no detailed information is available

(a) Wolframite and scheelite

(b) Portland cement only

(c) Portland cement, excluding white cement

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | tonnes | 54 077 | 31 516 | 31 257 | 53 451 | 138 939 |
| Aluminium and bauxite | | | | | | |
| Unwrought alloys | tonnes | 96 207 | 84 709 | 111 732 | 105 837 | 140 505 |
| Scrap | tonnes | 19 266 | 24 671 | 19 513 | 28 576 | 41 797 |
| Cement | | | | | | |
| Cement clinkers | tonnes | ... | 41 626 | 117 332 | 148 984 | 1 271 578 |
| Portland cement | tonnes | 35 442 | 59 628 | 114 182 | 286 819 | 1 110 739 |
| Other cement | tonnes | 5 109 | 5 815 | 6 081 | 13 267 | 17 301 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 368 150 | 196 709 | 286 781 | 346 534 | 375 312 |
| Unwrought | tonnes | 36 | 415 | 747 | 1 165 | 9 356 |
| Scrap | tonnes | 14 353 | 18 236 | 24 440 | 35 927 | 33 583 |
| Diamond | | | | | | |
| Gem, rough | carats | £37 983 000 | £1 793 000 | £3 650 000 | £96 000 | — |
| Gem, cut | carats | £26 769 000 | £23 412 000 | £37 983 000 | £45 779 000 | £17 981 000 |
| Diatomite | tonnes | ... | ... | 2 050 | 7 755 | 11 |
| Feldspar | tonnes | 147 | 603 | 5 | — | 1 546 |
| Gold | | | | | | |
| Waste & scrap | kilograms | ... | ... | ... | 192 759 | 4 800 |
| Iron, steel and ferro-alloys | | | | | | |
| Ingots, blooms, billets | tonnes | 44 980 | 15 058 | 33 032 | 184 547 | 159 868 |
| Scrap | tonnes | 246 777 | 231 761 | 201 189 | 259 297 | 330 536 |
| Kaolin | tonnes | 11 944 | 15 318 | 10 131 | 11 383 | 31 484 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|--------|--------|--------|-------|--------|--------|
| Lead | | | | | | |
| Unwrought | tonnes | 567 | 3 769 | 2 367 | 1 988 | 1 269 |
| Scrap | tonnes | 3 506 | 2 733 | 3 502 | 3 452 | 4 127 |
| Salt | tonnes | 3 656 | 4 413 | 3 952 | 4 444 | 6 130 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 14 009 | 20 172 | 9 847 | 10 838 | 28 122 |
| Sulphur, sublimed & precipitated | tonnes | 1 | 509 | 408 | 121 | 80 |
| Talc | tonnes | 93 | 150 | 204 | 1 117 | 1 614 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 24 | ... | 18 | 42 | 15 |
| Tin | | | | | | |
| Concentrates | tonnes | 2 395 | 537 | 266 | 147 | — |
| Tungsten | | | | | | |
| Ores & concentrates | tonnes | 914 | 588 | ... | 900 | 1 425 |
| Metal | tonnes | 415 | 693 | 143 | 217 | 12 |
| Zinc | | | | | | |
| Scrap | tonnes | 682 | 1 001 | 1 198 | 1 855 | 2 050 |

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | tonnes | 750 486 | 867 165 | 641 696 | 790 615 | 698 717 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 10 638 | 9 820 | 10 152 | 9 257 | 6 250 |
| Unwrought | tonnes | 5 072 | 5 276 | 7 903 | 10 903 | 13 941 |
| Unwrought alloys | tonnes | 169 878 | 167 619 | 185 279 | 200 335 | 224 631 |
| Scrap | tonnes | 2 746 | 9 043 | 1 755 | 4 214 | 2 651 |
| Antimony | | | | | | |
| Metal | tonnes | 3 | 10 | 10 | 6 | 5 |
| Oxide | tonnes | 331 | 254 | 147 | 242 | 137 |
| Asbestos | tonnes | 5 505 | 7 137 | 1 568 | 474 | 356 |
| Barytes | tonnes | 2 721 | 2 607 | 3 589 | 2 630 | 5 382 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 16 376 | 16 115 | 14 208 | 17 907 | 16 881 |
| Fuller's earth | tonnes | 47 | 351 | 936 | 662 | 483 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 917 322 | 5 421 | 7 715 | 8 775 | 17 084 |
| Portland cement | tonnes | 1 497 434 | 1 485 581 | 1 225 167 | 1 066 969 | 669 272 |
| Other cement | tonnes | 17 671 | 11 842 | 50 576 | 65 793 | 10 479 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 2 569 | 2 334 | 2 062 | 1 547 | 2 599 |
| Coal | | | | | | |
| Anthracite | tonnes | 209 725 | 211 583 | 276 685 | 30 630 | 48 785 |
| Other coal | tonnes | 4 459 459 | 5 627 373 | 5 084 416 | 5 241 255 | 5 386 968 |
| Copper | | | | | | |
| Unwrought | tonnes | 3 637 | 4 307 | 6 245 | 7 740 | 4 572 |
| Scrap | tonnes | 1 265 | 838 | 1 383 | 1 874 | 3 329 |
| Diamond | | | | | | |
| Gem, rough | carats | £20 914 000 | £24 832 000 | £26 362 000 | £18 757 000 | £10 968 000 |
| Gem, cut | carats | £8 758 000 | £5 367 000 | £3 926 000 | £11 608 000 | £7 015 000 |
| Industrial | carats | £738 000 | £874 000 | £803 000 | £669 000 | £565 000 |
| Dust | carats | 740 000 | 750 000 | 690 000 | 710 000 | ... |
| Diatomite | tonnes | 1 771 | 1 537 | 3 223 | 2 263 | 3 946 |
| Feldspar | tonnes | 72 198 | 87 177 | 79 521 | 96 049 | 115 286 |
| Fluorspar | tonnes | 1 243 | 1 196 | 574 | 158 | 1 633 |
| Gold | | | | | | |
| Metal | kilograms | 4 791 | 3 303 | 1 893 | 655 | 6 074 |
| Graphite | tonnes | 1 297 | 1 436 | 1 129 | 1 317 | 1 722 |
| Gypsum | | | | | | |
| Crude | tonnes | 40 509 | 33 696 | 60 120 | 82 603 | 79 370 |
| Calcined | tonnes | 374 719 | 371 705 | 338 228 | 340 665 | 361 284 |

Portugal

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|------------|------------|------------|------------|------------|
| Iodine | kilograms | 76 686 | 25 000 | 28 807 | 14 717 | 12 000 |
| Iron ore | tonnes | 141 064 | 829 | 421 | 448 | 118 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 23 395 | 25 139 | 12 763 | 16 089 | 19 713 |
| Ferro-manganese | tonnes | 603 | 490 | 779 | 889 | 885 |
| Ferro-silico-manganese | tonnes | 3 204 | 2 331 | 5 757 | 1 742 | 10 021 |
| Ferro-molybdenum | tonnes | 168 | 126 | 85 | 193 | 759 |
| Ferro-silicon | tonnes | 3 439 | 2 296 | 2 339 | 1 881 | 3 028 |
| Other ferro-alloys | tonnes | 5 774 | 4 636 | 3 809 | 2 788 | 8 440 |
| Ingots, blooms, billets | tonnes | 73 499 | 123 087 | 5 829 | 7 167 | 10 538 |
| Scrap | tonnes | 184 327 | 218 978 | 353 646 | 292 753 | 653 988 |
| Kaolin | tonnes | 151 525 | 125 201 | 135 681 | 124 508 | 143 943 |
| Lead | | | | | | |
| Unwrought | tonnes | 20 604 | 16 952 | 15 624 | 18 885 | 21 198 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 1 888 | 909 | 885 | 969 | 1 012 |
| Magnesia | tonnes | 18 635 | 6 078 | 5 855 | 4 808 | 5 998 |
| Mercury | kilograms | 7 546 | 533 | 523 | 291 | 0 |
| Mica | tonnes | 56 | 113 | 198 | 311 | 193 |
| Molybdenum | | | | | | |
| Metal | tonnes | 14 | 15 | 15 | 24 | 14 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 315 | 293 | 184 | 310 | 602 |
| Crude petroleum | tonnes | 12 517 253 | 11 635 480 | 12 544 785 | 13 081 242 | 12 941 851 |
| Phosphates | tonnes | 158 684 | 134 664 | 141 740 | 149 365 | 137 423 |
| Potash | | | | | | |
| Sulphate | tonnes | 1 950 | 2 144 | 4 457 | 7 526 | 3 631 |
| Chloride | tonnes | 55 972 | 73 748 | 55 775 | 79 232 | 65 682 |
| Other potassic fertilisers | tonnes | 737 | 1 570 | 1 630 | 1 752 | 2 774 |
| Salt | tonnes | 116 508 | 119 892 | 139 720 | 121 621 | 70 266 |
| Sillimanite | tonnes | 566 | 405 | 330 | 337 | 160 |
| Silver | | | | | | |
| Metal | kilograms | 599 | 64 | 2 520 | 2 237 | 200 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 3 306 | 5 981 | 6 333 | 3 532 | 5 878 |
| Sulphur, sublimed & precipitated | tonnes | 103 | 5 | 5 | 431 | 28 |
| Talc | tonnes | 14 354 | 16 685 | 17 721 | 20 203 | 23 583 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 99 | 171 | 69 | 68 | 115 |
| Tin | | | | | | |
| Unwrought | tonnes | 780 | 1 223 | 781 | 434 | 971 |
| Unwrought alloys | tonnes | 210 | 29 | 63 | 71 | 100 |
| Titanium | | | | | | |
| Oxides | tonnes | 17 341 | 20 230 | 18 922 | 20 120 | 17 458 |
| Tungsten | | | | | | |
| Metal | tonnes | ... | 28 | 103 | 153 | 179 |
| Carbide | tonnes | 82 | 79 | 96 | 109 | 105 |
| Zinc | | | | | | |
| Unwrought | tonnes | 12 701 | 13 649 | 18 113 | 13 450 | 11 862 |
| Unwrought alloys | tonnes | 6 907 | 10 678 | 10 616 | 14 675 | 11 573 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 3 990 | 2 924 | 2 802 | 2 045 | 5 918 |

Note(s):-

(a) Including alloys

Romania

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 1 075 191 | 1 568 994 | 1 013 386 | 1 458 266 | 1 394 414 |
| Alumina | tonnes (Al ₂ O ₃ content) | 319 403 | 361 047 | 332 853 | 560 243 | 688 829 |
| Primary aluminium | tonnes | 181 830 | 187 052 | 196 844 | 222 347 | 243 605 |
| Barytes | tonnes | 2 851 | 100 | 23 | — | — |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 24 779 | 15 389 | 17 637 | 18 161 | 18 190 |
| Bismuth, mine | tonnes (metal content) | *40 | *40 | *40 | *40 | *40 |
| Cement, finished | tonnes | 5 702 000 | 5 679 776 | 5 991 962 | 6 238 584 | 7 032 100 |
| Coal | | | | | | |
| Anthracite & bituminous | tonnes | 4 033 000 | 3 976 000 | 3 309 000 | *3 000 000 | *3 000 000 |
| Brown coal & lignite | tonnes | 30 750 000 | 28 015 000 | 31 121 000 | 31 792 000 | 31 122 000 |
| Copper, mine | tonnes (metal content) | 19 185 | 19 323 | 23 389 | 20 380 | 14 868 |
| Copper, smelter | tonnes | 3 000 | 3 000 | 3 000 | 61 | — |
| Copper, refined | tonnes | 17 654 | 11 453 | 16 739 | 24 526 | 20 739 |
| Diatomite | tonnes | 9 743 | 20 922 | 33 296 | 20 626 | 1 402 |
| Feldspar | tonnes | 43 037 | 51 959 | 72 827 | 60 924 | 74 927 |
| Fluorspar | tonnes | *15 000 | *15 000 | *15 000 | *15 000 | *15 000 |
| Gold, mine | kilograms (metal content) | 1 600 | 1 137 | 1 878 | 1 430 | *500 |
| Graphite | tonnes | 1 176 | 1 001 | 1 014 | 395 | 486 |
| Gypsum | tonnes | 282 985 | 421 235 | 409 516 | 490 372 | 532 867 |
| Iron ore | tonnes | 221 000 | 248 000 | 244 000 | 231 417 | 220 788 |
| Pig iron | tonnes | 3 242 994 | 3 979 346 | 4 101 409 | 4 243 956 | 4 097 921 |
| Crude steel | tonnes | 4 935 623 | 5 490 434 | 5 692 496 | 6 076 600 | 5 631 566 |
| Ferro-alloys | | | | | | |
| Ferro-manganese | tonnes | 384 | — | — | 191 | 18 625 |
| Ferro-silico-manganese | tonnes | 71 921 | 84 720 | 141 899 | 194 754 | 100 957 |
| Ferro-silicon | tonnes | 5 823 | — | — | — | — |
| Kaolin | tonnes | 21 867 | 22 517 | 25 741 | 22 338 | 26 772 |
| Lead, mine | tonnes (metal content) | 19 676 | 17 500 | 15 747 | 18 297 | 11 610 |
| Lead, refined | tonnes | 22 000 | 23 000 | 28 000 | 32 590 | 32 903 |
| Manganese ore | tonnes | 73 276 | 59 148 | 72 931 | 79 130 | 72 000 |
| Crude petroleum | tonnes | 6 011 000 | 5 810 000 | 5 651 000 | 5 462 000 | 5 212 000 |
| Natural gas | million m ³ | 14 090 | 13 647 | 13 174 | 13 246 | 12 472 |
| Salt | tonnes | 2 225 052 | 2 257 886 | 2 416 970 | 2 399 956 | 2 442 640 |
| Silver, mine | kilograms (metal content) | *18 000 | *18 000 | *18 000 | *18 000 | *18 000 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes (sulphur content) | 1 835 | — | — | — | — |
| Recovered | tonnes (sulphur content) | 41 000 | 29 000 | 49 000 | 53 000 | 79 000 |
| Talc | tonnes | 7 270 | 7 310 | 10 082 | 9 725 | 6 760 |
| Uranium, mine | tonnes (metal content) | 85 | 90 | 90 | 90 | *90 |
| Zinc, mine | tonnes (metal content) | 29 786 | 21 512 | 22 081 | 23 599 | 13 784 |
| Slab zinc | tonnes | 48 000 | 38 000 | 51 000 | 52 746 | 49 447 |

Note(s):-

(1) Romania is also believed to produce asbestos, mica and molybdenum

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|-----------|---------|---------|---------|
| Primary aggregates | tonnes | 1 953 | 18 927 | 35 924 | 23 073 | 63 110 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 196 600 | 5 128 | 155 094 | 209 950 | 261 862 |
| Unwrought (a) | tonnes | 73 320 | 88 022 | 35 094 | 79 508 | 39 254 |
| Scrap | tonnes | 6 577 | 6 963 | 5 787 | 4 703 | 4 829 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 12 748 | 4 430 | 4 056 | 8 810 | 7 154 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 512 590 | 572 684 | 360 639 | 669 204 | 465 660 |
| Portland cement | tonnes | 1 133 414 | 1 020 819 | 963 978 | 701 686 | 739 215 |

Romania

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Copper | | | | | | |
| Ores & concentrates | tonnes | 64 002 | 87 299 | 94 668 | 81 485 | 84 084 |
| Unwrought | tonnes | 14 740 | 3 826 | 1 185 | 815 | 614 |
| Scrap | tonnes | 9 417 | 19 432 | 16 683 | 15 979 | 22 665 |
| Feldspar | tonnes | 2 977 | 15 465 | 33 265 | 28 820 | 28 859 |
| Gypsum | tonnes | 6 115 | 6 473 | 10 539 | 14 277 | 15 089 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 2 548 | 2 686 | 6 367 | 3 339 | ... |
| Sponge & powder | tonnes | 7 264 | 7 797 | 6 886 | 9 187 | 12 522 |
| Ferro-silico-manganese | tonnes | (b) ... | (b) ... | 124 557 | 179 788 | 142 617 |
| Other ferro-alloys | tonnes | 66 286 | 88 368 | 2 529 | 3 891 | 8 657 |
| Ingots, blooms, billets | tonnes | 435 748 | 162 991 | 130 415 | 161 438 | 100 515 |
| Scrap | tonnes | 1 679 265 | 2 070 119 | 2 386 017 | 2 394 490 | 1 661 747 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 15 585 | 36 089 | 30 390 | 25 092 | 25 012 |
| Unwrought | tonnes | 16 142 | 16 544 | 23 388 | 20 894 | 22 120 |
| Scrap | tonnes | 1 483 | 1 518 | 964 | 1 689 | 3 295 |
| Salt | tonnes | 349 112 | 393 787 | 546 390 | 497 826 | 598 154 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 79 | 5 505 | 12 974 | 20 682 | 54 917 |
| Titanium | | | | | | |
| Metal | tonnes | 23 | 80 | 94 | 277 | 255 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 60 681 | 59 456 | 99 978 | 31 665 | 26 611 |
| Unwrought | tonnes | 44 984 | 34 261 | 49 234 | 42 968 | 42 013 |
| Scrap | tonnes | ... | ... | ... | ... | 1 073 |

Note(s):-

- (a) Including alloys
- (b) Included with 'other ferro-alloys'

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|---------------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 123 702 | 218 348 | 213 091 | 370 184 | 197 911 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 1 152 415 | 843 557 | 821 036 | 1 532 335 | 1 655 045 |
| Alumina | tonnes | 81 407 | 31 763 | 223 466 | 125 902 | 29 350 |
| Unwrought (a) | tonnes | 224 | ... | 3 145 | 7 449 | 2 849 |
| Antimony | | | | | | |
| Metal | tonnes | 70 | 64 | 65 | 62 | 55 |
| Asbestos | tonnes | 13 644 | 12 137 | 11 859 | 13 036 | 9 077 |
| Barytes | tonnes | 8 198 | 16 869 | 2 943 | 9 943 | 5 747 |
| Bentonite and fuller's earth | tonnes | 9 861 | 14 733 | 3 383 | 4 652 | 4 126 |
| Cement | | | | | | |
| Portland cement | tonnes | 9 680 | 20 478 | 123 332 | 228 506 | 167 686 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 2 405 | 3 869 | 2 701 | 2 562 | 2 828 |
| Metal | tonnes | 22 | 60 | 70 | 58 | 245 |
| Coal | | | | | | |
| Anthracite | tonnes | ... | 14 124 | 18 267 | 74 708 | 82 683 |
| Other coal | tonnes | (b) 3 015 063 | 3 658 335 | 3 251 154 | 3 584 413 | 3 681 406 |
| Lignite | tonnes | ... | 153 | 18 554 | 44 787 | 367 781 |
| Copper | | | | | | |
| Unwrought | tonnes | 25 611 | 12 248 | 2 225 | 7 255 | 9 723 |
| Diatomite | tonnes | 2 980 | 2 909 | 3 267 | 3 294 | 3 183 |
| Feldspar | tonnes | 34 378 | 35 924 | 41 385 | 38 470 | 39 448 |
| Fluorspar | tonnes | 7 314 | 6 653 | 5 547 | 4 117 | 6 285 |
| Gypsum | tonnes | 109 719 | 102 708 | 48 336 | 37 805 | 69 027 |
| Iron ore | tonnes | 3 874 940 | 6 198 085 | 6 977 977 | 6 609 026 | 6 601 393 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-alloys | tonnes | 59 826 | 66 087 | 69 411 | 92 302 | 88 454 |
| Silicon metal | tonnes | 1 759 | 1 590 | 5 888 | 3 401 | 2 813 |
| Ingots, blooms, billets | tonnes | 648 391 | 724 751 | 510 940 | 559 793 | 448 454 |
| Kaolin | tonnes | 71 015 | 71 628 | 82 981 | 71 987 | 55 653 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 30 678 | 32 043 | 14 899 | 26 920 | 31 085 |
| Unwrought | tonnes | 3 767 | 2 811 | 1 111 | 1 667 | 1 620 |
| Magnesite and magnesia | tonnes | 31 707 | 35 478 | 23 255 | 26 209 | 27 243 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 128 961 | 209 891 | 380 043 | 534 014 | 357 327 |
| Metal | tonnes | 158 | 230 | 297 | 303 | 427 |
| Mica | | | | | | |
| Mica | tonnes | 72 | ... | 590 | 828 | 886 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 671 | 457 | 280 | 563 | 745 |
| Crude petroleum | tonnes | 5 543 644 | 5 690 063 | 5 216 636 | 7 314 284 | 8 688 818 |
| Phosphates | tonnes | 278 348 | 249 271 | 264 547 | 303 713 | 283 192 |
| Potash | | | | | | |
| Sulphate | tonnes | 71 | 2 174 | 41 698 | 8 070 | 757 |
| Chloride | tonnes | 76 450 | 58 108 | 33 920 | 53 008 | 41 974 |
| Salt | tonnes | 23 077 | 59 231 | 99 679 | 120 787 | 131 683 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 22 311 | 357 | 5 660 | 2 075 | 964 |
| Sulphur, sublimed & precipitated | tonnes | 146 | 13 | 30 | 9 | 113 |
| Talc | tonnes | 1 038 | 1 200 | 1 187 | 1 609 | 1 962 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 333 | 245 | 291 | 188 | 216 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 2 544 | 1 993 | 2 192 | 2 334 | 2 111 |
| Oxides | tonnes | 4 621 | 4 742 | 5 454 | 6 378 | 7 600 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 87 597 | 55 758 | 113 683 | 109 019 | 150 282 |
| Unwrought (a) | tonnes | 11 747 | 15 482 | 16 030 | 19 555 | 14 640 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 685 | 678 | 827 | 809 | 552 |
| Metal | tonnes | 48 | 12 | 22 | 30 | 22 |

Note(s):-

- (a) Including alloys
 (b) Including anthracite

Slovakia

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---------------------------|-----------|-----------|-----------|-----------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 2 033 600 | 2 238 400 | 2 627 200 | 3 174 400 | 6 807 116 |
| Crushed rock | tonnes | 8 067 600 | 8 847 900 | 9 212 400 | 9 717 300 | 12 575 266 |
| Primary aluminium | tonnes | 110 062 | 111 600 | 132 089 | 156 893 | 158 400 |
| Barytes | tonnes | 14 450 | 25 820 | 12 000 | 27 063 | 26 589 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 73 000 | 65 500 | 74 700 | 73 280 | 75 860 |
| Cement, finished | tonnes | 3 122 665 | 3 140 581 | 3 147 478 | 3 158 308 | 3 498 685 |
| Coal | | | | | | |
| Brown coal | tonnes | 3 421 100 | 3 406 400 | 3 076 100 | 2 578 273 | 2 513 030 |
| Copper, refined | tonnes | 10 584 | 6 989 | 600 | — | — |
| Gold, mine | kilograms (metal content) | 157 | 77 | 79 | 107 | 109 |
| Gypsum (a) | tonnes | 168 800 | 121 680 | 93 800 | 127 100 | 107 500 |
| Iron ore | tonnes | 435 492 | 326 300 | 287 000 | 305 072 | 258 500 |
| Pig iron | tonnes | 3 254 600 | 3 533 150 | 3 892 000 | 3 765 000 | 3 681 000 |
| Crude steel | tonnes | 3 988 600 | 4 275 470 | 4 588 000 | 4 454 000 | 4 485 000 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 5 968 | 5 695 | 1 924 | 1 784 | 867 |
| Ferro-silico-manganese | tonnes | 46 288 | 62 084 | 52 733 | 64 862 | 47 843 |
| Ferro-silicon | tonnes | 55 577 | 35 920 | 41 539 | 34 684 | 16 512 |
| Other ferro-alloys | tonnes | 46 357 | 24 657 | 44 589 | 68 096 | 48 161 |
| Kaolin | tonnes | 34 730 | 24 600 | 24 800 | 89 424 | 34 830 |
| Magnesite | tonnes | 961 212 | 929 630 | 1 640 900 | 965 900 | 920 100 |
| Perlite | tonnes | 14 910 | 18 635 | 15 000 | 23 840 | 12 700 |
| Crude petroleum | tonnes | 54 115 | 51 921 | 47 953 | 42 410 | 33 150 |
| Natural gas | million m ³ | 212 | 212 | 201 | 178 | 151 |
| Salt | tonnes | 123 000 | 97 400 | 133 100 | 121 600 | 105 047 |
| Sulphur and pyrites | | | | | | |
| Recovered (b) | tonnes (sulphur content) | 5 000 | 5 000 | 5 000 | 5 000 | 5 000 |
| Recovered (c) | tonnes (sulphur content) | 57 000 | 61 000 | 60 000 | 65 000 | 65 000 |
| Talc | tonnes | 2 600 | 2 290 | 4 200 | 7 100 | 200 |

Note(s):-

(1) Slovakia is believed to produce feldspar

(a) Including anhydrite

(b) From metal sulphide processing

(c) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|--------------|--------------|
| Primary aggregates | tonnes | 573 398 | 570 446 | 328 547 | (a) *542 000 | (a) *758 000 |
| Aluminium and bauxite | | | | | | |
| Unwrought | tonnes | 1 345 | 2 225 | 3 098 | 6 827 | 15 302 |
| Unwrought alloys | tonnes | 146 730 | 156 343 | 169 698 | 183 346 | 159 134 |
| Scrap | tonnes | 4 744 | 5 417 | 5 722 | 7 594 | 8 042 |
| Barytes | tonnes | 14 215 | 11 037 | 6 642 | 7 919 | 7 876 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 65 850 | 56 645 | 66 954 | 85 341 | 76 014 |
| Fuller's earth | tonnes | 1 091 | 1 007 | 856 | *1 000 | 1 757 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 3 848 | 9 501 | 27 695 | 4 768 | 26 549 |
| Portland cement | tonnes | 1 697 104 | 1 584 379 | 1 476 998 | 1 470 728 | 1 433 926 |
| Other cement | tonnes | 58 301 | 18 992 | 15 958 | 24 408 | 44 670 |
| Chromium | | | | | | |
| Metal | tonnes | 2 869 | 2 511 | 2 289 | 2 362 | 1 876 |
| Copper | | | | | | |
| Unwrought | tonnes | 1 280 | 1 151 | 7 094 | 15 680 | 19 130 |
| Scrap | tonnes | 5 475 | 7 711 | 8 889 | 12 764 | 14 752 |
| Gold | | | | | | |
| Metal | kilograms | 133 | 255 | 325 | 274 | 268 |
| Waste & scrap | kilograms | 494 | 1 600 | 1 012 | 357 | 986 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|---------|------------|---------|
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 69 | 154 | 184 | 679 | 246 |
| Iron ore | tonnes | 112 227 | 127 174 | 76 957 | 135 398 | 8 581 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 23 551 | 13 213 | 37 145 | 73 303 | 31 261 |
| Ferro-manganese | tonnes | 36 573 | 47 074 | 37 139 | 57 440 | 41 918 |
| Ferro-silico-manganese | tonnes | 47 734 | 56 484 | 54 945 | 66 902 | 51 623 |
| Ferro-silicon | tonnes | 53 701 | 39 550 | 42 018 | 40 135 | 29 130 |
| Other ferro-alloys | tonnes | 18 111 | 14 541 | 10 013 | 11 834 | 10 741 |
| Ingots, blooms, billets | tonnes | 202 645 | 191 414 | 125 822 | 286 072 | 289 090 |
| Scrap | tonnes | 375 552 | 450 126 | 497 645 | 544 714 | 390 620 |
| Lead | | | | | | |
| Unwrought | tonnes | 2 873 | 984 | 3 124 | (a) *2 000 | 1 662 |
| Magnesite and magnesia | tonnes | 377 755 | 343 123 | 396 477 | 414 176 | 385 949 |
| Mercury | kilograms | 34 000 | 1 188 | 2 437 | 0 | 6 |
| Crude petroleum | tonnes | 16 895 | 13 013 | 16 699 | 113 305 | 30 887 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | ... | 257 | 310 | 308 | 8 |
| Salt | tonnes | 50 441 | 45 612 | 47 199 | 51 539 | 53 451 |
| Silver | | | | | | |
| Metal | kilograms | ... | 8 498 | 7 985 | 6 465 | 1 872 |
| Talc | tonnes | 1 549 | 1 322 | 1 205 | ... | 1 051 |

Note(s):-

(a) BGS estimates, based on known imports into certain countries

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 194 367 | 188 874 | 208 515 | 294 267 | 682 608 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 28 803 | 8 211 | 8 300 | 7 991 | 3 669 |
| Alumina | tonnes | 232 975 | 221 205 | 253 825 | 366 784 | 307 756 |
| Unwrought (a) | tonnes | 36 909 | 53 060 | 49 945 | 45 913 | 31 683 |
| Scrap | tonnes | 4 163 | 11 508 | 10 593 | 13 701 | 12 567 |
| Barytes | tonnes | 538 | 1 312 | 956 | 927 | 814 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 4 861 | 4 008 | 3 912 | 6 040 | 6 863 |
| Fuller's earth | tonnes | ... | 204 | 1 014 | 866 | 1 082 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 0 | — | 34 550 | 33 021 | 68 894 |
| Portland cement | tonnes | 80 356 | 82 114 | 113 926 | 85 834 | 88 403 |
| Other cement | tonnes | 2 629 | 2 320 | 3 379 | 19 636 | 49 619 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 28 803 | 16 766 | 12 624 | 24 479 | 12 475 |
| Metal | tonnes | 58 | 103 | 179 | 2 | 55 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 4 974 806 | 4 630 110 | 4 944 486 | 5 181 166 | 5 343 468 |
| Lignite | tonnes | 763 850 | 710 943 | 805 556 | 717 562 | 700 503 |
| Briquettes | tonnes | 5 421 | 3 162 | 1 803 | 20 243 | 33 049 |
| Copper | | | | | | |
| Matte & cement | tonnes | ... | 170 | 104 | 758 | 4 342 |
| Unwrought | tonnes | 11 071 | 11 400 | 3 689 | 1 269 | 1 718 |
| Scrap | tonnes | 5 462 | 5 604 | 8 448 | 20 776 | 19 977 |
| Diatomite | tonnes | 1 406 | 1 283 | 1 067 | 865 | 675 |
| Feldspar | tonnes | 29 202 | 27 596 | 48 100 | 39 689 | 36 989 |
| Fluorspar | tonnes | 2 393 | 1 797 | 1 965 | 1 574 | 1 615 |
| Gold | | | | | | |
| Metal | kilograms | 545 | 654 | 421 | ... | 123 |
| Graphite | tonnes | 1 992 | 2 633 | 2 209 | 1 667 | 1 031 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 40 702 | 125 948 | 121 461 | 110 803 | 116 252 |

Slovakia

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Iron ore | tonnes | 3 269 165 | 4 990 546 | 5 704 522 | 2 745 925 | 5 510 508 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 19 209 | 20 219 | 14 998 | 29 498 | 39 400 |
| Sponge & powder | tonnes | 26 | 15 318 | 11 704 | 11 141 | 13 832 |
| Ferro-alloys | tonnes | 24 870 | 31 332 | 36 038 | 35 878 | 44 534 |
| Silicon metal | tonnes | 50 | 6 496 | 7 593 | 8 199 | 6 279 |
| Ingots, blooms, billets | tonnes | 4 015 | 29 081 | 17 534 | 15 927 | 10 753 |
| Scrap | tonnes | 383 068 | 475 898 | 389 383 | 241 718 | 197 550 |
| Kaolin | tonnes | 93 735 | 111 841 | 88 513 | 76 440 | 94 705 |
| Magnesite and magnesia | tonnes | 36 609 | 32 571 | 31 606 | 27 698 | 23 379 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | ... | 186 061 | 176 511 | 257 331 | 273 270 |
| Metal | tonnes | 185 | 121 | 147 | ... | 146 |
| Mercury | kilograms | 4 000 | 3 677 | 2 230 | 2 738 | 3 457 |
| Crude petroleum | tonnes | 5 408 523 | 5 554 324 | 5 603 952 | 5 858 911 | 5 421 866 |
| Potash | | | | | | |
| Potassic fertilisers | tonnes | 821 | 39 452 | 30 582 | 36 256 | 28 913 |
| Salt | tonnes | 158 752 | 200 614 | 213 250 | 266 601 | 320 413 |
| Sillimanite | tonnes | 1 770 | 2 385 | 2 690 | 2 459 | 4 312 |
| Silver | | | | | | |
| Metal | kilograms | ... | 13 268 | 13 073 | 17 735 | 57 416 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 21 142 | 18 738 | 7 439 | 3 582 | 3 669 |
| Talc | tonnes | 711 | 382 | 369 | 192 | 211 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 624 | 800 | 1 091 | 2 034 | 2 610 |
| Titanium | | | | | | |
| Metal | tonnes | 142 | 103 | 111 | 101 | 980 |
| Oxides | tonnes | 530 | 429 | 2 701 | 2 173 | 2 804 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | ... | 31 953 | 33 557 | 42 324 | 43 500 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite

Slovenia

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|------------------------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 12 546 000 | 11 661 000 | 11 277 000 | 11 012 000 | 11 466 000 |
| Crushed rock | tonnes | 12 200 746 | 13 049 675 | 15 040 340 | 13 719 888 | 12 176 491 |
| Primary aluminium | tonnes | 76 632 | 87 600 | 109 800 | 120 700 | 138 500 |
| Cement, finished | tonnes | 1 237 000 | 1 178 000 | 1 370 000 | 1 186 000 | 1 200 000 |
| Coal | | | | | | |
| Brown coal & lignite | tonnes | 4 133 000 | 4 684 710 | 4 828 786 | 4 807 302 | 4 539 556 |
| Crude steel | tonnes | 462 000 | 481 000 | 541 000 | 566 000 | 583 000 |
| Ferro-alloys | | | | | | |
| Ferro-silicon | tonnes | *9 000 | *9 000 | *12 000 | *18 000 | *11 000 |
| Lead, refined | tonnes | 15 400 | 15 400 | 15 000 | *15 000 | 15 000 |
| Natural gas | million m ³ | 6 100 | 5 704 | 4 926 | 5 500 | 5 500 |
| Salt | tonnes | 2 000 | 5 200 | 3 632 | 2 852 | 803 |

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|---------|---------|---------|---------|---------|
| Primary aggregates | tonnes | 77 693 | 92 618 | 137 354 | 166 176 | 221 830 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 10 452 | 11 760 | 18 072 | 24 277 | 205 606 |
| Unwrought alloys | tonnes | 70 705 | 77 362 | 101 446 | 124 069 | 123 555 |
| Scrap | tonnes | 9 522 | 12 329 | 11 619 | 14 971 | 21 103 |
| Cement | | | | | | |
| Cement clinkers | tonnes | ... | 2 163 | 7 589 | 18 577 | 58 765 |
| Portland cement | tonnes | 184 683 | 171 993 | 166 323 | 101 842 | 56 776 |
| Other cement | tonnes | ... | ... | ... | 16 154 | 63 732 |
| Copper | | | | | | |
| Scrap | tonnes | 7 999 | 8 615 | 10 550 | 12 564 | 13 054 |
| Gold | | | | | | |
| Metal | kilograms | 160 | 1 287 | 681 | 254 | 101 |
| Waste & scrap | kilograms | 5 973 | — | 1 012 | 1 649 | — |
| Iron, steel and ferro-alloys | | | | | | |
| Ferro-alloys | tonnes | 27 200 | 31 083 | 34 420 | 37 714 | 51 410 |
| Silicon metal | tonnes | ... | 40 | 188 | 1 608 | 252 |
| Ingots, blooms, billets | tonnes | 11 953 | 8 292 | 13 311 | 15 327 | 12 647 |
| Scrap | tonnes | 136 041 | 126 233 | 113 448 | 186 726 | 225 627 |
| Lead | | | | | | |
| Unwrought | tonnes | 6 587 | 3 757 | 5 136 | 4 701 | 5 818 |
| Lithium | | | | | | |
| Carbonate | tonnes | 91 | 68 | 64 | 89 | 96 |
| Manganese | | | | | | |
| Metal | tonnes | 3 | 104 | 185 | 143 | 2 584 |
| Mercury | kilograms | 1 446 | 1 312 | 15 826 | 7 327 | 1 395 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 225 | 262 | 116 | 144 | 117 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 322 | 919 | 817 | 1 083 | 3 |
| Salt | tonnes | 3 513 | 4 400 | 4 814 | 5 253 | 8 034 |
| Silver | | | | | | |
| Metal | kilograms | 1 775 | 1 367 | 3 948 | 2 699 | 6 382 |
| Titanium | | | | | | |
| Oxides | tonnes | 32 782 | 38 484 | 35 655 | 38 497 | 44 123 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-----------|---------|---------|---------|
| Primary aggregates | tonnes | 491 305 | 447 327 | 541 189 | 532 614 | 364 091 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 87 940 | 35 020 | 51 683 | 44 560 | 47 935 |
| Alumina | tonnes | 167 095 | 239 473 | 252 351 | 264 319 | 450 273 |
| Alumina hydrate | tonnes | 26 905 | 23 219 | 22 878 | 14 131 | 23 581 |
| Unwrought | tonnes | 79 091 | 51 670 | 63 688 | 57 362 | 73 137 |
| Unwrought alloys | tonnes | 28 897 | 33 274 | 40 332 | 43 403 | 46 782 |
| Scrap | tonnes | 13 739 | 13 262 | 13 676 | 27 390 | 47 381 |
| Antimony | | | | | | |
| Metal | tonnes | 29 | 118 | 52 | 84 | 137 |
| Asbestos | tonnes | ... | ... | ... | 10 | 25 |
| Barytes | tonnes | 1 026 | 1 075 | 931 | 896 | 845 |
| Bentonite and fuller's earth | tonnes | 3 738 | 4 122 | 4 322 | 3 591 | 3 639 |
| Bismuth | | | | | | |
| Metal | tonnes | 35 | 54 | 42 | 43 | 69 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 21 066 | 16 279 | 95 002 | 61 151 | 1 343 |
| Portland cement | tonnes | 174 690 | 150 749 | 205 345 | 219 779 | 215 513 |
| Other cement | tonnes | 1 254 | 1 272 | 1 440 | 112 | 2 861 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 722 | 451 | 340 | 406 | 446 |
| Metal | tonnes | 18 | 10 | 26 | 31 | 122 |
| Coal | | | | | | |
| Hard coal (b) | tonnes | 28 581 | 34 607 | 54 168 | 38 849 | 51 173 |
| Lignite | tonnes | 440 419 | 539 356 | 488 929 | 584 117 | 543 465 |
| Cobalt | | | | | | |
| Metal | tonnes | 214 | 141 | 198 | 162 | 209 |
| Copper | | | | | | |
| Unwrought | tonnes | 3 226 | 4 005 | 3 835 | 2 948 | 2 764 |
| Scrap | tonnes | 3 300 | 3 119 | 3 787 | 3 743 | 5 762 |
| Diamond | | | | | | |
| Gem, cut | carats | 25 000 | 15 000 | ... | ... | ... |
| Industrial | carats | 90 000 | 50 000 | ... | ... | ... |
| Dust | carats | 1 505 000 | 2 040 000 | ... | ... | ... |
| Diatomite | tonnes | 503 | 446 | 450 | 730 | 846 |
| Feldspar | tonnes | 5 232 | 4 870 | 8 605 | 10 045 | 5 852 |
| Fluorspar | tonnes | 939 | 1 148 | 1 113 | 1 178 | 1 031 |
| Gold | | | | | | |
| Metal | kilograms | 1 539 | 2 696 | 612 | 382 | 374 |
| Waste & scrap | kilograms | 1 | ... | 256 | 363 | 4 219 |
| Gypsum | tonnes | 70 509 | 74 660 | 59 685 | 46 703 | 36 817 |
| Iodine | kilograms | 2 200 | 150 | 180 | 172 | 387 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 13 497 | 14 851 | 19 260 | 27 783 | 32 217 |
| Ferro-alloys | tonnes | 28 298 | 32 616 | 34 959 | 44 254 | 71 299 |
| Silicon metal | tonnes | 3 547 | 4 059 | 6 483 | 10 171 | 6 393 |
| Ingots, blooms, billets | tonnes | 5 800 | 3 620 | 3 312 | 3 199 | 3 505 |
| Scrap | tonnes | 249 517 | 262 294 | 316 188 | 386 832 | 434 585 |
| Kaolin | tonnes | 25 583 | 27 112 | 29 449 | 28 782 | 25 928 |
| Lead | | | | | | |
| Unwrought | tonnes | 10 738 | 12 629 | 13 604 | 12 854 | 10 262 |
| Scrap | tonnes | 215 | 783 | 538 | 1 223 | 1 382 |
| Lithium | | | | | | |
| Oxides | tonnes | 116 | 80 | 88 | 127 | 116 |
| Magnesite and magnesia | tonnes | 8 406 | 9 377 | 9 732 | 9 560 | 9 899 |
| Manganese | | | | | | |
| Metal | tonnes | 42 | 154 | 152 | 296 | 316 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 95 | 0 | 42 | 524 | 5 674 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 2 954 | 1 595 | 992 | 959 | 931 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 1 411 | 1 018 | 1 033 | 430 | 12 262 |
| Rare earths | | | | | | |
| Metals | tonnes | 74 | 71 | 80 | 107 | 139 |
| Salt | tonnes | 107 755 | 128 212 | 155 881 | 178 531 | 207 314 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------|-----------|--------|--------|--------|---------|--------|
| Silver Metal | kilograms | 32 378 | 35 827 | 36 253 | 307 045 | 45 584 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 379 | 426 | 399 | 375 | 400 |
| Sulphur | tonnes | 51 734 | 49 560 | 46 289 | 49 649 | 58 669 |
| Talc | tonnes | 3 990 | 4 706 | 5 251 | 5 628 | 5 383 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 18 676 | 7 805 | 24 652 | 11 610 | 21 054 |
| Metal | tonnes | 68 | 127 | 118 | 300 | 614 |
| Oxides | tonnes | 2 282 | 2 936 | 3 219 | 3 033 | 3 157 |
| Vanadium | | | | | | |
| Metal | tonnes | 18 | 27 | 22 | 21 | 89 |
| Zinc | | | | | | |
| Unwrought (a) | tonnes | 20 516 | 18 031 | 19 925 | 21 146 | 21 740 |
| Zirconium Concentrates | tonnes | 440 | 440 | 529 | 416 | 625 |

Note(s):-

- (a) Including alloys
- (b) Including anthracite

Spain

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 85 000 000 | 97 857 003 | 118 746 034 | 113 947 729 | 115 000 000 |
| Crushed rock | tonnes | 200 000 000 | 237 379 504 | 254 100 000 | 273 555 490 | 280 000 000 |
| Alumina | tonnes (Al_2O_3 content) | 1 199 000 | 1 350 000 | 1 380 000 | *1 400 000 | *1 400 000 |
| Primary aluminium | tonnes | 376 400 | 380 100 | 389 100 | 397 500 | 395 000 |
| Barytes | tonnes | 45 473 | 50 071 | 44 660 | 40 776 | 39 133 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | *120 000 | 123 457 | 103 174 | 156 760 | 145 000 |
| Attapulgite | tonnes | 24 477 | 22 918 | 18 975 | 20 796 | 18 100 |
| Sepiolite | tonnes | *600 000 | 564 610 | 548 728 | 655 346 | 631 033 |
| Bromine | kilograms | *100 000 | *100 000 | *100 000 | *100 000 | *100 000 |
| Cement, finished | tonnes | 40 512 090 | 42 417 253 | 44 746 757 | 46 595 560 | *48 000 000 |
| Coal | | | | | | |
| Anthracite | tonnes | 4 693 831 | 4 399 365 | 3 857 364 | 3 692 220 | 3 888 638 |
| Bituminous | tonnes | 5 797 496 | 5 349 027 | 5 547 150 | 5 220 407 | 4 664 589 |
| Sub-bituminous | tonnes | 3 456 000 | 3 537 710 | 3 182 572 | 3 426 001 | 5 854 014 |
| Lignite | tonnes | 8 787 000 | 8 726 121 | 7 977 546 | 8 146 908 | 7 587 113 |
| Copper, mine | tonnes (metal content) | 9 800 | 1 248 | 635 | 1 306 | 2 459 |
| Copper, smelter | tonnes | 280 015 | 298 057 | 290 282 | 224 249 | 284 215 |
| Copper, refined | tonnes | 290 630 | 312 145 | 293 495 | 228 466 | 313 105 |
| Diatomite (a) | tonnes | 70 000 | 53 558 | 57 934 | 33 799 | 35 000 |
| Feldspar | tonnes | *520 000 | 548 964 | 563 580 | 552 507 | 570 000 |
| Fluorspar | tonnes | 134 039 | 141 434 | 139 266 | 145 694 | 146 890 |
| Gold, mine | kilograms (metal content) | 4 277 | 5 559 | 5 212 | 5 248 | 2 260 |
| Gypsum | tonnes | *10 920 000 | 11 218 410 | 11 366 375 | 12 533 972 | 12 500 000 |
| Iron ore | tonnes | 55 058 | 24 489 | 571 | 10 879 | — |
| Pig iron | tonnes | 4 094 000 | 3 973 000 | 3 645 000 | 4 036 000 | 4 200 000 |
| Crude steel | tonnes | 16 504 000 | 16 408 000 | 16 407 000 | 17 700 000 | 17 826 000 |
| Ferro-alloys | | | | | | |
| Ferro-manganese | tonnes | 24 804 | 33 218 | *35 000 | *35 000 | *35 000 |
| Ferro-silico-manganese | tonnes | 102 110 | 103 494 | *100 000 | *100 000 | *100 000 |
| Ferro-silicon | tonnes | 53 427 | 56 994 | *60 000 | *60 000 | *60 000 |
| Silicon metal | tonnes | 29 114 | 26 071 | *25 000 | *25 000 | *25 000 |
| Kaolin (b) | tonnes | *400 000 | 419 483 | 427 193 | 437 990 | 450 000 |
| Lead, mine | tonnes (metal content) | 35 573 | 6 171 | 1 765 | — | — |
| Lead, refined | tonnes | 121 600 | 115 552 | 99 100 | 105 600 | 110 000 |
| Magnesite | tonnes | 598 000 | 637 024 | 517 030 | 567 504 | 485 800 |
| Mercury | kilograms | 524 000 | 726 139 | 745 260 | — | — |
| Mica (c) | tonnes | 9 874 | 11 783 | 11 800 | 7 825 | 6 500 |
| Nickel, mine | tonnes (metal content) | — | — | — | — | 5 380 |
| Crude petroleum | tonnes | 344 074 | 326 197 | 329 171 | 262 707 | 173 253 |
| Natural gas | million m ³ | 557 | 553 | 268 | 370 | 174 |
| Potash | | | | | | |
| Chloride | tonnes (K_2O content) | 470 933 | 406 571 | 505 527 | 553 210 | 494 592 |
| Salt | | | | | | |
| Rock salt | tonnes | 2 319 800 | 2 559 760 | 2 562 832 | 2 656 904 | 2 500 000 |
| Sea salt | tonnes | 1 420 000 | 1 234 679 | 1 327 108 | 1 227 625 | 1 250 000 |
| Other salt | tonnes | 100 000 | 97 945 | 97 730 | 108 733 | 100 000 |
| Sillimanite minerals | | | | | | |
| Andalusite | tonnes | *250 | *250 | *200 | *200 | *200 |
| Silver, mine | kilograms (metal content) | 55 000 | 12 792 | 2 173 | 3 583 | 5 227 |
| Strontium minerals | tonnes | 164 030 | 171 293 | 152 383 | 206 001 | 190 000 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes (sulphur content) | 89 796 | — | — | — | — |
| Recovered (d) | tonnes (sulphur content) | 461 000 | 544 000 | 560 000 | 488 000 | — |
| Recovered (e) | tonnes (sulphur content) | 135 000 | 140 000 | 145 000 | 145 000 | *150 000 |

Production continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------|------------------------|---------|---------|---------|---------|---------|
| Talc | | | | | | |
| Talc | tonnes | 119 000 | 108 312 | 101 739 | 107 829 | 97 000 |
| Pyrophyllite | tonnes | ... | ... | 900 | 700 | — |
| Zinc, mine | tonnes (metal content) | 165 568 | 69 926 | 15 140 | — | — |
| Slab zinc | tonnes | 437 000 | 503 000 | 519 000 | 525 000 | 501 400 |

Note(s):-

(1) Spain is believed to produce arsenic

- (a) Including tripoli
- (b) Washed
- (c) Including mica recovered from mica schists and/or kaolin beneficiation
- (d) From metal sulphide processing
- (e) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 1 641 676 | 1 724 911 | 1 647 138 | 1 694 285 | 1 546 315 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 292 210 | 179 478 | 369 353 | 491 808 | 561 125 |
| Alumina hydrate | tonnes | 231 485 | 11 685 | 214 263 | 241 910 | 264 829 |
| Unwrought | tonnes | 5 191 | 2 429 | 915 | 1 024 | 3 002 |
| Unwrought alloys | tonnes | 86 974 | 68 484 | 87 356 | 102 146 | 111 992 |
| Scrap | tonnes | 30 251 | 37 236 | 41 646 | 35 021 | 36 688 |
| Antimony | | | | | | |
| Metal | tonnes | 92 | 10 | 41 | 409 | 13 |
| Oxide | tonnes | 974 | 934 | 622 | 706 | 859 |
| Asbestos | tonnes | 36 | 1 | — | — | — |
| Barytes | tonnes | 39 910 | 44 570 | 37 141 | 33 930 | 27 389 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 61 691 | 63 120 | 74 277 | 80 410 | 75 450 |
| Sepiolite | tonnes | 609 250 | 581 737 | 507 584 | 501 988 | 506 019 |
| Fuller's earth | tonnes | 14 370 | 14 721 | 12 417 | 11 362 | 9 828 |
| Bismuth | | | | | | |
| Compounds | tonnes | 72 | — | ... | ... | ... |
| Metal | tonnes | 7 | 13 | 10 | 2 | 9 |
| Cadmium | | | | | | |
| Metal | tonnes | 1 | 0 | 0 | 0 | 0 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 6 538 | 45 657 | 18 350 | 9 491 | 13 259 |
| Portland cement | tonnes | 1 713 277 | 1 700 683 | 1 585 078 | 1 681 953 | 1 713 572 |
| Other cement | tonnes | 94 252 | 92 852 | 100 272 | 59 696 | 51 340 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 678 | 1 040 | 947 | 2 113 | 1 314 |
| Metal | tonnes | 1 569 | 2 679 | 1 126 | 905 | 709 |
| Coal | | | | | | |
| Anthracite | tonnes | 7 146 | 12 173 | 47 185 | 48 710 | 49 563 |
| Cobalt | | | | | | |
| Metal | tonnes | 49 | 16 | 14 | 35 | 7 |
| Oxides | tonnes | 2 | 122 | 8 | 33 | 59 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 79 561 | 6 756 | 2 682 | 4 327 | 14 434 |
| Unwrought, unrefined | tonnes | 35 090 | 21 126 | 37 437 | 50 901 | 62 269 |
| Unwrought, refined | tonnes | 23 785 | 23 999 | 46 677 | 32 366 | 44 365 |
| Unwrought alloys | tonnes | 7 465 | 7 124 | 9 747 | 11 724 | 9 810 |
| Scrap | tonnes | 52 154 | 72 157 | 62 879 | 77 850 | 99 600 |
| Diamond | | | | | | |
| Unsorted | carats | 375 000 | ... | ... | 25 000 | 80 000 |
| Gem, cut | carats | £1 890 000 | £3 291 000 | £2 606 000 | £1 855 000 | £5 275 000 |
| Industrial | carats | £1 481 000 | £613 000 | £245 000 | £212 000 | £325 000 |
| Dust | carats | 235 000 | 615 000 | 385 000 | 3 765 000 | 3 760 000 |
| Diatomite | tonnes | 4 467 | 6 829 | 5 385 | 5 278 | 6 694 |

Spain

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Feldspar | tonnes | 52 161 | 79 520 | 65 385 | 71 993 | 66 427 |
| Fluorspar | tonnes | 1 132 | 1 106 | 1 745 | 2 221 | 4 434 |
| Gold | | | | | | |
| Metal | kilograms | 2 046 | 3 867 | 4 793 | 6 490 | 3 520 |
| Waste & scrap | kilograms | 14 030 | 1 126 | 784 | 2 908 | 38 |
| Graphite | tonnes | 14 299 | 8 521 | 9 288 | 27 634 | 11 972 |
| Gypsum | | | | | | |
| Crude | tonnes | 2 590 879 | 2 818 090 | 2 732 211 | 2 820 367 | 3 228 806 |
| Calcined | tonnes | 460 778 | 517 466 | 473 180 | 470 437 | 391 274 |
| Iodine | kilograms | 300 485 | 115 000 | 27 811 | 31 156 | 21 089 |
| Iron ore | | | | | | |
| Burnt pyrites | tonnes | 168 181 | 189 404 | 105 203 | 171 292 | 230 985 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 2 900 | 4 177 | 2 751 | 3 258 | 12 709 |
| Sponge & powder | tonnes | 4 956 | 3 920 | 4 447 | 4 914 | 4 397 |
| Ferro-chrome | tonnes | 466 | 472 | 369 | 551 | 775 |
| Ferro-manganese | tonnes | 66 834 | 73 506 | 62 260 | 82 733 | 101 850 |
| Ferro-silico-manganese | tonnes | 34 622 | 29 297 | 44 214 | 40 130 | 42 916 |
| Ferro-molybdenum | tonnes | 120 | 326 | 342 | 60 | 331 |
| Ferro-silicon | tonnes | 5 826 | 14 730 | 13 140 | 19 332 | 11 843 |
| Other ferro-alloys | tonnes | 1 120 | 750 | 891 | 558 | 992 |
| Silicon metal | tonnes | 14 027 | 17 621 | 11 035 | 13 254 | 16 742 |
| Ingots, blooms, billets | tonnes | 263 813 | 241 944 | 182 247 | 130 079 | 118 414 |
| Scrap | tonnes | 45 419 | 93 970 | 103 413 | 205 298 | 140 200 |
| Kaolin | tonnes | 155 446 | 159 759 | 172 414 | 154 667 | 192 735 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 97 594 | 13 | 5 057 | 6 057 | 2 |
| Unwrought | tonnes | 6 098 | 9 458 | 6 219 | 8 301 | 9 805 |
| Scrap | tonnes | 3 684 | 6 797 | 7 028 | 6 399 | 9 128 |
| Lithium | | | | | | |
| Carbonate | tonnes | 1 617 | 639 | 373 | 3 157 | 1 123 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 9 201 | 24 152 | 23 640 | 25 557 | 901 |
| Magnesia | tonnes | 150 632 | 154 661 | 158 844 | 185 811 | 189 005 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 11 474 | 1 208 | 855 | 989 | 776 |
| Metal | tonnes | 6 113 | 5 727 | 4 791 | 6 117 | 6 651 |
| Mercury | kilograms | 569 833 | 820 527 | 836 784 | 596 739 | 581 653 |
| Mica | tonnes | 1 856 | 2 001 | 3 996 | 3 075 | 2 591 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 169 | 609 | 126 | 177 | 572 |
| Scrap | tonnes | 385 | 208 | 420 | 363 | 528 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 256 | 285 | 104 | 1 054 | 152 |
| Waste & scrap | kilograms | 616 | 253 | 7 479 | 1 893 | 2 892 |
| Potash | | | | | | |
| Sulphate | tonnes | 57 091 | 15 635 | 11 628 | 3 958 | 2 832 |
| Chloride | tonnes | 418 155 | 350 315 | 502 348 | 675 140 | 514 042 |
| Rare earths | | | | | | |
| Ferro-cerium & other pyrophoric alloys | tonnes | 56 | 85 | ... | ... | ... |
| Salt | tonnes | 785 056 | 617 170 | 695 177 | 744 750 | 750 180 |
| Silver | | | | | | |
| Metal | kilograms | 14 145 | 51 246 | 115 059 | 43 448 | 11 665 |
| Sulphur and pyrites | | | | | | |
| Sulphur, crude | tonnes | 49 385 | 39 389 | 29 959 | 45 034 | 32 557 |
| Sulphur, refined | tonnes | 19 318 | 13 476 | 12 746 | 8 704 | 13 133 |
| Sulphur, sublimed & precipitated | tonnes | 52 | 69 | 575 | 79 | 124 |
| Talc | tonnes | 63 657 | 67 921 | 67 748 | 60 832 | 56 493 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 218 | 738 | 179 | 205 | 139 |
| Scrap | tonnes | 111 | 1 169 | 198 | 221 | 435 |
| Titanium | | | | | | |
| Metal | tonnes | 434 | 376 | 697 | 483 | 903 |
| Oxides | tonnes | 79 643 | 73 320 | 70 052 | 85 867 | 83 905 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|--------|---------|---------|---------|
| Tungsten | | | | | | |
| Metal | tonnes | 56 | 109 | 158 | 141 | 77 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 296 040 | 29 661 | 33 913 | 37 986 | 67 420 |
| Unwrought | tonnes | 93 738 | 79 286 | 245 702 | 294 548 | 333 966 |
| Unwrought alloys | tonnes | 36 413 | 42 647 | 75 497 | 54 670 | 32 673 |
| Scrap | tonnes | 5 861 | 4 577 | 3 561 | 5 125 | 11 981 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 7 449 | 7 852 | 13 669 | 10 844 | 9 805 |
| Metal | tonnes | 5 | 122 | 602 | 989 | 820 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 1 088 430 | 1 073 979 | 1 156 484 | 1 190 670 | 1 305 835 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 3 059 122 | 2 887 349 | 2 781 769 | 3 329 441 | 3 224 101 |
| Alumina | tonnes | 61 147 | 53 469 | 50 403 | 55 184 | 58 627 |
| Alumina hydrate | tonnes | 35 064 | 19 509 | 14 595 | 30 429 | 43 246 |
| Unwrought | tonnes | 67 047 | 55 894 | 116 742 | 91 382 | 110 257 |
| Unwrought alloys | tonnes | 149 069 | 166 771 | 166 538 | 235 123 | 223 627 |
| Scrap | tonnes | 63 125 | 70 908 | 66 466 | 86 553 | 99 459 |
| Antimony | | | | | | |
| Metal | tonnes | 2 277 | 2 314 | 1 516 | 2 270 | 1 881 |
| Oxide | tonnes | 828 | 544 | 519 | 5 656 | 808 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 87 | 136 | 114 | 92 | 112 |
| Asbestos | tonnes | 13 349 | 3 085 | 130 | 192 | 23 |
| Barytes | tonnes | 39 311 | 51 952 | 50 596 | 59 378 | 47 923 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 64 157 | 72 294 | 68 776 | 60 709 | 83 784 |
| Fuller's earth | tonnes | 578 | 1 067 | 488 | 271 | 238 |
| Bismuth | | | | | | |
| Metal | tonnes | 125 | 139 | 188 | 206 | 179 |
| Bromine | kilograms | 233 000 | 166 487 | 122 194 | 73 493 | 53 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 94 | 4 | 23 | 22 | 2 |
| Oxide | tonnes | 56 | 70 | 29 | 28 | 53 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 3 975 430 | 4 646 090 | 5 897 219 | 6 266 470 | 7 852 531 |
| Portland cement | tonnes | 2 960 674 | 3 155 122 | 2 606 300 | 2 549 086 | 2 845 856 |
| Other cement | tonnes | 200 370 | 36 947 | 54 726 | 21 527 | 20 031 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 9 141 | 2 585 | 5 799 | 3 947 | 10 262 |
| Metal | tonnes | 1 202 | 666 | 921 | 1 519 | 1 308 |
| Coal | | | | | | |
| Anthracite | tonnes | 1 741 429 | 1 729 758 | 2 015 985 | 2 376 019 | 2 534 019 |
| Other coal | tonnes | 17 174 707 | 22 792 868 | 19 537 014 | 22 098 156 | 22 222 316 |
| Cobalt | | | | | | |
| Metal | tonnes | 228 | 131 | 171 | 181 | 158 |
| Oxides | tonnes | 1 336 | 1 436 | 1 401 | 1 249 | 1 352 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 902 428 | 1 057 377 | 1 052 115 | 776 980 | 1 040 099 |
| Unwrought, unrefined | tonnes | 16 024 | 9 150 | 15 283 | 2 488 | 312 |
| Unwrought, refined | tonnes | 42 505 | 28 095 | 33 781 | 74 277 | 69 039 |
| Unwrought alloys | tonnes | 6 461 | 7 256 | 4 444 | 5 254 | 4 458 |
| Scrap | tonnes | 82 473 | 83 664 | 57 315 | 112 934 | 84 824 |

Spain

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|-------------|-------------|-------------|
| Diamond | | | | | | |
| Unsorted | carats | £2 679 000 | £4 900 000 | £4 602 000 | £5 431 000 | £6 908 000 |
| Gem, cut | carats | £27 660 000 | £25 162 000 | £25 111 000 | £41 732 000 | £37 408 000 |
| Industrial | carats | £4 508 000 | £1 674 000 | £1 809 000 | £1 412 000 | £1 421 000 |
| Dust | carats | 6 555 000 | 3 435 000 | 5 545 000 | ... | 8 490 229 |
| Diatomite | tonnes | 5 349 | 4 442 | 10 575 | 7 004 | 5 186 |
| Feldspar | tonnes | 501 395 | 593 452 | 760 473 | 955 039 | 1 231 861 |
| Fluorspar | tonnes | 18 819 | 17 878 | 8 538 | 15 006 | 8 575 |
| Gold | | | | | | |
| Metal | kilograms | 30 100 | 26 690 | 27 662 | 29 702 | 20 594 |
| Waste & scrap | kilograms | 3 182 | 818 | 411 | 5 018 | 139 |
| Graphite | tonnes | 7 675 | 8 119 | 7 363 | 9 402 | 8 334 |
| Gypsum | | | | | | |
| Crude | tonnes | 47 567 | 51 797 | 65 152 | 43 004 | 47 585 |
| Calcined | tonnes | 8 143 | 38 659 | 142 719 | 14 462 | 32 078 |
| Iodine | kilograms | 1 247 590 | 796 000 | 784 718 | 710 814 | 781 787 |
| Iron ore | tonnes | 6 641 053 | 6 158 325 | 5 765 648 | 6 118 975 | 6 248 366 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 321 671 | 397 194 | 434 682 | 593 588 | 806 327 |
| Sponge & powder | tonnes | 738 608 | 640 298 | 593 176 | 670 063 | 516 423 |
| Ferro-chrome | tonnes | 246 756 | 229 425 | 579 714 | 221 156 | 200 543 |
| Ferro-silico-chrome | tonnes | 2 951 | 1 878 | ... | 48 | 1 017 |
| Ferro-silico-magnesium | tonnes | 4 035 | 3 529 | 3 979 | 6 183 | 5 256 |
| Ferro-manganese | tonnes | 53 221 | 45 100 | 27 846 | 19 817 | 16 489 |
| Ferro-silico-manganese | tonnes | 26 375 | 28 237 | 56 110 | 75 061 | 66 531 |
| Ferro-molybdenum | tonnes | 3 077 | 3 486 | 4 042 | 3 456 | 6 327 |
| Ferro-nickel | tonnes | 49 769 | 51 626 | 60 141 | 58 664 | 59 113 |
| Ferro-niobium | tonnes | 271 | 335 | 348 | 491 | 906 |
| Ferro-phosphorus | tonnes | 2 127 | 2 051 | 2 020 | 2 072 | 2 036 |
| Ferro-silicon | tonnes | 50 862 | 43 230 | 56 258 | 56 736 | 39 623 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 1 059 | 496 | 1 017 | 1 212 | 1 880 |
| Ferro-vanadium | tonnes | 1 688 | 971 | 1 050 | 1 077 | 824 |
| Other ferro-alloys | tonnes | 11 130 | 9 865 | 6 818 | 11 175 | 12 821 |
| Silicon metal | tonnes | 3 816 | 4 528 | 3 677 | 5 660 | 4 160 |
| Ingots, blooms, billets | tonnes | 855 775 | 1 062 109 | 1 524 971 | 1 495 840 | 1 219 342 |
| Scrap | tonnes | 6 290 607 | 5 533 584 | 6 389 902 | 7 093 195 | 6 975 101 |
| Kaolin | tonnes | 796 040 | 792 920 | 999 504 | 1 209 303 | 1 366 226 |
| Lead | | | | | | |
| Unwrought | tonnes | 117 501 | 178 929 | 129 925 | 154 828 | 174 618 |
| Scrap | tonnes | 13 311 | 19 914 | 21 943 | 27 866 | 30 499 |
| Lithium | | | | | | |
| Oxides | tonnes | 347 | 357 | 436 | 329 | 480 |
| Carbonate | tonnes | 713 | 1 046 | 983 | 759 | 1 553 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 1 521 | 1 303 | 3 608 | 2 901 | 2 348 |
| Magnesia | tonnes | 112 201 | 101 620 | 367 117 | 102 418 | 103 747 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 352 275 | 431 720 | 437 088 | 575 518 | 415 959 |
| Metal | tonnes | 12 475 | 8 174 | 10 569 | 9 786 | 10 537 |
| Mercury | kilograms | 734 351 | 318 263 | 350 266 | 301 097 | 572 872 |
| Mica | tonnes | 1 185 | 5 447 | 1 810 | 1 641 | 1 917 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 3 811 | 4 226 | 3 917 | 3 805 | 3 317 |
| Metal | tonnes | 34 | 91 | 45 | 30 | 31 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 31 752 | 32 795 | 27 346 | 28 234 | 28 635 |
| Oxides | tonnes | 231 | 306 | 225 | 210 | 176 |
| Crude petroleum | tonnes | 56 824 754 | 57 489 130 | 57 578 507 | 59 343 873 | 59 510 408 |
| Phosphates | tonnes | 2 062 062 | 1 805 229 | 1 790 138 | 1 800 329 | 1 768 425 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 4 830 | 3 311 | 1 612 | 1 402 | 13 799 |
| Waste & scrap | kilograms | 166 | 32 | 31 | 298 | 122 |
| Potash | | | | | | |
| Sulphate | tonnes | 32 543 | 71 719 | 37 444 | 48 174 | 47 561 |
| Chloride | tonnes | 268 306 | 245 620 | 249 881 | 269 278 | 243 017 |
| Other potassic fertilisers | tonnes | 2 862 | 9 304 | 10 427 | 22 019 | 4 665 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|---------|---------|-----------|---------|-----------|
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 522 | 523 | 548 | 692 | 824 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 44 | 28 | 87 | ... | 8 |
| Metals | tonnes | 59 | 92 | 90 | 84 | 20 |
| Salt | tonnes | 31 179 | 42 431 | 47 011 | 36 494 | 111 449 |
| Sillimanite | tonnes | 12 885 | 13 581 | 15 782 | 15 262 | 27 308 |
| Silver | | | | | | |
| Ores & concentrates | kilograms | 43 638 | 75 862 | 59 205 | 54 295 | 59 653 |
| Metal | kilograms | 175 430 | 307 864 | 133 844 | 158 529 | 106 596 |
| Sulphur and pyrites | | | | | | |
| Sulphur, crude | tonnes | 221 786 | 205 049 | 210 794 | 220 662 | 182 318 |
| Sulphur, refined | tonnes | 5 869 | 8 219 | 5 936 | 13 582 | 5 778 |
| Sulphur, sublimed & precipitated | tonnes | 220 | 238 | 753 | 533 | 243 |
| Talc | tonnes | 63 627 | 65 691 | 68 760 | 80 626 | 80 726 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | ... | ... | 30 | 4 | 62 |
| Tin | | | | | | |
| Concentrates | tonnes | 399 | 225 | 101 | 160 | 137 |
| Unwrought | tonnes | 6 313 | 6 967 | 8 072 | 7 860 | 7 109 |
| Unwrought alloys | tonnes | 175 | 58 | 90 | 292 | 170 |
| Scrap | tonnes | 2 830 | 4 842 | 2 400 | 2 111 | 1 919 |
| Titanium | | | | | | |
| Ilmenite | tonnes | 130 991 | 153 688 | 128 692 | 172 431 | 121 204 |
| Other titanium minerals | tonnes | 1 844 | 2 315 | 2 296 | 2 316 | 1 746 |
| Metal | tonnes | 3 407 | 3 241 | 2 974 | 3 722 | 3 862 |
| Oxides | tonnes | 99 887 | 107 418 | 100 814 | 116 397 | 117 203 |
| Tungsten | | | | | | |
| Metal | tonnes | 68 | 83 | 179 | 259 | 134 |
| Carbide | tonnes | 77 | 64 | 48 | 59 | 38 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 687 733 | 901 359 | 1 096 292 | 917 968 | 1 090 022 |
| Unwrought | tonnes | 4 529 | 4 939 | 7 448 | 3 862 | 8 203 |
| Unwrought alloys | tonnes | 9 499 | 10 398 | 12 477 | 16 601 | 17 858 |
| Scrap | tonnes | 2 850 | 2 506 | 4 103 | 4 062 | 3 927 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 133 013 | 145 970 | 142 949 | 143 860 | 153 619 |
| Metal | tonnes | 163 | 41 | 60 | 94 | 56 |

Note(s):-

(a) Including alloys

Sweden

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------------------------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 25 549 623 | 24 537 500 | 21 650 322 | 22 647 111 | 21 755 752 |
| Crushed rock | tonnes | 45 992 625 | 46 771 631 | 49 326 880 | 54 737 031 | 62 313 089 |
| Primary aluminium | tonnes | 101 420 | 100 125 | 100 707 | 100 591 | 102 107 |
| Cement clinker | tonnes | 2 421 693 | 2 364 724 | 2 235 138 | 2 385 509 | *2 400 000 |
| Cement, finished | tonnes | 2 644 365 | 2 764 954 | 2 544 647 | 2 712 810 | 2 731 000 |
| Copper, mine | tonnes (metal content) | 74 269 | 71 991 | 83 143 | 82 415 | 87 068 |
| Copper, smelter | tonnes | 179 364 | 186 984 | 175 475 | 174 459 | 153 399 |
| Copper, refined | tonnes | 216 237 | 224 402 | 214 181 | 235 620 | 223 482 |
| Feldspar | tonnes | 40 000 | 37 000 | 44 000 | 38 000 | 30 000 |
| Gold, mine | kilograms (metal content) | 4 986 | 5 757 | 5 900 | 6 564 | 6 564 |
| Graphite | tonnes | 1 035 | — | — | — | — |
| Iron ore | tonnes | 19 486 000 | 20 281 000 | 21 498 000 | 22 272 000 | 23 255 000 |
| Pig iron | tonnes | 3 725 000 | 3 815 000 | 3 819 000 | 3 992 000 | 3 800 000 |
| Crude steel | tonnes | 5 518 100 | 5 753 300 | 5 707 300 | 5 978 100 | 5 725 700 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 107 036 | 118 800 | 106 100 | 127 300 | 127 500 |
| Ferro-silicon | tonnes | 21 197 | 21 500 | 17 100 | 18 500 | 9 800 |
| Lead, mine | tonnes (metal content) | 85 975 | 42 954 | 50 962 | 54 347 | 60 445 |
| Lead, refined | tonnes | 75 608 | 63 451 | 73 340 | 73 548 | 72 600 |
| Selenium metal | tonnes | 88 | 118 | 107 | 131 | ... |
| Silver, mine | kilograms (metal content) | 306 029 | 320 823 | 340 701 | 319 563 | 309 933 |
| Sulphur and pyrites | | | | | | |
| Recovered (a) | tonnes (sulphur content) | 160 100 | 177 600 | 180 200 | 185 800 | 180 000 |
| Recovered (b) | tonnes (sulphur content) | 54 530 | 51 065 | 62 454 | 62 238 | 59 839 |
| Talc | tonnes | 14 000 | 20 000 | 7 000 | 8 000 | 7 000 |
| Zinc, mine | tonnes (metal content) | 156 334 | 148 620 | 185 884 | 197 034 | 215 691 |

Note(s):-

- (a) From metal sulphide processing
- (b) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|-----------|-----------|-----------|-----------|-----------|
| Primary aggregates | tonnes | 2 206 841 | 2 132 194 | 2 067 542 | 2 213 385 | 2 447 200 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 1 453 | 1 506 | 1 939 | 6 160 | 14 133 |
| Unwrought | tonnes | 3 183 | 2 529 | 101 | 22 096 | 9 390 |
| Unwrought alloys | tonnes | 62 986 | 78 675 | 75 903 | 105 752 | 88 311 |
| Scrap | tonnes | 63 869 | 70 721 | 109 170 | 79 433 | 69 166 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 6 716 | 9 401 | 10 082 | 9 486 | 7 419 |
| Bismuth | | | | | | |
| Metal | tonnes | 2 | 13 | ... | ... | ... |
| Cadmium | | | | | | |
| Oxide | tonnes | 54 | 78 | 120 | 139 | 140 |
| Cement | | | | | | |
| Portland cement | tonnes | 1 241 183 | 1 285 376 | 1 064 305 | 867 450 | 1 295 834 |
| Other cement | tonnes | 2 341 | 1 469 | 2 818 | 2 492 | 2 555 |
| Chromium | | | | | | |
| Metal | tonnes | ... | ... | ... | ... | 55 |
| Cobalt | | | | | | |
| Metal | tonnes | 110 | 146 | 117 | 127 | 127 |
| Oxides | tonnes | 12 | ... | ... | ... | ... |
| Copper | | | | | | |
| Unwrought, refined | tonnes | 70 682 | 91 869 | 77 216 | 81 878 | 99 824 |
| Unwrought alloys | tonnes | 8 827 | 6 486 | 7 104 | 5 040 | 5 247 |
| Scrap | tonnes | 29 680 | 34 747 | 35 982 | 44 366 | 43 816 |
| Diatomite | tonnes | 1 605 | 579 | 491 | 492 | 4 423 |
| Feldspar | tonnes | 27 662 | 25 400 | 23 847 | 23 752 | 16 515 |
| Fluorspar | tonnes | 5 603 | 5 998 | 8 981 | 8 702 | 8 206 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|------------|------------|------------|------------|------------|
| Gold | | | | | | |
| Metal | kilograms | 6 000 | 12 000 | 10 000 | 19 000 | 18 000 |
| Waste & scrap | kilograms | 79 000 | 24 000 | ... | 20 000 | 1 000 |
| Graphite | tonnes | 2 164 | 600 | 302 | 260 | 195 |
| Gypsum | | | | | | |
| Crude & calcined | tonnes | 5 692 | 6 350 | 5 993 | 7 343 | 7 832 |
| Iodine | kilograms | 1 000 | 2 000 | 4 000 | — | 4 000 |
| Iron ore | tonnes | 13 619 293 | 14 233 450 | 15 559 741 | 17 336 835 | 17 597 351 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 35 593 | 30 079 | 118 378 | 116 550 | 99 496 |
| Sponge & powder | tonnes | 11 324 | 11 356 | 9 311 | 12 306 | 9 064 |
| Ferro-chrome | tonnes | 1 023 | 617 | 1 070 | 1 830 | 1 801 |
| Ferro-silico-magnesium | tonnes | 1 102 | 392 | 479 | 235 | 60 |
| Ferro-manganese & Fe-Si-Mn | tonnes | 1 189 | 6 903 | 1 159 | 1 605 | 3 456 |
| Ferro-molybdenum | tonnes | 65 | 745 | 71 | 87 | 158 |
| Ferro-phosphorus | tonnes | 399 | 1 203 | 463 | 281 | 294 |
| Ferro-silicon | tonnes | 762 | 736 | 182 | 441 | 731 |
| Ferro-vanadium | tonnes | 24 | 427 | 27 | 99 | 249 |
| Other ferro-alloys | tonnes | 3 138 | 6 903 | 1 527 | 2 796 | 1 525 |
| Silicon metal | tonnes | 1 766 | 6 742 | 2 790 | 6 387 | 6 049 |
| Ingots, blooms, billets | tonnes | 197 800 | 297 913 | 166 876 | 367 562 | 232 958 |
| Scrap | tonnes | 560 297 | 722 509 | 708 654 | 741 254 | 863 474 |
| Kaolin | tonnes | 7 199 | 8 200 | 8 791 | 15 544 | 18 473 |
| Lead | | | | | | |
| Ores & concentrates | tonnes | 118 723 | 63 204 | 59 340 | 60 105 | 62 155 |
| Unwrought | tonnes | 54 414 | 61 079 | 71 217 | 68 215 | 70 042 |
| Scrap | tonnes | 545 | 424 | 237 | 554 | 307 |
| Manganese | | | | | | |
| Metal | tonnes | 99 | 425 | 352 | 196 | 143 |
| Mercury | kilograms | 23 000 | ... | ... | 0 | 1 000 |
| Mica | tonnes | 102 | 89 | 51 | 58 | 83 |
| Nickel | | | | | | |
| Unwrought | tonnes | 613 | 1 887 | 384 | 126 | 112 |
| Scrap | tonnes | 432 | 1 661 | 1 096 | 1 138 | 4 369 |
| Oxides | tonnes | 125 | 142 | 181 | 317 | 291 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | £952 000 | £610 000 | £280 000 | £1 037 000 | £663 000 |
| Waste & scrap | kilograms | 46 465 | 27 536 | 27 000 | 29 000 | 25 000 |
| Potash | | | | | | |
| Sulphate | tonnes | 141 298 | 136 917 | 127 687 | 70 066 | 54 841 |
| Salt | tonnes | 1 849 | 20 208 | 156 140 | 10 354 | 8 783 |
| Silver | | | | | | |
| Metal | kilograms | 291 000 | 408 000 | 433 000 | 473 000 | 421 000 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 1 453 | 493 | 9 572 | 4 542 | 16 883 |
| Sulphur, sublimed & precipitated | tonnes | 2 | 2 | 0 | 139 | 239 |
| Talc | tonnes | 5 138 | 14 370 | 8 061 | 9 388 | 10 080 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 329 | 313 | 238 | 261 | 217 |
| Scrap | tonnes | 125 | 178 | 88 | 161 | 45 |
| Titanium | | | | | | |
| Metal | tonnes | 1 494 | 1 256 | 1 004 | 1 737 | 1 955 |
| Oxides | tonnes | 13 653 | 11 058 | 11 713 | 13 912 | 14 306 |
| Tungsten | | | | | | |
| Metal | tonnes | 32 | 364 | 334 | 102 | 414 |
| Carbide | tonnes | 561 | 385 | 68 | 114 | 37 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 261 909 | 283 701 | 305 058 | 379 155 | 372 925 |
| Unwrought (a) | tonnes | 494 | 629 | 496 | 280 | 165 |
| Scrap | tonnes | 13 546 | 23 833 | 42 715 | 21 598 | 16 134 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|------------|------------|
| Primary aggregates | tonnes | 417 298 | 838 286 | 615 470 | 729 992 | 810 385 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 28 463 | 1 920 | 3 317 | 28 758 | 3 171 |
| Alumina | tonnes | 133 786 | 172 761 | 196 834 | 205 734 | 191 504 |
| Alumina hydrate | tonnes | 54 262 | 55 379 | 54 825 | 66 156 | 62 549 |
| Unwrought | tonnes | 16 612 | 13 991 | 21 584 | 29 493 | 17 916 |
| Unwrought alloys | tonnes | 80 571 | 106 217 | 97 276 | 120 732 | 117 202 |
| Scrap | tonnes | 24 295 | 18 450 | 16 255 | 24 082 | 24 309 |
| Antimony | | | | | | |
| Metal | tonnes | 108 | 176 | 269 | 234 | 199 |
| Oxide | tonnes | 401 | 485 | 232 | 328 | 377 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 18 | 19 | 17 | 13 | 6 |
| Barytes | tonnes | 1 892 | 1 927 | 1 848 | 2 854 | 4 610 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 136 742 | 125 852 | 140 176 | 82 414 | 48 564 |
| Bismuth | | | | | | |
| Metal | tonnes | 16 | 12 | 8 | 13 | 11 |
| Bromine | kilograms | — | ... | 0 | 5 000 | 13 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 65 | 150 | 402 | 330 | 282 |
| Oxide | tonnes | 10 | — | 26 | 71 | 35 |
| Cement | | | | | | |
| Portland cement | tonnes | 210 732 | 208 113 | 209 882 | 218 928 | 242 326 |
| Other cement | tonnes | 25 186 | 25 151 | 27 286 | 27 286 | 34 597 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 200 000 | 280 000 | 215 000 | 457 000 | 240 000 |
| Metal | tonnes | 1 275 | 1 265 | 823 | 1 903 | 1 150 |
| Coal | | | | | | |
| Anthracite | tonnes | 10 194 | 11 078 | 99 008 | 7 304 | 13 013 |
| Other coal | tonnes | 2 758 180 | 2 652 007 | 3 081 407 | 3 059 218 | 3 187 798 |
| Cobalt | | | | | | |
| Metal | tonnes | 813 | 599 | 663 | 711 | 660 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 324 398 | 349 409 | 300 566 | 340 858 | 311 085 |
| Unwrought, unrefined | tonnes | 29 | 36 | 3 | 2 | 15 452 |
| Unwrought, refined | tonnes | 49 088 | 36 976 | 48 468 | 34 912 | 40 106 |
| Unwrought alloys | tonnes | 3 815 | 4 622 | 2 947 | 2 762 | 2 926 |
| Scrap | tonnes | 31 373 | 43 544 | 52 091 | 76 672 | 50 940 |
| Diamond | | | | | | |
| Unsorted | carats | £84 000 | £156 000 | £203 000 | £309 000 | £220 000 |
| Gem, cut | carats | £3 634 000 | £2 337 000 | £3 456 000 | £3 205 000 | £2 406 000 |
| Industrial | carats | £116 000 | £51 000 | £30 000 | £63 000 | £258 000 |
| Dust | carats | £5 248 000 | £2 554 000 | £2 374 000 | £2 823 000 | £2 573 000 |
| Diatomite | tonnes | 4 684 | 3 913 | 4 143 | 5 475 | 5 096 |
| Feldspar | tonnes | 6 430 | 6 765 | 5 960 | 7 019 | 9 387 |
| Fluorspar | tonnes | 16 103 | 16 978 | 19 117 | 14 640 | 15 790 |
| Gold | | | | | | |
| Metal | kilograms | £7 671 705 | £7 655 000 | £8 382 000 | £8 498 000 | £8 625 000 |
| Waste & scrap | kilograms | £149 000 | £1 126 000 | — | £5 726 | £180 000 |
| Graphite | tonnes | 1 026 | 1 022 | 1 428 | 1 473 | 1 539 |
| Gypsum | | | | | | |
| Crude | tonnes | 177 264 | 211 432 | 269 711 | 269 060 | 206 972 |
| Calcined | tonnes | 87 144 | 82 831 | 103 481 | 160 784 | 97 746 |
| Iodine | kilograms | 1 000 | 5 000 | 5 000 | 1 000 | 2 000 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 108 597 | 115 528 | 110 920 | 102 101 | 100 072 |
| Burnt pyrites | tonnes | 15 763 | 41 970 | 29 658 | 36 351 | 6 095 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|------------|------------|------------|------------|------------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 40 289 | 26 215 | 24 894 | 29 369 | 38 223 |
| Sponge & powder | tonnes | 3 704 | 2 667 | 2 746 | 3 074 | 2 091 |
| Ferro-chrome | tonnes | 92 574 | 109 391 | 85 830 | 72 926 | 86 040 |
| Ferro-silico-chrome | tonnes | 3 239 | 2 789 | 1 094 | 2 521 | 2 030 |
| Ferro-silico-magnesium | tonnes | 2 180 | 1 195 | 1 060 | 932 | 914 |
| Ferro-manganese | tonnes | 33 034 | 33 238 | 37 190 | 32 782 | 43 005 |
| Ferro-silico-manganese | tonnes | 17 309 | 13 357 | 19 493 | 17 887 | 18 995 |
| Ferro-molybdenum | tonnes | 3 585 | 3 728 | 3 797 | 4 369 | 5 364 |
| Ferro-nickel | tonnes | 12 418 | 8 765 | 8 738 | 948 | 7 431 |
| Ferro-niobium | tonnes | 623 | 747 | 732 | 809 | 1 156 |
| Ferro-phosphorus | tonnes | 777 | 1 553 | 739 | 920 | 314 |
| Ferro-silicon | tonnes | 42 809 | 41 278 | 41 098 | 38 534 | 48 950 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 1 736 | 1 709 | 1 405 | 1 627 | 3 212 |
| Ferro-tungsten & Fe-Si-W | tonnes | 867 | 183 | 321 | 564 | 195 |
| Ferro-vanadium | tonnes | 855 | 1 037 | 1 059 | 1 375 | 1 316 |
| Other ferro-alloys | tonnes | 7 631 | 5 822 | 4 519 | 6 534 | 5 888 |
| Silicon metal | tonnes | 5 095 | 10 639 | 6 316 | 10 542 | 10 832 |
| Ingots, blooms, billets | tonnes | 366 264 | 426 018 | 495 734 | 491 102 | 294 616 |
| Scrap | tonnes | 376 456 | 429 341 | 351 024 | 271 041 | 254 358 |
| Kaolin | tonnes | 422 071 | 437 528 | 467 111 | 452 215 | 480 358 |
| Lead | | | | | | |
| Unwrought | tonnes | 6 777 | 5 023 | 4 190 | 6 088 | 6 098 |
| Scrap | tonnes | 2 548 | 1 970 | 2 463 | 4 062 | 3 538 |
| Lithium | | | | | | |
| Oxides | tonnes | 130 | 155 | 113 | 162 | 176 |
| Carbonate | tonnes | 183 | 179 | 186 | 208 | 259 |
| Magnesite and magnesia | | | | | | |
| Magnesia | tonnes | 40 361 | 26 875 | 28 074 | 29 455 | 21 293 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 1 871 | 98 | 91 | 62 | 119 |
| Metal | tonnes | 8 072 | 6 660 | 3 618 | 2 641 | 2 632 |
| Mercury | kilograms | 2 096 | 4 004 | 3 022 | 4 000 | 3 000 |
| Mica | tonnes | 562 | 547 | 566 | 514 | 592 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 5 409 | 6 132 | 5 235 | 5 826 | 5 690 |
| Metal | tonnes | 249 | 219 | 252 | 458 | 280 |
| Oxides | tonnes | 659 | 791 | 784 | 594 | 392 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 6 124 | 12 476 | 4 032 | 4 051 | 4 346 |
| Unwrought | tonnes | 24 547 | 24 982 | 25 423 | 27 687 | 26 931 |
| Unwrought alloys | tonnes | 942 | 863 | 857 | 1 076 | 1 324 |
| Scrap | tonnes | 13 495 | 18 399 | 12 543 | 10 523 | 8 946 |
| Crude petroleum | tonnes | 18 262 971 | 18 665 040 | 20 436 192 | 20 873 087 | 19 770 639 |
| Phosphates | tonnes | 81 983 | 66 930 | 18 346 | 129 | 156 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | £5 430 000 | £6 134 000 | £6 531 000 | £4 985 000 | £6 513 000 |
| Waste & scrap | kilograms | 1 000 | 265 | 339 000 | 273 000 | 577 000 |
| Potash | | | | | | |
| Sulphate | tonnes | 3 958 | 4 755 | 884 | 2 819 | 4 911 |
| Chloride | tonnes | 54 531 | 44 086 | 33 748 | 68 457 | 43 106 |
| Other potassic fertilisers | tonnes | 4 651 | 2 285 | 9 862 | 4 409 | 1 119 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | ... | ... | 75 | 58 | 26 |
| Metals | tonnes | 28 | 39 | 48 | 56 | 41 |
| Salt | tonnes | 908 355 | 1 030 471 | 828 845 | 929 193 | 738 931 |
| Sillimanite | tonnes | 14 145 | 12 308 | 14 155 | 5 470 | 5 086 |
| Silver | | | | | | |
| Metal | kilograms | 153 000 | 116 000 | 111 000 | 161 000 | 151 000 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 482 | 386 | 291 | 699 | 319 |
| Sulphur | tonnes | 69 293 | 63 948 | 89 505 | 61 305 | 71 337 |
| Sulphur, sublimed & precipitated | tonnes | 7 141 | 5 010 | 5 632 | 2 693 | 16 |
| Talc | tonnes | 34 297 | 42 307 | 45 509 | 43 288 | 45 376 |

Sweden

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|--------|--------|--------|--------|--------|--------|
| Tin | | | | | | |
| Unwrought | tonnes | 608 | 596 | 421 | 468 | 551 |
| Unwrought alloys | tonnes | 364 | 400 | 379 | 256 | 210 |
| Scrap | tonnes | 130 | 57 | 71 | 39 | 60 |
| Titanium | | | | | | |
| Metal | tonnes | 1 929 | 2 000 | 1 707 | 1 856 | 1 382 |
| Oxides | tonnes | 45 034 | 43 260 | 44 721 | 44 812 | 50 099 |
| Tungsten | | | | | | |
| Metal | tonnes | 990 | 136 | 470 | 559 | 502 |
| Carbide | tonnes | 1 239 | 688 | 665 | 747 | 925 |
| Vanadium | | | | | | |
| Metal | tonnes | 77 | 49 | 49 | 46 | 20 |
| Zinc | | | | | | |
| Unwrought | tonnes | 27 156 | 25 562 | 22 320 | 29 682 | 29 847 |
| Unwrought alloys | tonnes | 11 170 | 12 145 | 13 496 | 18 009 | 16 812 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 435 | 424 | 480 | 564 | 588 |
| Metal | tonnes | 66 | 138 | 172 | 82 | 91 |

Switzerland

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|------------|------------|------------|------------|------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | ... | ... | ... | 26 000 000 | 46 500 000 |
| Crushed rock | tonnes | ... | ... | ... | 3 000 000 | 5 300 000 |
| Primary aluminium | tonnes | 36 288 | 40 224 | 43 865 | 44 879 | 44 800 |
| Cement, finished | tonnes | 3 920 000 | 3 771 000 | 3 700 000 | 3 800 000 | 3 900 000 |
| Gypsum | tonnes | *300 000 | *300 000 | *300 000 | *300 000 | *300 000 |
| Pig iron | tonnes | *80 000 | *80 000 | *80 000 | *80 000 | *80 000 |
| Crude steel | tonnes | *1 000 000 | *1 000 000 | *1 000 000 | *1 000 000 | 1 160 000 |
| Lead, refined | tonnes | 10 250 | 8 700 | 9 600 | 9 300 | 9 600 |
| Salt | tonnes | 384 000 | 400 000 | 461 000 | 486 000 | 539 000 |

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|------------|-------------|-------------|
| Primary aggregates | tonnes | 118 787 | 229 451 | 184 678 | 296 911 | 283 508 |
| Aluminium and bauxite | | | | | | |
| Unwrought (a) | tonnes | 5 536 | 7 139 | 775 | 8 180 | 14 499 |
| Scrap | tonnes | 100 096 | 96 217 | 96 860 | 108 536 | 122 729 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 123 026 | 130 261 | 106 617 | 106 263 | 121 014 |
| Portland cement | tonnes | 20 968 | 12 942 | 14 396 | 33 524 | 46 939 |
| Chromium | | | | | | |
| Metal | tonnes | 156 | 31 | 66 | 319 | 249 |
| Cobalt | | | | | | |
| Metal | tonnes | 205 | 61 | 104 | 95 | 140 |
| Copper | | | | | | |
| Unwrought | tonnes | 128 | 907 | 1 163 | 1 872 | 10 691 |
| Scrap | tonnes | 58 356 | 55 491 | 56 398 | 69 243 | 74 878 |
| Diamond | | | | | | |
| Gem, rough | carats | 1 110 000 | 55 000 | 65 000 | 140 000 | 195 608 |
| Gem, cut | carats | 1 130 000 | 650 000 | 427 033 | 338 524 | 407 411 |
| Industrial | carats | 35 000 | 40 000 | 66 354 | 18 185 | 13 934 |
| Dust | carats | 80 615 000 | 81 580 000 | 95 290 000 | 120 790 000 | 126 190 000 |
| Diatomite | | | | | | |
| Gold | tonnes | 485 | 1 224 | 110 | 114 | 136 |
| Metal | kilograms | 1 266 166 | 922 468 | 885 907 | 1 125 319 | 1 340 912 |
| Waste & scrap | kilograms | 27 274 | 16 868 | 14 039 | 55 166 | 2 823 |
| Gypsum | | | | | | |
| Crude | tonnes | 25 122 | 1 709 | 44 | 158 | 7 |
| Calcined | tonnes | 1 738 | 1 667 | 1 680 | 1 002 | 1 088 |
| Iron, steel and ferro-alloys | | | | | | |
| Ingots, blooms, billets | tonnes | 2 459 | 31 317 | 51 008 | 51 639 | 83 219 |
| Scrap | tonnes | 457 523 | 412 341 | 451 452 | 539 629 | 561 972 |
| Lead | | | | | | |
| Unwrought | tonnes | 4 074 | 7 160 | 7 086 | 5 407 | 4 657 |
| Scrap | tonnes | 4 479 | 2 565 | 2 267 | 1 320 | 2 932 |
| Lithium | | | | | | |
| Oxides | tonnes | 96 | 53 | 78 | 80 | 78 |
| Mercury | | | | | | |
| Nickel | kilograms | 92 862 | 36 900 | 7 793 | 316 631 | 171 790 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 179 | 105 | 125 | 49 | 73 |
| Scrap | tonnes | 492 | 587 | 880 | 1 106 | 1 403 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 63 640 | 73 384 | 67 305 | 57 268 | 42 102 |
| Palladium | kilograms | 44 317 | 73 072 | 47 110 | 61 960 | 75 105 |
| Other platinum metals | kilograms | 324 | 829 | 203 | 1 703 | 2 047 |
| Waste & scrap | kilograms | 49 289 | 122 380 | 85 301 | 118 241 | 235 630 |
| Salt | | | | | | |
| Silver | tonnes | 10 146 | 28 394 | 52 482 | 41 044 | 30 461 |
| Metal | kilograms | 1 627 403 | 1 306 190 | 1 544 676 | 1 085 657 | 1 044 011 |

Switzerland

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------|--------|-------|-------|-------|-------|-------|
| Talc | tonnes | 1 070 | 847 | 1 777 | 72 | 105 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 84 | 25 | 112 | 72 | 29 |
| Scrap | tonnes | 105 | 60 | 73 | 107 | 157 |
| Titanium | | | | | | |
| Metal | tonnes | 465 | 400 | 398 | 562 | 560 |
| Oxides | tonnes | 525 | 666 | 499 | 740 | 1 020 |
| Tungsten | | | | | | |
| Metal | tonnes | 121 | 185 | 244 | 268 | 316 |
| Zinc | | | | | | |
| Scrap | tonnes | 2 405 | 2 358 | 2 415 | 2 582 | 2 480 |

Note(s):-

(a) Including alloys

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|--------|------------|------------|-------------|-------------|-------------|
| Primary aggregates | tonnes | 6 307 738 | 6 554 457 | 6 134 548 | 6 413 474 | 6 261 007 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 4 669 | 7 653 | 5 881 | 8 066 | 9 929 |
| Alumina | tonnes | 65 877 | 81 002 | 93 357 | 87 235 | 88 358 |
| Alumina hydrate | tonnes | 19 621 | 17 953 | 15 340 | 16 945 | 16 823 |
| Unwrought | tonnes | 67 203 | 66 958 | 60 791 | 73 413 | 75 987 |
| Unwrought alloys | tonnes | 63 319 | 52 470 | 64 351 | 59 125 | 56 059 |
| Scrap | tonnes | 15 910 | 12 565 | 11 327 | 20 734 | 27 617 |
| Antimony | | | | | | |
| Ores & concentrates | tonnes | 10 | 154 | 89 | 5 004 | 1 722 |
| Metal | tonnes | 44 | 52 | 50 | 93 | 58 |
| Oxide | tonnes | 1 033 | 720 | 927 | 1 174 | 1 026 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 2 | 4 | 4 | 2 | 5 |
| Barytes | tonnes | 1 917 | 1 844 | 2 433 | 2 187 | 2 242 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 21 715 | 21 128 | 20 540 | 20 027 | 20 861 |
| Fuller's earth | tonnes | 1 682 | 1 544 | 1 541 | 1 641 | 1 844 |
| Bismuth | | | | | | |
| Metal | tonnes | 18 | 15 | 15 | 6 | 15 |
| Cadmium | | | | | | |
| Metal | tonnes | 7 | 6 | 4 | 30 | 5 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 156 910 | 146 388 | 47 050 | 64 882 | 71 542 |
| Portland cement | tonnes | 180 860 | 198 607 | 319 539 | 313 292 | 352 409 |
| Other cement | tonnes | 86 391 | 56 272 | 41 949 | 58 671 | 48 309 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 818 | 525 | 716 | 671 | 624 |
| Metal | tonnes | 112 | 116 | 110 | 141 | 127 |
| Coal | | | | | | |
| Anthracite | tonnes | 12 492 | 6 828 | 6 146 | 7 396 | 6 640 |
| Other coal | tonnes | 155 809 | 115 061 | 79 125 | 169 472 | 93 584 |
| Cobalt | | | | | | |
| Metal | tonnes | 394 | 342 | 291 | 361 | 423 |
| Copper | | | | | | |
| Unwrought | tonnes | 8 621 | 5 899 | 5 206 | 6 779 | 4 734 |
| Unwrought alloys | tonnes | 3 777 | 3 300 | 3 496 | 4 481 | 3 897 |
| Scrap | tonnes | 13 800 | 8 406 | 9 469 | 11 881 | 9 937 |
| Diamond | | | | | | |
| Gem, rough | carats | 3 475 000 | 75 000 | 80 344 | 144 707 | 194 997 |
| Gem, cut | carats | 875 000 | 850 000 | 642 870 | 820 021 | 1 130 984 |
| Industrial | carats | 735 000 | 1 160 000 | 213 535 | 56 907 | 100 142 |
| Dust | carats | 89 730 000 | 94 935 000 | 103 005 000 | 126 815 000 | 142 000 000 |
| Diatomite | tonnes | 4 332 | 3 534 | 5 425 | 11 204 | 3 291 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Feldspar | tonnes | 7 408 | 7 541 | 7 229 | 8 347 | 7 977 |
| Fluorspar | tonnes | 497 | 916 | 413 | 991 | 714 |
| Gold | | | | | | |
| Metal | kilograms | 1 360 081 | 1 217 189 | 1 218 361 | 1 048 386 | 1 650 117 |
| Waste & scrap | kilograms | 45 122 | 48 626 | 32 454 | 52 053 | 72 764 |
| Graphite | tonnes | 538 | 918 | 863 | 395 | 652 |
| Gypsum | | | | | | |
| Crude | tonnes | 65 203 | 64 517 | 50 760 | 64 677 | 76 460 |
| Calcined | tonnes | 66 156 | 72 876 | 75 394 | 81 971 | 88 511 |
| Iodine | kilograms | 28 203 | 14 000 | 27 226 | 7 428 | 7 949 |
| Iron ore | | | | | | |
| Burnt pyrites | tonnes | 15 897 | 12 239 | 9 157 | 4 283 | 6 293 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 33 986 | 19 466 | 22 120 | 22 954 | 24 628 |
| Sponge & powder | tonnes | 6 176 | 6 163 | 6 792 | 7 631 | 9 035 |
| Ferro-aluminium | tonnes | 1 | 48 | 24 | ... | ... |
| Ferro-chrome | tonnes | 1 020 | 978 | 1 504 | 1 161 | 1 203 |
| Ferro-manganese | tonnes | 6 161 | 7 567 | 7 406 | 7 884 | 9 033 |
| Ferro-silico-manganese | tonnes | 4 655 | 5 156 | 4 444 | 6 481 | 4 341 |
| Ferro-silicon | tonnes | 5 952 | 4 291 | 5 417 | 5 194 | 4 630 |
| Other ferro-alloys | tonnes | 1 511 | 1 198 | 1 070 | 1 203 | 1 602 |
| Silicon metal | tonnes | 701 | 1 168 | 716 | 694 | 1 135 |
| Ingots, blooms, billets | tonnes | 44 303 | 16 032 | 17 132 | 20 896 | 38 694 |
| Scrap | tonnes | 246 179 | 347 211 | 412 584 | 544 911 | 390 607 |
| Kaolin | tonnes | 37 383 | 37 298 | 45 012 | 41 350 | 37 368 |
| Lead | | | | | | |
| Unwrought | tonnes | 7 098 | 5 943 | 6 047 | 7 831 | 8 067 |
| Lithium | | | | | | |
| Oxides | tonnes | 91 | 97 | 89 | 89 | 81 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 394 | 228 | 225 | 294 | 168 |
| Magnesia | tonnes | 4 600 | 4 521 | 5 744 | 6 538 | 6 708 |
| Manganese | | | | | | |
| Metal | tonnes | 449 | 404 | 501 | 484 | 486 |
| Mercury | kilograms | 24 309 | 18 901 | 9 354 | 9 704 | 5 846 |
| Mica | tonnes | 300 | 289 | 357 | 426 | 601 |
| Molybdenum | | | | | | |
| Metal | tonnes | 25 | 21 | 26 | 25 | 31 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 1 591 | 1 417 | 1 392 | 1 333 | 1 401 |
| Crude petroleum | tonnes | 4 773 040 | 4 869 479 | 4 551 511 | 5 086 184 | 4 744 965 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 68 461 | 56 039 | 69 111 | 47 742 | 51 377 |
| Palladium | kilograms | 94 074 | 106 412 | 54 805 | 96 530 | 46 565 |
| Other platinum metals | kilograms | 538 | 1 063 | 816 | 3 725 | 780 |
| Waste & scrap | kilograms | 19 435 | 49 569 | 129 698 | 161 433 | 156 229 |
| Potash | | | | | | |
| Sulphate | tonnes | 1 815 | 2 496 | 2 621 | 2 170 | 3 325 |
| Chloride | tonnes | 19 144 | 23 053 | 15 792 | 19 185 | 18 971 |
| Other potassic fertilisers | tonnes | 1 922 | 3 983 | 3 721 | 3 039 | 3 411 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | ... | ... | ... | ... | 34 |
| Salt | tonnes | 7 216 | 7 692 | 13 984 | 9 299 | 48 114 |
| Sillimanite | tonnes | 350 | 246 | 253 | 315 | 413 |
| Silver | | | | | | |
| Metal | kilograms | 1 476 601 | 1 028 138 | 746 184 | 1 082 664 | 1 484 207 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes | 217 | 239 | 207 | 117 | 76 |
| Sulphur | tonnes | 40 754 | 30 140 | 25 968 | 24 940 | 24 977 |
| Sulphur, sublimed & precipitated | tonnes | 24 | 93 | 193 | 120 | 61 |
| Talc | tonnes | 15 385 | 12 916 | 11 490 | 9 579 | 10 254 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 1 017 | 893 | 803 | 726 | 909 |
| Titanium | | | | | | |
| Metal | tonnes | 641 | 621 | 535 | 735 | 1 273 |
| Oxides | tonnes | 17 678 | 18 265 | 18 689 | 19 349 | 19 055 |

Switzerland

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|--------|--------|--------|--------|--------|--------|
| Tungsten | | | | | | |
| Metal | tonnes | 220 | 152 | 139 | 170 | 235 |
| Zinc | | | | | | |
| Unwrought | tonnes | 20 567 | 21 073 | 11 730 | 14 577 | 13 045 |
| Unwrought alloys | tonnes | 3 735 | 3 796 | 3 798 | 3 194 | 2 601 |
| Zirconium | | | | | | |
| Metal | tonnes | 66 | 115 | 85 | 86 | 117 |

Note(s):-

(a) Including alloys

Turkey

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------------|---|------------|------------|------------|------------|-------------|
| Bauxite | tonnes | 242 040 | 287 403 | 364 306 | 365 836 | 356 480 |
| Alumina | tonnes (Al ₂ O ₃ content) | 145 993 | 152 869 | 160 675 | 169 991 | 112 558 |
| Primary aluminium | tonnes | 61 730 | 62 501 | 63 140 | 64 002 | — |
| Antimony, mine | tonnes (metal content) | *20 | *20 | *20 | *20 | *20 |
| Barytes | tonnes | 102 323 | 106 943 | 119 648 | 134 504 | 70 925 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 674 178 | 559 224 | 831 146 | 643 153 | 582 735 |
| Sepiolite | tonnes | 10 253 | ... | ... | ... | ... |
| Borates | tonnes | 1 399 000 | 1 328 000 | 1 324 000 | 1 727 000 | 2 087 000 |
| Cement, finished | tonnes | 30 125 000 | 32 576 701 | 35 076 902 | 38 019 112 | *38 000 000 |
| Chromium ores and concentrates | tonnes | 454 549 | 326 390 | 281 783 | 436 639 | 688 377 |
| Coal | | | | | | |
| Anthracite | tonnes | 3 369 727 | 3 312 690 | 3 090 458 | 2 842 952 | 2 785 505 |
| Bituminous | tonnes | 55 860 | 118 235 | 336 714 | 738 915 | 737 701 |
| Lignite | tonnes | 58 172 982 | 49 626 612 | 43 749 420 | 43 754 159 | 60 867 574 |
| Copper, mine | tonnes (metal content) | 56 820 | 48 217 | 43 245 | 38 876 | 30 067 |
| Copper, smelter | tonnes | 23 751 | 19 375 | 14 426 | 6 998 | — |
| Copper, refined | tonnes | 58 400 | 41 000 | 36 900 | 63 000 | 95 000 |
| Feldspar | tonnes | 1 510 293 | 1 766 387 | 1 862 310 | 1 983 336 | 2 331 971 |
| Fluorspar | tonnes | 3 752 | 5 344 | 718 | 880 | 800 |
| Gold, mine | kilograms (metal content) | *1 100 | *4 500 | 5 370 | 3 260 | — |
| Graphite | tonnes | ... | 1 393 | 942 | *28 | — |
| Gypsum | tonnes | 328 656 | 264 038 | 196 668 | 250 099 | 24 421 |
| Iron ore | tonnes | 4 434 621 | 3 432 775 | 3 429 070 | 3 856 536 | 3 889 934 |
| Pig iron | tonnes | 5 289 000 | 5 003 000 | 5 693 764 | 5 835 889 | 6 371 084 |
| Crude steel | tonnes | 14 382 257 | 16 045 522 | 17 644 020 | 19 868 118 | 20 961 240 |
| Ferro-alloys | | | | | | |
| Ferro-chrome | tonnes | 50 735 | 11 200 | 35 393 | 28 701 | 26 043 |
| Ferro-silico-chrome | tonnes | 5 895 | 7 245 | 6 805 | 5 526 | — |
| Kaolin | tonnes | 505 773 | 372 344 | 370 455 | 536 008 | 615 271 |
| Lead, mine | tonnes (metal content) | 17 884 | 17 277 | 17 483 | 18 792 | 11 341 |
| Lead, refined | tonnes | *9 000 | *9 000 | *9 000 | *9 000 | *9 000 |
| Magnesite | tonnes | 2 738 086 | 3 044 440 | 3 224 278 | 3 732 952 | 2 372 206 |
| Manganese ore | tonnes | 20 000 | 20 000 | 18 000 | 13 751 | 4 751 |
| Nickel, mine | tonnes (metal content) | — | — | 640 | — | 700 |
| Perlite | tonnes | 154 515 | 151 902 | 136 683 | 133 829 | 156 935 |
| Crude petroleum | tonnes | 2 551 647 | 2 440 202 | 2 375 082 | 2 275 529 | 2 280 764 |
| Natural gas | million m ³ | 266 | 242 | 276 | 344 | 484 |
| Salt | | | | | | |
| Rock salt | tonnes | 46 362 | 55 305 | 10 205 | 6 100 | 512 |
| Sea salt | tonnes | 522 364 | 411 646 | 556 652 | 582 440 | 529 235 |
| Other salt | tonnes | 1 202 025 | 1 729 686 | 1 675 915 | 1 569 178 | 1 196 486 |
| Silver, mine | kilograms (metal content) | 188 000 | 124 000 | 158 000 | 122 000 | 219 000 |
| Strontium minerals | tonnes | 63 635 | *70 000 | *70 000 | *60 000 | *60 000 |
| Sulphur and pyrites | | | | | | |
| Pyrites | tonnes (sulphur content) | 26 000 | 34 000 | 28 000 | 20 000 | 55 000 |
| Recovered (a) (b) | tonnes (sulphur content) | 126 000 | 123 000 | 94 000 | 68 000 | 76 000 |
| Zinc, mine | tonnes (metal content) | 36 000 | 43 000 | 40 000 | 39 000 | 48 000 |

Note(s):-

(1) Turkey is believed to produce diatomite and wollastonite

(a) From petroleum refining and/or natural gas

(b) Other

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|--------|---------|---------|---------|---------|-----------|
| Primary aggregates | tonnes | 174 436 | 401 071 | 619 130 | 758 169 | 1 631 232 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 29 123 | 23 425 | 25 573 | 29 915 | 45 838 |
| Unwrought (a) | tonnes | 6 289 | 3 745 | 4 429 | 8 076 | 27 039 |
| Scrap | tonnes | 12 098 | 10 582 | 8 036 | 9 955 | 12 534 |

Turkey

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Antimony | | | | | | |
| Metal | tonnes | 50 | ... | 7 | 25 | 63 |
| Asbestos | tonnes | 5 | 3 | 42 000 | 0 | — |
| Barytes | tonnes | 136 916 | 117 862 | 101 716 | 142 767 | 134 333 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 106 104 | 106 712 | 153 691 | 210 328 | 211 926 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 3 275 087 | 4 546 480 | 2 898 730 | 2 359 071 | 2 893 665 |
| Portland cement | tonnes | 4 968 305 | 5 803 964 | 6 749 791 | 7 907 130 | 6 713 088 |
| Other cement | tonnes | 33 163 | 25 296 | 96 793 | 147 792 | 261 816 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 321 047 | 265 296 | 363 699 | 575 030 | 834 034 |
| Metal | tonnes | 279 | 249 | 20 | 33 | 238 |
| Coal | | | | | | |
| Anthracite | tonnes | 35 713 | 12 062 | 9 540 | 11 077 | 10 324 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 136 702 | 209 656 | 151 667 | 180 609 | 145 118 |
| Unwrought | tonnes | 20 176 | 22 324 | 18 709 | 12 846 | 13 187 |
| Scrap | tonnes | 6 855 | 9 897 | 18 492 | 4 529 | 14 977 |
| Diatomite | tonnes | 387 | 4 653 | 11 294 | 14 581 | 11 045 |
| Feldspar | tonnes | 1 208 808 | 2 162 841 | 3 027 769 | 3 971 725 | 3 001 789 |
| Gold | | | | | | |
| Metal | kilograms | 4 670 | 11 263 | 11 455 | 9 722 | 29 624 |
| Gypsum | | | | | | |
| Crude | tonnes | 9 073 | 320 | 1 282 | 7 859 | 4 346 |
| Calcined | tonnes | 151 055 | 210 898 | 308 189 | 434 910 | 477 710 |
| Iodine | kilograms | 2 307 | 2 570 | 209 | 117 | 1 250 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 109 862 | 12 895 | 1 060 | 50 165 | 9 358 |
| Ferro-chrome | tonnes | 15 446 | 61 163 | 53 695 | 16 286 | 38 738 |
| Other ferro-alloys | tonnes | 673 | 1 156 | 5 361 | 5 092 | 5 474 |
| Ingots, blooms, billets | tonnes | 2 132 421 | 2 734 188 | 3 178 909 | 3 769 934 | 2 174 257 |
| Scrap | tonnes | 28 937 | 34 512 | 48 741 | 82 460 | 64 281 |
| Kaolin | tonnes | 227 159 | 190 404 | 299 843 | 267 817 | 146 562 |
| Lead | | | | | | |
| Ores & concentrates (b) | tonnes | 11 172 | 42 390 | 18 619 | 27 179 | 24 590 |
| Unwrought | tonnes | 4 985 | 4 728 | 1 484 | 6 190 | 2 875 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 37 723 | 52 446 | 45 534 | 39 670 | 41 353 |
| Magnesia | tonnes | 190 347 | 213 384 | 196 613 | 230 675 | 198 081 |
| Manganese | | | | | | |
| Ores & concentrates | tonnes | 560 | 5 655 | ... | 12 817 | 955 |
| Mica | tonnes | 338 | 503 | 546 | 15 975 | 565 |
| Nickel | | | | | | |
| Ores & concentrates | tonnes | ... | ... | 43 600 | 3 511 | 51 703 |
| Salt | tonnes | 31 967 | 46 398 | 43 317 | 30 898 | 22 167 |
| Silver | | | | | | |
| Metal | kilograms | 75 | 303 | 947 | 2 731 | 21 449 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 2 722 | 2 530 | 1 251 | 534 | 638 |
| Sulphur, sublimed & precipitated | tonnes | 880 | 1 641 | 141 | 75 | 127 |
| Talc | tonnes | 120 | 249 | 436 | 1 963 | 2 768 |
| Titanium | | | | | | |
| Metal | tonnes | 92 | 2 | 7 | 20 | 30 |
| Vanadium | | | | | | |
| Pentoxide | tonnes | ... | ... | 680 | 900 | 940 |
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 85 661 | 100 445 | 97 605 | 110 692 | 138 288 |
| Unwrought (a) | tonnes | 2 367 | 2 579 | 315 | 302 | 227 |
| Scrap | tonnes | ... | ... | 4 293 | 2 318 | 53 |

Note(s):-

- (a) Including alloys
- (b) Complex lead-zinc ore

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-----------|-------------|------------|-------------|------------|
| Primary aggregates | tonnes | 1 325 | 2 425 | 3 660 | 4 519 | 7 785 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | 25 323 | 33 361 | 39 129 | 34 592 | 46 016 |
| Alumina | tonnes | 14 164 | 16 311 | 26 096 | 19 341 | 19 665 |
| Unwrought | tonnes | 72 786 | 109 683 | 160 378 | 182 113 | 236 076 |
| Unwrought alloys | tonnes | 52 939 | 84 829 | 114 881 | 144 836 | 146 853 |
| Scrap | tonnes | 11 090 | 9 478 | 14 850 | 11 648 | 16 723 |
| Antimony | | | | | | |
| Metal | tonnes | 20 | 98 | 141 | 87 | 40 |
| Oxide | tonnes | 209 | 314 | 294 | 460 | 377 |
| Arsenic | | | | | | |
| White arsenic | tonnes | 10 | ... | ... | ... | ... |
| Metallic arsenic | tonnes | 23 | 49 | 78 | 48 | 82 |
| Asbestos | tonnes | 10 557 | 13 977 | 14 645 | 13 509 | 12 373 |
| Barytes | tonnes | 371 | 202 | 121 | 258 | 1 983 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 1 213 | 1 715 | 1 702 | 832 | 4 127 |
| Fuller's earth | tonnes | 305 | 201 | 104 | 157 | 159 |
| Bismuth | | | | | | |
| Metal | tonnes | 3 | 4 | 4 | 6 | 7 |
| Bromine | kilograms | 91 505 | (b) 111 895 | (b) 75 080 | (b) 149 960 | 105 000 |
| Cadmium | | | | | | |
| Metal | tonnes | 9 | 14 | 12 | 6 | 2 |
| Oxide | tonnes | 28 | ... | ... | ... | ... |
| Cement | | | | | | |
| Cement clinkers | tonnes | 143 225 | 7 117 | 170 275 | 375 619 | 567 256 |
| Portland cement | tonnes | 27 109 | 19 014 | 9 922 | 9 096 | 66 260 |
| Other cement | tonnes | 5 914 | 5 800 | 3 675 | 105 | 4 693 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 101 278 | 68 832 | 82 452 | 56 836 | 89 844 |
| Metal | tonnes | 12 | 19 | 19 | 85 | 26 |
| Coal | | | | | | |
| Anthracite | tonnes | 119 373 | 213 743 | 340 165 | 397 125 | 413 333 |
| Other coal | tonnes | 6 086 397 | 13 394 458 | 15 215 711 | 16 033 118 | 16 126 628 |
| Cobalt | | | | | | |
| Metal | tonnes | 62 | 88 | 157 | 170 | 164 |
| Oxides | tonnes | 60 | 84 | 108 | 134 | 139 |
| Copper | | | | | | |
| Ores & concentrates | tonnes | 45 075 | 61 302 | 54 573 | 10 370 | 44 633 |
| Unwrought, unrefined | tonnes | 12 815 | 7 117 | 100 | 29 555 | 53 214 |
| Unwrought, refined | tonnes | 135 015 | 205 955 | 229 159 | 217 290 | 223 978 |
| Unwrought alloys | tonnes | 321 | 1 107 | 3 768 | 4 685 | 3 212 |
| Scrap | tonnes | 5 522 | 7 061 | 29 803 | 34 975 | 9 629 |
| Diamond | | | | | | |
| Gem | carats | 2 725 000 | ... | ... | 1 225 000 | 1 450 000 |
| Dust | carats | 4 725 000 | ... | ... | 15 900 000 | 26 765 000 |
| Diatomite | tonnes | 1 211 | 1 185 | 1 736 | 1 211 | 1 442 |
| Feldspar | tonnes | 19 803 | 5 269 | 26 977 | 40 733 | 40 739 |
| Fluorspar | tonnes | 16 100 | 13 790 | 18 208 | 31 908 | 30 446 |
| Gold | | | | | | |
| Metal | kilograms | 111 958 | 142 013 | 225 021 | 262 519 | 403 415 |
| Graphite | tonnes | 6 431 | 7 010 | 7 429 | 10 212 | 11 956 |
| Gypsum | tonnes | 66 472 | 90 335 | 160 214 | 170 958 | 183 553 |
| Iodine | kilograms | 39 422 | 30 450 | 15 405 | 31 736 | 18 547 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 1 726 891 | 2 879 135 | 2 144 607 | 2 070 545 | 2 095 737 |
| Burnt pyrites | tonnes | 893 595 | 2 499 655 | 3 048 337 | 2 503 319 | 2 525 709 |

Turkey

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|------------|-------------|-------------|-------------|------------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 155 350 | 324 368 | 306 901 | 286 589 | 396 658 |
| Sponge & powder | tonnes | 22 674 | 84 443 | 75 798 | 18 084 | 68 952 |
| Ferro-manganese | tonnes | 34 409 | 48 178 | 70 866 | 44 406 | 43 631 |
| Ferro-silico-manganese | tonnes | 78 749 | 157 650 | 178 594 | 189 294 | 159 496 |
| Ferro-molybdenum | tonnes | 579 | 776 | 816 | 838 | 1 253 |
| Ferro-niobium | tonnes | 90 | 167 | 189 | 211 | 433 |
| Ferro-silicon | tonnes | 44 864 | 55 575 | 126 532 | 82 543 | 57 501 |
| Other ferro-alloys | tonnes | 9 372 | 10 644 | 11 063 | 13 926 | 18 373 |
| Silicon metal | tonnes | 1 468 | 2 730 | 7 968 | 4 649 | 4 794 |
| Ingots, blooms, billets | tonnes | 1 039 166 | 896 891 | 1 618 384 | 1 531 529 | 1 816 973 |
| Scrap | tonnes | 4 993 240 | 9 749 780 | 12 818 350 | 12 892 546 | 13 010 728 |
| Kaolin | tonnes | 117 550 | 149 559 | 197 684 | 218 838 | 265 530 |
| Lead | | | | | | |
| Unwrought | tonnes | 41 970 | 64 513 | 71 665 | 71 606 | 71 680 |
| Lithium | | | | | | |
| Oxides | tonnes | 70 | 136 | 120 | 179 | 183 |
| Carbonate | tonnes | 134 | 157 | 278 | 417 | 433 |
| Magnesite and magnesia | | | | | | |
| Magnesia | tonnes | 23 373 | 50 238 | 56 000 | 38 084 | 52 432 |
| Manganese | | | | | | |
| Metal | tonnes | 34 | 182 | 137 | 495 | 300 |
| Mercury | kilograms | 10 602 | 5 358 | 8 152 | 6 044 | 1 443 |
| Mica | tonnes | 136 | 33 | 169 | 215 | 248 |
| Molybdenum | | | | | | |
| Metal | tonnes | 2 | 4 | 4 | 10 | 4 |
| Oxides | tonnes | 66 | 54 | 84 | 130 | 82 |
| Nickel | | | | | | |
| Unwrought (a) | tonnes | 1 584 | 1 919 | 2 415 | 3 353 | 3 321 |
| Oxides | tonnes | 92 | 160 | 162 | 144 | 128 |
| Crude petroleum | tonnes | 23 141 640 | 21 626 643 | 24 028 666 | 23 917 019 | 23 393 477 |
| Phosphates | tonnes | 497 120 | 746 033 | 610 286 | 291 245 | 373 134 |
| Platinum metals | | | | | | |
| Platinum & platinum metals | kilograms | 321 | 393 | 378 | 231 | 216 |
| Potash | | | | | | |
| Sulphate | tonnes | 26 753 | 31 362 | 51 467 | 59 381 | 39 198 |
| Chloride | tonnes | 82 849 | 111 780 | 107 412 | 130 748 | 135 433 |
| Rare earths | | | | | | |
| Rare earth compounds | tonnes | 104 | 155 | 201 | 171 | 155 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 1 | ... | ... | 253 | ... |
| Salt | tonnes | 12 118 | 78 204 | 202 349 | 307 039 | 320 147 |
| Sillimanite | tonnes | 3 920 | 3 386 | 3 486 | 5 110 | 5 504 |
| Silver | | | | | | |
| Metal | kilograms | 90 014 | 169 098 | 199 226 | 269 009 | 409 844 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 67 396 | 127 779 | 124 243 | 90 502 | 91 763 |
| Sulphur, sublimed & precipitated | tonnes | 73 | 2 008 | 4 899 | 138 | 110 |
| Talc | tonnes | 7 026 | 10 937 | 11 227 | 16 810 | 15 312 |
| Tin | | | | | | |
| Unwrought (a) | tonnes | 1 275 | 1 801 | 1 966 | 2 314 | 2 731 |
| Titanium | | | | | | |
| Titanium minerals | tonnes | 2 953 | 5 876 | 5 591 | 10 435 | 6 755 |
| Oxides | tonnes | 38 734 | 61 927 | 68 613 | 85 832 | 91 083 |
| Zinc | | | | | | |
| Unwrought | tonnes | (a) 84 091 | (a) 110 773 | (a) 126 315 | (a) 148 897 | 139 156 |
| Unwrought alloys | tonnes | ... | ... | ... | ... | 6 121 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 2 263 | 3 914 | 3 954 | 3 881 | 4 539 |
| Metal | tonnes | 5 | 23 | 5 | 9 | 14 |

Note(s):-

- (a) Including alloys
- (b) May include some fluorine

United Kingdom

Production

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|
| Primary aggregates | | | | | | |
| Sand and gravel | tonnes | 101 397 000 | 94 424 000 | 91 803 000 | 97 333 000 | 94 666 000 |
| Crushed rock (a) | tonnes | 153 023 000 | 144 337 000 | 140 417 000 | 147 067 000 | 141 636 000 |
| Alumina | tonnes (Al_2O_3 content) | 83 900 | 73 800 | — | — | — |
| Primary aluminium | tonnes | 340 778 | 344 318 | 342 748 | 359 631 | 368 477 |
| Barytes | tonnes | *66 000 | *59 000 | *57 000 | *61 000 | *62 000 |
| Bentonite and fuller's earth | | | | | | |
| Fuller's earth (b) | tonnes | 52 000 | 44 200 | 33 900 | 27 540 | 6 200 |
| Bromine | kilograms | 27 854 000 | 24 542 000 | *25 000 000 | — | — |
| Cadmium | tonnes | 425 | 292 | 22 | — | — |
| Cement clinker | tonnes | 10 183 000 | 10 327 000 | 10 146 000 | 10 402 000 | 10 074 000 |
| Cement, finished | tonnes | 11 090 000 | 11 089 000 | 11 215 000 | 11 405 000 | 11 216 000 |
| Coal | | | | | | |
| Bituminous (c) | tonnes | 31 930 000 | 29 989 000 | 28 279 000 | 25 096 000 | 20 498 000 |
| Feldspar (d) | tonnes | 2 995 | 1 896 | 1 309 | 2 274 | 2 000 |
| Fluorspar | tonnes | *50 000 | *53 000 | *56 000 | 50 080 | 60 980 |
| Gypsum | tonnes | *1 700 000 | *1 700 000 | *1 700 000 | 1 686 000 | *1 700 000 |
| Iron ore | tonnes | 510 | 464 | *500 | *500 | *500 |
| Pig iron | tonnes | 9 870 400 | 8 560 600 | 10 277 800 | 10 179 600 | 10 200 000 |
| Crude steel | tonnes | 13 542 700 | 11 667 100 | 13 268 000 | 13 765 700 | 13 226 000 |
| Kaolin (e) (f) | tonnes | 2 204 156 | 2 162 815 | 2 097 137 | 1 944 955 | 1 908 000 |
| Lead, mine | tonnes (metal content) | *800 | *700 | *700 | *500 | *500 |
| Lead, refined | tonnes | 366 305 | 374 646 | 364 574 | 245 938 | 305 350 |
| Nickel, smelter/refinery | tonnes | 33 800 | 33 800 | 24 200 | 38 600 | 37 100 |
| Crude petroleum | tonnes | 109 491 000 | 108 023 000 | 99 055 000 | 88 830 000 | 78 840 000 |
| Natural gas | million m ³ | 112 563 | 109 694 | 107 919 | 100 847 | 92 503 |
| Potash | | | | | | |
| Chloride | tonnes (K_2O content) | 531 900 | 540 100 | 621 400 | 539 500 | 439 200 |
| Salt | | | | | | |
| Rock salt | tonnes | *1 900 000 | *1 500 000 | *1 700 000 | *2 000 000 | *2 000 000 |
| Brine salt | tonnes | *1 100 000 | *1 000 000 | *1 000 000 | *1 000 000 | *1 000 000 |
| Salt in brine (g) | tonnes | *3 000 000 | *3 200 000 | *3 200 000 | *2 800 000 | *2 800 000 |
| Sulphur and pyrites | | | | | | |
| Recovered (h) | tonnes (sulphur content) | 62 400 | 66 400 | 4 800 | — | — |
| Recovered (i) | tonnes (sulphur content) | 111 000 | 125 000 | 115 000 | 120 000 | 124 000 |
| Talc | tonnes | 4 947 | 6 194 | 6 494 | 3 881 | 6 000 |
| Slab zinc | tonnes | 99 600 | 99 600 | 16 600 | — | — |

Note(s):-

- (1) United Kingdom is believed to produce arsenic
- (2) In addition to the countries producing sillimanite minerals, synthetic mullite is known to be produced in United Kingdom

- (a) Includes small quantities for other purposes in Northern Ireland
- (b) Saleable production based on data from producing companies
- (c) Including anthracite
- (d) China stone
- (e) Sales
- (f) Dry weight
- (g) Used for purposes other than salt-making
- (h) From metal sulphide processing
- (i) From petroleum refining and/or natural gas

Exports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|------------|-------------|-------------|-------------|
| Primary aggregates | tonnes | 13 238 740 | 12 475 405 | 11 608 077 | 12 702 493 | 13 304 920 |
| Aluminium and bauxite | | | | | | |
| Alumina | tonnes | 11 795 | 7 768 | (a) *5 000 | 5 766 | 4 336 |
| Alumina hydrate | tonnes | 42 451 | 20 170 | (a) *25 800 | (a) *35 500 | (a) *20 600 |
| Unwrought | tonnes | 16 855 | 9 403 | 1 559 | 29 949 | 48 684 |
| Unwrought alloys | tonnes | 243 780 | 241 799 | 270 701 | 306 372 | 329 691 |
| Scrap | tonnes | 204 605 | 243 894 | 295 642 | 319 217 | 474 587 |
| Antimony | | | | | | |
| Metal | tonnes | 473 | 252 | 65 | 88 | 54 |
| Oxide | tonnes | 1 297 | 1 879 | 1 413 | 663 | 621 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 5 | 5 | 0 | 0 | 1 |
| Barytes | tonnes | 58 969 | 37 778 | 69 094 | 12 873 | 16 334 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 72 983 | 81 707 | 75 099 | 71 153 | 49 514 |
| Fuller's earth | tonnes | 121 | 74 | 254 | 124 | 778 |
| Bismuth | | | | | | |
| Metal | tonnes | 1 269 | 1 793 | 2 239 | 2 633 | 2 426 |
| Bromine | kilograms | 11 304 252 | 8 671 909 | 5 307 678 | 1 126 043 | 234 977 |
| Cadmium | | | | | | |
| Metal | tonnes | 87 | 114 | 187 | 27 | 79 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 169 344 | 160 704 | 60 920 | 82 936 | 134 992 |
| Portland cement | tonnes | 229 573 | 305 801 | 216 480 | 214 420 | 320 680 |
| Other cement | tonnes | 81 441 | 66 163 | 61 193 | 76 517 | 68 554 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 170 | 26 | 212 | 622 | 228 |
| Metal | tonnes | 4 609 | 3 837 | 4 173 | 4 776 | 4 547 |
| Coal | | | | | | |
| Anthracite | tonnes | 272 985 | 187 372 | 180 382 | 172 486 | 169 252 |
| Other coal | tonnes | 309 560 | 341 626 | 352 620 | 439 930 | 380 426 |
| Lignite | tonnes | ... | ... | ... | ... | 2 321 |
| Briquettes | tonnes | 77 184 | 64 094 | 60 172 | 41 094 | 20 713 |
| Cobalt | | | | | | |
| Metal | tonnes | 1 855 | 1 120 | 1 546 | 1 882 | 1 471 |
| Oxides | tonnes | 1 256 | 1 233 | 1 380 | 1 233 | 994 |
| Copper | | | | | | |
| Ore & matte | tonnes | 11 075 | 10 724 | 2 729 | 127 | 54 |
| Unwrought | tonnes | 10 315 | 32 276 | 2 924 | 7 362 | 16 253 |
| Unwrought alloys | tonnes | 23 808 | 26 666 | 24 121 | 22 035 | 15 013 |
| Scrap | tonnes | 156 121 | 163 579 | 210 169 | 244 749 | 238 557 |
| Diamond | | | | | | |
| Unsorted | carats | 4 030 600 | ... | 9 744 443 | 6 394 541 | 16 818 545 |
| Gem, rough | carats | 69 542 709 | 86 681 020 | 104 300 972 | 78 613 304 | 76 400 064 |
| Gem, cut | carats | 899 959 | 394 881 | 828 103 | 1 592 715 | 5 330 874 |
| Industrial | carats | 11 861 312 | 7 837 074 | 12 177 638 | 22 821 714 | 21 647 850 |
| Dust | carats | 88 612 930 | ... | 75 401 755 | 149 415 960 | 124 529 495 |
| Diatomite | tonnes | 1 342 | 816 | 1 003 | 2 123 | 708 |
| Feldspar | tonnes | 93 | 209 | 801 | 261 | 48 |
| Fluorspar | tonnes | 2 373 | 636 | 519 | 4 593 | 5 803 |
| Gold | | | | | | |
| Metal | kilograms | 405 319 | 198 805 | 82 892 | 407 467 | 638 262 |
| Waste & scrap | kilograms | 493 588 | 548 843 | 1 074 829 | 471 657 | 541 399 |
| Graphite | tonnes | 2 635 | 2 816 | 4 158 | 4 348 | 2 685 |
| Gypsum | | | | | | |
| Crude | tonnes | 3 049 | 14 460 | 2 601 | 3 903 | 2 299 |
| Calcined | tonnes | 29 474 | 44 827 | 39 515 | 49 945 | 54 356 |
| Iodine | kilograms | 507 363 | 207 341 | 169 145 | 107 007 | 197 086 |

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|------------|------------|------------|------------|------------|
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 6 749 | 3 376 | 1 459 | 957 | 1 387 |
| Sponge & powder | tonnes | 3 164 | 3 134 | 3 666 | 4 003 | 3 605 |
| Ferro-chrome & ferro-silico-chrome | tonnes | 1 206 | 814 | 1 711 | 2 384 | 6 238 |
| Ferro-silico-magnesium | tonnes | ... | ... | ... | 316 | 542 |
| Ferro-manganese | tonnes | 792 | 1 874 | 434 | 1 554 | 661 |
| Ferro-silico-manganese | tonnes | 8 | 116 | 42 | 8 247 | 5 003 |
| Ferro-molybdenum | tonnes | 9 278 | 11 965 | 14 081 | 14 213 | 11 501 |
| Ferro-nickel | tonnes | 104 | 368 | 424 | 125 | 55 |
| Ferro-niobium | tonnes | 280 | 46 | 59 | 47 | 79 |
| Ferro-phosphorus | tonnes | 26 | 57 | 109 | 1 336 | 189 |
| Ferro-silicon | tonnes | 2 247 | 3 155 | 1 845 | 2 699 | 2 652 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 16 422 | 16 334 | 14 676 | 20 703 | 17 361 |
| Ferro-vanadium | tonnes | 118 | 55 | 39 | 17 | 156 |
| Other ferro-alloys | tonnes | 6 013 | 9 226 | 6 349 | 5 544 | 6 204 |
| Silicon metal | tonnes | 1 914 | 4 050 | 2 699 | 1 555 | 2 466 |
| Ingots, blooms, billets | tonnes | 746 730 | 560 796 | 1 305 976 | 1 712 102 | 2 246 377 |
| Scrap | tonnes | 4 821 840 | 5 538 569 | 7 174 934 | 6 772 111 | 6 105 955 |
| Kaolin (b) | tonnes | 1 928 230 | 1 899 220 | 1 862 437 | 1 728 161 | 1 698 747 |
| Lead | | | | | | |
| Unwrought | tonnes | 93 552 | 101 832 | 61 682 | 34 859 | 52 593 |
| Unwrought alloys | tonnes | 42 308 | 57 249 | 44 091 | 31 148 | 38 806 |
| Scrap | tonnes | 10 700 | 17 116 | 28 569 | 32 934 | 27 248 |
| Lithium | | | | | | |
| Oxides | tonnes | 95 | 186 | 169 | 285 | 125 |
| Carbonate | tonnes | 214 | 147 | 193 | 160 | 203 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 78 | 337 | 34 | 49 | 87 |
| Magnesia | tonnes | 40 023 | 26 460 | 26 248 | 24 796 | 20 077 |
| Manganese | | | | | | |
| Metal (a) | tonnes | *6 000 | *4 300 | *5 500 | *3 100 | *3 000 |
| Mercury | kilograms | 17 299 | 6 226 | 851 | 2 054 | 191 193 |
| Mica | | | | | | |
| Unmanufactured | tonnes | 22 | 20 | 34 | — | 20 |
| Ground | tonnes | 3 758 | 4 023 | 4 740 | 9 354 | 4 030 |
| Waste | tonnes | 17 | 46 | 0 | 23 | 0 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 297 | 418 | 84 | 180 | 179 |
| Metal | tonnes | 1 046 | 326 | 230 | 312 | 807 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 136 | 128 | 200 | 964 | 196 |
| Unwrought | tonnes | 21 670 | 19 775 | 19 200 | 38 249 | 38 524 |
| Unwrought alloys | tonnes | 5 955 | 4 257 | 4 899 | 4 710 | 6 141 |
| Scrap | tonnes | 7 736 | 7 912 | 7 861 | 10 465 | 14 119 |
| Crude petroleum | tonnes | 82 057 946 | 79 943 787 | 69 617 507 | 60 743 679 | 50 619 044 |
| Phosphates | tonnes | 317 | 386 | 111 | 34 | 1 548 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 31 859 | 69 955 | 37 874 | 44 598 | 41 500 |
| Palladium | kilograms | 22 845 | 19 176 | 27 669 | 61 198 | 51 807 |
| Other platinum metals | kilograms | 5 604 | 6 002 | 9 631 | 12 610 | 17 852 |
| Waste & scrap | kilograms | 1 124 414 | 914 126 | 1 862 845 | 2 681 379 | 2 881 226 |
| Potash | | | | | | |
| Chloride | tonnes | *530 000 | *440 000 | *630 000 | *512 000 | *353 000 |
| Other potassic fertilisers | tonnes | 1 141 | 740 | 609 | 662 | 705 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 415 | 88 | 118 | 47 | 121 |
| Other rare earth compounds | tonnes | 329 | 1 128 | 1 105 | 1 157 | 1 189 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 9 | 19 | 768 | 197 | 2 |
| Metals | tonnes | 51 | 148 | 16 | 10 | 26 |
| Salt | tonnes | 299 607 | 326 760 | 537 497 | 691 895 | 538 796 |
| Sillimanite | tonnes | 6 895 | 4 554 | 3 238 | 2 016 | 2 417 |
| Silver | | | | | | |
| Metal | kilograms | 2 282 355 | 1 497 995 | 3 429 247 | 1 754 885 | 2 289 098 |
| Sulphur and pyrites | | | | | | |
| Sulphur | tonnes | 1 563 | 580 | 476 | 700 | 431 |
| Sulphur, sublimed & precipitated | tonnes | 386 | 657 | 836 | 1 387 | 1 458 |

United Kingdom

Exports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|--------|---------|---------|---------|---------|---------|
| Talc | tonnes | 4 034 | 3 833 | 3 325 | 3 317 | 5 244 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 395 | 280 | 278 | 77 | 131 |
| Tin | | | | | | |
| Concentrates | tonnes | 59 | 24 | 29 | 0 | 2 |
| Unwrought | tonnes | 426 | 381 | 283 | 524 | 1 608 |
| Unwrought alloys | tonnes | 2 485 | 2 165 | 2 152 | 885 | 442 |
| Scrap | tonnes | 2 256 | 2 821 | 4 499 | 7 353 | 20 603 |
| Titanium | | | | | | |
| Metal | tonnes | 13 597 | 11 511 | 10 084 | 11 913 | 17 212 |
| Oxides | tonnes | 207 483 | 238 884 | 242 541 | 234 591 | 215 741 |
| Tungsten | | | | | | |
| Metal | tonnes | 1 874 | 1 667 | 2 053 | 1 267 | 1 732 |
| Carbide | tonnes | 20 | 5 | 70 | 92 | 83 |
| Vanadium | | | | | | |
| Metal | tonnes | 1 405 | 1 425 | 1 137 | 1 075 | 433 |
| Zinc | | | | | | |
| Unwrought | tonnes | 15 455 | 15 686 | 3 106 | 1 581 | 1 661 |
| Unwrought alloys | tonnes | 21 971 | 22 366 | 21 770 | 26 260 | 38 267 |
| Scrap | tonnes | 19 157 | 15 248 | 15 436 | 9 710 | 9 881 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 1 776 | 5 033 | 418 | 505 | 699 |
| Metal | tonnes | 380 | 263 | 244 | 183 | 127 |

Note(s):-

- (a) BGS estimates, based on known imports into certain countries
- (b) Dry weight

Imports

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|-------------|-------------|--------------|-----------|-----------|
| Primary aggregates | tonnes | 771 250 | 986 963 | 1 494 230 | 1 543 380 | 2 160 513 |
| Aluminium and bauxite | | | | | | |
| Bauxite | tonnes | (b) 271 404 | ... | ... | 122 021 | 103 522 |
| Alumina | tonnes | 713 808 | (c) 798 479 | (a) *828 300 | 748 933 | 755 443 |
| Alumina hydrate | tonnes | 63 687 | ... | (a) *143 000 | 124 451 | 130 321 |
| Unwrought | tonnes | 135 094 | 212 046 | 163 573 | 116 545 | 114 189 |
| Unwrought alloys | tonnes | 211 245 | 159 310 | 129 451 | 118 398 | 87 063 |
| Scrap | tonnes | 112 240 | 117 954 | 105 061 | 78 309 | 116 285 |
| Antimony | | | | | | |
| Metal | tonnes | 345 | 183 | 290 | 410 | 60 |
| Oxide | tonnes | 4 103 | 3 164 | 2 712 | 2 976 | 2 048 |
| Arsenic | | | | | | |
| Metallic arsenic | tonnes | 87 | 86 | 155 | 165 | 3 |
| Asbestos | tonnes | 347 | 118 | 3 | 2 150 | — |
| Barytes | tonnes | 77 273 | 74 935 | 56 867 | 63 934 | 54 753 |
| Bentonite and fuller's earth | | | | | | |
| Bentonite | tonnes | 235 517 | 216 022 | 198 434 | 187 750 | 151 179 |
| Sepiolite | tonnes | (d) 65 062 | (d) 69 691 | (d) 55 483 | 51 044 | 65 565 |
| Fuller's earth | tonnes | 5 896 | 9 115 | 7 085 | 2 574 | 3 122 |
| Bismuth | | | | | | |
| Metal | tonnes | 1 515 | 1 513 | 2 237 | 2 205 | 2 858 |
| Bromine | kilograms | 5 387 458 | 2 879 558 | 1 899 231 | 7 145 977 | 7 994 939 |
| Cadmium | | | | | | |
| Metal | tonnes | 942 | 225 | 416 | 479 | 206 |
| Cement | | | | | | |
| Cement clinkers | tonnes | 387 306 | 289 685 | 506 128 | 377 341 | 406 044 |
| Portland cement | tonnes | 1 179 521 | 2 142 589 | 1 714 946 | 2 033 772 | 1 645 088 |
| Other cement | tonnes | 52 411 | 61 327 | 61 131 | 64 289 | 37 705 |
| Chromium | | | | | | |
| Ores & concentrates | tonnes | 135 369 | 139 748 | 107 161 | 130 841 | 122 042 |
| Metal | tonnes | 1 601 | 1 171 | 1 612 | 2 321 | 1 723 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|-----------|------------|-------------|-------------|-------------|-------------|
| Coal | | | | | | |
| Anthracite | tonnes | 2 757 188 | 1 550 849 | 334 883 | 197 788 | 187 388 |
| Other coal | tonnes | 32 772 976 | 27 110 435 | 31 538 546 | 35 958 449 | 43 890 778 |
| Briquettes | tonnes | 11 317 | 17 127 | 7 638 | 8 498 | 6 554 |
| Cobalt | | | | | | |
| Metal | tonnes | 4 187 | 4 036 | 3 356 | 3 862 | 3 888 |
| Oxides | tonnes | 641 | 487 | 582 | 525 | 107 |
| Copper | | | | | | |
| Unwrought, unrefined | tonnes | 290 | 89 | 14 | 122 | 1 978 |
| Unwrought, refined | tonnes | 310 894 | 316 578 | 245 152 | 214 067 | 181 767 |
| Unwrought alloys | tonnes | 7 249 | 5 480 | 6 160 | 8 070 | 6 191 |
| Scrap | tonnes | 19 651 | 19 240 | 17 378 | 15 731 | 42 264 |
| Diamond | | | | | | |
| Unsorted | carats | 586 774 | 1 794 607 | 5 210 022 | 10 557 063 | 33 441 810 |
| Gem, rough | carats | 81 302 570 | 70 336 037 | 77 712 486 | 68 227 020 | 78 735 595 |
| Gem, cut | carats | 4 396 223 | 5 123 898 | 4 520 872 | 9 317 146 | 12 039 040 |
| Industrial | carats | 7 344 542 | 7 804 225 | 21 518 053 | 30 993 560 | 25 367 064 |
| Dust | carats | 74 756 325 | 68 359 660 | 92 290 565 | 126 277 015 | 125 510 400 |
| Diatomite | tonnes | 33 474 | 34 490 | 37 217 | 34 988 | 29 208 |
| Feldspar | tonnes | 18 361 | 33 196 | 25 764 | 31 601 | 23 139 |
| Fluorspar | tonnes | 34 999 | 26 690 | 21 360 | 25 092 | 4 051 |
| Gold | | | | | | |
| Metal | kilograms | 972 188 | 1 280 970 | 1 414 697 | 1 053 100 | 460 239 |
| Waste & scrap | kilograms | 167 513 | 122 639 | 231 365 | 274 919 | 66 198 |
| Graphite | tonnes | 22 435 | 22 435 | 19 270 | 19 075 | 17 766 |
| Gypsum | | | | | | |
| Crude | tonnes | 755 112 | (e) 646 889 | (e) 903 068 | (e) 227 068 | (e) 761 117 |
| Calcined | tonnes | 31 481 | ... | ... | ... | ... |
| Iodine | kilograms | 1 015 061 | 744 234 | 825 813 | 802 782 | 1 092 633 |
| Iron ore | | | | | | |
| Iron ore | tonnes | 15 351 877 | 13 316 026 | 16 121 350 | 15 298 713 | 16 204 615 |
| Burnt pyrites | tonnes | 17 130 | ... | 19 230 | 2 436 | 1 911 |
| Iron, steel and ferro-alloys | | | | | | |
| Pig iron | tonnes | 159 725 | 124 682 | 116 724 | 105 007 | 102 531 |
| Sponge & powder | tonnes | 23 551 | 23 673 | 21 503 | 21 059 | 21 914 |
| Ferro-chrome | tonnes | 98 994 | 112 898 | 68 405 | 112 234 | 63 478 |
| Ferro-silico-chrome | tonnes | 5 136 | 2 309 | 63 | — | 728 |
| Ferro-silico-magnesium | tonnes | 5 318 | 5 820 | 5 663 | 4 969 | 5 448 |
| Ferro-manganese | tonnes | 73 507 | 86 681 | 76 686 | 91 533 | 79 045 |
| Ferro-silico-manganese | tonnes | 53 747 | 64 565 | 53 421 | 63 633 | 57 136 |
| Ferro-molybdenum | tonnes | 351 | 338 | 434 | 836 | 861 |
| Ferro-nickel | tonnes | 7 166 | 11 010 | 16 437 | 14 628 | 11 325 |
| Ferro-niobium | tonnes | 1 261 | 1 029 | 1 148 | 1 236 | 1 175 |
| Ferro-phosphorus | tonnes | 2 163 | 1 503 | 2 124 | 1 687 | 3 261 |
| Ferro-silicon | tonnes | 72 663 | 76 046 | 75 469 | 71 973 | 58 225 |
| Ferro-titanium & Fe-Si-Ti | tonnes | 2 465 | 2 729 | 2 042 | 2 457 | 1 883 |
| Ferro-tungsten & Fe-Si-W | tonnes | 96 | 32 | 60 | 10 | 36 |
| Ferro-vanadium | tonnes | 727 | 748 | 1 071 | 1 262 | 609 |
| Other ferro-alloys | tonnes | 4 073 | 4 258 | 2 195 | 2 275 | 2 427 |
| Silicon metal | tonnes | 86 026 | 80 766 | 100 472 | 100 233 | 77 103 |
| Ingots, blooms, billets | tonnes | 388 350 | 1 453 884 | 540 537 | 758 615 | 722 452 |
| Scrap | tonnes | 178 923 | 113 107 | 139 089 | 225 483 | 180 261 |
| Kaolin | tonnes | 102 839 | 58 993 | 72 719 | 126 501 | 84 750 |
| Lead | | | | | | |
| Ores & concentrates (f) | tonnes | *33 000 | *30 000 | *5 000 | — | — |
| Unwrought, base bullion (g) | tonnes | 184 518 | 184 060 | 168 228 | 127 970 | 173 910 |
| Unwrought, other | tonnes | 33 202 | 32 468 | 28 132 | 51 382 | 31 347 |
| Scrap | tonnes | 15 633 | 4 946 | 6 043 | 6 278 | 3 898 |
| Lithium | | | | | | |
| Oxides | tonnes | 374 | 409 | 554 | 498 | 446 |
| Carbonate | tonnes | 499 | 626 | 687 | 490 | 657 |
| Magnesite and magnesia | | | | | | |
| Magnesite | tonnes | 7 122 | 9 252 | 20 287 | 11 187 | 13 896 |
| Magnesia | tonnes | 108 988 | 98 075 | 82 100 | 83 539 | 78 843 |

United Kingdom

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|--------------|------------|------------|------------|------------|
| Manganese | | | | | | |
| Ores & concentrates (h) | tonnes | 2 701 | 1 218 | 2 102 | 2 585 | 698 |
| Metal | tonnes | 9 636 | 7 600 | 8 250 | 9 189 | 8 223 |
| Mercury | kilograms | 5 042 | 23 302 | 29 673 | 27 875 | 32 306 |
| Mica | | | | | | |
| Unmanufactured | tonnes | 344 | 240 | 424 | 1 769 | 296 |
| Ground | tonnes | 7 258 | 9 349 | 8 327 | 6 286 | 6 684 |
| Waste | tonnes | 4 016 | 4 224 | 5 050 | 4 374 | 4 485 |
| Molybdenum | | | | | | |
| Ores & concentrates | tonnes | 16 373 | 21 437 | 18 884 | 18 371 | 18 600 |
| Metal | tonnes | 1 165 | 1 220 | 1 169 | 1 854 | 2 877 |
| Oxides | tonnes | 60 | 106 | 7 | 2 | 630 |
| Nickel | | | | | | |
| Mattes, sinters etc. | tonnes | 51 963 | 52 514 | 43 968 | 64 192 | 57 492 |
| Unwrought | tonnes | 47 030 | 46 610 | 34 162 | 45 264 | 24 019 |
| Unwrought alloys | tonnes | 2 788 | 1 868 | 31 491 | 2 238 | 1 629 |
| Scrap | tonnes | 14 963 | 25 270 | 20 038 | 8 957 | 10 927 |
| Oxides | tonnes | 145 | 130 | 47 | 103 | 277 |
| Crude petroleum | tonnes | 38 542 685 | 40 838 161 | 44 511 352 | 56 128 686 | 54 067 943 |
| Phosphates | tonnes | 9 223 | 10 275 | 1 242 | 11 586 | 30 177 |
| Platinum metals | | | | | | |
| Platinum | kilograms | 17 825 | 12 030 | 13 827 | 47 735 | 51 553 |
| Palladium | kilograms | 19 724 | 22 072 | 48 106 | 24 666 | 30 576 |
| Other platinum metals | kilograms | 5 602 | 4 772 | 8 636 | 8 267 | 7 134 |
| Waste & scrap | kilograms | 729 250 | 775 673 | 367 327 | 617 417 | 1 271 315 |
| Potash | | | | | | |
| Fertiliser salts | tonnes | 16 154 | 19 366 | 12 751 | 9 204 | 9 517 |
| Chloride | tonnes | 335 398 | 372 031 | 246 164 | 207 056 | 198 893 |
| Other potassic fertilisers | tonnes | 14 506 | 8 804 | 5 439 | 12 383 | 13 151 |
| Rare earths | | | | | | |
| Cerium compounds | tonnes | 2 227 | 3 070 | 2 519 | 1 914 | 2 324 |
| Other rare earth compounds | tonnes | 403 | 491 | 471 | 775 | 775 |
| Ferro-cerium & other pyrophoric alloys | tonnes | 1 | 34 | 1 | 9 | 19 |
| Metals | tonnes | 172 | 64 | 115 | 135 | 166 |
| Salt | tonnes | (a) *235 000 | 306 488 | 217 009 | 219 581 | 287 623 |
| Sillimanite | | | | | | |
| Sillimanite | tonnes | 28 470 | 18 588 | 22 649 | 24 348 | 39 650 |
| Mullite | tonnes | 5 174 | 10 006 | 8 656 | 12 392 | 10 430 |
| Silver | | | | | | |
| Metal | kilograms | 3 471 871 | 3 780 907 | 2 484 101 | 2 105 057 | 1 485 290 |
| Sulphur and pyrites | | | | | | |
| Sulphur, crude | tonnes | (i) 170 055 | (i) 87 260 | 23 469 | 44 963 | 24 222 |
| Sulphur, refined | tonnes | ... | ... | 5 560 | 3 984 | 7 263 |
| Sulphur, sublimed & precipitated | tonnes | 390 | 355 | 544 | 675 | 577 |
| Talc | tonnes | 66 737 | 66 119 | 59 172 | 66 722 | 65 496 |
| Tantalum and niobium | | | | | | |
| Tantalum | tonnes | 1 610 | 3 480 | 842 | 243 | 97 |
| Tin | | | | | | |
| Unwrought | tonnes | 6 857 | 7 151 | 7 488 | 5 861 | 4 812 |
| Unwrought alloys | tonnes | 2 442 | 1 437 | 2 378 | 1 145 | 2 067 |
| Scrap | tonnes | 179 | 188 | 168 | 215 | 468 |
| Titanium | | | | | | |
| Ilmenite | tonnes | 112 447 | 106 177 | 113 852 | 110 596 | 80 435 |
| Other titanium minerals | tonnes | 110 526 | 82 303 | 111 754 | 113 852 | 109 238 |
| Titanium slag | tonnes | 110 697 | 157 020 | 44 890 | 151 | 64 849 |
| Metal | tonnes | 30 752 | 25 319 | 25 126 | 27 401 | 27 938 |
| Oxides | tonnes | 82 852 | 95 583 | 74 138 | 74 787 | 67 102 |
| Tungsten | | | | | | |
| Metal | tonnes | 2 538 | 2 121 | 1 932 | 1 903 | 3 204 |
| Carbide | tonnes | 1 381 | 759 | 1 232 | 838 | 974 |
| Vanadium | | | | | | |
| Pentoxide | tonnes | 319 | 962 | 363 | 306 | 339 |
| Metal | tonnes | 381 | 171 | 256 | 338 | 812 |

Imports continued

| Commodity | Units | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|---------|---------|---------|---------|---------|
| Zinc | | | | | | |
| Ores & concentrates | tonnes | 215 342 | 229 042 | 16 611 | 260 | 903 |
| Unwrought | tonnes | 110 157 | 108 357 | 171 219 | 139 477 | 135 840 |
| Unwrought alloys | tonnes | 6 363 | 5 738 | 13 796 | 15 960 | 16 128 |
| Scrap | tonnes | 3 219 | 261 | 172 | 228 | 188 |
| Zirconium | | | | | | |
| Concentrates | tonnes | 46 548 | 30 656 | 39 285 | 32 917 | 19 519 |
| Metal | tonnes | 693 | 394 | 346 | 444 | 338 |

Note(s):-

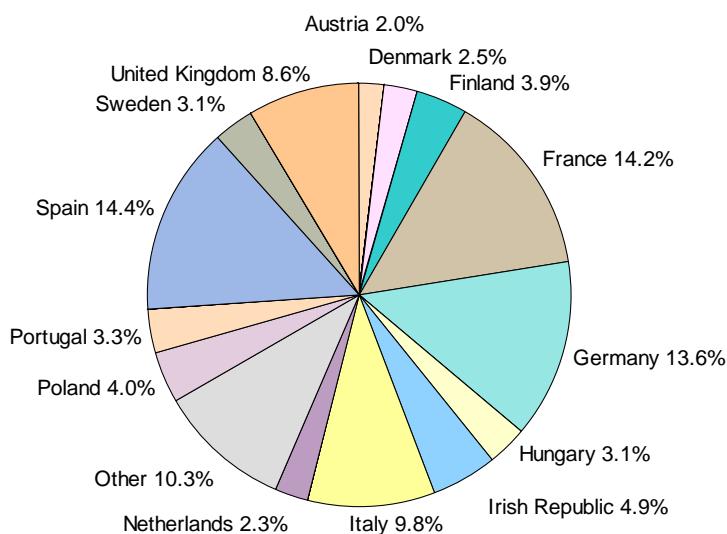
- (a) BGS estimates, based on known exports from certain countries
- (b) Excluding refractory grade bauxite
- (c) Including some bauxite
- (d) Exports from Spain
- (e) Including calcined
- (f) Pb content
- (g) Includes a substantial precious metal content, mainly silver
- (h) Including manganiferous Iron ore
- (i) Including refined

STATISTICAL TABLES BY COMMODITY

Primary aggregates

- Primary aggregates are sand and gravel and crushed rock aggregates that are widely used in the construction industry. The trade data presented here are for crushed rock combined with sand and gravel.
- Aggregates data are very difficult to establish with satisfactory precision. There are frequent inconsistencies in the way countries report aggregates production and trade. Different definitions for similar materials are commonplace, and many countries do not require production to be reported from quarries that have less than a certain number of employees.
- Aggregates are primarily used in concrete for building, construction and civil engineering, for road surfaces (when bound with bitumen or concrete) and railway/road-base ballast.
- Spain was the largest EU31 producer of primary aggregates in 2005, with 395 million tonnes (14%). Norway and the UK were the largest net exporters. Germany was the largest exporter, in gross terms, but was also, with the Netherlands and Belgium-Luxembourg, a major importer. Total imports and exports of the EU31 are closely balanced from year to year and the considerable total trade (215 million tonnes) is almost entirely within the EU31 area.

EU31 Production of aggregates 2005



Production of primary aggregates (sand and gravel and crushed rock)

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|------------|------------|------------|------------|------------|
| Austria | | | | | |
| Sand and gravel (a) | 23 102 333 | 28 758 261 | 27 287 331 | 29 395 685 | 29 082 502 |
| Crushed rock (a) | 22 404 109 | 22 438 122 | 26 333 481 | 27 687 041 | 25 204 014 |
| Belgium | | | | | |
| Sand and gravel (b) (c) | 11 064 638 | 10 449 346 | 9 245 757 | 8 787 817 | 8 330 239 |
| Crushed rock (b) (d) | 39 270 358 | 39 772 457 | 36 772 879 | 38 562 546 | 40 388 027 |
| Bulgaria | | | | | |
| Sand and gravel | *3 500 000 | *3 500 000 | 3 710 186 | 3 333 000 | ... |
| Cyprus | | | | | |
| Crushed rock | 9 300 000 | 10 500 000 | 10 700 000 | 11 600 000 | 12 064 112 |
| Czech Republic | | | | | |
| Sand and gravel | 11 916 192 | 12 248 595 | 15 267 650 | 15 703 358 | 15 672 765 |
| Crushed rock | 20 301 407 | 23 643 644 | 27 934 515 | 28 846 776 | 30 221 600 |
| Denmark | | | | | |
| Sand and gravel | 55 200 000 | 53 300 000 | 50 800 000 | 57 300 000 | 69 500 000 |
| Crushed rock | 330 000 | 390 000 | 380 000 | 372 000 | 378 000 |
| Estonia | | | | | |
| Sand and gravel | 2 300 000 | 1 650 400 | 1 973 740 | 2 341 620 | 3 459 760 |
| Crushed rock | 1 800 000 | 4 571 100 | 4 082 700 | 5 426 600 | 6 760 700 |
| Finland | | | | | |
| Sand and gravel | 53 000 000 | 51 000 000 | 55 000 000 | 55 000 000 | 63 000 000 |
| Crushed rock | 38 000 000 | 39 000 000 | 40 000 000 | 43 000 000 | 44 000 000 |

Production continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------------|---------------|---------------|---------------|---------------|
| France | | | | | |
| Sand and gravel | 175 150 000 | 167 970 000 | 165 470 000 | 168 080 000 | 168 640 000 |
| Crushed rock | 221 600 000 | 215 290 000 | 217 400 000 | 223 170 000 | 219 480 000 |
| Germany | | | | | |
| Sand and gravel | 312 700 000 | 292 100 000 | 285 500 000 | 267 300 000 | 252 000 000 |
| Crushed rock | 136 788 000 | 130 693 000 | 124 047 000 | 119 627 000 | 122 244 000 |
| Hungary | | | | | |
| Sand and gravel | 32 252 000 | 35 407 000 | 40 530 145 | 46 354 829 | 69 027 609 |
| Crushed rock | 8 621 080 | 9 792 782 | 10 090 547 | 13 037 471 | 15 078 440 |
| Irish Republic | | | | | |
| Sand and gravel | 33 000 000 | 34 000 000 | 40 000 000 | *40 000 000 | *40 000 000 |
| Crushed rock | 77 000 000 | 78 000 000 | 60 000 000 | *60 000 000 | *94 000 000 |
| Italy | | | | | |
| Sand and gravel | 215 622 251 | 200 776 836 | 212 169 204 | 176 252 243 | 206 149 140 |
| Crushed rock | 51 224 533 | 46 512 344 | 44 562 447 | 54 195 444 | 61 639 848 |
| Latvia | | | | | |
| Sand and gravel | 2 283 102 | 2 534 837 | 3 584 055 | 3 194 361 | 2 344 138 |
| Lithuania | | | | | |
| Sand and gravel | 4 018 341 | 5 770 428 | 4 793 670 | 5 835 729 | 7 034 402 |
| Crushed rock | 1 576 587 | 2 145 727 | 2 896 045 | 3 683 266 | 4 757 023 |
| Netherlands | | | | | |
| Sand and gravel | 113 917 000 | 81 490 000 | 74 200 000 | 66 200 000 | 63 579 000 |
| Norway | | | | | |
| Sand and gravel | 15 000 000 | 14 000 000 | 15 000 000 | 15 000 000 | 15 000 000 |
| Crushed rock | 36 000 000 | 36 000 000 | 36 000 000 | 37 000 000 | 38 000 000 |
| Poland | | | | | |
| Sand and gravel (f) | 60 039 000 | 60 186 000 | 71 376 000 | *60 000 000 | *77 000 000 |
| Crushed rock | 25 593 000 | 25 875 000 | 26 404 000 | 29 271 189 | 33 098 450 |
| Portugal | | | | | |
| Sand and gravel | 9 852 769 | 7 514 159 | 6 483 435 | ... | ... |
| Crushed rock | 61 453 129 | 86 055 000 | 83 462 955 | ... | ... |
| Romania | | | | | |
| Sand and gravel | 1 075 191 | 1 568 994 | 1 013 386 | 1 458 266 | 1 394 414 |
| Slovakia | | | | | |
| Sand and gravel | 2 033 600 | 2 238 400 | 2 627 200 | 3 174 400 | 6 807 116 |
| Crushed rock | 8 067 600 | 8 847 900 | 9 212 400 | 9 717 300 | 12 575 266 |
| Slovenia | | | | | |
| Sand and gravel | 12 546 000 | 11 661 000 | 11 277 000 | 11 012 000 | 11 466 000 |
| Crushed rock | 12 200 746 | 13 049 675 | 15 040 340 | 13 719 888 | 12 176 491 |
| Spain | | | | | |
| Sand and gravel | 85 000 000 | 97 857 003 | 118 746 034 | 113 947 729 | 115 000 000 |
| Crushed rock | 200 000 000 | 237 379 504 | 254 100 000 | 273 555 490 | 280 000 000 |
| Sweden | | | | | |
| Sand and gravel | 25 549 623 | 24 537 500 | 21 650 322 | 22 647 111 | 21 755 752 |
| Crushed rock | 45 992 625 | 46 771 631 | 49 326 880 | 54 737 031 | 62 313 089 |
| Switzerland | | | | | |
| Sand and gravel | ... | ... | ... | 26 000 000 | 46 500 000 |
| Crushed rock | ... | ... | ... | 3 000 000 | 5 300 000 |
| United Kingdom | | | | | |
| Sand and gravel | 101 397 000 | 94 424 000 | 91 803 000 | 97 333 000 | 94 666 000 |
| Crushed rock (e) | 153 023 000 | 144 337 000 | 140 417 000 | 147 067 000 | 141 636 000 |
| EU31 Total | 2 561 000 000 | 2 545 000 000 | 2 578 000 000 | 2 583 000 000 | 2 742 000 000 |

Note(s):-
(See over)

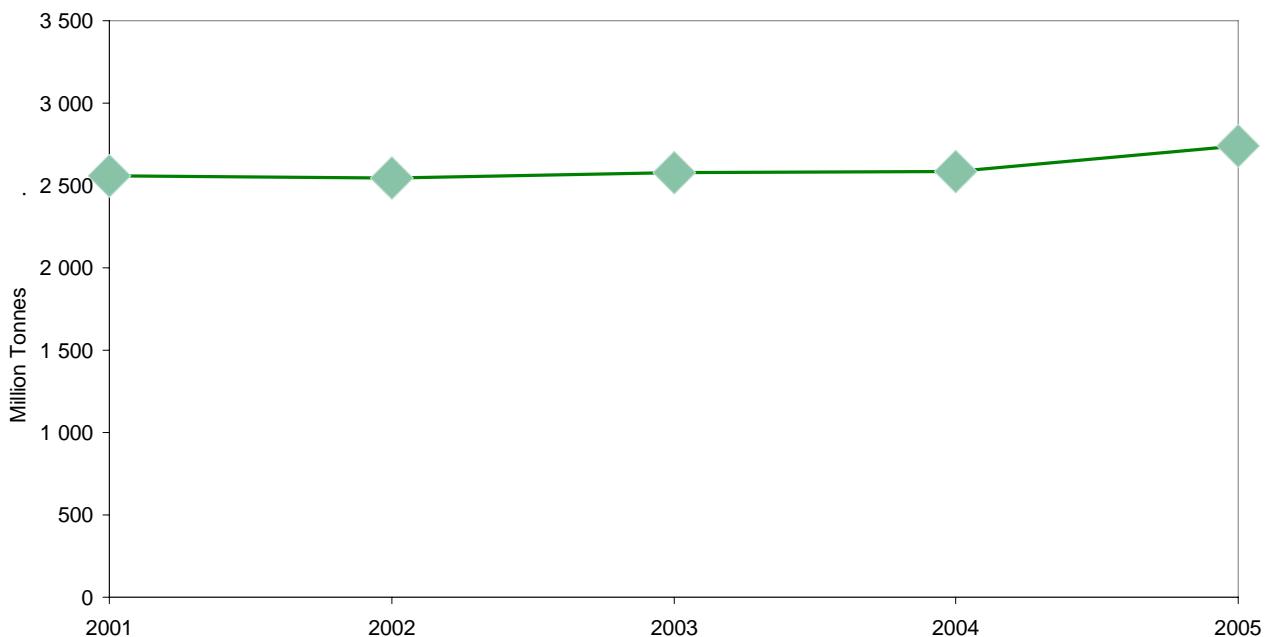
Aggregates

Production continued

Note(s):-

- (1) So far as possible, these statistics include construction sands; gravel, pebbles, shingle, and flint; crushed stone used for concrete aggregates, roadstone and other contruction use; granules, chippings and powders, listed under Prodcom codes 14211190, 14211210, 14211230, 14211250, 14211290
- (2) Where official sources show more than one series for aggregates the higher series has generally been used in this compilation
- (3) Where marine sands and gravels have been identified, these are included
- (4) Information may be incomplete or absent due to reporting methods, confidentiality or lack of available information. All EU31 countries produce sand and gravel and crushed rock
- (5) Production from many small operations are not officially compiled. The minimum number of employees for which establishments are required to report production varies between different countries and can also vary from year to year within a country
- (6) Quantities of sand from sand and gravel operations may be discarded due to low demand. This may or may not be included in the statistics
 - (a) Sales
 - (b) Deliveries
 - (c) Includes silica sand
 - (d) Includes gravel, slag and tarred macadam
 - (e) Includes small quantities for other purposes in Northern Ireland
 - (f) Includes an estimate for small producers

EU31 Production of aggregates 2001 - 05



Exports of primary aggregates (sand and gravel and crushed rock)

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|-----------------|-----------------|
| Austria | 2 323 043 | 2 581 242 | 3 163 141 | 2 829 930 | 2 745 393 |
| Belgium-Luxembourg | 15 784 851 | 15 340 439 | 13 562 764 | 13 208 283 | 14 573 270 |
| Bulgaria | 123 942 | 227 464 | 214 135 | 384 420 | 160 032 |
| Czech Republic | 555 449 | 417 503 | 464 898 | 344 850 | 468 540 |
| Denmark | 1 112 789 | 880 032 | 736 820 | 795 330 | 787 389 |
| Estonia | 282 172 | 376 987 | 469 343 | 487 863 | 522 792 |
| Finland | 581 353 | 879 966 | 446 404 | 422 709 | 580 815 |
| France | 12 547 219 | 11 154 637 | 10 116 439 | 9 389 763 | 8 492 936 |
| Germany | 21 152 142 | 19 748 571 | 19 811 898 | 21 817 271 | 21 698 651 |
| Greece | 33 971 | 18 672 | 12 670 | 108 042 | 43 306 |
| Hungary | 590 064 | 743 157 | 598 056 | 729 270 | 736 586 |
| Irish Republic | 380 067 | 703 054 | 563 286 | 135 579 | 62 729 |
| Italy | 1 443 143 | 1 638 314 | 1 333 675 | 1 556 414 | 1 734 620 |
| Latvia | 173 112 | 118 698 | 12 108 | 10 278 | 13 178 |
| Lithuania | 258 802 | 255 405 | 228 171 | 460 569 | 957 488 |
| Netherlands | 11 540 000 | 12 743 000 | 12 427 000 | (a) *14 300 000 | (a) *14 100 000 |
| Norway | 10 846 009 | 12 751 398 | 12 300 157 | 12 561 778 | 13 334 212 |
| Poland | 867 725 | 435 628 | 393 090 | 790 734 | 1 237 482 |
| Portugal | 54 077 | 31 516 | 31 257 | 53 451 | 138 939 |
| Romania | 1 953 | 18 927 | 35 924 | 23 073 | 63 110 |
| Slovakia | 573 398 | 570 446 | 328 547 | (a) *542 000 | (a) *758 000 |
| Slovenia | 77 693 | 92 618 | 137 354 | 166 176 | 221 830 |
| Spain | 1 641 676 | 1 724 911 | 1 647 138 | 1 694 285 | 1 546 315 |
| Sweden | 2 206 841 | 2 132 194 | 2 067 542 | 2 213 385 | 2 447 200 |
| Switzerland | 118 787 | 229 451 | 184 678 | 296 911 | 283 508 |
| Turkey | 174 436 | 401 071 | 619 130 | 758 169 | 1 631 232 |
| United Kingdom | 13 238 740 | 12 475 405 | 11 608 077 | 12 702 493 | 13 304 920 |

Note(s):-

(1) The figures in this table include construction sands, pebbles, gravel, shingle, flint, crushed rock, granules, chippings and powders covered by the Harmonised System codes 2505.90, 2517.10, 2517.41, 2517.49

(2) Includes marine dredged sand and gravel landed at foreign ports

(a) BGS estimates, based on known imports into certain countries

Imports of primary aggregates (sand and gravel and crushed rock)

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Austria | 2 293 185 | 2 545 866 | 2 446 023 | 2 087 667 | 2 516 839 |
| Belgium-Luxembourg | 23 173 017 | 17 771 910 | 19 492 423 | 20 219 032 | 20 831 220 |
| Bulgaria | 13 069 | 17 160 | 24 578 | 20 303 | 17 200 |
| Cyprus | 3 104 | 1 870 | 3 201 | (a) *8 400 | 5 921 |
| Czech Republic | 261 199 | 237 868 | 206 018 | 509 217 | 574 008 |
| Denmark | 2 124 031 | 2 299 752 | 2 632 665 | 2 949 549 | 2 804 325 |
| Estonia | 380 156 | 669 205 | 464 516 | 456 144 | 739 618 |
| Finland | 44 785 | 29 163 | 47 702 | 75 016 | 43 488 |
| France | 9 295 683 | 9 666 340 | 8 239 025 | 9 431 953 | 10 264 292 |
| Germany | 15 006 699 | 13 306 857 | 11 870 353 | 11 127 947 | 11 563 984 |
| Greece | 29 123 | 105 277 | 324 882 | 199 144 | 22 026 |
| Hungary | 57 443 | 241 929 | 104 705 | 254 800 | 446 504 |
| Irish Republic | 989 926 | 1 121 763 | 1 036 886 | 1 269 673 | 1 444 893 |
| Italy | 4 014 635 | 3 324 865 | 3 368 905 | 4 102 477 | 4 331 596 |
| Latvia | 543 479 | 623 854 | 676 383 | 629 613 | 1 320 287 |
| Lithuania | 964 300 | 1 096 672 | 993 051 | 1 069 921 | 1 289 117 |
| Netherlands | 36 200 000 | 44 000 000 | 45 300 000 | 37 100 000 | 40 800 000 |
| Norway | 91 192 | 66 824 | 71 837 | 85 471 | 67 562 |
| Poland | 1 428 456 | 1 252 285 | 1 527 892 | 1 756 513 | 1 775 291 |
| Portugal | 750 486 | 867 165 | 641 696 | 790 615 | 698 717 |
| Romania | 123 702 | 218 348 | 213 091 | 370 184 | 197 911 |
| Slovakia | 194 367 | 188 874 | 208 515 | 294 267 | 682 608 |
| Slovenia | 491 305 | 447 327 | 541 189 | 532 614 | 364 091 |
| Spain | 1 088 430 | 1 073 979 | 1 156 484 | 1 190 670 | 1 305 835 |

Aggregates

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Sweden | 417 298 | 838 286 | 615 470 | 729 992 | 810 385 |
| Switzerland | 6 307 738 | 6 554 457 | 6 134 548 | 6 413 474 | 6 261 007 |
| Turkey | 1 325 | 2 425 | 3 660 | 4 519 | 7 785 |
| United Kingdom (b) | 771 250 | 986 963 | 1 494 230 | 1 543 380 | 2 160 513 |

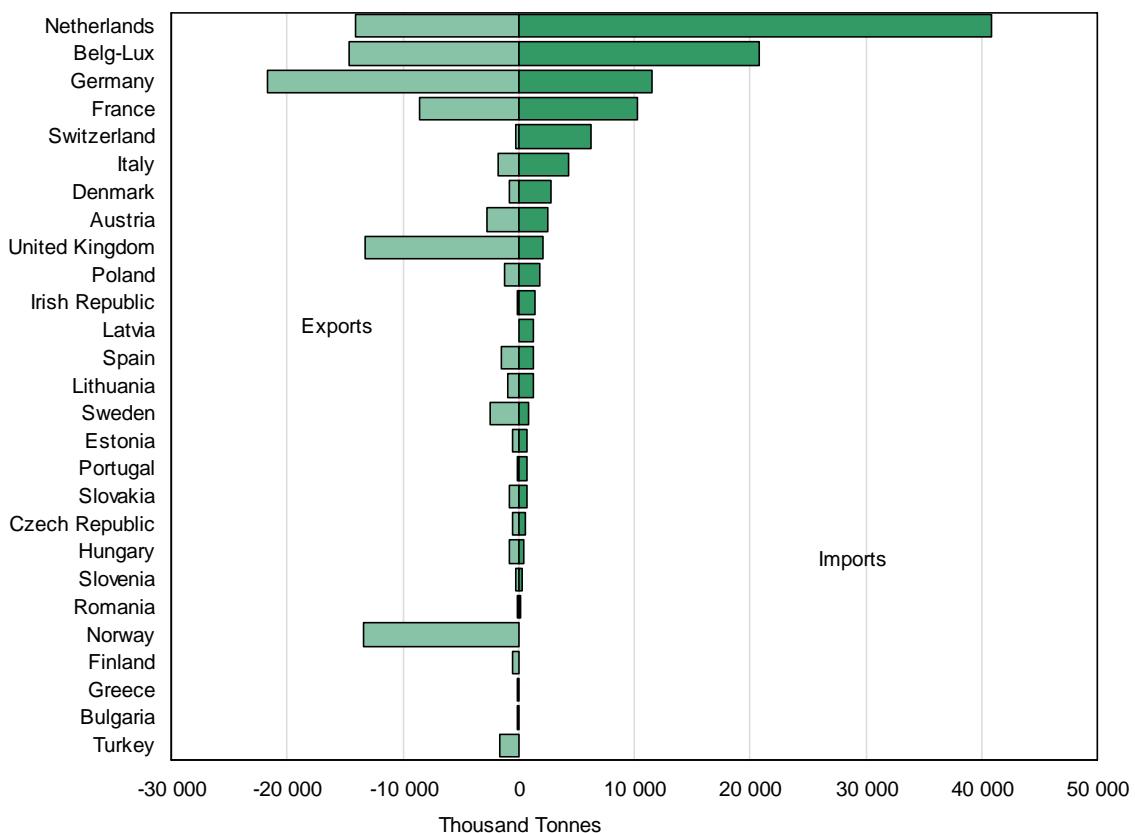
Note(s) :-

(1) The figures in this table include construction sands, pebbles, gravel, shingle, flint, crushed rock, granules, chippings and powders covered by the Harmonised System codes 2505.90, 2517.10, 2517.41, 2517.49

(a) BGS estimates, based on known exports from certain countries

(b) For a number of years, a significant amount of crushed rock imports, are believed to have been wrongly classified as 'granite unworked'. In 2005, BGS estimate that aggregate imports should be approximately 3 400 000 tones

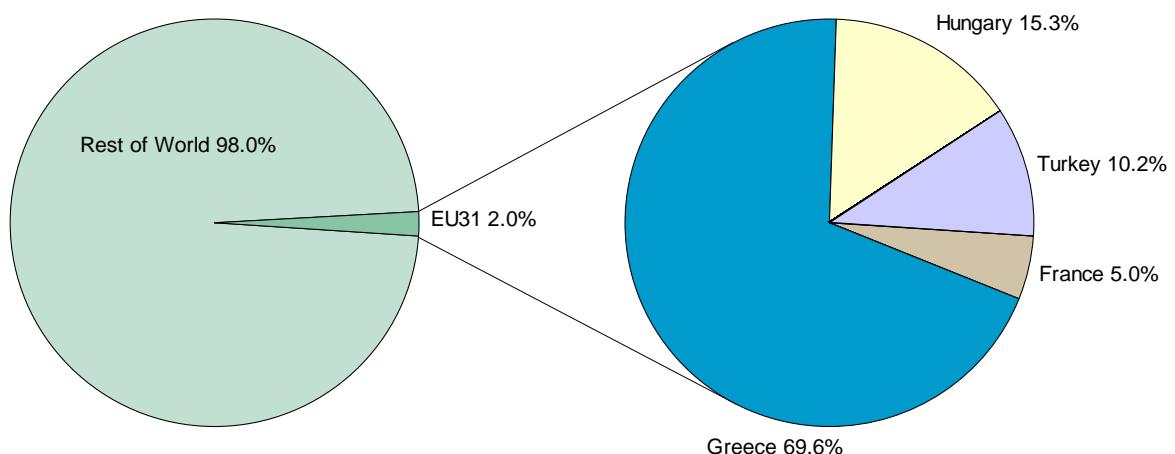
Aggregates – EU31 trade in 2005



Bauxite

- Bauxite is the only significant ore of aluminium and is generated by deep chemical weathering of rocks in tropical to sub-tropical climates. There is limited EU31 production, leaving a very strong dependence on imports from countries outside the EU31.
- The chief use of bauxite is as a raw material for the production of alumina (aluminium oxide) the majority of which is converted to aluminium metal by electrolysis.
- Australia was the world's largest producer in 2005. Greece was the largest producer within the EU31, with 70% of total EU31 production. Guyanan bauxite, (refractory grade CIF Rotterdam) traded between \$205-\$210/tonne during 2005.

EU31 Production of bauxite 2005



Production of bauxite

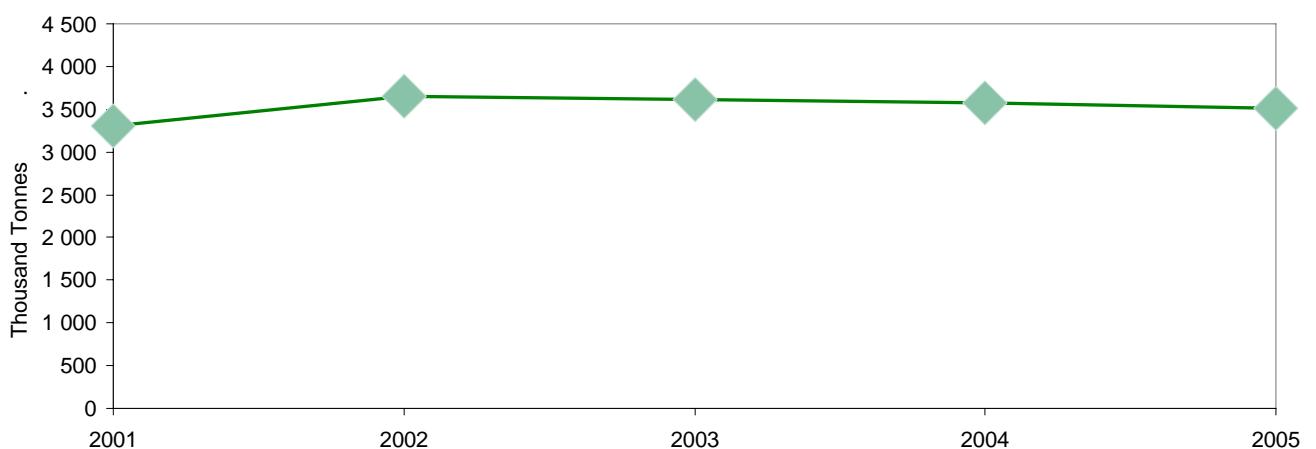
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|-----------|-----------|-----------|-----------|-----------|
| France | 153 000 | 150 000 | 170 000 | 170 000 | 175 000 |
| Greece | 1 903 280 | 2 492 000 | 2 418 000 | 2 396 065 | 2 441 443 |
| Hungary | 1 000 044 | 720 000 | 665 904 | 646 726 | 535 337 |
| Turkey | 242 040 | 287 403 | 364 306 | 365 836 | 356 480 |
| EU31 Total | 3 298 000 | 3 649 000 | 3 618 000 | 3 579 000 | 3 508 000 |

Note(s):-

(1) This table includes production of refractory bauxite

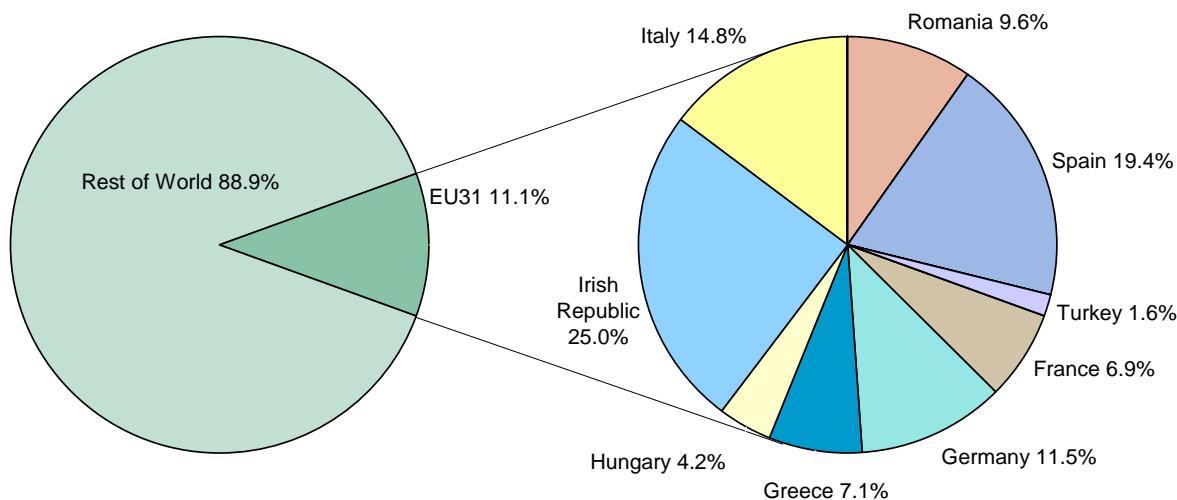
EU31 Production of bauxite 2001 - 05



Alumina

- Alumina (aluminium oxide) is an intermediate product in the manufacture of aluminium metal from raw bauxite ore. Alumina hydrate is a form of alumina containing combined water and used in the paper, petroleum, paint and other industries.
- Australia was the world's largest producer in 2005. The EU31 produced 7.2 million tonnes, representing 11% of world production.
- Market or spot prices for alumina fluctuated in 2005 as a result of limited supply and strong Chinese demand. Metallurgical-grade alumina traded between \$390-\$420/tonne at the beginning of 2005. The price increased in March to \$440-\$460/tonne before declining to \$400-\$420 in June. Prices began to rise again reaching \$580-\$590 in December.

EU31 Production of alumina 2005



Production of alumina

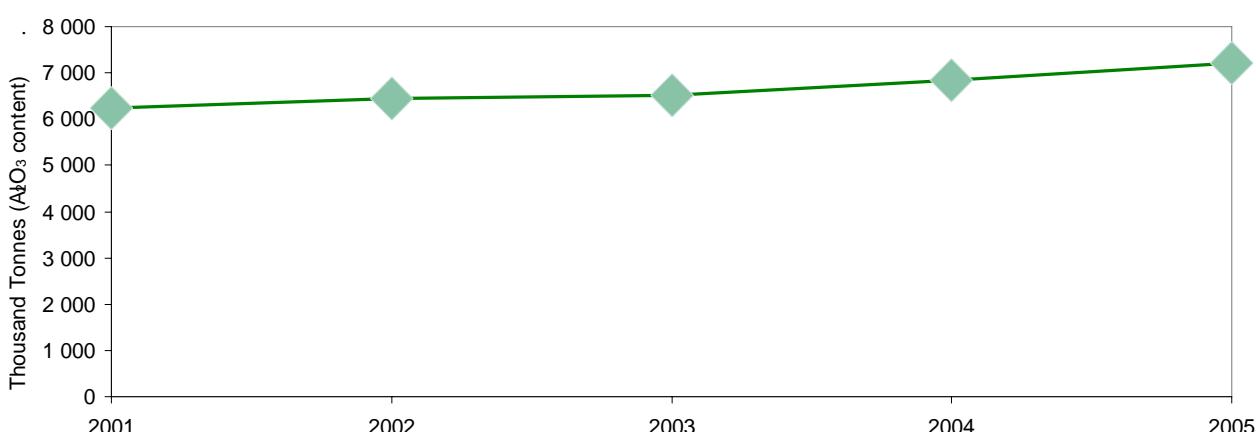
tonnes (Al_2O_3 content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|------------|------------|
| France | *510 000 | *500 000 | *500 000 | *500 000 | *500 000 |
| Germany | *750 000 | *825 000 | *830 000 | *835 000 | *830 000 |
| Greece | 463 000 | 490 000 | 496 000 | 514 000 | 511 000 |
| Hungary | 330 000 | 293 700 | 300 000 | 304 000 | *300 000 |
| Irish Republic | 1 448 730 | 1 400 000 | 1 500 000 | *1 500 000 | *1 800 000 |
| Italy | 993 000 | 1 010 000 | 1 021 000 | 1 064 000 | 1 070 000 |
| Romania | 319 403 | 361 047 | 332 853 | 560 243 | 688 829 |
| Spain | 1 199 000 | 1 350 000 | 1 380 000 | *1 400 000 | *1 400 000 |
| Turkey | 145 993 | 152 869 | 160 675 | 169 991 | 112 558 |
| United Kingdom | 83 900 | 73 800 | — | — | — |
| EU31 Total | 6 243 000 | 6 456 000 | 6 521 000 | 6 847 000 | 7 212 000 |

Note(s):-

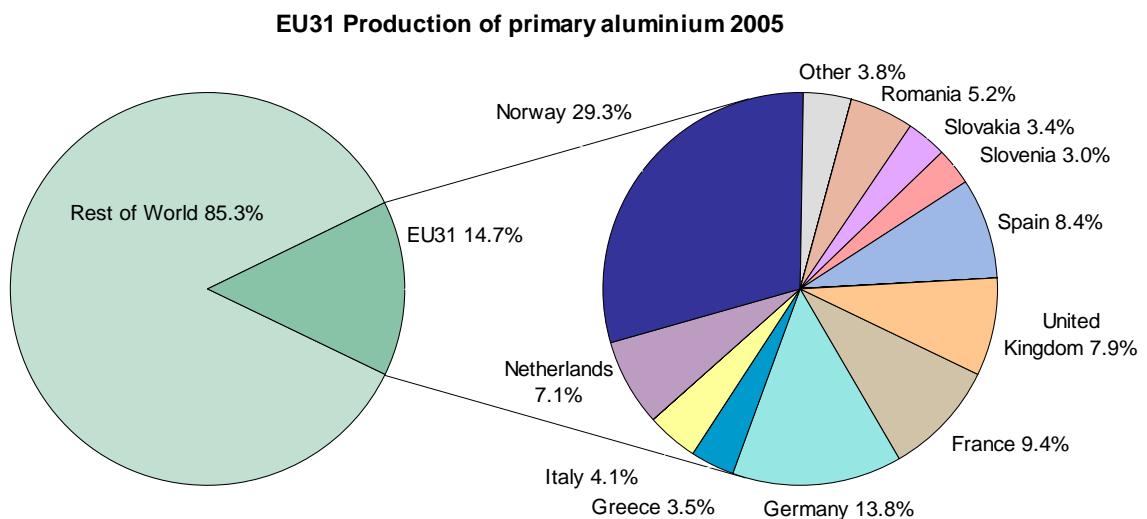
(1) Where possible, figures in this table show the alumina equivalent (Al_2O_3) of total hydrate produced, whether or not calcined

EU31 Production of alumina 2001 - 05



Aluminium metal

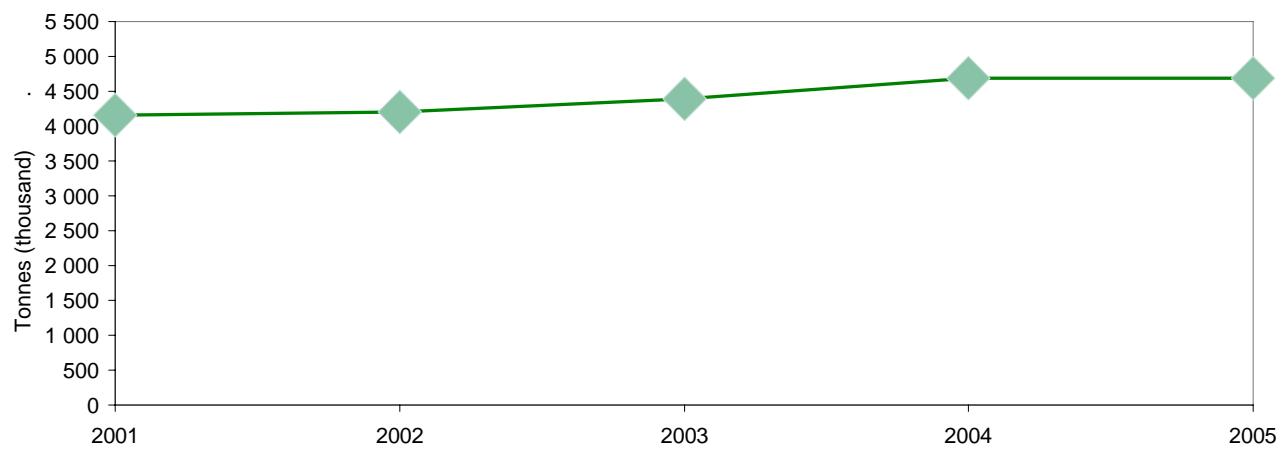
- Aluminium is a strong, lightweight metallic element that has many applications. The chief uses are in transportation, packaging, and construction.
- China was the world's largest producer in 2005, with 25% of world production. The EU31 produced 4.7 million tonnes, representing 15% of world production. Norway was the largest EU31 producer.
- The LME daily official spot price for aluminum metal, high grade min. 99.7%, averaged \$1898/tonne during 2005.



Production of primary aluminium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| France | 461 000 | 463 000 | 444 000 | 447 000 | 440 000 |
| Germany | 651 592 | 652 845 | 660 783 | 667 800 | 647 900 |
| Greece | 164 000 | 165 262 | 167 797 | 166 634 | 165 300 |
| Hungary | 34 600 | 35 294 | 34 000 | 34 300 | 31 000 |
| Italy | 187 500 | 190 400 | 191 400 | 195 400 | 192 900 |
| Netherlands | 293 068 | 284 364 | 282 800 | 330 000 | 333 800 |
| Norway | 1 034 000 | 1 044 000 | 1 180 200 | 1 318 000 | 1 376 000 |
| Poland | 52 600 | 52 200 | 52 600 | 54 200 | 53 600 |
| Romania | 181 830 | 187 052 | 196 844 | 222 347 | 243 605 |
| Slovakia | 110 062 | 111 600 | 132 089 | 156 893 | 158 400 |
| Slovenia | 76 632 | 87 600 | 109 800 | 120 700 | 138 500 |
| Spain | 376 400 | 380 100 | 389 100 | 397 500 | 395 000 |
| Sweden | 101 420 | 100 125 | 100 707 | 100 591 | 102 107 |
| Switzerland | 36 288 | 40 224 | 43 865 | 44 879 | 44 800 |
| Turkey | 61 730 | 62 501 | 63 140 | 64 002 | — |
| United Kingdom | 340 778 | 344 318 | 342 748 | 359 631 | 368 477 |
| EU31 Total | 4 164 000 | 4 201 000 | 4 392 000 | 4 680 000 | 4 691 000 |

EU31 Production of primary aluminium 2001 - 05**Exports of bauxite, alumina and aluminium**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Unwrought | 12 071 | 14 271 | 16 150 | 13 341 | 6 616 |
| Unwrought alloys | 89 985 | 94 594 | 87 528 | 122 693 | 125 796 |
| Scrap | 55 565 | 57 505 | 52 564 | 71 362 | 67 434 |
| Belgium-Luxembourg | | | | | |
| Bauxite | 63 483 | 73 550 | 98 961 | 54 734 | 46 717 |
| Alumina | 3 608 | 8 955 | 7 058 | ... | 10 714 |
| Unwrought | 142 931 | 234 880 | 157 800 | 266 682 | 267 811 |
| Unwrought alloys | 41 445 | 52 402 | 40 919 | 42 010 | 38 889 |
| Scrap | 161 980 | 151 468 | 133 871 | 137 374 | 149 914 |
| Bulgaria | | | | | |
| Unwrought alloys | 627 | 2 152 | 1 971 | 4 616 | 5 254 |
| Scrap | 18 352 | 22 994 | 21 838 | 22 036 | 21 902 |
| Croatia | | | | | |
| Bauxite | 5 981 | 3 869 | 1 478 | 566 | 276 |
| Scrap | 8 311 | 10 187 | 10 914 | 12 024 | 15 927 |
| Cyprus | | | | | |
| Unwrought | 6 236 | 1 028 | 381 | 316 | 62 |
| Scrap | 5 003 | 2 813 | 2 966 | 3 699 | 4 578 |
| Czech Republic | | | | | |
| Unwrought (a) | 38 362 | 34 611 | 43 045 | 48 698 | 48 885 |
| Scrap | 30 520 | 33 636 | 33 410 | 43 223 | 39 297 |
| Denmark | | | | | |
| Alumina | 3 481 | 4 520 | 4 556 | ... | 3 579 |
| Unwrought alloys | 26 092 | 23 363 | 17 538 | 14 019 | 23 509 |
| Scrap | 48 753 | 45 342 | 36 738 | 55 407 | 70 828 |
| Estonia | | | | | |
| Unwrought (a) | 3 744 | 6 095 | 11 986 | 5 479 | 2 414 |
| Scrap | 9 994 | 9 108 | 9 712 | 8 062 | 10 686 |
| Finland | | | | | |
| Unwrought alloys | 33 670 | 23 529 | 18 557 | 17 254 | 14 107 |
| Scrap | 7 913 | 15 189 | 16 720 | 22 946 | 21 053 |
| France | | | | | |
| Bauxite | 4 157 | 14 013 | 253 | 2 985 | 5 195 |
| Alumina | 166 329 | 167 309 | 188 951 | 232 762 | 255 392 |
| Alumina hydrate | 117 496 | 103 258 | 125 437 | 144 331 | 139 694 |
| Unwrought | 78 306 | 81 601 | 63 659 | 70 010 | 77 097 |
| Unwrought alloys | 72 663 | 75 069 | 75 318 | 78 047 | 95 700 |
| Scrap | 248 291 | 274 551 | 257 279 | 299 226 | 314 243 |
| Germany | | | | | |
| Bauxite | 35 894 | 42 524 | 26 666 | 30 647 | 28 087 |
| Alumina | 167 226 | 201 103 | 308 210 | 294 034 | 204 075 |
| Alumina hydrate | 537 767 | 488 918 | 472 091 | 528 700 | 527 900 |
| Unwrought | 71 793 | 59 597 | 48 570 | 58 365 | 60 757 |
| Unwrought alloys | 294 918 | 327 962 | 340 772 | 354 998 | 330 843 |
| Scrap | 557 252 | 499 791 | 556 405 | 544 522 | 583 987 |

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|-----------|-----------|-----------|-----------|-----------|
| Greece | | | | | |
| Bauxite | 567 470 | 535 074 | 701 911 | 925 282 | 1 136 505 |
| Alumina | 279 120 | 327 476 | 358 955 | 404 852 | 439 374 |
| Alumina hydrate | 34 493 | 12 261 | 11 568 | 3 760 | 2 944 |
| Unwrought | 6 368 | 56 730 | 58 714 | 61 846 | 60 964 |
| Unwrought alloys | 9 457 | 6 142 | 8 880 | 8 597 | 15 017 |
| Scrap | 9 444 | 12 794 | 10 731 | 13 777 | 15 205 |
| Hungary | | | | | |
| Alumina | 258 945 | 241 441 | 216 200 | 250 978 | 218 696 |
| Unwrought (a) | 10 894 | 11 730 | 16 231 | 25 475 | 22 635 |
| Scrap | 29 656 | 24 428 | 27 022 | 38 684 | 41 192 |
| Irish Republic | | | | | |
| Alumina | 1 891 293 | 1 564 481 | 2 405 797 | 1 388 723 | 1 459 036 |
| Alumina hydrate | 20 746 | 22 656 | 51 149 | 44 645 | 85 062 |
| Unwrought alloys | 3 287 | 4 389 | 4 569 | 3 776 | 3 542 |
| Scrap | 14 470 | 19 240 | 12 307 | 15 367 | 16 475 |
| Italy | | | | | |
| Bauxite | 69 646 | 49 307 | 9 291 | 40 512 | 121 029 |
| Alumina | 646 064 | 721 558 | 682 587 | 606 416 | 651 704 |
| Alumina hydrate | 29 901 | 35 623 | 34 820 | 24 895 | 26 652 |
| Unwrought | 2 639 | 5 986 | 3 385 | 4 203 | 8 742 |
| Unwrought alloys | 28 817 | 35 982 | 31 082 | 43 578 | 57 573 |
| Scrap | 19 416 | 17 707 | 20 358 | 26 630 | 35 904 |
| Latvia | | | | | |
| Unwrought (a) | 26 973 | 37 243 | 34 081 | 39 368 | 34 697 |
| Scrap | 2 389 | 1 477 | 747 | 748 | 910 |
| Lithuania | | | | | |
| Unwrought (a) | 4 767 | 4 083 | 5 222 | 3 943 | 3 922 |
| Scrap | 22 873 | 24 276 | 15 140 | 11 953 | 7 210 |
| Netherlands | | | | | |
| Bauxite | 76 216 | 35 719 | 58 848 | 96 740 | 93 993 |
| Alumina | 144 613 | 125 292 | 51 228 | 267 947 | 264 116 |
| Alumina hydrate | 24 904 | 37 548 | 48 026 | 42 398 | 48 643 |
| Unwrought | 169 741 | 356 282 | 408 302 | 314 462 | 304 993 |
| Unwrought alloys | 300 275 | 225 385 | 227 283 | 320 583 | 304 675 |
| Scrap | 153 947 | 186 791 | 187 522 | 234 761 | 265 755 |
| Norway | | | | | |
| Unwrought | 156 506 | 135 792 | 150 101 | 150 479 | 147 295 |
| Unwrought alloys | 1 031 140 | 992 055 | 1 212 372 | 1 333 251 | 1 365 929 |
| Scrap | 37 376 | 40 797 | 37 566 | 39 742 | 38 218 |
| Poland | | | | | |
| Unwrought (a) | 30 519 | 32 349 | 52 132 | 70 740 | 81 962 |
| Scrap | 62 915 | 65 404 | 63 022 | 71 525 | 82 875 |
| Portugal | | | | | |
| Unwrought alloys | 96 207 | 84 709 | 111 732 | 105 837 | 140 505 |
| Scrap | 19 266 | 24 671 | 19 513 | 28 576 | 41 797 |
| Romania | | | | | |
| Alumina | 196 600 | 5 128 | 155 094 | 209 950 | 261 862 |
| Unwrought (a) | 73 320 | 88 022 | 35 094 | 79 508 | 39 254 |
| Scrap | 6 577 | 6 963 | 5 787 | 4 703 | 4 829 |
| Slovakia | | | | | |
| Unwrought | 1 345 | 2 225 | 3 098 | 6 827 | 15 302 |
| Unwrought alloys | 146 730 | 156 343 | 169 698 | 183 346 | 159 134 |
| Scrap | 4 744 | 5 417 | 5 722 | 7 594 | 8 042 |
| Slovenia | | | | | |
| Alumina | 10 452 | 11 760 | 18 072 | 24 277 | 205 606 |
| Unwrought alloys | 70 705 | 77 362 | 101 446 | 124 069 | 123 555 |
| Scrap | 9 522 | 12 329 | 11 619 | 14 971 | 21 103 |
| Spain | | | | | |
| Alumina | 292 210 | 179 478 | 369 353 | 491 808 | 561 125 |
| Alumina hydrate | 231 485 | 11 685 | 214 263 | 241 910 | 264 829 |
| Unwrought | 5 191 | 2 429 | 915 | 1 024 | 3 002 |
| Unwrought alloys | 86 974 | 68 484 | 87 356 | 102 146 | 111 992 |
| Scrap | 30 251 | 37 236 | 41 646 | 35 021 | 36 688 |

Aluminium and Bauxite

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|---------|---------|-------------|-------------|-------------|
| Sweden | | | | | |
| Alumina | 1 453 | 1 506 | 1 939 | 6 160 | 14 133 |
| Unwrought | 3 183 | 2 529 | 101 | 22 096 | 9 390 |
| Unwrought alloys | 62 986 | 78 675 | 75 903 | 105 752 | 88 311 |
| Scrap | 63 869 | 70 721 | 109 170 | 79 433 | 69 166 |
| Switzerland | | | | | |
| Unwrought (a) | 5 536 | 7 139 | 775 | 8 180 | 14 499 |
| Scrap | 100 096 | 96 217 | 96 860 | 108 536 | 122 729 |
| Turkey | | | | | |
| Alumina | 29 123 | 23 425 | 25 573 | 29 915 | 45 838 |
| Unwrought (a) | 6 289 | 3 745 | 4 429 | 8 076 | 27 039 |
| Scrap | 12 098 | 10 582 | 8 036 | 9 955 | 12 534 |
| United Kingdom | | | | | |
| Alumina | 11 795 | 7 768 | (b) *5 000 | 5 766 | 4 336 |
| Alumina hydrate | 42 451 | 20 170 | (b) *25 800 | (b) *35 500 | (b) *20 600 |
| Unwrought | 16 855 | 9 403 | 1 559 | 29 949 | 48 684 |
| Unwrought alloys | 243 780 | 241 799 | 270 701 | 306 372 | 329 691 |
| Scrap | 204 605 | 243 894 | 295 642 | 319 217 | 474 587 |

Note(s):-

- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
- (2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars etc.
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) Including alloys

(b) BGS estimates, based on known imports into certain countries

Imports of bauxite, alumina and aluminium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------------|--------------|--------------|---------|---------|
| Austria | | | | | |
| Bauxite | 25 581 | 21 354 | 31 082 | 36 791 | 36 123 |
| Alumina | 43 134 | 41 141 | 43 318 | 23 636 | 41 269 |
| Alumina hydrate | 5 937 | 6 538 | 7 779 | 6 372 | 10 125 |
| Unwrought | 160 372 | 136 767 | 141 841 | 106 348 | 82 597 |
| Unwrought alloys | 139 329 | 170 541 | 184 478 | 229 607 | 214 611 |
| Scrap | (c) *123 900 | (c) *129 700 | (c) *143 400 | 128 798 | 150 412 |
| Belgium-Luxembourg | | | | | |
| Bauxite | 112 399 | 106 310 | 102 691 | 82 208 | 87 376 |
| Alumina | 8 785 | 9 983 | 11 350 | 12 942 | 10 879 |
| Alumina hydrate | 35 659 | 43 902 | 43 941 | 33 798 | 37 831 |
| Unwrought | 448 703 | 473 246 | 382 266 | 513 835 | 497 013 |
| Unwrought alloys | 151 061 | 196 413 | 217 309 | 235 761 | 265 937 |
| Scrap | 185 465 | 157 885 | 146 723 | 157 812 | 158 799 |
| Bulgaria | | | | | |
| Unwrought (a) | 19 069 | 22 890 | 28 194 | 35 515 | 40 748 |
| Croatia | | | | | |
| Bauxite | 76 243 | 42 464 | 71 335 | 48 302 | 112 007 |
| Unwrought | (a) 32 087 | 32 229 | 21 289 | 47 437 | 56 509 |
| Unwrought alloys | ... | 8 326 | 7 329 | 9 672 | 14 915 |
| Cyprus | | | | | |
| Unwrought alloys | 6 749 | 7 629 | 7 697 | 10 858 | 9 898 |
| Czech Republic | | | | | |
| Bauxite | 15 212 | 15 391 | 13 871 | 20 922 | 24 315 |
| Alumina | 24 771 | 22 117 | 23 142 | 26 898 | 28 458 |
| Alumina hydrate | 9 960 | 11 981 | 12 767 | 17 215 | 10 898 |
| Unwrought | 43 792 | 64 108 | 66 747 | 75 289 | 69 977 |
| Unwrought alloys | 76 779 | 78 849 | 82 823 | 90 688 | 96 702 |
| Scrap | 26 013 | 23 986 | 24 336 | 28 542 | 34 226 |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|-----------|-----------|-----------|-----------|-----------|
| Denmark | | | | | |
| Bauxite | 20 077 | 6 140 | 11 297 | 13 801 | 9 148 |
| Alumina | 18 897 | 20 228 | 17 896 | 23 666 | 21 979 |
| Unwrought (a) | 48 723 | 61 538 | 65 386 | 75 233 | 70 617 |
| Scrap | 163 573 | 52 460 | 41 373 | 39 949 | 63 678 |
| Estonia | | | | | |
| Alumina | 1 757 | 270 | 854 | 1 586 | 182 |
| Unwrought (a) | 6 047 | 6 086 | 10 428 | 5 859 | 1 686 |
| Finland | | | | | |
| Bauxite | 3 544 | 3 790 | 6 027 | 4 782 | 3 661 |
| Alumina | 2 204 | 2 042 | 1 904 | 2 220 | 2 659 |
| Alumina hydrate | 41 950 | 44 570 | 24 958 | 37 361 | 28 300 |
| Unwrought | 21 586 | 13 704 | 3 534 | 3 295 | 4 057 |
| Unwrought alloys | 28 948 | 24 253 | 33 174 | 37 999 | 40 510 |
| Scrap | 29 829 | 30 310 | 23 445 | 18 901 | 15 537 |
| France | | | | | |
| Bauxite | 1 667 959 | 1 347 713 | 1 786 905 | 1 507 504 | 1 799 671 |
| Alumina | 785 981 | 670 046 | 704 393 | 644 513 | 655 246 |
| Alumina hydrate | 46 522 | 43 727 | 44 743 | 41 187 | 41 682 |
| Unwrought | 182 477 | 148 344 | 165 490 | 144 053 | 150 798 |
| Unwrought alloys | 324 411 | 325 980 | 324 997 | 369 795 | 366 369 |
| Scrap | 145 422 | 133 794 | 149 876 | 143 833 | 135 611 |
| Germany | | | | | |
| Bauxite | 1 965 709 | 1 950 542 | 1 907 966 | 2 119 259 | 2 435 244 |
| Alumina | 777 003 | 867 297 | 1 047 728 | 1 107 265 | 999 798 |
| Alumina hydrate | 480 679 | 378 146 | 225 998 | 204 721 | 231 124 |
| Unwrought | 625 469 | 721 430 | 796 479 | 628 038 | 648 764 |
| Unwrought alloys | 976 513 | 945 177 | 1 099 136 | 1 170 875 | 1 121 715 |
| Scrap | 419 586 | 483 052 | 462 320 | 462 580 | 438 066 |
| Greece | | | | | |
| Bauxite | 252 246 | 246 155 | 375 275 | 247 358 | 206 870 |
| Alumina | 3 711 | 952 | 889 | 905 | 1 049 |
| Unwrought | 78 683 | 79 463 | 98 093 | 116 074 | 121 266 |
| Unwrought alloys | 44 151 | 39 444 | 46 193 | 51 522 | 68 958 |
| Scrap | 19 148 | 17 329 | 15 127 | 16 631 | 18 083 |
| Hungary | | | | | |
| Bauxite | 88 950 | 116 037 | 164 930 | 189 528 | 279 660 |
| Alumina | 2 609 | 3 188 | 17 819 | 8 751 | 15 638 |
| Unwrought | 175 645 | 199 392 | 199 978 | 337 995 | 109 382 |
| Unwrought alloys | 27 701 | 25 328 | 27 925 | 32 021 | 54 362 |
| Scrap | 7 016 | 17 071 | 16 764 | 13 111 | 17 164 |
| Irish Republic | | | | | |
| Bauxite | 3 493 883 | 3 732 789 | 3 418 940 | 3 740 006 | 3 606 983 |
| Alumina | 7 768 | 7 544 | 6 718 | 6 626 | 4 252 |
| Unwrought (a) | 11 474 | 6 750 | 6 503 | 6 603 | 4 092 |
| Scrap | 695 | 503 | 294 | 490 | 117 |
| Italy | | | | | |
| Bauxite | 2 324 849 | 2 256 065 | 2 169 206 | 2 407 108 | 2 602 224 |
| Alumina | 126 284 | 126 299 | 123 514 | 142 931 | 147 537 |
| Alumina hydrate | 145 496 | 134 724 | 128 280 | 151 086 | 155 718 |
| Unwrought | 307 267 | 381 046 | 425 165 | 434 802 | 426 721 |
| Unwrought alloys | 362 897 | 400 139 | 446 358 | 468 500 | 463 411 |
| Scrap | 429 647 | 300 058 | 327 721 | 346 736 | 326 901 |
| Latvia | | | | | |
| Unwrought (a) | 2 634 | 2 052 | 4 940 | 6 100 | 1 810 |
| Scrap | 11 977 | 24 125 | 22 149 | 27 340 | 16 970 |
| Lithuania | | | | | |
| Alumina | 5 338 | 9 431 | 6 673 | 10 388 | 13 079 |
| Scrap | 1 654 | 7 907 | 4 435 | 1 131 | 1 841 |
| Netherlands | | | | | |
| Bauxite | 95 110 | 92 667 | 120 787 | 231 213 | 169 012 |
| Alumina | 726 542 | 554 967 | 634 626 | 671 167 | 654 487 |
| Alumina hydrate | 131 097 | 141 991 | 191 165 | 181 328 | 223 823 |
| Unwrought | 350 467 | 332 873 | 367 227 | 349 481 | 370 979 |
| Unwrought alloys | 170 095 | 193 099 | 216 251 | 249 182 | 287 504 |
| Scrap | 206 963 | 150 466 | 138 051 | 174 969 | 189 722 |

Aluminium and Bauxite

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|-----------|-----------|-----------|-----------|-----------|
| Norway | | | | | |
| Bauxite | 34 811 | 20 898 | 22 147 | 9 035 | 16 601 |
| Alumina | 1 977 187 | 2 063 999 | 2 267 237 | 2 620 149 | 2 723 588 |
| Alumina hydrate | 37 426 | 42 984 | 42 487 | 42 775 | 45 957 |
| Unwrought | 163 090 | 225 972 | 277 122 | 325 514 | 328 722 |
| Unwrought alloys | 60 982 | 56 209 | 24 473 | 29 974 | 42 056 |
| Scrap | 95 290 | 100 006 | 113 228 | 70 430 | 20 806 |
| Poland | | | | | |
| Bauxite | 37 835 | 49 504 | 67 966 | 82 233 | 59 758 |
| Alumina | 109 044 | 97 085 | 120 733 | 124 274 | 102 845 |
| Alumina hydrate | 25 766 | 25 562 | 25 572 | 26 927 | 29 538 |
| Unwrought | 49 259 | 74 302 | 88 008 | 85 010 | 62 403 |
| Unwrought alloys | 68 294 | 73 770 | 94 090 | 119 305 | 140 792 |
| Scrap | 12 080 | 9 616 | 13 472 | 31 536 | 39 907 |
| Portugal | | | | | |
| Alumina | 10 638 | 9 820 | 10 152 | 9 257 | 6 250 |
| Unwrought | 5 072 | 5 276 | 7 903 | 10 903 | 13 941 |
| Unwrought alloys | 169 878 | 167 619 | 185 279 | 200 335 | 224 631 |
| Scrap | 2 746 | 9 043 | 1 755 | 4 214 | 2 651 |
| Romania | | | | | |
| Bauxite | 1 152 415 | 843 557 | 821 036 | 1 532 335 | 1 655 045 |
| Alumina | 81 407 | 31 763 | 223 466 | 125 902 | 29 350 |
| Unwrought (a) | 224 | ... | 3 145 | 7 449 | 2 849 |
| Slovakia | | | | | |
| Bauxite | 28 803 | 8 211 | 8 300 | 7 991 | 3 669 |
| Alumina | 232 975 | 221 205 | 253 825 | 366 784 | 307 756 |
| Unwrought (a) | 36 909 | 53 060 | 49 945 | 45 913 | 31 683 |
| Scrap | 4 163 | 11 508 | 10 593 | 13 701 | 12 567 |
| Slovenia | | | | | |
| Bauxite | 87 940 | 35 020 | 51 683 | 44 560 | 47 935 |
| Alumina | 167 095 | 239 473 | 252 351 | 264 319 | 450 273 |
| Alumina hydrate | 26 905 | 23 219 | 22 878 | 14 131 | 23 581 |
| Unwrought | 79 091 | 51 670 | 63 688 | 57 362 | 73 137 |
| Unwrought alloys | 28 897 | 33 274 | 40 332 | 43 403 | 46 782 |
| Scrap | 13 739 | 13 262 | 13 676 | 27 390 | 47 381 |
| Spain | | | | | |
| Bauxite | 3 059 122 | 2 887 349 | 2 781 769 | 3 329 441 | 3 224 101 |
| Alumina | 61 147 | 53 469 | 50 403 | 55 184 | 58 627 |
| Alumina hydrate | 35 064 | 19 509 | 14 595 | 30 429 | 43 246 |
| Unwrought | 67 047 | 55 894 | 116 742 | 91 382 | 110 257 |
| Unwrought alloys | 149 069 | 166 771 | 166 538 | 235 123 | 223 627 |
| Scrap | 63 125 | 70 908 | 66 466 | 86 553 | 99 459 |
| Sweden | | | | | |
| Bauxite | 28 463 | 1 920 | 3 317 | 28 758 | 3 171 |
| Alumina | 133 786 | 172 761 | 196 834 | 205 734 | 191 504 |
| Alumina hydrate | 54 262 | 55 379 | 54 825 | 66 156 | 62 549 |
| Unwrought | 16 612 | 13 991 | 21 584 | 29 493 | 17 916 |
| Unwrought alloys | 80 571 | 106 217 | 97 276 | 120 732 | 117 202 |
| Scrap | 24 295 | 18 450 | 16 255 | 24 082 | 24 309 |
| Switzerland | | | | | |
| Bauxite | 4 669 | 7 653 | 5 881 | 8 066 | 9 929 |
| Alumina | 65 877 | 81 002 | 93 357 | 87 235 | 88 358 |
| Alumina hydrate | 19 621 | 17 953 | 15 340 | 16 945 | 16 823 |
| Unwrought | 67 203 | 66 958 | 60 791 | 73 413 | 75 987 |
| Unwrought alloys | 63 319 | 52 470 | 64 351 | 59 125 | 56 059 |
| Scrap | 15 910 | 12 565 | 11 327 | 20 734 | 27 617 |
| Turkey | | | | | |
| Bauxite | 25 323 | 33 361 | 39 129 | 34 592 | 46 016 |
| Alumina | 14 164 | 16 311 | 26 096 | 19 341 | 19 665 |
| Unwrought | 72 786 | 109 683 | 160 378 | 182 113 | 236 076 |
| Unwrought alloys | 52 939 | 84 829 | 114 881 | 144 836 | 146 853 |
| Scrap | 11 090 | 9 478 | 14 850 | 11 648 | 16 723 |

Imports continued

tonnes

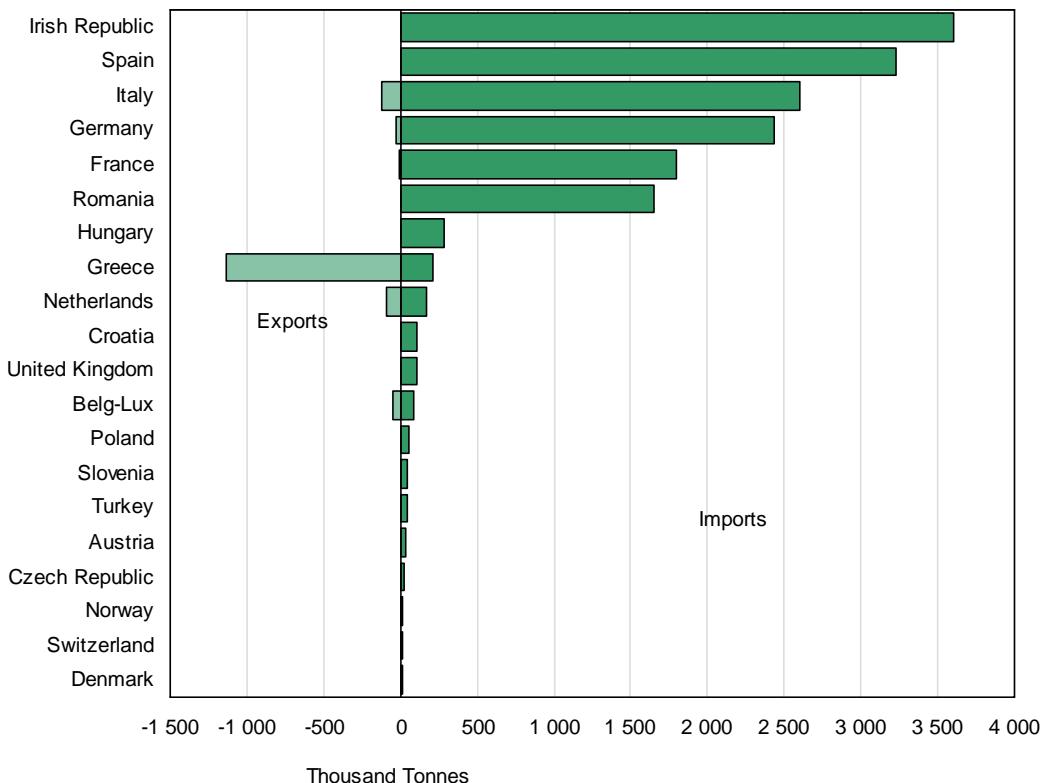
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|-------------|-------------|--------------|---------|---------|
| United Kingdom | | | | | |
| Bauxite | (b) 271 404 | ... | ... | 122 021 | 103 522 |
| Alumina | 713 808 | (d) 798 479 | (c) *828 300 | 748 933 | 755 443 |
| Alumina hydrate | 63 687 | ... | (c) *143 000 | 124 451 | 130 321 |
| Unwrought | 135 094 | 212 046 | 163 573 | 116 545 | 114 189 |
| Unwrought alloys | 211 245 | 159 310 | 129 451 | 118 398 | 87 063 |
| Scrap | 112 240 | 117 954 | 105 061 | 78 309 | 116 285 |

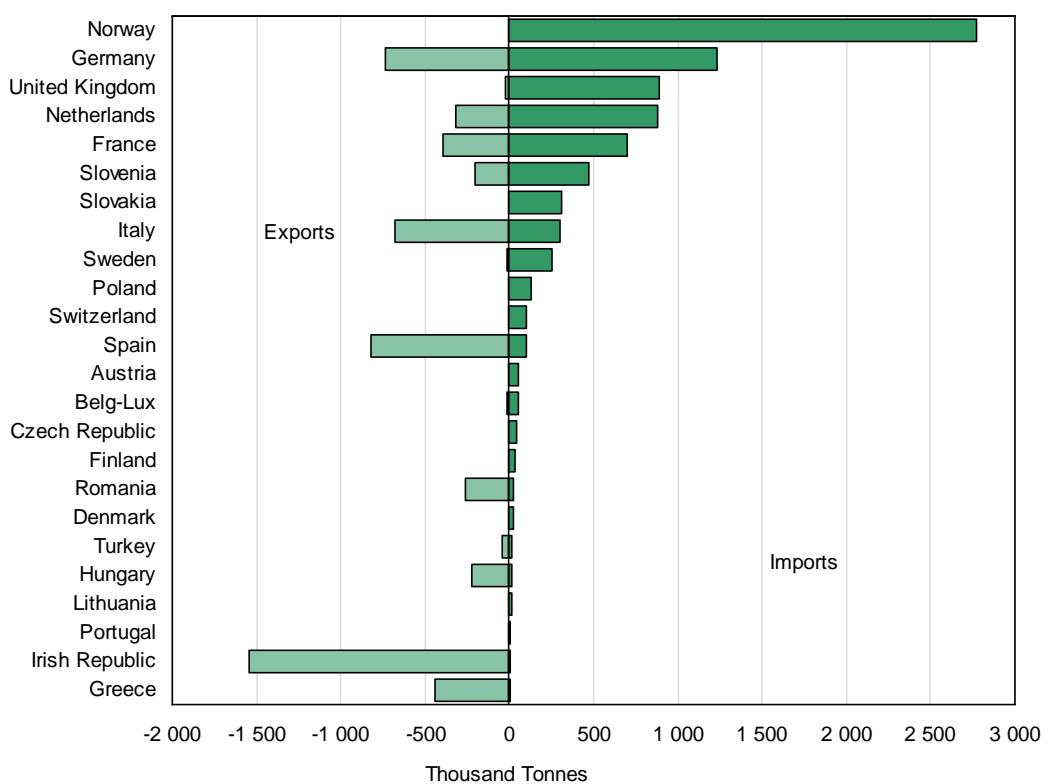
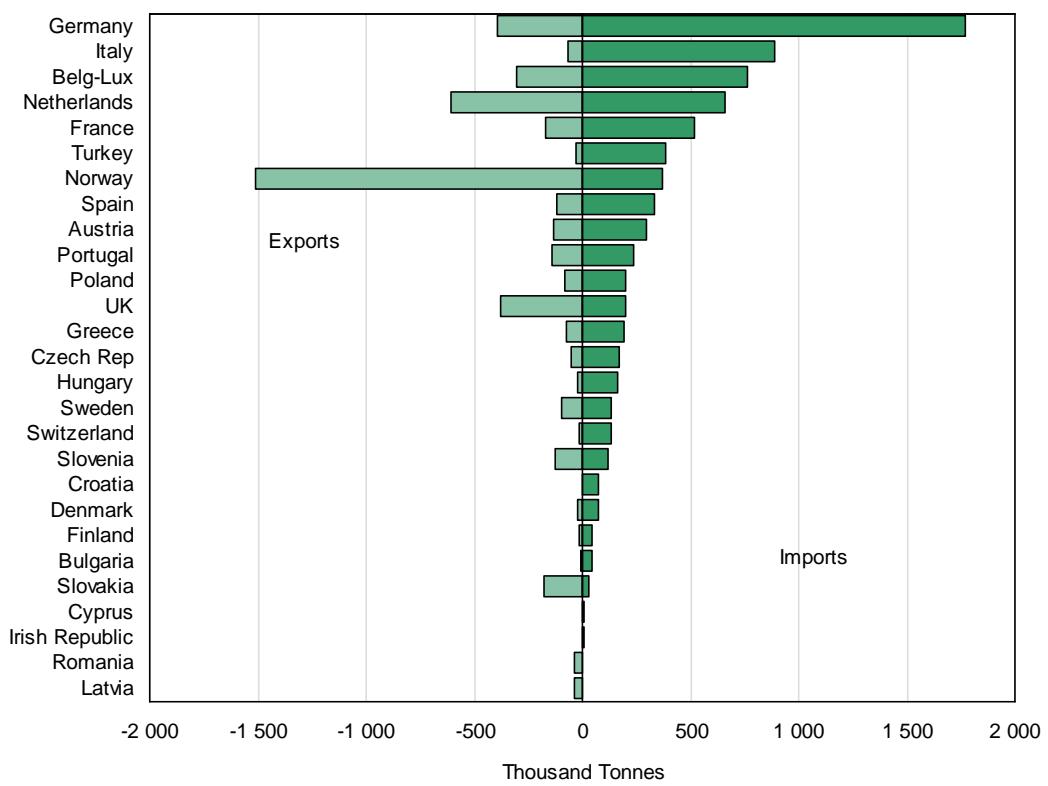
Note(s) :-

- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
 (2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars etc.
 (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

- (a) Including alloys
 (b) Excluding refractory grade bauxite
 (c) BGS estimates, based on known exports from certain countries
 (d) Including some bauxite

Bauxite – EU31 trade in 2005



Alumina and alumina hydrate – EU31 trade in 2005**Aluminium metal – EU31 trade in 2005**

Antimony

- Antimony is a toxic metallic element with several specialised uses. It is frequently alloyed with lead, where it greatly increases hardness and strength. Antimony is also used in semi-conductors and its compounds form excellent flame-retardants in cable sheathes.
- China was by far the largest mine producer of antimony in 2005, with 83% of world production. Antimony is also produced as a by-product of lead refining in many countries.
- Antimony metal, minimum 99.65% Sb, and antimony oxide, a white powder, are the most commonly traded forms. In 2005 the price of antimony metal averaged \$3462/tonne.

Mine production of antimony

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|------|------|------|------|------|
| Turkey | *20 | *20 | *20 | *20 | *20 |

Note(s):-

- (1) This table includes antimony content of antimonial lead alloys
(2) In addition, Hungary is believed to produce antimony

Exports of antimony

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------------|-------------|--------|--------|--------|
| Austria | | | | | |
| Metal | 37 | 103 | 16 | 19 | 1 089 |
| Belgium-Luxembourg | | | | | |
| Metal | 2 | 48 | 181 | 493 | 693 |
| Oxide | (a) *11 700 | (a) *11 700 | 12 063 | 12 443 | 11 526 |
| France | | | | | |
| Metal | 60 | 104 | 8 | 79 | 186 |
| Oxide | 3 715 | 3 391 | 4 352 | 4 540 | 5 177 |
| Germany | | | | | |
| Metal | 38 | 10 | 27 | 12 | 15 |
| Oxide | 783 | 543 | 683 | 786 | 724 |
| Greece | | | | | |
| Metal | 54 | 22 | 49 | 3 | 141 |
| Italy | | | | | |
| Metal | 36 | 70 | 1 | 3 | 10 |
| Oxide | 200 | 504 | 340 | 207 | 94 |
| Netherlands | | | | | |
| Metal | 186 | 115 | 315 | 212 | 570 |
| Oxide | 872 | 345 | 270 | 652 | 664 |
| Spain | | | | | |
| Metal | 92 | 10 | 41 | 409 | 13 |
| Oxide | 974 | 934 | 622 | 706 | 859 |
| Turkey | | | | | |
| Metal | 50 | ... | 7 | 25 | 63 |
| United Kingdom | | | | | |
| Metal | 473 | 252 | 65 | 88 | 54 |
| Oxide | 1 297 | 1 879 | 1 413 | 663 | 621 |

Note(s):-

- (a) BGS estimates, based on known imports into certain countries

Imports of antimony

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|--------|--------|--------|--------|
| Austria | | | | | |
| Metal | 205 | 270 | 120 | 53 | 74 |
| Oxide | 146 | 190 | 207 | 316 | 263 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 6 | 491 | 6 | 13 | 5 |
| Metal | 11 928 | 13 379 | 11 409 | 12 225 | 10 722 |
| Oxide | 900 | 1 583 | 1 615 | 1 708 | 1 735 |
| Bulgaria | | | | | |
| Metal | 50 | 48 | 52 | 47 | ... |
| Czech Republic | | | | | |
| Metal | 53 | 76 | 45 | 14 | 72 |
| Oxide | 548 | 626 | 365 | 557 | 588 |
| Finland | | | | | |
| Oxide | 269 | 238 | 238 | 248 | 199 |
| France | | | | | |
| Ores & concentrates | 223 | 6 | 5 | 11 | 9 |
| Metal | 6 854 | 6 645 | 5 241 | 8 486 | 7 766 |
| Oxide | 2 090 | 2 093 | 1 972 | 2 096 | 2 243 |
| Germany | | | | | |
| Ores & concentrates | 494 | — | — | 15 | — |
| Metal | 599 | 309 | 149 | 178 | 148 |
| Oxide | 6 384 | 6 915 | 6 707 | 7 072 | 6 560 |
| Greece | | | | | |
| Metal | 98 | 40 | 40 | 46 | 24 |
| Hungary | | | | | |
| Oxide | 180 | 178 | 150 | 186 | 180 |
| Irish Republic | | | | | |
| Metal | 12 | 31 | 15 | 13 | 0 |
| Italy | | | | | |
| Ores & concentrates | 446 | 727 | 786 | 879 | 1 005 |
| Metal | 1 929 | 1 551 | 1 377 | 743 | 164 |
| Oxide | 4 366 | 5 037 | 4 314 | 5 528 | 5 543 |
| Netherlands | | | | | |
| Metal | 775 | 268 | 511 | 817 | 705 |
| Oxide | 2 293 | 1 424 | 1 481 | 2 932 | 3 717 |
| Norway | | | | | |
| Metal | 9 | 3 | 8 | 0 | 71 |
| Oxide | 157 | 234 | 351 | 775 | 305 |
| Poland | | | | | |
| Metal | 53 | 10 | 49 | 80 | 28 |
| Oxide | 611 | 711 | 920 | 1 042 | 1 231 |
| Portugal | | | | | |
| Metal | 3 | 10 | 10 | 6 | 5 |
| Oxide | 331 | 254 | 147 | 242 | 137 |
| Romania | | | | | |
| Metal | 70 | 64 | 65 | 62 | 55 |
| Slovenia | | | | | |
| Metal | 29 | 118 | 52 | 84 | 137 |
| Spain | | | | | |
| Metal | 2 277 | 2 314 | 1 516 | 2 270 | 1 881 |
| Oxide | 828 | 544 | 519 | 5 656 | 808 |
| Sweden | | | | | |
| Metal | 108 | 176 | 269 | 234 | 199 |
| Oxide | 401 | 485 | 232 | 328 | 377 |
| Switzerland | | | | | |
| Ores & concentrates | 10 | 154 | 89 | 5 004 | 1 722 |
| Metal | 44 | 52 | 50 | 93 | 58 |
| Oxide | 1 033 | 720 | 927 | 1 174 | 1 026 |
| Turkey | | | | | |
| Metal | 20 | 98 | 141 | 87 | 40 |
| Oxide | 209 | 314 | 294 | 460 | 377 |
| United Kingdom | | | | | |
| Metal | 345 | 183 | 290 | 410 | 60 |
| Oxide | 4 103 | 3 164 | 2 712 | 2 976 | 2 048 |

Arsenic

- Arsenic is a toxic semi-metallic element produced and traded chiefly as 'white arsenic' (arsenic trioxide). Its principal uses are as compounds in wood preservatives and pesticides. Gallium arsenide is used in semi-conductors whilst arsenic metal has a number of minor uses.
- China was the largest producer of white arsenic in 2005 with an estimated 60% of world production.
- In 2005 the price of metallic arsenic (min. 99% As) averaged \$0.55/lb.

Production of white arsenic

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------|--------|--------|--------|--------|--------|
| Belgium | *1 000 | *1 000 | *1 000 | *1 000 | *1 000 |
| France | *1 000 | *1 000 | *1 000 | *1 000 | *1 000 |
| Germany | *200 | *200 | *200 | *200 | *200 |
| Portugal | *50 | *50 | *50 | *50 | *50 |

Note(s):-

- (1) This table includes calculated trioxide equivalent of arsenic metal produced except where this would involve double counting
(2) In addition to the countries listed, Austria, Finland, Hungary, Spain and the United Kingdom are believed to produce arsenic

Exports of arsenic

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------|------|------|------|------|
| Belgium-Luxembourg | | | | | |
| Metallic arsenic | 29 | 62 | 27 | 10 | 101 |
| France | | | | | |
| Metallic arsenic | 22 | ... | 0 | ... | 8 |
| Germany | | | | | |
| Metallic arsenic | 8 | 9 | 8 | 14 | 20 |
| Italy | | | | | |
| Metallic arsenic | — | — | — | — | 16 |
| Netherlands | | | | | |
| Metallic arsenic | 39 | 45 | 64 | 115 | 50 |
| United Kingdom | | | | | |
| Metallic arsenic | 5 | 5 | 0 | 0 | 1 |

Note(s):-

- (1) This table does not purport to be comprehensive: data relating to arsenic are not fully recorded by many countries

Imports of arsenic

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------|------|------|------|------|
| Austria | | | | | |
| Metallic arsenic | 28 | 16 | 5 | ... | 2 |
| Belgium-Luxembourg | | | | | |
| Metallic arsenic | 73 | 75 | 90 | 95 | 164 |
| Czech Republic | | | | | |
| Metallic arsenic | 18 | 24 | 20 | 8 | 9 |
| France | | | | | |
| Metallic arsenic | 50 | 17 | 4 | 9 | 21 |
| Germany | | | | | |
| Metallic arsenic | 8 | 5 | 5 | 4 | 2 |
| Greece | | | | | |
| Metallic arsenic | 15 | 31 | 16 | 21 | 35 |
| Irish Republic | | | | | |
| Metallic arsenic | 31 | 127 | 47 | ... | 158 |
| Italy | | | | | |
| Metallic arsenic | 48 | 91 | 111 | 84 | 54 |
| Netherlands | | | | | |
| Metallic arsenic | 137 | 77 | 61 | 110 | 85 |
| Norway | | | | | |
| Metallic arsenic | 44 | 36 | 0 | — | — |
| Poland | | | | | |
| White arsenic | 63 | 36 | 32 | ... | ... |
| Metallic arsenic | 11 | 30 | — | 14 | 39 |
| Spain | | | | | |
| Metallic arsenic | 87 | 136 | 114 | 92 | 112 |
| Sweden | | | | | |
| Metallic arsenic | 18 | 19 | 17 | 13 | 6 |
| Switzerland | | | | | |
| Metallic arsenic | 2 | 4 | 4 | 2 | 5 |
| Turkey | | | | | |
| White arsenic | 10 | ... | ... | ... | ... |
| Metallic arsenic | 23 | 49 | 78 | 48 | 82 |
| United Kingdom | | | | | |
| Metallic arsenic | 87 | 86 | 155 | 165 | 3 |

Note(s) :-

(1) This table does not purport to be comprehensive: data relating to arsenic are not fully recorded by many countries

Asbestos

- Asbestos is a commercial term for six fibrous minerals of which chrysotile (white asbestos), the fibrous form of serpentine, is the only form of asbestos now worked. Asbestos was once highly sought after because of its unique combination of properties:
 - non-combustibility
 - resistance to heat, friction, corrosion and acid/alkali attack
 - good thermal and sound insulation qualities
 - good dielectric properties
- Airborne asbestos fibres are a serious hazard to health and virtually all industrial use of asbestos has now ceased in Europe. Only Greece continues to produce minor amounts for highly specialised, and carefully controlled, applications. The largest producer in the world is Russia with 42% of world production.
- In 2005 the EU31 countries were strongly dependent on asbestos imports from outside the EU31. The price of asbestos (U.S. Imports) was around \$330/tonne in 2005.

Production of asbestos

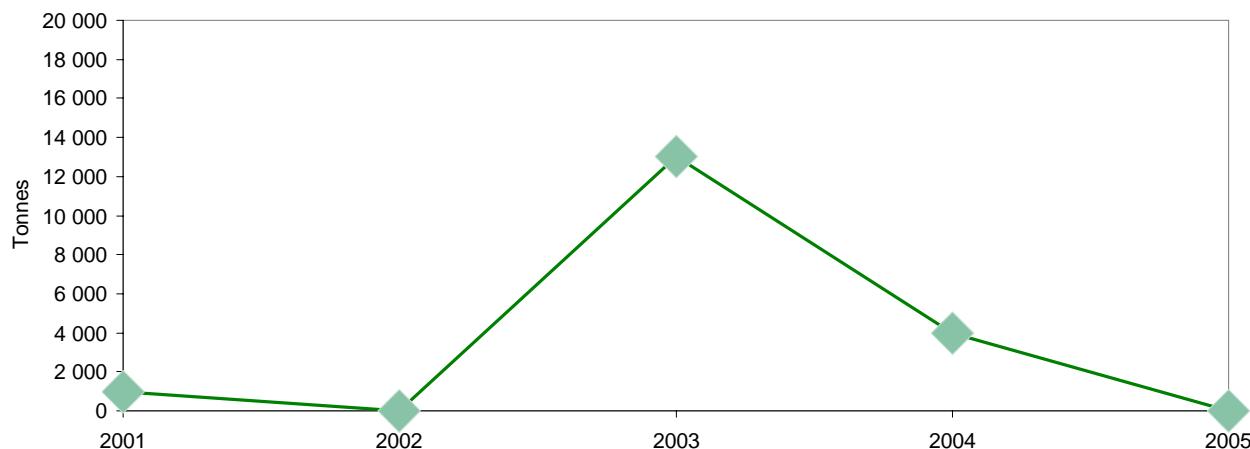
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|--------|------|---------|--------|------|
| Greece | *1 000 | — | *13 000 | *4 000 | — |

Note(s):-

(1) In addition to the countries listed, Romania is believed to produce asbestos

EU31 Production of asbestos 2001 - 05



Exports of unmanufactured asbestos

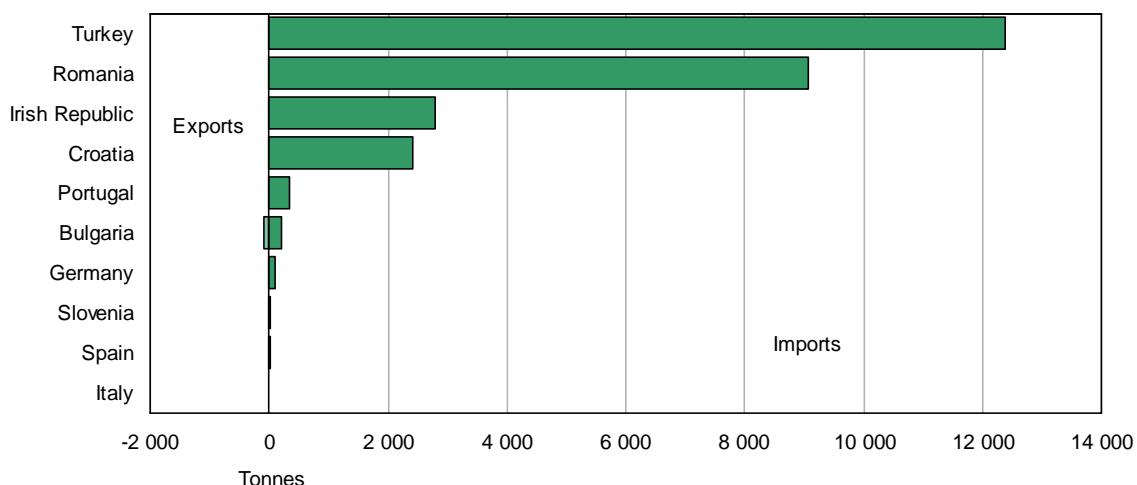
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------|------|------|--------|-------|------|
| Bulgaria | 36 | 9 | 0 | 83 | ... |
| France | 59 | ... | 5 | 31 | — |
| Greece | 252 | 29 | 12 576 | 4 256 | — |
| Italy | ... | ... | ... | ... | 20 |
| Lithuania | 139 | 0 | 0 | ... | ... |
| Spain | 36 | 1 | — | — | — |
| Turkey | 5 | 3 | 42 000 | 0 | — |

Imports of unmanufactured asbestos

tonnes

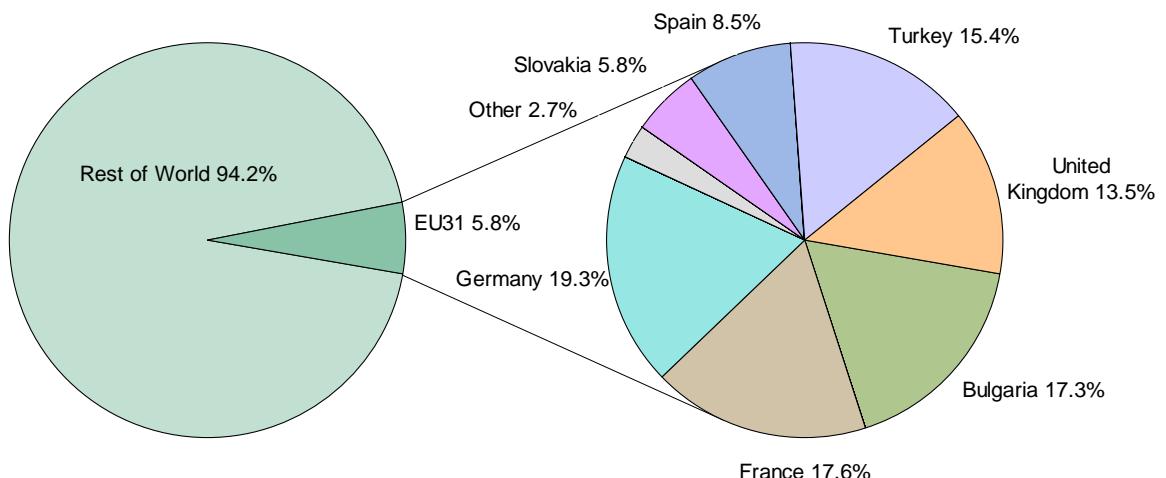
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Belgium-Luxembourg | 65 | ... | 1 | 63 | ... |
| Bulgaria | 271 | 160 | 50 | 196 | ... |
| Croatia | 2 666 | 3 274 | 1 958 | 3 251 | 2 429 |
| Czech Republic | 2 322 | 785 | 1 464 | 2 891 | 0 |
| Estonia | 58 | 61 | ... | ... | ... |
| France | 25 | 0 | 3 | 8 | 5 |
| Germany | 168 | 199 | 59 | 69 | 98 |
| Greece | 1 016 | 1 988 | 91 | — | ... |
| Hungary | 2 167 | 740 | 574 | ... | ... |
| Irish Republic | 1 | 19 | — | 475 | 2 794 |
| Latvia | 664 | ... | ... | 34 | 4 |
| Poland | 19 | 19 | — | 16 | 6 |
| Portugal | 5 505 | 7 137 | 1 568 | 474 | 356 |
| Romania | 13 644 | 12 137 | 11 859 | 13 036 | 9 077 |
| Slovenia | ... | ... | ... | 10 | 25 |
| Spain | 13 349 | 3 085 | 130 | 192 | 23 |
| Turkey | 10 557 | 13 977 | 14 645 | 13 509 | 12 373 |
| United Kingdom | 347 | 118 | 3 | 2 150 | — |

Asbestos – EU31 trade in 2005

Barytes

- Barytes (barium sulphate) is used in a variety of industries that utilise its properties of high specific gravity, softness, non-abrasiveness, chemical neutrality and brightness. Around 88% of barytes production is used in the manufacture and utilisation of drilling fluids in oil and gas exploration.
- The EU31 countries contributed 6% of world barytes production in 2005. The largest producer amongst the EU31 is Germany. The largest world producer is China, which accounted for 54% of world production in 2005.
- Two main grades of barytes are traded on world markets: paint grade (min. 99%) and drilling fluid grade (min. 95%). In 2005 paint grade micronised barytes averaged £145/tonne delivered into the UK. Drilling fluid grade barytes delivered to Aberdeen ranged between £60-65/tonne.

EU31 Production of barytes 2005



Production of barytes

tonnes

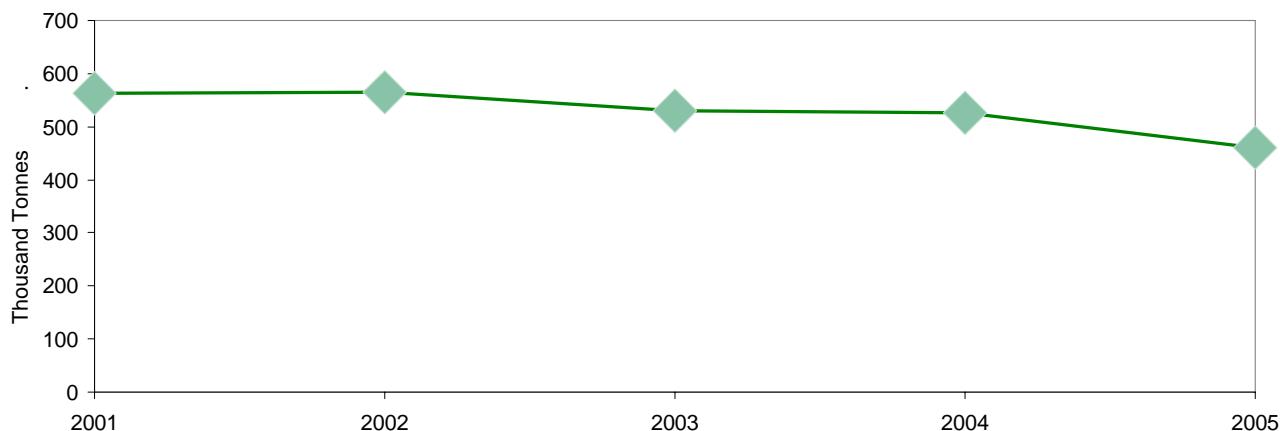
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Bulgaria | 131 100 | 123 200 | 91 200 | 75 400 | 79 500 |
| France | 81 000 | 85 200 | 81 100 | 81 000 | *81 000 |
| Germany | 108 111 | 100 993 | 109 506 | 93 624 | 88 591 |
| Italy | 10 809 | 10 215 | 12 214 | 9 608 | *10 000 |
| Poland | — | 2 708 | 3 030 | 3 183 | 2 357 |
| Romania | 2 851 | 100 | 23 | — | — |
| Slovakia | 14 450 | 25 820 | 12 000 | 27 063 | 26 589 |
| Spain | 45 473 | 50 071 | 44 660 | 40 776 | 39 133 |
| Turkey | 102 323 | 106 943 | 119 648 | 134 504 | 70 925 |
| United Kingdom | *66 000 | *59 000 | *57 000 | *61 000 | *62 000 |
| EU31 Total | 560 000 | 560 000 | 530 000 | 530 000 | 460 000 |

Note(s):-

(1) This table may include small quantities of witherite

Barytes

EU31 Production of barytes 2001 - 05



Exports of barytes

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 1 402 | 1 197 | 479 | 2 737 | 1 407 |
| Belgium-Luxembourg | 6 707 | 1 781 | 1 424 | 3 646 | 4 016 |
| Bulgaria | 131 137 | 123 224 | 91 215 | 75 393 | 76 644 |
| Czech Republic | 535 | 986 | 895 | 616 | 557 |
| France (a) | *61 000 | *30 200 | *55 500 | *75 700 | *57 700 |
| Germany | 38 775 | 32 297 | 32 546 | 32 383 | 32 375 |
| Italy | 390 | 2 076 | 224 | 1 951 | 505 |
| Netherlands | 88 229 | 98 393 | 91 083 | 77 269 | 52 444 |
| Norway | 9 227 | 5 234 | 11 105 | 15 888 | 1 482 |
| Slovakia | 14 215 | 11 037 | 6 642 | 7 919 | 7 876 |
| Spain | 39 910 | 44 570 | 37 141 | 33 930 | 27 389 |
| Turkey | 136 916 | 117 862 | 101 716 | 142 767 | 134 333 |
| United Kingdom | 58 969 | 37 778 | 69 094 | 12 873 | 16 334 |

Note(s):-

(1) Trade in barytes is reported under item 2511 of the Harmonised System and is described as 'barytes and witherite'. However, only small quantities of witherite are traded

(a) BGS estimates, based on known imports into certain countries

Imports of barytes

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 3 151 | 2 420 | 2 742 | 3 910 | 5 863 |
| Belgium-Luxembourg | 6 706 | 5 369 | 6 045 | 3 255 | 3 432 |
| Croatia | 111 | 1 803 | 1 053 | 1 878 | 715 |
| Czech Republic | 10 594 | 10 754 | 8 448 | 8 782 | 8 552 |
| Denmark | 46 013 | 53 153 | 39 341 | 36 133 | 28 788 |
| Finland | 2 537 | 3 070 | 3 119 | 3 559 | 3 931 |
| France | 19 902 | 20 442 | 23 009 | 28 748 | 31 965 |
| Germany | 251 884 | 221 000 | 218 811 | 226 706 | 231 471 |
| Greece | 1 657 | 839 | 791 | 858 | 996 |
| Hungary | 1 455 | 1 878 | 1 704 | 3 453 | ... |
| Irish Republic | 176 | 318 | 332 | 411 | 894 |
| Italy | 93 733 | 79 605 | 87 501 | 86 874 | 84 178 |
| Netherlands | 111 042 | 103 133 | 136 981 | 155 325 | 116 512 |
| Norway | 145 445 | 110 755 | 115 402 | 129 547 | 109 802 |
| Poland | 7 358 | 6 571 | 8 318 | 6 593 | 7 744 |
| Portugal | 2 721 | 2 607 | 3 589 | 2 630 | 5 382 |

Imports continued

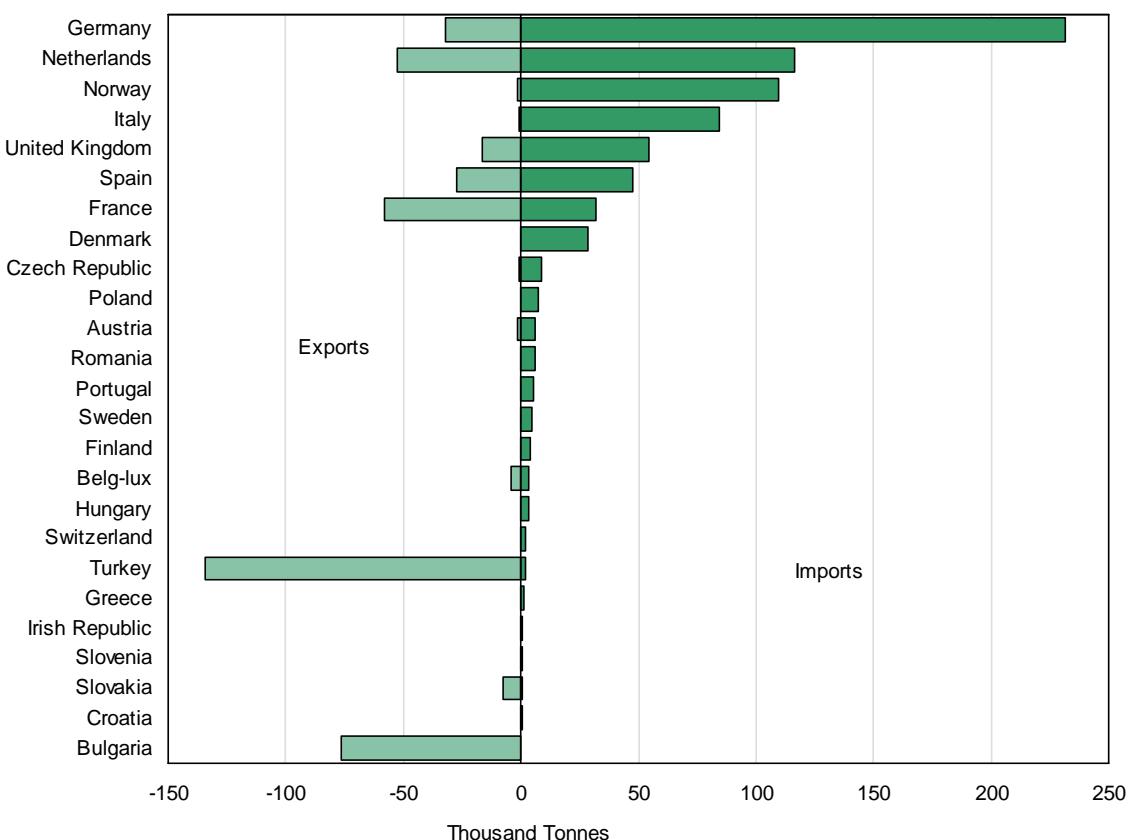
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|--------|--------|--------|--------|--------|
| Romania | 8 198 | 16 869 | 2 943 | 9 943 | 5 747 |
| Slovakia | 538 | 1 312 | 956 | 927 | 814 |
| Slovenia | 1 026 | 1 075 | 931 | 896 | 845 |
| Spain | 39 311 | 51 952 | 50 596 | 59 378 | 47 923 |
| Sweden | 1 892 | 1 927 | 1 848 | 2 854 | 4 610 |
| Switzerland | 1 917 | 1 844 | 2 433 | 2 187 | 2 242 |
| Turkey | 371 | 202 | 121 | 258 | 1 983 |
| United Kingdom | 77 273 | 74 935 | 56 867 | 63 934 | 54 753 |

Note(s) :-

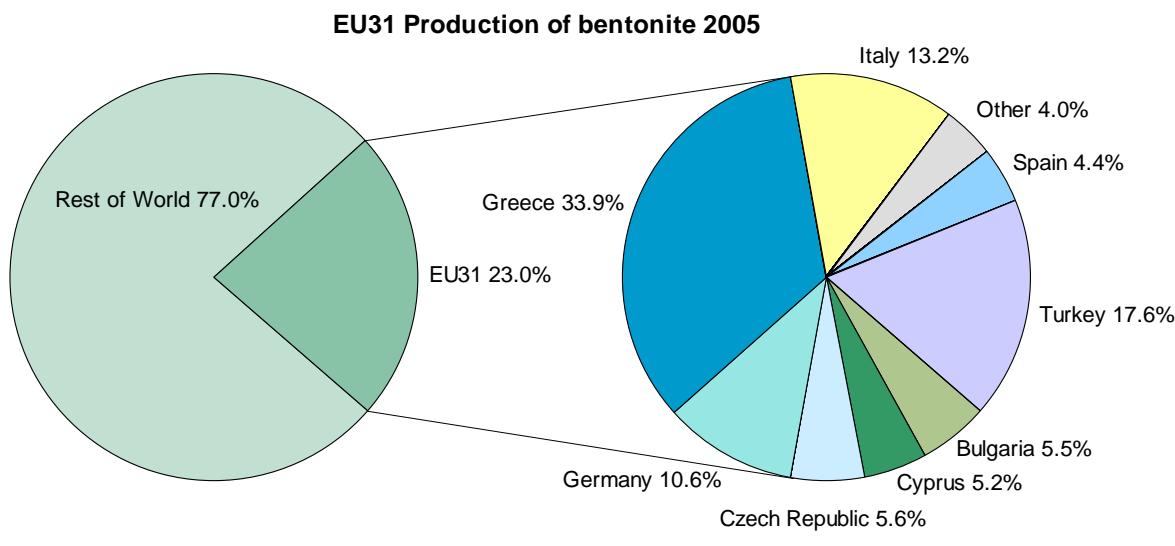
- (1) Trade in barytes is reported under item 2511 of the Harmonised System and is described as 'barytes and witherite'. However, only small quantities of witherite are traded

Barytes – EU31 trade in 2005

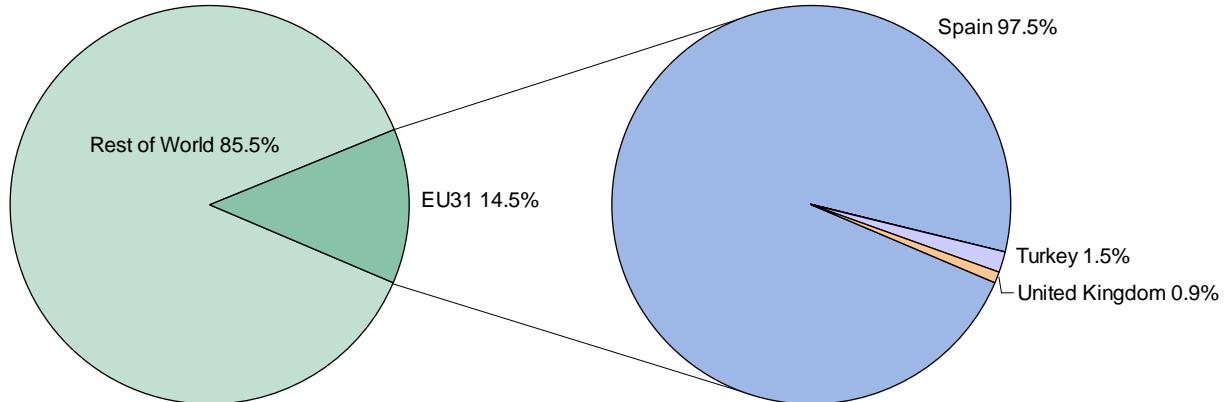


Bentonite and fullers earth

- Bentonites consist of montmorillonite (a clay mineral) that occurs as two main varieties — calcium bentonite and the more commercially important sodium bentonite. In the UK the name fuller's earth is given to calcium bentonite (and in the USA to attapulgite). Sepiolite is a fibrous clay that can be a substitute for bentonite. Calcium bentonite can be changed to sodium bentonite by the ion-exchange process. The main uses of bentonite and fuller's earth take advantage of their natural sorptive and thixotropic properties. They are used as additions to drilling muds, in making foundry moulds, pelletising iron ore and in the manufacture of cat litter.
- The EU31 countries produced 23% of world bentonite and 14.5% of fuller's earth in 2005. Greece is the largest producer of bentonite in the EU31 and the UK is the largest producer of fuller's earth. All of Europe's reported sepiolite production in 2005 came from Spain. Turkey, however, is believed to produce some sepiolite.
- Bentonite is traded in a variety of forms. For example, cat litter grade traded at between \$32–\$40/tonne during 2005.



EU31 Production of fuller's earth, attapulgite and sepiolite 2005



Production of bentonite and fuller's earth

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Bulgaria | | | | | |
| Bentonite | 171 092 | 211 500 | 145 500 | 224 900 | 181 200 |
| Croatia | | | | | |
| Bentonite | 10 580 | 12 102 | 13 568 | 15 674 | 17 391 |
| Cyprus | | | | | |
| Bentonite | 127 000 | 128 400 | 144 859 | 155 717 | 172 366 |
| Czech Republic | | | | | |
| Bentonite | 224 000 | 174 000 | 199 000 | 201 000 | 186 000 |
| Denmark | | | | | |
| Bentonite | 12 166 | 14 539 | 16 303 | 18 352 | 18 515 |

Production continued

tonnes

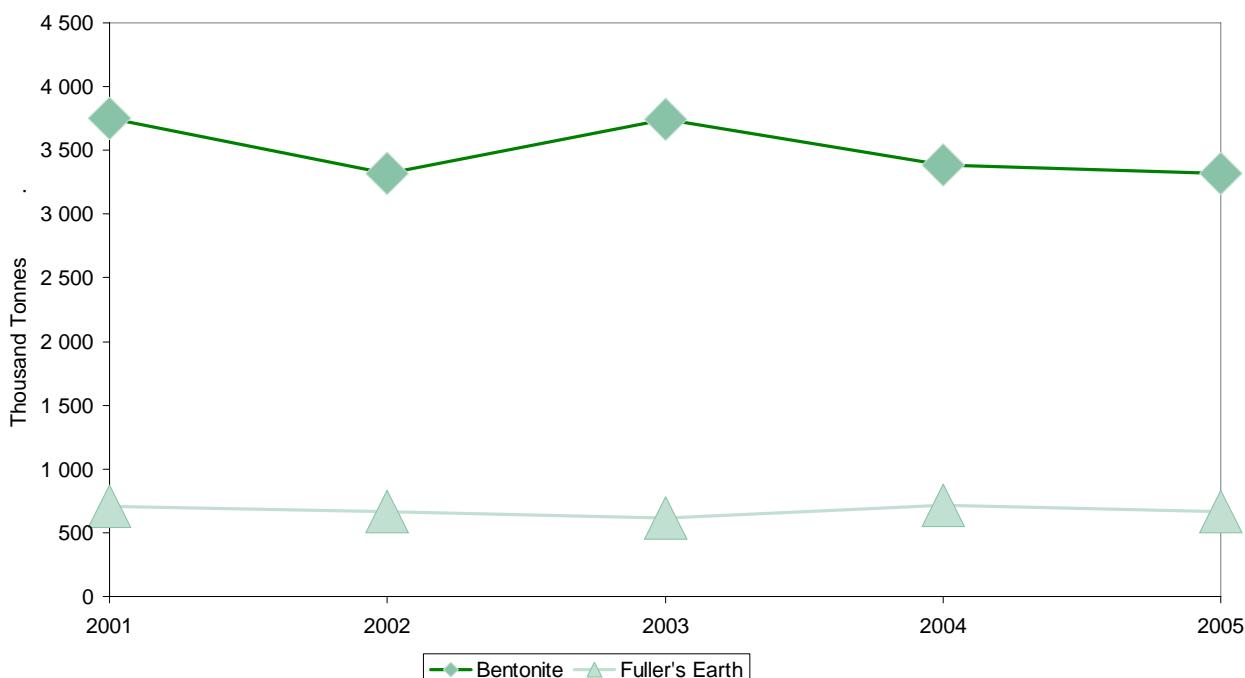
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Germany | | | | | |
| Bentonite | 447 913 | 495 310 | 478 796 | 404 549 | 352 374 |
| Greece | | | | | |
| Bentonite | 1 258 872 | 1 056 598 | 1 156 642 | 1 030 556 | 1 124 795 |
| Hungary | | | | | |
| Bentonite | 30 441 | 3 700 | 87 200 | 9 300 | 4 900 |
| Italy | | | | | |
| Bentonite | 579 029 | 463 231 | 474 475 | 437 659 | ... |
| Fuller's earth | 19 815 | 24 595 | 250 | 300 | ... |
| Romania | | | | | |
| Bentonite | 24 779 | 15 389 | 17 637 | 18 161 | 18 190 |
| Slovakia | | | | | |
| Bentonite | 73 000 | 65 500 | 74 700 | 73 280 | 75 860 |
| Spain | | | | | |
| Bentonite | *120 000 | 123 457 | 103 174 | 156 760 | 145 000 |
| Attapulgite | 24 477 | 22 918 | 18 975 | 20 796 | 18 100 |
| Sepiolite | *600 000 | 564 610 | 548 728 | 655 346 | 631 033 |
| Turkey | | | | | |
| Bentonite | 674 178 | 559 224 | 831 146 | 643 153 | 582 735 |
| Sepiolite | 10 253 | ... | ... | ... | ... |
| United Kingdom | | | | | |
| Fuller's earth (a) | 52 000 | 44 200 | 33 900 | 27 540 | 6 200 |
| EU31 Total | | | | | |
| Bentonite | 3 753 000 | 3 323 000 | 3 743 000 | 3 389 000 | 3 316 000 |
| Fuller's Earth (b) | 707 000 | 666 000 | 612 000 | 714 000 | 666 000 |

Note(s):-

- (1) Bentonites consist of montmorillonite (one of the smectite group of clay minerals) and occur in two main varieties, calcium bentonite, the most commonly occurring, and sodium bentonite, industrially the more important
- (2) Calcium bentonite can be converted to sodium bentonite by a sodium-exchange process
- (3) In some countries, such as the United Kingdom, calcium bentonite is known as fuller's earth, a term which is also used to refer attapulgite, a mineralogically distinct clay mineral but exhibiting similar properties
- (4) In addition to the countries listed, Austria is believed to produce bentonite and France may produce fuller's earth

- (a) Saleable production based on data from producing companies
(b) Including attapulgite and sepiolite

EU31 production of bentonite and fuller's earth 2001 - 05



Exports of bentonite and fuller's earth

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Bentonite | 8 142 | 10 394 | 9 246 | 8 242 | 10 173 |
| Belgium-Luxembourg | | | | | |
| Bentonite | 5 642 | 14 819 | 28 403 | 22 700 | 26 049 |
| Bulgaria | | | | | |
| Bentonite | 160 332 | 121 868 | 102 263 | 95 435 | 76 614 |
| Cyprus | | | | | |
| Bentonite | 80 714 | 81 388 | 71 460 | 81 596 | 85 724 |
| Czech Republic | | | | | |
| Bentonite | 46 823 | 32 002 | 17 439 | 62 012 | 85 093 |
| Denmark | | | | | |
| Bentonite | 10 911 | 14 601 | 16 821 | 17 279 | 17 066 |
| Finland | | | | | |
| Bentonite | 15 891 | 10 286 | 1 132 | 188 | 155 |
| France | | | | | |
| Bentonite | 23 580 | 20 343 | 18 966 | 7 696 | 9 243 |
| Fuller's earth | 267 | 34 | — | 10 | 31 |
| Germany | | | | | |
| Bentonite | 56 589 | 43 329 | 57 237 | 50 477 | 71 977 |
| Fuller's earth | 410 | ... | 299 | 860 | 1 540 |
| Greece | | | | | |
| Bentonite | 80 669 | 25 969 | 27 395 | 15 612 | 1 283 |
| Hungary | | | | | |
| Bentonite | 5 784 | 2 118 | 1 030 | 897 | 442 |
| Italy | | | | | |
| Bentonite | 209 107 | 215 834 | 221 353 | 257 596 | 245 515 |
| Netherlands | | | | | |
| Bentonite | 165 460 | 178 006 | 180 736 | 203 897 | 186 286 |
| Fuller's earth | 8 123 | 4 019 | 3 752 | 9 085 | 2 931 |
| Poland | | | | | |
| Bentonite | ... | ... | ... | ... | 12 002 |
| Romania | | | | | |
| Bentonite | 12 748 | 4 430 | 4 056 | 8 810 | 7 154 |
| Slovakia | | | | | |
| Bentonite | 65 850 | 56 645 | 66 954 | 85 341 | 76 014 |
| Fuller's earth | 1 091 | 1 007 | 856 | *1 000 | 1 757 |
| Spain | | | | | |
| Bentonite | 61 691 | 63 120 | 74 277 | 80 410 | 75 450 |
| Sepiolite | 609 250 | 581 737 | 507 584 | 501 988 | 506 019 |
| Fuller's earth | 14 370 | 14 721 | 12 417 | 11 362 | 9 828 |
| Sweden | | | | | |
| Bentonite | 6 716 | 9 401 | 10 082 | 9 486 | 7 419 |
| Turkey | | | | | |
| Bentonite | 106 104 | 106 712 | 153 691 | 210 328 | 211 926 |
| United Kingdom | | | | | |
| Bentonite | 72 983 | 81 707 | 75 099 | 71 153 | 49 514 |
| Fuller's earth | 121 | 74 | 254 | 124 | 778 |

Note(s):-

- (1) See notes 1-3 to production table
- (2) The figures in this table refer to natural and sodium-exchanged bentonite, and fuller's earth, Harmonised System 2508.10 and 2508.20
- (3) Activated bentonite and fuller's earth, Harmonised System 3802.90, are excluded
- (4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Harmonised System 3802.90, e.g. Italy

Imports of bentonite and fuller's earth

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Bentonite | 55 291 | 54 441 | 47 358 | 53 871 | 58 344 |
| Fuller's earth | 45 | 129 | 560 | 615 | 374 |
| Belgium-Luxembourg | | | | | |
| Bentonite | 24 730 | 27 239 | 33 129 | 35 509 | 45 282 |
| Fuller's earth | 6 362 | 6 626 | 6 428 | 11 164 | 8 028 |
| Bulgaria | 550 | 653 | 511 | 1 089 | 1 600 |
| Croatia | | | | | |
| Bentonite | 10 094 | 14 571 | 1 238 | 2 181 | 1 897 |
| Cyprus | 11 060 | 24 260 | 20 519 | 18 052 | 3 057 |
| Czech Republic | | | | | |
| Bentonite | 15 410 | 12 623 | 11 795 | 19 852 | 14 776 |
| Fuller's earth | 595 | 547 | 702 | 564 | 1 290 |
| Denmark | | | | | |
| Bentonite | 40 261 | 43 666 | 46 516 | 37 253 | 47 386 |
| Fuller's earth | 183 | 41 | 40 | 107 | 137 |
| Finland | | | | | |
| Bentonite | 50 898 | 27 758 | 26 569 | 27 321 | 26 395 |
| Fuller's earth | 60 | 207 | 212 | 322 | 201 |
| France | | | | | |
| Bentonite | 162 787 | 174 735 | 170 540 | 220 260 | 163 999 |
| Fuller's earth | 1 196 | 1 794 | 3 701 | 17 907 | 18 445 |
| Germany | | | | | |
| Bentonite | 230 303 | 227 785 | 253 998 | 218 349 | 253 226 |
| Fuller's earth | 7 476 | 7 315 | 8 483 | 11 202 | 9 571 |
| Greece | | | | | |
| Bentonite | 3 654 | 3 639 | 14 280 | 8 902 | 22 164 |
| Fuller's earth | 362 | 1 068 | 898 | 633 | 844 |
| Hungary | 3 797 | 4 440 | 5 914 | 5 214 | 2 369 |
| Irish Republic | | | | | |
| Bentonite | 1 064 | 966 | 869 | 2 042 | 2 658 |
| Italy | | | | | |
| Bentonite | 112 094 | 103 545 | 139 576 | 153 410 | 138 973 |
| Fuller's earth | 12 920 | 12 954 | 10 982 | 5 760 | 7 893 |
| Latvia | | | | | |
| Bentonite | 438 | 1 087 | 1 710 | 1 917 | 1 629 |
| Lithuania | 2 124 | 1 762 | 2 642 | 2 475 | 2 716 |
| Netherlands | | | | | |
| Bentonite | 236 201 | 247 142 | 298 369 | 358 305 | 199 692 |
| Fuller's earth | 24 615 | 14 975 | 76 241 | 76 177 | 70 482 |
| Norway | | | | | |
| Bentonite | 11 476 | 11 618 | 13 963 | 13 667 | 10 000 |
| Poland | | | | | |
| Bentonite | 64 986 | 68 020 | 93 915 | 126 127 | 115 208 |
| Fuller's earth | 797 | 1 432 | 1 263 | 1 749 | 2 566 |
| Portugal | | | | | |
| Bentonite | 16 376 | 16 115 | 14 208 | 17 907 | 16 881 |
| Fuller's earth | 47 | 351 | 936 | 662 | 483 |
| Romania | 9 861 | 14 733 | 3 383 | 4 652 | 4 126 |
| Slovakia | | | | | |
| Bentonite | 4 861 | 4 008 | 3 912 | 6 040 | 6 863 |
| Fuller's earth | ... | 204 | 1 014 | 866 | 1 082 |
| Slovenia | 3 738 | 4 122 | 4 322 | 3 591 | 3 639 |
| Spain | | | | | |
| Bentonite | 64 157 | 72 294 | 68 776 | 60 709 | 83 784 |
| Fuller's earth | 578 | 1 067 | 488 | 271 | 238 |
| Sweden | | | | | |
| Bentonite | 136 742 | 125 852 | 140 176 | 82 414 | 48 564 |
| Switzerland | | | | | |
| Bentonite | 21 715 | 21 128 | 20 540 | 20 027 | 20 861 |
| Fuller's earth | 1 682 | 1 544 | 1 541 | 1 641 | 1 844 |
| Turkey | | | | | |
| Bentonite | 1 213 | 1 715 | 1 702 | 832 | 4 127 |
| Fuller's earth | 305 | 201 | 104 | 157 | 159 |

Imports of bentonite and fuller's earth

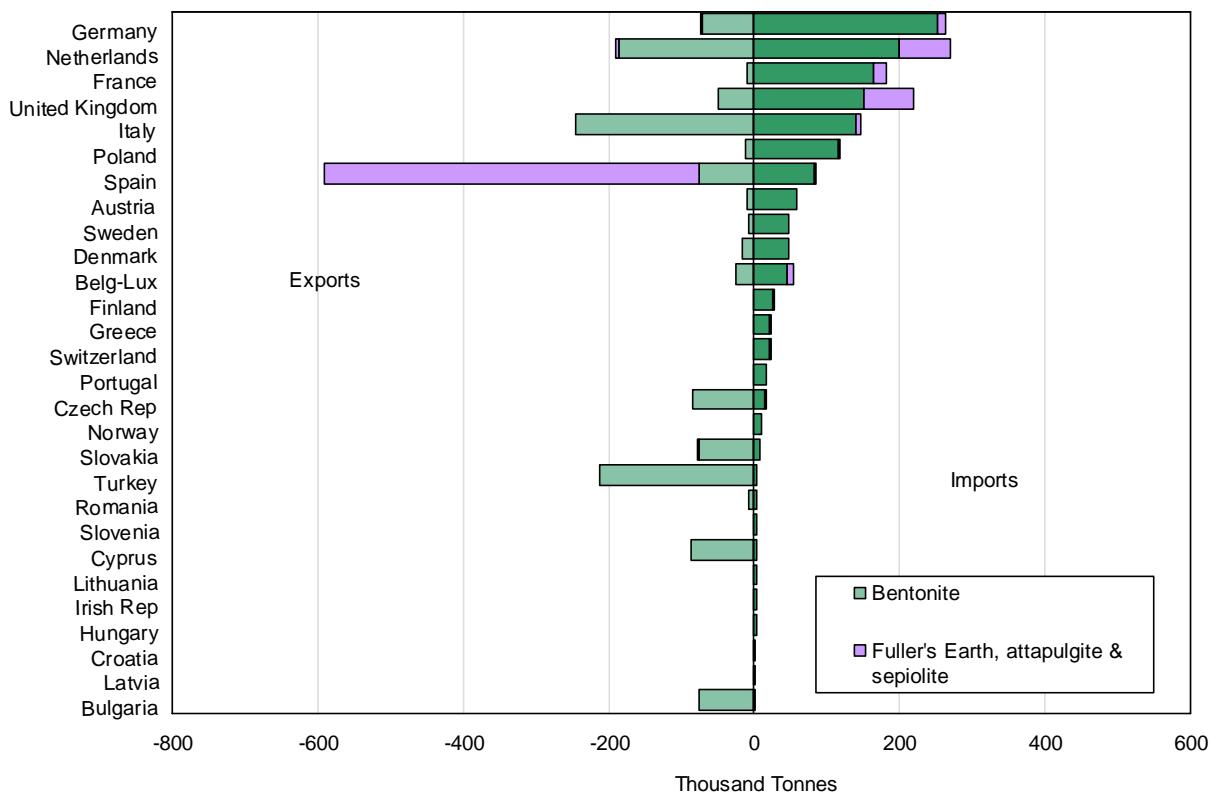
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|------------|------------|------------|---------|---------|
| United Kingdom | | | | | |
| Bentonite | 235 517 | 216 022 | 198 434 | 187 750 | 151 179 |
| Sepiolite | (a) 65 062 | (a) 69 691 | (a) 55 483 | 51 044 | 65 565 |
| Fuller's earth | 5 896 | 9 115 | 7 085 | 2 574 | 3 122 |

Note(s) :-

- (1) See notes 1-3 to production table
- (2) The figures in this table refer to natural and sodium-exchanged bentonite, and fuller's earth, Harmonised System 2508.10 and 2508.20
- (3) Activated bentonite and fuller's earth, Harmonised System 3802.90, are excluded
- (4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Harmonised System 3802.90, e.g. Italy

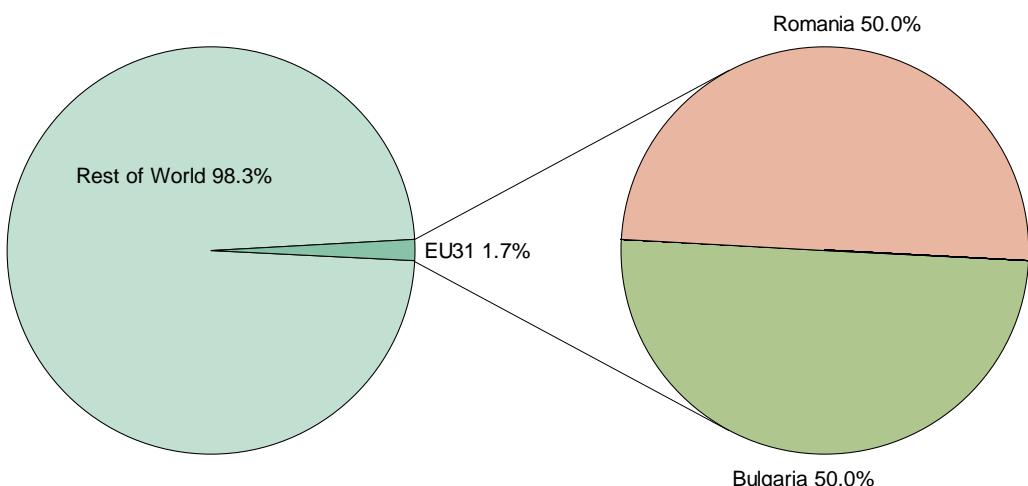
(a) Exports from Spain

Bentonite and fuller's earth – EU31 trade in 2005

Bismuth

- Bismuth is a metallic element, chiefly used in the form of its compounds, in pharmaceuticals and as metal in fusible (low-melting) alloys. It is also highly valued as a substitute for lead.
- China, Peru and Mexico are the world's largest producers of bismuth with 83% of world production in 2005. There is very little mine production in the EU31; however, bismuth is produced as a by-product of lead and zinc refining.
- Bismuth prices increased dramatically during 2005 due to limited supply and exhaustion of Chinese reserves. Substitution of bismuth for lead in many applications is significantly affecting demand. The price of bismuth in 2005 ranged from \$3.90/lb–\$4.20/lb.

EU31 Production of bismuth 2005



Mine production of bismuth

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|------|------|------|------|------|
| Bulgaria | *40 | *40 | *40 | *40 | *40 |
| Romania | *40 | *40 | *40 | *40 | *40 |
| EU31 Total | 80 | 80 | 80 | 80 | 80 |

Note(s):-

- (1) The figures in this table are in some instances derived from reported bismuth content of refined and impure metal plus recoverable in ores and concentrates exported
- (2) Production for some countries may include bismuth produced from imported ores but it is thought that any resulting duplication is insignificant in the countries shown

Bismuth

Exports of bismuth

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|-------|-------|
| Austria | | | | | |
| Metal | 24 | 0 | 8 | 8 | 8 |
| Belgium-Luxembourg | | | | | |
| Compounds | 1 415 | ... | ... | ... | ... |
| France | | | | | |
| Compounds | 12 | ... | ... | ... | ... |
| Metal | 28 | 26 | 46 | 28 | 39 |
| Germany | | | | | |
| Compounds | 35 | ... | ... | ... | ... |
| Metal | 104 | 228 | 152 | 275 | 371 |
| Netherlands | | | | | |
| Metal | 6 | 100 | 327 | 136 | 97 |
| Spain | | | | | |
| Compounds | 72 | — | ... | ... | ... |
| Metal | 7 | 13 | 10 | 2 | 9 |
| Sweden | | | | | |
| Metal | 2 | 13 | ... | ... | ... |
| United Kingdom | | | | | |
| Metal | 1 269 | 1 793 | 2 239 | 2 633 | 2 426 |

Note(s):-

(1) The compounds recorded in this table are bismuth carbonate and/or bismuth nitrate

Imports of bismuth

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|-------|-------|
| Austria | | | | | |
| Metal | 67 | 105 | 128 | 114 | 62 |
| Belgium-Luxembourg | | | | | |
| Metal | 1 | 4 | 4 | 20 | 27 |
| Czech Republic | | | | | |
| Metal | 26 | 42 | 56 | 64 | 50 |
| France | | | | | |
| Compounds | 101 | ... | ... | ... | ... |
| Metal | 420 | 728 | 629 | 830 | 1 029 |
| Germany | | | | | |
| Compounds | 1 295 | ... | ... | ... | ... |
| Metal | 2 038 | 1 517 | 1 689 | 1 693 | 1 508 |
| Greece | | | | | |
| Metal | 8 | 3 | 17 | 23 | 6 |
| Irish Republic | | | | | |
| Metal | 30 | 33 | 54 | 2 | 6 |
| Italy | | | | | |
| Metal | 391 | 301 | 151 | 175 | 203 |
| Netherlands | | | | | |
| Compounds | 360 | ... | ... | ... | ... |
| Metal | 278 | 108 | 274 | 166 | 85 |
| Poland | | | | | |
| Metal | 8 | 4 | 4 | 6 | 14 |
| Slovenia | | | | | |
| Metal | 35 | 54 | 42 | 43 | 69 |
| Spain | | | | | |
| Metal | 125 | 139 | 188 | 206 | 179 |
| Sweden | | | | | |
| Metal | 16 | 12 | 8 | 13 | 11 |
| Switzerland | | | | | |
| Metal | 18 | 15 | 15 | 6 | 15 |
| Turkey | | | | | |
| Metal | 3 | 4 | 4 | 6 | 7 |
| United Kingdom | | | | | |
| Metal | 1 515 | 1 513 | 2 237 | 2 205 | 2 858 |

Note(s) :-

(1) The compounds recorded in this table are bismuth carbonate and/or bismuth nitrate

Bromine

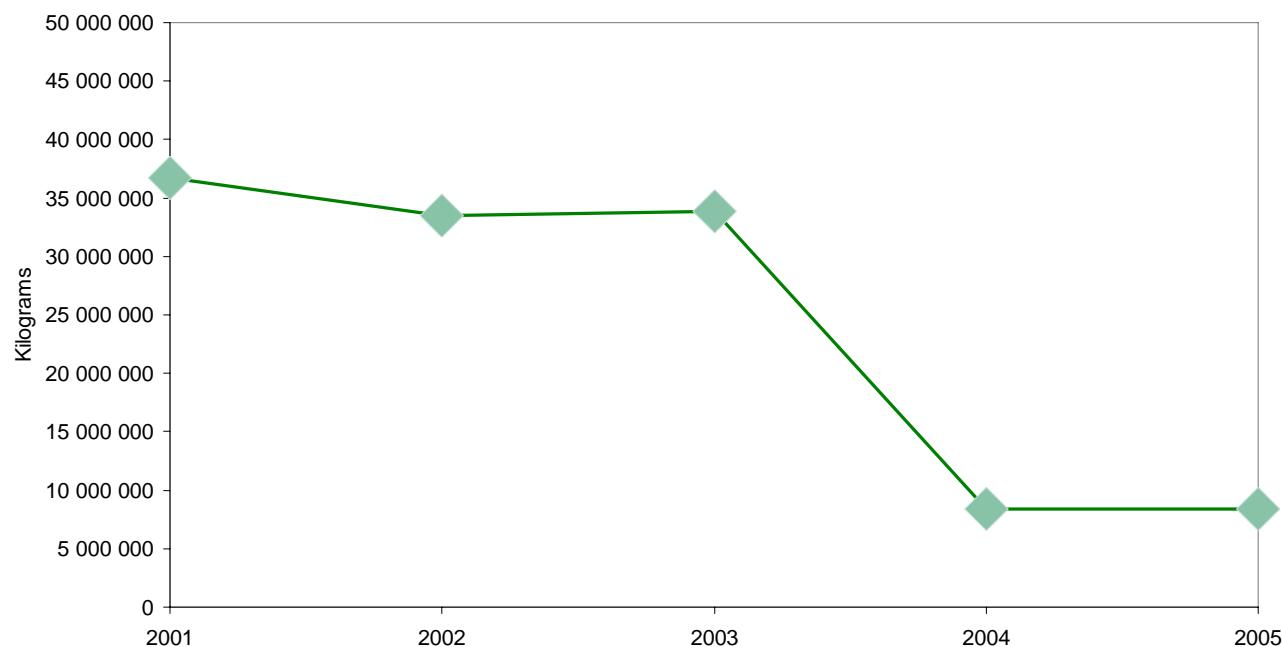
- Bromine is the only non-metallic element that is liquid at room temperature. It is strongly reactive and hazardous in pure forms and has a wide range of uses including medicinal, fumigants, dyes, and pesticides.
- Bromine is almost entirely produced from processing sea-water. The two largest producers are the USA (43%) and Israel (42%), the latter taking advantage of the relatively high bromine content of the Dead Sea.
- The price of purified bromine decreased in 2005 with an estimated price of \$0.81/kg.

Production of bromine

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|------------|------------|-------------|------------|------------|
| France | *8 000 000 | *8 000 000 | *8 000 000 | *8 000 000 | *8 000 000 |
| Germany | *500 000 | *500 000 | *500 000 | — | — |
| Italy | *300 000 | *300 000 | *300 000 | *300 000 | *300 000 |
| Spain | *100 000 | *100 000 | *100 000 | *100 000 | *100 000 |
| United Kingdom | 27 854 000 | 24 542 000 | *25 000 000 | — | — |
| EU31 Total | 36 800 000 | 33 400 000 | 33 900 000 | 8 400 000 | 8 400 000 |

EU31 Production of bromine 2001 - 05



Exports of bromine

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Belgium-Luxembourg | 21 200 000 | 21 462 800 | 17 930 400 | 21 275 800 | 19 124 000 |
| Germany | 15 000 | 13 700 | 16 700 | 5 600 | 3 000 |
| Italy | 16 000 | 2 259 | 1 296 | 505 | 1 000 |
| Netherlands | 9 091 000 | 11 625 600 | 5 219 900 | 634 000 | 1 593 000 |
| Poland | 3 000 | 2 000 | ... | ... | 3 000 |
| United Kingdom | 11 304 252 | 8 671 909 | 5 307 678 | 1 126 043 | 234 977 |

Note(s):-

- (1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

Imports of bromine

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|-------------|------------|-------------|------------|
| Austria | 228 000 | 254 900 | 252 200 | 93 000 | 222 000 |
| Belgium-Luxembourg | 23 057 000 | 25 627 900 | 21 097 900 | 23 466 200 | 25 108 000 |
| Finland | 92 000 | 57 054 | 56 506 | 71 251 | 71 000 |
| France | 11 914 000 | 12 437 700 | 13 225 500 | 12 595 900 | 13 989 000 |
| Germany | 2 121 000 | 1 775 500 | 1 835 400 | 1 626 600 | 1 304 000 |
| Hungary | 17 687 | 26 838 | 24 921 | 5 636 | 12 000 |
| Irish Republic | 22 000 | 5 739 | 33 238 | 602 | ... |
| Italy | 113 000 | 104 414 | 139 908 | 355 734 | 281 000 |
| Netherlands (a) | 1 253 | 2 017 929 | 981 870 | 147 994 | 5 019 459 |
| Poland | 14 000 | 6 000 | 2 000 | (a) 9 348 | 6 000 |
| Spain | 233 000 | 166 487 | 122 194 | 73 493 | 53 000 |
| Sweden | — | ... | 0 | 5 000 | 13 000 |
| Turkey | 91 505 | (a) 111 895 | (a) 75 080 | (a) 149 960 | 105 000 |
| United Kingdom | 5 387 458 | 2 879 558 | 1 899 231 | 7 145 977 | 7 994 939 |

Note(s) :-

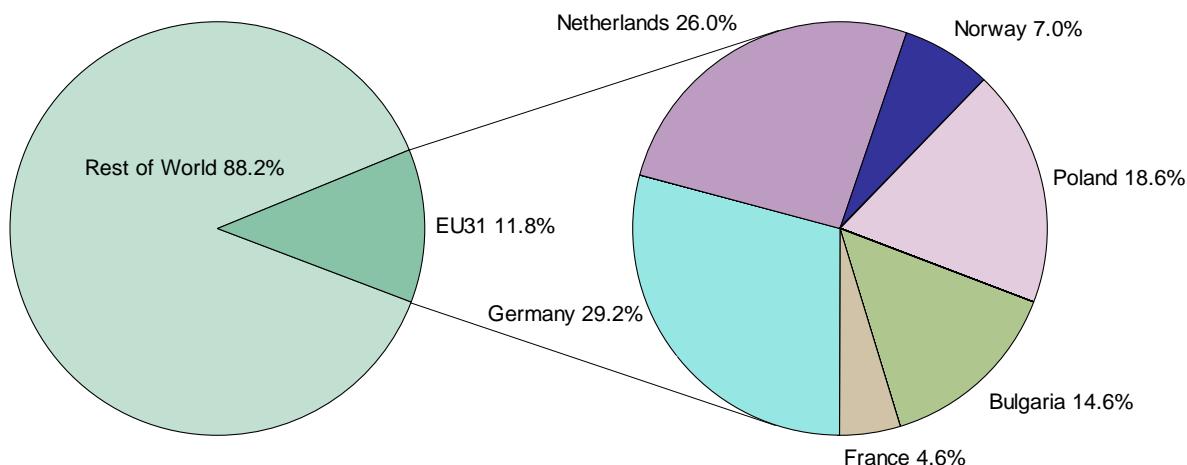
(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

(a) May include some fluorine

Cadmium

- Cadmium is a highly toxic metallic element mostly produced as a by-product of zinc refining. The bulk of cadmium in use is in nickel-cadmium (NiCd) rechargeable batteries. Other major uses are in pigments and in metal coatings.
- The two largest world producers in 2005 were China (16%) and the Republic of Korea (14%). The EU31 contributed 12% of world cadmium production in 2005. Germany was the largest EU31 producer accounting for around 29% of EU31 production.
- Cadmium prices have increased considerably in recent years, accelerating in 2005 to reach more than double those in 2004. This has largely resulted from the growing nickel-cadmium battery market coupled with limited primary metal production and depleted stocks. Cadmium metal (min. 99.95% Cd) traded between \$1.41/lb and \$1.54/lb in 2005.

EU31 Production of cadmium 2005



Production of cadmium

tonnes

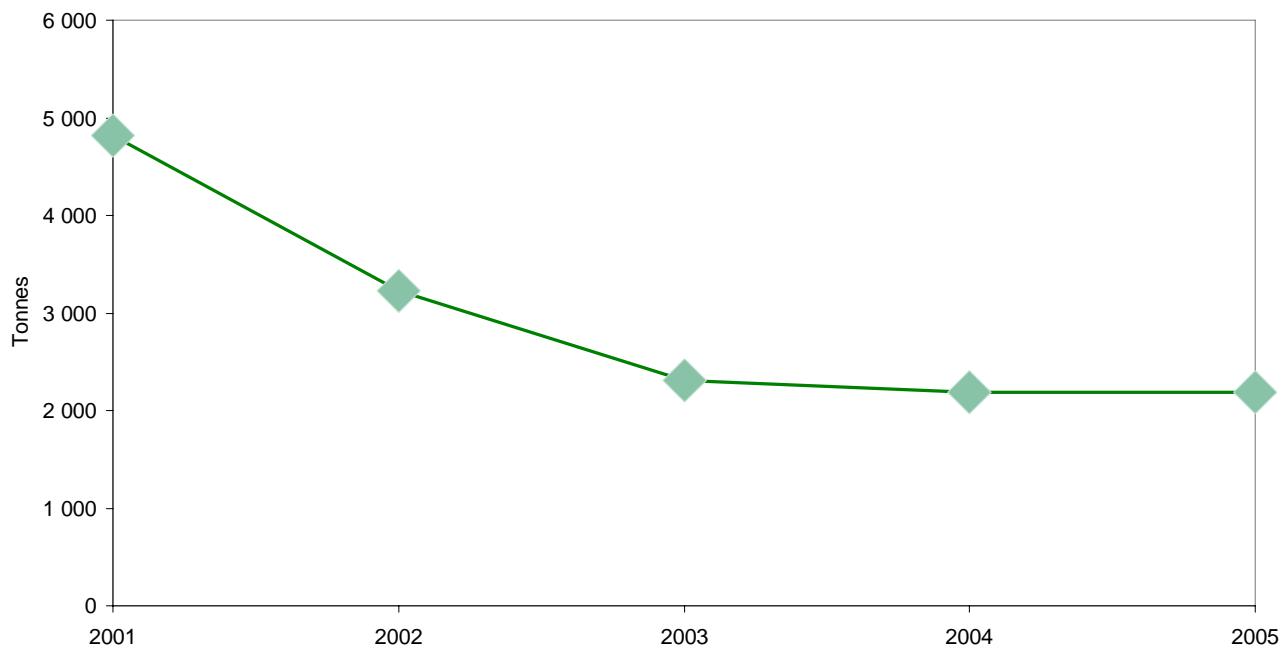
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-------|-------|-------|-------|-------|
| Belgium | 1 236 | 117 | — | — | — |
| Bulgaria | 333 | 345 | 307 | 356 | 319 |
| Finland | 604 | 400 | — | — | — |
| France | 176 | 154 | *120 | *120 | *100 |
| Germany | 539 | 422 | 640 | *640 | *640 |
| Italy | 352 | 362 | 22 | — | — |
| Netherlands | 455 | 485 | 495 | 572 | *570 |
| Norway | 371 | 215 | 323 | 141 | 153 |
| Poland | 330 | 440 | 375 | 356 | 408 |
| United Kingdom | 425 | 292 | 22 | — | — |
| EU31 Total | 4 800 | 3 200 | 2 300 | 2 200 | 2 200 |

Note(s):-

(1) Data in this table excludes secondary metal

Cadmium

EU31 Production of cadmium 2001 - 05



Exports of cadmium

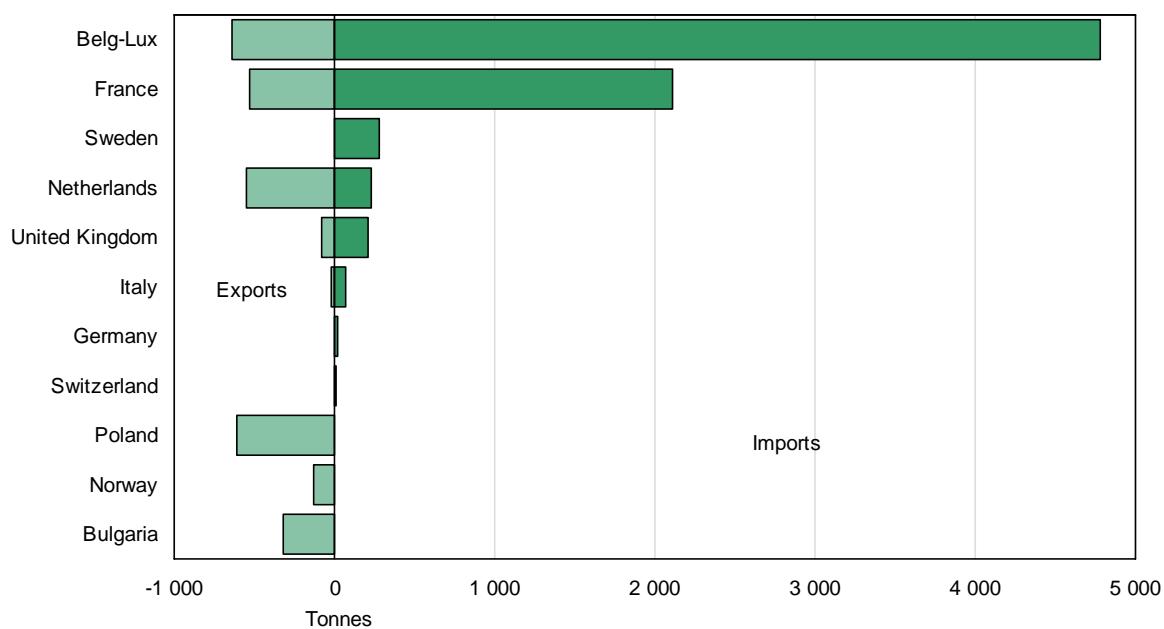
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|------|------|
| Belgium-Luxembourg | | | | | |
| Metal | 1 525 | 607 | 1 018 | 746 | 639 |
| Sulphide | 31 | 17 | 10 | 15 | 29 |
| Bulgaria | | | | | |
| Metal | 374 | 337 | 344 | 378 | 316 |
| Czech Republic | | | | | |
| Metal | 87 | 0 | 0 | 0 | ... |
| Finland | | | | | |
| Metal | 682 | 34 | 0 | ... | — |
| France | | | | | |
| Metal | 3 614 | 1 232 | 794 | 604 | 533 |
| Germany | | | | | |
| Metal | 1 | 1 | 0 | ... | ... |
| Sulphide | 3 | 2 | 5 | 6 | 14 |
| Italy | | | | | |
| Metal | 739 | 377 | 239 | 54 | 18 |
| Sulphide | 5 | 4 | 0 | — | — |
| Netherlands | | | | | |
| Metal | 891 | 741 | 572 | 621 | 553 |
| Norway | | | | | |
| Metal | 357 | 117 | 237 | 304 | 132 |
| Poland | | | | | |
| Metal | 198 | 49 | 697 | 665 | 610 |
| Spain | | | | | |
| Metal | 1 | 0 | 0 | 0 | 0 |
| Sweden | | | | | |
| Oxide | 54 | 78 | 120 | 139 | 140 |
| United Kingdom | | | | | |
| Metal | 87 | 114 | 187 | 27 | 79 |

Imports of cadmium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|-------|-------|
| Belgium-Luxembourg | | | | | |
| Metal | 7 828 | 5 121 | 4 914 | 4 064 | 4 779 |
| Sulphide | 46 | 4 | 18 | — | 29 |
| Czech Republic | | | | | |
| Sulphide | 36 | 11 | 20 | 19 | 21 |
| France | | | | | |
| Metal | 1 488 | 1 682 | 1 248 | 1 465 | 2 114 |
| Oxide | 1 032 | 910 | 839 | 743 | 584 |
| Sulphide | 7 | 82 | 20 | 5 802 | 6 |
| Germany | | | | | |
| Metal | 8 | 8 | 11 | 39 | 16 |
| Oxide | 149 | 152 | 143 | 139 | 231 |
| Sulphide | 11 | 8 | 8 | 6 | 18 |
| Italy | | | | | |
| Metal | 45 | 46 | 48 | 87 | 72 |
| Oxide | 76 | 95 | 62 | 96 | 55 |
| Netherlands | | | | | |
| Metal | 544 | ... | 357 | 284 | 233 |
| Poland | | | | | |
| Oxide | 4 | 38 | ... | ... | ... |
| Spain | | | | | |
| Metal | 94 | 4 | 23 | 22 | 2 |
| Oxide | 56 | 70 | 29 | 28 | 53 |
| Sweden | | | | | |
| Metal | 65 | 150 | 402 | 330 | 282 |
| Oxide | 10 | — | 26 | 71 | 35 |
| Switzerland | | | | | |
| Metal | 7 | 6 | 4 | 30 | 5 |
| Turkey | | | | | |
| Metal | 9 | 14 | 12 | 6 | 2 |
| Oxide | 28 | ... | ... | ... | ... |
| United Kingdom | | | | | |
| Metal | 942 | 225 | 416 | 479 | 206 |

Cadmium metal – EU31 trade in 2005

Cement

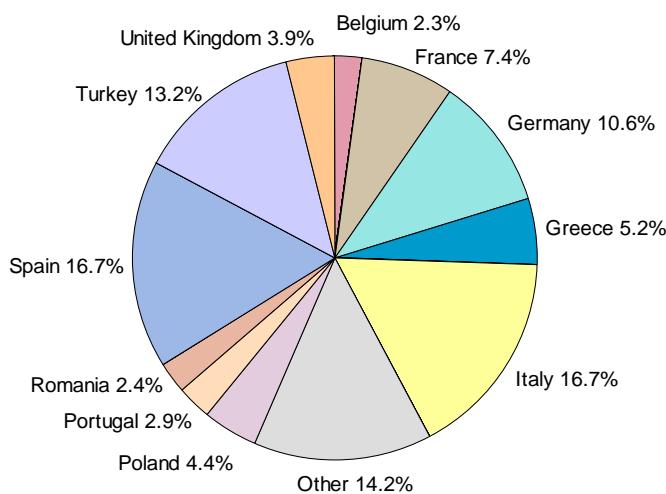
- Cement is a manufactured product and is the essential basis of concrete and mortar. Its chief raw materials are limestone or chalk and clay/mudstone. In Europe it is the largest use of limestone after crushed rock aggregate.
- Cement is made by firing a mixture of limestone and clay in a kiln to produce 'cement clinker'. This is a mixture of calcium silicates and calcium aluminates, which is finely ground with the addition of 5% gypsum/anhydrite to produce finished cement. Cement plants are nearly always sited at the limestone quarry.
- In the EU31, Germany (22%) and France (15%) are the largest producers of cement clinker. There is significant international trade in both clinker and finished cement.

Production of cement clinker

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Austria | ... | ... | ... | ... | 80 288 |
| Belgium | 1 121 656 | 1 301 790 | ... | ... | ... |
| Cyprus | ... | 212 459 | 56 034 | 68 865 | 37 891 |
| Czech Republic | 2 441 353 | 2 102 275 | ... | ... | ... |
| Denmark | 102 571 | 152 636 | 61 909 | 52 758 | 42 691 |
| France | 16 503 000 | 16 479 000 | 16 313 000 | 17 157 000 | 17 332 000 |
| Germany | 24 523 000 | 20 120 000 | 21 513 000 | 26 281 000 | 24 315 000 |
| Greece | 13 210 781 | 8 947 394 | ... | ... | ... |
| Italy | 30 893 082 | 30 770 167 | 32 077 055 | 33 048 546 | ... |
| Latvia | *200 000 | *200 000 | *200 000 | 250 000 | ... |
| Luxembourg | 844 000 | 895 000 | 770 000 | 847 000 | 834 000 |
| Netherlands | ... | 900 000 | 800 000 | 825 000 | ... |
| Poland | 9 335 062 | 8 811 639 | 8 647 397 | 9 620 601 | 9 468 410 |
| Portugal | ... | ... | 845 594 | 1 082 678 | 1 629 687 |
| Sweden | 2 421 693 | 2 364 724 | 2 235 138 | 2 385 509 | *2 400 000 |
| United Kingdom | 10 183 000 | 10 327 000 | 10 146 000 | 10 402 000 | 10 074 000 |
| EU31 Total | 113 800 000 | 104 500 000 | 106 100 000 | 114 500 000 | 112 700 000 |

EU31 Production of finished cement 2005



Production of finished cement

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|----------------|---------------|----------------|----------------|----------------|
| Austria | 3 863 000 | 3 967 000 | *4 000 000 | 4 040 000 | 4 739 768 |
| Belgium | 7 241 000 | 7 103 000 | 6 553 000 | 6 216 000 | 6 587 000 |
| Bulgaria | 2 088 000 | 2 137 000 | 2 100 000 | 2 100 000 | 2 100 000 |
| Cyprus | 1 368 800 | 1 438 160 | 1 636 879 | 1 688 917 | 1 834 645 |
| Czech Republic | 3 590 689 | 3 249 155 | 3 502 103 | 3 828 677 | 3 978 056 |
| Denmark | 2 575 512 | 2 544 868 | 2 580 427 | 2 892 831 | 2 880 554 |
| Estonia | 404 600 | 465 900 | 506 200 | 614 600 | 726 000 |
| Finland (a) | 1 324 705 | 1 198 423 | 1 186 000 | 1 295 000 | 1 347 000 |
| France | 19 839 000 | 19 437 000 | 19 655 000 | 20 962 000 | 21 277 000 |
| Germany | 32 600 000 | 31 200 000 | 33 400 000 | 32 000 000 | 30 600 000 |
| Greece | 15 562 654 | *15 500 000 | (c) 17 546 281 | (c) 14 761 437 | (c) 14 830 944 |
| Hungary | 3 452 000 | 3 510 000 | 3 573 000 | 3 349 000 | 3 371 000 |
| Irish Republic | 2 600 000 | 2 500 000 | 2 500 000 | *2 500 000 | *2 500 000 |
| Italy | 40 190 597 | 41 722 254 | 43 580 047 | 45 342 868 | *48 000 000 |
| Latvia | *300 000 | 260 397 | 295 205 | 283 645 | 280 000 |
| Lithuania | 529 193 | 605 784 | 596 857 | 753 069 | 832 076 |
| Luxembourg | 726 000 | 729 000 | 709 000 | 797 000 | 767 000 |
| Netherlands | 3 380 000 | 3 080 000 | 2 450 000 | 2 380 000 | *2 400 000 |
| Norway | 1 870 000 | 1 850 000 | 1 860 000 | 1 870 000 | ... |
| Poland | 12 069 941 | 11 206 439 | 11 653 448 | 12 837 083 | 12 646 223 |
| Portugal | (b) 10 162 310 | (c) 9 760 964 | (c) 8 485 826 | (c) 8 764 316 | (c) 8 279 418 |
| Romania | 5 702 000 | 5 679 776 | 5 991 962 | 6 238 584 | 7 032 100 |
| Slovakia | 3 122 665 | 3 140 581 | 3 147 478 | 3 158 308 | 3 498 685 |
| Slovenia | 1 237 000 | 1 178 000 | 1 370 000 | 1 186 000 | 1 200 000 |
| Spain | 40 512 090 | 42 417 253 | 44 746 757 | 46 595 560 | *48 000 000 |
| Sweden | 2 644 365 | 2 764 954 | 2 544 647 | 2 712 810 | 2 731 000 |
| Switzerland | 3 920 000 | 3 771 000 | 3 700 000 | 3 800 000 | 3 900 000 |
| Turkey | 30 125 000 | 32 576 701 | 35 076 902 | 38 019 112 | *38 000 000 |
| United Kingdom | 11 090 000 | 11 089 000 | 11 215 000 | 11 405 000 | 11 216 000 |
| EU31 Total | 264 100 000 | 266 100 000 | 276 200 000 | 282 400 000 | 287 400 000 |

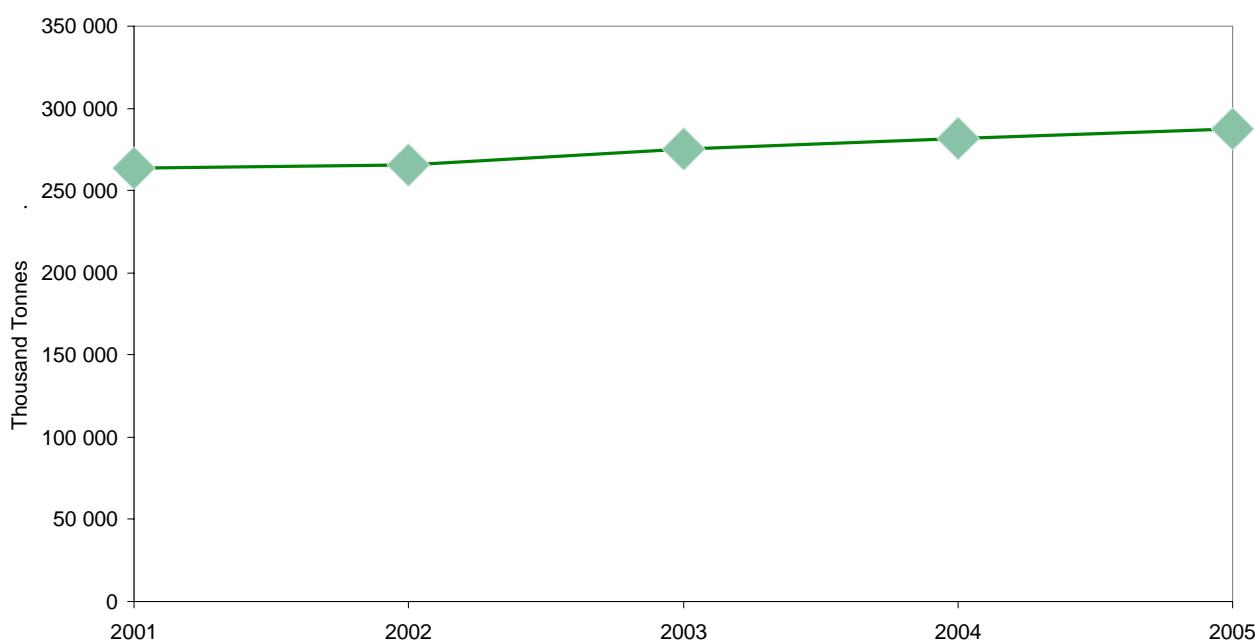
Note(s):-

(a) Sales

(b) Portland cement only

(c) Portland cement, excluding white cement

EU31 Production of finished cement 2001 - 05



Cement

Exports of cement

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|--------------|--------------|--------------|
| Austria | | | | | |
| Cement clinkers | 60 212 | 47 401 | 54 375 | 58 262 | 32 877 |
| Portland cement | 118 822 | 97 600 | 136 732 | 185 069 | 151 330 |
| Other cement | 19 896 | 27 365 | 42 712 | 40 830 | 53 951 |
| Belgium-Luxembourg | | | | | |
| Cement clinkers | 1 111 745 | 767 780 | 749 249 | 842 257 | 833 257 |
| Portland cement | 1 432 246 | 1 854 749 | 1 815 882 | 1 598 742 | 1 715 979 |
| Other cement | 840 274 | 687 836 | 592 657 | 616 066 | 612 642 |
| Bulgaria | | | | | |
| Cement clinkers | 397 914 | 435 202 | 602 632 | 392 414 | 338 505 |
| Portland cement | 643 158 | 485 972 | 568 083 | 460 281 | 455 824 |
| Other cement | 240 | 2 729 | 22 625 | ... | ... |
| Cyprus | | | | | |
| Cement clinkers | 96 709 | 245 656 | 200 461 | 31 215 | 37 891 |
| Portland cement | 316 758 | 201 542 | 196 173 | 146 669 | 219 460 |
| Czech Republic | | | | | |
| Cement clinkers | 213 960 | 77 171 | 44 410 | 91 626 | 29 169 |
| Portland cement | 618 868 | 350 341 | 506 588 | 576 531 | 526 784 |
| Other cement | 33 244 | 38 341 | 11 476 | 3 216 | 34 046 |
| Denmark | | | | | |
| Cement clinkers | 101 949 | 97 886 | 65 962 | 85 967 | 54 542 |
| Portland cement | 1 220 484 | 1 259 988 | 1 164 923 | 1 127 638 | 1 235 477 |
| Other cement | 17 458 | 12 697 | 11 947 | 13 535 | 13 118 |
| Estonia | | | | | |
| Cement clinkers | 277 012 | 163 887 | 157 353 | 113 105 | 97 442 |
| Portland cement | 183 156 | 176 923 | 172 223 | 209 168 | 225 729 |
| Finland | | | | | |
| Portland cement | 872 | 633 | 837 | 11 449 | 3 367 |
| France | | | | | |
| Cement clinkers | 491 760 | 555 646 | 479 952 | 460 364 | 310 228 |
| Portland cement | 686 872 | 549 756 | 604 494 | 785 100 | 792 192 |
| Other cement | 120 320 | 157 945 | 144 523 | 112 828 | 102 222 |
| Germany | | | | | |
| Cement clinkers | 718 285 | 411 711 | 1 001 024 | 868 384 | 773 394 |
| Portland cement | 1 959 481 | 2 083 433 | 2 472 418 | 3 496 157 | 3 587 966 |
| Other cement | 1 084 249 | 1 226 979 | 1 196 558 | 1 580 315 | 1 876 289 |
| Greece | | | | | |
| Cement clinkers | 549 377 | 400 700 | 742 540 | 257 136 | 304 750 |
| Portland cement | 4 165 718 | 2 312 090 | 2 507 359 | 2 679 607 | 3 502 085 |
| Other cement | 221 294 | 142 068 | 110 674 | 170 640 | 242 957 |
| Hungary | | | | | |
| Cement clinkers | 44 | 125 482 | 41 006 | 78 590 | 27 328 |
| Portland cement | 492 397 | 433 217 | 440 285 | 244 276 | 274 262 |
| Irish Republic | | | | | |
| Cement clinkers | 6 447 | ... | 2 650 | ... | ... |
| Portland cement | 220 581 | 263 254 | 439 876 | 1 133 469 | 942 655 |
| Italy | | | | | |
| Cement clinkers | 99 472 | 82 835 | 55 289 | 8 965 | 19 427 |
| Portland cement | 2 078 455 | 1 940 114 | 1 816 975 | 1 903 368 | 2 379 941 |
| Other cement | 168 039 | 174 484 | 181 086 | 130 920 | 130 120 |
| Latvia | | | | | |
| Portland cement | 53 352 | 42 492 | 42 644 | 26 144 | 10 762 |
| Lithuania | | | | | |
| Portland cement | 213 851 | 224 544 | 212 730 | 247 918 | 299 782 |
| Netherlands | | | | | |
| Cement clinkers | 1 259 | 1 325 | 2 326 | 1 585 | 4 610 |
| Portland cement | 215 827 | 108 209 | 209 122 | 326 234 | 295 457 |
| Other cement | 158 864 | 86 102 | 53 743 | 30 013 | 18 513 |
| Norway | | | | | |
| Cement clinkers | 156 911 | 98 557 | (a) *109 000 | (a) *108 000 | (a) *179 000 |
| Portland cement | 506 741 | 558 861 | (a) *724 000 | ... | ... |
| Poland | | | | | |
| Cement clinkers | 2 894 | 6 461 | 87 470 | 226 981 | 256 621 |
| Portland cement | 757 302 | 370 832 | 262 290 | 341 112 | 460 479 |
| Other cement | 134 130 | 98 766 | 7 406 | 7 059 | 49 970 |

Cement

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| Portugal | | | | | |
| Cement clinkers | ... | 41 626 | 117 332 | 148 984 | 1 271 578 |
| Portland cement | 35 442 | 59 628 | 114 182 | 286 819 | 1 110 739 |
| Other cement | 5 109 | 5 815 | 6 081 | 13 267 | 17 301 |
| Romania | | | | | |
| Cement clinkers | 512 590 | 572 684 | 360 639 | 669 204 | 465 660 |
| Portland cement | 1 133 414 | 1 020 819 | 963 978 | 701 686 | 739 215 |
| Slovakia | | | | | |
| Cement clinkers | 3 848 | 9 501 | 27 695 | 4 768 | 26 549 |
| Portland cement | 1 697 104 | 1 584 379 | 1 476 998 | 1 470 728 | 1 433 926 |
| Other cement | 58 301 | 18 992 | 15 958 | 24 408 | 44 670 |
| Slovenia | | | | | |
| Cement clinkers | ... | 2 163 | 7 589 | 18 577 | 58 765 |
| Portland cement | 184 683 | 171 993 | 166 323 | 101 842 | 56 776 |
| Other cement | ... | ... | ... | 16 154 | 63 732 |
| Spain | | | | | |
| Cement clinkers | 6 538 | 45 657 | 18 350 | 9 491 | 13 259 |
| Portland cement | 1 713 277 | 1 700 683 | 1 585 078 | 1 681 953 | 1 713 572 |
| Other cement | 94 252 | 92 852 | 100 272 | 59 696 | 51 340 |
| Sweden | | | | | |
| Portland cement | 1 241 183 | 1 285 376 | 1 064 305 | 867 450 | 1 295 834 |
| Other cement | 2 341 | 1 469 | 2 818 | 2 492 | 2 555 |
| Switzerland | | | | | |
| Cement clinkers | 123 026 | 130 261 | 106 617 | 106 263 | 121 014 |
| Portland cement | 20 968 | 12 942 | 14 396 | 33 524 | 46 939 |
| Turkey | | | | | |
| Cement clinkers | 3 275 087 | 4 546 480 | 2 898 730 | 2 359 071 | 2 893 665 |
| Portland cement | 4 968 305 | 5 803 964 | 6 749 791 | 7 907 130 | 6 713 088 |
| Other cement | 33 163 | 25 296 | 96 793 | 147 792 | 261 816 |
| United Kingdom | | | | | |
| Cement clinkers | 169 344 | 160 704 | 60 920 | 82 936 | 134 992 |
| Portland cement | 229 573 | 305 801 | 216 480 | 214 420 | 320 680 |
| Other cement | 81 441 | 66 163 | 61 193 | 76 517 | 68 554 |

Note(s):-

(a) BGS estimates, based on known imports into certain countries

Imports of cement

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|---------|-----------|-----------|-----------|
| Austria | | | | | |
| Cement clinkers | 314 407 | 314 864 | 444 535 | 443 956 | 532 745 |
| Portland cement | 717 691 | 804 924 | 763 455 | 773 897 | 860 087 |
| Other cement | 29 489 | 18 597 | 17 434 | 51 811 | 43 083 |
| Belgium-Luxembourg | | | | | |
| Cement clinkers | 133 317 | 64 453 | 256 355 | 553 911 | 442 986 |
| Portland cement | 809 758 | 795 844 | 846 044 | 956 062 | 898 871 |
| Other cement | 159 414 | 187 371 | 292 756 | 314 515 | 275 177 |
| Bulgaria | | | | | |
| Cement clinkers | ... | 3 088 | 3 815 | 23 048 | 180 254 |
| Portland cement | 7 864 | 7 491 | 33 810 | 51 493 | 23 787 |
| Other cement | ... | ... | ... | 920 | 1 128 |
| Cyprus | | | | | |
| Cement clinkers | 5 550 | 17 144 | 74 627 | 28 622 | 43 375 |
| Portland cement | 1 636 | 2 926 | 2 496 | 2 092 | 2 339 |
| Czech Republic | | | | | |
| Cement clinkers | 147 | 6 792 | 76 152 | 167 711 | 95 108 |
| Portland cement | 1 278 439 | 748 672 | 1 044 234 | 1 105 823 | 1 027 011 |
| Other cement | 104 981 | 83 286 | 28 197 | 24 799 | 38 434 |
| Denmark | | | | | |
| Cement clinkers | 10 | 4 033 | 23 222 | 22 506 | 31 634 |
| Portland cement | 238 654 | 274 440 | 185 757 | 187 982 | 230 842 |
| Other cement | 33 903 | 29 067 | 30 501 | 33 913 | 36 753 |
| Cement | | | | | |

Imports continued

tonnes

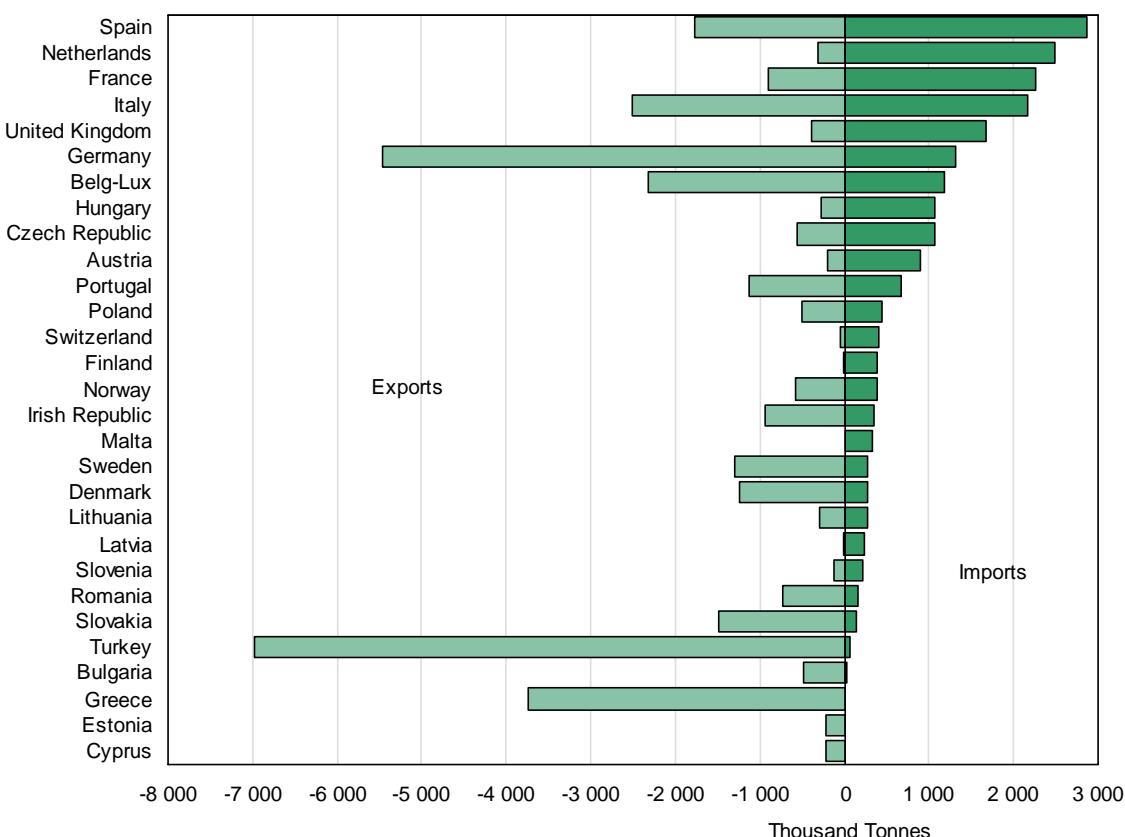
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| Estonia | | | | | |
| Cement clinkers | ... | ... | ... | ... | 21 219 |
| Portland cement | 44 989 | 31 847 | 36 438 | 16 827 | 3 311 |
| Other cement | 572 | 451 | 634 | ... | ... |
| Finland | | | | | |
| Cement clinkers | 95 591 | 7 265 | 67 297 | 28 129 | 17 594 |
| Portland cement | 333 868 | 382 160 | 438 363 | 423 958 | 383 260 |
| Other cement | 8 722 | 8 669 | 9 654 | 9 344 | 13 211 |
| France | | | | | |
| Cement clinkers | 919 175 | 852 287 | 793 933 | 865 213 | 946 642 |
| Portland cement | 1 104 447 | 1 114 553 | 1 090 120 | 1 114 684 | 1 271 478 |
| Other cement | 926 599 | 1 190 848 | 1 123 098 | 927 157 | 984 597 |
| Germany | | | | | |
| Cement clinkers | 494 930 | 523 967 | 325 302 | 370 454 | 289 600 |
| Portland cement | 2 003 309 | 1 197 165 | 906 718 | 1 002 404 | 934 865 |
| Other cement | 413 249 | 321 014 | 277 349 | 343 597 | 380 858 |
| Greece | | | | | |
| Portland cement | 79 052 | 56 424 | 302 | 1 754 | 425 |
| Other cement | 2 989 | 2 628 | 3 322 | 3 497 | 4 548 |
| Hungary | | | | | |
| Portland cement | 401 168 | 303 249 | 342 107 | 451 613 | 565 366 |
| Other cement | 174 362 | 466 700 | 536 445 | 579 735 | 508 067 |
| Irish Republic | | | | | |
| Cement clinkers | 66 661 | 56 199 | 88 669 | 226 116 | 245 955 |
| Portland cement | 430 990 | 373 759 | 259 703 | 281 044 | 335 055 |
| Other cement | 3 092 | 2 968 | 4 105 | 9 132 | 8 958 |
| Italy | | | | | |
| Cement clinkers | 1 018 494 | 1 777 159 | 2 322 710 | 2 720 499 | 2 828 906 |
| Portland cement | 1 915 641 | 1 796 508 | 2 033 657 | 2 130 079 | 2 014 905 |
| Other cement | 314 706 | 304 329 | 168 008 | 146 033 | 152 325 |
| Latvia | | | | | |
| Cement clinkers | 3 255 | ... | ... | ... | 38 589 |
| Portland cement | 87 609 | 112 025 | 138 488 | 204 353 | 234 862 |
| Lithuania | | | | | |
| Cement clinkers | ... | 14 459 | ... | 22 496 | ... |
| Portland cement | 88 783 | 128 201 | 206 317 | 183 712 | 265 103 |
| Malta | | | | | |
| Portland cement | 260 812 | 275 627 | 275 736 | 179 533 | 334 107 |
| Netherlands | | | | | |
| Cement clinkers | 706 124 | 52 231 | 679 330 | 581 267 | 388 146 |
| Portland cement | 1 551 824 | 370 170 | 1 614 917 | 1 812 884 | 1 632 872 |
| Other cement | 934 043 | 229 933 | 826 513 | 774 050 | 846 622 |
| Norway | | | | | |
| Portland cement | 192 678 | 186 529 | 188 442 | 236 622 | 373 788 |
| Other cement | 7 224 | 5 549 | 5 026 | 10 738 | 12 319 |
| Poland | | | | | |
| Cement clinkers | 251 458 | 66 800 | 70 207 | 13 746 | 33 673 |
| Portland cement | 328 347 | 630 256 | 699 379 | 540 342 | 444 855 |
| Other cement | 17 313 | 23 531 | 16 352 | 2 323 | 5 537 |
| Portugal | | | | | |
| Cement clinkers | 917 322 | 5 421 | 7 715 | 8 775 | 17 084 |
| Portland cement | 1 497 434 | 1 485 581 | 1 225 167 | 1 066 969 | 669 272 |
| Other cement | 17 671 | 11 842 | 50 576 | 65 793 | 10 479 |
| Romania | | | | | |
| Portland cement | 9 680 | 20 478 | 123 332 | 228 506 | 167 686 |
| Slovakia | | | | | |
| Cement clinkers | 0 | — | 34 550 | 33 021 | 68 894 |
| Portland cement | 80 356 | 82 114 | 113 926 | 85 834 | 88 403 |
| Other cement | 2 629 | 2 320 | 3 379 | 19 636 | 49 619 |
| Slovenia | | | | | |
| Cement clinkers | 21 066 | 16 279 | 95 002 | 61 151 | 1 343 |
| Portland cement | 174 690 | 150 749 | 205 345 | 219 779 | 215 513 |
| Other cement | 1 254 | 1 272 | 1 440 | 112 | 2 861 |
| Spain | | | | | |
| Cement clinkers | 3 975 430 | 4 646 090 | 5 897 219 | 6 266 470 | 7 852 531 |
| Portland cement | 2 960 674 | 3 155 122 | 2 606 300 | 2 549 086 | 2 845 856 |
| Other cement | 200 370 | 36 947 | 54 726 | 21 527 | 20 031 |
| | | | | | Cement |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| Sweden | | | | | |
| Portland cement | 210 732 | 208 113 | 209 882 | 218 928 | 242 326 |
| Other cement | 25 186 | 25 151 | 27 286 | 27 286 | 34 597 |
| Switzerland | | | | | |
| Cement clinkers | 156 910 | 146 388 | 47 050 | 64 882 | 71 542 |
| Portland cement | 180 860 | 198 607 | 319 539 | 313 292 | 352 409 |
| Other cement | 86 391 | 56 272 | 41 949 | 58 671 | 48 309 |
| Turkey | | | | | |
| Cement clinkers | 143 225 | 7 117 | 170 275 | 375 619 | 567 256 |
| Portland cement | 27 109 | 19 014 | 9 922 | 9 096 | 66 260 |
| Other cement | 5 914 | 5 800 | 3 675 | 105 | 4 693 |
| United Kingdom | | | | | |
| Cement clinkers | 387 306 | 289 685 | 506 128 | 377 341 | 406 044 |
| Portland cement | 1 179 521 | 2 142 589 | 1 714 946 | 2 033 772 | 1 645 088 |
| Other cement | 52 411 | 61 327 | 61 131 | 64 289 | 37 705 |

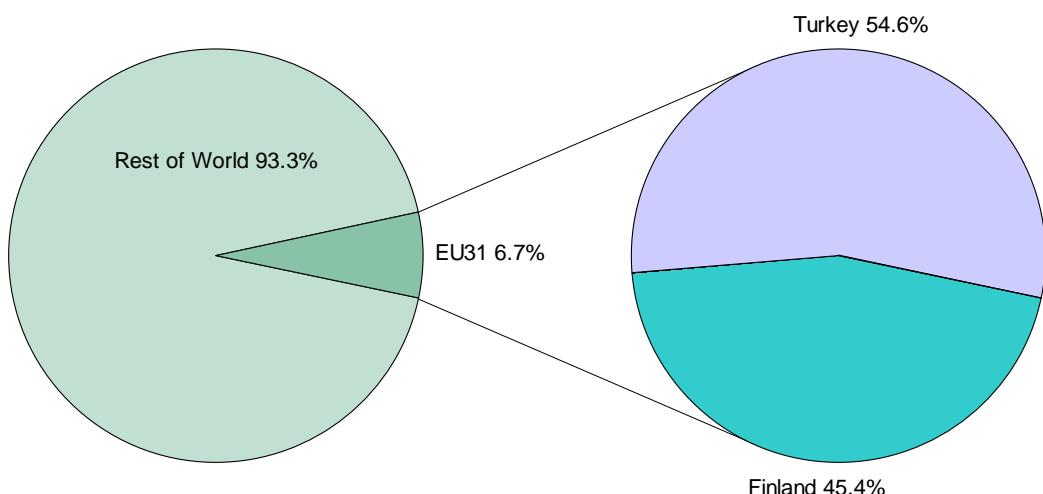
Cement – EU31 trade in 2005



Chromium ores and concentrates

- Chromium is a hard metallic element that is an essential component of stainless steel and other alloy steels, where it is used in the form of the alloy ferro-chromium. It is also used extensively in superalloys and metal plating. Its compounds are important pigments and the natural mineral chromite is used in refractories.
- World production is dominated by South Africa, India and Kazakhstan which together produced 77% of world chromium in 2005. Finland and Turkey are the only countries in Europe with significant chromium production.
- The price of chromite in 2005 ranged from \$170–\$195/tonne, depending on grade. The price of ferrochromium continued to rise in 2005 before leveling off and decreasing toward the end of the year largely due to reduced stainless steel production in the second half of 2005. Ferro-chrome traded at \$0.60–\$0.81/lb, depending on type; the price of chromium metal increased from 2004 trading in the range of \$5300/tonne–\$7000/tonne (alumino-thermic, min. 99% in warehouse) during 2005.

EU31 Production of chromium ores and concentrates 2005



Production of chromium ores and concentrates

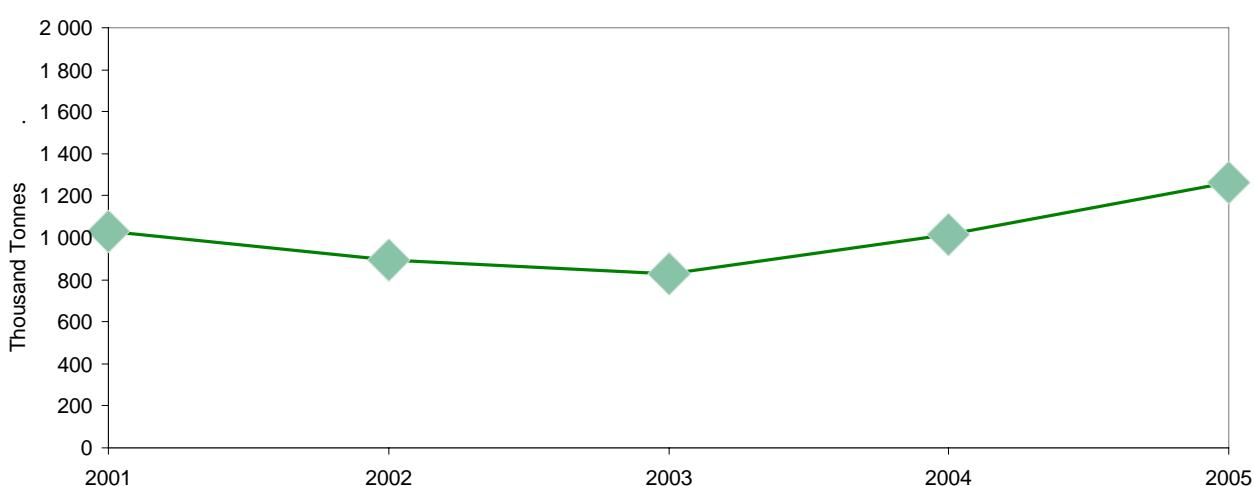
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|-----------|---------|---------|-----------|-----------|
| Finland | 575 126 | 566 090 | 549 000 | 580 000 | 572 000 |
| Turkey | 454 549 | 326 390 | 281 783 | 436 639 | 688 377 |
| EU31 Total | 1 030 000 | 892 000 | 831 000 | 1 017 000 | 1 260 000 |

Note(s):-

(1) In addition to the countries listed, Bulgaria is believed to produce chromite

EU31 Production of chromium ores and concentrates 2001 - 05



Exports of chromium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Ores & concentrates | 647 | 896 | 1 155 | 392 | 276 |
| Metal | 2 858 | 4 506 | 5 485 | 7 194 | 8 893 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 17 051 | 9 510 | 5 491 | 2 433 | 10 777 |
| Metal | 318 | 262 | 660 | 852 | 782 |
| Czech Republic | | | | | |
| Metal | 1 | 88 | 338 | 364 | 109 |
| Denmark | | | | | |
| Metal | 964 | 496 | 521 | 661 | 703 |
| Estonia | | | | | |
| Metal | 200 | 12 | 148 | ... | ... |
| Finland | | | | | |
| Ores & concentrates | 354 | 281 | 612 | 708 | 841 |
| France | | | | | |
| Ores & concentrates | 2 129 | 2 835 | 2 879 | 2 928 | 2 340 |
| Metal | 6 634 | 5 056 | 4 498 | 7 182 | 8 074 |
| Germany | | | | | |
| Ores & concentrates | 6 771 | 11 760 | 3 666 | 12 691 | 14 188 |
| Metal | 225 | 762 | 2 096 | 1 256 | 1 478 |
| Greece | | | | | |
| Ores & concentrates | 5 067 | ... | ... | 21 | 249 |
| Italy | | | | | |
| Ores & concentrates | 5 558 | 3 014 | 2 638 | 3 803 | 4 673 |
| Metal | 815 | 407 | 1 993 | 4 184 | 1 070 |
| Netherlands | | | | | |
| Ores & concentrates | 58 219 | 46 386 | 52 636 | 58 623 | 72 062 |
| Metal | 812 | 1 282 | 1 817 | 2 655 | 3 543 |
| Norway | | | | | |
| Metal | 3 | 13 | 141 | 413 | 116 |
| Poland | | | | | |
| Ores & concentrates | 145 | 1 533 | ... | 117 | 25 |
| Metal | 140 | 73 | 181 | 0 | 1 |
| Slovakia | | | | | |
| Metal | 2 869 | 2 511 | 2 289 | 2 362 | 1 876 |
| Spain | | | | | |
| Ores & concentrates | 678 | 1 040 | 947 | 2 113 | 1 314 |
| Metal | 1 569 | 2 679 | 1 126 | 905 | 709 |
| Sweden | | | | | |
| Metal | ... | ... | ... | ... | 55 |
| Switzerland | | | | | |
| Metal | 156 | 31 | 66 | 319 | 249 |
| Turkey | | | | | |
| Ores & concentrates | 321 047 | 265 296 | 363 699 | 575 030 | 834 034 |
| Metal | 279 | 249 | 20 | 33 | 238 |
| United Kingdom | | | | | |
| Ores & concentrates | 170 | 26 | 212 | 622 | 228 |
| Metal | 4 609 | 3 837 | 4 173 | 4 776 | 4 547 |

Note(s):-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Imports of chromium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|--------|--------|--------|--------|
| Austria | | | | | |
| Ores & concentrates | 37 321 | 28 384 | 36 348 | 26 761 | 21 398 |
| Metal | 1 713 | 1 808 | 2 337 | 3 731 | 4 440 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 5 789 | 4 179 | 4 644 | 6 094 | 18 464 |
| Metal | 629 | 664 | 765 | 821 | 1 245 |
| Croatia | | | | | |
| Ores & concentrates | 908 | 287 | 341 | 459 | 537 |
| Metal | 6 | 160 | 200 | 279 | 54 |

Chromium

Imports continued

tonnes

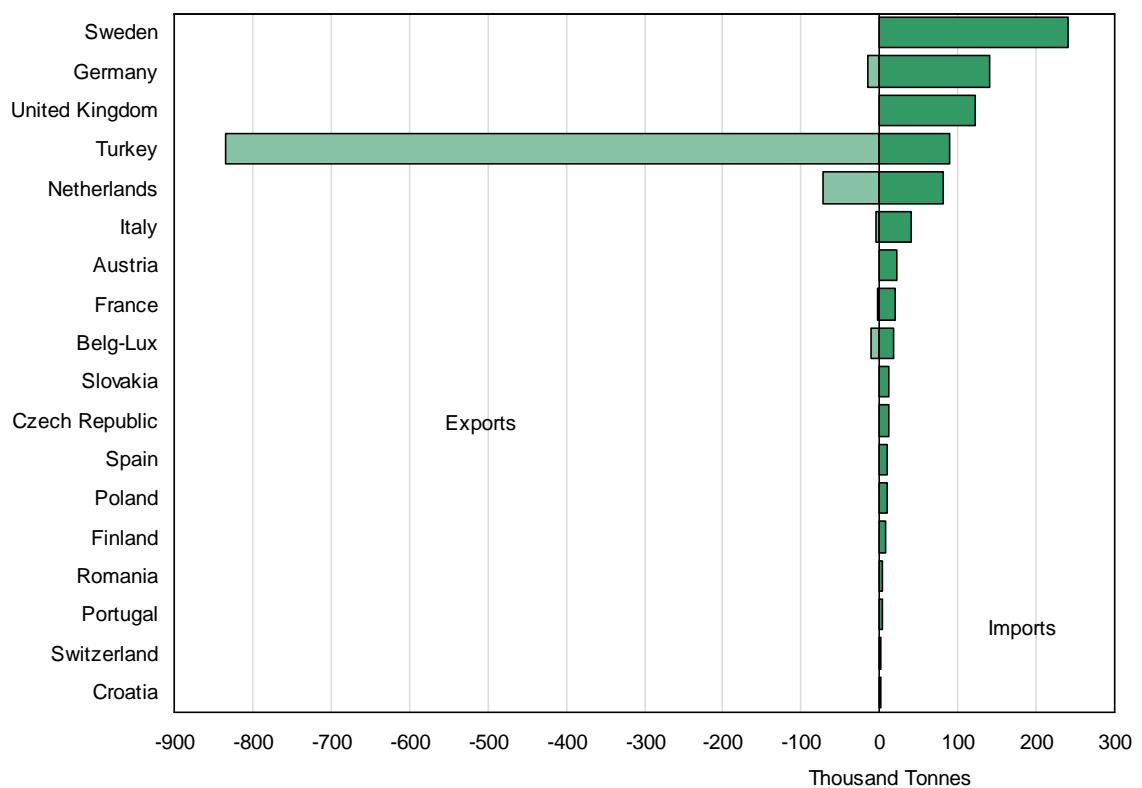
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|----------|---------|---------|---------|---------|
| Czech Republic | | | | | |
| Ores & concentrates | 15 054 | 11 655 | 10 674 | 11 365 | 12 440 |
| Metal | 12 | 14 | 66 | 60 | 149 |
| Denmark | | | | | |
| Ores & concentrates | 512 | 1 496 | 920 | 614 | 53 |
| Metal | 19 | 63 | 106 | 90 | 53 |
| Estonia | | | | | |
| Metal | 204 | 0 | 140 | 8 | 23 |
| Finland | | | | | |
| Ores & concentrates | 7 174 | 4 294 | 6 050 | 6 092 | 6 962 |
| Metal | 174 | 87 | 190 | 164 | 258 |
| France | | | | | |
| Ores & concentrates | 26 693 | 22 534 | 22 917 | 19 770 | 18 980 |
| Metal | 699 | 782 | 677 | 1 323 | 669 |
| Germany | | | | | |
| Ores & concentrates | 130 485 | 114 806 | 126 278 | 128 886 | 141 483 |
| Metal | 2 257 | 3 291 | 4 063 | 5 599 | 5 428 |
| Greece | | | | | |
| Ores & concentrates | 231 | 360 | 218 | 122 | 477 |
| Hungary | | | | | |
| Ores & concentrates | 549 | 651 | 593 | 367 | 388 |
| Metal | 85 | 65 | 82 | 68 | 0 |
| Irish Republic | | | | | |
| Metal | 26 | 19 | 27 | 25 | 40 |
| Italy | | | | | |
| Ores & concentrates | 82 769 | 56 835 | 26 802 | 30 872 | 39 999 |
| Metal | 549 | 544 | 520 | 677 | 958 |
| Netherlands | | | | | |
| Ores & concentrates | 73 730 | 62 992 | 52 353 | 88 660 | 80 622 |
| Metal | 1 359 | 562 | 310 | 612 | 1 838 |
| Norway | | | | | |
| Ores & concentrates (a) | *176 000 | *51 000 | *600 | *400 | *500 |
| Metal | 89 | 53 | 47 | 88 | 92 |
| Poland | | | | | |
| Ores & concentrates | 26 128 | 8 461 | 10 977 | 13 053 | 9 391 |
| Metal | 20 | 18 | 29 | 242 | 54 |
| Portugal | | | | | |
| Ores & concentrates | 2 569 | 2 334 | 2 062 | 1 547 | 2 599 |
| Romania | | | | | |
| Ores & concentrates | 2 405 | 3 869 | 2 701 | 2 562 | 2 828 |
| Slovakia | | | | | |
| Metal | 22 | 60 | 70 | 58 | 245 |
| Slovenia | | | | | |
| Ores & concentrates | 28 803 | 16 766 | 12 624 | 24 479 | 12 475 |
| Metal | 58 | 103 | 179 | 2 | 55 |
| Spain | | | | | |
| Ores & concentrates | 722 | 451 | 340 | 406 | 446 |
| Metal | 18 | 10 | 26 | 31 | 122 |
| Sweden | | | | | |
| Ores & concentrates | 9 141 | 2 585 | 5 799 | 3 947 | 10 262 |
| Metal | 1 202 | 666 | 921 | 1 519 | 1 308 |
| Switzerland | | | | | |
| Ores & concentrates | 200 000 | 280 000 | 215 000 | 457 000 | 240 000 |
| Metal | 1 275 | 1 265 | 823 | 1 903 | 1 150 |
| Turkey | | | | | |
| Ores & concentrates | 818 | 525 | 716 | 671 | 624 |
| Metal | 112 | 116 | 110 | 141 | 127 |
| United Kingdom | | | | | |
| Ores & concentrates | 101 278 | 68 832 | 82 452 | 56 836 | 89 844 |
| Metal | 12 | 19 | 19 | 85 | 26 |

Note(s) :-

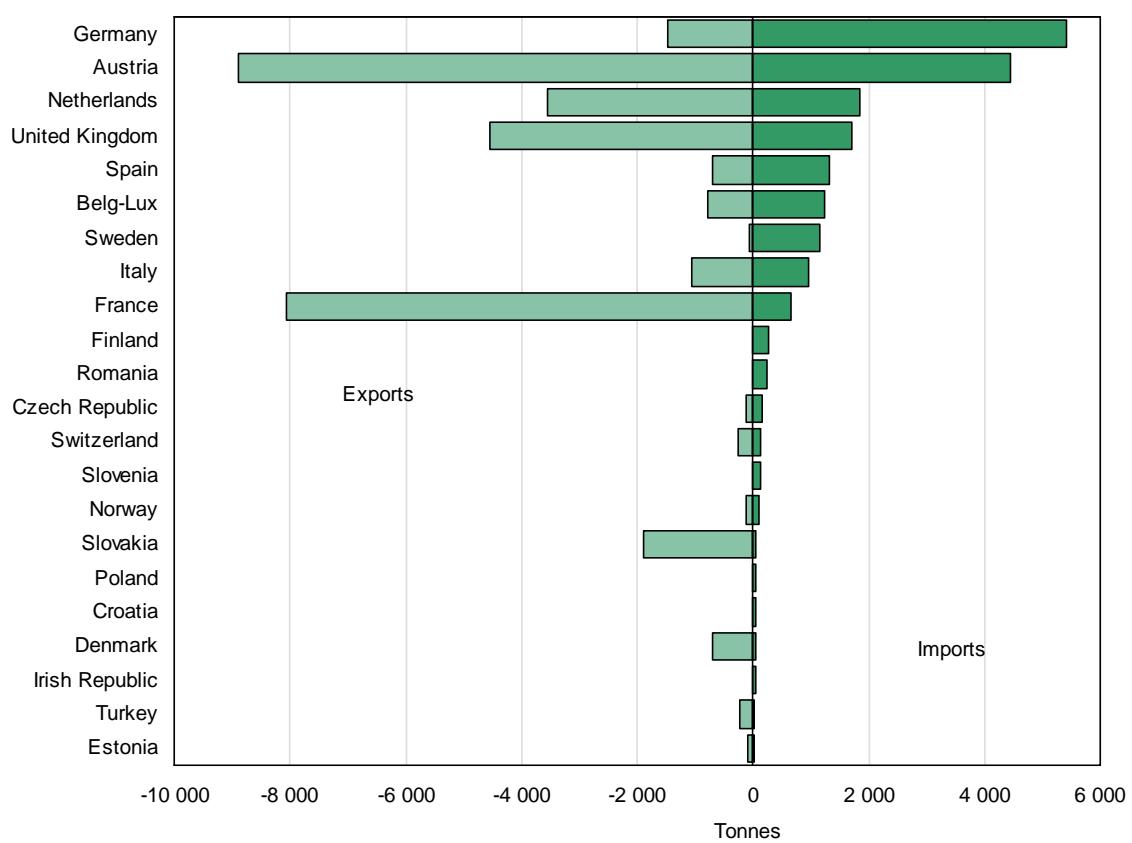
(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) BGS estimates, based on known exports from certain countries

Chromium ores and concentrates – EU31 trade in 2005



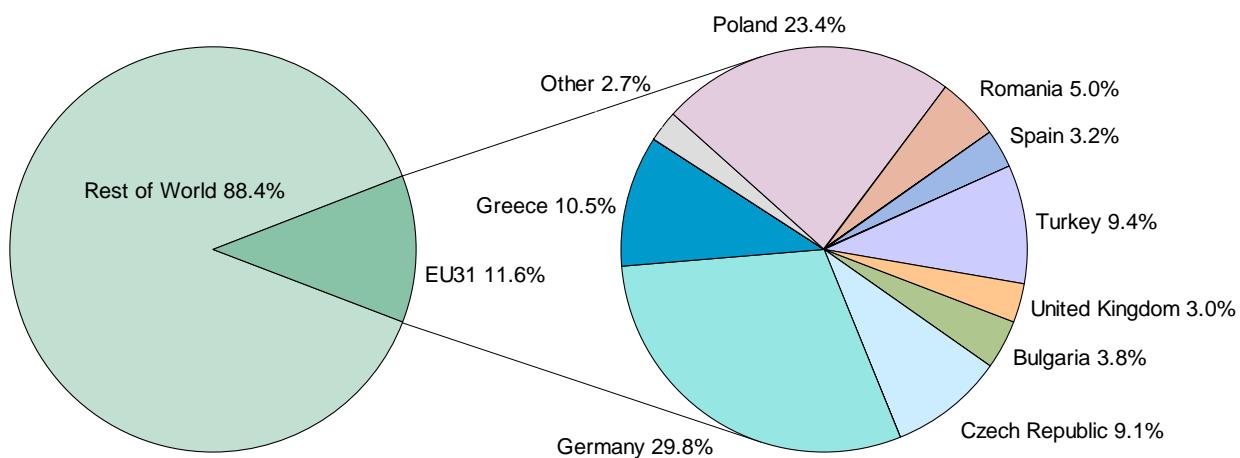
Chromium metal – EU31 trade in 2005



Coal

- Coal is a combustible rock, composed of lithified plant remains. It is an important source of energy throughout the world.
- Coal has two predominant end uses. Steam coal (or thermal coal) is burnt in power stations for electricity generation and is also used for other domestic and industrial purposes. Coking coal, which commands a higher price, is used in the steel industry to de-oxidise iron ore in the blast furnace. Both black coal (anthracite+bituminous) and brown coal (lignite) are used as steam coal; only bituminous coal is used as coking coal.
- In 2005 the EU31 countries produced 12% of the world's coal (all types) of which more than half was contributed by Germany and Poland. Overall production fell by 21.9 million tonnes (3%) between 2001 and 2005, with the UK recording a decline in production of 36%.
- Following strong price rises in recent years for internationally traded steam coal imported into Europe, prices fell back slightly in 2005 to around £32/tonne. European producers are generally able to charge above the import prices due to their proximity to power stations.

EU31 Production of coal 2005



Production of coal

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|---------------|---------------|---------------|-------------|----------------|
| Austria | | | | | |
| Anthracite & bituminous | ... | ... | ... | ... | 7 793 |
| Brown coal & lignite | (a) 1 193 970 | (a) 1 411 824 | (a) 1 152 389 | (a) 235 397 | 6 138 |
| Bulgaria | | | | | |
| Anthracite & bituminous | 115 000 | 122 000 | 53 000 | 170 000 | ... |
| Brown coal & lignite | 26 095 516 | 26 433 500 | 27 641 000 | 26 455 000 | (a) 26 200 000 |
| Czech Republic | | | | | |
| Bituminous | 14 808 000 | 14 097 000 | 13 382 000 | 14 648 000 | 12 778 000 |
| Lignite | 507 000 | 501 000 | 470 000 | 450 000 | 467 000 |
| Brown coal | 51 036 000 | 48 834 000 | 49 920 000 | 47 840 000 | 48 658 000 |
| France | | | | | |
| Anthracite & bituminous | 1 972 000 | 1 483 000 | 1 728 000 | 200 000 | — |
| Lignite | 324 000 | 147 000 | 9 000 | — | — |
| Germany | | | | | |
| Anthracite & bituminous | 27 361 079 | 26 363 084 | 25 873 043 | 25 871 882 | 24 906 867 |
| Brown coal | 175 364 780 | 181 778 432 | 179 086 923 | 181 926 060 | 177 881 773 |
| Greece | | | | | |
| Lignite | 66 621 437 | 71 087 609 | 69 410 756 | 71 237 228 | 71 700 000 |
| Hungary | | | | | |
| Bituminous | 635 200 | 660 000 | 667 126 | 280 000 | — |
| Lignite | 8 043 062 | 7 573 971 | 8 564 000 | 8 470 258 | 8 153 968 |
| Brown coal | 5 392 000 | 4 530 000 | 4 128 000 | 2 500 000 | 1 426 000 |
| Italy | | | | | |
| Lignite | 130 000 | 100 000 | ... | ... | ... |
| Norway | | | | | |
| Bituminous (b) | 1 787 784 | 2 131 691 | 2 944 000 | 3 018 500 | 1 667 000 |
| Poland | | | | | |
| Bituminous | 103 991 700 | 103 546 000 | 103 016 400 | 100 087 100 | 97 903 730 |
| Lignite | 59 557 400 | 58 209 600 | 60 919 100 | 61 197 500 | 61 636 445 |

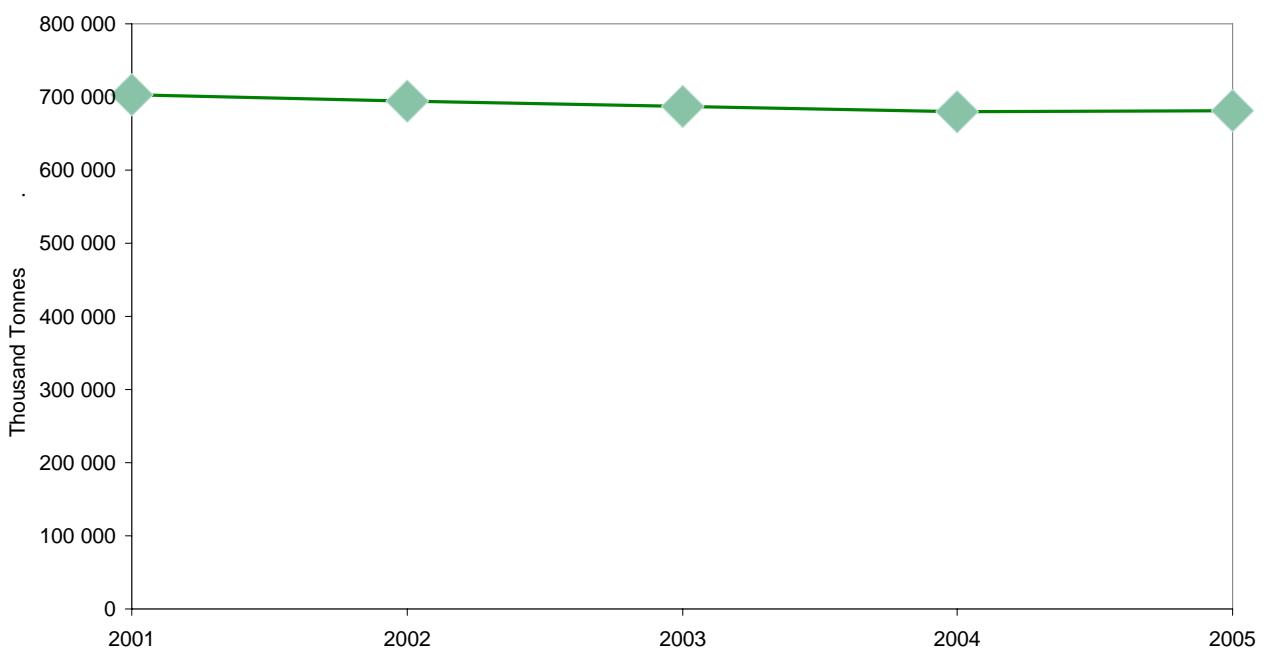
| Production continued | | | | | tonnes |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
| Romania | | | | | |
| Anthracite & bituminous | 4 033 000 | 3 976 000 | 3 309 000 | *3 000 000 | *3 000 000 |
| Brown coal & lignite | 30 750 000 | 28 015 000 | 31 121 000 | 31 792 000 | 31 122 000 |
| Slovakia | | | | | |
| Brown coal | 3 421 100 | 3 406 400 | 3 076 100 | 2 578 273 | 2 513 030 |
| Slovenia | | | | | |
| Brown coal & lignite | 4 133 000 | 4 684 710 | 4 828 786 | 4 807 302 | 4 539 556 |
| Spain | | | | | |
| Anthracite | 4 693 831 | 4 399 365 | 3 857 364 | 3 692 220 | 3 888 638 |
| Bituminous | 5 797 496 | 5 349 027 | 5 547 150 | 5 220 407 | 4 664 589 |
| Sub-bituminous | 3 456 000 | 3 537 710 | 3 182 572 | 3 426 001 | 5 854 014 |
| Lignite | 8 787 000 | 8 726 121 | 7 977 546 | 8 146 908 | 7 587 113 |
| Turkey | | | | | |
| Anthracite | 3 369 727 | 3 312 690 | 3 090 458 | 2 842 952 | 2 785 505 |
| Bituminous | 55 860 | 118 235 | 336 714 | 738 915 | 737 701 |
| Lignite | 58 172 982 | 49 626 612 | 43 749 420 | 43 754 159 | 60 867 574 |
| United Kingdom | | | | | |
| Bituminous (c) | 31 930 000 | 29 989 000 | 28 279 000 | 25 096 000 | 20 498 000 |
| EU31 Total | 703 500 000 | 694 200 000 | 687 400 000 | 679 800 000 | 681 600 000 |

Note(s):-

(1) There is no international agreement as to the separate definition of lignite and brown coal. In some cases they are distinguished. Elsewhere both may be aggregated under one or other term

- (a) Coal; all forms
- (b) Spitzbergen: not including production from mines controlled by the former Soviet Union
- (c) Including anthracite

EU31 Production of coal 2001 - 05



Exports of coal

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Belgium-Luxembourg | | | | | |
| Anthracite | 1 029 455 | 940 201 | 999 793 | 1 399 280 | 1 463 646 |
| Other coal | 1 309 947 | 1 783 567 | 1 777 869 | 2 273 223 | 2 948 838 |
| Briquettes | 15 955 | 43 484 | 19 122 | ... | 11 682 |
| Czech Republic | | | | | |
| Hard coal (a) | 5 712 522 | 5 680 003 | 5 668 451 | 5 706 798 | 5 260 739 |
| Lignite | 2 977 065 | 1 770 888 | 1 082 961 | 1 072 275 | 1 324 025 |
| Briquettes | 168 874 | 188 383 | 191 650 | 160 823 | 148 966 |
| Denmark | | | | | |
| Hard coal | 100 160 | 97 862 | 6 665 | 7 380 | 86 739 |
| Estonia | | | | | |
| Hard coal (a) | 33 648 | 37 954 | 5 875 | ... | ... |
| France | | | | | |
| Anthracite | 15 698 | 26 834 | 9 324 | 1 077 | 14 913 |
| Other coal | 69 544 | 94 865 | 74 343 | 93 265 | 68 197 |
| Germany | | | | | |
| Hard coal (a) | 105 443 | 49 449 | 182 233 | 183 694 | 255 029 |
| Brown coal | 304 061 | 273 953 | 71 777 | 430 | 73 |
| Briquettes | 218 890 | 173 867 | 156 179 | 87 651 | 74 800 |
| Greece | | | | | |
| Briquettes | 404 | 40 046 | 71 510 | 67 701 | 51 752 |
| Hungary | | | | | |
| Lignite | ... | ... | 13 966 | 81 047 | 366 132 |
| Irish Republic | | | | | |
| Briquettes | 20 787 | 20 130 | 21 151 | 18 049 | 13 103 |
| Italy | | | | | |
| Hard coal (a) | 54 884 | 33 141 | 17 124 | 92 227 | 66 115 |
| Netherlands | | | | | |
| Anthracite | 272 320 | 162 820 | 206 426 | 161 320 | 165 918 |
| Other coal | 13 104 257 | 6 539 589 | 5 574 363 | 8 624 870 | 8 445 919 |
| Briquettes | 977 | 13 472 | 1 362 | 71 710 | 58 241 |
| Poland | | | | | |
| Anthracite | 79 908 | 6 677 | 71 646 | 8 599 | 23 331 |
| Other coal | 22 946 136 | 22 608 910 | 20 044 204 | 19 684 005 | 20 816 121 |
| Lignite | 14 789 | 41 287 | 35 824 | 26 929 | 8 211 |
| Spain | | | | | |
| Anthracite | 7 146 | 12 173 | 47 185 | 48 710 | 49 563 |
| Turkey | | | | | |
| Anthracite | 35 713 | 12 062 | 9 540 | 11 077 | 10 324 |
| United Kingdom | | | | | |
| Anthracite | 272 985 | 187 372 | 180 382 | 172 486 | 169 252 |
| Other coal | 309 560 | 341 626 | 352 620 | 439 930 | 380 426 |
| Lignite | ... | ... | ... | ... | 2 321 |
| Briquettes | 77 184 | 64 094 | 60 172 | 41 094 | 20 713 |

Note(s):-

(1) This table excludes bunker shipments

(a) Including anthracite

Imports of coal

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Austria | | | | | |
| Hard coal (b) | 3 846 806 | 3 993 504 | 3 965 922 | 3 552 594 | 4 108 821 |
| Brown coal | 52 745 | 61 439 | 59 077 | 38 833 | 2 139 |
| Briquettes | 108 786 | 76 354 | 84 343 | 83 035 | 96 318 |
| Belgium-Luxembourg | | | | | |
| Anthracite | 1 138 122 | 3 412 532 | 3 439 165 | 4 134 160 | 3 293 344 |
| Other coal | 9 829 971 | 8 263 921 | 8 342 288 | 9 728 235 | 8 997 265 |
| Brown coal | 232 063 | 244 300 | 219 162 | 232 809 | 229 192 |
| Briquettes | 52 887 | 53 715 | 14 717 | 3 924 | 14 120 |
| Bulgaria | | | | | |
| Anthracite | 1 928 500 | 1 173 622 | 1 396 246 | 1 464 605 | 2 016 911 |
| Other coal | 1 758 266 | 2 315 367 | 3 038 589 | 2 784 512 | 2 270 525 |
| Croatia | | | | | |
| Hard coal | 642 574 | 281 298 | 1 034 849 | 1 218 407 | 957 899 |
| Lignite | 84 520 | 34 807 | 69 679 | 79 921 | 77 959 |
| Briquettes | 18 278 | 65 401 | 22 828 | 2 981 | 4 734 |
| Cyprus | 85 931 | 71 734 | 21 | ... | 3 |
| Czech Republic | | | | | |
| Anthracite | 6 258 | 19 893 | 15 177 | 52 247 | 43 713 |
| Other coal | 1 196 643 | 1 199 062 | 1 265 727 | 1 642 568 | 1 192 214 |
| Denmark | | | | | |
| Anthracite | 81 874 | 120 888 | 92 434 | 77 502 | 52 143 |
| Other coal | 6 916 611 | 6 087 316 | 9 126 099 | 7 487 269 | 5 881 938 |
| Estonia | | | | | |
| Hard coal (b) | 126 569 | 59 183 | 60 731 | 44 399 | 53 647 |
| Finland | | | | | |
| Hard coal (b) | 6 174 441 | 5 788 973 | 10 145 037 | 8 283 891 | 4 724 392 |
| France | | | | | |
| Anthracite | 1 049 738 | 1 323 661 | 1 557 639 | 2 076 592 | 3 266 840 |
| Other coal | 13 508 122 | 13 960 659 | 15 082 984 | 17 619 595 | 16 234 759 |
| Lignite | 60 810 | 23 470 | 41 784 | 40 405 | 34 396 |
| Briquettes | 98 610 | 74 423 | 68 883 | 75 872 | 116 845 |
| Germany | | | | | |
| Anthracite | 846 310 | 775 851 | 1 143 311 | 1 413 902 | 991 877 |
| Other coal | 27 397 137 | 26 629 962 | 25 164 977 | 31 047 441 | 29 452 512 |
| Brown coal | 1 936 950 | 1 040 979 | 49 433 | 10 570 | 9 890 |
| Briquettes | 159 991 | 154 033 | 178 993 | 95 446 | 110 971 |
| Greece | | | | | |
| Anthracite | 22 618 | 47 356 | 51 753 | 37 633 | 35 475 |
| Other coal | 1 334 625 | 238 619 | 803 239 | 753 949 | 724 600 |
| Hungary | | | | | |
| Hard coal (b) | ... | 874 393 | 1 108 289 | 1 347 232 | 498 369 |
| Brown coal | 247 929 | 259 129 | 311 845 | 403 297 | 710 417 |
| Irish Republic | | | | | |
| Anthracite | 282 790 | 163 733 | 164 270 | 100 792 | 60 325 |
| Other coal | 1 682 981 | 1 337 469 | 1 307 994 | 2 930 298 | 2 641 074 |
| Briquettes | 42 480 | 28 105 | 46 789 | 48 348 | 35 959 |
| Italy | | | | | |
| Anthracite | 155 092 | 193 308 | 243 578 | 338 706 | 369 840 |
| Other coal | 20 068 964 | 19 682 422 | 21 029 014 | 25 382 339 | 24 714 768 |
| Latvia | | | | | |
| Hard coal (b) | 86 754 | 101 680 | 123 844 | 94 896 | 115 720 |
| Lithuania | | | | | |
| Hard coal (b) | 105 625 | 222 485 | 294 938 | 260 684 | 290 058 |
| Netherlands | | | | | |
| Anthracite | 1 293 055 | 190 633 | 363 692 | 293 892 | 186 936 |
| Other coal | 26 951 400 | 18 685 529 | 20 158 178 | 22 241 661 | 21 958 859 |
| Brown coal | 38 959 | 36 923 | 23 782 | 18 294 | 30 769 |
| Briquettes | 16 111 | 13 474 | 24 574 | 15 510 | 58 737 |
| Norway | | | | | |
| Anthracite (a) | 105 585 | 56 263 | 84 858 | 71 785 | 92 673 |
| Other coal (a) | 684 305 | 598 378 | 586 775 | 693 106 | 575 921 |
| Lignite (a) | 35 000 | 1 308 | 9 | 67 | 0 |
| Poland | | | | | |
| Anthracite | 41 730 | 37 788 | 49 745 | 168 095 | 263 929 |
| Other coal | 1 857 741 | 2 729 972 | 2 506 316 | 2 231 606 | 3 112 462 |

Coal

Imports continued

tonnes

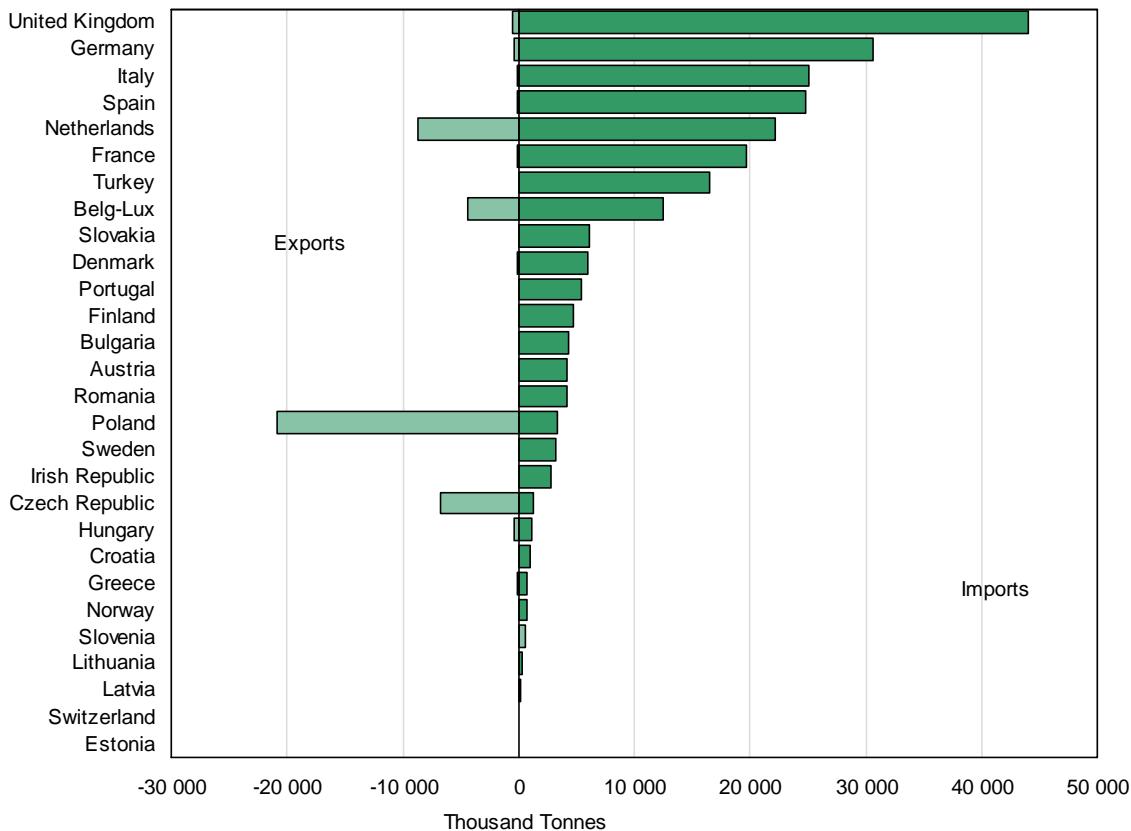
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------------|------------|------------|------------|------------|
| Portugal | | | | | |
| Anthracite | 209 725 | 211 583 | 276 685 | 30 630 | 48 785 |
| Other coal | 4 459 459 | 5 627 373 | 5 084 416 | 5 241 255 | 5 386 968 |
| Romania | | | | | |
| Anthracite | ... | 14 124 | 18 267 | 74 708 | 82 683 |
| Other coal | (b) 3 015 063 | 3 658 335 | 3 251 154 | 3 584 413 | 3 681 406 |
| Lignite | ... | 153 | 18 554 | 44 787 | 367 781 |
| Slovakia | | | | | |
| Hard coal (b) | 4 974 806 | 4 630 110 | 4 944 486 | 5 181 166 | 5 343 468 |
| Lignite | 763 850 | 710 943 | 805 556 | 717 562 | 700 503 |
| Briquettes | 5 421 | 3 162 | 1 803 | 20 243 | 33 049 |
| Slovenia | | | | | |
| Hard coal (b) | 28 581 | 34 607 | 54 168 | 38 849 | 51 173 |
| Lignite | 440 419 | 539 356 | 488 929 | 584 117 | 543 465 |
| Spain | | | | | |
| Anthracite | 1 741 429 | 1 729 758 | 2 015 985 | 2 376 019 | 2 534 019 |
| Other coal | 17 174 707 | 22 792 868 | 19 537 014 | 22 098 156 | 22 222 316 |
| Sweden | | | | | |
| Anthracite | 10 194 | 11 078 | 99 008 | 7 304 | 13 013 |
| Other coal | 2 758 180 | 2 652 007 | 3 081 407 | 3 059 218 | 3 187 798 |
| Switzerland | | | | | |
| Anthracite | 12 492 | 6 828 | 6 146 | 7 396 | 6 640 |
| Other coal | 155 809 | 115 061 | 79 125 | 169 472 | 93 584 |
| Turkey | | | | | |
| Anthracite | 119 373 | 213 743 | 340 165 | 397 125 | 413 333 |
| Other coal | 6 086 397 | 13 394 458 | 15 215 711 | 16 033 118 | 16 126 628 |
| United Kingdom | | | | | |
| Anthracite | 2 757 188 | 1 550 849 | 334 883 | 197 788 | 187 388 |
| Other coal | 32 772 976 | 27 110 435 | 31 538 546 | 35 958 449 | 43 890 778 |
| | 11 317 | 17 127 | 7 638 | 8 498 | 6 554 |

Note(s) :-

(a) Excludes coal imported from Spitzbergen

(b) Including anthracite

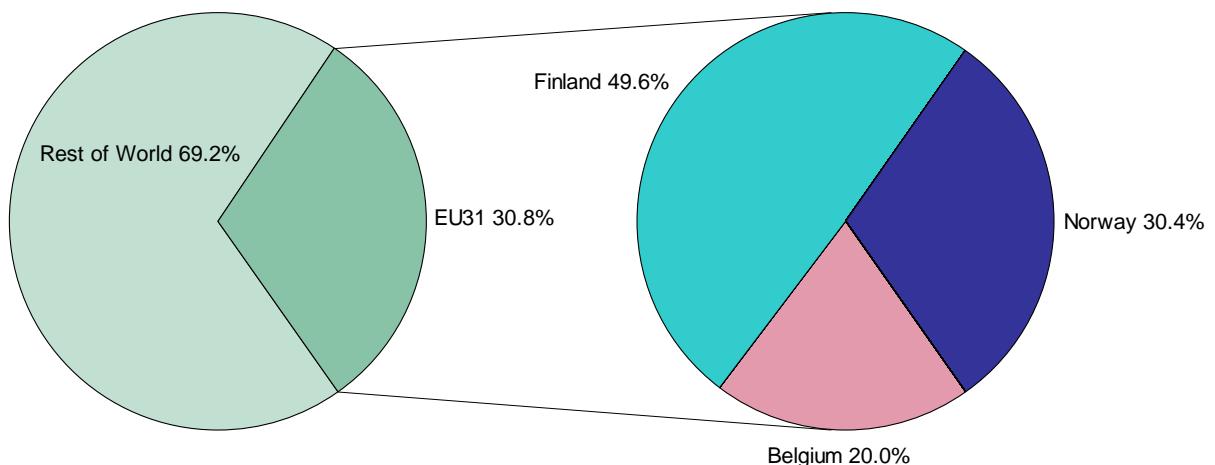
Coal – EU31 trade in 2005



Cobalt

- Cobalt is a magnetic, brittle, hard metallic element. Its chief uses are in alloy steels, superalloys, magnet alloys, batteries, catalysts and as the cement for carbides in tools. Cobalt compounds are used as pigments and paint-driers.
- Democratic Republic of Congo was the largest world producer in 2005 (41%), however mine production of cobalt is dominated by only five countries (Congo D.R., Zambia, Russia, Brazil and Canada). There was no mine production within the EU31. China was the world's largest producer of cobalt metal, closely followed by Finland, based on imported materials.
- The cobalt price tends to be highly volatile, usually as a result of production being concentrated in so few countries and because of its status as a byproduct metal. During the first half of 2005 availability of refined cobalt increased compared with 2004 causing cobalt prices to fall. During 2005 cobalt (min. 99.8% ingot) traded between \$12/lb and \$19/lb.

EU31 Production of cobalt metal 2005



Production of cobalt metal

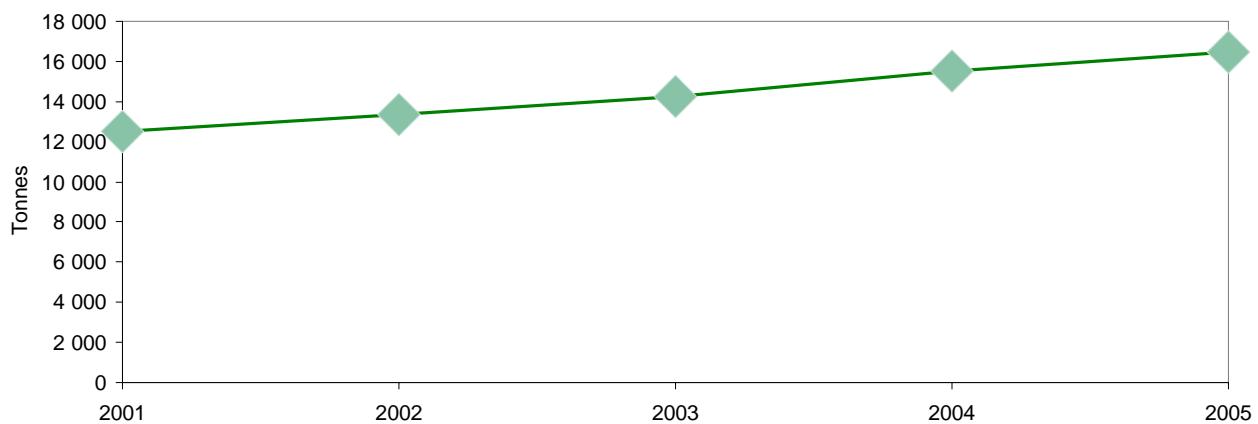
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|--------|--------|--------|-----------|-----------|
| Belgium | *1 090 | 1 135 | 1 704 | (a) 2 947 | (a) 3 298 |
| Finland | 8 100 | 8 240 | 7 989 | 7 893 | 8 171 |
| Norway | 3 300 | 4 000 | 4 556 | 4 670 | 5 021 |
| EU31 Total | 12 500 | 13 400 | 14 200 | 15 500 | 16 500 |

Note(s):-

(1) In addition to the production listed above, several countries, including the United Kingdom, Finland and France, are known to produce substantial amounts of cobalt compounds

(a) Some metal production in China is recorded in Belgium

EU31 Production of cobalt metal 2001 - 05**Exports of cobalt**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Austria | | | | | |
| Metal | 50 | 173 | 85 | 22 | 5 |
| Belgium-Luxembourg | | | | | |
| Ore | 104 | 145 | 381 | 1 064 | 543 |
| Metal (a) | *3 300 | *3 600 | *3 800 | *3 900 | *3 100 |
| Oxides (a) | *3 200 | *3 800 | *6 900 | *2 100 | *5 200 |
| Estonia | | | | | |
| Metal | 49 | — | 143 | 12 | ... |
| Finland | | | | | |
| Metal (a) | *3 600 | *3 900 | *4 100 | *5 200 | *5 800 |
| Oxides (a) | *3 500 | *3 700 | *3 400 | *2 100 | *1 700 |
| France | | | | | |
| Metal | 733 | 516 | 502 | 675 | 699 |
| Oxides | 114 | 64 | 69 | 221 | 57 |
| Germany | | | | | |
| Metal | 1 027 | 901 | 1 116 | 1 441 | 1 395 |
| Oxides | 126 | 122 | 151 | 233 | 185 |
| Irish Republic | | | | | |
| Oxides | 49 | 119 | 118 | 11 | — |
| Italy | | | | | |
| Metal | 86 | 98 | 174 | 236 | 97 |
| Oxides | 126 | 49 | 63 | 123 | 63 |
| Netherlands | | | | | |
| Metal | 2 737 | 690 | 2 247 | 1 954 | 1 326 |
| Oxides | 459 | 271 | 150 | 953 | 1 323 |
| Norway | | | | | |
| Metal | 3 322 | 3 941 | 4 635 | 4 744 | 4 997 |
| Poland | | | | | |
| Metal | 57 | 1 | ... | 26 | 19 |
| Spain | | | | | |
| Metal | 49 | 16 | 14 | 35 | 7 |
| Oxides | 2 | 122 | 8 | 33 | 59 |
| Sweden | | | | | |
| Metal | 110 | 146 | 117 | 127 | 127 |
| Oxides | 12 | ... | ... | ... | ... |
| Switzerland | | | | | |
| Metal | 205 | 61 | 104 | 95 | 140 |
| United Kingdom | | | | | |
| Metal | 1 855 | 1 120 | 1 546 | 1 882 | 1 471 |
| Oxides | 1 256 | 1 233 | 1 380 | 1 233 | 994 |

Note(s):-

(a) BGS estimates, based on known imports into certain countries

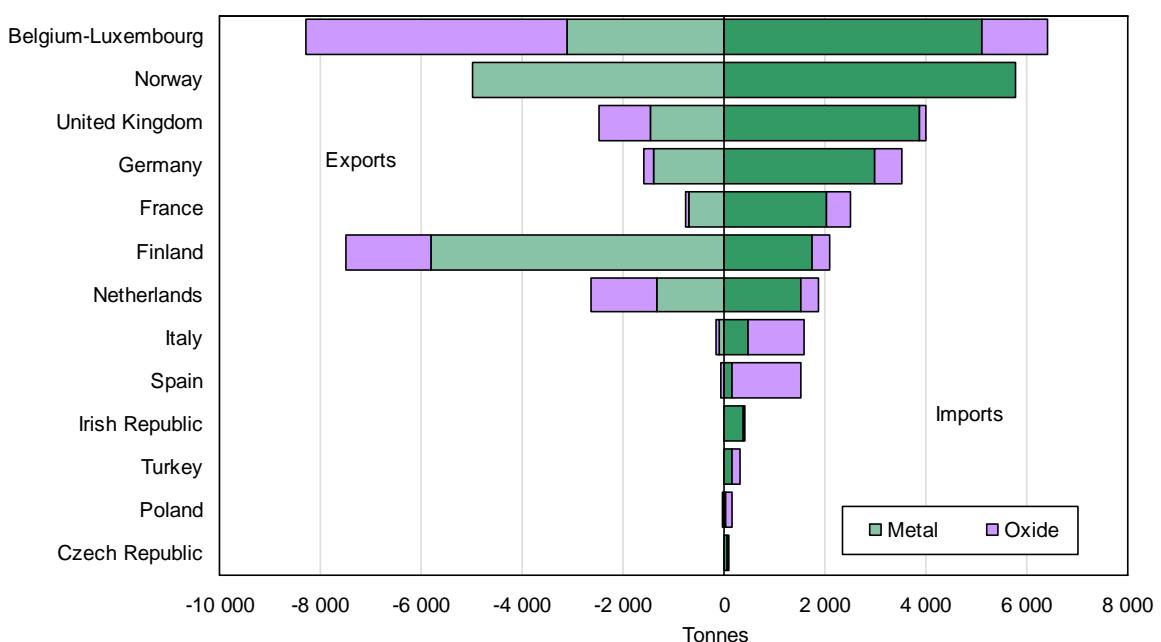
Imports of cobalt

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|----------|----------|----------|------------|
| Austria | | | | | |
| Metal | 415 | 345 | 30 | 585 | 694 |
| Belgium-Luxembourg | | | | | |
| Ore | 50 | — | 67 | 455 | 263 |
| Metal (a) | *4 600 | *4 800 | *7 200 | *6 300 | *5 100 |
| Oxides | 667 | 644 | 800 | 1 103 | (b) *1 300 |
| Czech Republic | | | | | |
| Metal | 41 | 35 | 54 | 81 | 75 |
| Oxides | 37 | 32 | 25 | 33 | 18 |
| Estonia | | | | | |
| Metal | 30 | 0 | 138 | 17 | 0 |
| Finland | | | | | |
| Ore | 61 785 | 64 274 | 41 707 | 80 202 | 54 794 |
| Metal | ... | (b) *400 | (b) *100 | (b) *700 | 1 759 |
| Oxides | 1 | 4 | 45 | 126 | 336 |
| France | | | | | |
| Ore | 69 | 45 | 9 | 5 | 1 |
| Metal | 1 723 | 1 654 | 1 813 | *1 600 | 2 038 |
| Oxides | 471 | 370 | 533 | 522 | 474 |
| Germany | | | | | |
| Metal | 2 408 | 2 349 | 2 568 | 2 602 | 2 990 |
| Oxides | 301 | 346 | 439 | 448 | 542 |
| Greece | | | | | |
| Metal | 33 | 34 | 30 | 89 | 31 |
| Irish Republic | | | | | |
| Metal | 527 | 398 | 282 | 273 | 390 |
| Oxides | 45 | 6 | 3 | 5 | 13 |
| Italy | | | | | |
| Ore | 1 | 41 | 495 | 122 | 5 |
| Metal | 624 | 649 | 449 | 440 | 468 |
| Oxides | 1 004 | 1 256 | 966 | 1 004 | 1 128 |
| Netherlands | | | | | |
| Metal | 1 451 | 478 | 551 | 1 340 | 1 532 |
| Oxides | 510 | 570 | 215 | 369 | 351 |
| Norway | | | | | |
| Metal | 2 196 | 3 131 | 4 773 | 9 629 | 5 775 |
| Oxides | 113 | 41 | 22 | 4 | 9 |
| Poland | | | | | |
| Metal | 53 | 44 | 49 | 44 | 35 |
| Oxides | 38 | 33 | 16 | 37 | 121 |
| Slovenia | | | | | |
| Metal | 214 | 141 | 198 | 162 | 209 |
| Spain | | | | | |
| Metal | 228 | 131 | 171 | 181 | 158 |
| Oxides | 1 336 | 1 436 | 1 401 | 1 249 | 1 352 |
| Sweden | | | | | |
| Metal | 813 | 599 | 663 | 711 | 660 |
| Switzerland | | | | | |
| Metal | 394 | 342 | 291 | 361 | 423 |
| Turkey | | | | | |
| Metal | 62 | 88 | 157 | 170 | 164 |
| Oxides | 60 | 84 | 108 | 134 | 139 |
| United Kingdom | | | | | |
| Metal | 4 187 | 4 036 | 3 356 | 3 862 | 3 888 |
| Oxides | 641 | 487 | 582 | 525 | 107 |

Note(s) :-

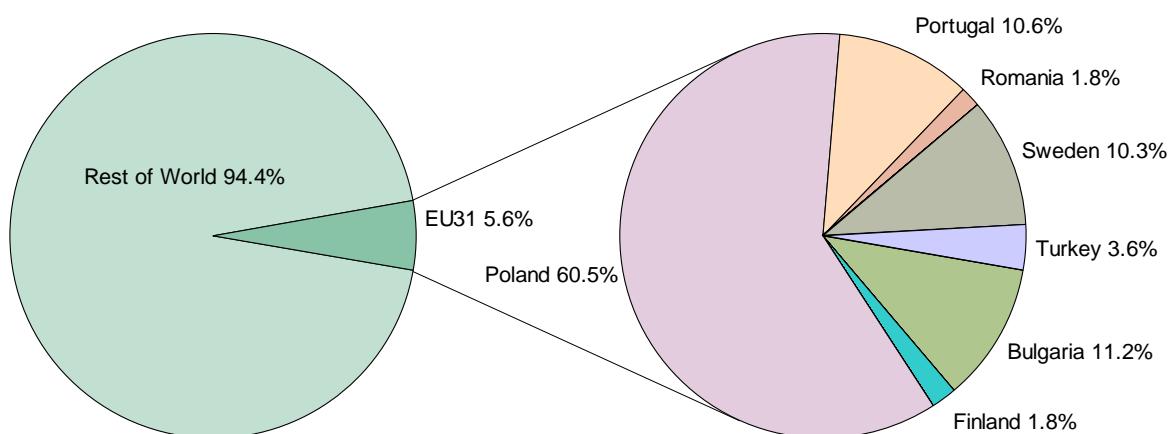
(a) BGS estimates, based on known exports from certain countries

Cobalt – EU31 trade in 2005

Copper

- Copper is reddish, malleable and ductile metallic element with excellent thermal and electrical conductive qualities. It is a very important industrial material and is used in the electrical, electronics, transportation and construction industries.
- Mine production in 2005 was dominated by Chile (35%) although many countries have some form of copper production. In the EU31 Poland (61%) was the largest mine producer and second largest refined metal producer, while Germany and Poland are major producers of refined copper, based on imported materials.
- Copper is widely traded and sets the unofficial benchmark for many other traded metals. Copper prices trended upwards throughout the year reaching record highs at year-end of over \$4600/tonne. Global demand continued to outstrip supply despite growth in world production of refined copper. Continued rapid growth of developing economies, especially in Asia, has led to increased demand for copper. In addition, intense fund buying and production shortfalls caused by problems at mines and smelters have caused global copper inventories to become severely depleted. The supply/demand shortfall in 2005 resulted in an annual settlement price on the LME of \$3678.89/tonne, an increase of more than 28% over 2004.

EU31 Mine production of copper 2005

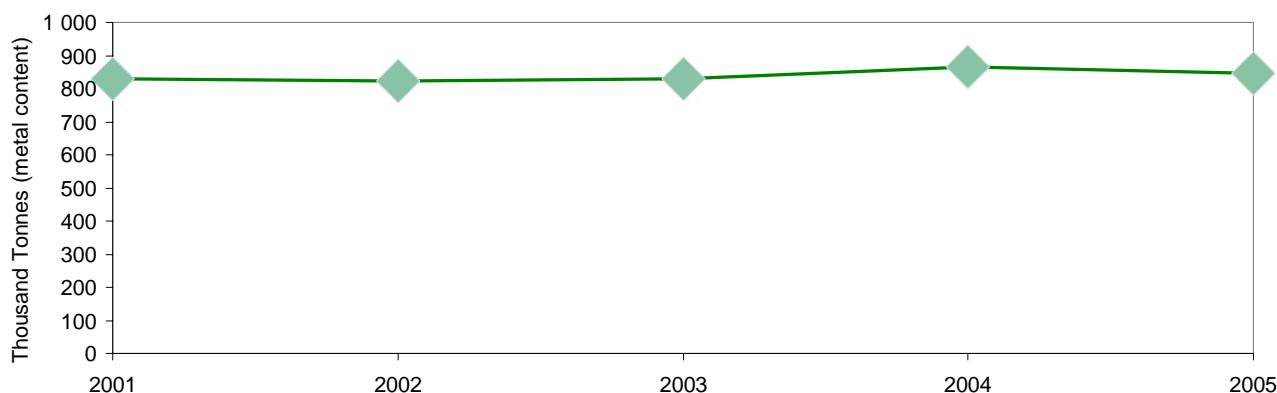


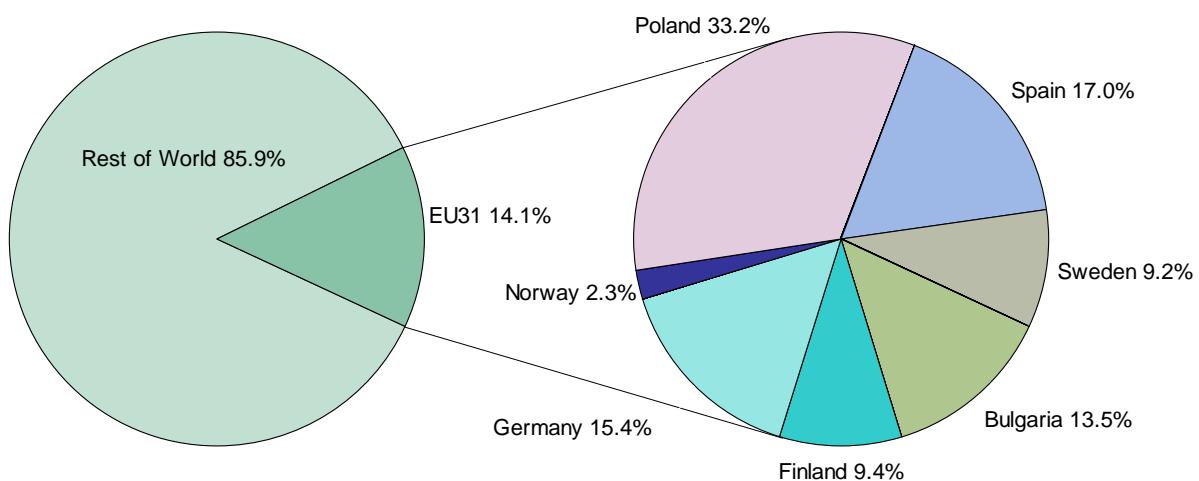
Mine production of copper

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|---------|---------|---------|---------|---------|
| Bulgaria | 97 100 | 84 400 | 80 240 | 79 600 | 94 900 |
| Cyprus | 4 600 | 3 700 | 2 500 | — | — |
| Finland | 11 600 | 14 400 | 14 900 | 15 500 | 15 500 |
| Poland | 474 000 | 502 800 | 503 544 | 530 768 | 511 799 |
| Portugal | 82 965 | 77 227 | 77 581 | 95 700 | 89 500 |
| Romania | 19 185 | 19 323 | 23 389 | 20 380 | 14 868 |
| Spain | 9 800 | 1 248 | 635 | 1 306 | 2 459 |
| Sweden | 74 269 | 71 991 | 83 143 | 82 415 | 87 068 |
| Turkey | 56 820 | 48 217 | 43 245 | 38 876 | 30 067 |
| EU31 Total | 830 000 | 823 000 | 829 000 | 865 000 | 846 000 |

EU31 Mine production of copper 2001 - 05



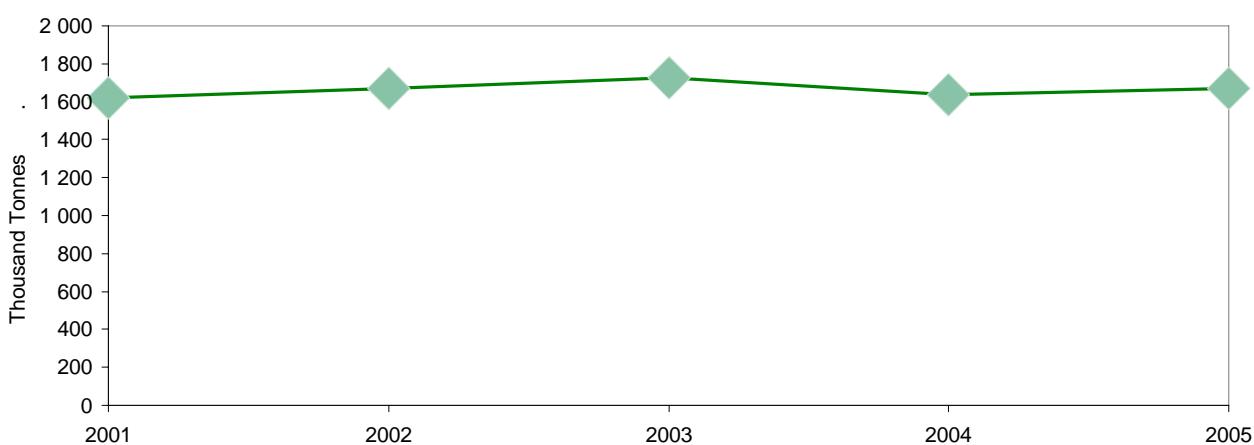
EU31 Smelter production of copper 2005**Smelter production of copper**

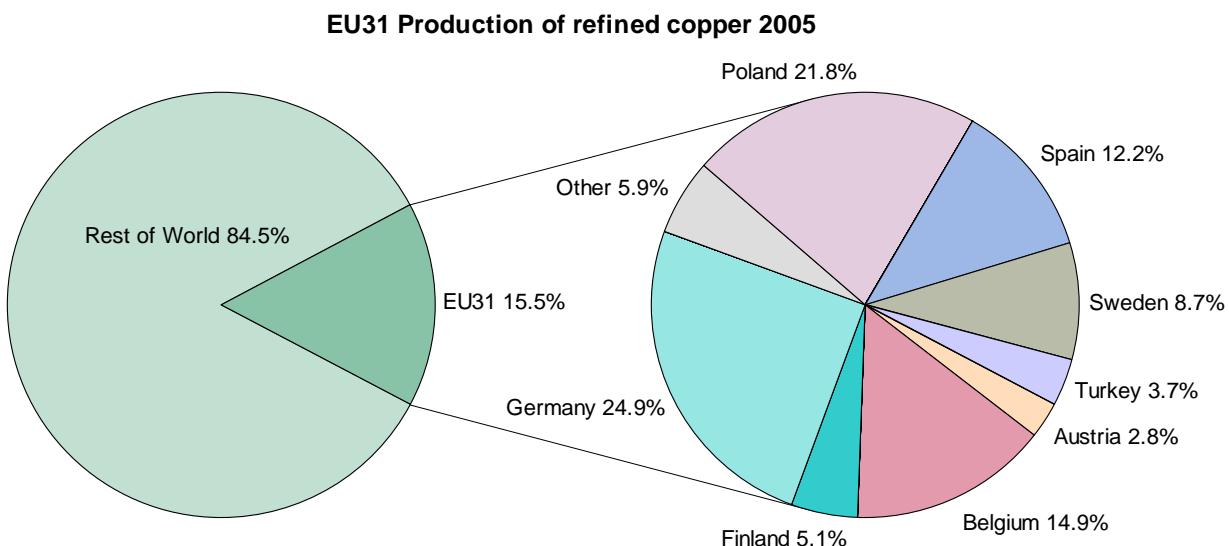
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|-----------|-----------|-----------|-----------|-----------|
| Bulgaria | 134 700 | 167 000 | 199 300 | 215 800 | 225 000 |
| Finland | 169 251 | 160 896 | 160 596 | 151 647 | 157 900 |
| Germany | 317 700 | 295 100 | 288 800 | 278 600 | 257 200 |
| Norway | 26 704 | 30 483 | 35 851 | 35 643 | 38 681 |
| Poland | 485 869 | 510 725 | 559 960 | 547 228 | 555 681 |
| Romania | 3 000 | 3 000 | 3 000 | 61 | — |
| Spain | 280 015 | 298 057 | 290 282 | 224 249 | 284 215 |
| Sweden | 179 364 | 186 984 | 175 475 | 174 459 | 153 399 |
| Turkey | 23 751 | 19 375 | 14 426 | 6 998 | — |
| EU31 Total | 1 620 000 | 1 672 000 | 1 728 000 | 1 635 000 | 1 672 000 |

Note(s):-

- (1) This table shows primary metal in the form of blister and anode produced from concentrates, and may include copper produced from scrap but this is excluded when it can be separately identified

EU31 Smelter production of copper 2001 - 05



Production of refined copper

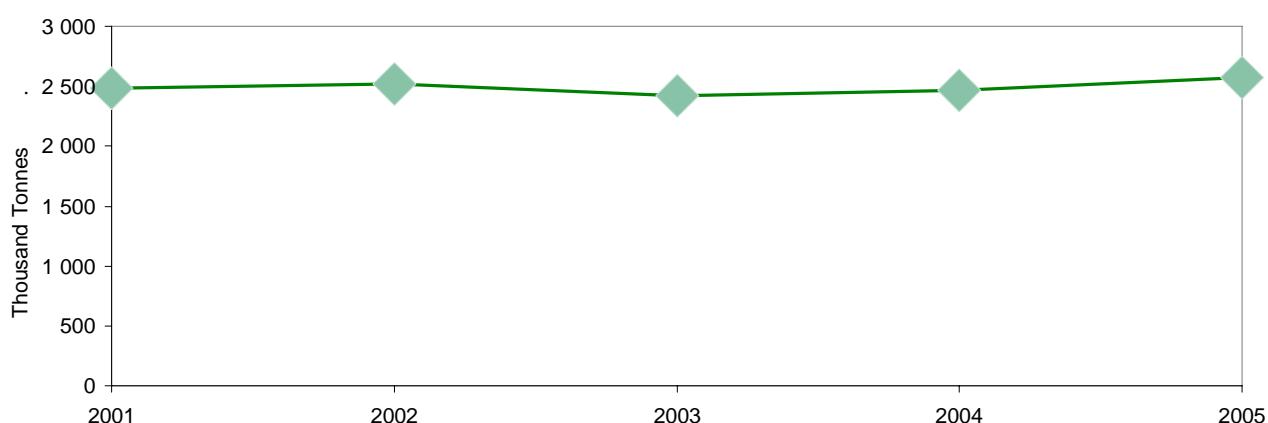
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 66 154 | 64 900 | 65 100 | 74 200 | 72 300 |
| Belgium | 424 000 | 422 500 | 423 000 | 383 000 | 382 900 |
| Bulgaria | 34 500 | 40 700 | 45 900 | 55 300 | 60 000 |
| Cyprus | 4 604 | 3 695 | 2 552 | 1 344 | — |
| Finland | 115 500 | 126 016 | 135 713 | 132 384 | 132 126 |
| Germany | 693 714 | 695 741 | 597 531 | 652 600 | 638 800 |
| Italy | 30 200 | 32 400 | 26 700 | 33 600 | 32 200 |
| Norway | 26 700 | 30 600 | 35 852 | 35 643 | 38 681 |
| Poland | 498 451 | 508 674 | 529 616 | 550 066 | 560 256 |
| Romania | 17 654 | 11 453 | 16 739 | 24 526 | 20 739 |
| Slovakia | 10 584 | 6 989 | 600 | — | — |
| Spain | 290 630 | 312 145 | 293 495 | 228 466 | 313 105 |
| Sweden | 216 237 | 224 402 | 214 181 | 235 620 | 223 482 |
| Turkey | 58 400 | 41 000 | 36 900 | 63 000 | 95 000 |
| EU31 Total | 2 487 000 | 2 521 000 | 2 424 000 | 2 470 000 | 2 570 000 |

Note(s):-

- (1) Figures relate to both primary and secondary refined copper, whether electrolytic or fire refined. Metal recovered from secondary materials by remelting alone is excluded

EU31 Production of refined copper 2001 - 05



Exports of copper

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Unwrought | 84 765 | 74 370 | 81 897 | 71 119 | 83 750 |
| Unwrought alloys | 1 121 | 916 | 907 | 580 | 604 |
| Scrap | 18 439 | 25 765 | 25 606 | 36 476 | 33 274 |
| Belgium-Luxembourg | | | | | |
| Matte & cement | 631 | 15 222 | ... | 493 | ... |
| Unwrought, unrefined | 12 322 | 3 537 | 10 521 | 19 942 | 4 499 |
| Unwrought, refined | 240 995 | 201 367 | 336 637 | 169 556 | 241 363 |
| Unwrought alloys | 20 265 | 14 815 | 21 710 | 13 556 | 14 463 |
| Scrap | 136 612 | 127 668 | 152 584 | 169 397 | 177 787 |
| Bulgaria | | | | | |
| Ores & concentrates | 96 065 | 83 032 | 72 861 | 78 563 | 124 717 |
| Matte & cement | 1 291 | 4 233 | 4 356 | 6 718 | 5 750 |
| Unwrought | 151 681 | 173 720 | 218 482 | 219 415 | 219 009 |
| Scrap | 8 736 | 9 459 | 9 507 | 9 480 | 8 244 |
| Croatia | | | | | |
| Scrap | 6 506 | 7 001 | 7 497 | 9 613 | 10 814 |
| Cyprus | | | | | |
| Unwrought | 5 015 | 3 697 | 2 610 | 1 322 | ... |
| Scrap | 1 307 | 2 808 | 1 266 | 2 221 | 2 548 |
| Czech Republic | | | | | |
| Unwrought | 1 909 | 1 712 | 978 | 7 834 | 4 251 |
| Scrap | 39 516 | 38 121 | 36 874 | 53 086 | 53 707 |
| Denmark | | | | | |
| Scrap | 39 979 | 37 058 | 39 487 | 38 573 | 27 227 |
| Estonia | | | | | |
| Scrap | 7 981 | 7 285 | 6 857 | 6 479 | 6 660 |
| Finland | | | | | |
| Unwrought, unrefined | 51 804 | 43 523 | 33 180 | 25 618 | 29 685 |
| Unwrought, refined | 19 935 | 37 256 | 34 333 | 27 650 | 40 170 |
| Unwrought alloys | 1 382 | 1 002 | 724 | 903 | 746 |
| Scrap | 14 032 | 16 462 | 19 693 | 23 543 | 30 577 |
| France | | | | | |
| Unwrought | 27 912 | 15 723 | 32 947 | 60 745 | 48 050 |
| Unwrought alloys | 11 581 | 9 283 | 6 585 | 11 940 | 9 851 |
| Scrap | 190 041 | 192 020 | 180 294 | 243 074 | 262 874 |
| Germany | | | | | |
| Ores & concentrates | 19 053 | 15 630 | 48 674 | 49 617 | 46 139 |
| Unwrought, unrefined | 4 989 | 2 215 | 1 592 | 53 | 232 |
| Unwrought, refined | 108 224 | 90 919 | 117 566 | 137 238 | 149 083 |
| Unwrought alloys | 27 379 | 26 876 | 21 421 | 21 038 | 20 232 |
| Scrap | 261 464 | 300 340 | 363 762 | 373 809 | 439 134 |
| Greece | | | | | |
| Scrap | 6 558 | 6 520 | 9 460 | 8 517 | 15 126 |
| Hungary | | | | | |
| Scrap | 19 952 | 17 867 | 27 405 | 31 741 | 34 861 |
| Irish Republic | | | | | |
| Scrap | 8 835 | 9 043 | 17 824 | 16 118 | 13 152 |
| Italy | | | | | |
| Matte & cement | 4 377 | 5 982 | 561 | 366 | ... |
| Unwrought | 28 074 | 7 528 | 13 371 | 22 988 | 6 387 |
| Unwrought alloys | 16 851 | 12 631 | 12 110 | 16 772 | 14 128 |
| Scrap | 55 930 | 46 184 | 53 184 | 97 964 | 110 711 |
| Latvia | | | | | |
| Scrap | 8 160 | 7 775 | 6 329 | 7 153 | 9 207 |
| Lithuania | | | | | |
| Scrap | 10 016 | 9 719 | 8 383 | 7 611 | 5 821 |
| Netherlands | | | | | |
| Unwrought | 5 444 | 10 075 | 18 605 | 32 548 | 39 638 |
| Scrap | 100 488 | 101 624 | 109 595 | 140 909 | 207 551 |
| Norway | | | | | |
| Unwrought | 24 681 | 32 302 | 35 392 | 35 632 | 37 430 |
| Unwrought alloys | 1 665 | 1 421 | 1 195 | 988 | 1 707 |
| Scrap | 17 394 | 15 814 | 25 382 | 21 256 | 22 667 |

Copper

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|---------|---------|---------|---------|---------|
| Poland | | | | | |
| Unwrought | 226 889 | 279 803 | 278 113 | 275 089 | 290 462 |
| Unwrought alloys | 4 680 | 5 020 | 5 329 | 5 007 | 6 183 |
| Scrap | 22 351 | 22 529 | 40 542 | 42 763 | 47 463 |
| Portugal | | | | | |
| Ores & concentrates | 368 150 | 196 709 | 286 781 | 346 534 | 375 312 |
| Unwrought | 36 | 415 | 747 | 1 165 | 9 356 |
| Scrap | 14 353 | 18 236 | 24 440 | 35 927 | 33 583 |
| Romania | | | | | |
| Ores & concentrates | 64 002 | 87 299 | 94 668 | 81 485 | 84 084 |
| Unwrought | 14 740 | 3 826 | 1 185 | 815 | 614 |
| Scrap | 9 417 | 19 432 | 16 683 | 15 979 | 22 665 |
| Slovakia | | | | | |
| Unwrought | 1 280 | 1 151 | 7 094 | 15 680 | 19 130 |
| Scrap | 5 475 | 7 711 | 8 889 | 12 764 | 14 752 |
| Slovenia | | | | | |
| Scrap | 7 999 | 8 615 | 10 550 | 12 564 | 13 054 |
| Spain | | | | | |
| Ores & concentrates | 79 561 | 6 756 | 2 682 | 4 327 | 14 434 |
| Unwrought, unrefined | 35 090 | 21 126 | 37 437 | 50 901 | 62 269 |
| Unwrought, refined | 23 785 | 23 999 | 46 677 | 32 366 | 44 365 |
| Unwrought alloys | 7 465 | 7 124 | 9 747 | 11 724 | 9 810 |
| Scrap | 52 154 | 72 157 | 62 879 | 77 850 | 99 600 |
| Sweden | | | | | |
| Unwrought, refined | 70 682 | 91 869 | 77 216 | 81 878 | 99 824 |
| Unwrought alloys | 8 827 | 6 486 | 7 104 | 5 040 | 5 247 |
| Scrap | 29 680 | 34 747 | 35 982 | 44 366 | 43 816 |
| Switzerland | | | | | |
| Unwrought | 128 | 907 | 1 163 | 1 872 | 10 691 |
| Scrap | 58 356 | 55 491 | 56 398 | 69 243 | 74 878 |
| Turkey | | | | | |
| Ores & concentrates | 136 702 | 209 656 | 151 667 | 180 609 | 145 118 |
| Unwrought | 20 176 | 22 324 | 18 709 | 12 846 | 13 187 |
| Scrap | 6 855 | 9 897 | 18 492 | 4 529 | 14 977 |
| United Kingdom | | | | | |
| Ore & matte | 11 075 | 10 724 | 2 729 | 127 | 54 |
| Unwrought | 10 315 | 32 276 | 2 924 | 7 362 | 16 253 |
| Unwrought alloys | 23 808 | 26 666 | 24 121 | 22 035 | 15 013 |
| Scrap | 156 121 | 163 579 | 210 169 | 244 749 | 238 557 |

Note(s):-

(1) In this table the term 'unwrought' copper corresponds to items 7402, 7403, 7405 of the Harmonised System and includes both unrefined (including blister) and refined copper

(2) The term 'unwrought' as used here includes alloys unless these are separately specified. The term 'scrap' includes scrap alloys

Imports of copper

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Unwrought, unrefined | — | — | — | 15 203 | 20 081 |
| Unwrought, refined | 35 845 | 24 707 | 29 479 | 18 429 | 21 176 |
| Unwrought alloys | 3 164 | 2 555 | 3 103 | 2 460 | 2 260 |
| Scrap | 59 281 | 80 512 | 82 015 | 87 807 | 82 787 |
| Belgium-Luxembourg | | | | | |
| Matte & cement | 16 | — | 9 | 4 799 | 370 |
| Unwrought, unrefined | 148 800 | 209 172 | 291 190 | 291 111 | 237 645 |
| Unwrought, refined | 44 050 | 36 907 | 58 266 | 17 318 | 9 515 |
| Unwrought alloys | 3 657 | 1 659 | 1 641 | 1 510 | 1 906 |
| Scrap | 245 104 | 261 567 | 225 822 | 256 504 | 257 738 |
| Bulgaria | | | | | |
| Ores & concentrates | 316 840 | 281 687 | 454 875 | 561 613 | 632 255 |
| Unwrought | 15 655 | 8 392 | 3 880 | 8 599 | 18 613 |
| Scrap | 919 | 1 919 | 2 722 | 2 935 | 5 094 |

Copper

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|-----------|-----------|---------|-----------|-----------|
| Czech Republic | | | | | |
| Unwrought | 18 434 | 12 110 | 6 326 | 5 644 | 4 551 |
| Scrap | 2 759 | 1 656 | 2 080 | 5 601 | 6 114 |
| Denmark | | | | | |
| Unwrought | 2 600 | 2 560 | 2 324 | 2 065 | 1 702 |
| Scrap | 12 798 | 12 564 | 18 332 | 16 446 | 13 827 |
| Finland | | | | | |
| Ores & concentrates | 503 460 | 500 798 | 543 488 | 528 930 | 504 658 |
| Unwrought, refined | 5 489 | 347 | 82 | 11 | 35 |
| Unwrought alloys | 3 899 | 3 796 | 4 311 | 2 778 | 3 229 |
| Scrap | 3 624 | 3 190 | 2 472 | 1 735 | 2 423 |
| France | | | | | |
| Matte & cement | 390 | 58 | 1 651 | 386 | 19 |
| Unwrought, unrefined | 177 | 253 | 118 | 168 | 248 |
| Unwrought, refined | 564 415 | 576 398 | 578 525 | 590 304 | 516 881 |
| Unwrought alloys | 12 858 | 13 722 | 8 308 | 7 564 | 10 132 |
| Scrap | 70 698 | 65 362 | 70 422 | 78 853 | 75 464 |
| Germany | | | | | |
| Ores & concentrates | 1 034 722 | 1 037 247 | 880 332 | 1 141 843 | 1 149 088 |
| Matte & cement | 3 070 | 2 389 | 33 896 | 15 085 | 25 931 |
| Unwrought, unrefined | 26 579 | 38 455 | 17 319 | 11 635 | 36 671 |
| Unwrought, refined | 527 947 | 459 451 | 516 590 | 584 852 | 624 688 |
| Unwrought alloys | 35 661 | 26 887 | 38 410 | 24 066 | 26 657 |
| Scrap | 390 731 | 438 312 | 379 726 | 426 995 | 432 147 |
| Greece | | | | | |
| Unwrought | 129 818 | 126 027 | 107 425 | 120 088 | 90 557 |
| Unwrought alloys | 590 | 699 | 843 | 550 | 488 |
| Scrap | 2 627 | 2 672 | 1 979 | 1 864 | 930 |
| Hungary | | | | | |
| Unwrought | 19 937 | 18 994 | 14 327 | 11 365 | 3 269 |
| Scrap | 5 370 | 3 483 | 502 | 512 | 500 |
| Irish Republic | | | | | |
| Scrap | 1 080 | 1 087 | 514 | 16 | 27 |
| Italy | | | | | |
| Unwrought, unrefined | 1 455 | 636 | 310 | 216 | 955 |
| Unwrought, refined | 649 687 | 643 386 | 650 757 | 700 101 | 652 089 |
| Unwrought alloys | 21 575 | 19 779 | 21 862 | 16 723 | 8 053 |
| Scrap | 168 541 | 188 238 | 164 700 | 128 501 | 124 737 |
| Netherlands | | | | | |
| Unwrought, unrefined | 4 | 11 | 2 867 | 10 185 | 10 485 |
| Unwrought, refined | 123 138 | 156 095 | 123 682 | 125 310 | 135 004 |
| Unwrought alloys | 1 612 | 1 725 | 1 326 | 2 172 | 1 904 |
| Scrap | 65 053 | 70 660 | 80 262 | 98 396 | 92 927 |
| Norway | | | | | |
| Unwrought | 3 500 | 3 645 | 1 190 | 2 594 | 3 190 |
| Scrap | 7 647 | 7 609 | 12 591 | 11 270 | 12 420 |
| Poland | | | | | |
| Ores & concentrates | ... | 5 397 | ... | 30 | 43 504 |
| Unwrought | 2 135 | 1 484 | 2 257 | 3 071 | 7 118 |
| Scrap | 3 722 | 5 203 | 6 001 | 14 973 | 5 855 |
| Portugal | | | | | |
| Unwrought | 3 637 | 4 307 | 6 245 | 7 740 | 4 572 |
| Scrap | 1 265 | 838 | 1 383 | 1 874 | 3 329 |
| Romania | | | | | |
| Unwrought | 25 611 | 12 248 | 2 225 | 7 255 | 9 723 |
| Slovakia | | | | | |
| Matte & cement | ... | 170 | 104 | 758 | 4 342 |
| Unwrought | 11 071 | 11 400 | 3 689 | 1 269 | 1 718 |
| Scrap | 5 462 | 5 604 | 8 448 | 20 776 | 19 977 |
| Slovenia | | | | | |
| Unwrought | 3 226 | 4 005 | 3 835 | 2 948 | 2 764 |
| Scrap | 3 300 | 3 119 | 3 787 | 3 743 | 5 762 |

Imports continued

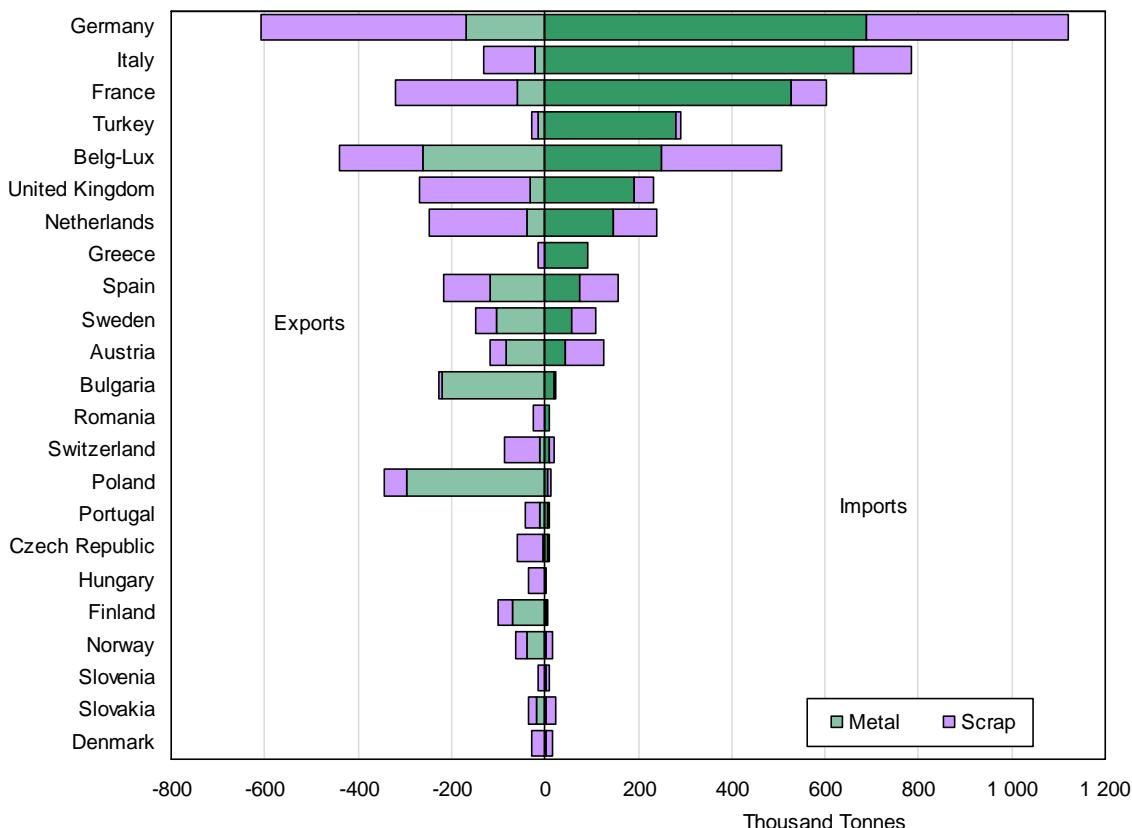
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|---------|-----------|-----------|---------|-----------|
| Spain | | | | | |
| Ores & concentrates | 902 428 | 1 057 377 | 1 052 115 | 776 980 | 1 040 099 |
| Unwrought, unrefined | 16 024 | 9 150 | 15 283 | 2 488 | 312 |
| Unwrought, refined | 42 505 | 28 095 | 33 781 | 74 277 | 69 039 |
| Unwrought alloys | 6 461 | 7 256 | 4 444 | 5 254 | 4 458 |
| Scrap | 82 473 | 83 664 | 57 315 | 112 934 | 84 824 |
| Sweden | | | | | |
| Ores & concentrates | 324 398 | 349 409 | 300 566 | 340 858 | 311 085 |
| Unwrought, unrefined | 29 | 36 | 3 | 2 | 15 452 |
| Unwrought, refined | 49 088 | 36 976 | 48 468 | 34 912 | 40 106 |
| Unwrought alloys | 3 815 | 4 622 | 2 947 | 2 762 | 2 926 |
| Scrap | 31 373 | 43 544 | 52 091 | 76 672 | 50 940 |
| Switzerland | | | | | |
| Unwrought | 8 621 | 5 899 | 5 206 | 6 779 | 4 734 |
| Unwrought alloys | 3 777 | 3 300 | 3 496 | 4 481 | 3 897 |
| Scrap | 13 800 | 8 406 | 9 469 | 11 881 | 9 937 |
| Turkey | | | | | |
| Ores & concentrates | 45 075 | 61 302 | 54 573 | 10 370 | 44 633 |
| Unwrought, unrefined | 12 815 | 7 117 | 100 | 29 555 | 53 214 |
| Unwrought, refined | 135 015 | 205 955 | 229 159 | 217 290 | 223 978 |
| Unwrought alloys | 321 | 1 107 | 3 768 | 4 685 | 3 212 |
| Scrap | 5 522 | 7 061 | 29 803 | 34 975 | 9 629 |
| United Kingdom | | | | | |
| Unwrought, unrefined | 290 | 89 | 14 | 122 | 1 978 |
| Unwrought, refined | 310 894 | 316 578 | 245 152 | 214 067 | 181 767 |
| Unwrought alloys | 7 249 | 5 480 | 6 160 | 8 070 | 6 191 |
| Scrap | 19 651 | 19 240 | 17 378 | 15 731 | 42 264 |

Note(s) :-

- (1) In this table the term 'unwrought' copper corresponds to items 7402, 7403, 7405 of the Harmonised System and includes both unrefined (including blister) and refined copper
- (2) The term 'unwrought' as used here includes alloys unless these are separately specified. The term 'scrap' includes scrap alloys

Copper – EU31 trade in 2005



Diamond

- Diamond is a polymorph of carbon and is the hardest substance known. It is used in two main industries — jewellery, abrasives and cutting tools.
- Africa (chiefly Botswana, Congo D.R. and South Africa) dominates world production with 52% of all carats produced in 2005. However, Russia is the world's largest producing country (22% of world production). Australia is another significant diamond producer, however, its output is almost entirely industrial diamonds. There is no mine production of diamond in the EU31 but production of synthetic diamonds is important and Europe is a world centre for diamond trading.
- Gem quality diamonds are valued on an individual basis that takes into account their unique qualities and are seldom priced at less than \$1000/carat. Industrial diamond prices range from around \$0.40/carat–\$200/carat for large stones but are typically around \$10/carat.

Exports of diamond

carats

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Austria | | | | | |
| Unsorted | £128 000 | £2 321 000 | £319 000 | £477 000 | £188 000 |
| Gem | £1 511 000 | ... | ... | £1 665 000 | £2 895 000 |
| Dust | £418 000 | £653 000 | £190 000 | £432 000 | £406 000 |
| Belgium-Luxembourg | | | | | |
| Gem, rough | 122 500 000 | ... | 131 000 000 | 154 000 000 | 147 000 000 |
| Gem, cut | 4 500 000 | 8 000 000 | 6 500 000 | 6 000 000 | 5 500 000 |
| Industrial | 8 000 000 | 8 000 000 | 10 500 000 | 7 000 000 | 5 500 000 |
| Dust | 24 500 000 | 39 500 000 | 38 000 000 | 42 500 000 | 40 000 000 |
| France | | | | | |
| Unsorted | £264 000 | £283 000 | £398 000 | £274 000 | £518 000 |
| Gem, rough | 97 000 | 149 000 | ... | ... | 500 000 |
| Gem, cut | 1 000 000 | ... | 1 000 000 | 1 500 000 | 1 500 000 |
| Industrial | £3 438 000 | £2 554 000 | £915 000 | £20 000 | £50 000 |
| Germany | | | | | |
| Unsorted | £230 000 | £16 000 | £138 000 | £663 000 | £756 000 |
| Gem, rough | £90 000 | £10 000 | £87 000 | £250 000 | £619 000 |
| Gem, cut | 162 390 | 178 297 | 174 915 | ... | 165 090 |
| Industrial | £3 010 000 | £1 166 000 | £1 254 000 | £974 000 | £1 168 000 |
| Dust | 41 500 000 | 10 000 000 | 17 000 000 | 13 500 000 | 9 000 000 |
| Irish Republic | | | | | |
| Gem, rough | 5 525 000 | 7 285 000 | 5 040 000 | ... | ... |
| Industrial | 5 140 000 | 7 120 000 | 2 275 000 | 3 395 000 | 1 610 000 |
| Italy | | | | | |
| Gem, cut | £15 342 000 | £15 982 000 | £21 938 000 | £26 708 000 | £30 464 000 |
| Industrial | £111 000 | £607 000 | £228 000 | £565 000 | £666 000 |
| Dust | 57 190 000 | 104 155 000 | 42 170 000 | 49 130 000 | 48 455 000 |
| Netherlands | | | | | |
| Unsorted | £2 026 000 | £1 672 000 | £1 490 000 | £1 883 000 | £928 000 |
| Gem, rough | £3 000 | £64 000 | £437 000 | — | — |
| Gem, cut | £7 891 000 | £10 491 000 | £8 511 000 | £9 806 000 | £8 687 000 |
| Industrial | £2 887 000 | £758 000 | £813 000 | £188 000 | £842 000 |
| Dust | ... | £505 000 | £776 000 | £724 000 | £44 000 |
| Norway | | | | | |
| Gem, cut | 21 000 | 60 000 | ... | 40 000 | 90 000 |
| Portugal | | | | | |
| Gem, rough | £37 983 000 | £1 793 000 | £3 650 000 | £96 000 | — |
| Gem, cut | £26 769 000 | £23 412 000 | £37 983 000 | £45 779 000 | £17 981 000 |
| Spain | | | | | |
| Unsorted | 375 000 | ... | ... | 25 000 | 80 000 |
| Gem, cut | £1 890 000 | £3 291 000 | £2 606 000 | £1 855 000 | £5 275 000 |
| Industrial | £1 481 000 | £613 000 | £245 000 | £212 000 | £325 000 |
| Dust | 235 000 | 615 000 | 385 000 | 3 765 000 | 3 760 000 |
| Switzerland | | | | | |
| Gem, rough | 1 110 000 | 55 000 | 65 000 | 140 000 | 195 608 |
| Gem, cut | 1 130 000 | 650 000 | 427 033 | 338 524 | 407 411 |
| Industrial | 35 000 | 40 000 | 66 354 | 18 185 | 13 934 |
| Dust | 80 615 000 | 81 580 000 | 95 290 000 | 120 790 000 | 126 190 000 |

Exports continued

carats

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|------------|------------|-------------|-------------|-------------|
| United Kingdom | | | | | |
| Unsorted | 4 030 600 | ... | 9 744 443 | 6 394 541 | 16 818 545 |
| Gem, rough | 69 542 709 | 86 681 020 | 104 300 972 | 78 613 304 | 76 400 064 |
| Gem, cut | 899 959 | 394 881 | 828 103 | 1 592 715 | 5 330 874 |
| Industrial | 11 861 312 | 7 837 074 | 12 177 638 | 22 821 714 | 21 647 850 |
| Dust | 88 612 930 | ... | 75 401 755 | 149 415 960 | 124 529 495 |

Note(s):-

- (1) Carats have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
(2) See explanatory notes at the front of the volume regarding currency conversion
(3) In this table the term 'Dust' corresponds to item 7105.10 of the Harmonised System and includes both natural and synthetic diamond dust

Imports of diamond

carats

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Austria | | | | | |
| Unsorted | £2 616 000 | £1 647 000 | £1 734 000 | £1 193 000 | £1 254 000 |
| Gem, cut | £4 963 000 | £3 789 000 | £4 329 000 | £4 660 000 | £5 743 000 |
| Industrial | £461 000 | £115 000 | £105 000 | £631 000 | £706 000 |
| Dust | 33 000 000 | 20 000 000 | 15 000 000 | 24 000 000 | 23 000 000 |
| Belgium-Luxembourg | | | | | |
| Unsorted | £80 231 000 | £45 615 000 | £36 269 000 | £41 932 000 | £37 971 000 |
| Gem, rough | 123 000 000 | ... | 126 000 000 | 121 500 000 | 134 500 000 |
| Gem, cut | 8 500 000 | 9 500 000 | 6 500 000 | 7 500 000 | 6 500 000 |
| Industrial | 25 000 000 | 26 500 000 | 19 500 000 | 15 000 000 | 14 500 000 |
| Dust | 56 500 000 | 72 000 000 | 21 000 000 | 26 500 000 | 30 500 000 |
| Czech Republic | | | | | |
| Unsorted | £156 000 | £128 000 | £187 000 | £3 000 | £300 |
| Gem, rough | £141 000 | £158 000 | ... | ... | £18 000 |
| Gem, cut | £226 000 | £382 000 | £802 000 | £626 000 | £1 046 000 |
| Industrial | £430 000 | £568 000 | £360 000 | £163 000 | £391 000 |
| Dust | £943 000 | £886 000 | £858 000 | £776 000 | £956 000 |
| Denmark | | | | | |
| Gem, cut | £4 302 000 | £4 006 000 | £10 290 000 | £9 319 000 | £6 506 000 |
| Finland | | | | | |
| Unsorted | 35 000 | ... | ... | 55 000 | 120 000 |
| Gem, cut | 160 000 | ... | ... | 235 000 | 355 000 |
| Industrial | 20 000 | ... | ... | ... | ... |
| Dust | 345 000 | 445 000 | 365 000 | 320 000 | 450 000 |
| France | | | | | |
| Unsorted | £5 592 000 | £3 788 000 | £3 728 000 | £3 423 000 | £3 168 000 |
| Gem, cut | 12 000 000 | 10 000 000 | 12 500 000 | 10 000 000 | ... |
| Industrial | 1 500 000 | 5 500 000 | 3 000 000 | 9 000 000 | ... |
| Dust | 24 000 000 | 10 500 000 | 10 500 000 | 10 000 000 | 7 500 000 |
| Germany | | | | | |
| Gem, cut | 476 717 | 556 534 | 431 612 | 481 924 | 439 171 |
| Industrial | 2 278 364 | 1 074 120 | 454 003 | 762 967 | 1 572 864 |
| Dust | 67 250 000 | 49 500 000 | 69 000 000 | 82 500 000 | 38 500 000 |
| Greece | | | | | |
| Unsorted | £223 000 | £367 000 | £340 000 | £625 000 | £597 000 |
| Gem, rough | £6 000 | £83 000 | £166 000 | £145 000 | £357 000 |
| Gem, cut | £1 824 000 | £1 437 000 | £1 130 000 | £1 701 000 | £1 893 000 |
| Industrial | £58 000 | £220 000 | £456 000 | £771 000 | £959 000 |
| Dust | 6 825 000 | 9 520 000 | 6 205 000 | 8 390 000 | ... |
| Hungary | | | | | |
| Dust | 1 269 915 | ... | ... | ... | ... |
| Irish Republic | | | | | |
| Unsorted | 48 655 000 | 19 505 000 | 22 665 000 | 33 525 000 | 39 900 000 |
| Gem, rough | 2 140 000 | ... | 8 225 000 | 1 815 000 | 3 815 000 |
| Gem, cut | 45 300 000 | 30 805 000 | 23 370 000 | 21 175 000 | 36 975 000 |
| Industrial | 46 820 000 | 95 650 000 | 3 930 000 | 26 740 000 | 30 680 000 |
| Dust | £18 208 000 | £27 972 000 | £41 933 000 | £29 021 000 | £42 591 000 |

Diamond

Imports continued

carats

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|--------------|--------------|--------------|--------------|--------------|
| Italy | | | | | |
| Unsorted | £1 087 000 | £1 680 000 | £1 138 000 | £1 655 000 | £2 576 000 |
| Gem, rough | £890 000 | £1 425 000 | £1 241 000 | £928 000 | £1 591 000 |
| Gem, cut | £236 885 000 | £176 777 000 | £180 528 000 | £210 629 000 | £235 326 000 |
| Industrial | £6 802 000 | £6 699 000 | £4 647 000 | £5 949 000 | £5 236 000 |
| Dust | 101 940 000 | 147 020 000 | 117 845 000 | 135 820 000 | 142 000 000 |
| Netherlands | | | | | |
| Unsorted | £2 021 000 | £2 276 000 | £1 858 000 | £3 327 000 | £344 000 |
| Gem, rough | £2 135 000 | £2 950 000 | £828 000 | £108 000 | £79 000 |
| Gem, cut | £20 034 000 | £17 776 000 | £13 846 000 | £14 630 000 | £14 764 000 |
| Industrial | £850 000 | £827 000 | £940 000 | £907 000 | £2 009 000 |
| Norway | | | | | |
| Unsorted | 45 000 | 100 000 | 125 000 | 45 000 | ... |
| Gem | 1 965 000 | 2 330 000 | 2 165 000 | 2 430 000 | 2 895 000 |
| Industrial | 90 000 | 80 000 | 80 000 | 75 000 | 135 000 |
| Dust | 220 000 | 500 000 | 105 000 | 310 000 | 230 000 |
| Poland | | | | | |
| Gem | 10 000 | 15 000 | 50 000 | ... | ... |
| Industrial | 165 000 | 105 000 | 75 000 | ... | ... |
| Portugal | | | | | |
| Gem, rough | £20 914 000 | £24 832 000 | £26 362 000 | £18 757 000 | £10 968 000 |
| Gem, cut | £8 758 000 | £5 367 000 | £3 926 000 | £11 608 000 | £7 015 000 |
| Industrial | £738 000 | £874 000 | £803 000 | £669 000 | £565 000 |
| Dust | 740 000 | 750 000 | 690 000 | 710 000 | ... |
| Slovenia | | | | | |
| Gem, cut | 25 000 | 15 000 | ... | ... | ... |
| Industrial | 90 000 | 50 000 | ... | ... | ... |
| Dust | 1 505 000 | 2 040 000 | ... | ... | ... |
| Spain | | | | | |
| Unsorted | £2 679 000 | £4 900 000 | £4 602 000 | £5 431 000 | £6 908 000 |
| Gem, cut | £27 660 000 | £25 162 000 | £25 111 000 | £41 732 000 | £37 408 000 |
| Industrial | £4 508 000 | £1 674 000 | £1 809 000 | £1 412 000 | £1 421 000 |
| Dust | 6 555 000 | 3 435 000 | 5 545 000 | ... | 8 490 229 |
| Sweden | | | | | |
| Unsorted | £84 000 | £156 000 | £203 000 | £309 000 | £220 000 |
| Gem, cut | £3 634 000 | £2 337 000 | £3 456 000 | £3 205 000 | £2 406 000 |
| Industrial | £116 000 | £51 000 | £30 000 | £63 000 | £258 000 |
| Dust | £5 248 000 | £2 554 000 | £2 374 000 | £2 823 000 | £2 573 000 |
| Switzerland | | | | | |
| Gem, rough | 3 475 000 | 75 000 | 80 344 | 144 707 | 194 997 |
| Gem, cut | 875 000 | 850 000 | 642 870 | 820 021 | 1 130 984 |
| Industrial | 735 000 | 1 160 000 | 213 535 | 56 907 | 100 142 |
| Dust | 89 730 000 | 94 935 000 | 103 005 000 | 126 815 000 | 142 000 000 |
| Turkey | | | | | |
| Gem | 2 725 000 | ... | ... | 1 225 000 | 1 450 000 |
| Dust | 4 725 000 | ... | ... | 15 900 000 | 26 765 000 |
| United Kingdom | | | | | |
| Unsorted | 586 774 | 1 794 607 | 5 210 022 | 10 557 063 | 33 441 810 |
| Gem, rough | 81 302 570 | 70 336 037 | 77 712 486 | 68 227 020 | 78 735 595 |
| Gem, cut | 4 396 223 | 5 123 898 | 4 520 872 | 9 317 146 | 12 039 040 |
| Industrial | 7 344 542 | 7 804 225 | 21 518 053 | 30 993 560 | 25 367 064 |
| Dust | 74 756 325 | 68 359 660 | 92 290 565 | 126 277 015 | 125 510 400 |

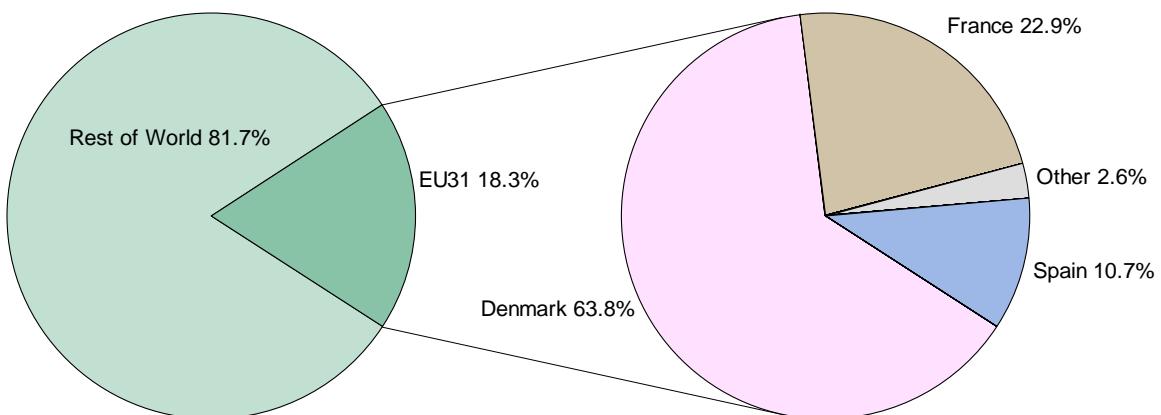
Note(s) :-

- (1) Carats have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national figure has been converted to £ sterling
- (2) See explanatory notes at the front of the volume regarding currency conversion
- (3) In this table the term 'Dust' corresponds to item 7105.10 of the Harmonised System and includes both natural and synthetic diamond dust

Diatomite

- Diatomite is a siliceous sedimentary rock composed of the skeletons of fossilised diatoms (microscopic plants). Clay content of the rock has a strong control on the quality of the diatomite. Diatomite is valued for its high porosity, chemical inertness and ability to absorb liquids. It is used in industry within high-quality filters, as a filler and as an industrial absorbent
- The USA is the largest producer of diatomite, with 36% of the world production. EU31 production has been reasonably stable and is dominated by Denmark, which produces 64% of EU31 diatomite. Together, the EU31 countries produced 18% of the world's diatomite in 2005.
- Diatomite (US calcined filter-aids delivered to the UK) traded between £370/tonne and £410/tonne during 2005.

EU31 Production of diatomite 2005



Production of diatomite

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Czech Republic | 5 200 | 5 600 | 4 800 | 5 100 | 4 100 |
| Denmark | | | | | |
| Moler (a) | 192 000 | 211 000 | 221 000 | 188 000 | 209 000 |
| France | *85 000 | *80 000 | *80 000 | *75 000 | *75 000 |
| Hungary | 1 323 | 1 656 | 1 770 | 1 640 | 2 190 |
| Poland | *1 000 | *1 000 | *700 | *800 | *700 |
| Portugal | 387 | — | — | — | — |
| Romania | 9 743 | 20 922 | 33 296 | 20 626 | 1 402 |
| Spain (b) | 70 000 | 53 558 | 57 934 | 33 799 | 35 000 |
| EU31 Total | 365 000 | 374 000 | 400 000 | 325 000 | 327 000 |

Note(s):-

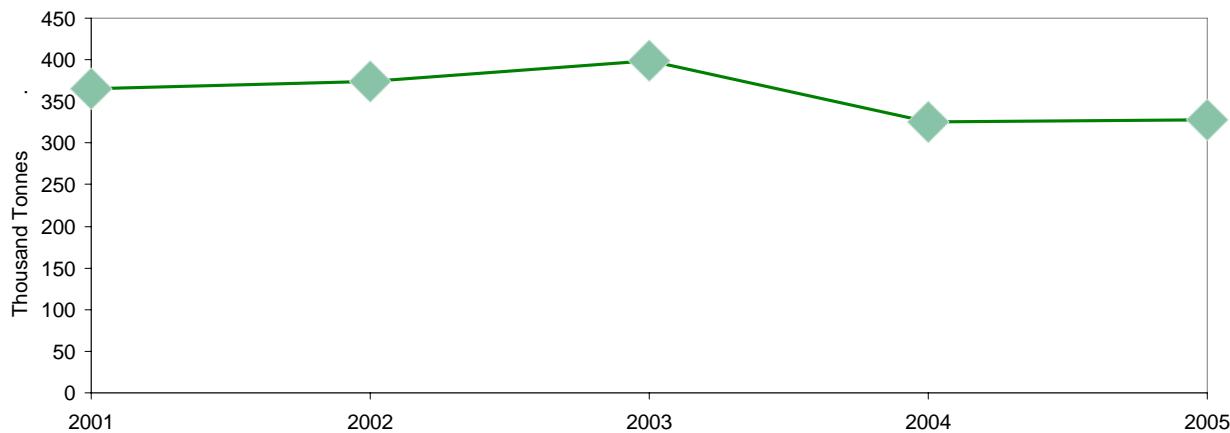
(1) In addition to the countries listed, Turkey is believed to produce diatomite

(a) Moler is an impure diatomite containing a large proportion of clay

(b) Including Tripoli

Diatomite

EU31 Production of diatomite 2001 - 05



Exports of diatomite

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 5 802 | 5 071 | 4 650 | 5 347 | 5 375 |
| Belgium-Luxembourg | 3 575 | 3 174 | 1 512 | 1 856 | 1 330 |
| Czech Republic | 5 493 | 5 288 | 5 083 | 4 734 | 4 247 |
| Denmark | *80 000 | *90 000 | *90 000 | *90 000 | *90 000 |
| France | 28 149 | 27 647 | 30 199 | 26 043 | 25 379 |
| Germany | 5 267 | 13 061 | 20 036 | 20 312 | 7 000 |
| Hungary | 264 | 308 | 284 | 452 | 12 |
| Italy | 1 776 | 1 194 | 1 217 | 1 745 | 1 138 |
| Netherlands | 1 105 | 6 583 | 1 212 | 1 569 | 804 |
| Portugal | ... | ... | 2 050 | 7 755 | 11 |
| Spain | 4 467 | 6 829 | 5 385 | 5 278 | 6 694 |
| Sweden | 1 605 | 579 | 491 | 492 | 4 423 |
| Switzerland | 485 | 1 224 | 110 | 114 | 136 |
| Turkey | 387 | 4 653 | 11 294 | 14 581 | 11 045 |
| United Kingdom | 1 342 | 816 | 1 003 | 2 123 | 708 |

Imports of diatomite

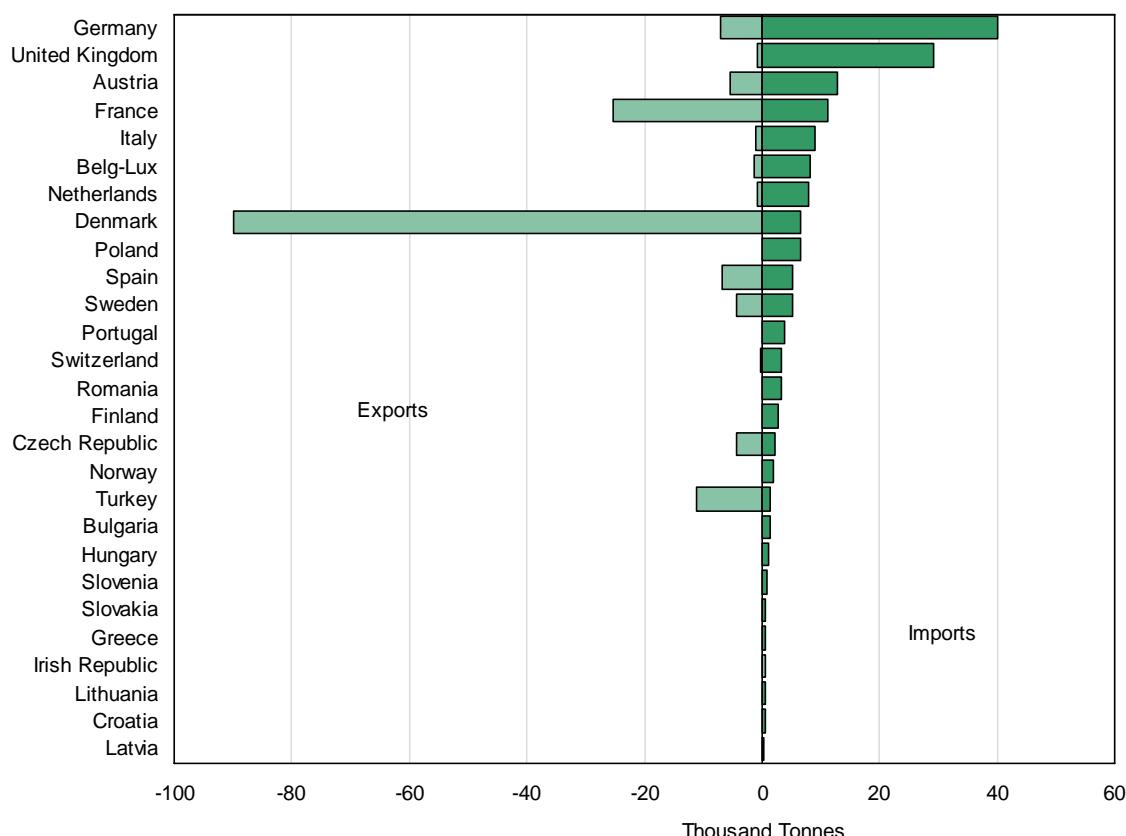
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Austria | 21 396 | 24 364 | 12 946 | 13 178 | 12 892 |
| Belgium-Luxembourg | 9 067 | 8 357 | 7 507 | 9 052 | 8 192 |
| Bulgaria | 1 198 | 8 478 | 1 139 | 1 292 | 1 312 |
| Croatia | 1 232 | 928 | 809 | 703 | 495 |
| Czech Republic | 1 695 | 1 647 | 1 562 | 1 969 | 2 263 |
| Denmark | 5 728 | 7 175 | 6 744 | 5 001 | 6 561 |
| Finland | 2 996 | 5 871 | 6 981 | 5 881 | 2 700 |
| France | 12 725 | 12 168 | 12 194 | 12 368 | 11 181 |
| Germany | 35 286 | 34 820 | 43 406 | 48 644 | 40 224 |
| Greece | 504 | 529 | 556 | 610 | 645 |
| Hungary | 2 845 | 1 633 | 1 593 | 1 390 | 1 158 |
| Irish Republic | 286 | 450 | 729 | 594 | 641 |
| Italy | 7 047 | 8 990 | 10 429 | 14 744 | 9 141 |
| Latvia | 263 | 236 | 392 | 592 | 389 |
| Lithuania | 319 | 503 | 1 499 | 917 | 520 |
| Netherlands | 11 800 | 12 979 | 12 069 | 10 806 | 7 967 |
| Norway | 2 021 | 1 400 | 1 596 | 2 500 | 2 044 |
| Poland | 7 284 | 6 961 | 6 394 | 6 387 | 6 465 |
| Portugal | 1 771 | 1 537 | 3 223 | 2 263 | 3 946 |
| Romania | 2 980 | 2 909 | 3 267 | 3 294 | 3 183 |
| Slovakia | 1 406 | 1 283 | 1 067 | 865 | 675 |
| Slovenia | 503 | 446 | 450 | 730 | 846 |
| Spain | 5 349 | 4 442 | 10 575 | 7 004 | 5 186 |

Imports continued

tonnes

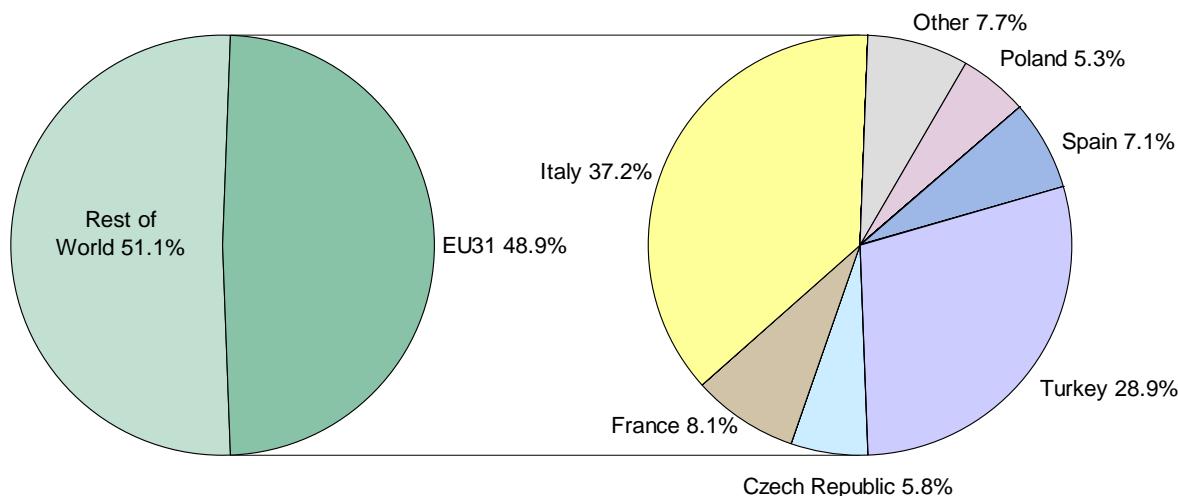
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|--------|--------|--------|--------|--------|
| Sweden | 4 684 | 3 913 | 4 143 | 5 475 | 5 096 |
| Switzerland | 4 332 | 3 534 | 5 425 | 11 204 | 3 291 |
| Turkey | 1 211 | 1 185 | 1 736 | 1 211 | 1 442 |
| United Kingdom | 33 474 | 34 490 | 37 217 | 34 988 | 29 208 |

Diatomite – EU31 trade in 2005

Feldspar

- Feldspar is an abundant rock-forming alumino-silicate mineral. It is an essential component of glass and ceramic manufacture where it behaves as a flux and adds hardness, durability and resistance to corrosion.
- Italy, with its large glass manufacturing industry, is the largest world producer (18%). Together, the EU31 countries produced 49% of world feldspar production in 2005.
- Feldspar is traded in several forms, priced between \$13/tonne (crude)–\$205/tonne (micronised).

EU31 Production of feldspar 2005



Production of feldspar

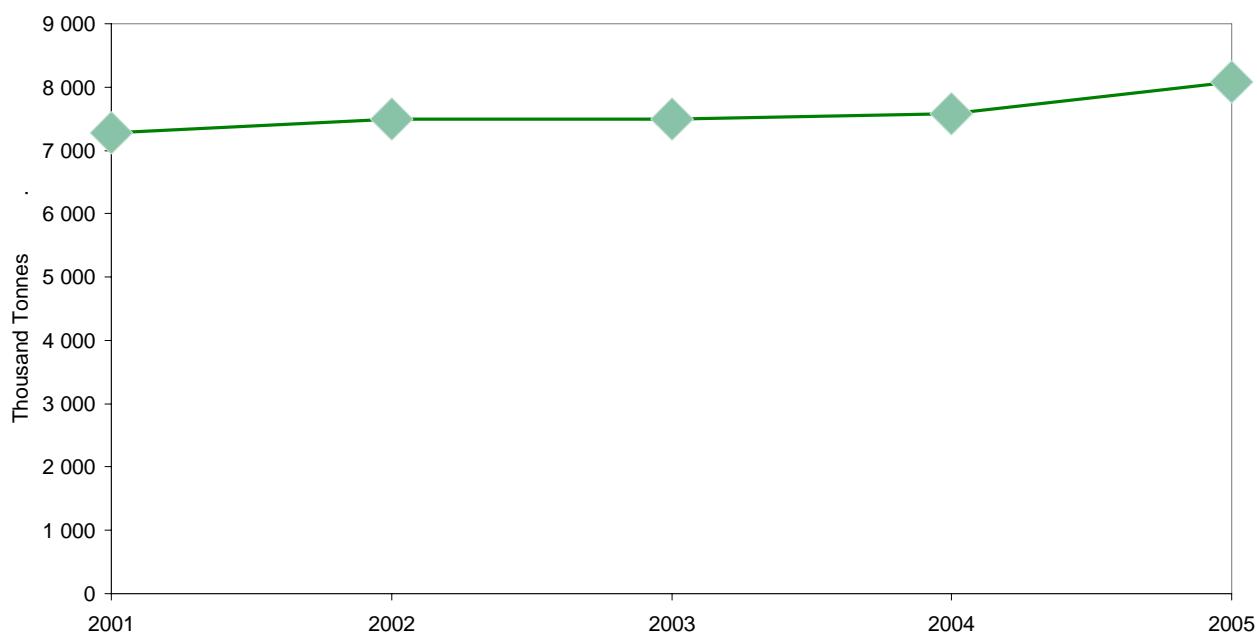
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|------------|
| Bulgaria | 23 000 | *34 000 | *35 000 | *35 000 | *35 000 |
| Czech Republic | 373 000 | 401 000 | 421 000 | 488 000 | 472 000 |
| Finland | 36 145 | 39 552 | 59 362 | 44 495 | 42 783 |
| France | 720 000 | 659 000 | 654 000 | 628 000 | 651 000 |
| Germany | 302 650 | 243 368 | 233 028 | 182 842 | 168 640 |
| Greece | 126 400 | 124 100 | 102 800 | 88 274 | 100 586 |
| Italy | 3 240 457 | 3 159 569 | 2 972 187 | 2 941 272 | *3 000 000 |
| Norway | 79 510 | 75 184 | 70 000 | 67 000 | *67 000 |
| Poland | 145 980 | 209 226 | 276 264 | 373 459 | 426 914 |
| Portugal | 112 923 | 141 125 | 129 366 | 98 262 | *100 000 |
| Romania | 43 037 | 51 959 | 72 827 | 60 924 | 74 927 |
| Spain | *520 000 | 548 964 | 563 580 | 552 507 | 570 000 |
| Sweden | 40 000 | 37 000 | 44 000 | 38 000 | 30 000 |
| Turkey | 1 510 293 | 1 766 387 | 1 862 310 | 1 983 336 | 2 331 971 |
| United Kingdom (a) | 2 995 | 1 896 | 1 309 | 2 274 | 2 000 |
| EU31 Total | 7 276 000 | 7 492 000 | 7 497 000 | 7 584 000 | 8 073 000 |

Note(s):-

(1) In addition to the countries listed, Slovakia is believed to produce feldspar

(a) China stone

EU31 Production of feldspar 2001 - 05**Exports of feldspar**

tonnes

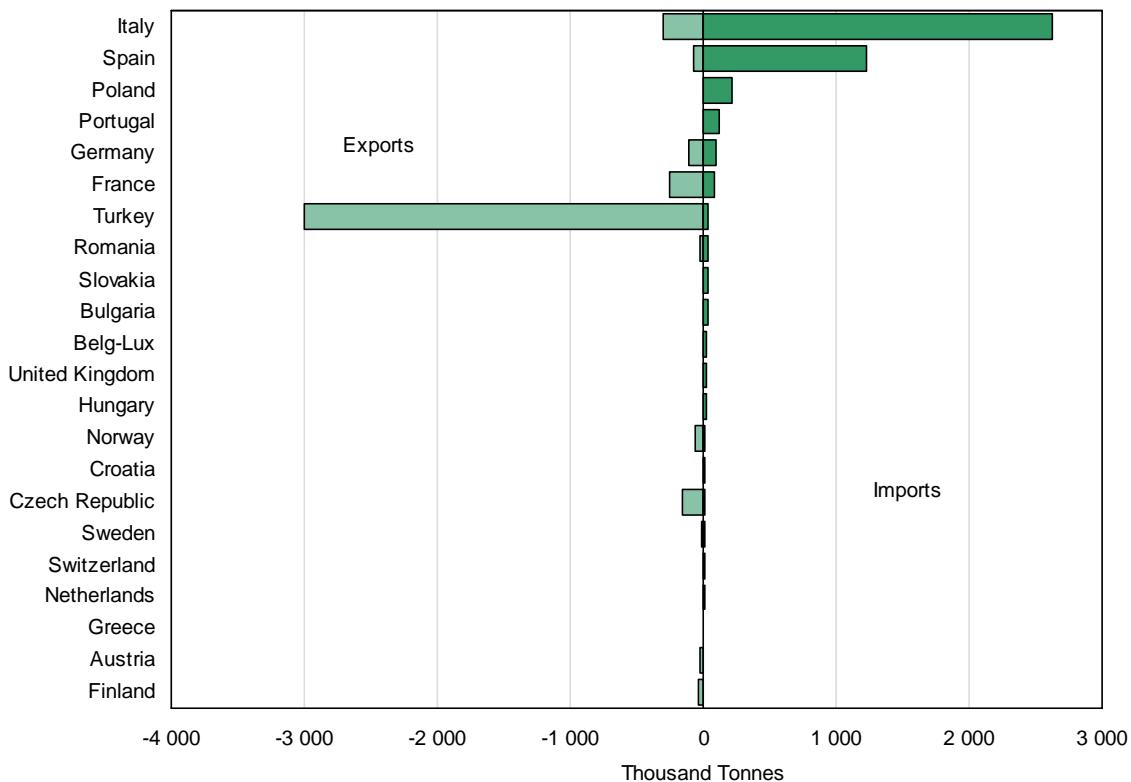
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 10 174 | 12 279 | 13 436 | 18 864 | 18 998 |
| Czech Republic | 131 699 | 122 206 | 133 868 | 143 941 | 160 469 |
| Finland | 32 570 | 30 444 | 33 632 | 42 612 | 37 386 |
| France | 385 161 | 290 340 | 286 371 | 219 741 | 255 836 |
| Germany | 63 736 | 134 033 | 102 472 | 118 838 | 113 329 |
| Greece | 67 | 16 764 | 25 176 | 8 515 | 4 755 |
| Italy | 128 544 | 159 403 | 165 128 | 204 096 | 302 715 |
| Netherlands | 693 | 808 | 749 | 81 | 17 |
| Norway | 82 030 | 74 549 | 68 076 | 60 972 | 58 821 |
| Poland | 562 | 649 | 1 626 | 1 441 | 1 509 |
| Portugal | 147 | 603 | 5 | — | 1 546 |
| Romania | 2 977 | 15 465 | 33 265 | 28 820 | 28 859 |
| Spain | 52 161 | 79 520 | 65 385 | 71 993 | 66 427 |
| Sweden | 27 662 | 25 400 | 23 847 | 23 752 | 16 515 |
| Turkey | 1 208 808 | 2 162 841 | 3 027 769 | 3 971 725 | 3 001 789 |
| United Kingdom | 93 | 209 | 801 | 261 | 48 |

Imports of feldspar

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 4 213 | 1 608 | 1 083 | 418 | 1 549 |
| Belgium-Luxembourg | 25 250 | 24 632 | 30 225 | 30 969 | 25 876 |
| Bulgaria | 22 072 | 21 852 | 23 367 | 30 805 | 34 723 |
| Croatia | 10 491 | 10 609 | 11 894 | 13 713 | 17 011 |
| Czech Republic | 7 226 | 7 975 | 7 388 | 8 785 | 13 315 |
| Denmark | 5 753 | 4 698 | 3 904 | 3 878 | 3 868 |
| Finland | 742 | 352 | 104 | 257 | 380 |
| France | 29 741 | 40 941 | 37 538 | 44 615 | 85 460 |
| Germany | 51 965 | 43 033 | 50 809 | 70 064 | 101 931 |
| Greece | 7 466 | 4 599 | 5 216 | 499 | 3 032 |
| Hungary | 19 213 | 20 250 | 19 131 | 19 205 | 20 184 |
| Italy | 1 865 170 | 1 871 798 | 2 291 993 | 2 693 951 | 2 623 428 |
| Lithuania | 5 065 | 3 259 | 3 380 | 7 461 | 4 166 |
| Netherlands | 7 531 | 11 603 | 11 084 | 9 606 | 7 721 |
| Norway | 14 040 | 13 589 | 13 710 | 15 490 | 17 103 |
| Poland | 144 145 | 168 167 | 155 283 | 201 509 | 215 185 |
| Portugal | 72 198 | 87 177 | 79 521 | 96 049 | 115 286 |
| Romania | 34 378 | 35 924 | 41 385 | 38 470 | 39 448 |
| Slovakia | 29 202 | 27 596 | 48 100 | 39 689 | 36 989 |
| Slovenia | 5 232 | 4 870 | 8 605 | 10 045 | 5 852 |
| Spain | 501 395 | 593 452 | 760 473 | 955 039 | 1 231 861 |
| Sweden | 6 430 | 6 765 | 5 960 | 7 019 | 9 387 |
| Switzerland | 7 408 | 7 541 | 7 229 | 8 347 | 7 977 |
| Turkey | 19 803 | 5 269 | 26 977 | 40 733 | 40 739 |
| United Kingdom | 18 361 | 33 196 | 25 764 | 31 601 | 23 139 |

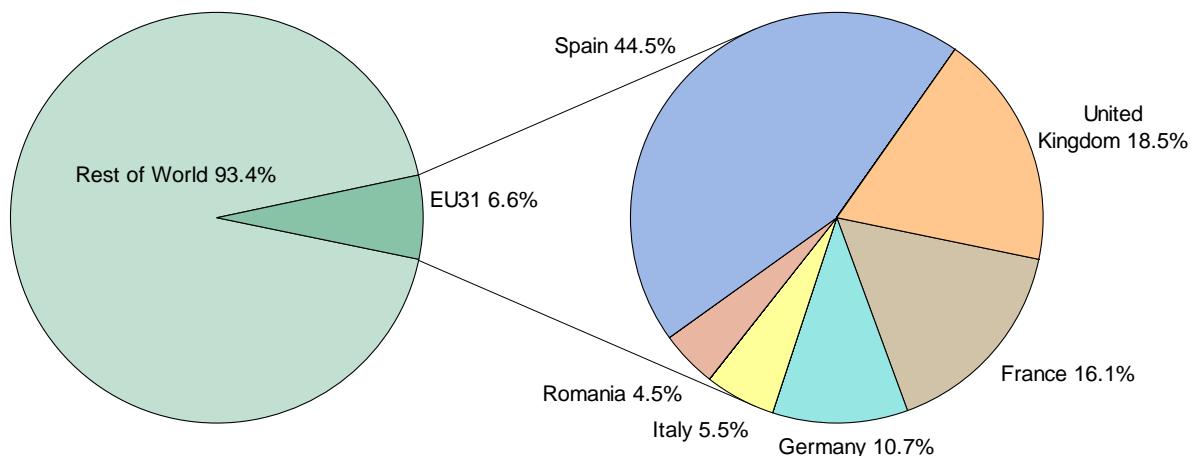
Feldspar – EU31 trade in 2005



Fluorspar

- Fluorspar is the commercial name for the mineral fluorite (calcium fluoride) and it is an important raw material source of fluorine. Most fluorspar production is used in the manufacture of hydrofluoric acid. Fluorspar is also used in steel and aluminium manufacture, although its use is declining.
- China dominated world production, producing 51% of all fluorspar in 2005. The EU31 countries represent 7% of world fluorspar production. Spain and the UK were the largest EU31 producers.
- Fluorspar is more sensitive to price variability than most other industrial minerals. During 2005 the price was stable, trading between \$230–\$240/tonne CIF US Gulf Port.

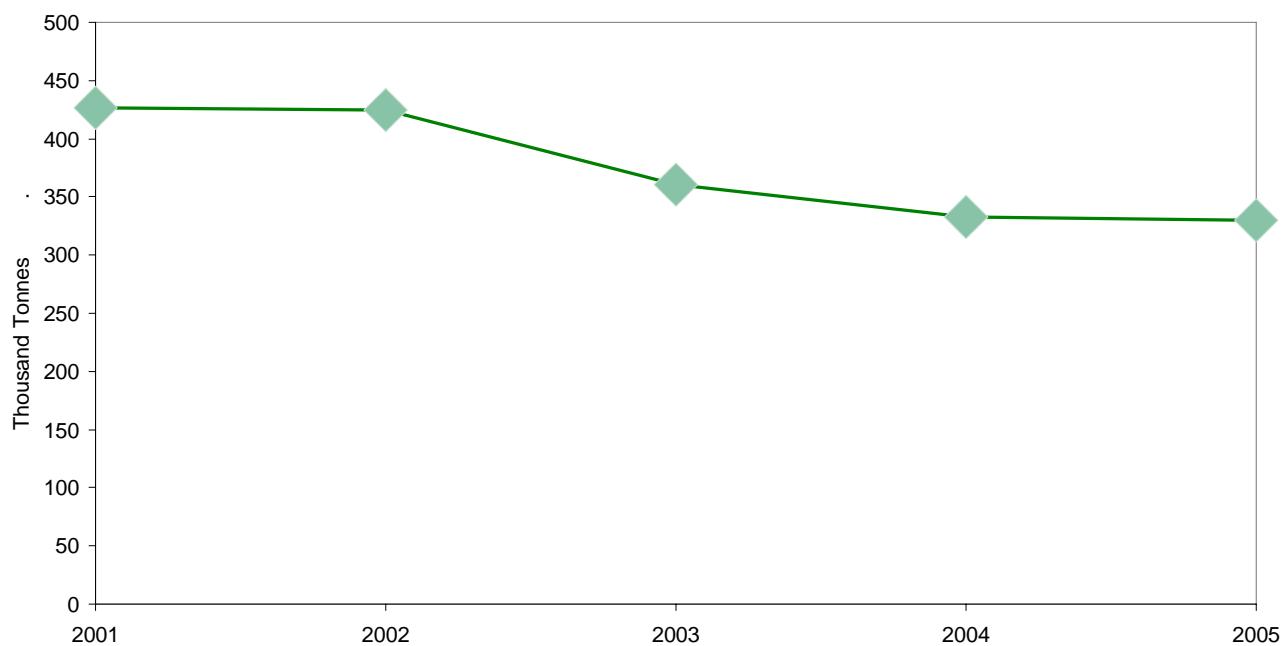
EU31 Production of fluorspar 2005



Production of fluorspar

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Bulgaria | 300 | — | — | — | — |
| France | 123 000 | 122 000 | 90 000 | 70 000 | 53 000 |
| Germany | 30 381 | 34 429 | 33 289 | 33 203 | 35 364 |
| Italy | 70 160 | 53 260 | 26 387 | 17 915 | ... |
| Romania | *15 000 | *15 000 | *15 000 | *15 000 | *15 000 |
| Spain | 134 039 | 141 434 | 139 266 | 145 694 | 146 890 |
| Turkey | 3 752 | 5 344 | 718 | 880 | 800 |
| United Kingdom | *50 000 | *53 000 | *56 000 | 50 080 | 60 980 |
| EU31 Total | 427 000 | 424 000 | 361 000 | 333 000 | 330 000 |

EU31 Production of fluorspar 2001 - 05**Exports of fluorspar**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Belgium-Luxembourg | 298 | 219 | 22 639 | 4 208 | 26 395 |
| Czech Republic | 9 442 | 8 131 | 23 471 | 10 073 | 8 677 |
| France | 38 023 | 47 439 | 18 519 | 12 002 | 6 821 |
| Germany | 16 634 | 22 274 | 17 105 | 17 594 | 24 061 |
| Italy | 20 709 | 31 142 | 28 222 | 20 607 | 28 699 |
| Netherlands | 7 399 | 12 752 | 19 186 | 3 019 | 37 113 |
| Spain | 1 132 | 1 106 | 1 745 | 2 221 | 4 434 |
| Sweden | 5 603 | 5 998 | 8 981 | 8 702 | 8 206 |
| United Kingdom | 2 373 | 636 | 519 | 4 593 | 5 803 |

Imports of fluorspar

tonnes

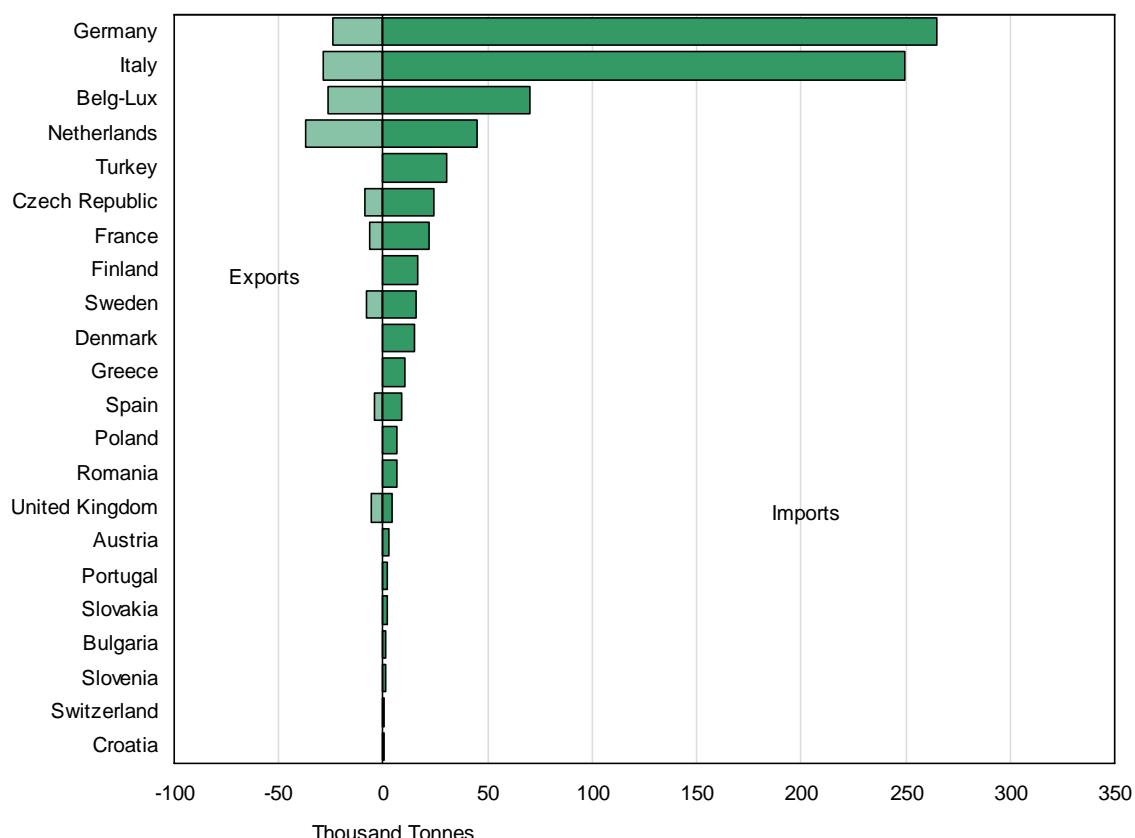
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 3 514 | 3 448 | 2 125 | 3 078 | 2 561 |
| Belgium-Luxembourg | 13 662 | 11 565 | 33 622 | 10 571 | 70 149 |
| Bulgaria | 22 601 | 1 296 | 2 143 | 1 882 | 1 210 |
| Croatia | 155 | 164 | 152 | 204 | 143 |
| Cyprus | 496 | 7 607 | 8 901 | 5 | ... |
| Czech Republic | 27 785 | 18 182 | 16 628 | 28 408 | 24 009 |
| Denmark | 1 238 | 6 971 | 12 406 | 16 005 | 15 124 |
| Finland | 10 892 | 10 089 | 18 672 | 17 069 | 16 597 |
| France | 3 355 | 3 510 | 7 006 | 10 457 | 21 526 |
| Germany | 266 764 | 272 913 | 234 067 | 302 071 | 264 896 |
| Greece | 11 210 | 12 582 | 10 579 | 20 720 | 10 681 |
| Hungary | 6 006 | 3 626 | 3 907 | 4 366 | ... |
| Italy | 209 672 | 162 510 | 226 780 | 212 975 | 249 756 |
| Netherlands | 65 422 | 55 212 | 63 896 | 108 312 | 45 073 |
| Norway | 38 862 | 13 589 | — | — | ... |
| Poland | 4 789 | 5 609 | 5 858 | 7 501 | 6 290 |
| Portugal | 1 243 | 1 196 | 574 | 158 | 1 633 |
| Romania | 7 314 | 6 653 | 5 547 | 4 117 | 6 285 |
| Slovakia | 2 393 | 1 797 | 1 965 | 1 574 | 1 615 |
| Slovenia | 939 | 1 148 | 1 113 | 1 178 | 1 031 |
| Spain | 18 819 | 17 878 | 8 538 | 15 006 | 8 575 |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|--------|--------|--------|--------|--------|
| Sweden | 16 103 | 16 978 | 19 117 | 14 640 | 15 790 |
| Switzerland | 497 | 916 | 413 | 991 | 714 |
| Turkey | 16 100 | 13 790 | 18 208 | 31 908 | 30 446 |
| United Kingdom | 34 999 | 26 690 | 21 360 | 25 092 | 4 051 |

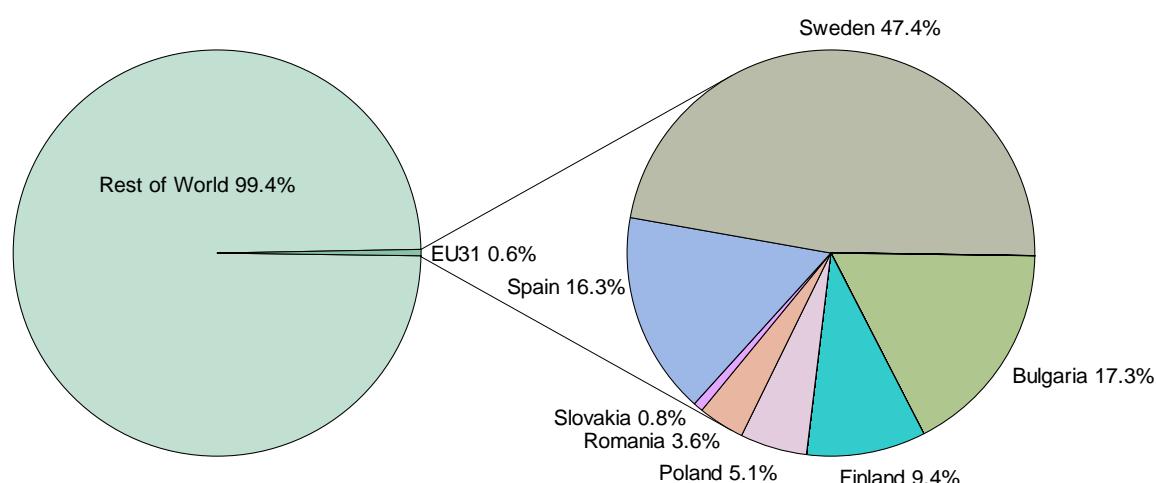
Fluorspar – EU31 trade in 2005



Gold

- Gold is a soft, malleable metallic element unaffected by air or most reagents. It is highly valued as an investment commodity, in jewellery and in specialist electronic applications.
- South Africa, Australia and the USA were the three largest gold producers in 2005 with 34% of world production. In the EU31 Sweden (47%) and Bulgaria (17%) were the largest producers in 2005. The EU31 produced less than 1% of world output in 2005. In Europe, gold is chiefly a by-product of base metal mining.
- The gold market can be volatile and is subject to several key factors (the strongest of which seem to be investor confidence and the US dollar). Speculative buying and geopolitical tensions also contributed to the elevated prices seen during 2005. In 2005, gold traded at an annual average of US\$445/oz. Gold prices continued to increase in 2005, breaking through the US\$500/oz barrier towards year-end, the highest level for 15 years.

EU31 Production of gold 2005



Mine production of gold

kilograms (metal content)

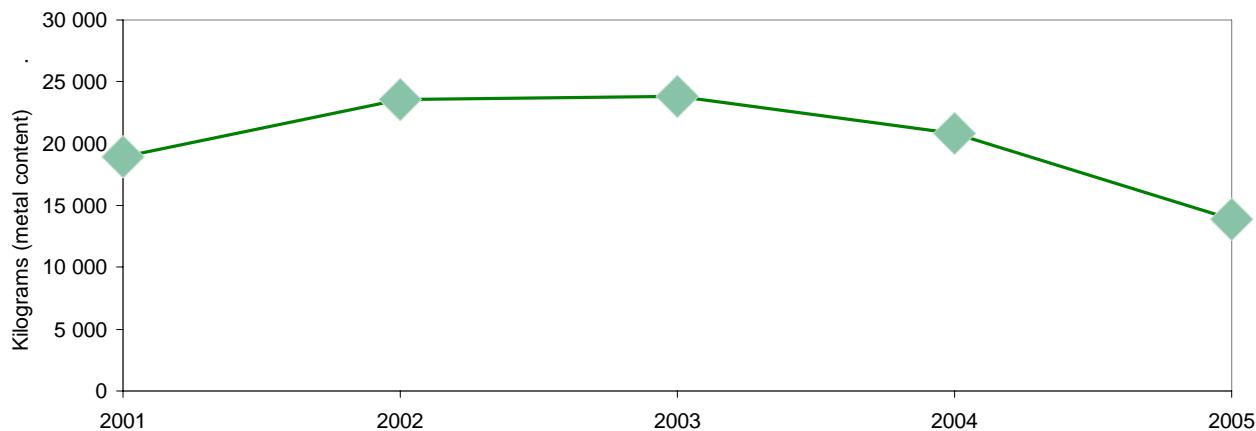
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|--------|--------|--------|--------|--------|
| Bulgaria | 1 700 | 2 612 | 2 270 | 2 431 | *2 400 |
| Finland | 1 700 | 1 300 | *1 200 | *1 300 | *1 300 |
| France | 2 512 | 1 724 | 1 470 | — | — |
| Italy | 522 | 631 | *100 | — | — |
| Poland (a) | 349 | 296 | 356 | 527 | 713 |
| Romania | 1 600 | 1 137 | 1 878 | 1 430 | *500 |
| Slovakia | 157 | 77 | 79 | 107 | 109 |
| Spain | 4 277 | 5 559 | 5 212 | 5 248 | 2 260 |
| Sweden | 4 986 | 5 757 | 5 900 | 6 564 | 6 564 |
| Turkey | *1 100 | *4 500 | 5 370 | 3 260 | — |
| EU31 Total | 19 000 | 24 000 | 24 000 | 21 000 | 14 000 |

Note(s):-

- (1) In several countries substantial amounts of gold produced in small operations are not recorded in the official statistics used when compiling this table
- (2) Greece and Norway are believed to produce gold

(a) Metal production

EU31 Production of gold 2001 - 05



Exports of gold

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Austria | | | | | |
| Metal | 16 800 | 18 000 | 10 900 | 11 500 | 8 500 |
| Waste & scrap | 44 900 | 5 600 | 2 500 | 2 900 | 5 500 |
| Belgium-Luxembourg | | | | | |
| Metal | 3 200 | 2 000 | 500 | 1 200 | 100 |
| Waste & scrap | £1 365 000 | ... | £1 316 000 | ... | ... |
| Czech Republic | | | | | |
| Metal | 4 431 | 5 468 | 5 113 | 12 247 | 1 100 |
| Waste & scrap | 1 373 | 2 453 | 1 349 | 31 | 600 |
| Denmark | | | | | |
| Metal | 854 | 4 979 | 894 | ... | ... |
| Waste & scrap | 7 789 | 807 | 343 | 1 | 120 |
| Estonia | | | | | |
| Waste & scrap | 8 044 | 9 895 | 8 812 | ... | 3 |
| Finland | | | | | |
| Waste & scrap | 912 | 762 | 929 | 368 | 778 |
| France | | | | | |
| Metal | 31 900 | 29 700 | 34 600 | 31 500 | 18 100 |
| Waste & scrap | 77 800 | 40 800 | 33 700 | 70 500 | 29 600 |
| Germany | | | | | |
| Metal | 78 100 | 45 400 | 36 400 | 36 500 | 47 600 |
| Waste & scrap | 1 517 300 | 1 734 400 | 651 000 | 170 065 | 30 600 |
| Greece | | | | | |
| Metal | 219 | 509 | 4 714 | 15 | 3 |
| Hungary | | | | | |
| Metal | 1 110 | 928 | ... | 826 | 200 |
| Irish Republic | | | | | |
| Metal | £35 000 | £389 000 | £784 000 | £1 076 000 | £942 000 |
| Waste & scrap | £3 850 000 | £1 623 000 | £1 520 000 | £1 672 000 | £1 429 000 |
| Italy | | | | | |
| Metal | 31 299 | 32 091 | 36 047 | 44 180 | 60 480 |
| Latvia | | | | | |
| Waste & scrap | 137 | 1 | 72 | ... | ... |
| Lithuania | | | | | |
| Waste & scrap | 10 140 | 20 | 100 | ... | ... |
| Netherlands | | | | | |
| Metal | 28 356 | 9 601 | 8 094 | 24 557 | 11 603 |
| Waste & scrap | 31 500 | 108 000 | 276 600 | 62 212 | 72 427 |
| Norway | | | | | |
| Metal | 2 647 | 2 554 | 2 527 | 2 293 | 2 415 |
| Waste & scrap | 5 007 | 1 102 | 174 | 127 | 137 |
| Poland | | | | | |
| Metal | 113 | 1 210 | 249 | ... | 100 |
| Waste & scrap | 2 767 | 3 239 | 8 477 | 4 074 | 1 100 |

Gold

Exports continued

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|---------|-----------|-----------|-----------|
| Portugal | | | | | |
| Waste & scrap | ... | ... | ... | 192 759 | 4 800 |
| Slovakia | | | | | |
| Metal | 133 | 255 | 325 | 274 | 268 |
| Waste & scrap | 494 | 1 600 | 1 012 | 357 | 986 |
| Slovenia | | | | | |
| Metal | 160 | 1 287 | 681 | 254 | 101 |
| Waste & scrap | 5 973 | — | 1 012 | 1 649 | — |
| Spain | | | | | |
| Metal | 2 046 | 3 867 | 4 793 | 6 490 | 3 520 |
| Waste & scrap | 14 030 | 1 126 | 784 | 2 908 | 38 |
| Sweden | | | | | |
| Metal | 6 000 | 12 000 | 10 000 | 19 000 | 18 000 |
| Waste & scrap | 79 000 | 24 000 | ... | 20 000 | 1 000 |
| Switzerland | | | | | |
| Metal | 1 266 166 | 922 468 | 885 907 | 1 125 319 | 1 340 912 |
| Waste & scrap | 27 274 | 16 868 | 14 039 | 55 166 | 2 823 |
| Turkey | | | | | |
| Metal | 4 670 | 11 263 | 11 455 | 9 722 | 29 624 |
| United Kingdom | | | | | |
| Metal | 405 319 | 198 805 | 82 892 | 407 467 | 638 262 |
| Waste & scrap | 493 588 | 548 843 | 1 074 829 | 471 657 | 541 399 |

Note(s):-

- (1) In this table the term 'metal' includes both unwrought and partly worked gold and alloys but excludes gold coin
- (2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (3) See explanatory notes at the front of the volume regarding currency conversion

Imports of gold

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Metal | 21 300 | 17 300 | 26 500 | 17 300 | 22 100 |
| Waste & scrap | 400 | 1 200 | 200 | 200 | 1 800 |
| Belgium-Luxembourg | | | | | |
| Metal | 2 300 | 3 200 | 9 100 | 12 400 | 14 400 |
| Croatia | | | | | |
| Metal | ... | 1 316 | 5 034 | 1 193 | 1 083 |
| Cyprus | | | | | |
| Metal | 1 223 | 938 | 4 561 | 313 | 359 |
| Czech Republic | | | | | |
| Metal | 1 402 | 1 288 | 1 596 | 1 957 | 769 |
| Waste & scrap | 392 | 175 | 338 | 1 911 | 13 000 |
| Denmark | | | | | |
| Metal | 911 | 796 | ... | ... | 2 075 |
| Waste & scrap | 842 | 62 | 57 | 46 | 72 |
| Estonia | | | | | |
| Metal | ... | 58 | 2 570 | 74 | 234 |
| Finland | | | | | |
| Metal | 1 677 | 1 132 | 1 230 | 1 332 | 949 |
| Waste & scrap | ... | 46 928 | 90 780 | 67 582 | 22 981 |
| France | | | | | |
| Metal | 42 500 | 35 100 | 30 900 | *30 000 | 27 700 |
| Waste & scrap | 335 000 | 4 600 | 12 500 | ... | 5 200 |
| Germany | | | | | |
| Metal | 71 600 | 44 400 | 40 100 | 49 800 | 56 500 |
| Waste & scrap | 1 583 000 | 2 021 200 | 1 153 500 | 1 375 800 | 1 923 600 |
| Greece | | | | | |
| Metal | 757 | 1 497 | 8 276 | 37 484 | 56 572 |
| Waste & scrap | 5 149 | 1 126 | 79 288 | — | ... |
| Hungary | | | | | |
| Metal | 194 | 127 | ... | ... | 1 000 |

Imports continued

kilograms

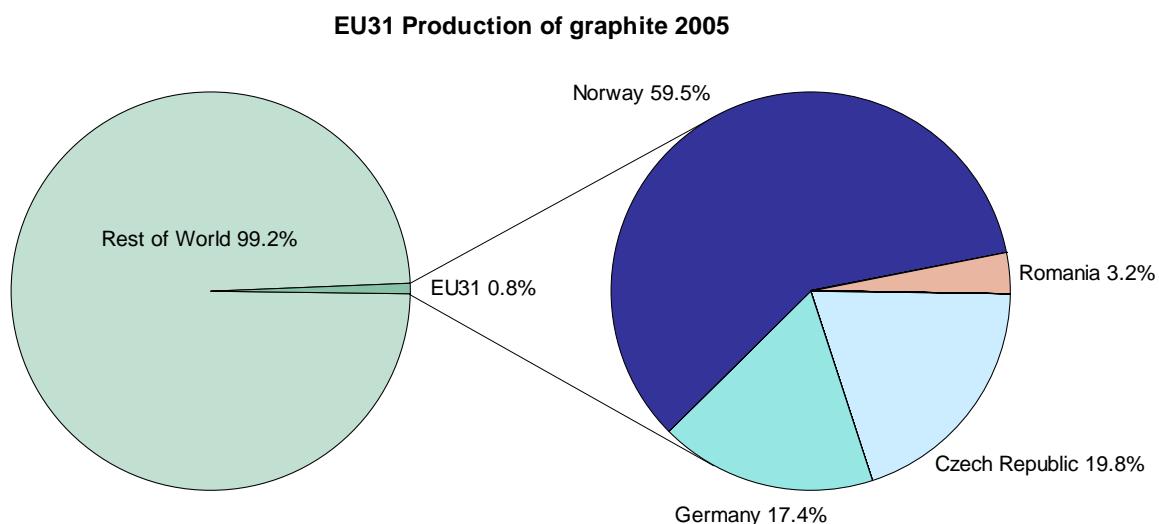
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|------------|------------|------------|------------|------------|
| Irish Republic | | | | | |
| Metal | £8 002 196 | £6 057 000 | £9 565 000 | £7 480 000 | £7 227 000 |
| Waste & scrap | 6 158 | 120 | 2 322 | 4 880 | 2 567 |
| Italy | | | | | |
| Metal | 398 542 | 358 654 | 281 157 | 274 841 | 250 938 |
| Waste & scrap | 15 694 | 7 584 | 1 685 | 3 612 | 904 |
| Malta | | | | | |
| Metal | 5 926 | 3 835 | 3 927 | 3 607 | 14 001 |
| Netherlands | | | | | |
| Metal | 19 215 | 11 825 | 10 318 | 16 275 | 24 679 |
| Waste & scrap | 1 000 | 561 | 1 044 | 1 | 1 |
| Norway | | | | | |
| Metal | 3 501 | 2 927 | 1 599 | 1 253 | 2 099 |
| Waste & scrap | 1 115 | 1 613 | 776 | 987 | 1 049 |
| Poland | | | | | |
| Metal | 985 | 774 | 588 | 2 301 | 100 |
| Portugal | | | | | |
| Metal | 4 791 | 3 303 | 1 893 | 655 | 6 074 |
| Slovakia | | | | | |
| Metal | 545 | 654 | 421 | ... | 123 |
| Slovenia | | | | | |
| Metal | 1 539 | 2 696 | 612 | 382 | 374 |
| Waste & scrap | 1 | ... | 256 | 363 | 4 219 |
| Spain | | | | | |
| Metal | 30 100 | 26 690 | 27 662 | 29 702 | 20 594 |
| Waste & scrap | 3 182 | 818 | 411 | 5 018 | 139 |
| Sweden | | | | | |
| Metal | £7 671 705 | £7 655 000 | £8 382 000 | £8 498 000 | £8 625 000 |
| Waste & scrap | £149 000 | £1 126 000 | — | £5 726 | £180 000 |
| Switzerland | | | | | |
| Metal | 1 360 081 | 1 217 189 | 1 218 361 | 1 048 386 | 1 650 117 |
| Waste & scrap | 45 122 | 48 626 | 32 454 | 52 053 | 72 764 |
| Turkey | | | | | |
| Metal | 111 958 | 142 013 | 225 021 | 262 519 | 403 415 |
| United Kingdom | | | | | |
| Metal | 972 188 | 1 280 970 | 1 414 697 | 1 053 100 | 460 239 |
| Waste & scrap | 167 513 | 122 639 | 231 365 | 274 919 | 66 198 |

Note(s) :-

- (1) In this table the term 'metal' includes both unwrought and partly worked gold but excludes gold coin
- (2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (3) See explanatory notes at the front of the volume regarding currency conversion

Graphite

- Graphite is a stable form of pure carbon. It is soft, has low friction and is inert. The major use of graphite is in refractories that can withstand the temperature of molten metals and slags. The graphite imparts high thermal shock resistance, useful in furnace components and crucibles. Other uses include lubricants and in brake linings.
- EU31 production has steadily declined since 1997 from 70 000 tonnes to 15 000 tonnes. China was the largest world producer in 2005 (83%).
- Graphite is traded in several different forms. During 2005 graphite traded between \$410 and \$795/tonne, depending largely on flake size.



Production of graphite

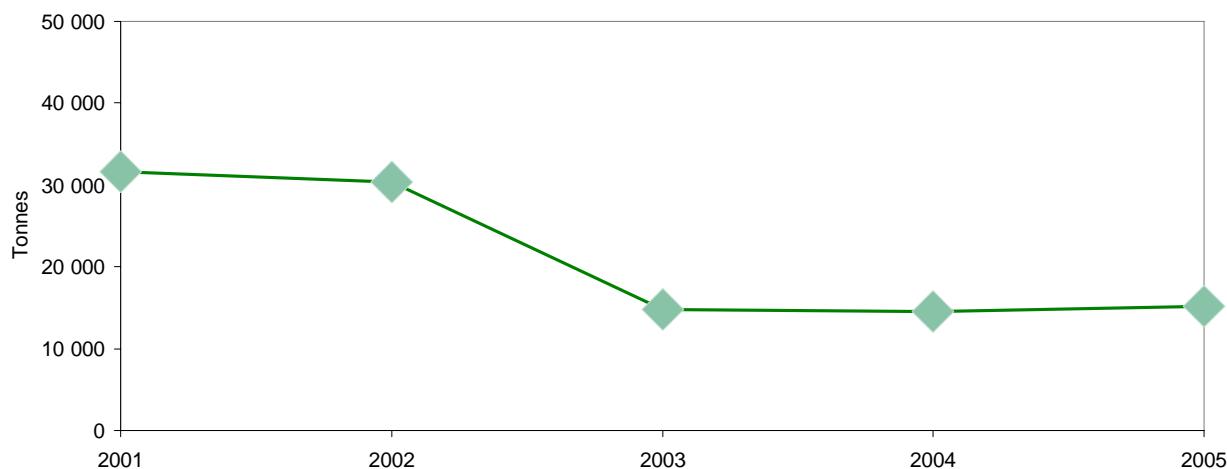
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|--------|--------|--------|--------|--------|
| Austria (a) | 116 | — | — | — | — |
| Czech Republic | 17 000 | 16 000 | 9 000 | 5 000 | 3 000 |
| Germany | 3 190 | 3 312 | 2 840 | 3 155 | 2 638 |
| Norway | 9 070 | 8 600 | 1 000 | 6 000 | 9 000 |
| Romania | 1 176 | 1 001 | 1 014 | 395 | 486 |
| Sweden | 1 035 | — | — | — | — |
| Turkey | ... | 1 393 | 942 | *28 | — |
| EU31 Total | 32 000 | 30 000 | 15 000 | 15 000 | 15 000 |

Note(s):-

(1) This table includes all forms of amorphous and crystalline graphite but excludes synthetic material

(a) Crude

EU31 Production of graphite 2001 - 05**Exports of graphite**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Austria | 3 631 | 3 384 | 4 574 | 5 094 | 7 082 |
| Belgium-Luxembourg | 4 878 | 5 653 | 9 097 | 581 | 834 |
| Czech Republic | 2 621 | 3 487 | 4 058 | 3 924 | 3 489 |
| France | 178 | ... | 167 | 122 | 225 |
| Germany | 10 334 | 12 103 | 11 746 | 14 783 | 14 241 |
| Italy | 199 | 313 | 222 | 625 | 274 |
| Netherlands | 4 877 | 2 851 | 5 209 | 5 987 | 3 240 |
| Norway | 9 032 | 8 129 | ... | — | — |
| Spain | 14 299 | 8 521 | 9 288 | 27 634 | 11 972 |
| Sweden | 2 164 | 600 | 302 | 260 | 195 |
| United Kingdom | 2 635 | 2 816 | 4 158 | 4 348 | 2 685 |

Note(s):-

(1) This table excludes synthetic graphite

Imports of graphite

tonnes

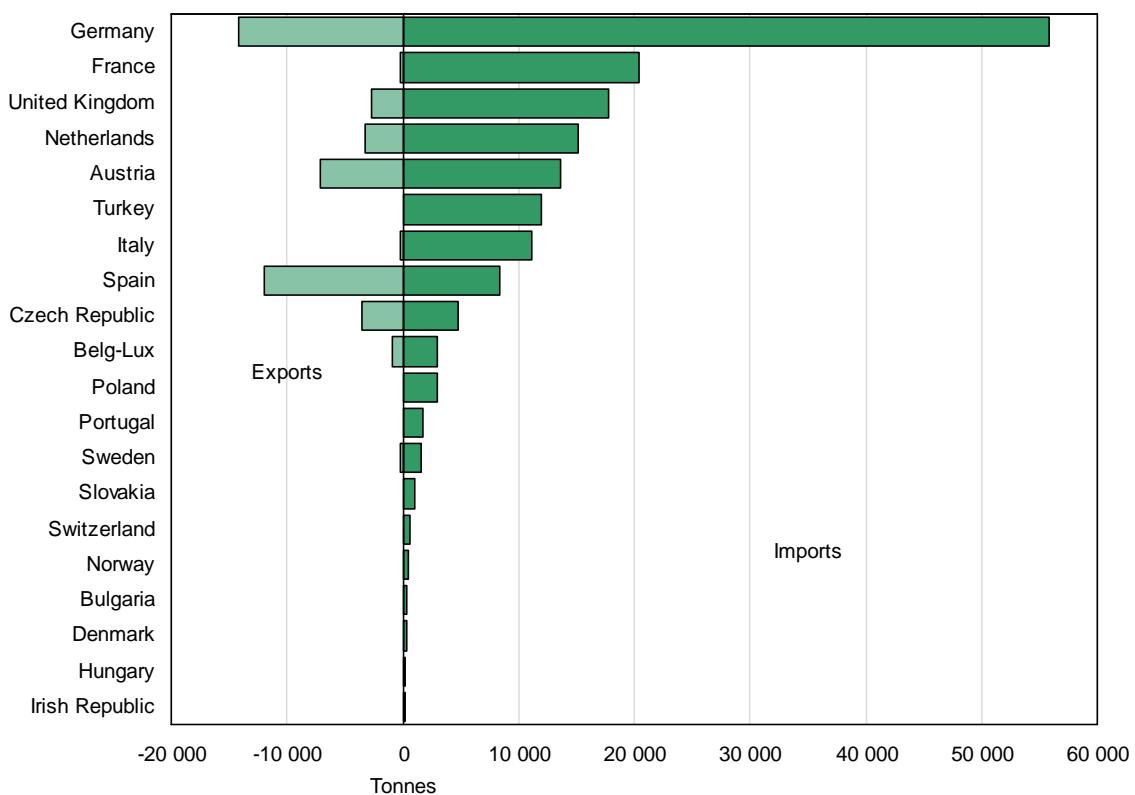
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Austria | 5 521 | 6 004 | 4 971 | 7 229 | 13 655 |
| Belgium-Luxembourg | 9 948 | 10 638 | 12 414 | 3 301 | 3 040 |
| Bulgaria | 223 | 210 | 492 | 420 | 319 |
| Czech Republic | 1 518 | 1 476 | 2 765 | 3 663 | 4 787 |
| Denmark | 707 | 355 | 567 | 478 | 288 |
| Finland | 411 | 281 | 197 | 168 | 84 |
| France | 24 440 | 13 016 | 11 149 | 15 083 | 20 449 |
| Germany | 49 720 | 42 706 | 41 161 | 53 602 | 55 843 |
| Greece | 54 | 75 | 77 | 127 | 91 |
| Hungary | 474 | 528 | 517 | 234 | 191 |
| Irish Republic | 108 | 541 | 248 | 288 | 177 |
| Italy | 11 319 | 11 302 | 10 845 | 10 699 | 11 102 |
| Netherlands | 5 636 | 8 232 | 10 208 | 18 139 | 15 205 |
| Norway | 347 | 615 | 502 | 548 | 423 |
| Poland | 2 856 | 2 700 | 3 150 | 3 089 | 3 028 |
| Portugal | 1 297 | 1 436 | 1 129 | 1 317 | 1 722 |
| Slovakia | 1 992 | 2 633 | 2 209 | 1 667 | 1 031 |
| Spain | 7 675 | 8 119 | 7 363 | 9 402 | 8 334 |
| Sweden | 1 026 | 1 022 | 1 428 | 1 473 | 1 539 |
| Switzerland | 538 | 918 | 863 | 395 | 652 |
| Turkey | 6 431 | 7 010 | 7 429 | 10 212 | 11 956 |
| United Kingdom | 22 435 | 22 435 | 19 270 | 19 075 | 17 766 |

Note(s) :-

(1) This table excludes synthetic graphite

Graphite

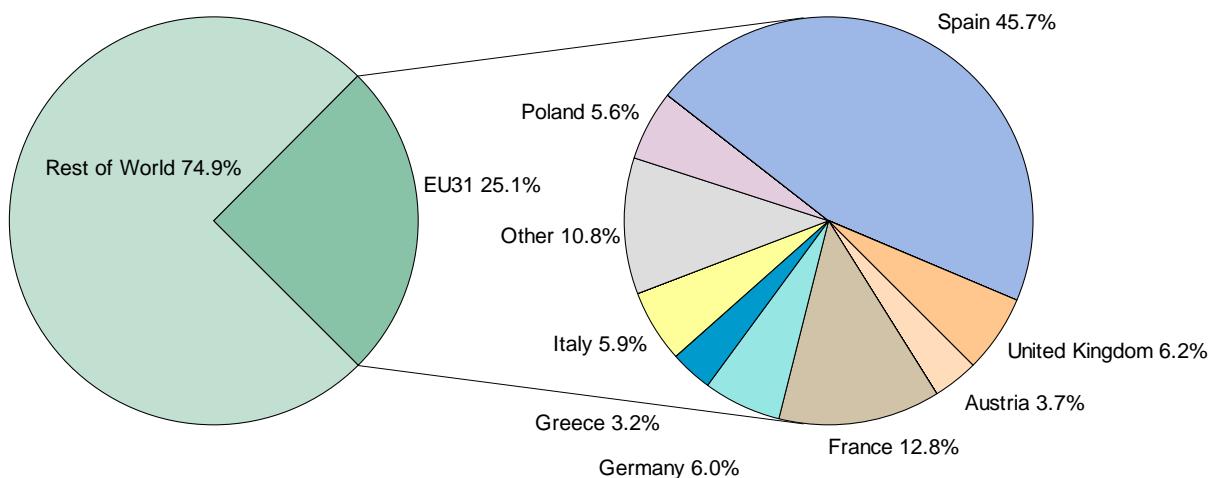
Graphite – EU31 trade in 2005



Gypsum

- Gypsum (calcium sulphate) is a common mineral that chiefly occurs as beds or seams in sedimentary rocks. Anhydrite is a similar mineral without combined water and is considered in the following tables with gypsum. Calcined gypsum is chiefly used (80%) to make building and decorative plaster. It is used as an additive to cement, in farming as a soil conditioner, as filler and in the chemical industry.
- The EU31 produced 25% of world gypsum (non-synthetic) in 2005. The largest EU31 producer is Spain which accounted for 46% of EU31 production. The USA was the largest gypsum producer in the world in 2005 (16%).
- The overall trade situation with gypsum is becoming difficult to follow as large quantities of synthetic gypsum are made during the desulphurisation of coal-fired power station fumes and this competes with natural gypsum production. The price of crude gypsum (ex-mine US) averaged \$7.48/tonne in 2005.

EU31 Production of gypsum 2005



Production of gypsum

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-------------|-------------|-------------|-------------|---------------|
| Austria | | | | | |
| Gypsum | 790 478 | 847 117 | 889 727 | 920 809 | 911 162 |
| Anhydrite | 138 745 | 122 085 | 113 823 | 117 318 | 106 032 |
| Bulgaria | 166 838 | 156 400 | 165 500 | 175 900 | 187 700 |
| Croatia | 130 861 | 145 000 | 166 340 | 193 263 | 196 133 |
| Cyprus | 250 000 | 295 000 | 300 000 | 255 000 | 215 500 |
| Czech Republic | 24 000 | 108 000 | 104 000 | 71 000 | 25 000 |
| France | *4 500 000 | *3 500 000 | *3 500 000 | *3 500 000 | *3 500 000 |
| Germany (a) | 1 966 000 | 1 761 000 | 1 748 000 | 1 579 000 | 1 644 000 |
| Greece | 808 890 | 890 148 | 731 785 | 856 606 | 865 216 |
| Hungary (a) | 231 000 | 108 000 | 62 000 | 55 000 | 19 000 |
| Irish Republic | *500 000 | *500 000 | *600 000 | *650 000 | *700 000 |
| Italy | 1 558 882 | 1 531 477 | 1 783 903 | 1 615 287 | ... |
| Latvia | *100 000 | (a) 220 000 | (a) 160 000 | (a) 230 000 | (a) *230 000 |
| Poland | | | | | |
| Gypsum | 793 684 | 866 674 | 1 030 693 | 970 786 | (a) 1 242 875 |
| Anhydrite | 300 356 | 280 031 | 297 088 | 301 161 | ... |
| Portugal | 787 646 | 579 143 | 419 799 | ... | ... |
| Romania | 282 985 | 421 235 | 409 516 | 490 372 | 532 867 |
| Slovakia (a) | 168 800 | 121 680 | 93 800 | 127 100 | 107 500 |
| Spain | *10 920 000 | 11 218 410 | 11 366 375 | 12 533 972 | 12 500 000 |
| Switzerland | *300 000 | *300 000 | *300 000 | *300 000 | *300 000 |
| Turkey | 328 656 | 264 038 | 196 668 | 250 099 | 24 421 |
| United Kingdom | *1 700 000 | *1 700 000 | *1 700 000 | 1 686 000 | *1 700 000 |
| EU31 Total | 26 700 000 | 25 900 000 | 26 100 000 | 27 300 000 | 27 300 000 |

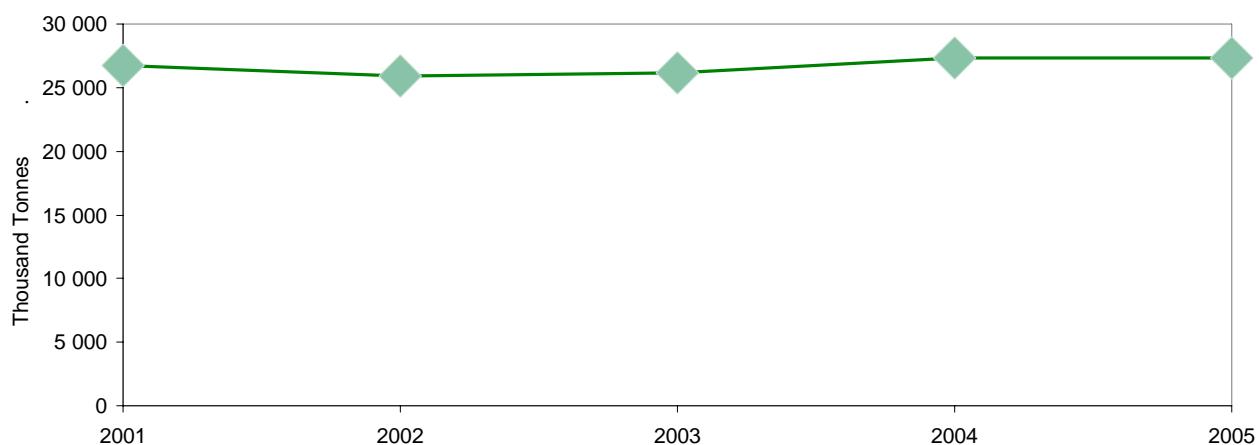
Note(s):-

(1) Some countries produce large quantities of synthetic gypsum. Where possible, this output is excluded from the table

(a) Including anhydrite

Gypsum

EU31 Production of gypsum 2001 - 05



Exports of gypsum

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|-----------|-----------|---------|
| Austria | | | | | |
| Crude | 54 034 | 46 524 | 21 562 | 22 732 | 21 433 |
| Calcined | 72 827 | 82 493 | 97 840 | 100 444 | 94 207 |
| Belgium-Luxembourg | | | | | |
| Crude | 104 842 | 59 688 | 64 538 | 91 110 | 46 691 |
| Calcined | 3 998 | 3 628 | 2 556 | 175 496 | 2 709 |
| Bulgaria | | | | | |
| Crude & calcined | 2 841 | 2 406 | 1 868 | 2 231 | 2 347 |
| Croatia | | | | | |
| Crude & calcined | 20 032 | 28 318 | ... | ... | ... |
| Cyprus | | | | | |
| Crude & calcined | 209 179 | 169 213 | 184 389 | 215 297 | 73 741 |
| Czech Republic | | | | | |
| Crude | 39 414 | 87 247 | 92 133 | 90 750 | 33 307 |
| Calcined | 6 674 | 3 967 | 4 718 | 5 563 | 4 272 |
| Denmark | | | | | |
| Crude | 86 764 | 110 317 | 83 754 | 81 318 | 111 720 |
| Calcined | 141 866 | 155 843 | 65 842 | 13 837 | 25 474 |
| Finland | | | | | |
| Crude & calcined | 4 710 | 5 026 | 981 | 440 | 451 |
| France | | | | | |
| Crude | 478 877 | 427 138 | 335 780 | 324 894 | 250 845 |
| Calcined | 282 629 | 286 568 | 297 326 | 311 437 | 350 955 |
| Germany | | | | | |
| Crude | 123 299 | 176 734 | 142 263 | 197 613 | 259 631 |
| Calcined | 705 776 | 695 565 | 1 070 873 | 1 033 057 | 991 946 |
| Greece | | | | | |
| Crude | 56 967 | 44 953 | 112 510 | 106 082 | 88 187 |
| Irish Republic | | | | | |
| Crude | 820 | 817 | 873 | 919 | 1 022 |
| Calcined | 37 919 | 22 181 | 33 382 | 40 636 | 42 212 |
| Italy | | | | | |
| Crude | 47 185 | 24 560 | 1 032 | 8 040 | 12 641 |
| Calcined | 74 209 | 54 393 | 38 778 | 42 223 | 41 404 |
| Latvia | | | | | |
| Crude | 35 302 | 55 225 | 58 186 | 24 782 | 48 896 |
| Netherlands | | | | | |
| Crude | 22 169 | 24 263 | 32 752 | 37 920 | 53 351 |
| Calcined | 2 350 | 26 463 | 7 905 | 11 088 | 61 508 |
| Norway | | | | | |
| Crude | 19 336 | 19 241 | 27 287 | 30 825 | 49 443 |
| Poland | | | | | |
| Crude & calcined | 21 449 | 21 259 | 24 706 | 29 467 | 33 277 |
| Romania | | | | | |
| Crude | 6 115 | 6 473 | 10 539 | 14 277 | 15 089 |
| Slovakia | | | | | |
| Crude & calcined | 69 | 154 | 184 | 679 | 246 |

Gypsum

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|-----------|-----------|-----------|-----------|-----------|
| Spain | | | | | |
| Crude | 2 590 879 | 2 818 090 | 2 732 211 | 2 820 367 | 3 228 806 |
| Calcined | 460 778 | 517 466 | 473 180 | 470 437 | 391 274 |
| Sweden | | | | | |
| Crude & calcined | 5 692 | 6 350 | 5 993 | 7 343 | 7 832 |
| Switzerland | | | | | |
| Crude | 25 122 | 1 709 | 44 | 158 | 7 |
| Calcined | 1 738 | 1 667 | 1 680 | 1 002 | 1 088 |
| Turkey | | | | | |
| Crude | 9 073 | 320 | 1 282 | 7 859 | 4 346 |
| Calcined | 151 055 | 210 898 | 308 189 | 434 910 | 477 710 |
| United Kingdom | | | | | |
| Crude | 3 049 | 14 460 | 2 601 | 3 903 | 2 299 |
| Calcined | 29 474 | 44 827 | 39 515 | 49 945 | 54 356 |

Note(s):-

(1) In this table the term 'crude' may include some anhydrite

Imports of gypsum

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Crude | 16 701 | 17 429 | 23 705 | 16 985 | 15 280 |
| Calcined | 41 988 | 48 808 | 59 897 | 70 261 | 66 118 |
| Belgium-Luxembourg | | | | | |
| Crude | 701 760 | 719 403 | 524 938 | 713 502 | 768 702 |
| Calcined | 329 502 | 322 930 | 290 348 | 366 504 | 460 067 |
| Bulgaria | | | | | |
| Crude | 33 737 | 47 984 | 38 119 | 49 426 | 18 684 |
| Calcined | 9 692 | 17 476 | 22 615 | 35 558 | 49 163 |
| Croatia | | | | | |
| Crude | 25 633 | 28 326 | 35 732 | 14 974 | 41 665 |
| Calcined | 20 046 | 29 147 | 33 419 | 37 499 | 33 316 |
| Czech Republic | | | | | |
| Crude | 9 523 | 14 790 | 20 266 | 29 328 | 19 253 |
| Calcined | 23 410 | 23 899 | 32 810 | 43 894 | 37 637 |
| Denmark | | | | | |
| Crude | 256 834 | 223 666 | 282 006 | 283 604 | 317 736 |
| Calcined | 8 952 | 34 509 | 36 882 | 38 650 | 45 691 |
| Estonia | | | | | |
| Crude & calcined | 13 236 | 20 355 | 23 314 | 80 834 | 20 957 |
| Finland | | | | | |
| Crude | 292 833 | 286 347 | 231 517 | 278 645 | 341 680 |
| Calcined | 7 725 | 7 682 | 7 066 | 7 010 | 7 517 |
| France | | | | | |
| Crude | 205 820 | 168 598 | 266 857 | 311 411 | 361 820 |
| Calcined | 44 697 | 48 920 | 45 214 | 85 845 | 60 358 |
| Germany | | | | | |
| Crude | 225 631 | 186 338 | 100 269 | 102 596 | 66 590 |
| Calcined | 34 767 | 59 707 | 91 143 | 116 628 | 73 647 |
| Greece | | | | | |
| Crude | 504 | 350 | 362 | 826 | 801 |
| Calcined | 26 386 | 1 501 | 1 361 | 13 614 | 5 270 |
| Hungary | | | | | |
| Crude & calcined | 48 842 | 53 147 | 59 741 | 64 726 | 60 336 |
| Irish Republic | | | | | |
| Crude | 8 615 | 10 931 | 373 | 536 | 1 056 |
| Calcined | 444 | 914 | 2 228 | 6 015 | 20 024 |
| Italy | | | | | |
| Crude | 2 479 | 2 391 | 1 947 | 5 024 | 6 134 |
| Calcined | 23 487 | 22 706 | 17 681 | 22 515 | 22 076 |
| Latvia | | | | | |
| Crude & calcined | 3 459 | 3 138 | 3 232 | 2 931 | 3 563 |

Gypsum

Imports continued

tonnes

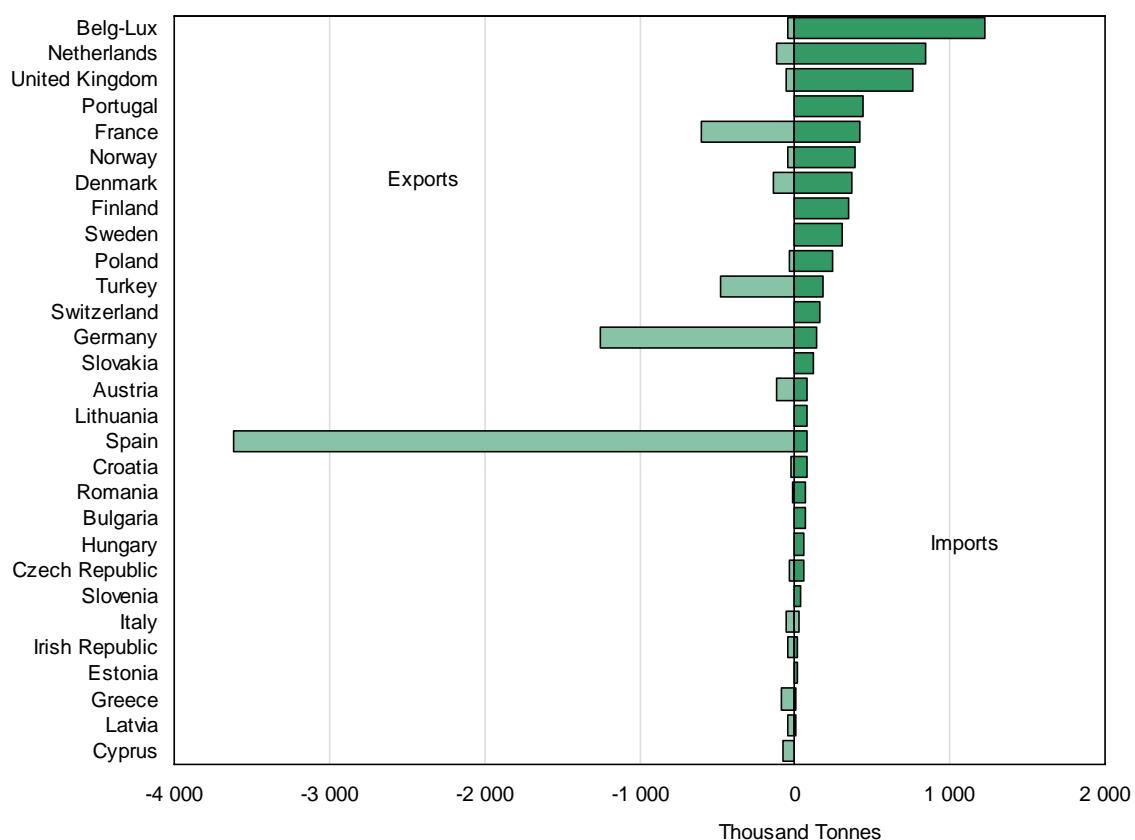
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|---------|-------------|-------------|-------------|-------------|
| Lithuania | | | | | |
| Crude | 22 275 | 36 355 | 1 495 | 39 653 | 58 859 |
| Calcined | 16 723 | 11 630 | 45 996 | 16 245 | 20 990 |
| Netherlands | | | | | |
| Crude | 222 337 | 208 013 | 132 882 | 176 349 | 155 519 |
| Calcined | 274 769 | 381 920 | 387 829 | 492 478 | 686 085 |
| Norway | | | | | |
| Crude | 36 175 | 59 945 | 49 398 | 109 069 | 119 962 |
| Calcined | 308 328 | 315 517 | 295 160 | 259 001 | 274 006 |
| Poland | | | | | |
| Crude | 22 813 | 46 123 | 101 589 | 163 227 | 150 622 |
| Calcined | 125 354 | 124 727 | 123 919 | 100 886 | 91 356 |
| Portugal | | | | | |
| Crude | 40 509 | 33 696 | 60 120 | 82 603 | 79 370 |
| Calcined | 374 719 | 371 705 | 338 228 | 340 665 | 361 284 |
| Romania | | | | | |
| Crude & calcined | 109 719 | 102 708 | 48 336 | 37 805 | 69 027 |
| Slovakia | | | | | |
| Crude & calcined | 40 702 | 125 948 | 121 461 | 110 803 | 116 252 |
| Slovenia | | | | | |
| Crude | 70 509 | 74 660 | 59 685 | 46 703 | 36 817 |
| Spain | | | | | |
| Crude | 47 567 | 51 797 | 65 152 | 43 004 | 47 585 |
| Calcined | 8 143 | 38 659 | 142 719 | 14 462 | 32 078 |
| Sweden | | | | | |
| Crude | 177 264 | 211 432 | 269 711 | 269 060 | 206 972 |
| Calcined | 87 144 | 82 831 | 103 481 | 160 784 | 97 746 |
| Switzerland | | | | | |
| Crude | 65 203 | 64 517 | 50 760 | 64 677 | 76 460 |
| Calcined | 66 156 | 72 876 | 75 394 | 81 971 | 88 511 |
| Turkey | | | | | |
| Crude | 66 472 | 90 335 | 160 214 | 170 958 | 183 553 |
| United Kingdom | | | | | |
| Crude | 755 112 | (a) 646 889 | (a) 903 068 | (a) 227 068 | (a) 761 117 |
| Calcined | 31 481 | ... | ... | ... | ... |

Note(s) :-

(1) In this table the term 'crude' may include some anhydrite

(a) Including calcined

Gypsum – EU31 trade in 2005



Iodine

Iodine

- Iodine is a bluish-black lustrous, solid, non-metal with antiseptic and other medicinal properties, used in sanitation, animal feed and pharmaceutical products. It is also a catalyst.
- World production is dominated by Chile (62%). The EU31 are entirely import dependent for iodine.
- Crude iodine crystals (50 kg drums, 99.5% min) traded in the range of \$22–25/kg during 2005.

Exports of iodine

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Belgium-Luxembourg | 1 908 400 | 2 351 000 | 4 904 400 | 3 646 100 | 3 460 200 |
| Czech Republic | ... | 267 | 330 | 537 | 1 000 |
| France | 74 900 | 107 000 | 30 900 | 30 500 | 40 900 |
| Germany | 570 400 | 2 637 000 | 583 100 | 640 400 | 465 800 |
| Irish Republic | 2 500 | 2 000 | 9 600 | — | 1 462 |
| Italy | 2 892 | 3 000 | 2 065 | 3 080 | 14 499 |
| Lithuania | 13 000 | 1 832 | 827 | 7 502 | 33 |
| Netherlands | ... | 147 664 | 527 769 | 58 633 | 59 228 |
| Norway | 64 | 3 000 | 1 509 | — | — |
| Spain | 300 485 | 115 000 | 27 811 | 31 156 | 21 089 |
| Sweden | 1 000 | 2 000 | 4 000 | — | 4 000 |
| Turkey | 2 307 | 2 570 | 209 | 117 | 1 250 |
| United Kingdom | 507 363 | 207 341 | 169 145 | 107 007 | 197 086 |

Imports of iodine

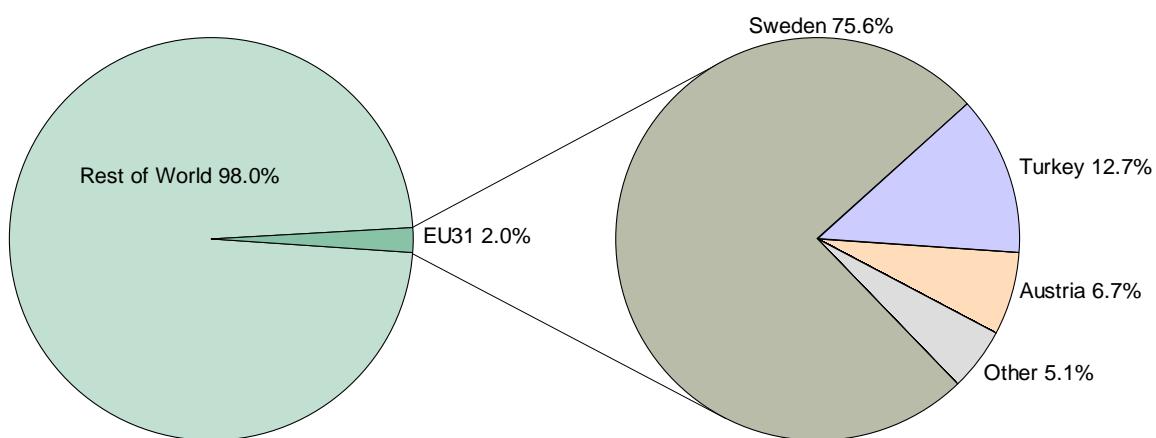
kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 101 600 | 81 000 | 85 500 | 124 100 | 92 700 |
| Belgium-Luxembourg | 2 006 900 | 2 357 000 | 4 817 700 | 3 419 800 | 3 332 800 |
| Bulgaria | 5 319 | 4 636 | 11 250 | 6 755 | 5 080 |
| Cyprus | 17 000 | 29 894 | 8 685 | 226 | 67 |
| Czech Republic | 24 000 | 18 819 | 29 637 | 31 428 | 28 400 |
| Denmark | 24 614 | 19 000 | 21 037 | 9 080 | 13 249 |
| Finland | 4 491 | 9 000 | 4 879 | 27 020 | 6 209 |
| France | 1 469 800 | 1 553 000 | 1 563 800 | 1 317 700 | 1 685 200 |
| Germany | 1 752 800 | 1 208 000 | 1 318 400 | 1 422 800 | 1 302 300 |
| Greece | 1 766 | 1 000 | 2 593 | 1 673 | 2 247 |
| Irish Republic | 44 664 | 5 000 | 8 712 | 18 215 | 11 921 |
| Italy | 1 049 291 | 1 218 000 | 1 167 573 | 1 127 906 | 854 831 |
| Lithuania | 7 000 | 1 376 | 1 050 | 1 796 | 6 929 |
| Netherlands | 2 156 800 | 1 269 000 | 632 000 | 357 225 | 21 015 |
| Norway | 118 903 | 684 000 | 1 105 811 | 1 294 934 | 1 748 110 |
| Poland | 20 000 | 13 312 | 23 875 | 18 687 | 10 200 |
| Portugal | 76 686 | 25 000 | 28 807 | 14 717 | 12 000 |
| Slovenia | 2 200 | 150 | 180 | 172 | 387 |
| Spain | 1 247 590 | 796 000 | 784 718 | 710 814 | 781 787 |
| Sweden | 1 000 | 5 000 | 5 000 | 1 000 | 2 000 |
| Switzerland | 28 203 | 14 000 | 27 226 | 7 428 | 7 949 |
| Turkey | 39 422 | 30 450 | 15 405 | 31 736 | 18 547 |
| United Kingdom | 1 015 061 | 744 234 | 825 813 | 802 782 | 1 092 633 |

Iron ore

- There are two main commercial ores of iron— magnetite and haematite (both iron oxides). Iron is also recovered from pyrites (FeS_2). Iron ore is mined, processed and smelted chiefly to produce steel in integrated steel plants. Pig iron, for use as iron, is a minor part of production.
- The largest world producer was China (27%). World exports were dominated by Brazil and Australia. EU31 iron ore production was only 2% of the world total in 2005. Sweden is the largest EU31 producer (76%); Sweden and Norway are the only net exporters.
- Iron ore demand closely follows demand for steel which remained very strong during 2005 mainly driven by rapid growth in China. Iron ore prices increased by more than 70% in 2005 (following a 19% increase in 2004) largely resulting from imbalances in supply and demand. International iron ore prices are generally determined through annual negotiations between producers and consumers. Itabira material traded at US\$0.55/dry metric tonne unit and US\$0.56/dry metric tonne unit for Carajás ore. Australian iron ore (Mt Newman high grade fines) was priced at US\$0.62/dry metric tonne unit.

EU31 Production of iron ore 2005



Production of iron ore

tonnes

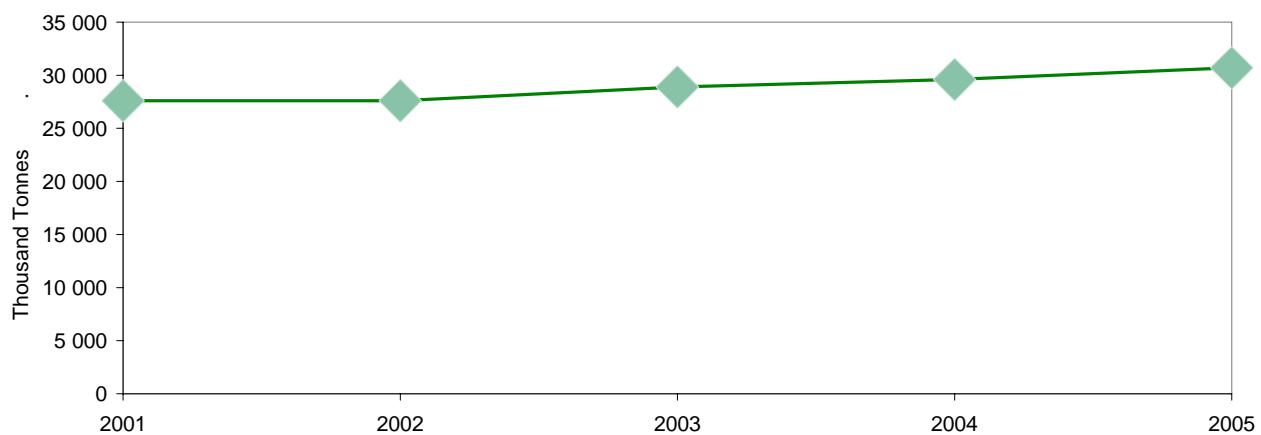
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------|------------|------------|------------|------------|------------|
| Austria (c) | 1 843 275 | 1 941 759 | 2 124 787 | 1 889 419 | 2 047 950 |
| Bulgaria | 324 800 | 373 000 | 466 100 | 82 700 | — |
| France | 36 587 | 21 367 | — | — | — |
| Germany (a) (b) | 407 002 | 419 371 | 429 170 | 412 238 | 362 106 |
| Norway | 395 000 | 490 000 | 410 000 | 586 100 | 713 000 |
| Romania | 221 000 | 248 000 | 244 000 | 231 417 | 220 788 |
| Slovakia | 435 492 | 326 300 | 287 000 | 305 072 | 258 500 |
| Spain | 55 058 | 24 489 | 571 | 10 879 | — |
| Sweden | 19 486 000 | 20 281 000 | 21 498 000 | 22 272 000 | 23 255 000 |
| Turkey | 4 434 621 | 3 432 775 | 3 429 070 | 3 856 536 | 3 889 934 |
| United Kingdom | 510 | 464 | *500 | *500 | *500 |
| EU31 Total | 27 639 000 | 27 559 000 | 28 889 000 | 29 647 000 | 30 748 000 |

Note(s):-

- (a) Including manganeseiferous iron ore
- (b) Used as aggregate in the construction industry
- (c) Including micaceous iron oxide

Iron Ore

EU31 Production of iron ore 2001 - 05



Exports of iron ore

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Belgium-Luxembourg | 43 578 | 70 035 | 43 752 | 23 450 | 81 560 |
| France | 38 116 | 16 649 | 43 473 | 38 413 | 106 849 |
| Germany | | | | | |
| Iron ore | 16 280 | 15 521 | 9 376 | 8 756 | 7 023 |
| Burnt pyrites | 6 112 | 6 907 | 6 491 | 3 241 | 7 257 |
| Italy | | | | | |
| Burnt pyrites | 57 643 | 46 294 | 30 848 | 11 086 | 9 410 |
| Netherlands | 29 724 | 42 244 | 20 881 | 1 384 740 | 1 977 963 |
| Norway | | | | | |
| Iron ore | 33 727 | 620 478 | 530 851 | 648 583 | 721 975 |
| Burnt pyrites | 46 323 | 62 214 | 62 315 | 117 389 | 14 730 |
| Slovakia | 112 227 | 127 174 | 76 957 | 135 398 | 8 581 |
| Spain | | | | | |
| Burnt pyrites | 168 181 | 189 404 | 105 203 | 171 292 | 230 985 |
| Sweden | 13 619 293 | 14 233 450 | 15 559 741 | 17 336 835 | 17 597 351 |

Imports of iron ore

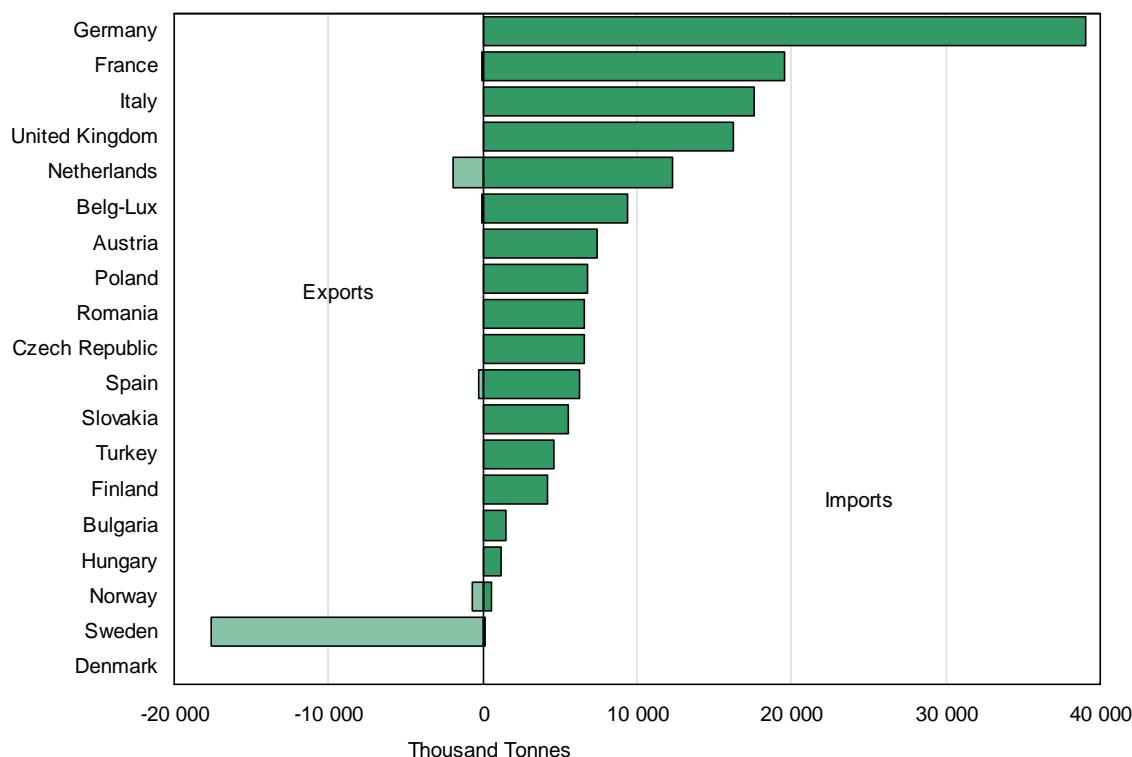
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|------------|------------|------------|------------|------------|
| Austria | ... | ... | 5 691 360 | 5 783 359 | 7 423 015 |
| Belgium-Luxembourg | 11 223 322 | 12 204 732 | 11 577 845 | 10 655 707 | 9 384 885 |
| Bulgaria | | | | | |
| Iron ore | 1 359 466 | 1 302 809 | 1 850 563 | 1 570 605 | 1 050 925 |
| Burnt pyrites | 2 666 | 1 307 | 128 640 | 357 898 | 437 710 |
| Czech Republic | 6 891 369 | 6 811 707 | 8 221 566 | 7 636 968 | 6 576 885 |
| Denmark | | | | | |
| Burnt pyrites | 47 038 | 60 659 | 52 806 | 81 071 | 85 975 |
| Finland | | | | | |
| Iron ore | 3 916 207 | 3 791 710 | 4 212 158 | 3 921 507 | 4 215 633 |
| Burnt pyrites | 56 | 13 132 | 26 163 | 63 | — |
| France | | | | | |
| Iron ore | 16 707 431 | 19 069 088 | 18 890 174 | 20 777 700 | 19 506 894 |
| Burnt pyrites | 24 758 | 0 | 3 348 | 65 | 160 |
| Germany | | | | | |
| Iron ore | 40 094 653 | 44 297 518 | 33 876 167 | 43 317 039 | 39 061 160 |
| Burnt pyrites | 55 380 | 44 838 | 56 249 | 37 194 | 20 496 |
| Greece | | | | | |
| Burnt pyrites | 125 242 | 58 666 | 132 | 4 601 | 180 |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|------------|------------|------------|------------|------------|
| Hungary | 1 702 510 | 1 718 394 | 1 864 033 | 1 063 931 | 1 210 543 |
| Italy | | | | | |
| Iron ore | 10 263 020 | 9 283 941 | 8 842 872 | 10 578 006 | 11 244 293 |
| Burnt pyrites | 55 502 623 | 5 614 311 | 6 445 903 | 6 136 765 | 6 307 527 |
| Netherlands | | | | | |
| Iron ore | 6 310 886 | 7 369 802 | 8 740 391 | 12 622 628 | 12 285 177 |
| Burnt pyrites | 106 277 | 23 596 | 22 545 | 26 717 | — |
| Norway | 224 442 | 206 650 | 178 025 | 495 047 | 526 713 |
| Poland | | | | | |
| Iron ore | 6 378 630 | 5 674 667 | 6 817 467 | 8 627 650 | 5 785 200 |
| Burnt pyrites | 1 322 662 | 1 273 170 | 1 764 657 | 2 303 655 | 1 003 456 |
| Portugal | 141 064 | 829 | 421 | 448 | 118 |
| Romania | 3 874 940 | 6 198 085 | 6 977 977 | 6 609 026 | 6 601 393 |
| Slovakia | 3 269 165 | 4 990 546 | 5 704 522 | 2 745 925 | 5 510 508 |
| Spain | 6 641 053 | 6 158 325 | 5 765 648 | 6 118 975 | 6 248 366 |
| Sweden | | | | | |
| Iron ore | 108 597 | 115 528 | 110 920 | 102 101 | 100 072 |
| Burnt pyrites | 15 763 | 41 970 | 29 658 | 36 351 | 6 095 |
| Switzerland | | | | | |
| Burnt pyrites | 15 897 | 12 239 | 9 157 | 4 283 | 6 293 |
| Turkey | | | | | |
| Iron ore | 1 726 891 | 2 879 135 | 2 144 607 | 2 070 545 | 2 095 737 |
| Burnt pyrites | 893 595 | 2 499 655 | 3 048 337 | 2 503 319 | 2 525 709 |
| United Kingdom | | | | | |
| Iron ore | 15 351 877 | 13 316 026 | 16 121 350 | 15 298 713 | 16 204 615 |
| Burnt pyrites | 17 130 | ... | 19 230 | 2 436 | 1 911 |

Iron ore – EU31 trade in 2005

Production of pig iron

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Austria | 4 392 878 | 4 607 000 | 4 676 742 | 4 846 740 | 5 400 000 |
| Belgium | 7 732 111 | 7 988 396 | 7 812 593 | 8 224 000 | 7 254 000 |
| Bulgaria | 1 211 000 | 1 072 000 | 1 386 000 | 1 200 000 | 1 200 000 |
| Czech Republic | 4 670 700 | 4 839 880 | 5 207 000 | 5 385 000 | 4 627 000 |
| Finland | 2 851 821 | 2 828 275 | 3 092 051 | 3 036 566 | 3 056 165 |
| France | 11 884 224 | 13 093 042 | 12 615 893 | 13 087 705 | 12 595 584 |
| Germany | 29 394 000 | 29 967 000 | 30 071 000 | 30 628 000 | 29 300 000 |
| Hungary | 1 225 714 | 1 334 000 | 1 332 000 | 1 350 000 | 1 329 000 |
| Italy | 10 581 000 | 9 746 000 | 10 123 000 | 10 566 000 | 11 392 000 |
| Netherlands | 5 305 000 | 5 367 000 | 5 846 000 | 6 011 000 | 6 000 000 |
| Norway | 70 000 | 108 000 | *110 000 | *100 000 | *100 000 |
| Poland | 5 440 047 | 5 296 410 | 5 585 094 | 6 292 341 | 4 458 161 |
| Portugal | 82 000 | — | — | — | — |
| Romania | 3 242 994 | 3 979 346 | 4 101 409 | 4 243 956 | 4 097 921 |
| Slovakia | 3 254 600 | 3 533 150 | 3 892 000 | 3 765 000 | 3 681 000 |
| Spain | 4 094 000 | 3 973 000 | 3 645 000 | 4 036 000 | 4 200 000 |
| Sweden | 3 725 000 | 3 815 000 | 3 819 000 | 3 992 000 | 3 800 000 |
| Switzerland | *80 000 | *80 000 | *80 000 | *80 000 | *80 000 |
| Turkey | 5 289 000 | 5 003 000 | 5 693 764 | 5 835 889 | 6 371 084 |
| United Kingdom | 9 870 400 | 8 560 600 | 10 277 800 | 10 179 600 | 10 200 000 |
| EU31 Total | 114 400 000 | 115 190 000 | 119 370 000 | 122 860 000 | 119 140 000 |

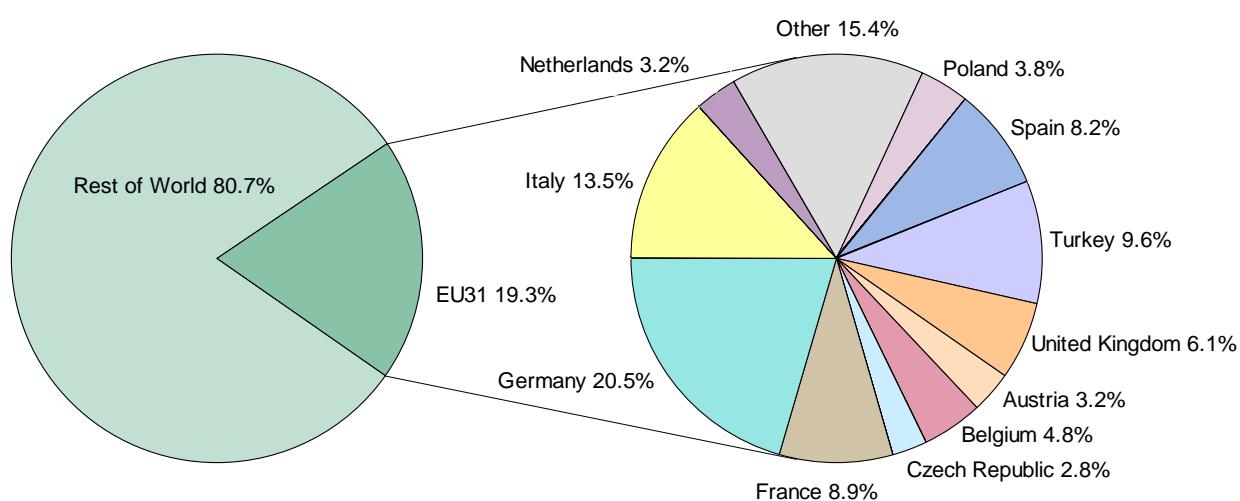
Note(s):-

(1) The data in this table include sponge iron and direct reduced iron (DRI), where these have been separately identified

Crude steel

- Crude steel is the end result of smelting iron ore. It is produced in a wide variety of forms including slabs, coils, bars, rods and plates — depending on customer requirements. Steel is a ubiquitous product and has a multitude of applications. Alloying with other metals changes the fundamental properties of crude steel to meet specialised requirements. Recycled, or secondary, steel is a significant part of EU31 and world total steel production.
- The majority of industrialised countries in the world produce steel. In 2005 the largest producer was China (31%). In the EU31 the largest producer was Germany, which produced 21% of EU31 steel output.
- World steel prices declined in 2005, hot-rolled coil (world export prices, fob) starting the year around US\$600/tonne, began to decline in April, reaching a low in mid 2005 of US\$400/tonne.

EU31 Production of crude steel 2005



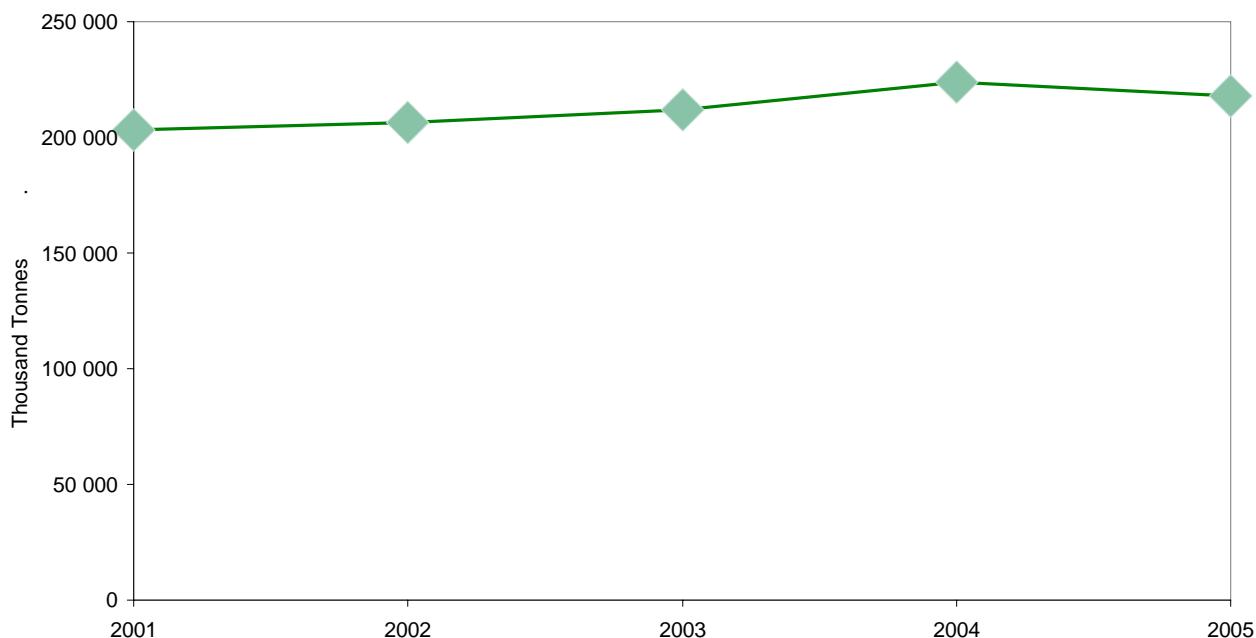
Production of crude steel

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Austria | 5 870 000 | 6 189 000 | 6 261 000 | 6 530 000 | 7 031 000 |
| Belgium | 10 741 493 | 11 322 008 | 11 114 775 | 11 697 000 | 10 422 000 |
| Bulgaria | 1 972 000 | 1 860 000 | 1 950 000 | 2 106 000 | 1 940 000 |
| Croatia | 57 993 | 33 851 | 43 380 | 85 947 | 73 640 |
| Czech Republic | 6 315 900 | 6 511 970 | 6 783 000 | 7 033 000 | 6 189 000 |
| Denmark | 746 000 | 392 000 | — | — | — |
| Finland | 3 938 122 | 4 002 914 | 4 766 203 | 4 832 427 | 4 738 446 |
| France | 19 190 552 | 20 258 473 | 19 757 864 | 20 770 252 | 19 480 777 |
| Germany | 44 803 000 | 45 015 000 | 44 809 000 | 46 377 000 | 44 524 000 |
| Greece | 1 281 000 | 1 835 000 | 1 701 000 | 1 967 000 | 2 266 000 |
| Hungary | 2 064 507 | 2 138 146 | 2 044 526 | 1 944 017 | 2 004 250 |
| Irish Republic | 150 000 | — | — | — | — |
| Italy | 26 544 000 | 26 302 000 | 27 058 000 | 28 477 000 | 29 319 000 |
| Latvia | 515 000 | 507 000 | 546 000 | 550 000 | 550 000 |
| Luxembourg | 2 724 679 | 2 736 000 | 2 675 000 | 2 684 000 | 2 194 000 |
| Netherlands | 5 902 000 | 6 117 000 | 6 561 000 | 6 848 000 | 6 919 000 |
| Norway | 635 000 | 698 000 | 703 000 | 725 000 | 705 000 |
| Poland | 8 809 211 | 8 367 434 | 9 107 384 | 10 578 482 | 8 335 898 |
| Portugal | 727 000 | 894 000 | 1 000 000 | 1 400 000 | 1 400 000 |
| Romania | 4 935 623 | 5 490 434 | 5 692 496 | 6 076 600 | 5 631 566 |
| Slovakia | 3 988 600 | 4 275 470 | 4 588 000 | 4 454 000 | 4 485 000 |
| Slovenia | 462 000 | 481 000 | 541 000 | 566 000 | 583 000 |
| Spain | 16 504 000 | 16 408 000 | 16 407 000 | 17 700 000 | 17 826 000 |
| Sweden | 5 518 100 | 5 753 300 | 5 707 300 | 5 978 100 | 5 725 700 |
| Switzerland | *1 000 000 | *1 000 000 | *1 000 000 | *1 000 000 | 1 160 000 |
| Turkey | 14 382 257 | 16 045 522 | 17 644 020 | 19 868 118 | 20 961 240 |
| United Kingdom | 13 542 700 | 11 667 100 | 13 268 000 | 13 765 700 | 13 226 000 |
| EU31 Total | 203 321 000 | 206 301 000 | 211 729 000 | 224 014 000 | 217 691 000 |

Note(s):-

- (1) Unless otherwise indicated, these figures include production from scrap
(2) Small amounts of steel are believed to be produced in Estonia and Lithuania

EU31 Production of crude steel 2001 - 05

Ferro-alloys

- Ferro-alloys are alloys with iron of a number of metals used exclusively as additives to steel with the object of modifying its properties. Silicon metal is normally included with ferro-alloys as it is used for the same purpose.
- Ferro-alloy production is usually undertaken close to the mine site or at distant locations where cheap energy supplies are available.
- China is the largest producer but South Africa is the largest exporter – predominantly of ferro-chrome. In the EU31, Norway is the largest producer and exporter, based on imported metal ores and indigenous resources of silica.

Production of ferro-alloys

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------------------|----------|----------|----------|----------|----------|
| Austria | | | | | |
| Ferro-molybdenum | 4 900 | 4 930 | 4 400 | 4 700 | 5 000 |
| Ferro-nickel | 2 600 | 2 150 | 2 000 | 1 900 | 2 500 |
| Ferro-vanadium | 5 800 | 5 500 | 5 300 | 5 800 | 6 250 |
| Belgium | | | | | |
| Ferro-vanadium | 926 | 1 492 | ... | ... | ... |
| Bulgaria | | | | | |
| Ferro-silicon | *8 000 | *8 000 | *8 000 | *8 000 | *8 000 |
| Croatia | | | | | |
| Ferro-chrome | 361 | — | — | — | — |
| Czech Republic | | | | | |
| Ferro-vanadium | *2 500 | *3 000 | *3 000 | *3 500 | *3 500 |
| Finland | | | | | |
| Ferro-chrome | 236 000 | 248 000 | 250 000 | 264 492 | 234 881 |
| France | | | | | |
| Ferro-manganese & spiegeleisen | 414 200 | 416 569 | *300 000 | *106 000 | ... |
| Ferro-silico-manganese | 65 248 | 66 215 | *107 000 | *64 000 | ... |
| Ferro-silicon | *100 000 | *100 000 | *100 000 | *100 000 | *100 000 |
| Silicon metal | 89 896 | 84 768 | *85 000 | *85 000 | *85 000 |
| Germany | | | | | |
| Ferro-chrome | 19 308 | 20 018 | 18 318 | 24 857 | 22 672 |
| Other ferro-alloys | *30 000 | *30 000 | *30 000 | *30 000 | *30 000 |
| Silicon metal | 27 739 | 25 257 | 27 870 | 28 773 | 29 349 |
| Greece | | | | | |
| Ferro-nickel | 88 755 | 96 000 | 90 000 | 91 000 | 96 000 |
| Italy | | | | | |
| Ferro-manganese | *40 000 | *40 000 | *40 000 | *40 000 | *40 000 |
| Ferro-silico-manganese | *100 000 | *100 000 | *100 000 | *100 000 | *100 000 |
| Norway | | | | | |
| Ferro-chrome | 82 600 | 61 100 | — | — | — |
| Ferro-manganese | 111 823 | 126 960 | *130 000 | *130 000 | *130 000 |
| Ferro-silico-manganese | 277 938 | 252 723 | *250 000 | *260 000 | *290 000 |
| Ferro-silicon | 427 590 | 359 944 | ... | 389 599 | ... |
| Other ferro-alloys | 47 600 | 48 500 | *50 000 | *60 000 | *60 000 |
| Silicon metal | 134 958 | 152 981 | ... | 193 566 | 178 572 |
| Poland | | | | | |
| Ferro-chrome | — | 106 | 188 | — | — |
| Ferro-manganese | 497 | 602 | 979 | 46 898 | 7 782 |
| Ferro-silico-manganese | 20 007 | 7 338 | *7 000 | — | 10 242 |
| Ferro-silicon | 48 608 | 41 759 | 92 687 | 83 552 | 65 118 |
| Other ferro-alloys | 4 039 | 4 200 | — | 1 419 | 3 663 |
| Romania | | | | | |
| Ferro-manganese | 384 | — | — | 191 | 18 625 |
| Ferro-silico-manganese | 71 921 | 84 720 | 141 899 | 194 754 | 100 957 |
| Ferro-silicon | 5 823 | — | — | — | — |
| Slovakia | | | | | |
| Ferro-chrome | 5 968 | 5 695 | 1 924 | 1 784 | 867 |
| Ferro-silico-manganese | 46 288 | 62 084 | 52 733 | 64 862 | 47 843 |
| Ferro-silicon | 55 577 | 35 920 | 41 539 | 34 684 | 16 512 |
| Other ferro-alloys | 46 357 | 24 657 | 44 589 | 68 096 | 48 161 |
| Slovenia | | | | | |
| Ferro-silicon | *9 000 | *9 000 | *12 000 | *18 000 | *11 000 |

Production continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------|---------|---------|----------|----------|----------|
| Spain | | | | | |
| Ferro-manganese | 24 804 | 33 218 | *35 000 | *35 000 | *35 000 |
| Ferro-silico-manganese | 102 110 | 103 494 | *100 000 | *100 000 | *100 000 |
| Ferro-silicon | 53 427 | 56 994 | *60 000 | *60 000 | *60 000 |
| Silicon metal | 29 114 | 26 071 | *25 000 | *25 000 | *25 000 |
| Sweden | | | | | |
| Ferro-chrome | 107 036 | 118 800 | 106 100 | 127 300 | 127 500 |
| Ferro-silicon | 21 197 | 21 500 | 17 100 | 18 500 | 9 800 |
| Turkey | | | | | |
| Ferro-chrome | 50 735 | 11 200 | 35 393 | 28 701 | 26 043 |
| Ferro-silico-chrome | 5 895 | 7 245 | 6 805 | 5 526 | — |

Exports of iron, steel and ferro-alloys

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Ferro-alloys | 6 154 | 16 390 | 17 202 | 5 999 | 9 476 |
| Silicon metal | 140 | 470 | 751 | 598 | 628 |
| Ingots, blooms, billets | 177 057 | 217 580 | 256 981 | 334 124 | 484 431 |
| Scrap | 754 489 | 777 267 | 842 323 | 1 099 278 | 1 024 301 |
| Belgium-Luxembourg | | | | | |
| Pig iron | 116 359 | 172 175 | 227 815 | 225 486 | 201 577 |
| Sponge & powder | 4 395 | 13 263 | 18 741 | 29 127 | 15 850 |
| Ferro-chrome | 39 937 | 41 565 | 39 778 | 32 998 | 31 851 |
| Ferro-silico-chrome | ... | 3 593 | 10 381 | 7 214 | 9 107 |
| Ferro-silico-magnesium | 1 171 | 38 | 79 | 39 | 11 |
| Ferro-manganese | 24 367 | 23 985 | 16 246 | 9 621 | 11 674 |
| Ferro-silico-manganese | 31 139 | 29 953 | 38 032 | 41 307 | 29 858 |
| Ferro-molybdenum | ... | ... | ... | 19 219 | 22 420 |
| Ferro-silicon | 30 427 | 30 962 | 18 856 | 31 000 | 21 812 |
| Other ferro-alloys | 9 135 | 4 342 | 9 678 | 6 445 | 6 700 |
| Silicon metal | 12 440 | 5 873 | 8 227 | 6 078 | 9 095 |
| Ingots, blooms, billets | 498 122 | 548 174 | 395 499 | 368 589 | 639 936 |
| Scrap | 1 799 938 | 1 821 636 | 2 310 658 | 2 851 040 | 2 712 683 |
| Bulgaria | | | | | |
| Ferro-alloys | 4 225 | 5 088 | 8 045 | 5 646 | 3 072 |
| Ingots, blooms, billets | 410 940 | 111 719 | 355 397 | 277 332 | 97 757 |
| Scrap | 375 118 | 459 322 | 572 559 | 769 559 | 784 778 |
| Croatia | | | | | |
| Scrap | 133 451 | 197 532 | 235 322 | 279 852 | 318 840 |
| Cyprus | | | | | |
| Scrap | 26 839 | 38 154 | 41 926 | 46 316 | 55 240 |
| Czech Republic | | | | | |
| Pig iron | 25 352 | 28 844 | 50 125 | 55 687 | 15 526 |
| Ferro-chrome | 2 300 | 287 | 77 | 1 016 | 524 |
| Ferro-vanadium | 2 195 | 2 949 | 3 012 | 3 417 | 2 613 |
| Other ferro-alloys | 2 412 | 4 445 | 6 630 | 12 098 | 19 067 |
| Silicon metal | 816 | 859 | 778 | 4 488 | 512 |
| Ingots, blooms, billets | 250 740 | 287 557 | 249 522 | 267 912 | 251 513 |
| Scrap | 1 000 515 | 1 057 822 | 1 178 514 | 1 930 343 | 1 351 676 |
| Denmark | | | | | |
| Ingots, blooms, billets | 59 258 | 21 432 | 8 119 | 16 223 | 1 203 |
| Scrap | 770 311 | 1 058 048 | 1 310 175 | 1 564 469 | 1 402 982 |
| Estonia | | | | | |
| Pig iron (b) | *700 | *500 | ... | ... | ... |
| Ferro-chrome | 2 283 | — | 5 695 | 45 | ... |
| Other ferro-alloys | 4 269 | 10 270 | 17 725 | 1 193 | 665 |
| Silicon metal | 21 | 1 | ... | ... | ... |
| Scrap | 380 328 | 326 407 | 376 554 | 358 185 | 440 622 |

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Finland | | | | | |
| Ferro-chrome & ferro-silico-chrome | 82 590 | 80 026 | 33 499 | 35 780 | 39 341 |
| Ingots, blooms, billets | 130 066 | 186 989 | 501 945 | 624 170 | 436 083 |
| Scrap | 362 373 | 359 153 | 374 778 | 315 977 | 286 494 |
| France | | | | | |
| Pig iron | 4 426 | 3 378 | 153 | 679 | 350 |
| Sponge & powder | 6 895 | 5 983 | 6 231 | 5 221 | 6 465 |
| Ferro-chrome | 2 478 | 3 747 | 1 456 | 1 074 | 857 |
| Ferro-silico-magnesium | 5 714 | 6 521 | 5 262 | 5 521 | 6 829 |
| Ferro-manganese | 26 049 | 26 302 | 28 094 | 14 360 | 7 181 |
| Ferro-silico-manganese | 62 877 | 73 647 | 53 270 | 63 483 | 76 021 |
| Ferro-molybdenum | 410 | 348 | 300 | 538 | 547 |
| Ferro-nickel | 712 | 104 | 2 | 7 | 25 |
| Ferro-niobium | 784 | 361 | 926 | 521 | 240 |
| Ferro-silicon | 43 956 | 53 682 | 65 871 | 65 881 | 69 551 |
| Ferro-titanium & Fe-Si-Ti | 1 842 | 1 434 | 1 463 | 1 305 | 1 542 |
| Ferro-vanadium | 21 | 25 | 50 | 53 | 98 |
| Other ferro-alloys | 45 650 | 35 746 | 37 534 | 34 781 | 34 138 |
| Ingots, blooms, billets | 2 621 568 | 3 419 270 | 3 420 829 | 3 833 258 | 3 914 427 |
| Scrap | 4 161 312 | 4 656 513 | 4 990 462 | 5 578 148 | 4 955 474 |
| Germany | | | | | |
| Pig iron | 75 137 | 67 365 | 56 571 | 112 911 | 82 834 |
| Sponge & powder | 30 585 | 83 354 | 95 612 | 148 734 | 175 291 |
| Ferro-chrome | 34 379 | 33 992 | 30 640 | 22 758 | 26 472 |
| Ferro-silico-chrome | 3 115 | 608 | 1 | 79 | 4 |
| Ferro-silico-magnesium | 6 912 | 6 825 | 5 551 | 13 887 | 14 254 |
| Ferro-manganese | 19 346 | 13 036 | 8 937 | 13 776 | 12 660 |
| Ferro-silico-manganese | 13 743 | 11 520 | 10 306 | 9 286 | 2 928 |
| Ferro-molybdenum | 903 | 1 283 | 2 054 | 2 597 | 3 867 |
| Ferro-nickel | ... | 57 | 94 | 625 | 31 |
| Ferro-niobium | 816 | 828 | 713 | 1 076 | 1 448 |
| Ferro-phosphorus | 1 149 | 1 163 | 691 | 786 | 936 |
| Ferro-silicon | 66 920 | 64 000 | 60 016 | 61 239 | 53 979 |
| Ferro-titanium & Fe-Si-Ti | 2 877 | 3 607 | 2 478 | 3 069 | 5 263 |
| Ferro-tungsten & Fe-Si-W | 112 | 106 | 268 | 178 | 176 |
| Ferro-vanadium | 373 | 634 | 653 | 600 | 528 |
| Other ferro-alloys | 20 321 | 22 860 | 21 610 | 27 285 | 25 838 |
| Silicon metal | 10 632 | 10 060 | 16 141 | 18 064 | — |
| Ingots, blooms, billets | 2 032 350 | 2 011 458 | 2 563 182 | 2 104 580 | 1 950 158 |
| Scrap | 6 598 673 | 6 880 778 | 6 718 904 | 6 956 839 | 6 692 022 |
| Greece | | | | | |
| Ferro-alloys | 10 175 | 7 976 | 1 742 | 5 528 | 1 044 |
| Ingots, blooms, billets | 5 083 | 1 157 | 2 908 | 64 105 | 48 |
| Scrap | 47 721 | 39 806 | 56 047 | 59 502 | 37 164 |
| Hungary | | | | | |
| Ferro-alloys | 651 | 694 | 436 | 701 | 234 |
| Ingots, blooms, billets | 47 954 | 87 994 | 32 452 | 24 042 | 24 923 |
| Scrap | 462 209 | 553 847 | 618 827 | 887 069 | 761 464 |
| Irish Republic | | | | | |
| Scrap | 133 287 | 228 807 | 292 971 | 347 479 | 352 028 |
| Italy | | | | | |
| Pig iron | 47 031 | 58 982 | 40 069 | 41 068 | 15 740 |
| Sponge & powder | 2 095 | 651 | 130 | 62 | 163 |
| Ferro-chrome | 1 843 | 9 576 | 7 290 | 8 411 | 3 753 |
| Ferro-silico-magnesium | 10 | 2 119 | 1 673 | 3 163 | 30 |
| Ferro-manganese | 17 472 | 5 382 | 6 322 | 8 857 | 10 380 |
| Ferro-silico-manganese | 3 371 | 2 055 | 1 392 | 3 167 | 3 511 |
| Ferro-molybdenum | 525 | 351 | 352 | 162 | 90 |
| Ferro-nickel | ... | ... | ... | ... | 3 967 |
| Ferro-silicon | 3 143 | 2 697 | 3 287 | 3 594 | 5 035 |
| Ferro-vanadium | 1 023 | 2 873 | 817 | 63 | 3 |
| Other ferro-alloys | 1 107 | 975 | 488 | 2 859 | 1 023 |
| Silicon metal | 743 | 1 092 | 583 | 1 667 | 3 931 |
| Ingots, blooms, billets | 770 001 | 786 800 | 546 474 | 402 967 | 698 402 |
| Scrap | 151 196 | 153 190 | 173 616 | 211 385 | 185 688 |

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Latvia | | | | | |
| Ferro-chrome | 24 000 | 11 000 | 20 | 19 | ... |
| Scrap | 37 885 | 6 328 | 6 415 | 64 936 | 217 361 |
| Lithuania | | | | | |
| Scrap | 563 394 | 704 948 | 618 231 | 677 727 | 599 084 |
| Malta | | | | | |
| Scrap | 18 594 | 20 322 | 23 093 | 12 424 | 5 252 |
| Netherlands | | | | | |
| Pig iron | 62 667 | 5 131 | 7 377 | 31 821 | 40 552 |
| Sponge & powder | 76 545 | 107 474 | 15 255 | 15 794 | 46 464 |
| Ferro-chrome | 27 898 | 9 122 | 38 469 | 70 272 | 81 105 |
| Ferro-silico-chrome | 32 | 5 | 68 | 18 | 508 |
| Ferro-manganese | 26 335 | 23 131 | 25 842 | 53 367 | 49 203 |
| Ferro-silico-manganese | 25 958 | 7 037 | 20 830 | 16 109 | 13 994 |
| Ferro-molybdenum | 3 401 | 1 242 | 1 610 | 2 712 | 4 304 |
| Ferro-nickel | 10 796 | 4 159 | 4 112 | 9 855 | 23 252 |
| Ferro-niobium | 7 512 | 130 | 131 | 47 | 126 |
| Ferro-silicon | 4 937 | 9 899 | 27 511 | 27 328 | 95 845 |
| Ferro-titanium & Fe-Si-Ti | 780 | 225 | 213 | 660 | 6 235 |
| Ferro-tungsten & Fe-Si-W | 380 | 217 | 264 | 193 | 624 |
| Ferro-vanadium | 2 194 | 910 | 2 838 | 2 901 | 22 495 |
| Other ferro-alloys | 9 767 | 9 379 | 10 519 | 5 925 | 9 700 |
| Silicon metal | 14 014 | 8 819 | 15 957 | 10 319 | 40 393 |
| Ingots, blooms, billets | 312 200 | 538 825 | 239 603 | 309 454 | 152 593 |
| Scrap | 3 072 052 | 3 064 283 | 3 242 779 | 3 859 394 | 4 140 362 |
| Norway | | | | | |
| Pig iron (b) | *46 600 | *119 400 | *118 400 | *123 700 | *66 800 |
| Ferro-chrome (b) | *76 100 | *87 500 | *1 900 | *600 | *200 |
| Ferro-manganese (b) | *193 000 | *169 600 | *213 700 | *338 900 | *272 100 |
| Ferro-silico-manganese | 275 291 | 240 477 | 255 243 | 264 163 | 289 497 |
| Ferro-silicon | 324 858 | 251 252 | 194 246 | 256 018 | 179 503 |
| Other ferro-alloys | 48 994 | 49 366 | 53 913 | 59 696 | 55 564 |
| Silicon metal | 153 017 | 150 681 | 151 476 | 176 458 | 168 790 |
| Ingots, blooms, billets | 110 888 | 126 094 | 160 127 | 148 514 | 151 882 |
| Scrap | 150 020 | 227 592 | 263 510 | 270 903 | 267 051 |
| Poland | | | | | |
| Pig iron | 40 670 | 3 003 | 16 023 | 57 696 | 4 917 |
| Ferro-manganese & Fe-Si-Mn | 20 | 3 637 | 1 451 | 66 666 | 22 713 |
| Ferro-silicon | 50 649 | 43 021 | 84 406 | 85 538 | 64 974 |
| Other ferro-alloys | 10 522 | 96 | 86 | 195 | 915 |
| Ingots, blooms, billets | 948 473 | 1 034 776 | 975 777 | 1 585 494 | 1 249 618 |
| Scrap | 1 269 594 | 1 535 305 | 1 804 181 | 1 973 116 | 1 426 831 |
| Portugal | | | | | |
| Ingots, blooms, billets | 44 980 | 15 058 | 33 032 | 184 547 | 159 868 |
| Scrap | 246 777 | 231 761 | 201 189 | 259 297 | 330 536 |
| Romania | | | | | |
| Pig iron | 2 548 | 2 686 | 6 367 | 3 339 | ... |
| Sponge & powder | 7 264 | 7 797 | 6 886 | 9 187 | 12 522 |
| Ferro-silico-manganese | (a) ... | (a) ... | 124 557 | 179 788 | 142 617 |
| Other ferro-alloys | 66 286 | 88 368 | 2 529 | 3 891 | 8 657 |
| Ingots, blooms, billets | 435 748 | 162 991 | 130 415 | 161 438 | 100 515 |
| Scrap | 1 679 265 | 2 070 119 | 2 386 017 | 2 394 490 | 1 661 747 |
| Slovakia | | | | | |
| Pig iron | 23 551 | 13 213 | 37 145 | 73 303 | 31 261 |
| Ferro-manganese | 36 573 | 47 074 | 37 139 | 57 440 | 41 918 |
| Ferro-silico-manganese | 47 734 | 56 484 | 54 945 | 66 902 | 51 623 |
| Ferro-silicon | 53 701 | 39 550 | 42 018 | 40 135 | 29 130 |
| Other ferro-alloys | 18 111 | 14 541 | 10 013 | 11 834 | 10 741 |
| Ingots, blooms, billets | 202 645 | 191 414 | 125 822 | 286 072 | 289 090 |
| Scrap | 375 552 | 450 126 | 497 645 | 544 714 | 390 620 |
| Slovenia | | | | | |
| Ferro-alloys | 27 200 | 31 083 | 34 420 | 37 714 | 51 410 |
| Silicon metal | ... | 40 | 188 | 1 608 | 252 |
| Ingots, blooms, billets | 11 953 | 8 292 | 13 311 | 15 327 | 12 647 |
| Scrap | 136 041 | 126 233 | 113 448 | 186 726 | 225 627 |

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Spain | | | | | |
| Pig iron | 2 900 | 4 177 | 2 751 | 3 258 | 12 709 |
| Sponge & powder | 4 956 | 3 920 | 4 447 | 4 914 | 4 397 |
| Ferro-chrome | 466 | 472 | 369 | 551 | 775 |
| Ferro-manganese | 66 834 | 73 506 | 62 260 | 82 733 | 101 850 |
| Ferro-silico-manganese | 34 622 | 29 297 | 44 214 | 40 130 | 42 916 |
| Ferro-molybdenum | 120 | 326 | 342 | 60 | 331 |
| Ferro-silicon | 5 826 | 14 730 | 13 140 | 19 332 | 11 843 |
| Other ferro-alloys | 1 120 | 750 | 891 | 558 | 992 |
| Silicon metal | 14 027 | 17 621 | 11 035 | 13 254 | 16 742 |
| Ingots, blooms, billets | 263 813 | 241 944 | 182 247 | 130 079 | 118 414 |
| Scrap | 45 419 | 93 970 | 103 413 | 205 298 | 140 200 |
| Sweden | | | | | |
| Pig iron | 35 593 | 30 079 | 118 378 | 116 550 | 99 496 |
| Sponge & powder | 11 324 | 11 356 | 9 311 | 12 306 | 9 064 |
| Ferro-chrome | 1 023 | 617 | 1 070 | 1 830 | 1 801 |
| Ferro-silico-magnesium | 1 102 | 392 | 479 | 235 | 60 |
| Ferro-manganese & Fe-Si-Mn | 1 189 | 6 903 | 1 159 | 1 605 | 3 456 |
| Ferro-molybdenum | 65 | 745 | 71 | 87 | 158 |
| Ferro-phosphorus | 399 | 1 203 | 463 | 281 | 294 |
| Ferro-silicon | 762 | 736 | 182 | 441 | 731 |
| Ferro-vanadium | 24 | 427 | 27 | 99 | 249 |
| Other ferro-alloys | 3 138 | 6 903 | 1 527 | 2 796 | 1 525 |
| Silicon metal | 1 766 | 6 742 | 2 790 | 6 387 | 6 049 |
| Ingots, blooms, billets | 197 800 | 297 913 | 166 876 | 367 562 | 232 958 |
| Scrap | 560 297 | 722 509 | 708 654 | 741 254 | 863 474 |
| Switzerland | | | | | |
| Ingots, blooms, billets | 2 459 | 31 317 | 51 008 | 51 639 | 83 219 |
| Scrap | 457 523 | 412 341 | 451 452 | 539 629 | 561 972 |
| Turkey | | | | | |
| Pig iron | 109 862 | 12 895 | 1 060 | 50 165 | 9 358 |
| Ferro-chrome | 15 446 | 61 163 | 53 695 | 16 286 | 38 738 |
| Other ferro-alloys | 673 | 1 156 | 5 361 | 5 092 | 5 474 |
| Ingots, blooms, billets | 2 132 421 | 2 734 188 | 3 178 909 | 3 769 934 | 2 174 257 |
| Scrap | 28 937 | 34 512 | 48 741 | 82 460 | 64 281 |
| United Kingdom | | | | | |
| Pig iron | 6 749 | 3 376 | 1 459 | 957 | 1 387 |
| Sponge & powder | 3 164 | 3 134 | 3 666 | 4 003 | 3 605 |
| Ferro-chrome & ferro-silico-chrome | 1 206 | 814 | 1 711 | 2 384 | 6 238 |
| Ferro-silico-magnesium | ... | ... | ... | 316 | 542 |
| Ferro-manganese | 792 | 1 874 | 434 | 1 554 | 661 |
| Ferro-silico-manganese | 8 | 116 | 42 | 8 247 | 5 003 |
| Ferro-molybdenum | 9 278 | 11 965 | 14 081 | 14 213 | 11 501 |
| Ferro-nickel | 104 | 368 | 424 | 125 | 55 |
| Ferro-niobium | 280 | 46 | 59 | 47 | 79 |
| Ferro-phosphorus | 26 | 57 | 109 | 1 336 | 189 |
| Ferro-silicon | 2 247 | 3 155 | 1 845 | 2 699 | 2 652 |
| Ferro-titanium & Fe-Si-Ti | 16 422 | 16 334 | 14 676 | 20 703 | 17 361 |
| Ferro-vanadium | 118 | 55 | 39 | 17 | 156 |
| Other ferro-alloys | 6 013 | 9 226 | 6 349 | 5 544 | 6 204 |
| Silicon metal | 1 914 | 4 050 | 2 699 | 1 555 | 2 466 |
| Ingots, blooms, billets | 746 730 | 560 796 | 1 305 976 | 1 712 102 | 2 246 377 |
| Scrap | 4 821 840 | 5 538 569 | 7 174 934 | 6 772 111 | 6 105 955 |

Note(s):-

(1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

(a) Included with 'other ferro-alloys'

(b) BGS estimates, based on known imports into certain countries

Imports of iron, steel and ferro-alloys

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Pig iron | 34 724 | 30 284 | 34 462 | 66 196 | 51 982 |
| Sponge & powder | 10 385 | 14 873 | 12 042 | 10 917 | 25 214 |
| Ferro-chrome | 33 710 | 24 412 | 32 874 | 43 438 | 41 046 |
| Ferro-silico-magnesium | 829 | 877 | 969 | 627 | 678 |
| Ferro-manganese | 24 511 | 37 772 | 34 748 | 39 026 | 37 865 |
| Ferro-silico-manganese | 5 054 | 4 829 | 11 795 | 6 817 | 26 572 |
| Ferro-molybdenum | 1 087 | 1 348 | 1 066 | 1 011 | 617 |
| Ferro-niobium & ferro-niobium-tantalum | 543 | 781 | 1 669 | 934 | 899 |
| Ferro-phosphorus | 990 | 1 023 | 1 645 | 1 433 | 1 749 |
| Ferro-silicon | 20 884 | 23 493 | 36 918 | 47 223 | 32 445 |
| Ferro-titanium & Fe-Si-Ti | 737 | 1 136 | 1 427 | 961 | 1 121 |
| Ferro-tungsten & Fe-Si-W | 845 | 562 | 712 | 589 | 535 |
| Ferro-vanadium | 622 | 571 | 643 | 587 | 256 |
| Other ferro-alloys | 3 640 | 3 083 | 3 631 | 3 321 | 3 981 |
| Silicon metal | 8 478 | 10 273 | 9 822 | 9 127 | 11 698 |
| Ingots, blooms, billets | 163 944 | 120 409 | 99 393 | 156 796 | 108 004 |
| Scrap | 833 909 | 865 061 | 936 512 | 1 017 497 | 1 113 082 |
| Belgium-Luxembourg | | | | | |
| Pig iron | 233 325 | 270 015 | 291 507 | 396 174 | 330 709 |
| Sponge & powder | 8 425 | 13 234 | 26 084 | 107 639 | 48 915 |
| Ferro-chrome | 155 561 | 176 217 | 198 691 | 215 638 | 220 896 |
| Ferro-silico-chrome | 7 992 | 3 426 | 12 392 | 7 435 | 9 587 |
| Ferro-silico-magnesium | 1 414 | 425 | 327 | 993 | 1 656 |
| Ferro-manganese | 63 766 | 67 683 | 54 564 | 49 305 | 60 564 |
| Ferro-silico-manganese | 58 555 | 56 769 | 54 676 | 56 622 | 60 454 |
| Ferro-molybdenum | 2 355 | 3 573 | 5 141 | 4 317 | 5 199 |
| Ferro-nickel | 36 455 | 42 337 | 32 673 | 51 796 | 61 454 |
| Ferro-niobium | 849 | 720 | 719 | 712 | 849 |
| Ferro-phosphorus | 604 | 769 | 1 124 | 1 237 | 1 700 |
| Ferro-silicon | 67 460 | 73 251 | 63 474 | 93 591 | 79 901 |
| Ferro-titanium & Fe-Si-Ti | 1 436 | 1 761 | 2 069 | 1 677 | 2 141 |
| Ferro-tungsten & Fe-Si-W | ... | ... | ... | ... | 309 |
| Ferro-vanadium | 331 | 182 | 412 | 568 | 650 |
| Other ferro-alloys | 4 791 | 8 591 | 5 186 | 9 673 | 10 854 |
| Silicon metal | 12 750 | 14 985 | 15 579 | 15 136 | 18 563 |
| Ingots, blooms, billets | 2 631 575 | 2 383 948 | 3 894 592 | 2 814 705 | 3 452 850 |
| Scrap | 2 740 480 | 3 146 151 | 3 896 924 | 4 413 160 | 3 761 788 |
| Bulgaria | | | | | |
| Pig iron | 21 281 | 16 304 | 45 935 | 14 228 | 19 624 |
| Ferro-manganese | 4 707 | 2 047 | 5 152 | 5 116 | 5 540 |
| Other ferro-alloys | 7 256 | 4 440 | 9 232 | 7 441 | 6 539 |
| Silicon metal | ... | 137 | 232 | 663 | 585 |
| Ingots, blooms, billets | 62 056 | 7 951 | 116 005 | 280 895 | 275 001 |
| Scrap | 55 376 | 43 260 | 74 445 | 90 491 | 108 450 |
| Croatia | | | | | |
| Pig iron | 12 560 | 14 124 | 14 821 | 15 175 | 15 270 |
| Ferro-alloys | 1 706 | 2 265 | 2 421 | 2 980 | 2 893 |
| Silicon metal | 438 | 391 | 350 | 510 | 261 |
| Ingots, blooms, billets | 22 673 | 13 527 | 18 523 | 3 562 | 12 421 |
| Scrap | 7 569 | 3 937 | 5 361 | 7 156 | 18 407 |
| Czech Republic | | | | | |
| Pig iron | 91 906 | 90 568 | 72 151 | 88 014 | 88 549 |
| Sponge & powder | 670 | 5 739 | 21 478 | 5 661 | 6 130 |
| Ferro-chrome | 39 975 | 43 181 | 13 193 | 16 248 | 16 772 |
| Ferro-manganese | 20 716 | 21 055 | 24 154 | 27 051 | 30 921 |
| Ferro-silico-manganese | 25 660 | 26 130 | 55 989 | 59 361 | 53 258 |
| Ferro-molybdenum | 1 157 | 1 054 | 1 346 | 1 710 | 1 744 |
| Ferro-silicon | 20 640 | 20 570 | 26 721 | 34 812 | 34 114 |
| Ferro-vanadium | 278 | 250 | 225 | 395 | 564 |
| Other ferro-alloys | 8 092 | 7 851 | 8 745 | 9 817 | 10 959 |
| Silicon metal | 2 832 | 2 713 | 4 095 | 8 401 | 2 589 |
| Ingots, blooms, billets | 272 751 | 263 839 | 268 231 | 352 672 | 484 450 |
| Scrap | 347 858 | 372 348 | 506 094 | 593 330 | 392 135 |

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|
| Denmark | | | | | |
| Pig iron | 112 108 | 59 866 | 5 678 | 14 844 | 12 720 |
| Sponge & powder | 1 943 | 14 155 | 6 471 | 103 479 | 29 188 |
| Ferro-manganese | 3 497 | 1 674 | 16 | 38 | 161 |
| Ferro-silico-manganese | 6 079 | 2 071 | ... | ... | 818 |
| Ferro-silicon | 2 479 | 337 | 2 495 | 3 564 | 2 548 |
| Other ferro-alloys | 13 822 | 784 | 459 | 712 | 366 |
| Silicon metal | 1 686 | 2 179 | 1 521 | 1 061 | 659 |
| Ingots, blooms, billets | 11 604 | 75 117 | 588 317 | 598 552 | 551 407 |
| Scrap | 326 574 | 325 841 | 237 035 | 250 551 | 313 558 |
| Estonia | | | | | |
| Pig iron | ... | ... | ... | ... | 240 |
| Ferro-alloys | 12 273 | 9 905 | 16 840 | 2 132 | 2 125 |
| Silicon metal | 649 | 946 | 1 827 | 574 | 125 |
| Scrap | 28 995 | 17 142 | 35 654 | 85 689 | 111 930 |
| Finland | | | | | |
| Pig iron | 42 707 | 72 083 | 41 213 | 30 453 | 27 160 |
| Sponge & powder | 12 235 | 16 335 | 28 412 | 16 906 | 969 |
| Ferro-chrome | 5 073 | 5 690 | 9 395 | 6 562 | 7 404 |
| Ferro-manganese | 13 199 | 12 744 | 16 237 | 15 805 | 14 728 |
| Ferro-silico-manganese | 29 989 | 32 832 | 41 466 | 40 800 | 38 375 |
| Ferro-molybdenum | 1 873 | 2 333 | 2 776 | 2 709 | 2 293 |
| Ferro-nickel | 61 421 | 61 244 | 71 996 | 60 213 | 47 531 |
| Ferro-niobium | 426 | 485 | 494 | 470 | 478 |
| Ferro-phosphorus | 221 | 139 | 506 | 570 | 489 |
| Ferro-silicon | 18 928 | 20 729 | 37 976 | 32 507 | 25 723 |
| Ferro-titanium & Fe-Si-Ti | 1 271 | 1 271 | 1 632 | 2 063 | 1 912 |
| Ferro-vanadium | 175 | 222 | 238 | 250 | 243 |
| Other ferro-alloys | 4 767 | 3 162 | 3 640 | 4 448 | 4 505 |
| Silicon metal | 3 007 | 2 397 | 1 601 | 2 097 | 1 306 |
| Ingots, blooms, billets | 448 017 | 350 229 | 196 611 | 253 730 | 51 678 |
| Scrap | 482 372 | 476 516 | 781 633 | 865 142 | 756 267 |
| France | | | | | |
| Pig iron | 235 212 | 225 850 | 254 512 | 237 824 | 249 585 |
| Sponge & powder | 124 727 | 140 863 | 148 215 | 151 090 | 184 661 |
| Ferro-chrome | 253 110 | 310 760 | 260 231 | 224 722 | 192 129 |
| Ferro-silico-chrome | 127 | 2 116 | 1 524 | 59 | 122 |
| Ferro-silico-magnesium | 2 006 | 2 166 | 1 840 | 1 524 | 920 |
| Ferro-manganese | 42 103 | 57 442 | 46 048 | 96 276 | 55 239 |
| Ferro-silico-manganese | 53 527 | 64 538 | 73 362 | 61 446 | 58 403 |
| Ferro-molybdenum | 5 803 | 4 839 | 4 643 | 5 474 | 5 235 |
| Ferro-nickel | 27 640 | 36 725 | 28 974 | 10 966 | 9 229 |
| Ferro-niobium | 2 133 | 1 703 | 2 286 | 2 297 | 2 722 |
| Ferro-phosphorus | 2 550 | 2 464 | 2 160 | 2 942 | 2 536 |
| Ferro-silicon | 68 969 | 87 071 | 70 729 | 62 260 | 71 269 |
| Ferro-titanium & Fe-Si-Ti | 5 259 | 5 441 | 4 828 | 4 768 | 6 448 |
| Ferro-tungsten & Fe-Si-W | 622 | 283 | 485 | 346 | 523 |
| Ferro-vanadium | 1 401 | 940 | 1 063 | 1 031 | 1 351 |
| Other ferro-alloys | 42 196 | 16 543 | 16 253 | 18 670 | 27 582 |
| Silicon metal | 22 084 | 19 212 | 16 489 | 19 299 | 25 257 |
| Ingots, blooms, billets | 2 120 903 | 1 777 677 | 1 595 528 | 1 803 335 | 1 621 219 |
| Scrap | 2 934 281 | 2 833 589 | 3 019 857 | 3 449 108 | 2 819 160 |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|
| Germany | | | | | |
| Pig iron | 280 829 | 229 592 | 221 451 | 342 152 | 320 481 |
| Sponge & powder | 288 427 | 80 690 | 142 967 | 180 615 | 156 048 |
| Ferro-chrome | 381 746 | 383 712 | 478 203 | 440 993 | 454 703 |
| Ferro-silico-chrome | 6 087 | 2 740 | 8 354 | 11 367 | 1 429 |
| Ferro-silico-magnesium | 12 538 | 12 651 | 1 103 | 1 722 | 6 831 |
| Ferro-manganese | 198 415 | 183 336 | 178 917 | 175 176 | 170 967 |
| Ferro-silico-manganese | 130 975 | 147 113 | 144 637 | 172 164 | 172 967 |
| Ferro-molybdenum | 11 104 | 12 126 | 10 369 | 13 214 | 15 594 |
| Ferro-nickel | 80 666 | 89 782 | 82 618 | 90 614 | 157 091 |
| Ferro-niobium | 3 268 | 3 746 | 3 197 | 3 864 | 4 361 |
| Ferro-phosphorus | 5 285 | 5 807 | 4 728 | 4 131 | 4 985 |
| Ferro-silicon | 209 195 | 195 233 | 231 346 | 237 700 | 238 120 |
| Ferro-titanium & Fe-Si-Ti | 8 310 | 11 188 | 8 862 | 6 845 | 10 302 |
| Ferro-tungsten & Fe-Si-W | 561 | 498 | 486 | 400 | 600 |
| Ferro-vanadium | 6 832 | 4 767 | 5 471 | 4 006 | 4 843 |
| Other ferro-alloys | 33 594 | 43 225 | 25 367 | 22 754 | 25 139 |
| Silicon metal | 94 338 | 108 062 | 120 821 | 130 408 | 156 690 |
| Ingots, blooms, billets | 1 310 471 | 1 160 168 | 1 306 210 | 1 945 817 | 2 331 264 |
| Scrap | 3 560 264 | 3 804 881 | 4 364 130 | 5 411 710 | 5 026 286 |
| Greece | | | | | |
| Pig iron | 14 682 | 15 085 | 10 844 | 15 494 | 6 415 |
| Ferro-manganese | 2 188 | 1 695 | 2 454 | 2 604 | 1 293 |
| Ferro-silico-manganese | 15 462 | 24 110 | 19 505 | 23 808 | 31 657 |
| Ferro-silicon | 11 059 | 3 990 | 7 353 | 7 899 | 6 339 |
| Other ferro-alloys | 163 | 642 | 540 | 1 022 | 1 148 |
| Silicon metal | 873 | 856 | 1 140 | 1 055 | 1 126 |
| Ingots, blooms, billets | 505 889 | 148 798 | 211 021 | 229 854 | 90 412 |
| Scrap | 776 523 | 1 179 017 | 1 138 900 | 1 178 451 | 1 545 912 |
| Hungary | | | | | |
| Pig iron | 23 983 | 23 881 | 19 312 | 14 429 | 8 808 |
| Ferro-manganese | 10 441 | 10 908 | 11 503 | 9 152 | 2 898 |
| Ferro-silicon | 5 736 | 5 173 | 5 530 | 5 295 | 5 013 |
| Other ferro-alloys | 5 764 | 6 406 | 4 089 | 4 376 | 5 417 |
| Silicon metal | 2 772 | 3 567 | 4 686 | 5 196 | 2 260 |
| Ingots, blooms, billets | 168 833 | 82 919 | 91 664 | 82 336 | 102 861 |
| Scrap | 111 440 | 135 594 | 112 463 | 62 753 | 45 860 |
| Irish Republic | | | | | |
| Pig iron | 3 401 | 5 120 | 4 808 | 3 812 | 3 215 |
| Ferro-alloys | 3 772 | 663 | 224 | 286 | 474 |
| Silicon metal | 1 032 | 219 | 431 | 367 | 221 |
| Ingots, blooms, billets | 1 203 | 1 601 | 1 291 | 1 487 | 1 637 |
| Scrap | 26 285 | 1 420 | 786 | 1 277 | 1 137 |
| Italy | | | | | |
| Pig iron | 1 308 092 | 1 121 250 | 1 209 778 | 1 304 367 | 1 729 086 |
| Sponge & powder | 220 836 | 289 728 | 316 524 | 206 956 | 424 810 |
| Ferro-chrome | 303 726 | 378 402 | 368 649 | 400 159 | 428 716 |
| Ferro-silico-chrome | ... | 189 | 30 | 5 | 32 |
| Ferro-silico-magnesium | 4 570 | 7 651 | 6 601 | 7 826 | 5 409 |
| Ferro-manganese | 74 801 | 77 121 | 69 901 | 79 827 | 84 920 |
| Ferro-silico-manganese | 95 270 | 151 140 | 150 805 | 182 945 | 174 391 |
| Ferro-molybdenum | 5 063 | 3 866 | 4 954 | 7 289 | 7 294 |
| Ferro-nickel | 36 887 | 60 680 | 59 367 | 82 107 | 141 603 |
| Ferro-niobium | 1 431 | 1 523 | 1 408 | 1 403 | 2 457 |
| Ferro-phosphorus | 917 | 1 021 | 662 | 830 | 987 |
| Ferro-silicon | 134 547 | 114 779 | 130 582 | 119 820 | 141 789 |
| Ferro-titanium & Fe-Si-Ti | 3 120 | 2 462 | 3 065 | 3 379 | 3 978 |
| Ferro-tungsten & Fe-Si-W | 177 | 108 | 123 | 229 | 208 |
| Ferro-vanadium | 2 014 | 2 180 | 1 759 | 1 890 | 1 945 |
| Other ferro-alloys | 14 245 | 17 338 | 15 096 | 17 062 | 17 384 |
| Silicon metal | 42 596 | 37 799 | 48 298 | 46 108 | 49 129 |
| Ingots, blooms, billets | 2 270 890 | 2 138 491 | 2 510 222 | 3 874 346 | 4 310 404 |
| Scrap | 4 348 543 | 4 045 986 | 4 380 744 | 5 606 124 | 5 367 259 |

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|
| Latvia | | | | | |
| Pig iron | 14 209 | 14 351 | 79 359 | 75 448 | 54 639 |
| Ferro-alloys | 7 585 | 8 980 | 10 920 | 16 240 | 12 222 |
| Silicon metal | 1 895 | 2 572 | 5 638 | 2 220 | 1 711 |
| Ingots, blooms, billets | 91 262 | 99 588 | 172 092 | 195 467 | 206 550 |
| Scrap | 178 503 | 160 459 | 174 272 | 171 941 | 161 538 |
| Lithuania | | | | | |
| Scrap | 32 421 | 96 950 | 30 508 | 82 325 | 74 816 |
| Netherlands | | | | | |
| Pig iron | 132 065 | 144 375 | 63 821 | 71 664 | 107 828 |
| Sponge & powder | 42 829 | 114 868 | 71 606 | 59 030 | 131 170 |
| Ferro-chrome | 126 622 | 114 878 | 68 424 | 176 862 | 170 806 |
| Ferro-silico-chrome | 2 487 | 398 | 6 | 616 | 621 |
| Ferro-silico-magnesium | 318 | 3 212 | 1 305 | ... | ... |
| Ferro-manganese | 42 022 | 42 054 | 72 916 | 112 073 | 115 972 |
| Ferro-silico-manganese | 35 316 | 40 133 | 54 901 | 33 492 | 30 114 |
| Ferro-molybdenum | 8 781 | 1 457 | 1 800 | 5 282 | 5 100 |
| Ferro-nickel | 23 658 | 12 428 | 9 213 | 38 872 | 39 305 |
| Ferro-niobium | 7 888 | 31 | 16 | 16 | 51 |
| Ferro-phosphorus | 2 720 | 1 976 | 1 421 | ... | ... |
| Ferro-silicon | 90 882 | 129 678 | 110 329 | 153 435 | 145 459 |
| Ferro-titanium & Fe-Si-Ti | 1 736 | 1 565 | 2 083 | 4 272 | 11 496 |
| Ferro-tungsten & Fe-Si-W | 370 | 393 | 405 | 625 | 1 148 |
| Ferro-vanadium | 1 969 | 3 240 | 3 565 | 3 608 | 5 100 |
| Other ferro-alloys | 4 798 | 6 654 | 4 002 | 5 680 | 7 412 |
| Silicon metal | 32 276 | 33 395 | 43 195 | 36 792 | 52 931 |
| Ingots, blooms, billets | 119 504 | 102 428 | 124 817 | 302 637 | 322 908 |
| Scrap | 1 272 600 | 1 378 767 | 1 751 693 | 2 250 964 | 2 030 115 |
| Norway | | | | | |
| Pig iron | 18 207 | 16 844 | 14 639 | 8 823 | 10 841 |
| Sponge & powder | 44 037 | 48 170 | 45 271 | 38 519 | 13 729 |
| Ferro-chrome | 762 | 499 | 571 | 860 | 1 251 |
| Ferro-manganese | 10 848 | 3 987 | 5 921 | 9 703 | 6 154 |
| Ferro-silico-manganese | 19 | 716 | 3 560 | 933 | 1 071 |
| Ferro-silicon | 13 610 | 14 177 | 19 180 | 11 684 | 25 663 |
| Other ferro-alloys | 2 145 | 1 543 | 2 016 | 1 679 | 1 877 |
| Silicon metal | 8 649 | 8 629 | 13 424 | 17 653 | 26 714 |
| Ingots, blooms, billets | 161 217 | 132 220 | 101 819 | 150 611 | 142 986 |
| Scrap | 334 136 | 347 080 | 381 683 | 416 062 | 345 634 |
| Poland | | | | | |
| Pig iron | 146 508 | 103 349 | 86 108 | 150 163 | 239 240 |
| Sponge & powder | 1 876 | 13 193 | 34 091 | 34 456 | 24 490 |
| Ferro-chrome | 7 729 | 7 716 | 8 073 | 10 352 | 10 863 |
| Ferro-manganese | 43 277 | 42 851 | 37 530 | 46 414 | 29 230 |
| Ferro-silico-manganese | 28 401 | 40 023 | 53 968 | 64 985 | 51 197 |
| Ferro-molybdenum | 809 | 833 | 829 | 1 138 | 1 178 |
| Ferro-silicon | 24 657 | 25 664 | 27 132 | 29 551 | 22 769 |
| Ferro-vanadium | 386 | 308 | 228 | 393 | 313 |
| Other ferro-alloys | 6 424 | 6 431 | 6 322 | 7 454 | 11 871 |
| Silicon metal | 5 665 | 6 208 | 10 586 | 9 967 | 9 243 |
| Ingots, blooms, billets | 48 142 | 31 962 | 85 027 | 191 722 | 298 314 |
| Scrap | 104 820 | 69 947 | 96 426 | 278 271 | 238 113 |
| Portugal | | | | | |
| Pig iron | 23 395 | 25 139 | 12 763 | 16 089 | 19 713 |
| Ferro-manganese | 603 | 490 | 779 | 889 | 885 |
| Ferro-silico-manganese | 3 204 | 2 331 | 5 757 | 1 742 | 10 021 |
| Ferro-molybdenum | 168 | 126 | 85 | 193 | 759 |
| Ferro-silicon | 3 439 | 2 296 | 2 339 | 1 881 | 3 028 |
| Other ferro-alloys | 5 774 | 4 636 | 3 809 | 2 788 | 8 440 |
| Ingots, blooms, billets | 73 499 | 123 087 | 5 829 | 7 167 | 10 538 |
| Scrap | 184 327 | 218 978 | 353 646 | 292 753 | 653 988 |
| Romania | | | | | |
| Ferro-alloys | 59 826 | 66 087 | 69 411 | 92 302 | 88 454 |
| Silicon metal | 1 759 | 1 590 | 5 888 | 3 401 | 2 813 |
| Ingots, blooms, billets | 648 391 | 724 751 | 510 940 | 559 793 | 448 454 |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------|-----------|-----------|-----------|-----------|-----------|
| Slovakia | | | | | |
| Pig iron | 19 209 | 20 219 | 14 998 | 29 498 | 39 400 |
| Sponge & powder | 26 | 15 318 | 11 704 | 11 141 | 13 832 |
| Ferro-alloys | 24 870 | 31 332 | 36 038 | 35 878 | 44 534 |
| Silicon metal | 50 | 6 496 | 7 593 | 8 199 | 6 279 |
| Ingots, blooms, billets | 4 015 | 29 081 | 17 534 | 15 927 | 10 753 |
| Scrap | 383 068 | 475 898 | 389 383 | 241 718 | 197 550 |
| Slovenia | | | | | |
| Pig iron | 13 497 | 14 851 | 19 260 | 27 783 | 32 217 |
| Ferro-alloys | 28 298 | 32 616 | 34 959 | 44 254 | 71 299 |
| Silicon metal | 3 547 | 4 059 | 6 483 | 10 171 | 6 393 |
| Ingots, blooms, billets | 5 800 | 3 620 | 3 312 | 3 199 | 3 505 |
| Scrap | 249 517 | 262 294 | 316 188 | 386 832 | 434 585 |
| Spain | | | | | |
| Pig iron | 321 671 | 397 194 | 434 682 | 593 588 | 806 327 |
| Sponge & powder | 738 608 | 640 298 | 593 176 | 670 063 | 516 423 |
| Ferro-chrome | 246 756 | 229 425 | 579 714 | 221 156 | 200 543 |
| Ferro-silico-chrome | 2 951 | 1 878 | ... | 48 | 1 017 |
| Ferro-silico-magnesium | 4 035 | 3 529 | 3 979 | 6 183 | 5 256 |
| Ferro-manganese | 53 221 | 45 100 | 27 846 | 19 817 | 16 489 |
| Ferro-silico-manganese | 26 375 | 28 237 | 56 110 | 75 061 | 66 531 |
| Ferro-molybdenum | 3 077 | 3 486 | 4 042 | 3 456 | 6 327 |
| Ferro-nickel | 49 769 | 51 626 | 60 141 | 58 664 | 59 113 |
| Ferro-niobium | 271 | 335 | 348 | 491 | 906 |
| Ferro-phosphorus | 2 127 | 2 051 | 2 020 | 2 072 | 2 036 |
| Ferro-silicon | 50 862 | 43 230 | 56 258 | 56 736 | 39 623 |
| Ferro-titanium & Fe-Si-Ti | 1 059 | 496 | 1 017 | 1 212 | 1 880 |
| Ferro-vanadium | 1 688 | 971 | 1 050 | 1 077 | 824 |
| Other ferro-alloys | 11 130 | 9 865 | 6 818 | 11 175 | 12 821 |
| Silicon metal | 3 816 | 4 528 | 3 677 | 5 660 | 4 160 |
| Ingots, blooms, billets | 855 775 | 1 062 109 | 1 524 971 | 1 495 840 | 1 219 342 |
| Scrap | 6 290 607 | 5 533 584 | 6 389 902 | 7 093 195 | 6 975 101 |
| Sweden | | | | | |
| Pig iron | 40 289 | 26 215 | 24 894 | 29 369 | 38 223 |
| Sponge & powder | 3 704 | 2 667 | 2 746 | 3 074 | 2 091 |
| Ferro-chrome | 92 574 | 109 391 | 85 830 | 72 926 | 86 040 |
| Ferro-silico-chrome | 3 239 | 2 789 | 1 094 | 2 521 | 2 030 |
| Ferro-silico-magnesium | 2 180 | 1 195 | 1 060 | 932 | 914 |
| Ferro-manganese | 33 034 | 33 238 | 37 190 | 32 782 | 43 005 |
| Ferro-silico-manganese | 17 309 | 13 357 | 19 493 | 17 887 | 18 995 |
| Ferro-molybdenum | 3 585 | 3 728 | 3 797 | 4 369 | 5 364 |
| Ferro-nickel | 12 418 | 8 765 | 8 738 | 948 | 7 431 |
| Ferro-niobium | 623 | 747 | 732 | 809 | 1 156 |
| Ferro-phosphorus | 777 | 1 553 | 739 | 920 | 314 |
| Ferro-silicon | 42 809 | 41 278 | 41 098 | 38 534 | 48 950 |
| Ferro-titanium & Fe-Si-Ti | 1 736 | 1 709 | 1 405 | 1 627 | 3 212 |
| Ferro-tungsten & Fe-Si-W | 867 | 183 | 321 | 564 | 195 |
| Ferro-vanadium | 855 | 1 037 | 1 059 | 1 375 | 1 316 |
| Other ferro-alloys | 7 631 | 5 822 | 4 519 | 6 534 | 5 888 |
| Silicon metal | 5 095 | 10 639 | 6 316 | 10 542 | 10 832 |
| Ingots, blooms, billets | 366 264 | 426 018 | 495 734 | 491 102 | 294 616 |
| Scrap | 376 456 | 429 341 | 351 024 | 271 041 | 254 358 |
| Switzerland | | | | | |
| Pig iron | 33 986 | 19 466 | 22 120 | 22 954 | 24 628 |
| Sponge & powder | 6 176 | 6 163 | 6 792 | 7 631 | 9 035 |
| Ferro-aluminium | 1 | 48 | 24 | ... | ... |
| Ferro-chrome | 1 020 | 978 | 1 504 | 1 161 | 1 203 |
| Ferro-manganese | 6 161 | 7 567 | 7 406 | 7 884 | 9 033 |
| Ferro-silico-manganese | 4 655 | 5 156 | 4 444 | 6 481 | 4 341 |
| Ferro-silicon | 5 952 | 4 291 | 5 417 | 5 194 | 4 630 |
| Other ferro-alloys | 1 511 | 1 198 | 1 070 | 1 203 | 1 602 |
| Silicon metal | 701 | 1 168 | 716 | 694 | 1 135 |
| Ingots, blooms, billets | 44 303 | 16 032 | 17 132 | 20 896 | 38 694 |
| Scrap | 246 179 | 347 211 | 412 584 | 544 911 | 390 607 |

Iron, Steel and Ferro-Alloys

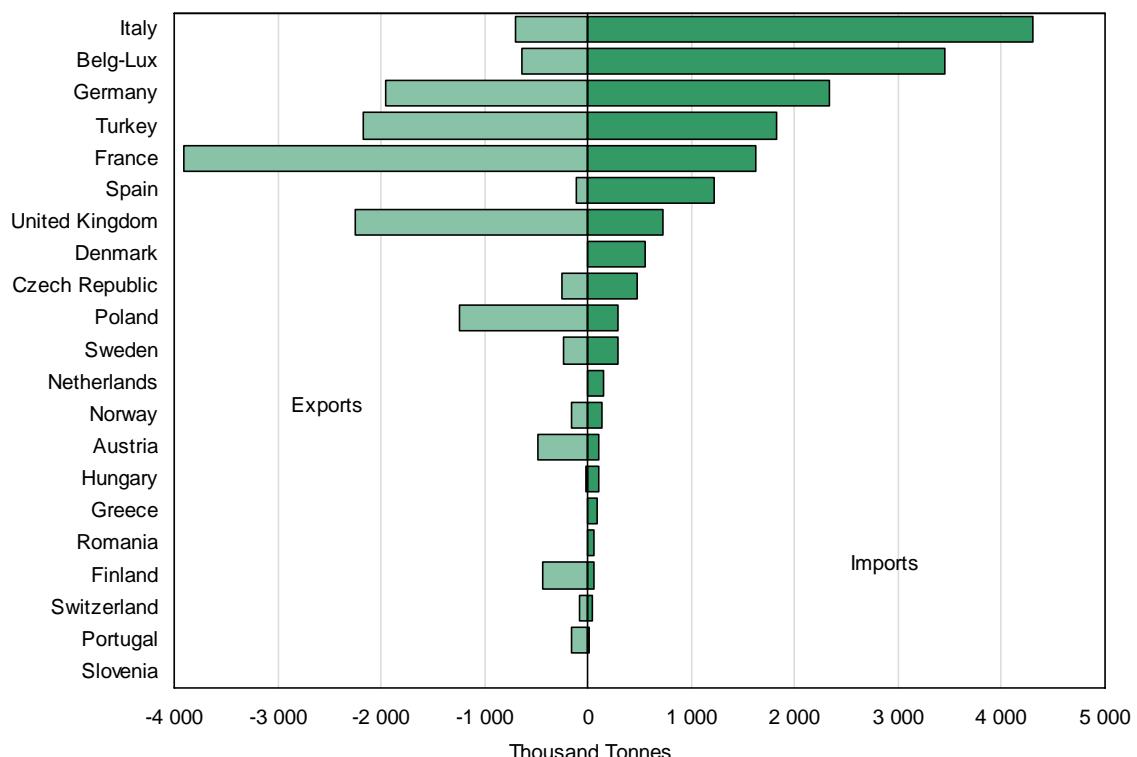
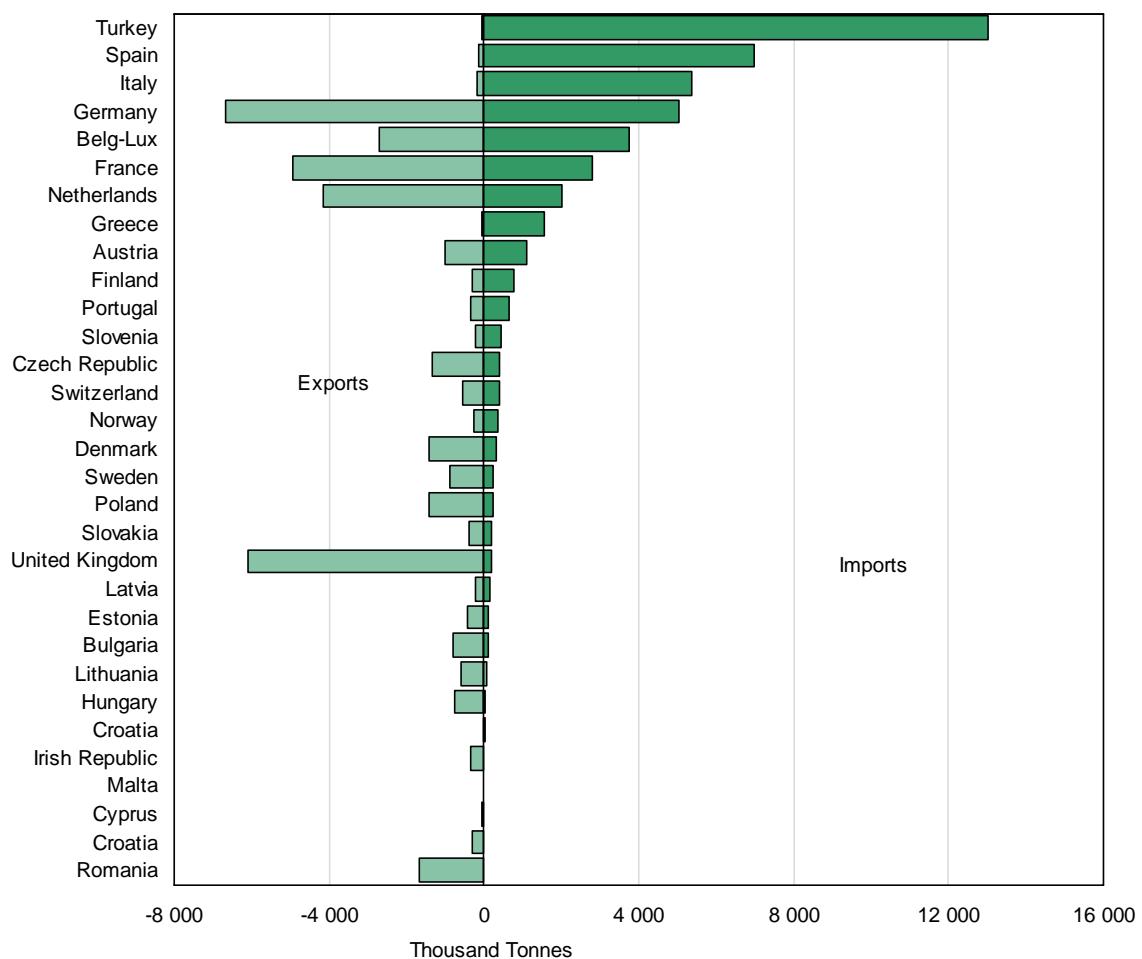
Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------|-----------|-----------|------------|------------|------------|
| Turkey | | | | | |
| Pig iron | 155 350 | 324 368 | 306 901 | 286 589 | 396 658 |
| Sponge & powder | 22 674 | 84 443 | 75 798 | 18 084 | 68 952 |
| Ferro-manganese | 34 409 | 48 178 | 70 866 | 44 406 | 43 631 |
| Ferro-silico-manganese | 78 749 | 157 650 | 178 594 | 189 294 | 159 496 |
| Ferro-molybdenum | 579 | 776 | 816 | 838 | 1 253 |
| Ferro-niobium | 90 | 167 | 189 | 211 | 433 |
| Ferro-silicon | 44 864 | 55 575 | 126 532 | 82 543 | 57 501 |
| Other ferro-alloys | 9 372 | 10 644 | 11 063 | 13 926 | 18 373 |
| Silicon metal | 1 468 | 2 730 | 7 968 | 4 649 | 4 794 |
| Ingots, blooms, billets | 1 039 166 | 896 891 | 1 618 384 | 1 531 529 | 1 816 973 |
| Scrap | 4 993 240 | 9 749 780 | 12 818 350 | 12 892 546 | 13 010 728 |
| United Kingdom | | | | | |
| Pig iron | 159 725 | 124 682 | 116 724 | 105 007 | 102 531 |
| Sponge & powder | 23 551 | 23 673 | 21 503 | 21 059 | 21 914 |
| Ferro-chrome | 98 994 | 112 898 | 68 405 | 112 234 | 63 478 |
| Ferro-silico-chrome | 5 136 | 2 309 | 63 | — | 728 |
| Ferro-silico-magnesium | 5 318 | 5 820 | 5 663 | 4 969 | 5 448 |
| Ferro-manganese | 73 507 | 86 681 | 76 686 | 91 533 | 79 045 |
| Ferro-silico-manganese | 53 747 | 64 565 | 53 421 | 63 633 | 57 136 |
| Ferro-molybdenum | 351 | 338 | 434 | 836 | 861 |
| Ferro-nickel | 7 166 | 11 010 | 16 437 | 14 628 | 11 325 |
| Ferro-niobium | 1 261 | 1 029 | 1 148 | 1 236 | 1 175 |
| Ferro-phosphorus | 2 163 | 1 503 | 2 124 | 1 687 | 3 261 |
| Ferro-silicon | 72 663 | 76 046 | 75 469 | 71 973 | 58 225 |
| Ferro-titanium & Fe-Si-Ti | 2 465 | 2 729 | 2 042 | 2 457 | 1 883 |
| Ferro-tungsten & Fe-Si-W | 96 | 32 | 60 | 10 | 36 |
| Ferro-vanadium | 727 | 748 | 1 071 | 1 262 | 609 |
| Other ferro-alloys | 4 073 | 4 258 | 2 195 | 2 275 | 2 427 |
| Silicon metal | 86 026 | 80 766 | 100 472 | 100 233 | 77 103 |
| Ingots, blooms, billets | 388 350 | 1 453 884 | 540 537 | 758 615 | 722 452 |
| Scrap | 178 923 | 113 107 | 139 089 | 225 483 | 180 261 |

Note(s) :-

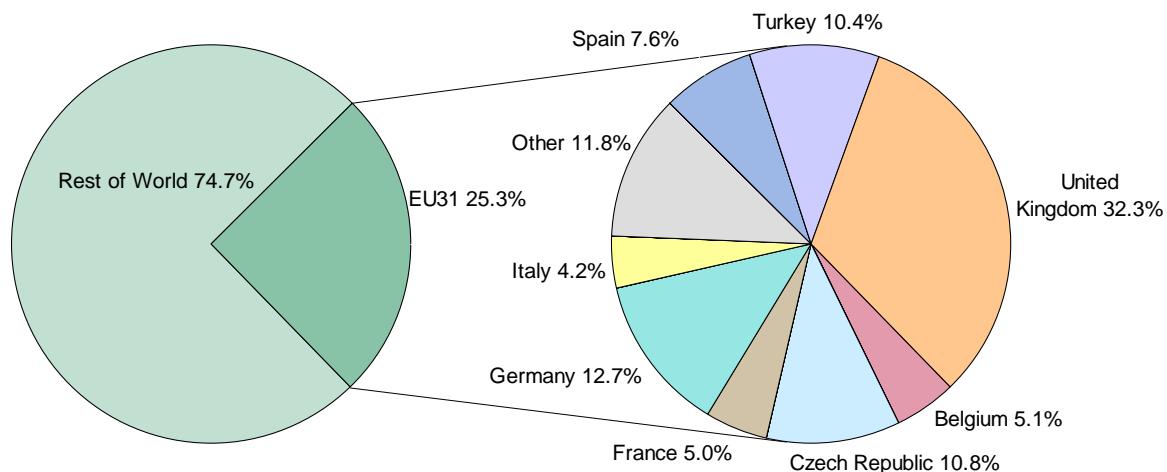
(1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

Iron and steel ingots, blooms and billets – EU31 trade in 2005**Iron and steel scrap – EU31 trade in 2005**

Kaolin

- Kaolin is the market name for the clay mineral kaolinite. Unlike ceramic and refractory clays, kaolinite is usually processed to eliminate impurities and to tailor the product for end-use. Kaolin has many industrial applications; the main ones are in the manufacture of paper, ceramics, rubber, plastics, paint, cement and glass-fibres. Paper manufacture is the largest end-use of kaolin, up to 30% of printing paper can be kaolin.
- Kaolin production is fairly stable in the EU31 countries, which in 2005 produced 25% of world kaolin. The UK is the largest producer and exporter in the EU31 and third biggest in the world. Because of its paper industry, the largest EU31 consumer is Finland.
- Kaolin is traded in several different forms; in 2005 refined, ex-works ranged from £44/tonne–£110/tonne.

EU31 Production of kaolin 2005



Production of kaolin

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 20 047 | 21 212 | 15 034 | 16 345 | 55 508 |
| Belgium | *300 000 | *300 000 | *300 000 | *300 000 | *300 000 |
| Bulgaria | *140 000 | *150 000 | *120 000 | *190 000 | *200 000 |
| Czech Republic (c) | 561 600 | 562 300 | 582 100 | 639 100 | 639 300 |
| France | 377 000 | 339 000 | 335 000 | 316 000 | 293 000 |
| Germany (b) | 696 832 | 740 821 | 738 123 | *740 000 | *750 000 |
| Greece | 60 075 | 57 885 | 59 680 | 53 438 | 49 912 |
| Hungary | ... | ... | ... | 3 300 | 1 300 |
| Italy | 295 263 | 174 990 | 224 755 | 246 608 | ... |
| Poland (d) | 103 220 | 89 372 | 106 761 | 130 596 | 159 207 |
| Portugal | 148 706 | 147 448 | 169 669 | *170 000 | ... |
| Romania | 21 867 | 22 517 | 25 741 | 22 338 | 26 772 |
| Slovakia | 34 730 | 24 600 | 24 800 | 89 424 | 34 830 |
| Spain (d) | *400 000 | 419 483 | 427 193 | 437 990 | 450 000 |
| Turkey | 505 773 | 372 344 | 370 455 | 536 008 | 615 271 |
| United Kingdom (a) (e) | 2 204 156 | 2 162 815 | 2 097 137 | 1 944 955 | 1 910 874 |
| EU31 Total | 5 900 000 | 5 600 000 | 5 600 000 | 5 800 000 | 5 900 000 |

Note(s):-

(1) In addition to the countries listed Denmark is believed to produce kaolin

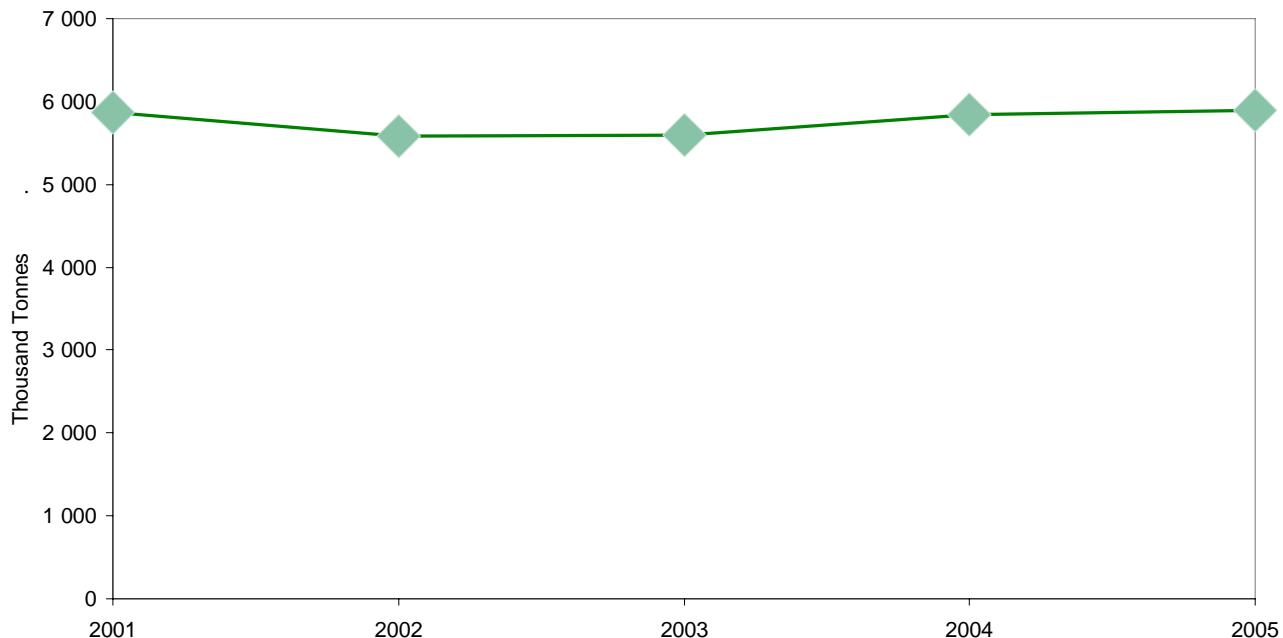
(a) Sales

(b) Washed and dried

(c) Beneficiated

(d) Washed

(e) Dry weight

EU31 Production of kaolin 2001 - 05**Exports of kaolin**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 2 998 | 3 105 | 1 870 | 2 277 | 3 019 |
| Belgium-Luxembourg | 357 363 | 332 718 | 539 940 | 664 743 | 777 451 |
| Bulgaria | 115 257 | 113 538 | 124 396 | 114 399 | 124 899 |
| Croatia | 2 620 | 5 319 | 4 362 | 351 | 15 |
| Czech Republic | 455 089 | 443 674 | 441 545 | 483 636 | 268 850 |
| Denmark | 1 050 | 688 | 583 | 461 | 637 |
| Finland | 7 561 | 10 698 | 10 032 | 8 111 | 7 378 |
| France | 290 332 | 325 323 | 1 613 484 | 484 554 | 421 927 |
| Germany | 350 804 | 333 927 | 359 926 | 369 141 | 301 870 |
| Greece | 723 | 884 | 976 | 131 | 129 |
| Hungary | 3 121 | 3 539 | 2 388 | 7 180 | 6 252 |
| Italy | 58 835 | 47 652 | 37 357 | 29 995 | 40 800 |
| Netherlands | 282 035 | 234 669 | 335 299 | 307 337 | 441 248 |
| Poland | 6 321 | 3 538 | 10 408 | 9 941 | 6 194 |
| Portugal | 11 944 | 15 318 | 10 131 | 11 383 | 31 484 |
| Spain | 155 446 | 159 759 | 172 414 | 154 667 | 192 735 |
| Sweden | 7 199 | 8 200 | 8 791 | 15 544 | 18 473 |
| Turkey | 227 159 | 190 404 | 299 843 | 267 817 | 146 562 |
| United Kingdom (a) | 1 928 230 | 1 899 220 | 1 862 437 | 1 728 161 | 1 698 747 |

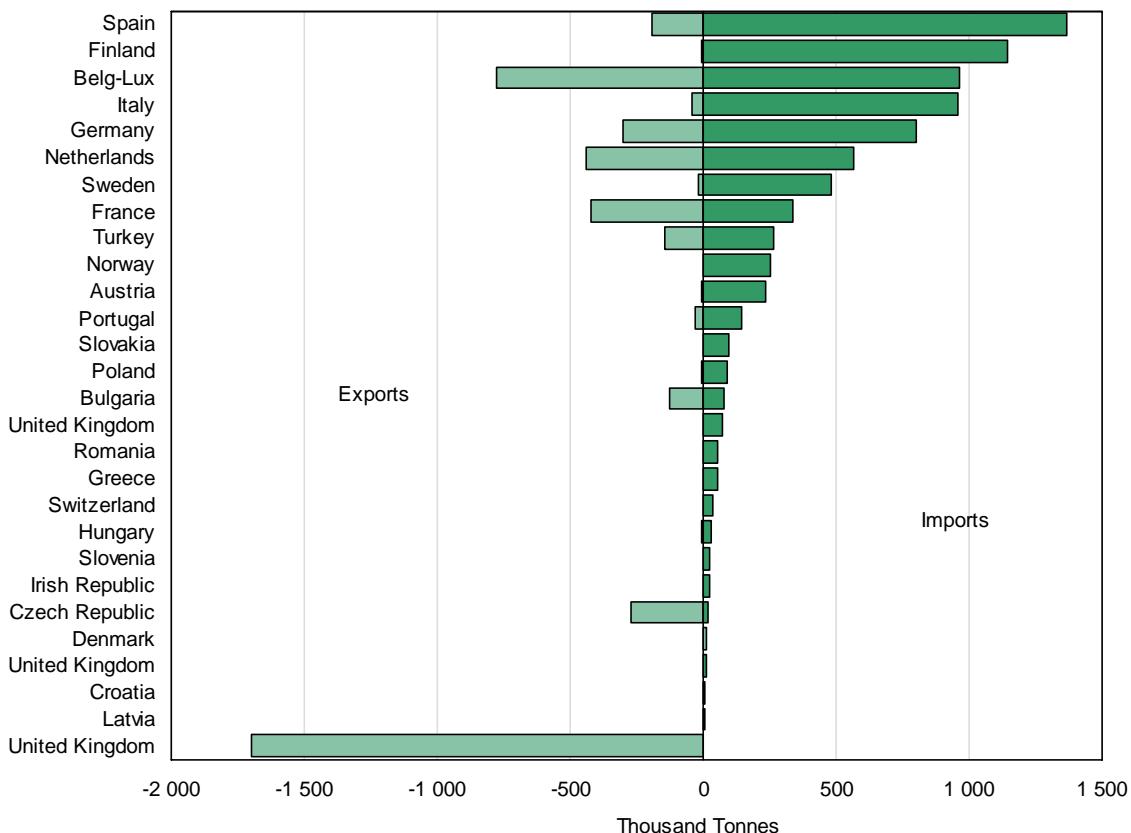
Note(s):-

(a) Dry weight

Imports of kaolin

tonnes

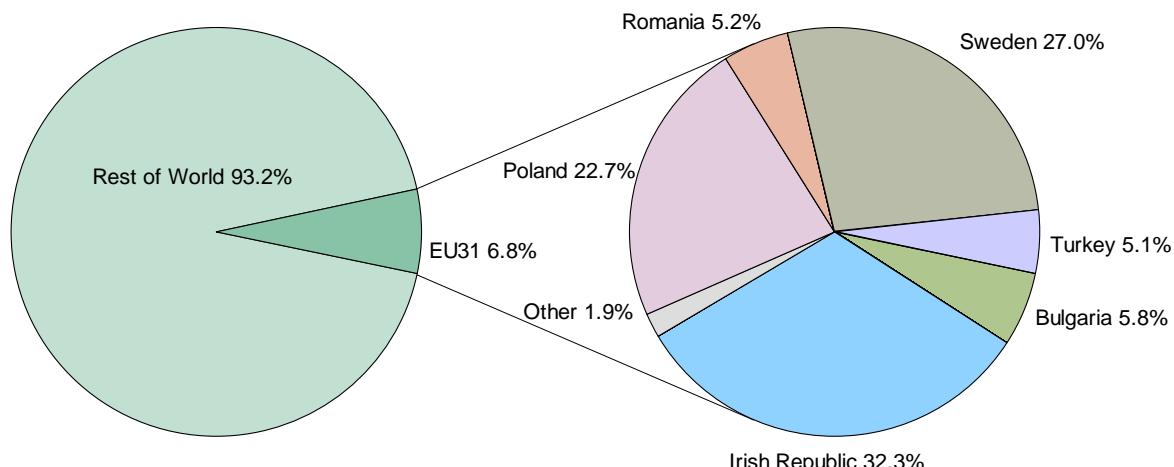
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 254 030 | 249 132 | 228 674 | 249 353 | 234 906 |
| Belgium-Luxembourg | 467 193 | 607 908 | 890 277 | 1 023 999 | 962 536 |
| Bulgaria | 26 805 | 28 486 | 36 360 | 75 425 | 76 231 |
| Croatia | 6 357 | 6 046 | 6 303 | 6 472 | 7 941 |
| Cyprus | 369 | 380 | 487 | 299 | 154 |
| Czech Republic | 19 514 | 12 791 | 15 466 | 14 034 | 16 895 |
| Denmark | 19 369 | 34 441 | 20 987 | 13 056 | 14 117 |
| Finland | 1 355 460 | 1 207 343 | 1 305 240 | 1 301 806 | 1 144 335 |
| France | 380 166 | 386 197 | 325 358 | 349 353 | 338 848 |
| Germany | 749 260 | 750 621 | 771 902 | 774 307 | 803 001 |
| Greece | 23 933 | 43 586 | 52 833 | 56 380 | 54 293 |
| Hungary | 34 000 | 30 130 | 28 472 | 23 417 | 33 075 |
| Irish Republic | 11 505 | 20 919 | 19 186 | 22 213 | 22 764 |
| Italy | 1 020 131 | 952 526 | 947 116 | 939 832 | 956 948 |
| Latvia | 3 386 | 4 933 | 4 962 | 5 096 | 5 016 |
| Lithuania | ... | ... | ... | ... | 802 |
| Netherlands | 455 737 | 444 622 | 560 878 | 646 638 | 564 518 |
| Norway | 251 950 | 234 592 | 241 975 | 237 725 | 250 879 |
| Poland | 66 759 | 77 155 | 81 181 | 89 139 | 90 931 |
| Portugal | 151 525 | 125 201 | 135 681 | 124 508 | 143 943 |
| Romania | 71 015 | 71 628 | 82 981 | 71 987 | 55 653 |
| Slovakia | 93 735 | 111 841 | 88 513 | 76 440 | 94 705 |
| Slovenia | 25 583 | 27 112 | 29 449 | 28 782 | 25 928 |
| Spain | 796 040 | 792 920 | 999 504 | 1 209 303 | 1 366 226 |
| Sweden | 422 071 | 437 528 | 467 111 | 452 215 | 480 358 |
| Switzerland | 37 383 | 37 298 | 45 012 | 41 350 | 37 368 |
| Turkey | 117 550 | 149 559 | 197 684 | 218 838 | 265 530 |
| United Kingdom | 102 839 | 58 993 | 72 719 | 126 501 | 84 750 |

Kaolin – EU31 trade in 2005

Lead

- Lead is a very soft, highly malleable, ductile metallic element with low electrical conductivity. It is also very dense and strongly resistant to corrosion, although it tarnishes rapidly in air. The main use is in lead-acid batteries, although lead is also widely used in architecture, plumbing, ordnance, solder, radiation shielding and insecticides.
- China was the largest producer of lead in 2005 (31%), although many countries refine this metal. In the EU31 the largest mine producer of lead was the Republic of Ireland (32%) and the largest producers of refined lead, based on imported materials and recycling, were Germany (22%) and the UK (19%).
- Despite environmental and health concerns consumption of lead has increased recently, resulting in a minor supply deficit. The price of lead increased gradually during 2005 with LME prices ranging from £805 -£1020/tonne.

EU31 Mine production of lead 2005

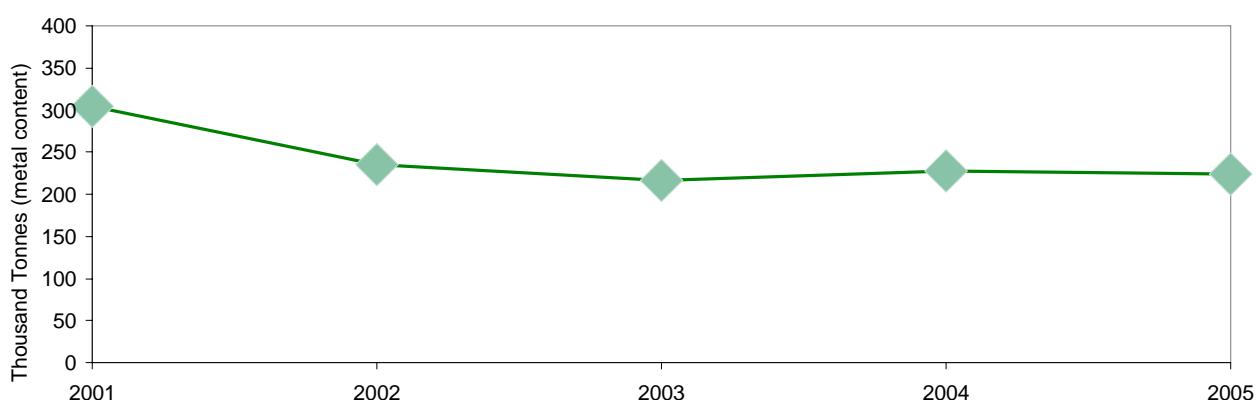


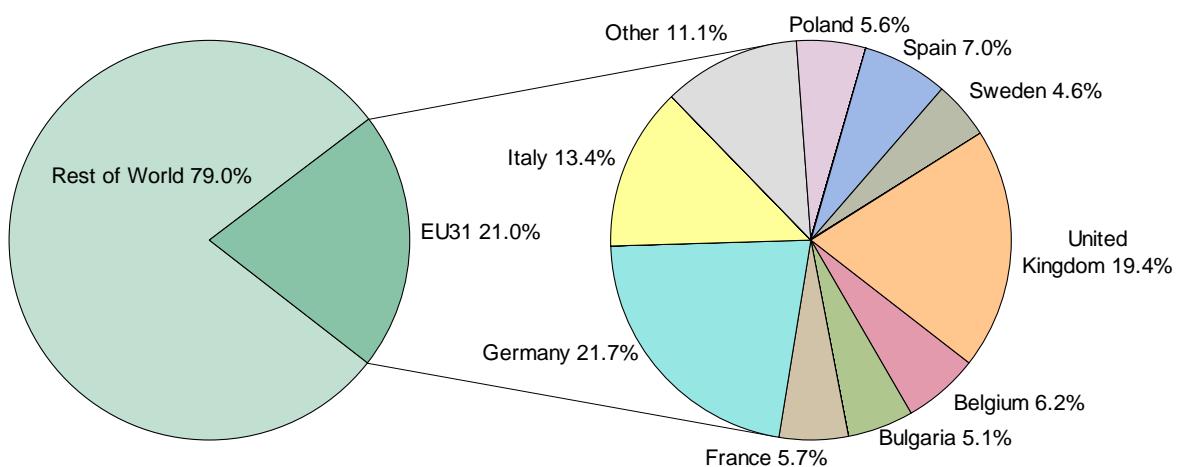
Mine production of lead

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Bulgaria | 18 500 | 19 800 | 19 950 | 18 970 | 13 000 |
| Greece | 26 588 | 29 300 | 2 000 | — | 3 000 |
| Irish Republic | 44 500 | 41 700 | 50 300 | 63 800 | 72 200 |
| Italy | 2 700 | 3 200 | 2 700 | 800 | *800 |
| Poland | 52 600 | 56 600 | 54 700 | 52 700 | 50 900 |
| Romania | 19 676 | 17 500 | 15 747 | 18 297 | 11 610 |
| Spain | 35 573 | 6 171 | 1 765 | — | — |
| Sweden | 85 975 | 42 954 | 50 962 | 54 347 | 60 445 |
| Turkey | 17 884 | 17 277 | 17 483 | 18 792 | 11 341 |
| United Kingdom | *800 | *700 | *700 | *500 | *500 |
| EU31 Total | 304 800 | 235 200 | 216 300 | 228 210 | 223 800 |

EU31 Mine production of lead 2001 - 05



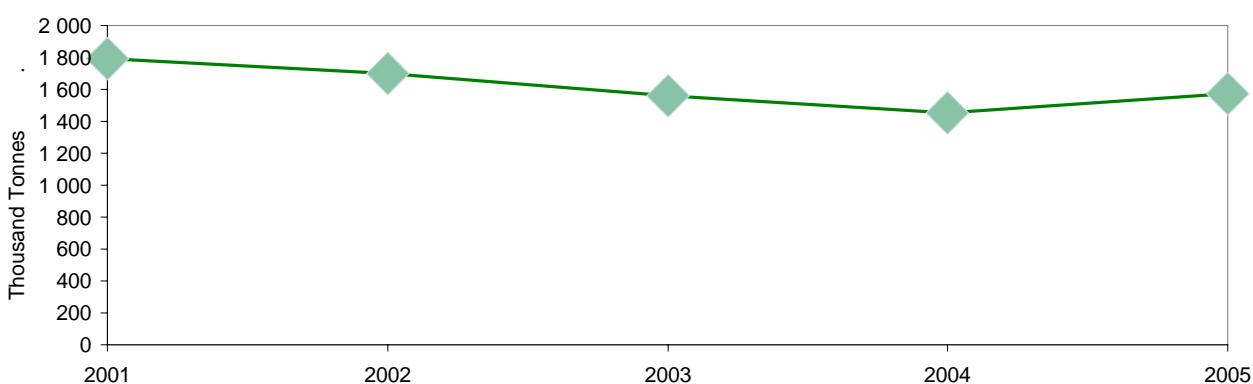
EU31 Production of refined lead 2005**Production of refined lead**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 23 666 | *23 000 | *20 000 | *26 000 | *24 000 |
| Belgium | 100 000 | 88 000 | 65 000 | 62 000 | 97 200 |
| Bulgaria | 83 000 | 67 500 | 74 000 | 69 000 | 80 800 |
| Czech Republic | 30 500 | *30 500 | *30 000 | *30 000 | 26 000 |
| Estonia | — | — | — | 3 000 | *7 000 |
| France | 231 400 | 203 400 | 91 000 | 89 000 | *90 000 |
| Germany | 373 600 | 379 905 | 356 900 | 359 200 | 341 700 |
| Greece | *6 000 | *6 000 | *6 000 | *6 000 | *6 000 |
| Irish Republic | 9 800 | 6 600 | 7 800 | 19 600 | 22 500 |
| Italy | 226 500 | 196 000 | 214 100 | 201 600 | 211 000 |
| Netherlands | 20 000 | 18 000 | 17 000 | 17 000 | 17 000 |
| Poland | 66 000 | 65 800 | 74 300 | 73 900 | 87 800 |
| Portugal | *6 000 | *6 000 | *6 000 | *6 000 | *6 000 |
| Romania | 22 000 | 23 000 | 28 000 | 32 590 | 32 903 |
| Slovenia | 15 400 | 15 400 | 15 000 | *15 000 | 15 000 |
| Spain | 121 600 | 115 552 | 99 100 | 105 600 | 110 000 |
| Sweden | 75 608 | 63 451 | 73 340 | 73 548 | 72 600 |
| Switzerland | 10 250 | 8 700 | 9 600 | 9 300 | 9 600 |
| Turkey | *9 000 | *9 000 | *9 000 | *9 000 | *9 000 |
| United Kingdom | 366 305 | 374 646 | 364 574 | 245 938 | 305 350 |
| EU31 Total | 1 797 000 | 1 700 000 | 1 561 000 | 1 453 000 | 1 571 000 |

Note(s):-

(1) Figures relate to both primary and secondary refined lead and include the lead content of antimonial lead. Metal recovered from materials by remelting alone is excluded

EU31 Production of refined lead 2001 - 05

Exports of lead

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------|---------|---------|------------|---------|
| Austria | | | | | |
| Unwrought | 6 375 | 7 831 | 8 988 | 14 504 | 10 746 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 96 613 | 104 187 | 84 545 | 109 580 | 96 610 |
| Unwrought | 96 885 | 84 303 | 104 827 | 93 316 | 110 372 |
| Scrap | 9 465 | 6 981 | 6 307 | 12 736 | 9 142 |
| Bulgaria | | | | | |
| Unwrought | 68 749 | 58 789 | 61 799 | 54 686 | 69 825 |
| Croatia | | | | | |
| Scrap | 809 | 749 | 750 | 853 | 794 |
| Cyprus | | | | | |
| Scrap | 1 965 | 1 874 | 2 073 | 1 711 | 1 212 |
| Czech Republic | | | | | |
| Unwrought | 6 786 | 5 724 | 7 112 | 7 230 | 8 665 |
| Scrap | 3 750 | 3 346 | 2 926 | 3 059 | 4 948 |
| Denmark | | | | | |
| Unwrought | 3 090 | 3 048 | 3 011 | 1 930 | 1 312 |
| Scrap | 1 864 | 1 338 | 1 885 | 1 805 | 3 067 |
| Estonia | | | | | |
| Unwrought | 58 | ... | 412 | 3 846 | 7 774 |
| Scrap | 459 | 437 | 520 | 1 414 | 153 |
| Finland | | | | | |
| Scrap | 811 | 338 | 159 | 884 | 3 589 |
| France | | | | | |
| Unwrought | 62 680 | 60 095 | 12 868 | 6 182 | 6 920 |
| Scrap | 21 979 | 23 473 | 27 789 | 27 003 | 24 683 |
| Germany | | | | | |
| Ores & concentrates | 8 868 | 22 024 | 31 512 | 3 423 | 102 |
| Unwrought | 160 412 | 169 142 | 129 550 | 120 361 | 122 120 |
| Scrap | 12 669 | 13 646 | 15 468 | 12 412 | 11 064 |
| Greece | | | | | |
| Unwrought | 6 127 | 1 712 | 107 | ... | 4 017 |
| Hungary | | | | | |
| Scrap | 1 944 | 1 421 | 1 237 | 2 377 | 2 987 |
| Irish Republic | | | | | |
| Ores & concentrates | 58 150 | 21 069 | 56 141 | 84 115 | 92 813 |
| Italy | | | | | |
| Unwrought | 8 646 | 20 987 | 26 711 | 28 295 | 18 244 |
| Scrap | 2 716 | 4 792 | 5 652 | 1 262 | 2 477 |
| Lithuania | | | | | |
| Scrap | 1 129 | 931 | 3 239 | 6 613 | 7 848 |
| Netherlands | | | | | |
| Unwrought | 1 256 | 1 263 | 23 942 | 34 426 | 24 382 |
| Scrap | 26 188 | 5 670 | 8 732 | 12 395 | 11 950 |
| Norway | | | | | |
| Scrap | 15 693 | 5 188 | 987 | 601 | 1 013 |
| Poland | | | | | |
| Ores & concentrates | 73 989 | 77 493 | 86 395 | 94 126 | 92 226 |
| Unwrought | 44 691 | 38 602 | 42 518 | 39 287 | 44 008 |
| Scrap | 1 921 | 2 107 | 2 408 | 963 | 1 652 |
| Portugal | | | | | |
| Unwrought | 567 | 3 769 | 2 367 | 1 988 | 1 269 |
| Scrap | 3 506 | 2 733 | 3 502 | 3 452 | 4 127 |
| Romania | | | | | |
| Ores & concentrates | 15 585 | 36 089 | 30 390 | 25 092 | 25 012 |
| Unwrought | 16 142 | 16 544 | 23 388 | 20 894 | 22 120 |
| Scrap | 1 483 | 1 518 | 964 | 1 689 | 3 295 |
| Slovakia | | | | | |
| Unwrought | 2 873 | 984 | 3 124 | (b) *2 000 | 1 662 |
| Slovenia | | | | | |
| Unwrought | 6 587 | 3 757 | 5 136 | 4 701 | 5 818 |
| Spain | | | | | |
| Ores & concentrates | 97 594 | 13 | 5 057 | 6 057 | 2 |
| Unwrought | 6 098 | 9 458 | 6 219 | 8 301 | 9 805 |
| Scrap | 3 684 | 6 797 | 7 028 | 6 399 | 9 128 |

Lead

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|---------|---------|--------|--------|--------|
| Sweden | | | | | |
| Ores & concentrates | 118 723 | 63 204 | 59 340 | 60 105 | 62 155 |
| Unwrought | 54 414 | 61 079 | 71 217 | 68 215 | 70 042 |
| Scrap | 545 | 424 | 237 | 554 | 307 |
| Switzerland | | | | | |
| Unwrought | 4 074 | 7 160 | 7 086 | 5 407 | 4 657 |
| Scrap | 4 479 | 2 565 | 2 267 | 1 320 | 2 932 |
| Turkey | | | | | |
| Ores & concentrates (a) | 11 172 | 42 390 | 18 619 | 27 179 | 24 590 |
| Unwrought | 4 985 | 4 728 | 1 484 | 6 190 | 2 875 |
| United Kingdom | | | | | |
| Unwrought | 93 552 | 101 832 | 61 682 | 34 859 | 52 593 |
| Unwrought alloys | 42 308 | 57 249 | 44 091 | 31 148 | 38 806 |
| Scrap | 10 700 | 17 116 | 28 569 | 32 934 | 27 248 |

Note(s):-

- (1) In this table the term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars etc.
- (2) The term 'unwrought' as used here includes alloys unless these are separately specified

- (a) Complex lead-zinc ore
- (b) BGS estimates, based on known imports into certain countries

Imports of lead

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Unwrought | 46 677 | 44 878 | 37 927 | 39 533 | 23 062 |
| Scrap | 1 921 | 1 844 | 2 672 | 2 192 | 1 068 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 101 613 | 115 471 | 80 203 | 117 597 | 134 300 |
| Unwrought | 30 894 | 27 490 | 20 874 | 27 042 | 18 807 |
| Scrap | 38 002 | 25 527 | 28 028 | 26 904 | 26 699 |
| Bulgaria | | | | | |
| Ores & concentrates | 83 051 | 52 368 | 64 751 | 74 163 | 83 398 |
| Unwrought | 2 252 | 2 218 | 1 759 | 5 558 | 10 723 |
| Scrap | 1 714 | 2 800 | 816 | 441 | 1 227 |
| Croatia | | | | | |
| Unwrought | 841 | 1 635 | 988 | 1 460 | 1 492 |
| Cyprus | | | | | |
| Unwrought | 2 359 | 2 367 | 918 | 317 | 172 |
| Czech Republic | | | | | |
| Unwrought | 58 777 | 56 941 | 55 699 | 73 472 | 418 804 |
| Denmark | | | | | |
| Unwrought | 3 447 | 2 073 | 816 | 2 072 | 2 135 |
| Scrap | 1 535 | 2 489 | 2 237 | 2 366 | 2 288 |
| Finland | | | | | |
| Unwrought | 1 825 | 3 032 | 2 753 | 2 582 | 2 854 |
| Scrap | 287 | 137 | 139 | 41 | 29 |
| France | | | | | |
| Ores & concentrates | 182 072 | 146 270 | ... | ... | 253 |
| Unwrought | 80 869 | 80 812 | 103 439 | 91 979 | 109 426 |
| Scrap | 40 099 | 44 079 | 30 508 | 34 513 | 33 818 |
| Germany | | | | | |
| Ores & concentrates | 267 848 | 228 055 | 193 156 | 202 309 | 171 533 |
| Unwrought | 189 697 | 158 048 | 159 860 | 112 975 | 108 533 |
| Scrap | 19 056 | 19 472 | 9 075 | 11 757 | 15 419 |
| Greece | | | | | |
| Unwrought | 5 970 | 5 309 | 4 633 | 28 460 | 5 112 |
| Scrap | 882 | 3 349 | 5 496 | 1 284 | 85 |
| Hungary | | | | | |
| Unwrought | 10 117 | 6 552 | 7 148 | 4 545 | 5 028 |

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------------|---------|---------|---------|---------|---------|
| Irish Republic | | | | | |
| Unwrought | 24 432 | 35 376 | 28 438 | 26 896 | 30 999 |
| Scrap | 9 163 | 9 985 | 7 798 | 18 290 | 28 530 |
| Italy | | | | | |
| Ores & concentrates | 109 714 | 98 430 | 86 985 | 99 015 | 107 685 |
| Unwrought | 90 537 | 111 214 | 88 333 | 114 546 | 72 181 |
| Scrap | 6 346 | 4 737 | 3 669 | 3 877 | 3 333 |
| Netherlands | | | | | |
| Unwrought | 9 316 | 17 070 | 66 405 | 83 391 | 36 051 |
| Scrap | 8 427 | 8 824 | 8 034 | 7 818 | 9 700 |
| Norway | | | | | |
| Unwrought | 3 213 | 3 971 | 2 024 | 2 970 | 4 882 |
| Poland | | | | | |
| Unwrought | 33 400 | 43 821 | 47 030 | 50 189 | 53 095 |
| Portugal | | | | | |
| Unwrought | 20 604 | 16 952 | 15 624 | 18 885 | 21 198 |
| Romania | | | | | |
| Ores & concentrates | 30 678 | 32 043 | 14 899 | 26 920 | 31 085 |
| Unwrought | 3 767 | 2 811 | 1 111 | 1 667 | 1 620 |
| Slovenia | | | | | |
| Unwrought | 10 738 | 12 629 | 13 604 | 12 854 | 10 262 |
| Scrap | 215 | 783 | 538 | 1 223 | 1 382 |
| Spain | | | | | |
| Unwrought | 117 501 | 178 929 | 129 925 | 154 828 | 174 618 |
| Scrap | 13 311 | 19 914 | 21 943 | 27 866 | 30 499 |
| Sweden | | | | | |
| Unwrought | 6 777 | 5 023 | 4 190 | 6 088 | 6 098 |
| Scrap | 2 548 | 1 970 | 2 463 | 4 062 | 3 538 |
| Switzerland | | | | | |
| Unwrought | 7 098 | 5 943 | 6 047 | 7 831 | 8 067 |
| Turkey | | | | | |
| Unwrought | 41 970 | 64 513 | 71 665 | 71 606 | 71 680 |
| United Kingdom | | | | | |
| Ores & concentrates (a) | *33 000 | *30 000 | *5 000 | — | — |
| Unwrought , base bullion (b) | 184 518 | 184 060 | 168 228 | 127 970 | 173 910 |
| Unwrought, other | 33 202 | 32 468 | 28 132 | 51 382 | 31 347 |
| Scrap | 15 633 | 4 946 | 6 043 | 6 278 | 3 898 |

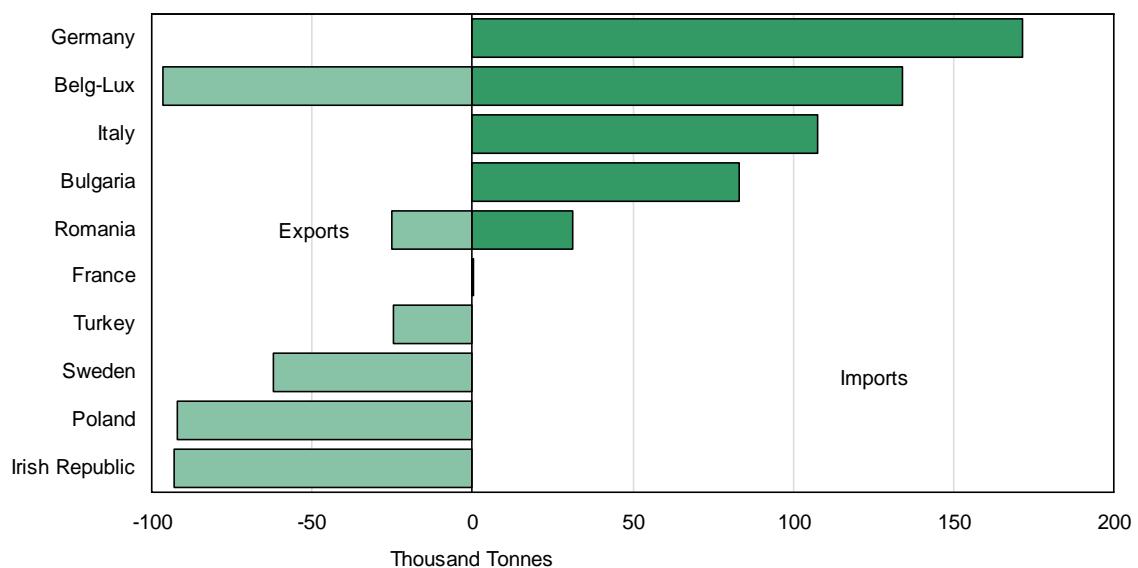
Note(s) :-

- (1) In this table the term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars etc.
- (2) The term 'unwrought' as used here includes alloys unless these are separately specified

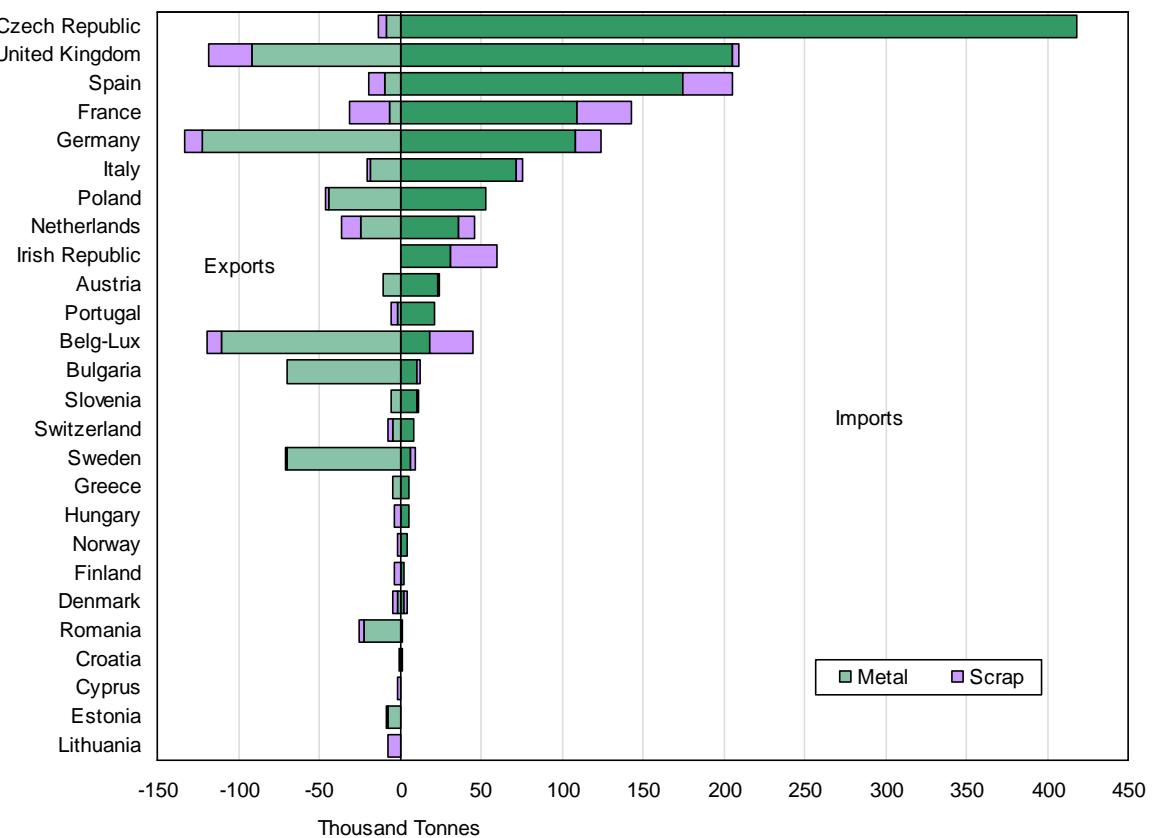
(a) Pb content

(b) Includes a substantial precious metal content, mainly silver

Lead ore – EU31 trade in 2005



Lead – EU31 trade in 2005



Lithium minerals

- Lithium is a very light metallic element. It is mainly used as lithium compounds that act as fluxes in the ceramics and glass industries, and in lubricants. The metal is an important alloying agent in primary aluminium. Lithium is increasingly being used in rechargeable batteries.
- Lithium is produced in only a few countries of which Australia was the largest lithium mineral producer in 2005 (approximately 40% of world production). Chile was the largest producer by lithium content (52% of world production). In the EU31 Portugal is the only country producing lithium.
- The lithium minerals spodumene and petalite, with lithium carbonate, are the usual traded forms. Prices were stable throughout 2005 ranging between \$165–\$350/tonne for mineral concentrates and \$2–\$2.5/lb for carbonate.

Production of lithium minerals

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|--------|--------|--------|--------|------|
| Portugal Lepidolite | 11 571 | 16 325 | 24 606 | 28 696 | ... |
| EU31 Total (Li content) | 197 | 278 | 418 | 488 | ... |

Exports of lithium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|--------|-------|
| Belgium-Luxembourg | | | | | |
| Oxides | 470 | 548 | 982 | 1 837 | 1 545 |
| Carbonate | 3 392 | 3 935 | 4 000 | 10 053 | 4 999 |
| France | | | | | |
| Carbonate | 3 130 | 2 955 | 2 382 | 1 166 | 462 |
| Germany | | | | | |
| Oxides | 647 | 532 | 649 | 625 | ... |
| Carbonate | 1 771 | 1 768 | 2 484 | 2 660 | 2 991 |
| Italy | | | | | |
| Oxides | 8 | 58 | 47 | 11 | 6 |
| Carbonate | 87 | 138 | 162 | 206 | 269 |
| Netherlands | | | | | |
| Oxides | 590 | 203 | 190 | 187 | 115 |
| Carbonate | 205 | 104 | 89 | 199 | 224 |
| Slovenia | | | | | |
| Carbonate | 91 | 68 | 64 | 89 | 96 |
| Spain | | | | | |
| Carbonate | 1 617 | 639 | 373 | 3 157 | 1 123 |
| Switzerland | | | | | |
| Oxides | 96 | 53 | 78 | 80 | 78 |
| United Kingdom | | | | | |
| Oxides | 95 | 186 | 169 | 285 | 125 |
| Carbonate | 214 | 147 | 193 | 160 | 203 |

Imports of lithium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|------------|-------|
| Austria | | | | | |
| Carbonate | 114 | 113 | 118 | 115 | 182 |
| Belgium-Luxembourg | | | | | |
| Oxides | 784 | 1 159 | 1 197 | (a) *2 000 | 2 014 |
| Carbonate | 5 136 | 5 879 | 5 086 | 6 108 | 6 205 |
| France | | | | | |
| Oxides | 420 | 329 | 347 | 407 | 482 |
| Carbonate | 1 133 | 1 612 | 1 381 | 1 484 | 1 392 |
| Germany | | | | | |
| Oxides | 5 100 | 3 198 | 4 405 | 3 699 | 4 209 |
| Carbonate | 4 187 | 4 825 | 6 018 | 7 189 | 8 101 |
| Italy | | | | | |
| Oxides | 168 | 209 | 237 | 148 | 223 |
| Carbonate | 1 659 | 1 581 | 1 686 | 1 505 | 2 263 |
| Netherlands | | | | | |
| Oxides | 539 | 217 | 237 | 270 | 178 |
| Carbonate | 897 | 854 | 956 | 1 081 | 1 171 |
| Poland | | | | | |
| Oxides | 39 | 69 | 74 | 132 | 136 |
| Carbonate | 46 | 55 | 56 | 117 | 128 |
| Slovenia | | | | | |
| Oxides | 116 | 80 | 88 | 127 | 116 |
| Spain | | | | | |
| Oxides | 347 | 357 | 436 | 329 | 480 |
| Carbonate | 713 | 1 046 | 983 | 759 | 1 553 |
| Sweden | | | | | |
| Oxides | 130 | 155 | 113 | 162 | 176 |
| Carbonate | 183 | 179 | 186 | 208 | 259 |
| Switzerland | | | | | |
| Oxides | 91 | 97 | 89 | 89 | 81 |
| Turkey | | | | | |
| Oxides | 70 | 136 | 120 | 179 | 183 |
| Carbonate | 134 | 157 | 278 | 417 | 433 |
| United Kingdom | | | | | |
| Oxides | 374 | 409 | 554 | 498 | 446 |
| Carbonate | 499 | 626 | 687 | 490 | 657 |

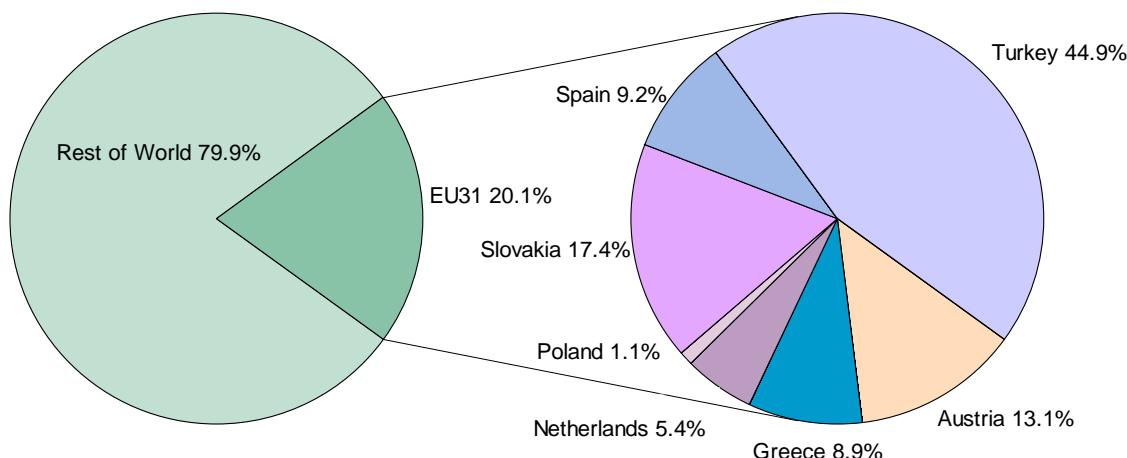
Note(s) :-

(a) BGS estimates, based on known exports into certain countries

Magnesite

- Magnesite is the commonly used name for magnesium carbonate rock. Magnesite has excellent thermal resistance and is most commonly used as refractory bricks in furnaces. It is also used in fertilisers.
- Economic deposits of magnesite are rare. Only 22 countries produced magnesite in 2005, of which China was the largest (approximately 59% of world production). The largest EU31 producer was Turkey (45%).
- In 2005 Chinese dead burned, 94–95% MgO, lump, FOB China traded at a minimum of \$175/tonne.

EU31 Production of magnesite 2005



Production of magnesite

tonnes

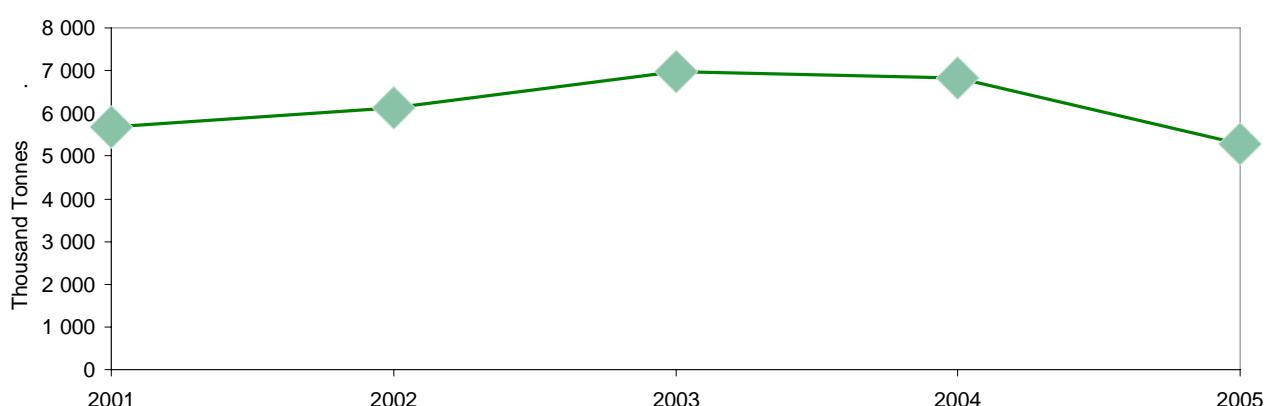
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 680 534 | 728 235 | 766 525 | 715 459 | 693 754 |
| Greece | 442 800 | 553 700 | 542 800 | 552 300 | 471 000 |
| Netherlands (a) | 250 000 | 226 000 | 261 194 | 245 495 | 285 336 |
| Poland | 22 200 | 22 100 | 27 200 | 57 900 | *58 000 |
| Slovakia | 961 212 | 929 630 | 1 640 900 | 965 900 | 920 100 |
| Spain | 598 000 | 637 024 | 517 030 | 567 504 | 485 800 |
| Turkey | 2 738 086 | 3 044 440 | 3 224 278 | 3 732 952 | 2 372 206 |
| EU31 Total | 5 693 000 | 6 141 000 | 6 980 000 | 6 838 000 | 5 286 000 |

Note(s)-

(1) In addition to the countries listed, Bulgaria is believed to produce magnesite

(a) Chloride produced from solution mining

EU31 Production of magnesite 2001 - 05



Magnesite and Magnesia

Exports of magnesite and magnesia

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Magnesite | 82 | 5 489 | 2 401 | 642 | 1 338 |
| Magnesia | 54 021 | 44 729 | 50 263 | 73 037 | 59 283 |
| Belgium-Luxembourg | | | | | |
| Magnesite | 276 | 440 | 7 061 | 512 | 575 |
| Magnesia | 60 846 | 73 182 | 134 268 | 53 755 | 52 665 |
| Czech Republic | 702 | 59 | 1 924 | 3 790 | 6 273 |
| France | | | | | |
| Magnesia | 9 561 | 14 126 | 23 037 | 37 930 | 45 661 |
| Germany | | | | | |
| Magnesite | 233 | 186 | 878 | 218 | 61 |
| Magnesia | 90 154 | 66 559 | 45 840 | 66 422 | 81 021 |
| Greece | | | | | |
| Magnesite | 18 555 | 35 594 | 40 | — | — |
| Magnesia | 128 124 | 94 668 | 65 673 | 130 910 | 140 083 |
| Irish Republic | | | | | |
| Magnesite | 635 | ... | 52 | 6 | ... |
| Magnesia | 22 816 | 65 483 | 65 549 | 69 105 | 82 417 |
| Italy | | | | | |
| Magnesite | 2 521 | 3 170 | 2 141 | 2 868 | 3 489 |
| Magnesia | 57 158 | 52 206 | 17 414 | 9 779 | 12 130 |
| Netherlands | | | | | |
| Magnesite | 2 502 | 2 944 | 12 352 | 8 704 | 1 452 |
| Magnesia | 448 602 | 438 407 | 384 711 | 431 175 | 492 077 |
| Slovakia | 377 755 | 343 123 | 396 477 | 414 176 | 385 949 |
| Spain | | | | | |
| Magnesite | 9 201 | 24 152 | 23 640 | 25 557 | 901 |
| Magnesia | 150 632 | 154 661 | 158 844 | 185 811 | 189 005 |
| Turkey | | | | | |
| Magnesite | 37 723 | 52 446 | 45 534 | 39 670 | 41 353 |
| Magnesia | 190 347 | 213 384 | 196 613 | 230 675 | 198 081 |
| United Kingdom | | | | | |
| Magnesite | 78 | 337 | 34 | 49 | 87 |
| Magnesia | 40 023 | 26 460 | 26 248 | 24 796 | 20 077 |

Note(s):-

(1) The term 'magnesia', as used here, includes dead-burned, sintered and caustic-burned (caustic calcined) material

Imports of magnesite and magnesia

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Magnesite | 2 878 | 13 115 | 12 935 | 4 814 | 17 019 |
| Magnesia | 26 220 | 20 545 | 9 325 | 181 050 | 188 449 |
| Belgium-Luxembourg | | | | | |
| Magnesite | 12 733 | 2 547 | 7 167 | 505 | 767 |
| Magnesia | 90 663 | 73 514 | 151 590 | 65 125 | 84 730 |
| Bulgaria | 5 463 | 6 544 | 5 815 | 6 354 | 8 500 |
| Croatia | 764 | 949 | 1 006 | 1 479 | 1 647 |
| Czech Republic | | | | | |
| Magnesite | 4 362 | 3 516 | 5 528 | 5 973 | 6 860 |
| Magnesia | 33 375 | 32 090 | 34 377 | 42 226 | 43 277 |
| Denmark | | | | | |
| Magnesite | 1 204 | 1 085 | 2 499 | 1 984 | 2 002 |
| Magnesia | 4 770 | 3 731 | 2 297 | 2 575 | 4 560 |
| Finland | | | | | |
| Magnesia | 12 856 | 10 159 | 17 096 | 11 567 | 16 476 |
| France | | | | | |
| Magnesite | 13 047 | 9 434 | 3 193 | 1 701 | 3 427 |
| Magnesia | 148 516 | 146 526 | 149 468 | 148 780 | 161 488 |
| Germany | | | | | |
| Magnesite | 16 285 | 19 665 | 7 724 | 4 684 | 6 353 |
| Magnesia | 451 522 | 453 680 | 348 042 | 348 766 | 515 089 |

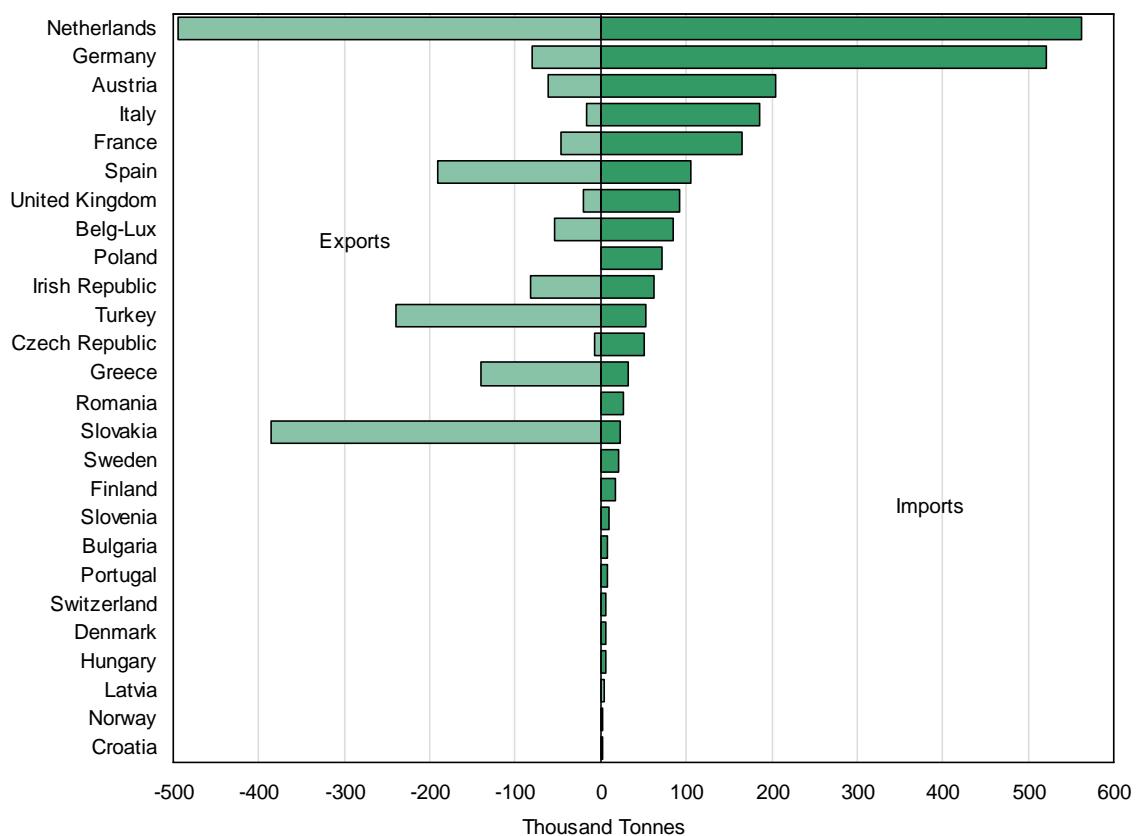
Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Greece | | | | | |
| Magnesite | 13 087 | 19 308 | 23 470 | 20 579 | 14 250 |
| Magnesia | 11 507 | 7 442 | 10 427 | 11 985 | 17 232 |
| Hungary | 12 032 | 32 296 | 10 463 | 7 003 | 6 251 |
| Irish Republic | | | | | |
| Magnesite | 108 | 1 500 | 15 449 | 25 886 | 12 653 |
| Magnesia | 47 947 | 59 905 | 43 802 | 49 664 | 49 466 |
| Italy | | | | | |
| Magnesite | 32 911 | 18 687 | 17 326 | 9 429 | 23 536 |
| Magnesia | 106 250 | 120 820 | 129 672 | 163 273 | 161 432 |
| Latvia | 3 071 | 3 021 | 3 518 | 5 297 | 3 344 |
| Netherlands | | | | | |
| Magnesite | 2 242 | 5 758 | 13 139 | 20 619 | 3 057 |
| Magnesia | 377 804 | 362 706 | 392 299 | 644 428 | 558 764 |
| Norway | | | | | |
| Magnesite | 4 013 | 3 148 | 3 736 | 2 587 | 2 125 |
| Magnesia | 403 | 130 | 190 | 1 643 | 500 |
| Poland | 69 772 | 73 266 | 77 830 | 82 164 | 71 774 |
| Portugal | | | | | |
| Magnesite | 1 888 | 909 | 885 | 969 | 1 012 |
| Magnesia | 18 635 | 6 078 | 5 855 | 4 808 | 5 998 |
| Romania | 31 707 | 35 478 | 23 255 | 26 209 | 27 243 |
| Slovakia | 36 609 | 32 571 | 31 606 | 27 698 | 23 379 |
| Slovenia | 8 406 | 9 377 | 9 732 | 9 560 | 9 899 |
| Spain | | | | | |
| Magnesite | 1 521 | 1 303 | 3 608 | 2 901 | 2 348 |
| Magnesia | 112 201 | 101 620 | 367 117 | 102 418 | 103 747 |
| Sweden | | | | | |
| Magnesia | 40 361 | 26 875 | 28 074 | 29 455 | 21 293 |
| Switzerland | | | | | |
| Magnesite | 394 | 228 | 225 | 294 | 168 |
| Magnesia | 4 600 | 4 521 | 5 744 | 6 538 | 6 708 |
| Turkey | | | | | |
| Magnesia | 23 373 | 50 238 | 56 000 | 38 084 | 52 432 |
| United Kingdom | | | | | |
| Magnesite | 7 122 | 9 252 | 20 287 | 11 187 | 13 896 |
| Magnesia | 108 988 | 98 075 | 82 100 | 83 539 | 78 843 |

Note(s) :-

(1) The term 'magnesia', as used here, includes dead-burned, sintered and caustic-burned (caustic calcined) material

Magnesite and magnesia – EU31 trade in 2005

Manganese ore

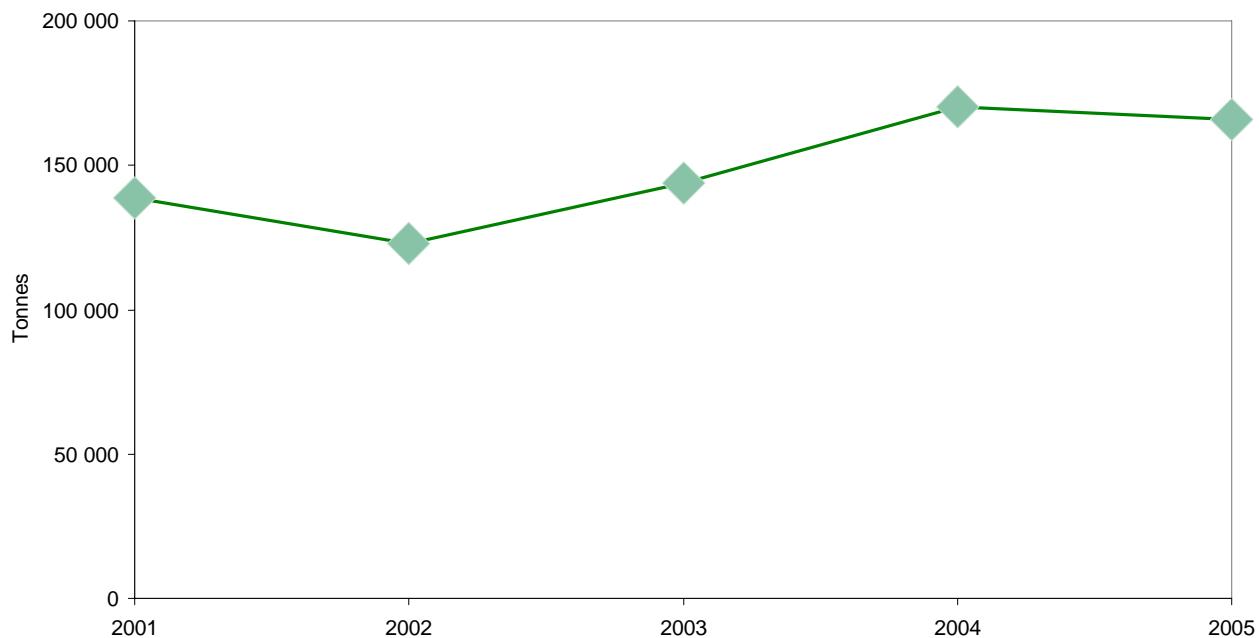
- Manganese is a hard, brittle metal. The chief ores are pyrolusite and other manganese dioxides. The principal use is in the steel industry as a desulphuriser and an alloying agent, where it imparts hardness and wear resistance. Manganese is also an important constituent of many aluminium alloys. Manganese dioxide is a component of dry-cell batteries; other compounds are used in the chemical industry.
- Economic concentrations of manganese are relatively rare and production is confined to 22 countries, although 56% of world production comes from China, South Africa, Australia and Brazil. Production of manganese in the EU31 is limited and Romania is the largest producer (approximately 43%).
- Manganese ore, ferro-manganese, electrolytic manganese dioxide and manganese metal are the chief forms in international trade. During 2005 prices for standard ferro-manganese (78% Mn, 7.5% C) decreased considerably from around \$1000/tonne to \$530/tonne towards the year-end. Manganese metal (electrolytic manganese flake) ranged in price from around \$1500/tonne–\$1745/tonne.

Production of manganese ore

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|---------|---------|---------|---------|---------|
| Bulgaria | 1 515 | 4 | 4 200 | 27 800 | 38 500 |
| Hungary | 43 000 | 43 000 | 48 000 | 49 000 | 50 000 |
| Italy | 803 | 867 | 763 | 714 | ... |
| Romania | 73 276 | 59 148 | 72 931 | 79 130 | 72 000 |
| Turkey | 20 000 | 20 000 | 18 000 | 13 751 | 4 751 |
| EU31 Total | 139 000 | 123 000 | 144 000 | 170 000 | 166 000 |

EU31 Production of manganese ore 2001 - 05



Manganese

Exports of manganese

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Metal | 28 326 | 29 058 | 18 923 | 11 575 | 5 470 |
| Belgium-Luxembourg | | | | | |
| Ores & Concentrates | 47 237 | 16 949 | 13 476 | 11 300 | 10 648 |
| Metal | 4 129 | 3 216 | 3 091 | 1 377 | 1 826 |
| Bulgaria | | | | | |
| Ores & Concentrates | 832 | ... | 6 402 | 42 122 | 53 559 |
| Estonia | | | | | |
| Metal | 490 | 923 | 1 320 | ... | ... |
| France | | | | | |
| Ores & Concentrates (a) | 382 914 | 413 461 | 332 067 | 272 815 | 139 723 |
| Metal | 261 | 168 | 424 | 745 | 324 |
| Germany | | | | | |
| Metal | 10 186 | 11 548 | 10 703 | 12 261 | 17 824 |
| Italy | | | | | |
| Metal | 62 | 120 | 37 | 113 | 241 |
| Netherlands | | | | | |
| Ores & Concentrates | 9 889 | 14 115 | 12 041 | 15 143 | 14 903 |
| Metal | 9 614 | 3 869 | 7 365 | 12 548 | 13 585 |
| Slovenia | | | | | |
| Metal | 3 | 104 | 185 | 143 | 2 584 |
| Spain | | | | | |
| Ores & Concentrates | 11 474 | 1 208 | 855 | 989 | 776 |
| Metal | 6 113 | 5 727 | 4 791 | 6 117 | 6 651 |
| Sweden | | | | | |
| Metal | 99 | 425 | 352 | 196 | 143 |
| Turkey | | | | | |
| Ores & Concentrates | 560 | 5 655 | ... | 12 817 | 955 |
| United Kingdom | | | | | |
| Metal (b) | *6 000 | *4 300 | *5 500 | *3 100 | *3 000 |

Note(s):-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) Including manganiferous iron ore

(b) BGS estimates, based on known imports into certain countries

Imports of manganese

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|-----------|---------|---------|---------|---------|
| Austria | | | | | |
| Metal | 19 889 | 18 223 | 10 024 | 6 497 | 8 707 |
| Belgium-Luxembourg | | | | | |
| Ores & Concentrates | 106 749 | 72 216 | 79 645 | 73 953 | 66 840 |
| Metal | 8 136 | 5 413 | 4 480 | 2 466 | 4 150 |
| Bulgaria | | | | | |
| Ores & Concentrates | 8 612 | 1 125 | 234 401 | 46 768 | 13 631 |
| Croatia | | | | | |
| Metal | 58 | 57 | 50 | 93 | 93 |
| Czech Republic | | | | | |
| Ores & Concentrates | 7 314 | 11 507 | 11 966 | 11 663 | 13 820 |
| Metal | 206 | 376 | 386 | 593 | 619 |
| Denmark | | | | | |
| Metal | 76 | 115 | 152 | 164 | 157 |
| Estonia | | | | | |
| Metal | 821 | 155 | 1 201 | 401 | 552 |
| Finland | | | | | |
| Ores & Concentrates | 10 538 | 36 014 | 9 983 | 20 381 | 28 335 |
| Metal | 259 | 997 | 717 | 547 | 753 |
| France | | | | | |
| Ores & Concentrates (a) | 1 390 507 | 968 498 | 892 176 | 626 061 | 615 884 |
| Metal | 11 081 | 8 693 | 7 613 | 8 851 | 11 039 |

Imports continued

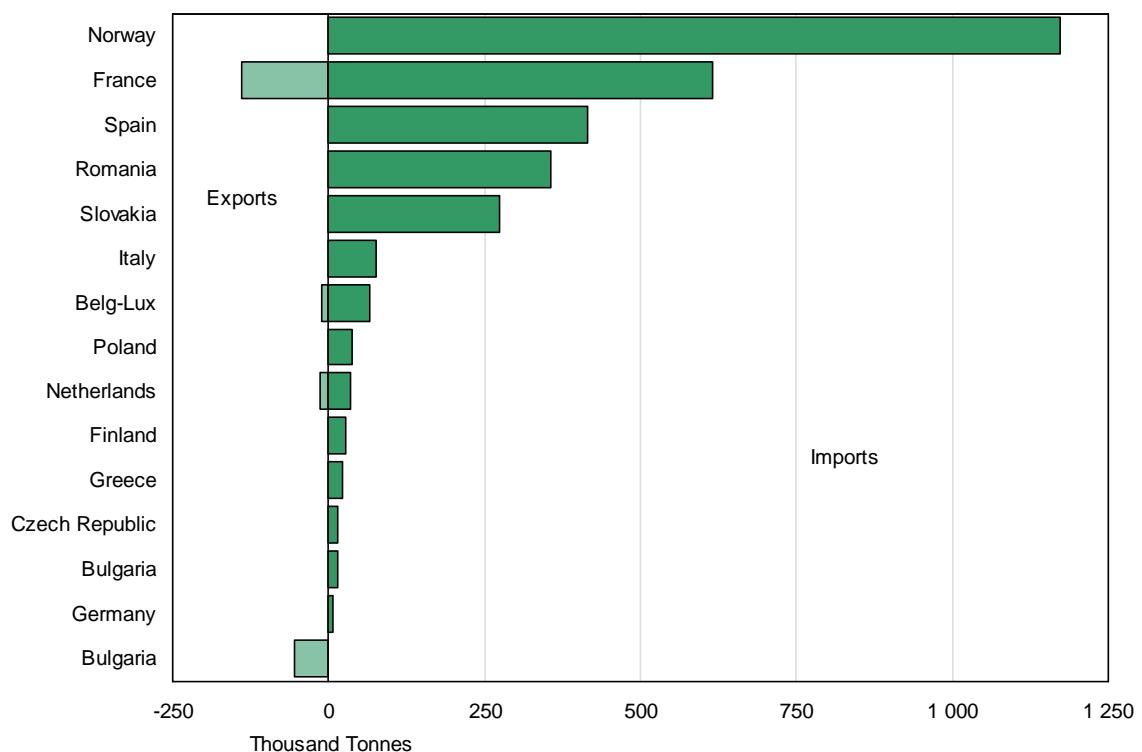
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|---------|---------|---------|-----------|-----------|
| Germany | | | | | |
| Ores & Concentrates (a) | 7 380 | 6 629 | 6 917 | 8 034 | 7 645 |
| Metal | 45 296 | 45 208 | 21 229 | 22 435 | 29 449 |
| Greece | | | | | |
| Ores & Concentrates | 22 329 | 2 | 24 985 | 1 | 22 001 |
| Metal | 681 | 1 289 | 389 | 1 510 | 905 |
| Hungary | | | | | |
| Metal | 476 | 677 | 568 | 111 | 889 |
| Irish Republic | | | | | |
| Ores & Concentrates (a) | 38 977 | 27 456 | 19 306 | 268 | 285 |
| Metal | 49 | 23 | 9 | 5 | 5 |
| Italy | | | | | |
| Ores & Concentrates (a) | 100 908 | 111 716 | 100 796 | 206 249 | 76 278 |
| Metal | 10 089 | 4 723 | 3 673 | 4 970 | 8 494 |
| Netherlands | | | | | |
| Ores & Concentrates | 10 209 | 7 086 | 11 136 | 14 558 | 35 936 |
| Metal | 9 661 | 4 533 | 9 112 | 14 347 | 61 240 |
| Norway | | | | | |
| Ores & Concentrates | 711 545 | 660 348 | 803 971 | 1 132 985 | 1 172 711 |
| Metal | 1 699 | 2 155 | 3 069 | 3 610 | 2 976 |
| Poland | | | | | |
| Ores & Concentrates | 43 603 | 14 597 | 10 037 | 205 290 | 38 845 |
| Metal | 1 834 | 821 | 432 | 652 | 499 |
| Romania | | | | | |
| Ores & Concentrates | 128 961 | 209 891 | 380 043 | 534 014 | 357 327 |
| Metal | 158 | 230 | 297 | 303 | 427 |
| Slovakia | | | | | |
| Ores & Concentrates | ... | 186 061 | 176 511 | 257 331 | 273 270 |
| Metal | 185 | 121 | 147 | ... | 146 |
| Slovenia | | | | | |
| Metal | 42 | 154 | 152 | 296 | 316 |
| Spain | | | | | |
| Ores & Concentrates | 352 275 | 431 720 | 437 088 | 575 518 | 415 959 |
| Metal | 12 475 | 8 174 | 10 569 | 9 786 | 10 537 |
| Sweden | | | | | |
| Ores & Concentrates | 1 871 | 98 | 91 | 62 | 119 |
| Metal | 8 072 | 6 660 | 3 618 | 2 641 | 2 632 |
| Switzerland | | | | | |
| Metal | 449 | 404 | 501 | 484 | 486 |
| Turkey | | | | | |
| Metal | 34 | 182 | 137 | 495 | 300 |
| United Kingdom | | | | | |
| Ores & Concentrates (a) | 2 701 | 1 218 | 2 102 | 2 585 | 698 |
| Metal | 9 636 | 7 600 | 8 250 | 9 189 | 8 223 |

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

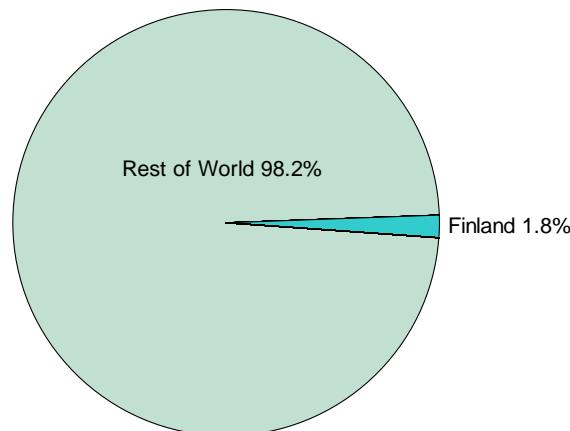
(a) Including manganeseiferous iron ore

Manganese ores and concentrates – EU31 trade in 2005

Mercury

- Mercury is the only metallic element that is liquid at room temperature. The chief economic sources are deposits of the mineral cinnabar but mercury is also recovered from base metal refining. Mercury's main uses are in electrical switches and other control apparatus, and in dental amalgam. Large amounts remain in use in chlor-alkali plants and in batteries but these applications are being phased out.
- Only ten countries commercially extracted mercury in 2005. Spain was the largest mercury producer in the world up to 2003. However, with the closure of the Almaden mine and associated metallurgical works, China and Kyrgyzstan are now the world's two largest producers and are responsible for 87% of total world output.
- Mercury prices increased considerably during 2005 due to curtailment of production resulting from problems at key operations and environmental concerns and increased demand. Reported prices for mercury rose from the \$638-\$738/flask (1 flask is approximately 76 lb) range at the start of the year to over \$900/flask in April, before ending the year in the \$650-\$750/flask range.

EU31 Production of mercury 2005



Production of mercury

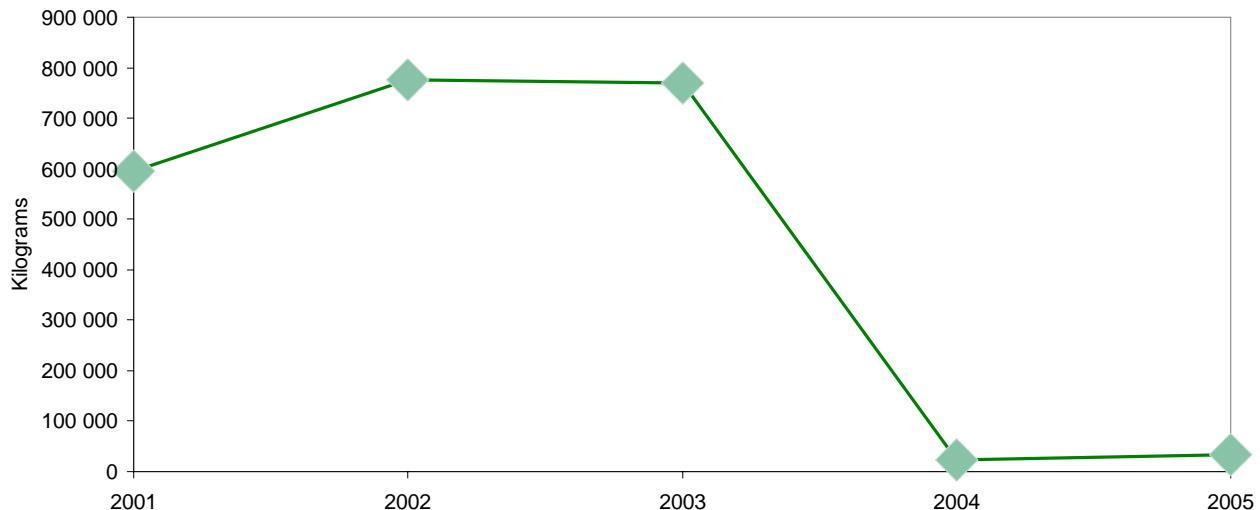
kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|---------|---------|---------|--------|--------|
| Finland | 71 200 | 50 600 | 25 000 | 23 500 | 34 200 |
| Spain | 524 000 | 726 139 | 745 260 | — | — |
| EU31 Total | 595 200 | 776 700 | 770 300 | 23 500 | 34 200 |

Note(s):-

(1) Several countries are believed to have unrecorded production of mercury from copper electrowinning processes and by recovery from effluents

EU31 Production of mercury 2001 - 05



Exports of mercury

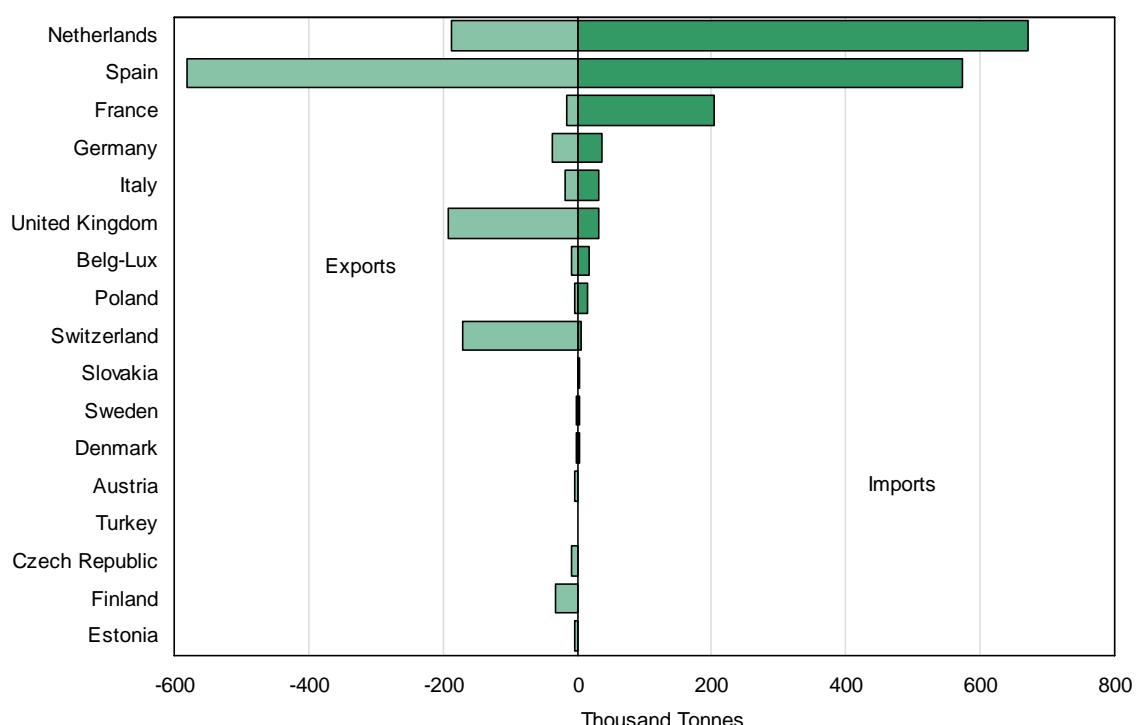
kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 24 100 | 900 | 800 | 1 700 | 4 100 |
| Belgium-Luxembourg | 54 100 | 15 900 | 17 000 | 1 300 | 8 800 |
| Czech Republic | 12 000 | 16 542 | 9 970 | 22 172 | 8 200 |
| Denmark | 865 | 3 642 | 10 554 | 27 458 | 1 932 |
| Estonia | ... | 2 476 | 2 500 | ... | 3 400 |
| Finland | 77 627 | 54 859 | 25 530 | 23 462 | 32 090 |
| France | 12 500 | 7 100 | 6 800 | 93 800 | 15 400 |
| Germany | 412 000 | 59 500 | 48 900 | 55 500 | 36 200 |
| Italy | 21 968 | 274 624 | 20 153 | 6 952 | 18 244 |
| Netherlands | 298 000 | 344 400 | 105 100 | 183 998 | 188 220 |
| Poland | 82 000 | 24 000 | ... | 2 | 3 000 |
| Slovakia | 34 000 | 1 188 | 2 437 | 0 | 6 |
| Slovenia | 1 446 | 1 312 | 15 826 | 7 327 | 1 395 |
| Spain | 569 833 | 820 527 | 836 784 | 596 739 | 581 653 |
| Sweden | 23 000 | ... | ... | 0 | 1 000 |
| Switzerland | 92 862 | 36 900 | 7 793 | 316 631 | 171 790 |
| United Kingdom | 17 299 | 6 226 | 851 | 2 054 | 191 193 |

Imports of mercury

kilograms

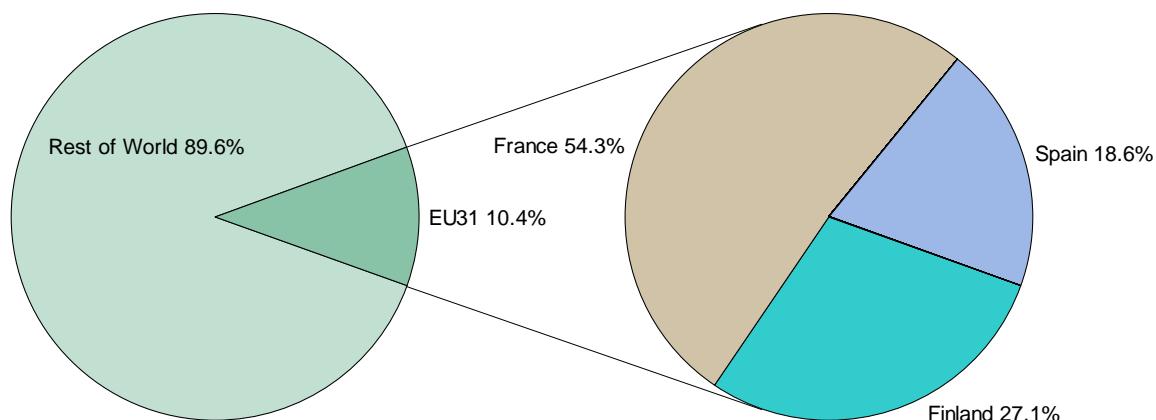
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 2 400 | 5 700 | 4 000 | 3 900 | 1 600 |
| Belgium-Luxembourg | 18 000 | 22 600 | 29 200 | 54 700 | 18 600 |
| Czech Republic | 1 000 | 1 875 | 2 531 | 7 300 | 1 100 |
| Denmark | 1 276 | 796 | 260 | 403 | 2 901 |
| Finland | 177 | 158 | 214 | 554 | 28 |
| France | 23 100 | 25 200 | 57 900 | 299 200 | 202 600 |
| Germany | 68 300 | 19 900 | 39 500 | 80 600 | 36 200 |
| Greece | 125 335 | 291 | 11 617 | 187 | 954 |
| Irish Republic | 2 401 | 1 008 | 11 604 | 61 | 72 |
| Italy | 32 672 | 15 389 | 27 140 | 135 119 | 32 471 |
| Netherlands | 908 200 | 517 600 | 143 200 | 616 057 | 670 022 |
| Norway | 347 | 99 | 38 | 42 | 65 |
| Poland | 7 000 | 21 976 | 3 875 | 4 456 | 15 700 |
| Portugal | 7 546 | 533 | 523 | 291 | 0 |
| Slovakia | 4 000 | 3 677 | 2 230 | 2 738 | 3 457 |
| Spain | 734 351 | 318 263 | 350 266 | 301 097 | 572 872 |
| Sweden | 2 096 | 4 004 | 3 022 | 4 000 | 3 000 |
| Switzerland | 24 309 | 18 901 | 9 354 | 9 704 | 5 846 |
| Turkey | 10 602 | 5 358 | 8 152 | 6 044 | 1 443 |
| United Kingdom | 5 042 | 23 302 | 29 673 | 27 875 | 32 306 |

Mercury – EU31 trade in 2005

Mica

- Micas are a group of chemically complex rock-forming minerals recognisable by a perfect cleavage (i.e. they are naturally flaky). Sheet mica is used predominantly in electrical insulation and ground mica has a very wide variety of uses including filler, dusting agent, absorbent, fire insulator, strength enhancer in plastics and decorative material.
- Although a very common mineral, commercial concentrations of mica are relatively rare. Production is limited to about 23 countries. Of these, China (30%) was the largest producer in 2005. Mica is produced in four EU31 countries, of which the largest producer is France (54%).
- Because of the wide variety of micas there are many trading categories that are very sensitive to quality. Prices ranged from \$210–\$1300/tonne in 2005.

EU31 Production of mica 2005



Production of mica

tonnes

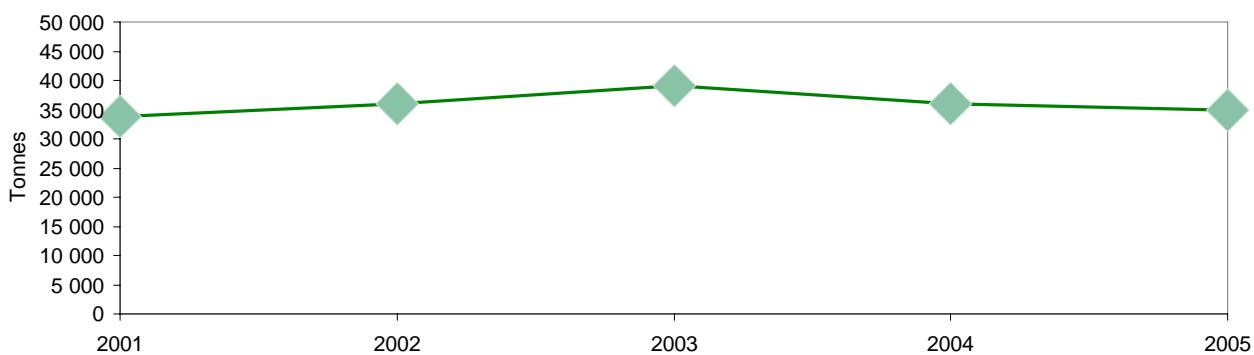
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|--------|--------|--------|--------|--------|
| Finland | 8 983 | 7 170 | 9 337 | 9 250 | 9 500 |
| France (a) | 15 000 | 17 000 | 18 000 | 19 000 | ... |
| Spain (a) | 9 874 | 11 783 | 11 800 | 7 825 | 6 500 |
| EU31 Total | 34 000 | 36 000 | 39 000 | 36 000 | 35 000 |

Note(s):-

(1) In addition to the countries listed, Romania is believed to produce mica

(a) Including mica recovered from mica schists and/or kaolin beneficiation

EU31 Production of mica 2001 - 05



Exports of mica

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|---------|--------|--------|
| Austria | 2 951 | 3 512 | 3 767 | 3 917 | 4 915 |
| Belgium-Luxembourg | 829 | 915 | 1 907 | 1 635 | 3 226 |
| Finland | 7 362 | 5 514 | 8 099 | 7 511 | 5 745 |
| France | 2 836 | 4 387 | 114 464 | 14 323 | 13 469 |
| Germany | 1 922 | 2 018 | 2 457 | 3 655 | 3 656 |
| Greece | 121 | 179 | 4 239 | 2 769 | 5 653 |
| Italy | 349 | 667 | 371 | 623 | 738 |
| Netherlands | 1 397 | 4 384 | 5 359 | 6 084 | 2 912 |
| Norway | 1 760 | 2 155 | 2 413 | 2 076 | 2 003 |
| Spain | 1 856 | 2 001 | 3 996 | 3 075 | 2 591 |
| Sweden | 102 | 89 | 51 | 58 | 83 |
| Turkey | 338 | 503 | 546 | 15 975 | 565 |
| United Kingdom | | | | | |
| Unmanufactured | 22 | 20 | 34 | — | 20 |
| Ground | 3 758 | 4 023 | 4 740 | 9 354 | 4 030 |
| Waste | 17 | 46 | 0 | 23 | 0 |

Note(s):-

- (1) This table shows unmanufactured mica and includes sheet, block, splittings, ground and waste, unless these are separately specified. Mica powder is included under the term 'ground'

Imports of mica

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Austria | 570 | 599 | 899 | 645 | 512 |
| Belgium-Luxembourg | | | | | |
| Unmanufactured | ... | 276 | 89 | 1 588 | 913 |
| Ground | 1 033 | 1 359 | 3 223 | 4 311 | 2 996 |
| Czech Republic | 890 | 926 | 764 | 879 | 819 |
| Denmark | 241 | 408 | 305 | 369 | 413 |
| Finland | 1 818 | 2 621 | 3 664 | 2 861 | 2 998 |
| France | | | | | |
| Ground (a) | 1 689 | 1 241 | 3 182 | 1 358 | 1 534 |
| Waste | 981 | 2 001 | 1 043 | 546 | 1 423 |
| Germany | | | | | |
| Unmanufactured | 387 | 227 | 205 | 237 | 89 |
| Ground | 21 498 | 23 488 | 24 993 | 28 784 | 30 820 |
| Waste | 468 | 345 | 840 | 1 212 | 1 101 |
| Greece | 48 | 114 | 203 | 94 | 131 |
| Irish Republic | 639 | 463 | 364 | 551 | 889 |
| Italy | | | | | |
| Unmanufactured | 62 | 52 | 106 | 65 | 118 |
| Ground | 2 594 | 2 586 | 2 759 | 3 473 | 3 405 |
| Netherlands | 3 383 | 6 320 | 8 540 | 10 005 | 7 524 |
| Norway | 2 426 | 1 174 | 1 759 | 1 559 | 1 001 |
| Poland | 820 | 557 | 486 | 878 | 547 |
| Portugal | 56 | 113 | 198 | 311 | 193 |
| Romania | | | | | |
| Mica | 72 | ... | 590 | 828 | 886 |
| Spain | 1 185 | 5 447 | 1 810 | 1 641 | 1 917 |
| Sweden | 562 | 547 | 566 | 514 | 592 |
| Switzerland | 300 | 289 | 357 | 426 | 601 |
| Turkey | 136 | 33 | 169 | 215 | 248 |
| United Kingdom | | | | | |
| Unmanufactured | 344 | 240 | 424 | 1 769 | 296 |
| Ground | 7 258 | 9 349 | 8 327 | 6 286 | 6 684 |
| Waste | 4 016 | 4 224 | 5 050 | 4 374 | 4 485 |

Note(s) :-

- (1) This table shows unmanufactured mica and includes sheet, block, splittings, ground and waste, unless these are separately specified. Mica powder is included under the term 'ground'

(a) Including unmanufactured

Molybdenum

- Molybdenum is a hard metal. It is an important component of high tensile steel where it imparts hardness, tolerance of high temperatures and resistance to corrosion. Molybdenum disulphide is used as a dry lubricant.
- Molybdenum is generally produced as a by-product of copper mining. Production in 2005 was confined to only 13 countries, of which the USA, Chile and China together produced 79%.
- Molybdenum is marketed mainly as concentrate, oxide and ferro-molybdenum. Rising demand since 2003 has resulted in demand outstripping supply and significant price increases. The average prices in 2005 for molybdenum oxide and ferro-molybdenum were \$70.7/kg and \$81.1/kg respectively, representing more than a 100% increase compared to 2004.

Exports of molybdenum

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|--------|------------|------------|------------|
| Austria | | | | | |
| Metal | 2 023 | 2 123 | (a) *2 200 | (a) *2 300 | (a) *4 800 |
| Oxides | 0 | 0 | 5 | 125 | ... |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 9 864 | 9 271 | 11 690 | 16 219 | 17 683 |
| Metal | 543 | 199 | 314 | 221 | 342 |
| Oxides | 242 | 1 621 | 820 | 571 | 687 |
| Bulgaria | | | | | |
| Metal | ... | 37 | 49 | 546 | 105 |
| Estonia | | | | | |
| Metal | 76 | 1 | 47 | 1 | 1 |
| France | | | | | |
| Metal | 93 | 65 | 15 | 436 | 35 |
| Oxides | 11 | 20 | 27 | 31 | 9 |
| Germany | | | | | |
| Ores & concentrates | 157 | 240 | 905 | 2 309 | 2 770 |
| Metal | 1 220 | 1 274 | 1 465 | 2 014 | 2 241 |
| Oxides | 4 441 | 2 523 | 2 894 | — | — |
| Italy | | | | | |
| Metal | 98 | 57 | 250 | 171 | 132 |
| Netherlands | | | | | |
| Ores & concentrates | 16 092 | 52 237 | 17 141 | 30 424 | 47 395 |
| Metal | 829 | 81 | 161 | 120 | 59 |
| Oxides | 2 014 | 1 920 | 1 640 | 2 010 | 2 708 |
| United Kingdom | | | | | |
| Ores & concentrates | 297 | 418 | 84 | 180 | 179 |
| Metal | 1 046 | 326 | 230 | 312 | 807 |

Note(s):-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) BGS estimates, based on known imports into certain countries

Imports of molybdenum

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|--------|--------|--------|--------|--------|
| Austria | | | | | |
| Metal | 197 | 356 | 382 | 865 | 599 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 19 527 | 24 746 | 36 903 | 45 922 | 54 452 |
| Metal | 1 196 | 277 | 179 | 277 | 383 |
| Oxides | 635 | 730 | 2 702 | 1 519 | 2 072 |
| Czech Republic | | | | | |
| Ores & concentrates | ... | ... | ... | ... | 189 |
| Metal | 45 | 29 | 42 | 66 | 89 |
| Estonia | | | | | |
| Metal | 102 | 0 | 43 | 4 | ... |
| Finland | | | | | |
| Ores & concentrates | 3 296 | 3 581 | 4 868 | 5 603 | 4 127 |
| France | | | | | |
| Ores & concentrates | 2 126 | 1 604 | 1 591 | 1 492 | 1 783 |
| Metal | 635 | 686 | 727 | 762 | 993 |
| Oxides | 119 | 284 | 371 | 664 | 678 |
| Germany | | | | | |
| Ores & concentrates | 10 814 | 8 663 | 9 800 | 12 221 | 11 537 |
| Metal | 2 364 | 2 406 | 1 878 | 3 043 | 2 569 |
| Oxides | 318 | 397 | 545 | 703 | 725 |
| Greece | | | | | |
| Metal | 12 | 21 | 1 | 13 | 2 |
| Hungary | | | | | |
| Metal | 114 | 105 | 121 | 129 | 129 |
| Italy | | | | | |
| Ores & concentrates | 4 065 | 4 097 | 4 119 | 4 719 | 5 109 |
| Metal | 284 | 163 | 122 | 105 | 203 |
| Oxides | 74 | 141 | 172 | 247 | 117 |
| Netherlands | | | | | |
| Ores & concentrates | 25 896 | 21 723 | 29 337 | 39 710 | 31 781 |
| Metal | 192 | 285 | 459 | 141 | 287 |
| Oxides | 1 958 | 1 891 | 1 577 | 2 032 | 1 509 |
| Poland | | | | | |
| Ores & concentrates | 111 | 16 | 1 | 8 | 1 |
| Metal | 54 | 84 | 36 | 142 | 102 |
| Portugal | | | | | |
| Metal | 14 | 15 | 15 | 24 | 14 |
| Slovenia | | | | | |
| Ores & concentrates | 95 | 0 | 42 | 524 | 5 674 |
| Spain | | | | | |
| Ores & concentrates | 3 811 | 4 226 | 3 917 | 3 805 | 3 317 |
| Metal | 34 | 91 | 45 | 30 | 31 |
| Sweden | | | | | |
| Ores & concentrates | 5 409 | 6 132 | 5 235 | 5 826 | 5 690 |
| Metal | 249 | 219 | 252 | 458 | 280 |
| Oxides | 659 | 791 | 784 | 594 | 392 |
| Switzerland | | | | | |
| Metal | 25 | 21 | 26 | 25 | 31 |
| Turkey | | | | | |
| Metal | 2 | 4 | 4 | 10 | 4 |
| Oxides | 66 | 54 | 84 | 130 | 82 |
| United Kingdom | | | | | |
| Ores & concentrates | 16 373 | 21 437 | 18 884 | 18 371 | 18 600 |
| Metal | 1 165 | 1 220 | 1 169 | 1 854 | 2 877 |
| Oxides | 60 | 106 | 7 | 2 | 630 |

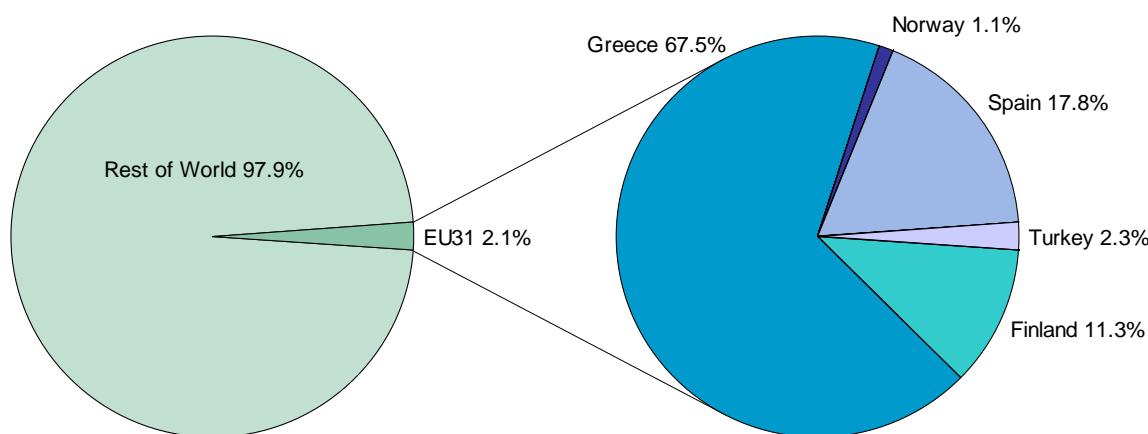
Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Nickel

- Nickel is a hard, strong, corrosion-resistant malleable and ductile metal that is a good conductor of heat and electricity. Its most important use is in steel alloys where it imparts strength and toughness. It is also widely used in plating, both metals and plastics, and combined with copper in cupro-nickel alloys.
- Almost half of world nickel mine production in 2005 was supplied by Russia, Australia and Canada. Greece is the only significant mine producer in the EU31 but several countries refine nickel based on imported raw materials. Norway was the largest EU31 refined nickel producer in 2005.
- As a result of a relatively small production base, the refined nickel price can be quite volatile. The nickel market enjoyed strong growth in the first half of 2005 largely driven by increased use of stainless steel. Average LME nickel prices increased from US\$13830/tonne in 2004 to a high of US\$24750/tonne in June 2005 before dropping back to US\$13200/tonne in December.

EU31 Mine production of nickel 2005

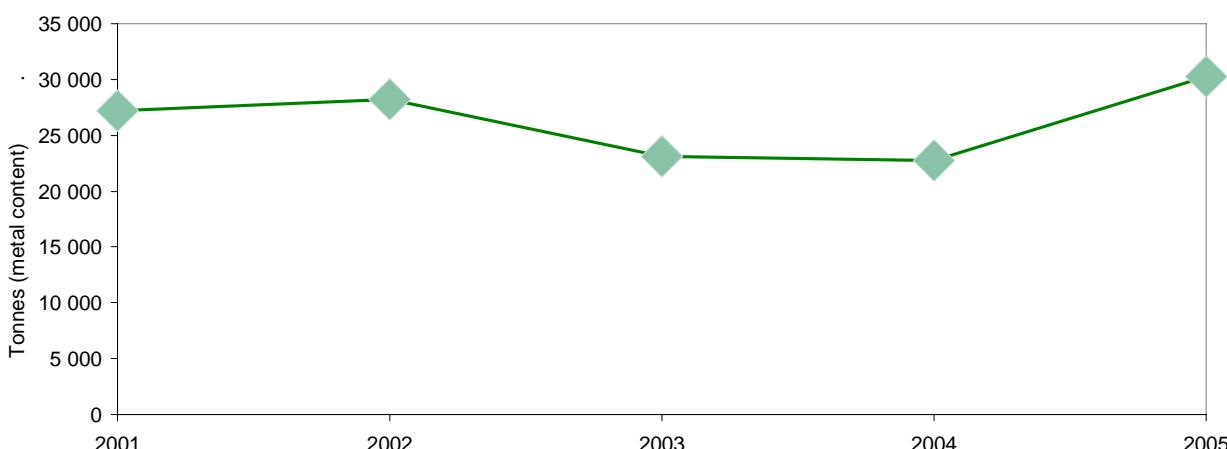


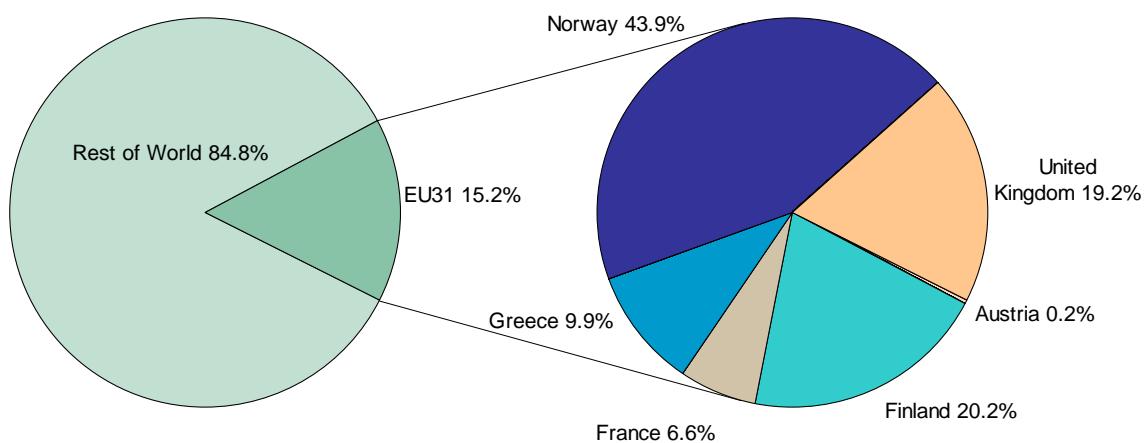
Mine production of nickel

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|--------|--------|--------|--------|--------|
| Finland | 3 700 | 3 500 | 3 400 | 3 400 | 3 400 |
| Greece | 20 742 | 22 700 | 19 100 | 19 000 | 20 400 |
| Norway | 2 800 | 2 052 | — | 382 | 342 |
| Spain | — | — | — | — | 5 380 |
| Turkey | — | — | 640 | — | 700 |
| EU31 Total | 27 200 | 28 300 | 23 100 | 22 800 | 30 200 |

EU31 Mine production of nickel 2001 - 05



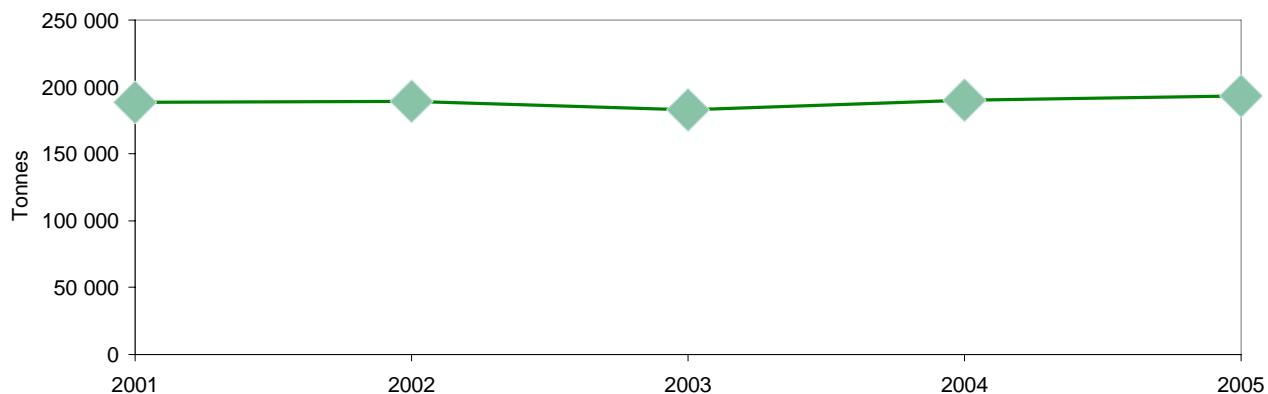
EU31 Smelter/refinery production of nickel 2005**Smelter/refinery production of nickel**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Austria | 1 300 | *1 000 | 1 000 | 300 | 400 |
| Finland | 54 600 | 55 348 | 50 989 | 49 580 | 39 159 |
| France | 13 036 | 11 444 | 11 370 | 12 103 | 12 684 |
| Greece | 17 675 | 19 230 | 18 000 | 18 116 | 19 235 |
| Norway | 68 200 | 68 500 | 77 183 | 71 410 | 84 886 |
| United Kingdom | 33 800 | 33 800 | 24 200 | 38 600 | 37 100 |
| EU31 Total | 188 600 | 189 300 | 182 700 | 190 100 | 193 500 |

Note(s):-

(1) Data relate to refined nickel plus the nickel content of ferro-nickel, nickel oxide and nickel salts

EU31 Smelter/refinery production of nickel 2001 - 05**Exports of nickel**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|--------|--------|-------|--------|--------|
| Austria | | | | | |
| Mattes, sinters etc. | 153 | 288 | 47 | 9 | ... |
| Unwrought (a) | 532 | 570 | 206 | 297 | 226 |
| Scrap | 495 | 377 | 440 | 1 520 | 1 927 |
| Belgium-Luxembourg | | | | | |
| Unwrought | 12 265 | 12 351 | 9 848 | 16 290 | 13 376 |
| Unwrought alloys | 2 531 | 1 752 | 1 947 | 2 843 | 2 510 |
| Scrap | 2 595 | 6 118 | 1 114 | 1 694 | 1 008 |
| Oxides | 380 | 712 | 268 | 772 | 702 |

Nickel

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|------------|-------------|------------|----------|----------|
| Czech Republic | | | | | |
| Unwrought (a) | 42 | 211 | 186 | 967 | 57 |
| Scrap | 237 | 219 | 417 | 525 | 843 |
| Oxides | 126 | 159 | 358 | 296 | 658 |
| Denmark | | | | | |
| Scrap | 280 | 190 | 593 | 777 | 676 |
| Estonia | | | | | |
| Mattes, sinters etc. | 938 | 0 | 86 | ... | ... |
| Unwrought (a) | 619 | — | 999 | ... | 42 |
| Scrap | 1 587 | 195 | 108 | 296 | 34 |
| Finland | | | | | |
| Ores & concentrates | 30 711 | 11 939 | 1 459 | — | — |
| Unwrought | 36 815 | 39 367 | 37 416 | 36 458 | 30 628 |
| Scrap | 50 | 118 | ... | 26 | 28 |
| Oxides | ... | (b) *2 000 | (b) *600 | (b) *500 | (b) *400 |
| France | | | | | |
| Unwrought | 9 094 | 7 460 | 8 396 | 9 203 | 10 148 |
| Unwrought alloys | 434 | 294 | 542 | 1 455 | 1 762 |
| Scrap | 9 134 | 6 625 | 8 306 | 6 618 | 6 373 |
| Oxides | 551 | 24 | 359 | 1 140 | 63 |
| Germany | | | | | |
| Ores & concentrates | 8 083 | 12 229 | 10 884 | 10 717 | 7 822 |
| Unwrought | 8 418 | 5 582 | 5 225 | 5 549 | 8 988 |
| Unwrought alloys | 6 328 | 5 837 | 6 011 | 8 732 | 9 376 |
| Scrap | 10 826 | 8 277 | 8 091 | 8 096 | 9 342 |
| Oxides | 670 | 505 | 246 | 105 | 102 |
| Irish Republic | | | | | |
| Scrap | 674 | 701 | 664 | 797 | 641 |
| Italy | | | | | |
| Unwrought (a) | 2 102 | 2 701 | 2 923 | 1 637 | 1 720 |
| Scrap | 1 057 | 552 | 351 | 644 | 1 923 |
| Latvia | | | | | |
| Scrap | 2 293 | 1 004 | 853 | 170 | 538 |
| Lithuania | | | | | |
| Scrap | 739 | 759 | 996 | 770 | 411 |
| Netherlands | | | | | |
| Mattes, sinters etc. | (b) *8 200 | (b) *19 300 | (b) *8 100 | 37 108 | 41 174 |
| Unwrought (a) | 54 127 | 25 214 | 33 096 | 24 467 | 21 895 |
| Scrap | 1 365 | 1 494 | 3 602 | 2 745 | 2 009 |
| Oxides | ... | 2 528 | 0 | 28 549 | 6 017 |
| Norway | | | | | |
| Ores & concentrates | 30 142 | 25 902 | 6 268 | 9 575 | 7 581 |
| Unwrought | 65 829 | 67 718 | 78 389 | 71 982 | 84 012 |
| Scrap | 255 | 139 | 264 | 909 | 897 |
| Poland | | | | | |
| Oxides | 125 | 146 | 339 | 468 | 529 |
| Slovenia | | | | | |
| Unwrought (a) | 225 | 262 | 116 | 144 | 117 |
| Spain | | | | | |
| Unwrought (a) | 169 | 609 | 126 | 177 | 572 |
| Scrap | 385 | 208 | 420 | 363 | 528 |
| Sweden | | | | | |
| Unwrought | 613 | 1 887 | 384 | 126 | 112 |
| Scrap | 432 | 1 661 | 1 096 | 1 138 | 4 369 |
| Oxides | 125 | 142 | 181 | 317 | 291 |
| Switzerland | | | | | |
| Unwrought (a) | 179 | 105 | 125 | 49 | 73 |
| Scrap | 492 | 587 | 880 | 1 106 | 1 403 |
| Turkey | | | | | |
| Ores & concentrates | ... | ... | 43 600 | 3 511 | 51 703 |

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|--------|--------|--------|--------|--------|
| United Kingdom | | | | | |
| Mattes, sinters etc. | 136 | 128 | 200 | 964 | 196 |
| Unwrought | 21 670 | 19 775 | 19 200 | 38 249 | 38 524 |
| Unwrought alloys | 5 955 | 4 257 | 4 899 | 4 710 | 6 141 |
| Scrap | 7 736 | 7 912 | 7 861 | 10 465 | 14 119 |

Note(s):-

(1) In this table the term 'unwrought' nickel corresponds to item 7502 of the Harmonised System which excludes all electro-plating anodes
 (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

- (a) Including alloys
- (b) BGS estimates, based on known imports into certain countries

Imports of nickel

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Mattes, sinters etc. | 552 | 737 | 401 | 369 | 460 |
| Unwrought (a) | 5 150 | 4 554 | 5 251 | 6 772 | 6 903 |
| Scrap | 540 | 641 | 520 | 632 | 447 |
| Oxides | 853 | 609 | 430 | 293 | 312 |
| Belgium-Luxembourg | | | | | |
| Mattes, sinters etc. | 33 | 216 | 61 | 162 | 214 |
| Unwrought | 33 851 | 32 016 | 41 648 | 42 387 | 41 364 |
| Unwrought alloys | 682 | 488 | 636 | 979 | 822 |
| Scrap | 2 577 | 2 611 | 828 | 1 644 | 1 221 |
| Oxides | 292 | 326 | 497 | 366 | 324 |
| Czech Republic | | | | | |
| Unwrought (a) | 2 231 | 1 825 | 2 158 | 2 574 | 2 520 |
| Oxides | 177 | 236 | 465 | 712 | 785 |
| Denmark | | | | | |
| Unwrought (a) | 202 | 114 | 96 | 112 | 97 |
| Estonia | | | | | |
| Mattes, sinters etc. | 1 779 | 1 075 | 1 696 | 46 | 73 |
| Unwrought (a) | 691 | 315 | 1 328 | 163 | 60 |
| Scrap | 1 641 | 211 | 100 | 331 | 108 |
| Finland | | | | | |
| Ores & concentrates | 250 973 | 178 968 | 146 122 | 169 170 | 104 983 |
| Mattes, sinters etc. | 30 946 | 57 571 | 51 225 | 42 944 | 50 194 |
| Unwrought (a) | 9 809 | 14 977 | 24 289 | 24 307 | 23 801 |
| Unwrought alloys | ... | ... | ... | ... | 875 |
| Scrap | 31 | 90 | 200 | 1 332 | 860 |
| Oxides | 48 | 6 093 | 0 | 11 | ... |
| France | | | | | |
| Mattes, sinters etc. | 19 437 | 15 496 | 15 087 | 12 329 | 15 399 |
| Unwrought | 34 347 | 39 979 | 30 995 | 26 842 | 22 656 |
| Unwrought alloys | 7 372 | 2 269 | 3 192 | 5 350 | 6 104 |
| Scrap | 1 848 | 2 048 | 2 210 | 2 068 | 1 554 |
| Oxides | 219 | 140 | 200 | 166 | 228 |
| Germany | | | | | |
| Mattes, sinters etc. | 9 525 | 23 006 | 4 030 | 7 264 | 6 902 |
| Unwrought | 81 674 | 84 677 | 72 571 | 72 788 | 87 939 |
| Unwrought alloys | 1 660 | 1 625 | 1 933 | 1 646 | 2 182 |
| Scrap | 9 254 | 11 197 | 10 889 | 11 347 | 11 672 |
| Oxides | 590 | 668 | 563 | 517 | 502 |
| Greece | | | | | |
| Ores & concentrates | 31 111 | ... | 10 480 | 6 | 29 153 |
| Unwrought | 126 | 67 | 60 | 61 | 56 |
| Irish Republic | | | | | |
| Unwrought (a) | 1 834 | 1 361 | 1 558 | 1 493 | 1 775 |
| Italy | | | | | |
| Mattes, sinters etc. | 225 | 515 | 306 | 353 | 32 |
| Unwrought | 50 142 | 49 803 | 51 276 | 41 944 | 37 708 |
| Unwrought alloys | 1 845 | 1 577 | 1 211 | 2 664 | 1 455 |
| Scrap | 2 141 | 559 | 2 248 | 3 075 | 5 119 |

Nickel

Imports continued

tonnes

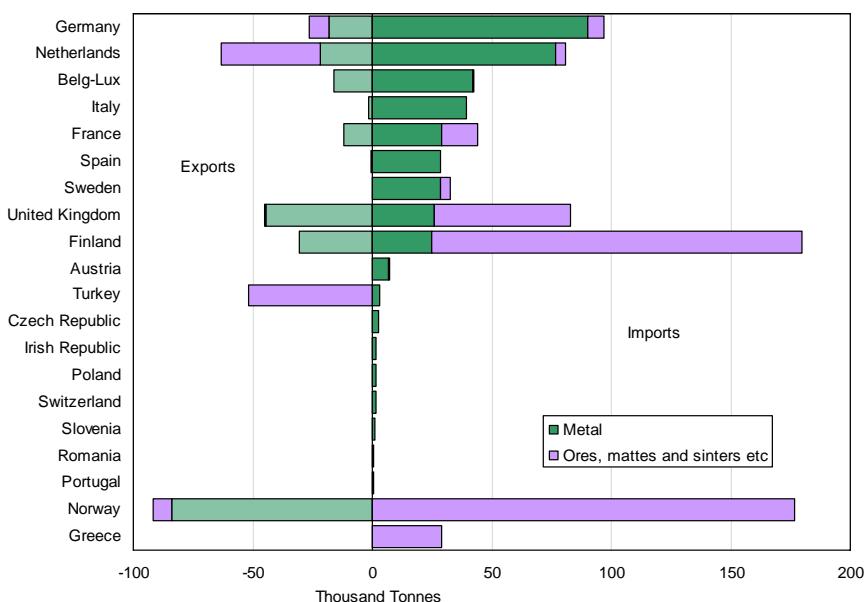
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|---------|---------|---------|---------|---------|
| Netherlands | | | | | |
| Mattes, sinters etc. | ... | 10 394 | 8 566 | 9 144 | 3 832 |
| Unwrought | 59 920 | 61 898 | 65 504 | 61 516 | 76 469 |
| Unwrought alloys | 401 | 47 | 266 | 321 | 343 |
| Scrap | 3 083 | 4 398 | 5 585 | 6 582 | 6 738 |
| Oxides | 1 728 | 6 764 | 7 683 | 4 632 | 5 654 |
| Norway | | | | | |
| Mattes, sinters etc. | 131 096 | 145 072 | 158 897 | 136 200 | 176 657 |
| Unwrought (a) | 134 | 138 | 46 | 222 | 80 |
| Poland | | | | | |
| Unwrought (a) | 2 307 | 1 561 | 1 589 | 2 207 | 1 683 |
| Portugal | | | | | |
| Unwrought (a) | 315 | 293 | 184 | 310 | 602 |
| Romania | | | | | |
| Unwrought (a) | 671 | 457 | 280 | 563 | 745 |
| Slovenia | | | | | |
| Unwrought (a) | 2 954 | 1 595 | 992 | 959 | 931 |
| Spain | | | | | |
| Unwrought (a) | 31 752 | 32 795 | 27 346 | 28 234 | 28 635 |
| Oxides | 231 | 306 | 225 | 210 | 176 |
| Sweden | | | | | |
| Mattes, sinters etc. | 6 124 | 12 476 | 4 032 | 4 051 | 4 346 |
| Unwrought | 24 547 | 24 982 | 25 423 | 27 687 | 26 931 |
| Unwrought alloys | 942 | 863 | 857 | 1 076 | 1 324 |
| Scrap | 13 495 | 18 399 | 12 543 | 10 523 | 8 946 |
| Switzerland | | | | | |
| Unwrought (a) | 1 591 | 1 417 | 1 392 | 1 333 | 1 401 |
| Turkey | | | | | |
| Unwrought (a) | 1 584 | 1 919 | 2 415 | 3 353 | 3 321 |
| Oxides | 92 | 160 | 162 | 144 | 128 |
| United Kingdom | | | | | |
| Mattes, sinters etc. | 51 963 | 52 514 | 43 968 | 64 192 | 57 492 |
| Unwrought | 47 030 | 46 610 | 34 162 | 45 264 | 24 019 |
| Unwrought alloys | 2 788 | 1 868 | 31 491 | 2 238 | 1 629 |
| Scrap | 14 963 | 25 270 | 20 038 | 8 957 | 10 927 |
| Oxides | 145 | 130 | 47 | 103 | 277 |

Note(s) :-

- (1) In this table the term 'unwrought' nickel corresponds to item 7502 of the Harmonised System which excludes all electro-plating anodes
(2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) Including alloys

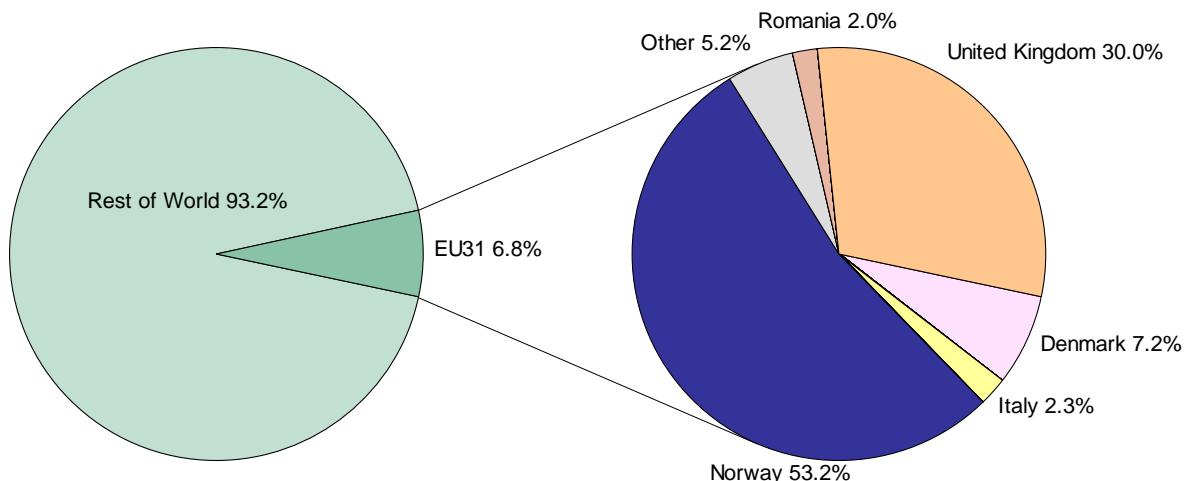
Nickel – EU31 trade in 2005



Crude petroleum

- Petroleum ('oil') is a fundamental energy resource and raw material for lubricants, olefins, polymers (plastics) and other synthetic materials.
- In 2005 a total of 3866 million tonnes of crude petroleum was produced. The largest producing country was Saudi Arabia (14%). In Europe the largest producer was Norway (53% of EU31 production). Despite the volume of oil produced from European fields (7% of the world total), the EU31 is a net importer of oil by a substantial margin.
- Global supply of crude oil tightened during 2005 placing upward pressure on prices. In 2004 the price of Brent crude averaged \$54/barrel. Prices began to rise in January from \$44/barrel before accelerating through the summer and peaking in August at over \$70/barrel. At the end of the year the price was approximately \$57/barrel.

EU31 Production of crude petroleum 2005



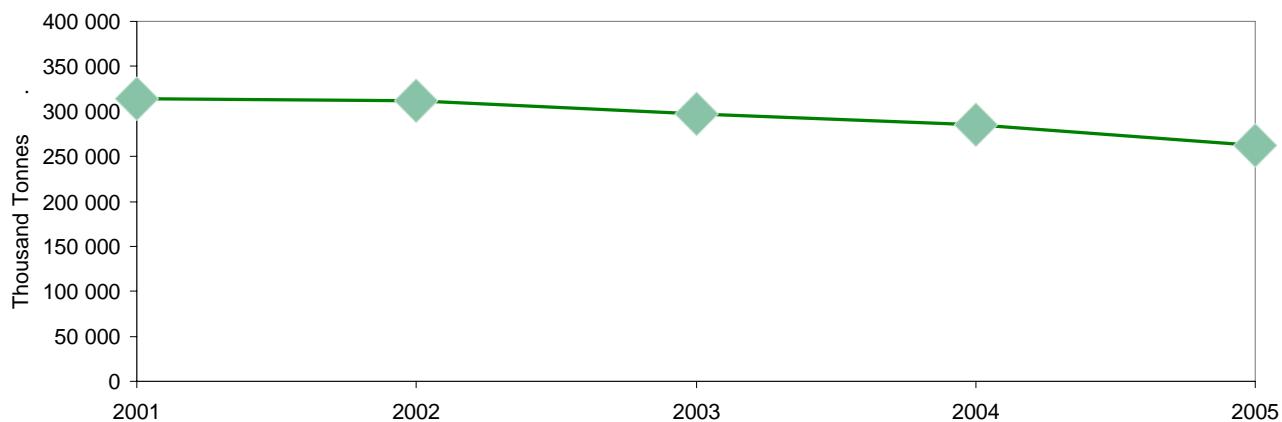
Production of crude petroleum

tonnes

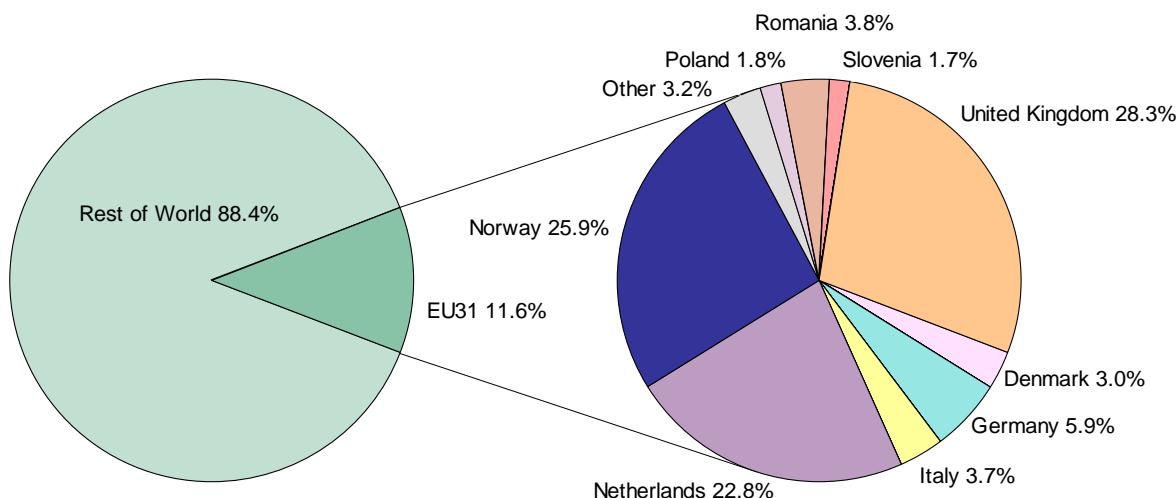
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-------------|-------------|-------------|-------------|-------------|
| Austria | 1 050 355 | 1 032 204 | 1 014 716 | 981 588 | 933 040 |
| Bulgaria | 33 888 | 33 000 | 27 900 | 33 100 | 30 000 |
| Croatia | 1 120 797 | 1 108 434 | 1 052 121 | 1 037 787 | 980 486 |
| Czech Republic | 178 000 | 253 000 | 310 000 | 299 000 | 306 000 |
| Denmark | 17 378 000 | 18 494 000 | 18 341 000 | 19 446 000 | 18 822 000 |
| France | 1 382 646 | 1 316 890 | 1 219 000 | 1 138 000 | 1 079 000 |
| Germany | 3 569 290 | 3 768 054 | 3 799 864 | 3 515 537 | 3 572 764 |
| Greece | 293 000 | 207 000 | 162 000 | 132 890 | 100 678 |
| Hungary | 1 058 060 | 1 049 770 | 1 134 245 | 1 076 844 | 947 542 |
| Italy | 4 097 000 | 5 531 000 | 5 570 000 | 5 445 000 | 6 100 000 |
| Lithuania | 470 000 | 433 700 | 382 400 | 301 874 | 216 634 |
| Netherlands | 2 263 590 | 3 073 924 | 3 076 398 | 2 890 979 | 2 268 746 |
| Norway | 162 099 000 | 157 847 000 | 153 508 000 | 150 974 000 | 139 802 000 |
| Poland | 767 004 | 727 973 | 764 806 | 886 188 | 847 844 |
| Romania | 6 011 000 | 5 810 000 | 5 651 000 | 5 462 000 | 5 212 000 |
| Slovakia | 54 115 | 51 921 | 47 953 | 42 410 | 33 150 |
| Spain | 344 074 | 326 197 | 329 171 | 262 707 | 173 253 |
| Turkey | 2 551 647 | 2 440 202 | 2 375 082 | 2 275 529 | 2 280 764 |
| United Kingdom | 109 491 000 | 108 023 000 | 99 055 000 | 88 830 000 | 78 840 000 |
| EU31 Total | 314 200 000 | 311 500 000 | 297 800 000 | 285 000 000 | 262 500 000 |

Note(s):-

(1) The figures shown in this table include natural gas liquids

EU31 Production of crude petroleum 2001 - 05**Natural gas**

- Natural gas is an increasingly important fundamental energy resource. It is used chiefly as a fuel but also a basic feedstock for chemicals such as propane and butane, and in the manufacture of ammonia and fertilisers.
- It is transported either by pipeline, often over transcontinental distances, or by ships in the form of liquefied natural gas (LNG).
- Russia (22%) and the USA (18%) are the largest producers. The UK was the largest producer in the EU31 (28%) and the fourth-largest world producer (3%).
- Gas prices have increased significantly over the last three years and supply is becoming increasingly stretched as global energy demand rapidly grows.

EU31 Production of natural gas 2005**Production of natural gas**million m³

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|--------|--------|--------|--------|--------|
| Austria | 1 954 | 2 015 | 2 029 | 2 011 | 1 654 |
| Bulgaria | 21 | 11 | 11 | 333 | 573 |
| Croatia | 2 009 | 2 122 | 2 190 | 2 198 | 2 283 |
| Czech Republic | 101 | 91 | 131 | 175 | 356 |
| Denmark | 7 930 | 7 947 | 7 555 | 8 946 | 9 908 |
| France | 1 809 | 1 751 | 1 523 | 1 325 | 1 013 |
| Germany | 21 698 | 21 556 | 22 228 | 20 411 | 19 171 |
| Greece | 32 | 36 | 27 | 23 | 16 |
| Hungary | 3 286 | 3 130 | 3 145 | 3 112 | 3 041 |
| Irish Republic | 816 | 839 | 673 | 848 | 570 |

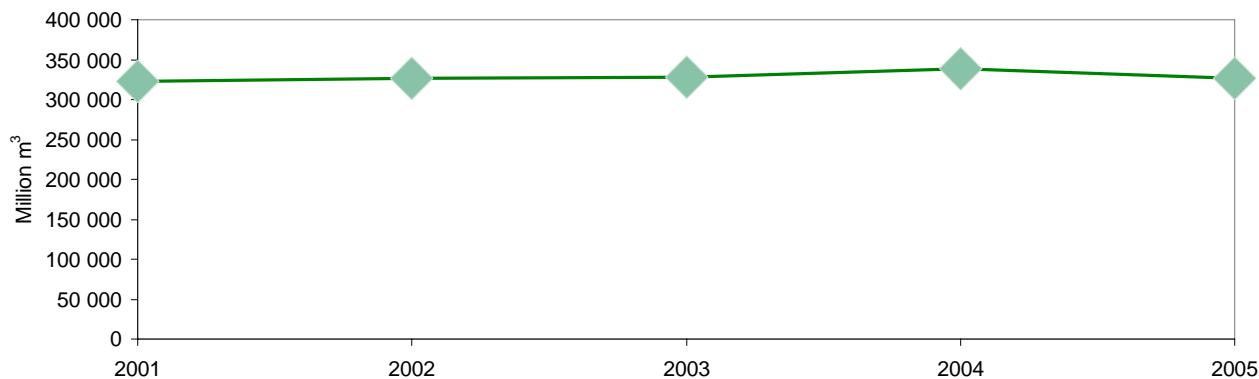
Production continued

million m³

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Italy | 15 242 | 14 623 | 13 885 | 12 961 | 11 977 |
| Netherlands | 74 323 | 71 786 | 69 114 | 81 499 | 74 460 |
| Norway | 53 895 | 65 501 | 72 905 | 78 351 | 84 702 |
| Poland | 5 179 | 5 263 | 5 315 | 5 630 | 5 742 |
| Romania | 14 090 | 13 647 | 13 174 | 13 246 | 12 472 |
| Slovakia | 212 | 212 | 201 | 178 | 151 |
| Slovenia | 6 100 | 5 704 | 4 926 | 5 500 | 5 500 |
| Spain | 557 | 553 | 268 | 370 | 174 |
| Turkey | 266 | 242 | 276 | 344 | 484 |
| United Kingdom | 112 563 | 109 694 | 107 919 | 100 847 | 92 503 |
| EU31 Total | 322 000 | 326 700 | 327 500 | 338 300 | 326 800 |

Note(s):-

(1) So far as possible the figures in this table exclude flared or reinjected gas

EU31 Production of natural gas 2001 - 05**Exports of crude petroleum**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Austria | 60 151 | ... | — | — | — |
| Belgium-Luxembourg | 328 893 | 2 319 755 | 2 263 897 | 2 967 608 | 2 616 977 |
| Croatia | 15 001 | 1 | ... | 20 000 | ... |
| Czech Republic | 118 714 | 129 275 | 155 258 | 64 315 | 57 522 |
| Denmark | 11 645 846 | 13 073 624 | 13 015 898 | 14 324 704 | 13 567 566 |
| Estonia (a) | *1 031 000 | *648 000 | *283 000 | *321 000 | *339 000 |
| France | 55 631 | 90 903 | 91 091 | 39 | 20 374 |
| Germany | 907 924 | 656 861 | 1 741 465 | 1 253 391 | 1 257 658 |
| Greece | 596 613 | 4 | — | — | — |
| Italy | 250 353 | 871 391 | 802 524 | 824 206 | 986 121 |
| Latvia | 10 999 | 10 477 | 10 162 | 19 892 | 6 085 |
| Lithuania | 349 491 | 134 180 | 273 187 | 197 709 | 148 031 |
| Netherlands | 177 964 | 849 | 54 938 | 136 202 | 145 541 |
| Norway | 146 645 926 | 139 103 257 | 135 201 186 | 129 935 579 | 119 119 538 |
| Poland | 439 625 | 450 000 | 161 074 | 138 253 | 216 256 |
| Slovakia | 16 895 | 13 013 | 16 699 | 113 305 | 30 887 |
| United Kingdom | 82 057 946 | 79 943 787 | 69 617 507 | 60 743 679 | 50 619 044 |

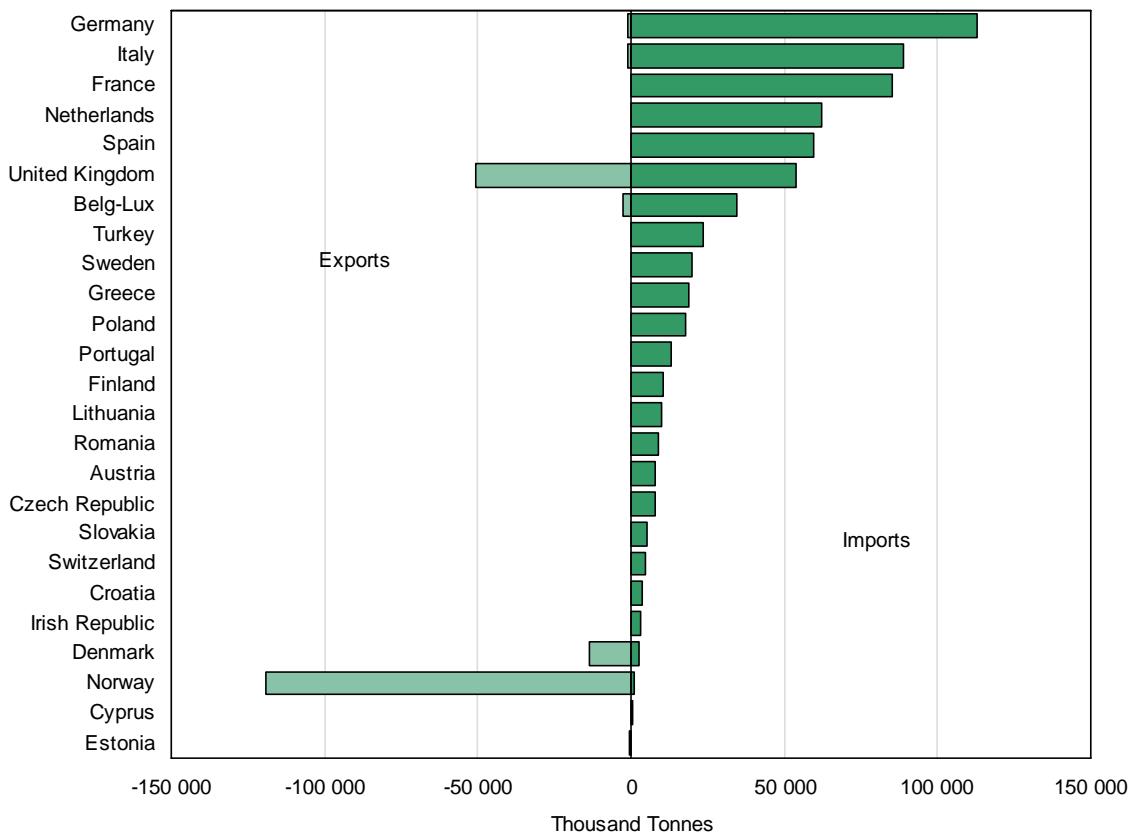
Note(s):-

(a) BGS estimates, based on known imports into certain countries

Imports of crude petroleum

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------------|-------------|-------------|-------------|-------------|
| Austria | 7 858 165 | 8 128 843 | 7 819 276 | 7 539 310 | 7 836 688 |
| Belgium-Luxembourg | 38 628 736 | 37 490 772 | 42 731 484 | 34 210 727 | 34 417 017 |
| Croatia | 4 012 709 | 4 009 452 | 3 776 305 | 4 197 554 | 3 855 070 |
| Cyprus | 1 048 256 | 1 143 649 | 838 280 | 417 475 | ... |
| Czech Republic | 6 004 685 | 5 548 002 | 7 380 375 | 6 530 733 | 7 674 771 |
| Denmark | 2 853 538 | 3 193 530 | 3 517 270 | 3 725 978 | 2 666 384 |
| Finland | 10 951 956 | 11 745 754 | 12 019 477 | 12 249 366 | 10 603 534 |
| France | 85 259 764 | 80 589 846 | 84 181 898 | 86 416 072 | 84 951 337 |
| Germany | 104 631 624 | 104 331 841 | 107 268 878 | 112 096 299 | 113 067 864 |
| Greece | 20 112 238 | 18 653 052 | 18 976 807 | 18 390 500 | 18 926 138 |
| Hungary | ... | 5 029 814 | ... | 5 001 714 | — |
| Irish Republic | 2 475 545 | 1 112 511 | 1 378 494 | 2 128 991 | 3 226 383 |
| Italy | 83 971 514 | 81 043 087 | 84 724 010 | 87 208 954 | 89 007 151 |
| Lithuania | 6 117 000 | 6 219 137 | 7 075 694 | 837 578 | 9 746 806 |
| Netherlands | 60 427 836 | 54 968 223 | 56 463 347 | 61 377 494 | 62 152 486 |
| Norway | 956 019 | 590 064 | 562 851 | 440 346 | 983 848 |
| Poland | 17 558 327 | 16 400 000 | 17 448 290 | 17 316 135 | 17 639 489 |
| Portugal | 12 517 253 | 11 635 480 | 12 544 785 | 13 081 242 | 12 941 851 |
| Romania | 5 543 644 | 5 690 063 | 5 216 636 | 7 314 284 | 8 688 818 |
| Slovakia | 5 408 523 | 5 554 324 | 5 603 952 | 5 858 911 | 5 421 866 |
| Spain | 56 824 754 | 57 489 130 | 57 578 507 | 59 343 873 | 59 510 408 |
| Sweden | 18 262 971 | 18 665 040 | 20 436 192 | 20 873 087 | 19 770 639 |
| Switzerland | 4 773 040 | 4 869 479 | 4 551 511 | 5 086 184 | 4 744 965 |
| Turkey | 23 141 640 | 21 626 643 | 24 028 666 | 23 917 019 | 23 393 477 |
| United Kingdom | 38 542 685 | 40 838 161 | 44 511 352 | 56 128 686 | 54 067 943 |

Crude petroleum – EU31 trade in 2005

Phosphate rock

- Phosphate rock is the term given to a range of phosphorus-bearing minerals that are commercially exploited. Over 90% of phosphate rock is used to produce fertilisers. The remainder is used in the manufacture of detergents, animal feedstock and many other minor applications.
- 63% of the total production of phosphate rock is from China, USA and Morocco. Morocco is the largest exporter. Finland is the only producer in the EU31, which is almost entirely dependent on imports.
- Phosphate rock (70–72% BPL, FAS Casablanca) traded at \$46/tonne in 2005.

Production of phosphate rock

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|---------|---------|---------|---------|---------|
| Finland | 767 020 | 799 814 | 799 339 | 838 000 | 823 000 |

Exports of phosphate rock

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|---------|--------|---------|---------|
| Austria | 1 320 | 906 | 1 280 | 802 | 1 |
| Belgium-Luxembourg | 43 858 | 54 563 | 75 856 | 101 115 | 108 238 |
| Finland | ... | 40 | 1 626 | 16 375 | 996 |
| France | 2 536 | 1 488 | 1 018 | 6 362 | 4 463 |
| Germany | 674 | 302 | 66 | 43 | 5 048 |
| Italy | 794 | 513 | 475 | 4 417 | 4 883 |
| Netherlands | 65 689 | 181 928 | 94 541 | 94 150 | 91 592 |
| Poland | 2 700 | 2 511 | ... | 507 | 1 |
| United Kingdom | 317 | 386 | 111 | 34 | 1 548 |

Phosphates

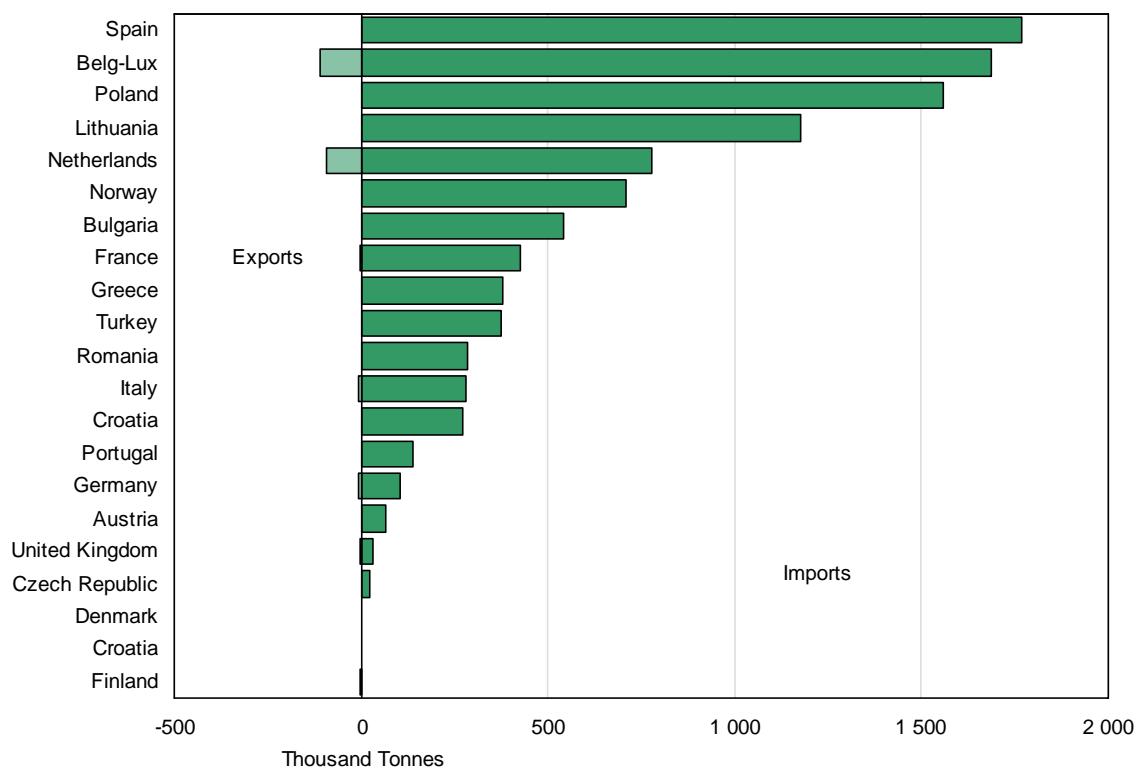
Imports of phosphate rock

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | ... | ... | 237 605 | 210 010 | 67 853 |
| Belgium-Luxembourg | 1 395 630 | 1 668 206 | 1 664 247 | 1 545 478 | 1 688 029 |
| Bulgaria | 393 280 | 490 935 | 550 013 | 515 889 | 543 637 |
| Croatia | 173 144 | 177 728 | 181 534 | 245 224 | 272 005 |
| Czech Republic | 48 539 | 27 955 | 24 299 | 24 282 | 22 633 |
| Denmark | 44 643 | 57 813 | 80 114 | 30 425 | 1 311 |
| Finland | 46 352 | 55 716 | 55 555 | 57 184 | 488 |
| France | 923 926 | 919 097 | 773 860 | 593 253 | 427 194 |
| Germany | 155 278 | 167 297 | 120 231 | 148 082 | 104 335 |
| Greece | 328 110 | 338 443 | 336 893 | 364 398 | 378 931 |
| Hungary | 14 793 | 14 730 | 9 140 | ... | 4 |
| Irish Republic | 2 144 | 9 717 | 440 | 1 159 | 219 |
| Italy | 263 295 | 278 389 | 296 497 | 359 090 | 279 693 |
| Lithuania | 485 429 | 899 042 | 1 079 502 | 1 082 901 | 1 178 816 |
| Netherlands | 822 583 | 964 035 | 922 349 | 724 960 | 776 661 |
| Norway | 638 449 | 664 834 | 666 188 | 646 319 | 710 528 |
| Poland | 1 636 053 | 1 407 541 | 1 452 726 | 1 885 350 | 1 558 007 |
| Portugal | 158 684 | 134 664 | 141 740 | 149 365 | 137 423 |
| Romania | 278 348 | 249 271 | 264 547 | 303 713 | 283 192 |
| Spain | 2 062 062 | 1 805 229 | 1 790 138 | 1 800 329 | 1 768 425 |
| Sweden | 81 983 | 66 930 | 18 346 | 129 | 156 |
| Turkey | 497 120 | 746 033 | 610 286 | 291 245 | 373 134 |
| United Kingdom | 9 223 | 10 275 | 1 242 | 11 586 | 30 177 |

Phosphates

Phosphate rock – EU31 trade in 2005



Platinum group metals

- The platinum group metals (PGMs) are platinum, palladium, rhodium, ruthenium, osmium and iridium. Of these, platinum and palladium are the most commercially significant. Platinum and palladium have important applications as catalysts (catalytic converters), and in electronics and jewellery and are also investment commodities.
- Mine production is confined to a handful of countries. The largest producers in 2005 were South Africa (59% - chiefly platinum) and Russia (30% - chiefly palladium). There is no EU31 mine production but the UK is a major exporter of refined PGMs due to its processing industry based on imported materials and recycling.
- The average annual platinum price in 2005 reached \$899.51/troy ounce, an increase of more than 6% over 2004. Palladium averaged \$203/troy ounce in 2005, a 13% decrease compared with 2004. Palladium prices have been on a downward trend since 2000 when the price was \$692/troy ounce.

Exports of platinum group metals

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-------------|-------------|-------------|-------------|-------------|
| Austria | | | | | |
| Platinum & platinum metals | £2 785 000 | £2 827 000 | £4 556 000 | £8 114 000 | £12 253 000 |
| Waste & scrap | ... | ... | £362 000 | £50 000 | £397 000 |
| Belgium-Luxembourg | | | | | |
| Platinum | 3 000 | 3 200 | 2 000 | 1 000 | 700 |
| Platinum metals | 8 300 | 7 300 | 2 100 | 4 400 | 2 100 |
| Waste & scrap | 762 100 | 319 342 | 239 700 | 245 596 | 305 700 |
| Bulgaria | | | | | |
| Waste & scrap (a) | *28 500 | *35 800 | *17 500 | *24 000 | *31 400 |
| Czech Republic | | | | | |
| Platinum & platinum metals | ... | 79 408 | (a) *22 000 | (a) *4 600 | (a) *20 600 |
| Waste & scrap | (a) *86 900 | 2 818 | 5 316 | 4 158 | 4 500 |
| Denmark | | | | | |
| Platinum & platinum metals | 751 | 115 | 208 | ... | 1 435 |
| Estonia | | | | | |
| Waste & scrap | 216 839 | 41 383 | 3 706 | 3 981 | ... |
| France | | | | | |
| Platinum | 6 900 | 5 300 | 3 800 | 2 800 | 1 700 |
| Platinum metals | 7 000 | 4 600 | 3 400 | 5 200 | 2 600 |
| Waste & scrap | 91 300 | 107 500 | 35 400 | 44 182 | 184 400 |
| Germany | | | | | |
| Platinum | 28 500 | 21 400 | 26 300 | 31 900 | 43 300 |
| Palladium | 19 600 | 40 200 | 22 000 | 15 900 | 20 800 |
| Other platinum metals | 3 400 | 4 000 | 2 900 | 4 600 | 11 100 |
| Waste & scrap | 1 040 875 | 1 067 200 | 803 500 | 815 821 | 1 648 800 |
| Irish Republic | | | | | |
| Waste & scrap | 12 292 | 22 983 | 5 544 | 13 100 | 7 900 |
| Italy | | | | | |
| Platinum | 31 775 | 3 546 | 10 430 | 6 277 | 6 555 |
| Platinum metals | 6 133 | 13 337 | 8 310 | 4 207 | 6 458 |
| Waste & scrap | 23 155 | 61 441 | 96 968 | 105 220 | 206 |
| Latvia | | | | | |
| Waste & scrap | 2 | 407 | 567 | 716 | 1 002 |
| Lithuania | | | | | |
| Waste & scrap | 9 867 | 2 982 | 7 980 | 6 019 | ... |
| Netherlands | | | | | |
| Platinum | £21 776 000 | £17 686 000 | £19 007 000 | £18 570 000 | £9 061 000 |
| Platinum metals | ... | £634 000 | £1 015 000 | £1 377 000 | £8 211 000 |
| Waste & scrap | 23 800 | 10 900 | 9 200 | 201 129 | 876 |
| Norway | | | | | |
| Platinum & platinum metals | 6 659 | 10 986 | 11 150 | 13 360 | 11 871 |
| Waste & scrap | 2 639 | 76 801 | 616 | 384 | 342 |
| Poland | | | | | |
| Platinum & platinum metals | 43 | 872 | 308 | 470 | 800 |
| Waste & scrap | 27 622 | 6 543 | 52 366 | 33 019 | 1 000 |
| Slovakia | | | | | |
| Platinum & platinum metals | ... | 257 | 310 | 308 | 8 |
| Slovenia | | | | | |
| Platinum & platinum metals | 322 | 919 | 817 | 1 083 | 3 |

Platinum Metals

Exports continued

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-----------|----------|-----------|------------|-----------|
| Spain | | | | | |
| Platinum & platinum metals | 256 | 285 | 104 | 1 054 | 152 |
| Waste & scrap | 616 | 253 | 7 479 | 1 893 | 2 892 |
| Sweden | | | | | |
| Platinum & platinum metals | £952 000 | £610 000 | £280 000 | £1 037 000 | £663 000 |
| Waste & scrap | 46 465 | 27 536 | 27 000 | 29 000 | 25 000 |
| Switzerland | | | | | |
| Platinum | 63 640 | 73 384 | 67 305 | 57 268 | 42 102 |
| Palladium | 44 317 | 73 072 | 47 110 | 61 960 | 75 105 |
| Other platinum metals | 324 | 829 | 203 | 1 703 | 2 047 |
| Waste & scrap | 49 289 | 122 380 | 85 301 | 118 241 | 235 630 |
| United Kingdom | | | | | |
| Platinum | 31 859 | 69 955 | 37 874 | 44 598 | 41 500 |
| Palladium | 22 845 | 19 176 | 27 669 | 61 198 | 51 807 |
| Other platinum metals | 5 604 | 6 002 | 9 631 | 12 610 | 17 852 |
| | 1 124 414 | 914 126 | 1 862 845 | 2 681 379 | 2 881 226 |

Note(s):-

- (1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys
- (2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (3) See explanatory notes at the front of the volume regarding currency conversion

(a) BGS estimates, based on known imports into certain countries

Imports of platinum group metals

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|--------------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Platinum & platinum metals | 600 | 2 900 | 9 400 | 9 400 | 7 200 |
| Belgium-Luxembourg | | | | | |
| Platinum | ... | 3 044 | 2 481 | 19 590 | ... |
| Platinum metals | ... | 7 545 | 11 324 | 235 | 1 978 |
| Waste & scrap | £129 469 000 | ... | ... | ... | ... |
| Croatia | | | | | |
| Platinum & platinum metals | 2 989 | 604 | ... | 839 | 12 320 |
| Cyprus | | | | | |
| Platinum & platinum metals | 110 | 40 | 35 | 78 | 97 |
| Czech Republic | | | | | |
| Platinum & platinum metals | ... | 1 147 | 5 249 | ... | 1 289 |
| Denmark | | | | | |
| Platinum & platinum metals | 381 | 530 | ... | 1 324 | 2 076 |
| Estonia | | | | | |
| Waste & scrap | 8 171 | 8 790 | 7 250 | ... | ... |
| Finland | | | | | |
| Platinum & platinum metals | 248 | 296 | 773 | 231 | 495 |
| France | | | | | |
| Platinum | 12 600 | 8 500 | 5 100 | 6 200 | 5 396 |
| Platinum metals | 22 800 | 12 100 | 15 400 | 17 900 | 3 432 |
| Waste & scrap | 104 000 | 200 100 | 334 300 | 40 700 | 55 600 |
| Germany | | | | | |
| Platinum | 39 800 | 34 300 | 44 800 | 39 600 | 58 400 |
| Palladium | 25 200 | 45 000 | 31 600 | 20 700 | 56 000 |
| Other platinum metals | 4 600 | 5 600 | 6 100 | 6 400 | 9 100 |
| Waste & scrap | 5 274 800 | 4 500 100 | 3 837 500 | 3 713 700 | 6 574 600 |
| Greece | | | | | |
| Platinum & platinum metals | 1 001 | 449 | 156 | 179 | 181 |
| Hungary | | | | | |
| Platinum & platinum metals | 117 | 140 | 274 | 168 | 300 |
| Irish Republic | | | | | |
| Platinum & platinum metals | 3 694 | 2 342 | 1 829 | 2 620 | 3 865 |

Imports continued

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-------------|-------------|-------------|-------------|------------|
| Italy | | | | | |
| Platinum | 9 394 | 17 518 | 10 551 | 12 087 | 15 586 |
| Platinum metals | 30 150 | 26 602 | 20 085 | 21 430 | 19 183 |
| Waste & scrap | 988 | 5 | 39 | 278 | 20 085 |
| Netherlands | | | | | |
| Platinum | £16 677 000 | £13 377 000 | £14 194 000 | £11 484 000 | £1 107 000 |
| Platinum metals | £7 361 000 | £8 134 000 | £5 463 000 | £6 930 000 | £1 093 000 |
| Norway | | | | | |
| Platinum & platinum metals | 1 231 | 984 | 747 | 973 | 1 076 |
| Waste & scrap | 641 | 840 | 87 | 59 | 998 |
| Poland | | | | | |
| Platinum & platinum metals | 293 | 208 | 402 | ... | ... |
| Slovenia | | | | | |
| Platinum & platinum metals | 1 411 | 1 018 | 1 033 | 430 | 12 262 |
| Spain | | | | | |
| Platinum & platinum metals | 4 830 | 3 311 | 1 612 | 1 402 | 13 799 |
| Waste & scrap | 166 | 32 | 31 | 298 | 122 |
| Sweden | | | | | |
| Platinum & platinum metals | £5 430 000 | £6 134 000 | £6 531 000 | £4 985 000 | £6 513 000 |
| Waste & scrap | 1 000 | 265 | 339 000 | 273 000 | 577 000 |
| Switzerland | | | | | |
| Platinum | 68 461 | 56 039 | 69 111 | 47 742 | 51 377 |
| Palladium | 94 074 | 106 412 | 54 805 | 96 530 | 46 565 |
| Other platinum metals | 538 | 1 063 | 816 | 3 725 | 780 |
| Waste & scrap | 19 435 | 49 569 | 129 698 | 161 433 | 156 229 |
| Turkey | | | | | |
| Platinum & platinum metals | 321 | 393 | 378 | 231 | 216 |
| United Kingdom | | | | | |
| Platinum | 17 825 | 12 030 | 13 827 | 47 735 | 51 553 |
| Palladium | 19 724 | 22 072 | 48 106 | 24 666 | 30 576 |
| Other platinum metals | 5 602 | 4 772 | 8 636 | 8 267 | 7 134 |
| Waste & scrap | 729 250 | 775 673 | 367 327 | 617 417 | 1 271 315 |

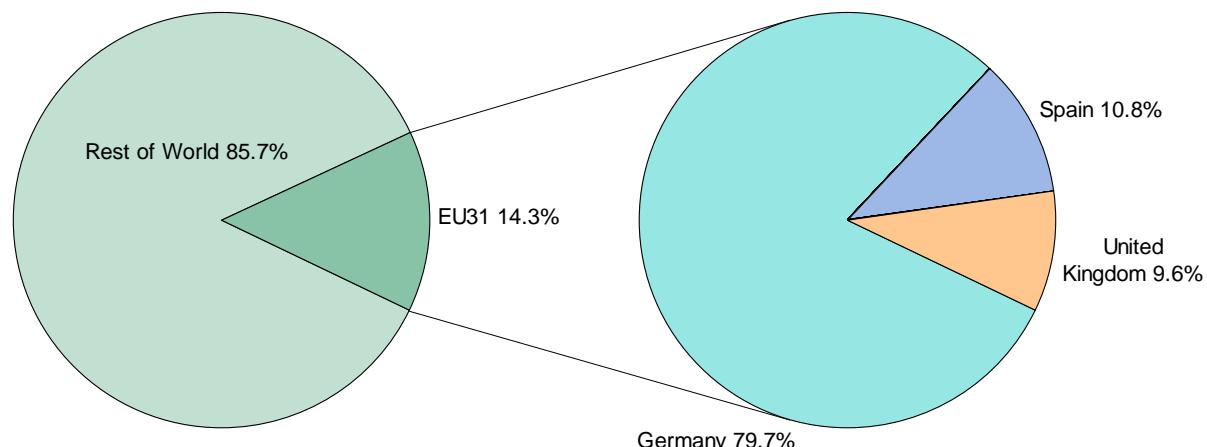
Note(s) :-

- (1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys
- (2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (3) See explanatory notes at the front of the volume regarding currency conversion

Potash

- Potash is the name for a range of potassium-bearing minerals and processed chemical products. Potassium is essential in fertilisers and is widely used in the chemicals industry and in explosives.
- Economic potash deposits are rare. Only fourteen countries produced potash in 2005, of which Canada, Russia, Belarus and Germany generated 79% of world production. The EU31 produced 4.6 million tonnes of potash in 2005 (14% of world production).
- World potash market prices have been relatively stable for the past decade. However they increased in 2004 and higher prices were maintained during 2005. At the beginning of 2005 spot prices for standard grade potash, fob Vancouver were in the range of \$145-160/t before surging upwards to \$160-190/t in the middle of the year and remaining at this level.

EU31 Production of potash 2005

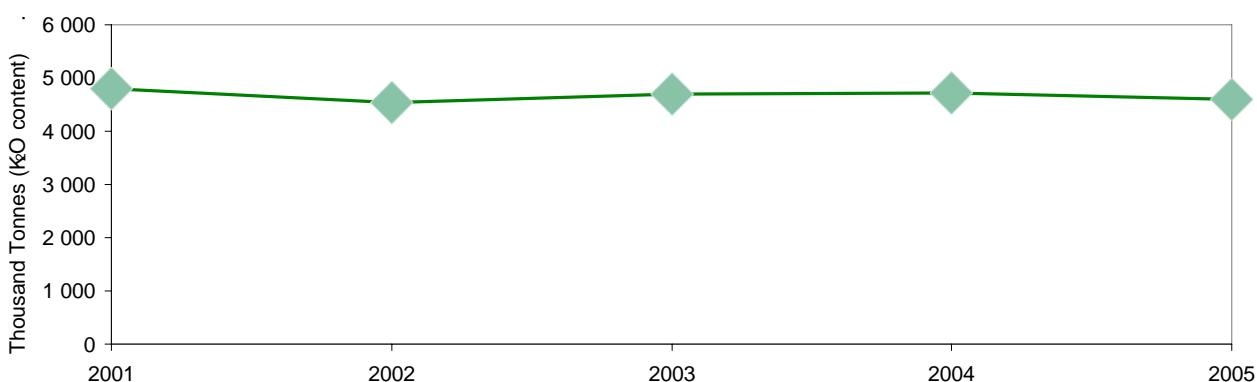


Production of potash

tonnes (K₂O content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| France | | | | | |
| Potassic salts | 244 000 | 128 000 | — | — | — |
| Germany | | | | | |
| Potassic salts | 3 548 665 | 3 471 763 | 3 563 332 | 3 626 510 | 3 663 829 |
| Spain | | | | | |
| Chloride | 470 933 | 406 571 | 505 527 | 553 210 | 494 592 |
| United Kingdom | | | | | |
| Chloride | 531 900 | 540 100 | 621 400 | 539 500 | 439 200 |
| EU31 Total | 4 795 000 | 4 546 000 | 4 690 000 | 4 719 000 | 4 598 000 |

EU31 Production of potash 2001 - 05



Exports of potash

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-------------|-------------|-------------|-------------|-----------|
| Belgium-Luxembourg | | | | | |
| Fertiliser salts | 3 172 | 5 313 | 1 193 | 441 | 127 |
| Sulphate (b) | *399 600 | *444 600 | *490 000 | *685 000 | *598 000 |
| Chloride | 184 145 | 211 383 | 142 227 | 140 950 | 116 862 |
| Other potassic fertilisers | 4 561 | 5 803 | 4 756 | 7 993 | 9 773 |
| Czech Republic | | | | | |
| Potassic fertilisers | 253 | 541 | 808 | 2 416 | 3 463 |
| Finland | | | | | |
| Sulphate | (b) *14 000 | (b) *33 300 | (b) *51 300 | (b) *34 900 | 33 484 |
| Other potassic fertilisers | 4 368 | 3 075 | 710 | 1 094 | 38 993 |
| France | | | | | |
| Sulphate | 508 | 740 | 860 | 8 248 | 54 235 |
| Chloride | 134 868 | 95 248 | 41 600 | 19 459 | 6 376 |
| Other potassic fertilisers | 988 | 536 | 660 | 1 271 | 841 |
| Germany | | | | | |
| Fertiliser salts (a) (c) | 2 916 428 | 2 998 738 | 3 103 009 | 3 077 154 | 3 235 651 |
| Greece | | | | | |
| Potassic fertilisers | 451 | 2 119 | 2 107 | 4 083 | 2 894 |
| Hungary | | | | | |
| Potassic fertilisers | 6 617 | 221 | 61 | 2 512 | 1 253 |
| Italy | | | | | |
| Potassic fertilisers | 804 | 1 502 | 2 415 | 1 169 | 1 270 |
| Lithuania | | | | | |
| Potassic fertilisers | 9 243 | 7 705 | 7 128 | 8 037 | 10 463 |
| Netherlands | | | | | |
| Chloride | 74 347 | 243 242 | 219 413 | 197 731 | 163 072 |
| Norway | | | | | |
| Potassic fertilisers | 12 006 | 3 869 | 10 964 | 10 107 | 7 611 |
| Spain | | | | | |
| Sulphate | 57 091 | 15 635 | 11 628 | 3 958 | 2 832 |
| Chloride | 418 155 | 350 315 | 502 348 | 675 140 | 514 042 |
| Sweden | | | | | |
| Sulphate | 141 298 | 136 917 | 127 687 | 70 066 | 54 841 |
| United Kingdom | | | | | |
| Chloride | *530 000 | *440 000 | *630 000 | *512 000 | *353 000 |
| Other potassic fertilisers | 1 141 | 740 | 609 | 662 | 705 |

Note(s):-

(a) K₂O content

(b) BGS estimates, based on known imports into certain countries

(c) Including sulphate, chloride and other potassic fertilisers

Imports of potash

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Fertiliser salts | 17 357 | 19 531 | 20 424 | 23 040 | 23 685 |
| Chloride | 3 618 | 5 318 | 159 216 | 145 757 | 144 234 |
| Other potassic fertilisers | 5 874 | 4 685 | 17 997 | 22 629 | 15 713 |
| Belgium-Luxembourg | | | | | |
| Fertiliser salts | 22 677 | 23 295 | 24 355 | 26 328 | 17 331 |
| Sulphate | 183 131 | 203 971 | 213 779 | 212 176 | 260 839 |
| Chloride | 1 014 654 | 1 175 981 | 1 163 936 | 1 276 732 | 1 211 640 |
| Other potassic fertilisers | 18 801 | 19 044 | 21 700 | 22 357 | 17 698 |
| Bulgaria | | | | | |
| Potassic fertilisers | 25 284 | 11 724 | 3 453 | 4 725 | 7 794 |
| Croatia | | | | | |
| Chloride | 144 977 | 124 881 | 146 692 | 168 015 | 131 567 |
| Czech Republic | | | | | |
| Potassic fertilisers | 92 242 | 83 492 | 78 801 | 111 694 | 101 506 |
| Denmark | | | | | |
| Sulphate | 11 689 | 7 028 | 14 654 | 18 006 | 2 683 |
| Chloride | 135 815 | 146 234 | 166 236 | 119 153 | 38 706 |
| Other potassic fertilisers | 12 535 | 13 373 | 11 254 | 13 099 | 29 605 |

Potash

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-------------|-----------|-----------|-----------|-----------|
| Estonia | | | | | |
| Potassic fertilisers | 24 891 | *18 000 | 19 986 | 23 469 | 15 248 |
| Finland | | | | | |
| Chloride (a) | 168 200 | 156 100 | 177 100 | 192 600 | 148 400 |
| France | | | | | |
| Fertiliser salts | 1 660 | 2 337 | 1 807 | 1 988 | 1 401 |
| Sulphate | 80 698 | 93 051 | 90 543 | 77 441 | 70 705 |
| Chloride | 1 444 445 | 1 463 860 | 1 755 346 | 1 866 149 | 1 492 129 |
| Other potassic fertilisers | 25 096 | 25 410 | 32 600 | 31 959 | 29 488 |
| Germany | | | | | |
| Chloride | 86 916 | 89 067 | 85 597 | 97 924 | 75 483 |
| Other potassic fertilisers | 5 724 | 6 206 | 5 810 | 4 996 | 10 029 |
| Greece | | | | | |
| Sulphate | 25 433 | 59 315 | 55 208 | 92 816 | 28 334 |
| Chloride | 27 415 | 32 834 | 36 469 | 29 191 | 46 667 |
| Other potassic fertilisers | 2 251 | 3 057 | 5 256 | 6 411 | 4 387 |
| Hungary | | | | | |
| Potassic fertilisers | 112 995 | 124 330 | 121 815 | 143 465 | 141 013 |
| Irish Republic | | | | | |
| Chloride | 36 186 | 17 160 | 3 790 | 30 456 | 113 476 |
| Other potassic fertilisers | 2 170 | 2 483 | 6 156 | 4 924 | 5 747 |
| Italy | | | | | |
| Sulphate | 87 150 | 84 724 | 102 855 | 96 904 | 96 415 |
| Chloride | 425 575 | 445 906 | 422 469 | 392 833 | 334 324 |
| Other potassic fertilisers | 17 701 | 21 604 | 16 491 | 29 902 | 13 203 |
| Latvia | | | | | |
| Potassic fertilisers | 20 692 | 17 241 | 22 764 | 26 368 | 21 343 |
| Lithuania | | | | | |
| Fertiliser salts | 6 264 | ... | ... | ... | ... |
| Chloride | 116 995 | 141 946 | 160 334 | 172 622 | 123 782 |
| Other potassic fertilisers | 450 | 6 767 | 7 384 | 12 978 | 12 086 |
| Netherlands | | | | | |
| Sulphate | ... | 12 505 | 12 777 | 23 765 | 26 208 |
| Chloride | (b) 215 193 | 180 033 | 467 219 | 387 637 | 445 767 |
| Other potassic fertilisers | ... | 4 949 | 6 018 | 4 321 | 2 486 |
| Norway | | | | | |
| Sulphate | 211 169 | 200 407 | 249 307 | 267 653 | 247 379 |
| Chloride | 331 063 | 339 431 | 310 954 | 309 061 | 306 369 |
| Poland | | | | | |
| Fertiliser salts | ... | 1 245 | 948 | 2 264 | 621 |
| Sulphate | ... | 18 752 | 19 967 | 24 143 | 21 770 |
| Chloride | (c) 742 114 | 754 473 | 821 469 | 1 098 679 | 1 041 798 |
| Other potassic fertilisers | ... | 2 877 | 5 223 | 4 174 | 4 726 |
| Portugal | | | | | |
| Sulphate | 1 950 | 2 144 | 4 457 | 7 526 | 3 631 |
| Chloride | 55 972 | 73 748 | 55 775 | 79 232 | 65 682 |
| Other potassic fertilisers | 737 | 1 570 | 1 630 | 1 752 | 2 774 |
| Romania | | | | | |
| Sulphate | 71 | 2 174 | 41 698 | 8 070 | 757 |
| Chloride | 76 450 | 58 108 | 33 920 | 53 008 | 41 974 |
| Slovakia | | | | | |
| Potassic fertilisers | 821 | 39 452 | 30 582 | 36 256 | 28 913 |
| Spain | | | | | |
| Sulphate | 32 543 | 71 719 | 37 444 | 48 174 | 47 561 |
| Chloride | 268 306 | 245 620 | 249 881 | 269 278 | 243 017 |
| Other potassic fertilisers | 2 862 | 9 304 | 10 427 | 22 019 | 4 665 |
| Sweden | | | | | |
| Sulphate | 3 958 | 4 755 | 884 | 2 819 | 4 911 |
| Chloride | 54 531 | 44 086 | 33 748 | 68 457 | 43 106 |
| Other potassic fertilisers | 4 651 | 2 285 | 9 862 | 4 409 | 1 119 |
| Switzerland | | | | | |
| Sulphate | 1 815 | 2 496 | 2 621 | 2 170 | 3 325 |
| Chloride | 19 144 | 23 053 | 15 792 | 19 185 | 18 971 |
| Other potassic fertilisers | 1 922 | 3 983 | 3 721 | 3 039 | 3 411 |
| Turkey | | | | | |
| Sulphate | 26 753 | 31 362 | 51 467 | 59 381 | 39 198 |
| Chloride | 82 849 | 111 780 | 107 412 | 130 748 | 135 433 |

Imports continued

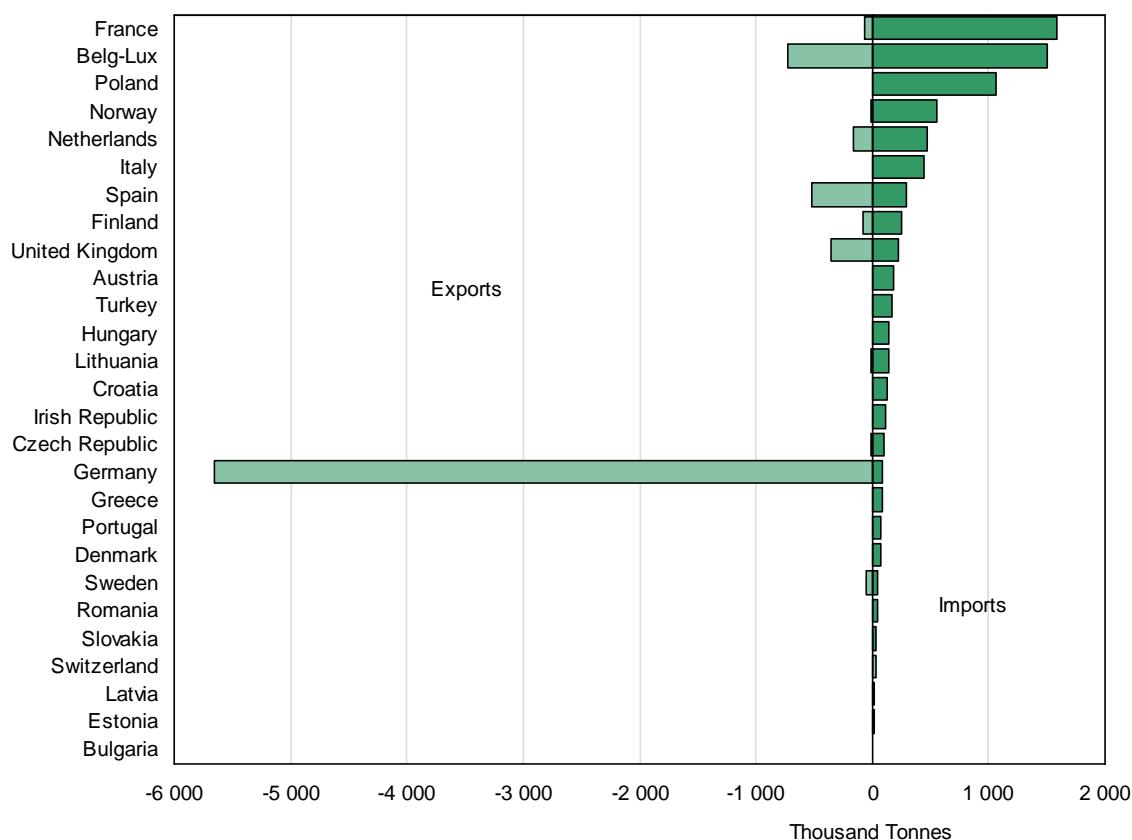
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|---------|---------|---------|---------|---------|
| United Kingdom | | | | | |
| Fertiliser salts | 16 154 | 19 366 | 12 751 | 9 204 | 9 517 |
| Chloride | 335 398 | 372 031 | 246 164 | 207 056 | 198 893 |
| Other potassic fertilisers | 14 506 | 8 804 | 5 439 | 12 383 | 13 151 |

Note(s) :-

- (a) K₂O content
- (b) Including sulphate
- (c) Including sulphate and fertiliser salts

Potash – EU31 trade in 2005



Rare earth minerals

- Rare earth elements (REE), which occur chiefly in the minerals bastnaesite and monazite, are a group of 15 metallic elements of which cerium, lanthanum and neodymium are the most commonly used. Rare earths are widely used in automotive catalysts, as metallurgical additives and in glass and ceramics.
- Production of rare earths is limited to only five countries of which China is the largest producer (>90%) and exporter. There is no EU31 production, thus Europe is entirely import dependent.
- Despite the limited production base, REE prices are remarkably stable. Through 2005, bastnaesite concentrate (70% leached) traded at \$2.25/lb rare earth oxides (REO). Yttria (99.99% Y_2O_3) traded between \$5–\$12/kg. The price for lanthanum oxide (99%) was \$1.9/kg, a decrease from 2004.

Exports of rare earths

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-------|------------|-------|-------|-------|
| Austria | | | | | |
| Cerium compounds | ... | (a) *2 500 | 1 750 | 1 564 | 1 980 |
| Other rare earth compounds | ... | (a) *7 000 | 6 144 | 6 415 | 6 449 |
| Metals | ... | ... | 417 | 456 | 421 |
| Belgium-Luxembourg | | | | | |
| Rare earth compounds | 1 060 | 452 | 743 | 721 | 413 |
| Ferro-cerium & other pyrophoric alloys | 9 | 7 | 2 | 0 | ... |
| Metals | 265 | 160 | 158 | 237 | 187 |
| Estonia | | | | | |
| Rare earth compounds | 784 | 4 156 | 2 129 | 1 064 | 2 319 |
| Metals | 5 | ... | 30 | 14 | 3 |
| France | | | | | |
| Rare earth compounds | 638 | 314 | 1 660 | 8 588 | 2 007 |
| Ferro-cerium & other pyrophoric alloys | 105 | 94 | 109 | 125 | 32 |
| Metals | 26 | 231 | 58 | 65 | 7 |
| Germany | | | | | |
| Rare earth compounds | 225 | 102 | 115 | 108 | 123 |
| Metals | 16 | 8 | 10 | 4 | 1 |
| Irish Republic | | | | | |
| Rare earth compounds | 182 | 64 | 107 | 85 | 14 |
| Ferro-cerium & other pyrophoric alloys | 142 | ... | 362 | ... | ... |
| Italy | | | | | |
| Metals | 18 | 19 | 15 | 81 | 168 |
| Netherlands | | | | | |
| Rare earth compounds | 68 | 53 | 95 | 87 | 171 |
| Ferro-cerium & other pyrophoric alloys | 2 | 14 | ... | ... | 0 |
| Metals | 15 | 17 | 58 | 124 | 13 |
| Spain | | | | | |
| Ferro-cerium & other pyrophoric alloys | 56 | 85 | ... | ... | ... |
| United Kingdom | | | | | |
| Cerium compounds | 415 | 88 | 118 | 47 | 121 |
| Other rare earth compounds | 329 | 1 128 | 1 105 | 1 157 | 1 189 |
| Ferro-cerium & other pyrophoric alloys | 9 | 19 | 768 | 197 | 2 |
| Metals | 51 | 148 | 16 | 10 | 26 |

Note(s):-

(1) Rare earths are here taken to include yttrium and scandium

(a) BGS estimates, based on known imports into certain countries

Imports of rare earths

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|--------|-------|--------|--------|-------|
| Austria | | | | | |
| Cerium compounds | 2 287 | 2 025 | 2 810 | 2 034 | 3 055 |
| Other rare earth compounds | 5 534 | 3 128 | 3 062 | 3 973 | 2 685 |
| Metals | 409 | 324 | 457 | 463 | 374 |
| Belgium-Luxembourg | | | | | |
| Cerium compounds | 831 | 639 | 843 | 615 | 411 |
| Other rare earth compounds | 375 | 126 | 143 | 287 | 139 |
| Ferro-cerium & other pyrophoric alloys | 89 | 30 | ... | ... | ... |
| Metals | 279 | 225 | 195 | 226 | 252 |
| Czech Republic | | | | | |
| Rare earth compounds | ... | 212 | 177 | 92 | 198 |
| Denmark | | | | | |
| Other rare earth compounds | ... | ... | ... | ... | 16 |
| Estonia | | | | | |
| Rare earth compounds | 3 | 609 | 1 734 | 3 208 | 4 317 |
| France | | | | | |
| Cerium compounds | 15 049 | 9 914 | 10 315 | 11 710 | 7 105 |
| Other rare earth compounds | 1 407 | 382 | 1 480 | 1 037 | 585 |
| Ferro-cerium & other pyrophoric alloys | 14 | 29 | 2 | 1 | 5 |
| Metals | 230 | 169 | 279 | 251 | 322 |
| Germany | | | | | |
| Cerium compounds | 1 351 | 1 208 | 1 115 | 1 082 | 1 082 |
| Other rare earth compounds | 7 555 | 7 811 | 7 810 | 7 776 | 6 961 |
| Ferro-cerium & other pyrophoric alloys | 27 | 15 | ... | 214 | 6 |
| Metals | 564 | 218 | 358 | 285 | 402 |
| Greece | | | | | |
| Metals | ... | ... | ... | ... | 138 |
| Hungary | | | | | |
| Rare earth compounds | 216 | 202 | 114 | 158 | ... |
| Irish Republic | | | | | |
| Rare earth compounds | 46 | 44 | 245 | 74 | 32 |
| Metals | 66 | 63 | 64 | 4 | 14 |
| Italy | | | | | |
| Rare earth compounds | 669 | 637 | 656 | 932 | 987 |
| Ferro-cerium & other pyrophoric alloys | 3 | 23 | 1 | 1 | 17 |
| Metals | 17 | 4 | 102 | 108 | 38 |
| Netherlands | | | | | |
| Cerium compounds | 138 | 44 | 135 | 103 | 141 |
| Other rare earth compounds | 3 793 | 1 380 | 2 222 | 2 254 | 1 879 |
| Ferro-cerium & other pyrophoric alloys | 406 | 27 | 2 | 7 | 3 |
| Metals | 57 | 25 | 38 | 10 | 14 |
| Norway | | | | | |
| Metals | 775 | 558 | 713 | 702 | 544 |
| Poland | | | | | |
| Rare earth compounds | 70 | 77 | 245 | 61 | 118 |
| Metals | 1 | 1 | ... | 3 | 6 |
| Slovenia | | | | | |
| Metals | 74 | 71 | 80 | 107 | 139 |
| Spain | | | | | |
| Rare earth compounds | 522 | 523 | 548 | 692 | 824 |
| Ferro-cerium & other pyrophoric alloys | 44 | 28 | 87 | ... | 8 |
| Metals | 59 | 92 | 90 | 84 | 20 |
| Sweden | | | | | |
| Rare earth compounds | ... | ... | 75 | 58 | 26 |
| Metals | 28 | 39 | 48 | 56 | 41 |
| Switzerland | | | | | |
| Rare earth compounds | ... | ... | ... | ... | 34 |

Rare Earths

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--|-------|-------|-------|-------|-------|
| Turkey | | | | | |
| Rare earth compounds | 104 | 155 | 201 | 171 | 155 |
| Ferro-cerium & other pyrophoric alloys | 1 | ... | ... | 253 | ... |
| United Kingdom | | | | | |
| Cerium compounds | 2 227 | 3 070 | 2 519 | 1 914 | 2 324 |
| Other rare earth compounds | 403 | 491 | 471 | 775 | 775 |
| Ferro-cerium & other pyrophoric alloys | 1 | 34 | 1 | 9 | 19 |
| Metals | 172 | 64 | 115 | 135 | 166 |

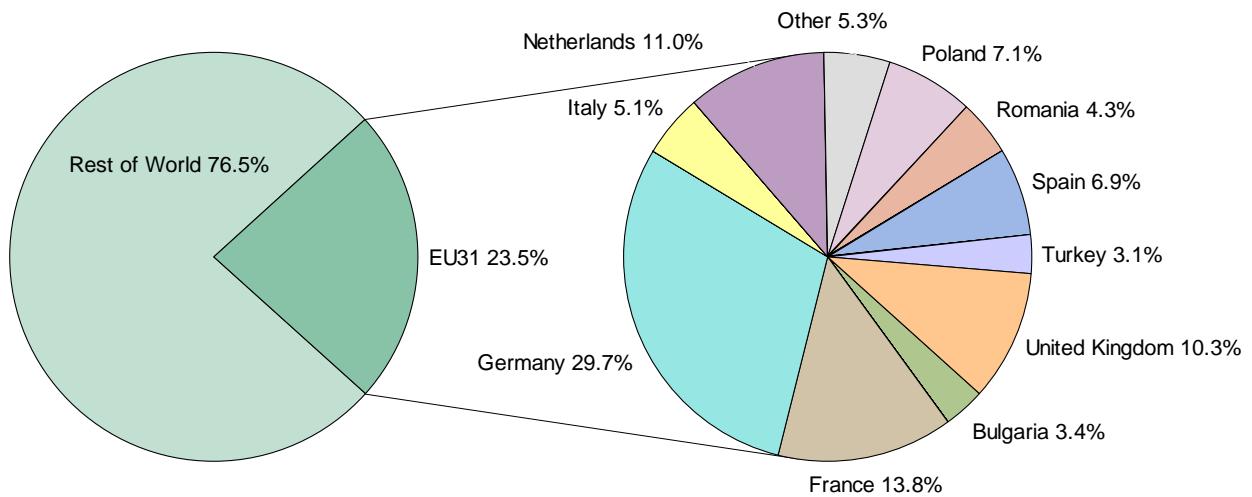
Note(s) :-

(1) Rare earths are here taken to include yttrium and scandium

Salt

- Salt (sodium chloride) is a fundamental chemical of life. However, human consumption accounts for a small fraction of salt usage. Industrial use is far higher, particularly in the chemical industry as a source of soda and chlorine. Salt is also used to 'grit' roads to prevent the formation of ice between 0°C and -6°C.
- Most countries in the world have some salt production from rock salt, brine or seawater. In 2005 the largest producer was USA (19%). In Europe the largest producer was Germany (30% of total EU31 production).
- Because of the wide availability of salt, markets tend to be very stable. Ground rock salt in 15–20 tonne lots, delivered to the UK, traded between £20–£30/tonne.

EU31 Production of salt 2005



Production of salt

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Rock salt | 1 384 | 1 491 | 1 610 | 1 228 | 1 497 |
| Salt in brine | 646 000 | 641 634 | 723 286 | 745 670 | *745 000 |
| Bulgaria | 1 931 000 | 1 800 000 | 1 882 000 | 1 900 000 | 1 900 000 |
| Croatia | 32 585 | 30 483 | 32 533 | 32 723 | 36 970 |
| Denmark | 587 000 | *590 000 | *600 000 | *600 000 | *600 000 |
| France | | | | | |
| Rock salt | 596 000 | 434 000 | 320 000 | 406 000 | 494 000 |
| Brine salt | 1 452 000 | 1 456 000 | 1 409 000 | 1 433 000 | 1 468 000 |
| Salt in brine | 4 023 000 | 4 056 000 | 4 351 000 | 4 408 000 | 4 750 780 |
| Sea salt | 1 536 000 | 848 000 | 1 302 000 | 1 365 000 | 1 026 000 |
| Germany | | | | | |
| Rock salt | 5 326 000 | 6 134 000 | 6 178 000 | 7 268 000 | 8 258 000 |
| Brine salt | 1 211 000 | 1 249 000 | 1 123 000 | 974 000 | 1 006 000 |
| Salt in brine | 6 196 000 | 6 310 000 | 6 668 000 | 7 212 000 | 7 449 000 |
| Greece | 208 776 | 126 118 | 192 161 | 187 522 | 198 024 |
| Italy | | | | | |
| Rock salt & brine salt | 3 301 173 | 3 342 992 | 2 922 251 | 2 876 469 | ... |
| Netherlands | 5 717 000 | 5 773 000 | 5 980 000 | 5 896 000 | 6 155 000 |
| Poland | | | | | |
| Rock salt | 786 609 | 838 858 | 847 880 | 1 099 072 | 1 123 219 |
| Brine salt | 2 688 929 | 2 719 131 | 2 790 996 | 2 940 169 | 2 889 941 |
| Portugal | | | | | |
| Rock salt | 625 785 | 604 969 | 602 035 | 661 704 | ... |
| Sea salt | 76 653 | 40 139 | 86 603 | 75 400 | 92 495 |
| Romania | 2 225 052 | 2 257 886 | 2 416 970 | 2 399 956 | 2 442 640 |
| Slovakia | 123 000 | 97 400 | 133 100 | 121 600 | 105 047 |
| Slovenia | 2 000 | 5 200 | 3 632 | 2 852 | 803 |
| Spain | | | | | |
| Rock salt | 2 319 800 | 2 559 760 | 2 562 832 | 2 656 904 | 2 500 000 |
| Sea salt | 1 420 000 | 1 234 679 | 1 327 108 | 1 227 625 | 1 250 000 |
| Other salt | 100 000 | 97 945 | 97 730 | 108 733 | 100 000 |

Salt

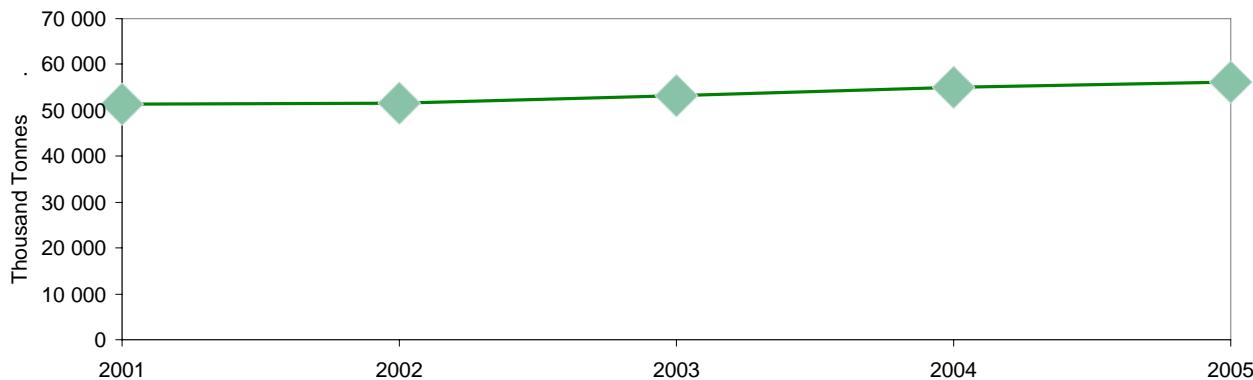
| Production continued | tonnes | | | | |
|----------------------|------------|------------|------------|------------|------------|
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
| Switzerland | 384 000 | 400 000 | 461 000 | 486 000 | 539 000 |
| Turkey | | | | | |
| Rock salt | 46 362 | 55 305 | 10 205 | 6 100 | 512 |
| Sea salt | 522 364 | 411 646 | 556 652 | 582 440 | 529 235 |
| Other salt | 1 202 025 | 1 729 686 | 1 675 915 | 1 569 178 | 1 196 486 |
| United Kingdom | | | | | |
| Rock salt | *1 900 000 | *1 500 000 | *1 700 000 | *2 000 000 | *2 000 000 |
| Brine salt | *1 100 000 | *1 000 000 | *1 000 000 | *1 000 000 | *1 000 000 |
| Salt in brine (a) | *3 000 000 | *3 200 000 | *3 200 000 | *2 800 000 | *2 800 000 |
| EU31 Total | 51 300 000 | 51 500 000 | 53 200 000 | 55 000 000 | 56 200 000 |

Note(s):-

- (1) This table does not include production of refined salt
- (2) Salt is known to be produced in many countries for which statistics are not available.

(a) Used for purposes other than salt-making

EU31 Production of salt 2001 - 05



Exports of salt

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | ... | ... | 253 791 | 183 850 | 199 133 |
| Belgium-Luxembourg | 68 728 | 129 726 | 117 806 | 105 680 | 121 103 |
| Bulgaria | 1 898 | 4 938 | 2 625 | 8 586 | 10 090 |
| Croatia | 1 609 | 4 242 | 5 530 | 9 226 | 5 688 |
| Cyprus | 236 | 1 729 | 508 | 559 | 635 |
| Czech Republic | 7 135 | 7 768 | 10 490 | 12 986 | 13 833 |
| Denmark | 327 344 | 340 177 | 376 794 | 350 587 | 355 887 |
| France | 423 727 | 437 847 | 497 458 | 506 431 | 407 255 |
| Germany | 3 023 135 | 3 340 569 | 3 695 084 | 3 201 549 | 3 372 522 |
| Greece | 34 429 | 36 450 | 42 976 | 44 664 | 50 390 |
| Hungary | 232 | 629 | 2 987 | 576 | 49 578 |
| Italy | 170 027 | 326 123 | 325 395 | 289 415 | 317 124 |
| Latvia | 730 | 668 | 411 | 5 169 | 10 205 |
| Lithuania | 1 822 | 2 887 | 3 377 | 5 457 | 5 895 |
| Netherlands | 2 689 600 | 3 641 444 | 3 679 323 | 3 212 606 | 3 749 442 |
| Norway | 1 994 | 3 687 | 4 657 | 4 948 | 6 679 |
| Poland | 375 944 | 339 140 | 419 201 | 493 259 | 495 481 |
| Portugal | 3 656 | 4 413 | 3 952 | 4 444 | 6 130 |
| Romania | 349 112 | 393 787 | 546 390 | 497 826 | 598 154 |
| Slovakia | 50 441 | 45 612 | 47 199 | 51 539 | 53 451 |
| Slovenia | 3 513 | 4 400 | 4 814 | 5 253 | 8 034 |
| Spain | 785 056 | 617 170 | 695 177 | 744 750 | 750 180 |
| Sweden | 1 849 | 20 208 | 156 140 | 10 354 | 8 783 |
| Switzerland | 10 146 | 28 394 | 52 482 | 41 044 | 30 461 |
| Turkey | 31 967 | 46 398 | 43 317 | 30 898 | 22 167 |
| United Kingdom | 299 607 | 326 760 | 537 497 | 691 895 | 538 796 |

Imports of salt

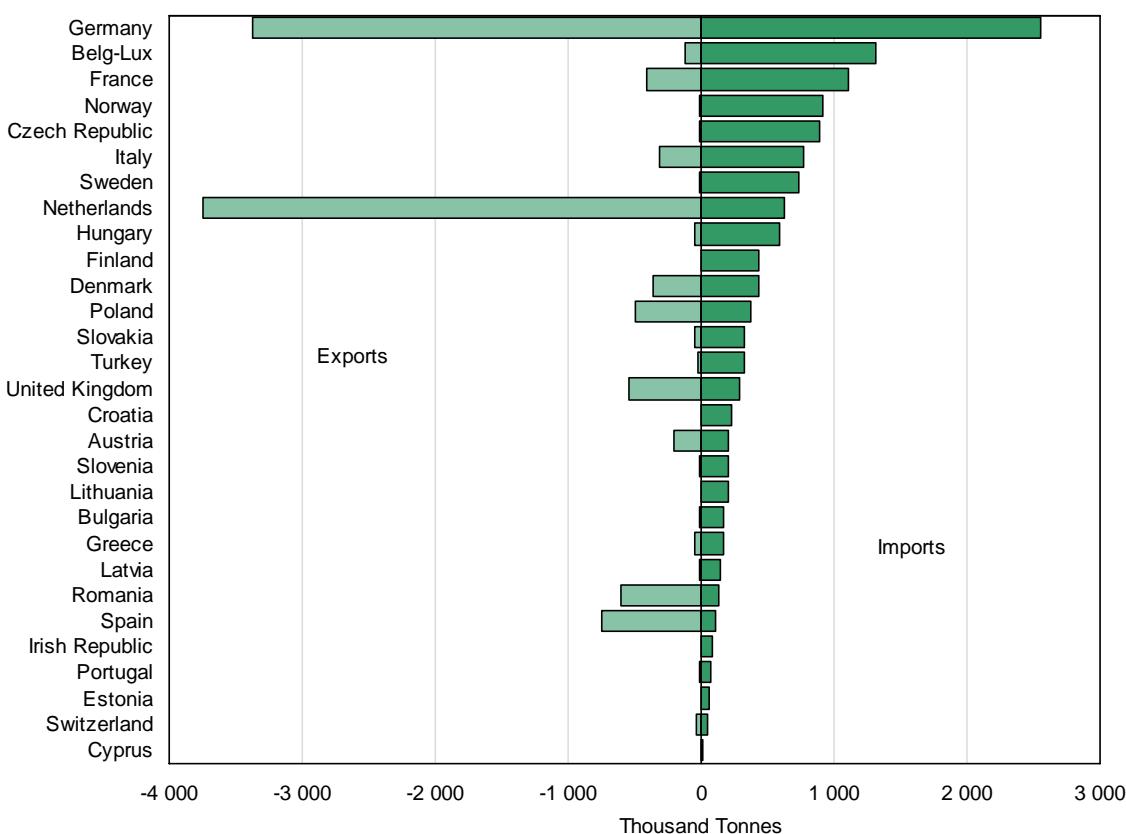
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------------|-----------|-----------|-----------|-----------|
| Austria | 59 742 | 92 209 | 206 355 | 350 903 | 210 736 |
| Belgium-Luxembourg | 3 285 692 | 3 411 148 | 1 895 987 | 1 236 192 | 1 315 385 |
| Bulgaria | 105 676 | 125 613 | 116 840 | 138 631 | 165 727 |
| Croatia | 84 219 | 139 989 | 164 046 | 165 277 | 226 931 |
| Cyprus | 11 616 | 10 530 | 14 053 | 8 650 | 13 795 |
| Czech Republic | 602 712 | 622 455 | 681 134 | 909 966 | 891 667 |
| Denmark | 255 671 | 317 692 | 376 122 | 440 020 | 436 794 |
| Estonia | 72 431 | 78 085 | 78 883 | 78 849 | 58 269 |
| Finland | 366 217 | 447 703 | 395 727 | 408 367 | 438 346 |
| France | 457 520 | 564 159 | 753 902 | 850 703 | 1 110 898 |
| Germany | 1 824 730 | 2 391 447 | 2 366 521 | 2 467 276 | 2 558 898 |
| Greece | 98 438 | 102 103 | 218 991 | 173 729 | 162 669 |
| Hungary | 395 106 | 468 704 | 557 050 | 486 695 | 592 522 |
| Irish Republic | 107 438 | 110 654 | 77 992 | 83 789 | 83 746 |
| Italy | 771 298 | 685 681 | 745 388 | 833 790 | 773 507 |
| Latvia | 91 525 | 100 542 | 100 459 | 122 251 | 139 662 |
| Lithuania | 157 181 | 166 252 | 187 050 | 204 839 | 198 994 |
| Malta | 1 722 | ... | ... | ... | 5 423 |
| Netherlands | 224 608 | 432 437 | 489 369 | 535 581 | 630 738 |
| Norway | 718 394 | 725 887 | 702 713 | 741 959 | 910 846 |
| Poland | 95 520 | 156 461 | 156 406 | 294 590 | 376 829 |
| Portugal | 116 508 | 119 892 | 139 720 | 121 621 | 70 266 |
| Romania | 23 077 | 59 231 | 99 679 | 120 787 | 131 683 |
| Slovakia | 158 752 | 200 614 | 213 250 | 266 601 | 320 413 |
| Slovenia | 107 755 | 128 212 | 155 881 | 178 531 | 207 314 |
| Spain | 31 179 | 42 431 | 47 011 | 36 494 | 111 449 |
| Sweden | 908 355 | 1 030 471 | 828 845 | 929 193 | 738 931 |
| Switzerland | 7 216 | 7 692 | 13 984 | 9 299 | 48 114 |
| Turkey | 12 118 | 78 204 | 202 349 | 307 039 | 320 147 |
| United Kingdom | (a) *235 000 | 306 488 | 217 009 | 219 581 | 287 623 |

Note(s) :-

(a) BGS estimates, based on known exports from certain countries

Salt – EU31 trade in 2005



Sillimanite minerals

- Sillimanite minerals are a group of three anhydrous aluminium silicate minerals (andalusite, kyanite and sillimanite) that are chiefly used as refractories. Bricks and mortar used to line furnaces and kilns usually contain a proportion of these minerals.
- Despite being common minerals in high-grade metamorphic rocks, economic concentrations of these minerals are rare. In 2005, production was restricted to only nine countries, of which South Africa was the largest producer. China is also believed to be a significant producer of sillimanite minerals. The only major producer in the EU31 is France.
- The market for sillimanite minerals was very stable during 2005. Kyanite, ex-works, USA (54–60% Al₂O₃, 18-tonne lots) traded between \$225–\$268/tonne throughout the year and andalusite, FOB Transvaal (57–58% Al₂O₃, 2000 tonne bulk) ranged from €180–210/tonne.

Production of sillimanite minerals

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------|--------|--------|--------|--------|---------|
| France | | | | | |
| Andalusite | 61 000 | 59 000 | 62 000 | 68 000 | *65 000 |
| Spain | | | | | |
| Andalusite | *250 | *250 | *200 | *200 | *200 |

Note(s):-

- (1) A number of other countries produce sillimanite minerals but details of output are not reported
(2) In addition to the countries listed above as producing sillimanite minerals, synthetic mullite is known to be produced in Denmark, France, Hungary and the United Kingdom

Exports of sillimanite minerals

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Belgium-Luxembourg | 6 368 | 5 783 | 22 825 | 49 319 | 77 463 |
| France | 56 510 | 46 454 | 49 958 | 51 653 | 55 052 |
| Germany | 8 092 | 10 565 | 12 413 | 14 382 | 12 191 |
| Hungary | | | | | |
| Mullite | ... | 2 728 | 3 869 | 6 108 | 6 922 |
| Netherlands | 10 932 | 5 604 | 6 400 | 10 097 | 11 444 |
| United Kingdom | 6 895 | 4 554 | 3 238 | 2 016 | 2 417 |

Note(s):-

- (1) In this table 'sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

Imports of sillimanite minerals

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------|--------|--------|--------|--------|--------|
| Austria | 3 531 | 2 499 | 2 660 | 1 981 | 2 194 |
| Belgium-Luxembourg | 10 972 | 10 499 | 29 333 | 53 146 | 81 538 |
| Czech Republic | 3 785 | 2 673 | 3 480 | 3 779 | 3 733 |
| Denmark | 3 518 | 2 726 | 3 414 | 2 274 | 2 909 |
| Finland | 298 | 338 | 299 | 302 | 445 |
| France | 2 518 | 2 685 | 3 411 | 3 360 | 3 080 |
| Germany | 56 821 | 62 654 | 63 602 | 60 782 | 58 047 |
| Hungary | ... | 1 370 | 2 045 | 2 396 | 4 519 |
| Irish Republic | 14 377 | 5 795 | 10 | 89 | 1 |
| Italy | 15 859 | 18 193 | 14 669 | 15 132 | 27 476 |
| Netherlands | 29 657 | 37 966 | 24 106 | 12 975 | 20 001 |
| Norway | 4 793 | 2 537 | 2 004 | 3 605 | 2 400 |
| Poland | | | | | |
| Sillimanite minerals | 11 872 | 16 182 | 17 682 | 14 928 | 9 975 |
| Mullite | 963 | 659 | 1 974 | 1 355 | 2 207 |
| Portugal | 566 | 405 | 330 | 337 | 160 |
| Slovakia | 1 770 | 2 385 | 2 690 | 2 459 | 4 312 |
| Spain | 12 885 | 13 581 | 15 782 | 15 262 | 27 308 |
| Sweden | 14 145 | 12 308 | 14 155 | 5 470 | 5 086 |
| Switzerland | 350 | 246 | 253 | 315 | 413 |
| Turkey | 3 920 | 3 386 | 3 486 | 5 110 | 5 504 |
| United Kingdom | | | | | |
| Sillimanite minerals | 28 470 | 18 588 | 22 649 | 24 348 | 39 650 |
| Mullite | 5 174 | 10 006 | 8 656 | 12 392 | 10 430 |

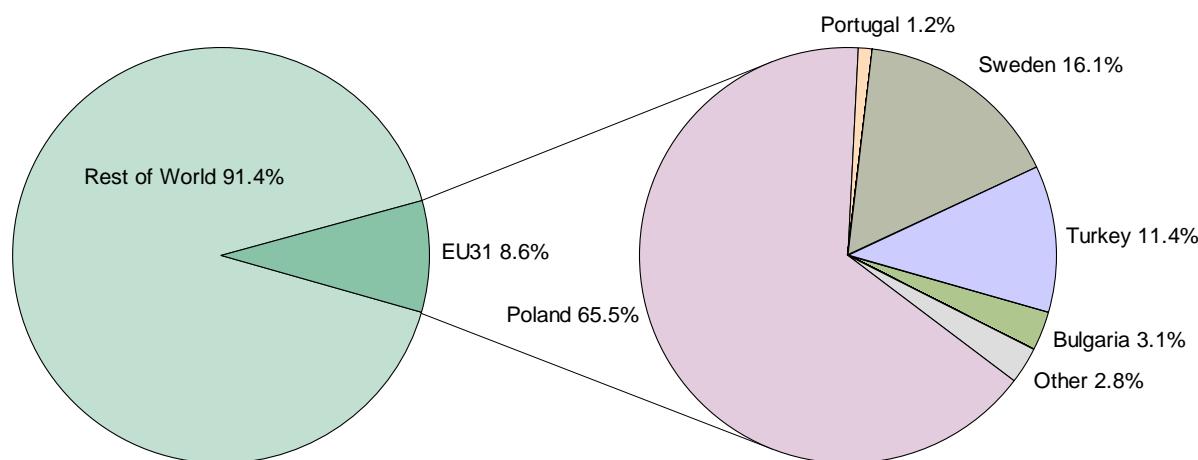
Note(s) :-

(1) In this table 'sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

Silver

- Silver is a ductile and malleable metallic element that has the highest electrical and thermal conductivity of all the metals. It is widely used in electronics although the most important uses are in photography (silver nitrate) and making mirrors.
- Silver is more common than the other precious metals, although still much rarer than base and ferrous metals. It is rarely mined in its own right, and is chiefly produced as a by-product of lead, tin or copper mining. In 2005 the world's largest producers were Peru, Mexico, China and Australia together accounting for 54% of world production. The largest EU31 producer was Poland (66% of EU31 production).
- During 2005 silver prices reached 9.23/troy oz, an 18 year high, with an annual average price of \$7.31/troy oz, 10% above the 2004 average price of \$6.69/troy oz. The significant increase in silver price during the last three years is largely attributed to increased investor interest and greater fabrication demand.

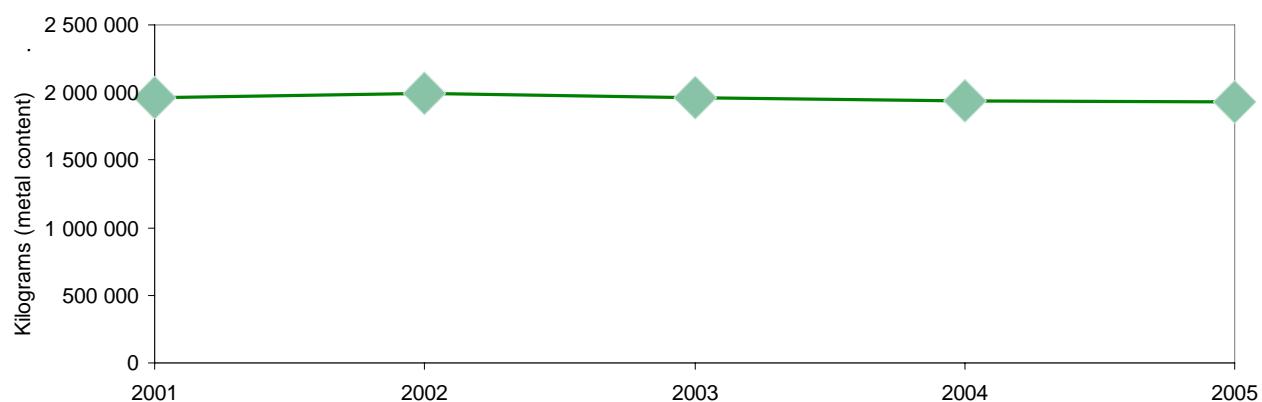
EU31 Production of silver 2005



Mine production of silver

kilograms (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| Bulgaria | 56 806 | 60 000 | *60 000 | *60 000 | *60 000 |
| Finland | *11 000 | *12 000 | *12 000 | *13 000 | *13 000 |
| France | 929 | 709 | 495 | 682 | *700 |
| Greece | 62 400 | 74 800 | 7 000 | — | 6 000 |
| Irish Republic | 8 700 | 7 500 | 8 500 | 5 200 | 10 500 |
| Italy | *1 000 | *1 000 | 200 | 100 | 100 |
| Poland | 1 230 700 | 1 343 000 | 1 332 200 | 1 372 700 | 1 262 400 |
| Portugal | 23 100 | 19 500 | 21 100 | 24 400 | 23 700 |
| Romania | *18 000 | *18 000 | *18 000 | *18 000 | *18 000 |
| Spain | 55 000 | 12 792 | 2 173 | 3 583 | 5 227 |
| Sweden | 306 029 | 320 823 | 340 701 | 319 563 | 309 933 |
| Turkey | 188 000 | 124 000 | 158 000 | 122 000 | 219 000 |
| EU31 Total | 1 962 000 | 1 994 000 | 1 960 000 | 1 939 000 | 1 929 000 |

EU31 Mine production of silver 2001 - 05**Exports of silver**

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Metal | 116 900 | 101 000 | 87 800 | 77 400 | 62 600 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | ... | 1 128 700 | 56 900 | 29 800 | 7 200 |
| Metal | 27 300 | 67 500 | 47 600 | 24 100 | 12 600 |
| Czech Republic | | | | | |
| Metal | ... | 140 057 | 171 398 | 291 519 | 28 900 |
| Denmark | | | | | |
| Metal | 17 229 | 13 532 | ... | ... | ... |
| Estonia | | | | | |
| Metal | 83 | 364 | ... | 13 | 93 |
| Finland | | | | | |
| Ores & concentrates | 220 037 | 530 720 | 357 250 | 507 350 | 416 650 |
| Metal | 20 207 | 6 886 | 6 882 | 9 804 | 6 764 |
| France | | | | | |
| Metal | 658 600 | 584 600 | 465 300 | 404 600 | 252 300 |
| Germany | | | | | |
| Metal | 2 446 100 | 2 638 400 | 3 032 700 | 2 814 700 | 2 631 200 |
| Greece | | | | | |
| Metal | 215 | 71 | 351 | 3 299 | 152 |
| Hungary | | | | | |
| Metal | 1 204 | 962 | 1 300 | 2 516 | 300 |
| Italy | | | | | |
| Metal | 399 772 | 442 900 | 677 683 | 616 861 | 564 308 |
| Netherlands | | | | | |
| Metal | ... | ... | 119 012 | 99 221 | 93 668 |
| Norway | | | | | |
| Metal | 74 774 | 64 962 | 62 669 | 69 207 | 66 139 |
| Poland | | | | | |
| Metal | 1 094 153 | 1 135 000 | 1 251 194 | 821 501 | 318 800 |
| Slovakia | | | | | |
| Metal | ... | 8 498 | 7 985 | 6 465 | 1 872 |
| Slovenia | | | | | |
| Metal | 1 775 | 1 367 | 3 948 | 2 699 | 6 382 |
| Spain | | | | | |
| Metal | 14 145 | 51 246 | 115 059 | 43 448 | 11 665 |
| Sweden | | | | | |
| Metal | 291 000 | 408 000 | 433 000 | 473 000 | 421 000 |
| Switzerland | | | | | |
| Metal | 1 627 403 | 1 306 190 | 1 544 676 | 1 085 657 | 1 044 011 |
| Turkey | | | | | |
| Metal | 75 | 303 | 947 | 2 731 | 21 449 |
| United Kingdom | | | | | |
| Metal | 2 282 355 | 1 497 995 | 3 429 247 | 1 754 885 | 2 289 098 |

Note(s):-

- (1) This table excludes silver coin but includes silver shipped for minting
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

Imports of silver

kilograms

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Metal | 138 500 | 100 900 | 109 300 | 127 600 | 127 900 |
| Belgium-Luxembourg | | | | | |
| Metal | 875 300 | 652 200 | 735 100 | 476 800 | 175 200 |
| Croatia | | | | | |
| Metal | 4 573 | 4 000 | *3 500 | 3 340 | 3 837 |
| Cyprus | | | | | |
| Metal | 9 624 | 8 614 | 8 461 | 5 135 | 5 675 |
| Czech Republic | | | | | |
| Metal | ... | 173 805 | 238 756 | 422 971 | 102 100 |
| Denmark | | | | | |
| Metal | 19 137 | 13 512 | *7 000 | ... | ... |
| Estonia | | | | | |
| Metal | 8 089 | 9 575 | 8 892 | 10 512 | 132 992 |
| Finland | | | | | |
| Metal | 89 015 | 87 543 | 56 470 | 75 350 | 70 623 |
| France | | | | | |
| Metal | 1 421 400 | 954 400 | 970 000 | 675 000 | 729 800 |
| Germany | | | | | |
| Metal | 1 894 000 | 1 844 300 | 2 185 300 | 1 434 200 | 1 861 800 |
| Greece | | | | | |
| Metal | 25 686 | 38 516 | 49 225 | 95 318 | ... |
| Hungary | | | | | |
| Metal | 19 541 | 15 444 | 17 695 | 33 178 | 15 200 |
| Irish Republic | | | | | |
| Metal | 2 940 | 2 960 | 2 247 | 2 709 | 2 386 |
| Italy | | | | | |
| Metal | 2 030 362 | 1 705 431 | 1 724 000 | 1 776 385 | 1 635 765 |
| Lithuania | | | | | |
| Metal | ... | 3 058 | 1 771 | 5 885 | 3 943 |
| Netherlands | | | | | |
| Metal | ... | 131 021 | 140 415 | 139 218 | 139 625 |
| Norway | | | | | |
| Metal | 84 784 | 60 995 | 72 647 | 86 037 | 90 331 |
| Poland | | | | | |
| Metal | 22 372 | 18 297 | 36 266 | 34 563 | 40 100 |
| Portugal | | | | | |
| Metal | 599 | 64 | 2 520 | 2 237 | 200 |
| Slovakia | | | | | |
| Metal | ... | 13 268 | 13 073 | 17 735 | 57 416 |
| Slovenia | | | | | |
| Metal | 32 378 | 35 827 | 36 253 | 307 045 | 45 584 |
| Spain | | | | | |
| Ores & concentrates | 43 638 | 75 862 | 59 205 | 54 295 | 59 653 |
| Metal | 175 430 | 307 864 | 133 844 | 158 529 | 106 596 |
| Sweden | | | | | |
| Metal | 153 000 | 116 000 | 111 000 | 161 000 | 151 000 |
| Switzerland | | | | | |
| Metal | 1 476 601 | 1 028 138 | 746 184 | 1 082 664 | 1 484 207 |
| Turkey | | | | | |
| Metal | 90 014 | 169 098 | 199 226 | 269 009 | 409 844 |
| United Kingdom | | | | | |
| Metal | 3 471 871 | 3 780 907 | 2 484 101 | 2 105 057 | 1 485 290 |

Note(s) :-

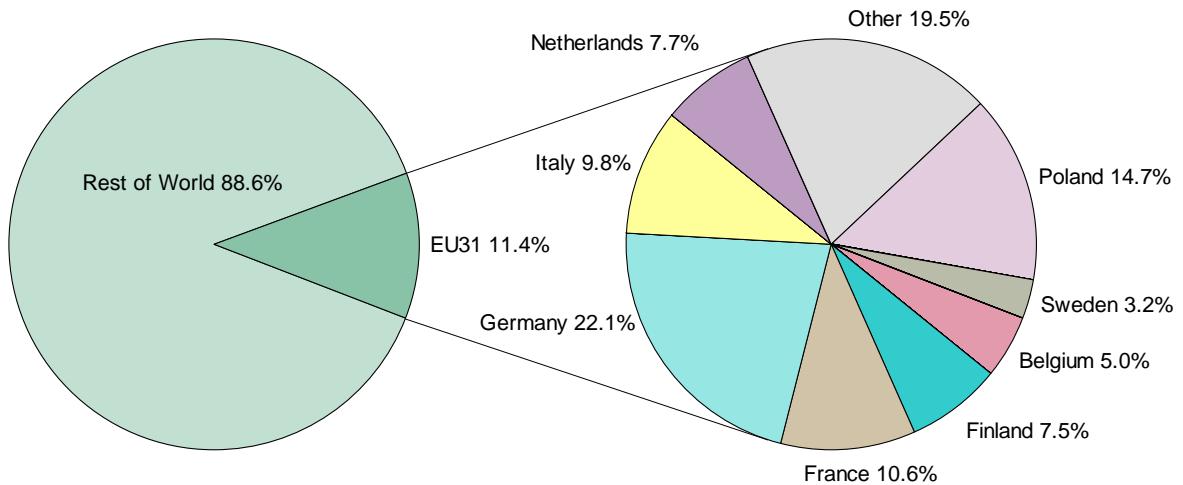
(1) This table excludes silver coin but includes silver shipped for minting

(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

Sulphur and pyrites

- Sulphur is one of the fundamental feedstocks to the chemical industry, usually as sulphuric acid. The chief sources of sulphur are petroleum refining, natural gas, base metal sulphide processing and pyrites (iron sulphide).
- Most industrialised countries in the world have some sulphur production. The largest producers in 2005 were USA (14%) and Canada (14%). In the EU31 the largest producer was Germany (22% of EU31 production).
- In 2005, sulphur prices remained relatively stable. The contract prices for elemental sulphur at terminals in Tampa, Florida, began the year trading at between \$61–\$64/tonne. In the summer prices increased to between \$66–\$69/tonne before ending the year at \$72–\$75/tonne.

EU31 Production of sulphur and pyrites 2005



Production of sulphur and pyrites

tonnes (sulphur content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Austria | | | | | |
| Recovered (b) | 50 135 | 54 925 | 50 568 | 55 322 | 54 377 |
| Belgium | | | | | |
| Recovered (a) (b) | 368 000 | 359 000 | 383 000 | 371 000 | 376 000 |
| Bulgaria | | | | | |
| Recovered (a) | 203 000 | 245 000 | 260 000 | 301 000 | 312 000 |
| Recovered (b) | 30 000 | 30 000 | 30 000 | 25 000 | 30 000 |
| Croatia | | | | | |
| Recovered (b) | 7 000 | 7 069 | 7 471 | 9 000 | 9 000 |
| Czech Republic | | | | | |
| Recovered (b) | 40 000 | 40 000 | 45 000 | 60 000 | 65 000 |
| Denmark | | | | | |
| Recovered (b) | 3 981 | 4 386 | 4 751 | 4 660 | 4 223 |
| Finland | | | | | |
| Pyrites | 260 000 | 235 000 | 276 200 | 283 700 | 189 000 |
| Recovered (a) | 329 555 | 328 441 | 328 779 | 325 523 | 305 013 |
| Recovered (b) | 46 000 | 55 000 | 61 000 | 65 000 | 70 000 |
| France | | | | | |
| Recovered (b) | 840 000 | 795 600 | 710 400 | 698 400 | 622 345 |
| Recovered (c) | *260 000 | 229 000 | 196 000 | 196 000 | 180 000 |
| Germany | | | | | |
| Recovered (a) | 80 000 | 46 000 | — | — | — |
| Recovered (b) | 1 640 000 | 1 657 200 | 1 619 900 | 1 526 700 | 1 627 900 |
| Recovered (c) | 40 000 | 41 900 | 43 900 | 40 000 | 42 900 |
| Greece | | | | | |
| Recovered (b) | 153 000 | 157 000 | 162 000 | 160 000 | 162 000 |
| Hungary | | | | | |
| Recovered (b) | 43 000 | 52 000 | 51 000 | 35 000 | 65 000 |
| Italy | | | | | |
| Recovered (a) | 203 000 | 142 000 | 127 000 | 113 000 | 92 000 |
| Recovered (b) | 540 000 | 560 000 | 565 000 | 575 000 | 650 000 |

Sulphur and Pyrites

Production continued

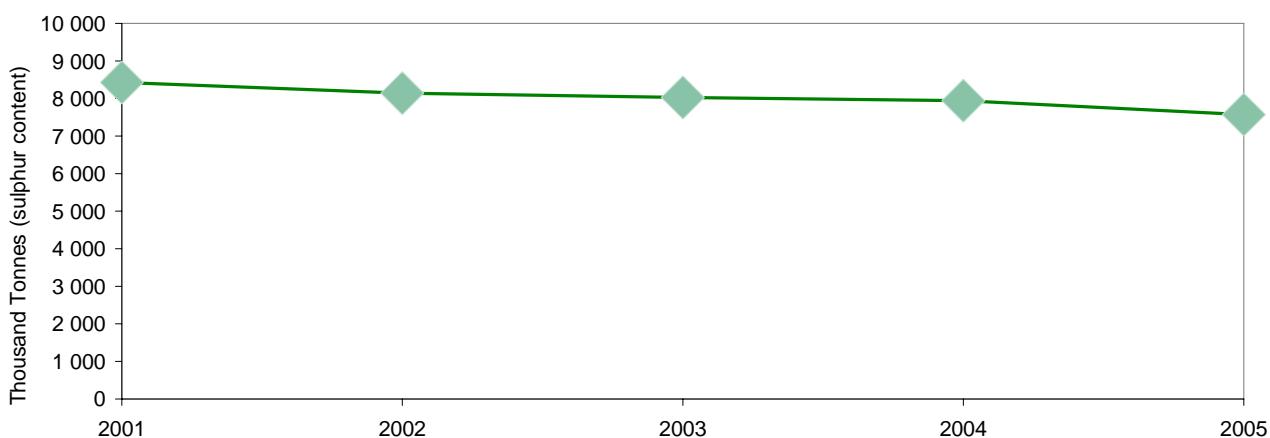
tonnes (sulphur content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------|-----------|-----------|-----------|-----------|-----------|
| Lithuania | | | | | |
| Recovered (b) | 47 000 | 49 824 | 48 515 | 67 094 | 74 268 |
| Netherlands | | | | | |
| Recovered (a) | 126 000 | 124 000 | 131 000 | 137 000 | 141 000 |
| Recovered (b) | 384 000 | 373 000 | 408 000 | 410 000 | 440 000 |
| Norway | | | | | |
| Recovered (a) | *95 000 | 95 000 | 100 000 | *100 000 | *100 000 |
| Recovered (b) | 18 000 | 19 000 | 20 000 | 18 000 | 19 000 |
| Poland | | | | | |
| Frasch | 942 252 | 760 320 | 762 689 | 821 489 | 801 799 |
| Recovered (a) | *280 000 | *275 000 | 293 700 | 289 100 | *290 000 |
| Recovered (b) | 27 602 | 22 777 | 23 384 | 23 767 | 22 193 |
| Portugal | | | | | |
| Recovered | 35 000 | 28 000 | 27 000 | 25 000 | 30 000 |
| Romania | | | | | |
| Pyrites | 1 835 | — | — | — | — |
| Recovered | 41 000 | 29 000 | 49 000 | 53 000 | 79 000 |
| Slovakia | | | | | |
| Recovered (a) | 5 000 | 5 000 | 5 000 | 5 000 | 5 000 |
| Recovered (b) | 57 000 | 61 000 | 60 000 | 65 000 | 65 000 |
| Spain | | | | | |
| Pyrites | 89 796 | — | — | — | — |
| Recovered (a) | 461 000 | 544 000 | 560 000 | 488 000 | — |
| Recovered (b) | 135 000 | 140 000 | 145 000 | 145 000 | *150 000 |
| Sweden | | | | | |
| Recovered (a) | 160 100 | 177 600 | 180 200 | 185 800 | 180 000 |
| Recovered (b) | 54 530 | 51 065 | 62 454 | 62 238 | 59 839 |
| Turkey | | | | | |
| Pyrites | 26 000 | 34 000 | 28 000 | 20 000 | 55 000 |
| Recovered (b) (c) | 126 000 | 123 000 | 94 000 | 68 000 | 76 000 |
| United Kingdom | | | | | |
| Recovered (a) | 62 400 | 66 400 | 4 800 | — | — |
| Recovered (b) | 111 000 | 125 000 | 115 000 | 120 000 | 124 000 |
| EU31 Total | | | | | |
| Pyrites | 378 000 | 269 000 | 304 000 | 304 000 | 244 000 |
| Frasch | 942 252 | 760 320 | 762 689 | 821 489 | 801 799 |
| Recovered | 7 100 000 | 7 100 000 | 7 000 000 | 6 800 000 | 6 500 000 |

Note(s):-

- (a) From metal sulphide processing
- (b) From petroleum refining and/or natural gas
- (c) Other

EU31 Production of sulphur and pyrites 2001 - 05



Exports of sulphur and pyrites

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|----------|----------|----------|----------|----------|
| Austria | | | | | |
| Sulphur, sublimed & precipitated | 6 707 | 14 596 | 9 265 | 8 435 | 9 245 |
| Belgium-Luxembourg | | | | | |
| Sulphur | 41 761 | 44 882 | 40 984 | 36 824 | 47 927 |
| Sulphur, sublimed & precipitated | 239 | 291 | 350 | 338 | 290 |
| Bulgaria | | | | | |
| Sulphur | 17 274 | 25 306 | 21 478 | 20 103 | 25 019 |
| Croatia | | | | | |
| Sulphur | 6 386 | 7 150 | 7 505 | 8 505 | 8 028 |
| Czech Republic | | | | | |
| Sulphur | 2 398 | 7 410 | 10 087 | 9 787 | 9 294 |
| Sulphur, sublimed & precipitated | 3 069 | 118 | 134 | 1 581 | 503 |
| Denmark | | | | | |
| Sulphur | 1 044 | 1 182 | 1 598 | 2 608 | 332 |
| Finland | | | | | |
| Pyrites (a) | *250 700 | *282 000 | *266 000 | *279 000 | *100 000 |
| France | | | | | |
| Sulphur, crude | 559 527 | 385 326 | 382 273 | 481 226 | 347 690 |
| Sulphur, refined | 1 354 | 10 988 | 16 851 | 16 076 | 13 904 |
| Sulphur, sublimed & precipitated | 753 | 764 | 652 | 562 | 642 |
| Germany | | | | | |
| Pyrites | 511 | 483 | 389 | 339 | 240 |
| Sulphur, crude | 976 781 | 943 122 | 856 707 | 854 548 | 862 753 |
| Sulphur, refined | 36 859 | 35 614 | 41 163 | 40 135 | 36 067 |
| Sulphur, sublimed & precipitated | 14 862 | 5 184 | 4 021 | 276 | 163 |
| Hungary | | | | | |
| Sulphur | ... | 28 389 | ... | 22 607 | 36 472 |
| Italy | | | | | |
| Pyrites | 9 455 | 9 547 | 8 185 | 7 384 | 4 763 |
| Sulphur, crude | 179 324 | 155 173 | 14 358 | 8 785 | 41 534 |
| Sulphur, refined | (b) ... | (b) ... | 136 717 | 156 833 | 183 869 |
| Sulphur, sublimed & precipitated | 352 | 251 | 5 693 | 930 | 2 159 |
| Lithuania | | | | | |
| Sulphur | 5 660 | 14 094 | 16 724 | 13 960 | 3 851 |
| Netherlands | | | | | |
| Pyrites | 93 095 | 16 401 | ... | 76 812 | 82 502 |
| Sulphur, crude | 186 059 | 118 053 | 223 880 | 133 553 | 55 758 |
| Sulphur, refined | 105 723 | 143 272 | 98 196 | 170 473 | 192 922 |
| Sulphur, sublimed & precipitated | 26 | 38 | 105 | 2 | 10 |
| Norway | | | | | |
| Sulphur, sublimed & precipitated | 11 504 | 11 630 | 12 194 | 2 671 | — |
| Poland | | | | | |
| Sulphur | 773 373 | 597 905 | 530 180 | 560 340 | 575 796 |
| Portugal | | | | | |
| Sulphur | 14 009 | 20 172 | 9 847 | 10 838 | 28 122 |
| Sulphur, sublimed & precipitated | 1 | 509 | 408 | 121 | 80 |
| Romania | | | | | |
| Sulphur | 79 | 5 505 | 12 974 | 20 682 | 54 917 |
| Spain | | | | | |
| Sulphur, crude | 49 385 | 39 389 | 29 959 | 45 034 | 32 557 |
| Sulphur, refined | 19 318 | 13 476 | 12 746 | 8 704 | 13 133 |
| Sulphur, sublimed & precipitated | 52 | 69 | 575 | 79 | 124 |
| Sweden | | | | | |
| Sulphur | 1 453 | 493 | 9 572 | 4 542 | 16 883 |
| Sulphur, sublimed & precipitated | 2 | 2 | 0 | 139 | 239 |
| Turkey | | | | | |
| Sulphur | 2 722 | 2 530 | 1 251 | 534 | 638 |
| Sulphur, sublimed & precipitated | 880 | 1 641 | 141 | 75 | 127 |
| United Kingdom | | | | | |
| Sulphur | 1 563 | 580 | 476 | 700 | 431 |
| Sulphur, sublimed & precipitated | 386 | 657 | 836 | 1 387 | 1 458 |

Note(s):-

- (a) BGS estimates, based on known imports into certain countries
 (b) Included with crude

Imports of sulphur and pyrites

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Pyrites | 1 040 | 1 064 | 2 107 | 3 126 | 3 251 |
| Sulphur | 22 055 | 44 365 | 64 198 | 58 218 | 60 054 |
| Sulphur, sublimed & precipitated | 314 | 237 | 388 | 6 339 | 9 589 |
| Belgium-Luxembourg | | | | | |
| Sulphur, crude | 162 134 | 155 665 | 152 598 | 152 830 | 167 624 |
| Sulphur, refined | 277 195 | 218 830 | 241 917 | 305 518 | 322 649 |
| Sulphur, sublimed & precipitated | 178 | 25 | 103 | 28 | 127 |
| Croatia | | | | | |
| Sulphur | 53 025 | 39 190 | 46 017 | 63 606 | 70 897 |
| Sulphur, sublimed & precipitated | 299 | 1 738 | 3 611 | 4 817 | 1 923 |
| Cyprus | | | | | |
| Sulphur | 1 222 | 939 | 1 370 | 1 226 | 1 356 |
| Czech Republic | | | | | |
| Sulphur | 56 621 | 51 922 | 52 784 | 34 787 | 16 983 |
| Sulphur, sublimed & precipitated | 45 665 | 39 772 | 49 164 | 70 159 | 89 595 |
| Denmark | | | | | |
| Sulphur | 9 358 | 8 616 | 8 210 | 7 883 | 7 066 |
| Finland | | | | | |
| Sulphur | 35 387 | 26 123 | 19 575 | 8 238 | 310 |
| France | | | | | |
| Pyrites | 4 229 | 7 314 | 3 359 | 5 643 | 4 521 |
| Sulphur, crude | 55 620 | 42 855 | 50 147 | 43 846 | 39 973 |
| Sulphur, refined | 68 001 | 74 225 | 56 388 | 27 041 | 42 353 |
| Sulphur, sublimed & precipitated | 8 194 | 2 622 | 2 488 | 12 555 | 5 809 |
| Germany | | | | | |
| Pyrites | 77 260 | 51 479 | 42 170 | 53 264 | 62 686 |
| Sulphur | 31 498 | 31 481 | 45 962 | 56 272 | 46 127 |
| Sulphur, sublimed & precipitated | 1 837 | 1 121 | 1 448 | 12 782 | 4 389 |
| Greece | | | | | |
| Sulphur, crude | 90 126 | 90 577 | 106 897 | 83 711 | 68 761 |
| Hungary | | | | | |
| Sulphur | 4 339 | 1 853 | 1 426 | 1 088 | 1 079 |
| Sulphur, sublimed & precipitated | 287 | 134 | 67 | 296 | 362 |
| Irish Republic | | | | | |
| Sulphur, sublimed & precipitated | 1 281 | 194 | 898 | 1 371 | 2 327 |
| Italy | | | | | |
| Pyrites | 9 174 | 15 021 | 12 067 | 8 929 | 15 548 |
| Sulphur, crude | 43 335 | 53 623 | 11 975 | 8 646 | 3 150 |
| Sulphur, refined | 8 086 | 8 330 | 8 478 | 10 279 | 10 497 |
| Sulphur, sublimed & precipitated | 3 939 | 820 | 483 | 281 | 328 |
| Lithuania | | | | | |
| Sulphur | 66 675 | 269 602 | 316 359 | 255 917 | 306 635 |
| Netherlands | | | | | |
| Sulphur | 30 101 | 58 270 | 29 631 | 40 439 | 37 083 |
| Sulphur, sublimed & precipitated | 34 161 | 55 027 | 210 984 | 104 982 | 37 484 |
| Norway | | | | | |
| Pyrites | 151 438 | 225 139 | 225 492 | 225 513 | 26 940 |
| Sulphur | 1 542 | 1 567 | 628 | 4 559 | 16 413 |
| Sulphur, sublimed & precipitated | ... | ... | ... | ... | 240 |
| Poland | | | | | |
| Pyrites | 402 | 504 | 1 933 | 1 061 | 1 013 |
| Sulphur | 70 246 | 98 279 | 88 544 | 78 292 | 78 274 |
| Sulphur, sublimed & precipitated | 239 | 120 | 97 | 11 | 3 |
| Portugal | | | | | |
| Sulphur | 3 306 | 5 981 | 6 333 | 3 532 | 5 878 |
| Sulphur, sublimed & precipitated | 103 | 5 | 5 | 431 | 28 |
| Romania | | | | | |
| Sulphur | 22 311 | 357 | 5 660 | 2 075 | 964 |
| Sulphur, sublimed & precipitated | 146 | 13 | 30 | 9 | 113 |
| Slovakia | | | | | |
| Sulphur | 21 142 | 18 738 | 7 439 | 3 582 | 3 669 |
| Slovenia | | | | | |
| Pyrites | 379 | 426 | 399 | 375 | 400 |
| Sulphur | 51 734 | 49 560 | 46 289 | 49 649 | 58 669 |

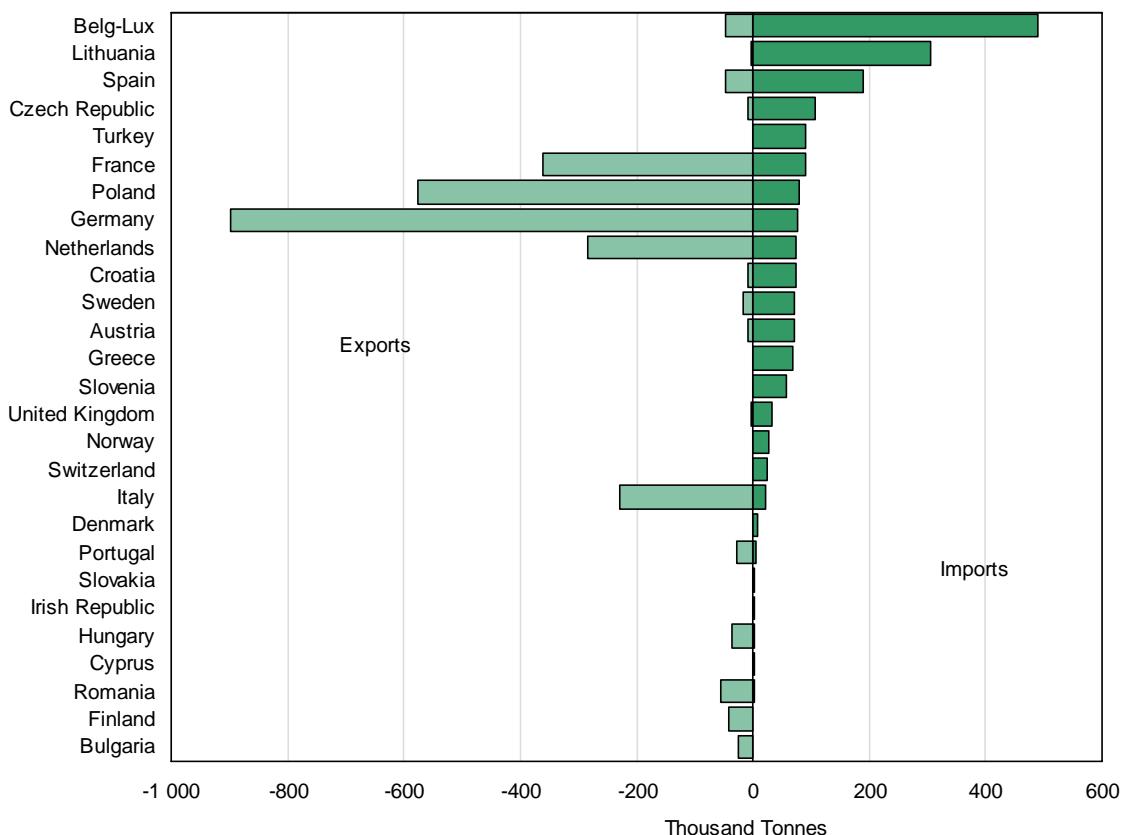
Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------------|-------------|------------|---------|---------|---------|
| Spain | | | | | |
| Sulphur, crude | 221 786 | 205 049 | 210 794 | 220 662 | 182 318 |
| Sulphur, refined | 5 869 | 8 219 | 5 936 | 13 582 | 5 778 |
| Sulphur, sublimed & precipitated | 220 | 238 | 753 | 533 | 243 |
| Sweden | | | | | |
| Pyrites | 482 | 386 | 291 | 699 | 319 |
| Sulphur | 69 293 | 63 948 | 89 505 | 61 305 | 71 337 |
| Sulphur, sublimed & precipitated | 7 141 | 5 010 | 5 632 | 2 693 | 16 |
| Switzerland | | | | | |
| Pyrites | 217 | 239 | 207 | 117 | 76 |
| Sulphur | 40 754 | 30 140 | 25 968 | 24 940 | 24 977 |
| Sulphur, sublimed & precipitated | 24 | 93 | 193 | 120 | 61 |
| Turkey | | | | | |
| Sulphur | 67 396 | 127 779 | 124 243 | 90 502 | 91 763 |
| Sulphur, sublimed & precipitated | 73 | 2 008 | 4 899 | 138 | 110 |
| United Kingdom | | | | | |
| Sulphur, crude | (a) 170 055 | (a) 87 260 | 23 469 | 44 963 | 24 222 |
| Sulphur, refined | ... | ... | 5 560 | 3 984 | 7 263 |
| Sulphur, sublimed & precipitated | 390 | 355 | 544 | 675 | 577 |

Note(s) :-

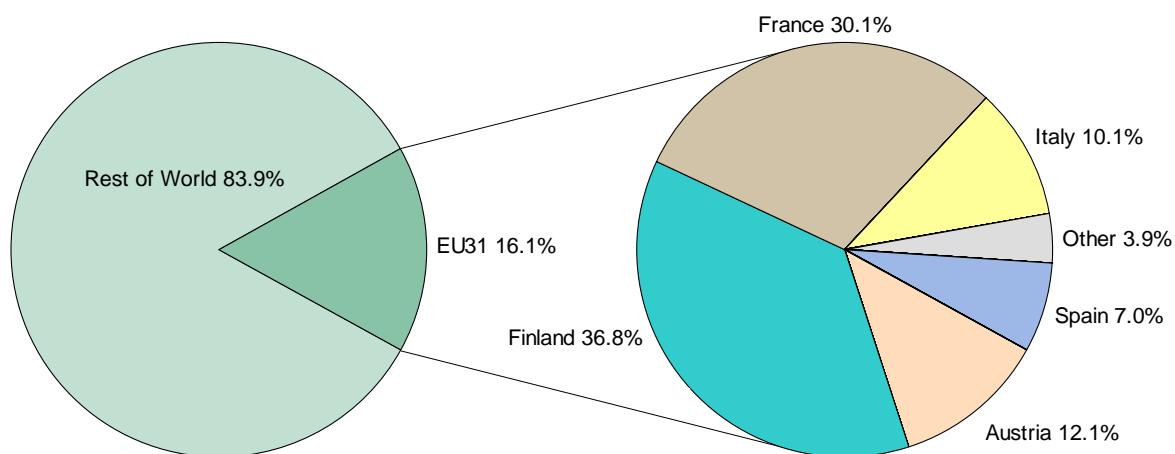
(a) Including refined

Sulphur and pyrites – EU31 trade in 2005

Talc

- Talc is a soft hydrous magnesium silicate mineral. It is frequently coloured by the presence of iron-bearing minerals and trace elements but usually turns white upon fine grinding. The familiar use of talc as a cosmetic powder is minor compared to industrial usage. Talc is chiefly used as a filler in paint, plastics, pharmaceuticals, adhesives and rubber. It is also extensively used in ceramics manufacture and as a filler and coater in the paper industry.
- During 2005 the largest world producer was China (estimated 31% of world production). Within Europe the largest producer is Finland, which accounted for 37% of EU31 production.
- Talc is traded in a variety of forms and, as a result of widespread production, markets are very stable. During 2005 Norwegian, ex-store UK talc traded at between £142–£294/tonne depending on grade.

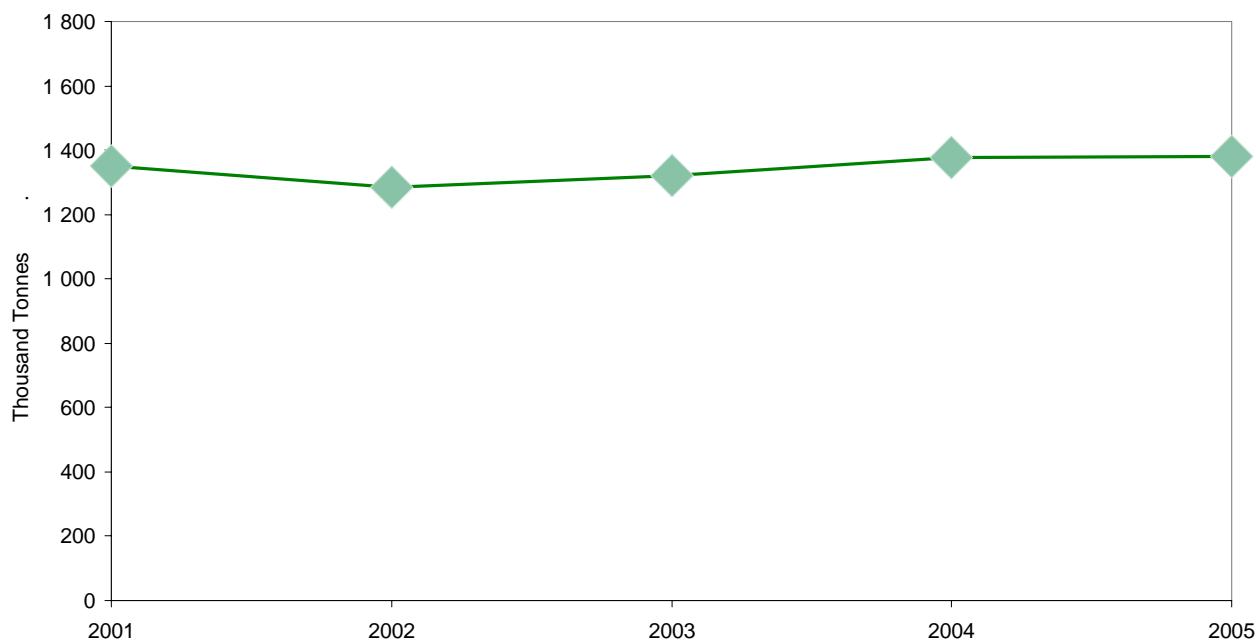
EU31 Production of talc 2005



Production of talc

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| Austria | 137 776 | 138 195 | 137 596 | 136 305 | 166 569 |
| Finland | 476 620 | 477 229 | 501 658 | 528 943 | 508 169 |
| France | 417 000 | 359 000 | 394 000 | 402 000 | 416 000 |
| Germany | *9 000 | *8 000 | 3 859 | ... | ... |
| Greece | 2 073 | 670 | 500 | 200 | 250 |
| Italy | 126 868 | 125 040 | 122 849 | 138 367 | *140 000 |
| Norway | 24 626 | 23 564 | *24 000 | 23 725 | *24 000 |
| Portugal | 8 362 | 8 279 | 5 460 | 6 231 | ... |
| Romania | 7 270 | 7 310 | 10 082 | 9 725 | 6 760 |
| Slovakia | 2 600 | 2 290 | 4 200 | 7 100 | 200 |
| Spain | | | | | |
| Talc | 119 000 | 108 312 | 101 739 | 107 829 | 97 000 |
| Pyrophyllite | ... | ... | 900 | 700 | — |
| Sweden | 14 000 | 20 000 | 7 000 | 8 000 | 7 000 |
| United Kingdom | 4 947 | 6 194 | 6 494 | 3 881 | 6 000 |
| EU31 Total | 1 351 000 | 1 285 000 | 1 320 000 | 1 377 000 | 1 382 000 |

EU31 Production of talc 2001 - 05**Exports of talc**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|----------|----------|----------|----------|----------|
| Austria | 162 302 | 142 879 | 174 590 | 151 022 | 158 799 |
| Belgium-Luxembourg | 81 767 | 86 924 | 92 350 | 128 120 | 168 900 |
| Finland (a) | *135 000 | *120 000 | *227 000 | *276 000 | *278 000 |
| France | 191 750 | 222 699 | 226 550 | 262 147 | 279 659 |
| Germany | 6 048 | 7 088 | 5 285 | 3 862 | 3 906 |
| Greece | 31 989 | 1 853 | 990 | 2 566 | 3 479 |
| Hungary | ... | 15 | 314 | 1 533 | — |
| Italy | 89 839 | 108 467 | 116 739 | 118 131 | 120 920 |
| Netherlands | 145 951 | 164 515 | 177 554 | 225 528 | 183 270 |
| Norway | 30 480 | 32 894 | 32 520 | 30 279 | 28 448 |
| Portugal | 93 | 150 | 204 | 1 117 | 1 614 |
| Slovakia | 1 549 | 1 322 | 1 205 | ... | 1 051 |
| Spain | 63 657 | 67 921 | 67 748 | 60 832 | 56 493 |
| Sweden | 5 138 | 14 370 | 8 061 | 9 388 | 10 080 |
| Switzerland | 1 070 | 847 | 1 777 | 72 | 105 |
| Turkey | 120 | 249 | 436 | 1 963 | 2 768 |
| United Kingdom | 4 034 | 3 833 | 3 325 | 3 317 | 5 244 |

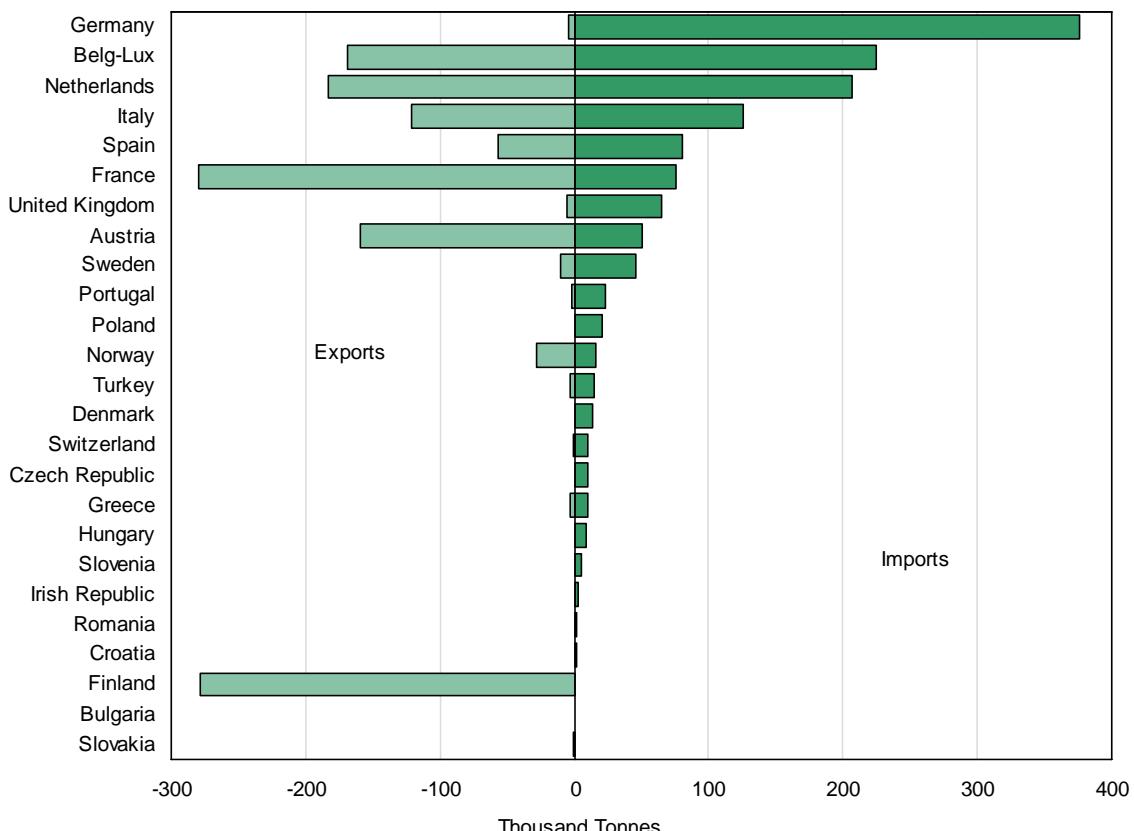
Note(s):-

(a) BGS estimates, based on known imports into certain countries

Imports of talc

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | 50 199 | 46 833 | 30 831 | 49 930 | 50 768 |
| Belgium-Luxembourg | 105 971 | 115 112 | 124 455 | 135 046 | 224 624 |
| Bulgaria | 455 | 404 | 465 | 487 | 599 |
| Croatia | 1 397 | 1 587 | 1 531 | 1 726 | 1 378 |
| Cyprus | 181 | 202 | 255 | 242 | 386 |
| Czech Republic | 9 082 | 9 299 | 10 278 | 9 426 | 9 986 |
| Denmark | 13 156 | 16 577 | 14 407 | 14 085 | 14 103 |
| Estonia | ... | ... | ... | ... | 300 |
| Finland | 4 027 | 3 251 | 3 971 | 1 827 | 866 |
| France | 41 095 | 43 342 | 40 650 | 77 240 | 76 021 |
| Germany | 244 678 | 263 988 | 307 374 | 352 177 | 376 618 |
| Greece | 6 528 | 4 206 | 5 316 | 10 061 | 9 937 |
| Hungary | 9 698 | 9 576 | 10 070 | 9 178 | ... |
| Irish Republic | 1 848 | 2 224 | 2 008 | 2 508 | 2 632 |
| Italy | 133 646 | 117 688 | 127 855 | 126 745 | 125 913 |
| Netherlands | 89 378 | 95 121 | 220 448 | 226 602 | 206 485 |
| Norway | 8 762 | 11 557 | 14 737 | 14 522 | 16 488 |
| Poland | 14 274 | 17 989 | 18 342 | 16 155 | 20 536 |
| Portugal | 14 354 | 16 685 | 17 721 | 20 203 | 23 583 |
| Romania | 1 038 | 1 200 | 1 187 | 1 609 | 1 962 |
| Slovakia | 711 | 382 | 369 | 192 | 211 |
| Slovenia | 3 990 | 4 706 | 5 251 | 5 628 | 5 383 |
| Spain | 63 627 | 65 691 | 68 760 | 80 626 | 80 726 |
| Sweden | 34 297 | 42 307 | 45 509 | 43 288 | 45 376 |
| Switzerland | 15 385 | 12 916 | 11 490 | 9 579 | 10 254 |
| Turkey | 7 026 | 10 937 | 11 227 | 16 810 | 15 312 |
| United Kingdom | 66 737 | 66 119 | 59 172 | 66 722 | 65 496 |

Talc – EU31 trade in 2005

Tantalum and niobium

- Tantalum and niobium are produced from their ores, sometimes combined in one mineral. Tantalum is also produced from tin refinery slags. Tantalum is a heavy, very hard, ductile metallic element that has a very high melting point (2996°C) and is strongly resistant to chemical attack. It is used chiefly in electronic applications, especially in miniature capacitors. Niobium is a soft and ductile metallic element that is used mainly in special steels and superalloys.
- World production of tantalum in 2005 was dominated by Australia (approximately 69%) and the largest producer of niobium ores was Brazil (approximately 93%). There was no production in the EU31, which is entirely import dependent.
- Tantalum is normally traded in oxide form (tantalite). During 2005 the average price for tantalite was stable (Greenbushes 40% basis), trading at \$40/lb Ta₂O₅ throughout the year.

Exports of tantalum and niobium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|------|------|------|------|------|
| Austria | | | | | |
| Tantalum | 98 | 43 | ... | — | — |
| Czech Republic | | | | | |
| Tantalum | 106 | 40 | 55 | 84 | 68 |
| Estonia | | | | | |
| Tantalum | 1 | ... | 25 | 39 | 65 |
| France | | | | | |
| Tantalum | 32 | 207 | 3 | 20 | 101 |
| Germany | | | | | |
| Niobium & tantalum ores | 379 | 545 | 174 | 93 | ... |
| Tantalum | 258 | 719 | 323 | 337 | 190 |
| Italy | | | | | |
| Tantalum | 3 | 50 | 1 | 2 | 1 |
| Netherlands | | | | | |
| Tantalum | 31 | 21 | 23 | 24 | 3 |
| Portugal | | | | | |
| Tantalum | 24 | ... | 18 | 42 | 15 |
| United Kingdom | | | | | |
| Tantalum | 395 | 280 | 278 | 77 | 131 |

Note(s):-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Imports of tantalum and niobium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|------|------|------|
| Austria | | | | | |
| Tantalum | 12 | 3 | 54 | 64 | 0 |
| Belgium-Luxembourg | | | | | |
| Tantalum | 1 | 7 | 41 | 20 | 1 |
| Czech Republic | | | | | |
| Tantalum | 147 | 128 | 168 | 261 | 141 |
| France | | | | | |
| Tantalum | 20 | 42 | 41 | 67 | 23 |
| Germany | | | | | |
| Tantalum | 259 | 274 | 239 | 281 | 164 |
| Irish Republic | | | | | |
| Tantalum | 7 | 2 | 2 | 2 | 8 |
| Netherlands | | | | | |
| Tantalum | 63 | 15 | 4 | 35 | 12 |
| Poland | | | | | |
| Tantalum | 14 | 0 | ... | 1 | 1 |
| Portugal | | | | | |
| Tantalum | 99 | 171 | 69 | 68 | 115 |
| Spain | | | | | |
| Tantalum | ... | ... | 30 | 4 | 62 |
| United Kingdom | | | | | |
| Tantalum | 1 610 | 3 480 | 842 | 243 | 97 |

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Tin

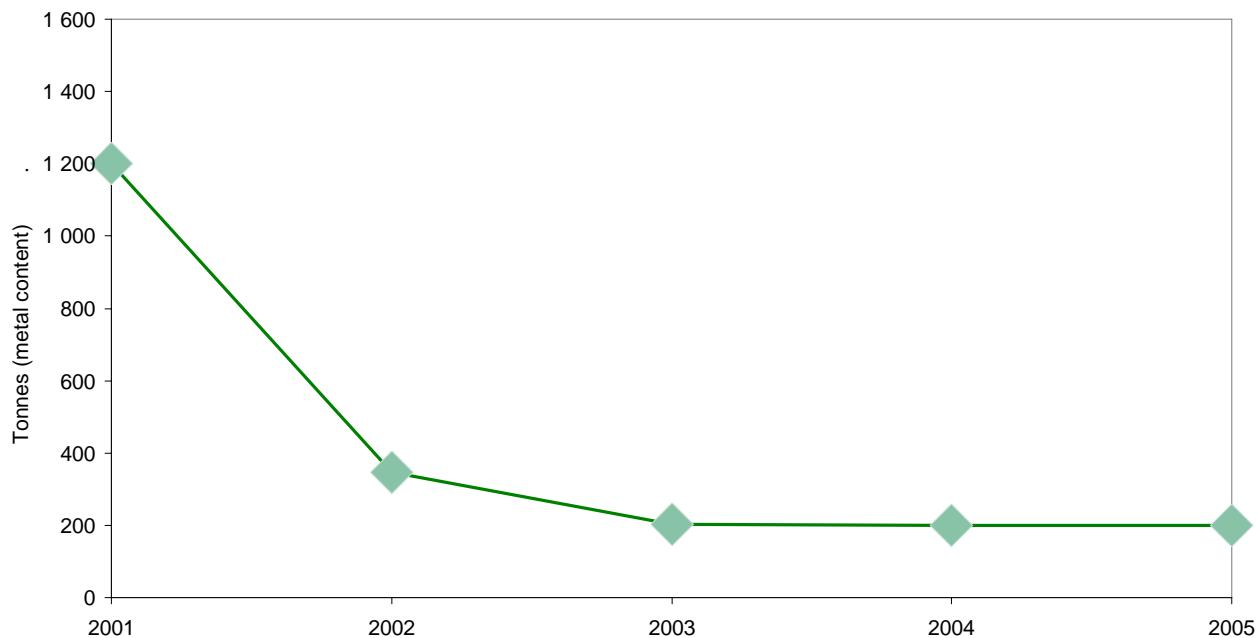
- Tin is a malleable and ductile metal that is resistant to corrosion. The chief use of tin is to coat metals that are more susceptible to corrosion, especially steel. It is also widely used as an alloying agent (i.e. with lead to make pewter) and its use in solders is rapidly growing as it replaces lead. Tin chemicals are used as fungicides and other biocides.
- World mine production is restricted to eighteen countries, of which China and Indonesia were jointly the largest producers during 2005, each with 36% of the world total. There is minor EU31 production from Portugal.
- Following a 15-year high of more than \$9000/tonne in 2004, the tin price started 2005 around \$7680/tonne, reaching more than \$8000/tonne in May before dropping back to a 23-month low in November of around \$6150/tonne.

Mine production of tin

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------|-------|------|------|------|------|
| Portugal | 1 201 | 345 | 203 | 200 | 200 |

EU31 Mine production of tin 2001 - 05



Exports of tin

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|-------|-------|
| Austria | | | | | |
| Unwrought (a) | 80 | 115 | 151 | 153 | 116 |
| Scrap | 206 | 363 | 153 | 278 | 62 |
| Belgium-Luxembourg | | | | | |
| Unwrought | 7 897 | 8 883 | 7 538 | 8 803 | 6 814 |
| Unwrought alloys | 338 | 138 | 171 | 184 | 388 |
| Scrap | 116 | 28 | 601 | 607 | 362 |
| Czech Republic | | | | | |
| Unwrought (a) | 38 | 20 | 66 | 191 | 381 |
| Denmark | | | | | |
| Scrap | 94 | 90 | 110 | 178 | 68 |
| Estonia | | | | | |
| Scrap | 54 | 18 | 8 | 7 | 125 |
| Finland | | | | | |
| Unwrought alloys | 91 | 33 | 9 | 46 | 60 |
| Scrap | 83 | 104 | 126 | 86 | 58 |

Tin

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|-------|-------|-------|-------|--------|
| France | | | | | |
| Unwrought | 350 | 354 | 577 | 430 | 324 |
| Unwrought alloys | 627 | 659 | 612 | 527 | 1 020 |
| Scrap | 1 484 | 618 | 279 | 457 | 478 |
| Germany | | | | | |
| Unwrought | 1 089 | 1 137 | 909 | 978 | 1 343 |
| Unwrought alloys | 1 178 | 1 077 | 481 | 408 | 329 |
| Scrap | 507 | 719 | 849 | 994 | 701 |
| Irish Republic | | | | | |
| Unwrought (a) | 281 | 77 | 29 | 103 | 67 |
| Scrap | 304 | 109 | 21 | 140 | ... |
| Italy | | | | | |
| Unwrought (a) | 268 | 497 | 458 | 406 | 503 |
| Scrap | 222 | 191 | 201 | 180 | 17 |
| Netherlands | | | | | |
| Unwrought | 1 845 | 4 138 | 4 278 | 3 921 | 5 330 |
| Unwrought alloys | 102 | 205 | 240 | 1 430 | 1 790 |
| Scrap | 511 | 643 | 344 | 685 | 297 |
| Portugal | | | | | |
| Concentrates | 2 395 | 537 | 266 | 147 | — |
| Spain | | | | | |
| Unwrought (a) | 218 | 738 | 179 | 205 | 139 |
| Scrap | 111 | 1 169 | 198 | 221 | 435 |
| Sweden | | | | | |
| Unwrought (a) | 329 | 313 | 238 | 261 | 217 |
| Scrap | 125 | 178 | 88 | 161 | 45 |
| Switzerland | | | | | |
| Unwrought (a) | 84 | 25 | 112 | 72 | 29 |
| Scrap | 105 | 60 | 73 | 107 | 157 |
| United Kingdom | | | | | |
| Concentrates | 59 | 24 | 29 | 0 | 2 |
| Unwrought | 426 | 381 | 283 | 524 | 1 608 |
| Unwrought alloys | 2 485 | 2 165 | 2 152 | 885 | 442 |
| Scrap | 2 256 | 2 821 | 4 499 | 7 353 | 20 603 |

Note(s):-

(1) In this table the term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc.

(a) Including alloys

Imports of tin

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------|-------|-------|-------|-------|
| Austria | | | | | |
| Unwrought (a) | 838 | 906 | 702 | 765 | 1 926 |
| Scrap | 186 | 208 | 174 | 170 | 79 |
| Belgium-Luxembourg | | | | | |
| Unwrought | 1 050 | 1 223 | 490 | 1 686 | 1 210 |
| Unwrought alloys | 2 208 | 2 464 | 2 737 | 3 421 | 1 284 |
| Scrap | 3 312 | 4 756 | 4 816 | 5 726 | 1 382 |
| Croatia | | | | | |
| Unwrought (a) | 114 | 89 | 95 | 67 | 62 |
| Czech Republic | | | | | |
| Unwrought (a) | 592 | 531 | 635 | 550 | 634 |
| Estonia | | | | | |
| Unwrought | 301 | ... | 12 | 16 | 6 |
| Finland | | | | | |
| Unwrought (a) | 199 | 149 | 151 | 126 | 178 |
| France | | | | | |
| Unwrought | 8 637 | 9 044 | 9 693 | 9 167 | 7 307 |
| Unwrought alloys | 409 | 169 | 701 | 638 | 1 080 |
| Scrap | 1 555 | 541 | 148 | 24 | 217 |

Tin

Imports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|------------------|--------|--------|--------|--------|--------|
| Germany | | | | | |
| Unwrought | 23 984 | 20 524 | 20 904 | 21 258 | 20 438 |
| Unwrought alloys | 847 | 744 | 381 | 453 | 554 |
| Scrap | 681 | 400 | 505 | 408 | 506 |
| Greece | | | | | |
| Unwrought (a) | 503 | 382 | 598 | 671 | 615 |
| Hungary | | | | | |
| Unwrought (a) | 292 | 219 | 91 | 155 | 192 |
| Irish Republic | | | | | |
| Unwrought (a) | 655 | 271 | 171 | 462 | 307 |
| Italy | | | | | |
| Unwrought | 6 171 | 6 507 | 6 201 | 5 610 | 5 899 |
| Unwrought alloys | 204 | 190 | 105 | 95 | 135 |
| Netherlands | | | | | |
| Unwrought | 4 346 | 7 008 | 7 368 | 6 801 | 8 730 |
| Unwrought alloys | 1 007 | 1 162 | 1 330 | 1 832 | 1 983 |
| Scrap | 609 | 388 | 202 | 155 | 201 |
| Norway | | | | | |
| Unwrought | 560 | 458 | 382 | 47 | 21 |
| Unwrought alloys | 111 | 176 | 71 | 79 | 57 |
| Poland | | | | | |
| Unwrought (a) | 1 010 | 1 344 | 1 077 | 1 367 | 1 437 |
| Scrap | ... | ... | ... | 697 | 705 |
| Portugal | | | | | |
| Unwrought | 780 | 1 223 | 781 | 434 | 971 |
| Unwrought alloys | 210 | 29 | 63 | 71 | 100 |
| Romania | | | | | |
| Unwrought (a) | 333 | 245 | 291 | 188 | 216 |
| Slovakia | | | | | |
| Unwrought (a) | 624 | 800 | 1 091 | 2 034 | 2 610 |
| Spain | | | | | |
| Concentrates | 399 | 225 | 101 | 160 | 137 |
| Unwrought | 6 313 | 6 967 | 8 072 | 7 860 | 7 109 |
| Unwrought alloys | 175 | 58 | 90 | 292 | 170 |
| Scrap | 2 830 | 4 842 | 2 400 | 2 111 | 1 919 |
| Sweden | | | | | |
| Unwrought | 608 | 596 | 421 | 468 | 551 |
| Unwrought alloys | 364 | 400 | 379 | 256 | 210 |
| Scrap | 130 | 57 | 71 | 39 | 60 |
| Switzerland | | | | | |
| Unwrought (a) | 1 017 | 893 | 803 | 726 | 909 |
| Turkey | | | | | |
| Unwrought (a) | 1 275 | 1 801 | 1 966 | 2 314 | 2 731 |
| United Kingdom | | | | | |
| Unwrought | 6 857 | 7 151 | 7 488 | 5 861 | 4 812 |
| Unwrought alloys | 2 442 | 1 437 | 2 378 | 1 145 | 2 067 |
| Scrap | 179 | 188 | 168 | 215 | 468 |

Note(s) :-

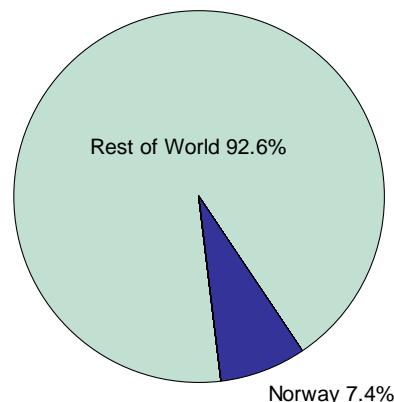
(1) In this table the term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc.

(a) Including alloys

Titanium minerals

- The titanium minerals ilmenite and rutile are the main sources of titanium, a low density, strong and corrosion resistant metal that is important in the aerospace industry. However, the chief use (94%) of titanium minerals is in the form of titanium dioxide, a white pigment used in paint, plastics, rubber and paper.
- In 2005 Canada was the world's largest producer of titanium minerals; Australia and South Africa were also major producers. EU31 production is restricted to Norway, which produced about 7% of the world total in 2005.
- At the close of 2005, ilmenite (Australian, min 54% TiO₂, FOB, bulk concentrates) traded at \$75/tonne–\$85/tonne. Rutile, which has a higher TiO₂ content (Australian concentrate, min. 95% TiO₂ FOB, bulk pigment grade), traded between \$430–\$480/tonne. Prices for titanium sponge escalated from US\$5.30/kg at the start of the year to \$30/kg by mid-year, before settling in the \$25-30/kg price range.

EU31 Production of titanium minerals 2005



Production of titanium minerals

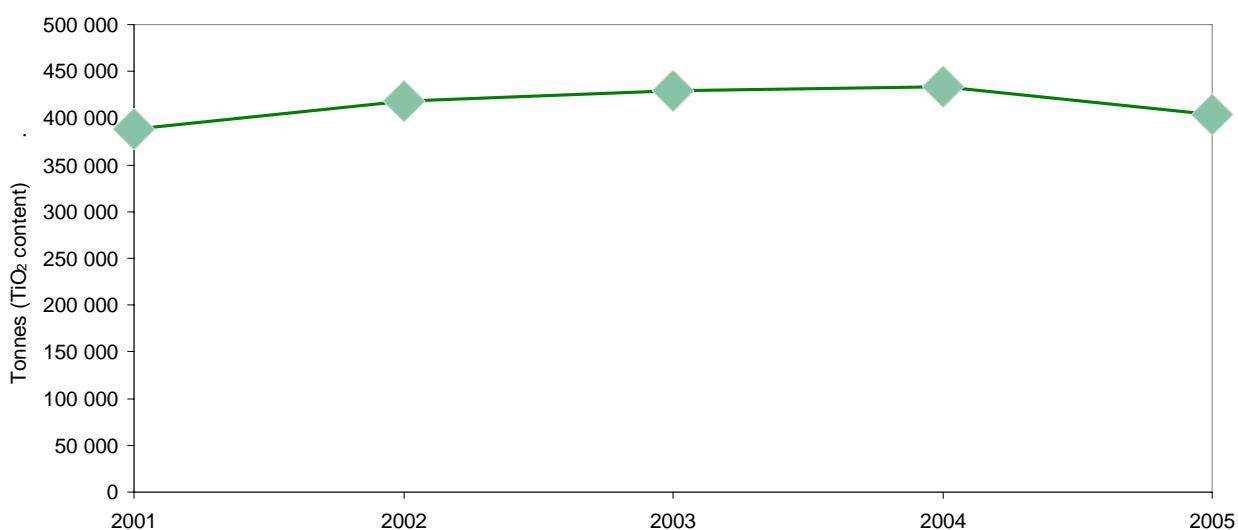
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------------------------|---------|---------|---------|---------|---------|
| Norway Ilmenite | 777 000 | 837 000 | 859 000 | 866 700 | 806 800 |
| EU31 Total (TiO ₂ content) | 389 000 | 419 000 | 430 000 | 433 000 | 403 000 |

Note(s):-

(1) The figures in this table refer to gross tonnage of titanium concentrates

EU31 Production of titanium minerals 2001 - 05



Exports of titanium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|-------------|----------|-------------|--------------|--------------|
| Austria | | | | | |
| Metal | 298 | 300 | 340 | 397 | 317 |
| Oxides | 2 876 | 3 000 | 2 404 | 2 640 | 3 457 |
| Belgium-Luxembourg | | | | | |
| Titanium minerals | 2 718 | 113 342 | 123 823 | 139 393 | 131 597 |
| Metal | 1 348 | 1 296 | 1 214 | 1 031 | 1 093 |
| Oxides | 286 659 | 314 469 | 348 005 | 397 481 | 366 632 |
| Czech Republic | | | | | |
| Metal | 59 | 82 | 239 | 191 | 358 |
| Oxides | 26 626 | 34 258 | 33 354 | 37 673 | 40 707 |
| Denmark | | | | | |
| Metal | 170 | 120 | 185 | 166 | 184 |
| Oxides | 1 128 | 1 000 | 578 | 1 304 | 1 136 |
| Estonia | | | | | |
| Metal | 145 | 316 | 336 | 188 | 31 |
| Finland | | | | | |
| Metal | 109 | 26 | 30 | 22 | 44 |
| Oxides (a) | *128 700 | *127 000 | *84 000 | *98 000 | *105 000 |
| France | | | | | |
| Metal | 5 636 | 4 180 | 3 722 | 4 086 | 5 891 |
| Oxides | 180 271 | 199 744 | 180 080 | 172 796 | 157 543 |
| Germany | | | | | |
| Titanium minerals | 475 | 541 | 778 | 319 | 607 |
| Metal | 6 257 | 6 581 | 6 705 | 8 048 | 8 911 |
| Oxides | 290 191 | 323 059 | 331 806 | 356 007 | 359 946 |
| Greece | | | | | |
| Oxides | 1 380 | 1 412 | 1 624 | 1 835 | 2 373 |
| Italy | | | | | |
| Metal | 5 102 | 3 727 | 3 159 | 4 439 | 4 130 |
| Oxides | 24 393 | 28 434 | 28 323 | 28 476 | 25 433 |
| Latvia | | | | | |
| Metal | 180 | 16 | 45 | 61 | 6 |
| Netherlands | | | | | |
| Titanium minerals | 1 935 | 1 093 | 3 611 | 4 050 | 1 390 |
| Metal | 1 532 | 2 344 | 2 015 | 1 846 | 2 181 |
| Oxides | (a) *68 100 | 80 663 | (a) *65 100 | 92 050 | 84 310 |
| Norway | | | | | |
| Titanium minerals | 429 000 | 443 833 | 500 000 | (a) *416 000 | (a) *382 000 |
| Metal | 117 | 103 | 214 | 182 | 159 |
| Oxides (a) | *231 000 | *240 000 | *229 000 | *193 000 | *177 000 |
| Poland | | | | | |
| Oxides | 24 215 | 30 457 | 23 977 | 20 818 | 24 394 |
| Romania | | | | | |
| Metal | 23 | 80 | 94 | 277 | 255 |
| Slovenia | | | | | |
| Oxides | 32 782 | 38 484 | 35 655 | 38 497 | 44 123 |
| Spain | | | | | |
| Metal | 434 | 376 | 697 | 483 | 903 |
| Oxides | 79 643 | 73 320 | 70 052 | 85 867 | 83 905 |
| Sweden | | | | | |
| Metal | 1 494 | 1 256 | 1 004 | 1 737 | 1 955 |
| Oxides | 13 653 | 11 058 | 11 713 | 13 912 | 14 306 |
| Switzerland | | | | | |
| Metal | 465 | 400 | 398 | 562 | 560 |
| Oxides | 525 | 666 | 499 | 740 | 1 020 |
| Turkey | | | | | |
| Metal | 92 | 2 | 7 | 20 | 30 |
| United Kingdom | | | | | |
| Metal | 13 597 | 11 511 | 10 084 | 11 913 | 17 212 |
| Oxides | 207 483 | 238 884 | 242 541 | 234 591 | 215 741 |

Note(s):-

- (1) Significant quantities of titanium slag are traded, but it is not always possible to identify this material in national trade accounts
 (2) So far as possible, the term 'oxides', as used in this table, includes oxides and oxide based pigments classified under Harmonised System items 2823 and 3206.10
 (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys
 (a) BGS estimates, based on known imports into certain countries

Imports of titanium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|---------|---------|---------|-------------|-------------|
| Austria | | | | | |
| Metal | 1 594 | 1 062 | 441 | 943 | 1 691 |
| Oxides | 19 343 | 19 478 | 18 528 | 18 612 | 25 640 |
| Belgium-Luxembourg | | | | | |
| Ilmenite | 71 | 9 889 | 11 632 | ... | — |
| Other titanium minerals | 56 785 | 132 921 | 164 624 | 165 288 | 165 711 |
| Titanium slag | 44 909 | 41 594 | ... | ... | ... |
| Metal | 1 791 | 1 516 | 1 712 | 1 868 | 2 289 |
| Oxides | 224 507 | 271 627 | 272 441 | 339 444 | 291 670 |
| Bulgaria | | | | | |
| Titanium minerals | 535 | 653 | 2 979 | 407 | 1 287 |
| Oxides | 2 646 | 2 448 | 3 156 | 3 332 | 3 959 |
| Croatia | | | | | |
| Oxides | 2 142 | 2 081 | 2 327 | 2 401 | 2 561 |
| Cyprus | | | | | |
| Oxides | 859 | 1 032 | 1 172 | 1 172 | 1 286 |
| Czech Republic | | | | | |
| Titanium minerals | 78 515 | 60 976 | 74 709 | 53 570 | 80 407 |
| Metal | 111 | 372 | 620 | 800 | 1 143 |
| Oxides | 4 394 | 4 307 | 5 462 | 6 773 | 8 008 |
| Denmark | | | | | |
| Metal | 891 | 737 | 745 | 778 | 770 |
| Oxides | 20 799 | 23 967 | 21 022 | 22 269 | 23 156 |
| Estonia | | | | | |
| Metal | 57 | 302 | 234 | 113 | 216 |
| Oxides | 1 273 | 1 090 | 1 082 | 235 | 1 344 |
| Finland | | | | | |
| Metal | 112 | 84 | 107 | 258 | 121 |
| Oxides | 9 007 | 10 335 | 11 390 | 13 163 | 14 380 |
| France | | | | | |
| Ilmenite | 112 466 | 151 799 | 127 083 | 48 930 | 60 205 |
| Other titanium minerals | 41 040 | 12 291 | 34 984 | 81 141 | 86 552 |
| Titanium slag | 256 420 | 123 144 | ... | 61 456 | 111 137 |
| Metal | 8 459 | 6 461 | 5 689 | 8 259 | 9 403 |
| Oxides | 127 843 | 138 316 | 151 809 | 140 068 | 119 699 |
| Germany | | | | | |
| Ilmenite | 272 849 | 307 791 | 349 819 | 315 214 | 333 603 |
| Other titanium minerals | 132 952 | 131 844 | 175 660 | 225 849 | 224 675 |
| Titanium slag | 137 542 | 52 787 | 41 319 | — | — |
| Metal | 9 774 | 10 532 | 10 044 | 14 756 | 15 978 |
| Oxides | 189 674 | 192 414 | 211 539 | 237 464 | 240 554 |
| Greece | | | | | |
| Titanium minerals | 529 | 816 | 313 | 563 | 528 |
| Oxides | 18 389 | 17 646 | 22 801 | 27 241 | 25 592 |
| Hungary | | | | | |
| Metal | 49 | 215 | 367 | 387 | 107 |
| Oxides | 6 976 | 7 941 | 8 247 | 8 677 | 7 523 |
| Irish Republic | | | | | |
| Oxides | 3 931 | 5 070 | 5 095 | 5 685 | 5 059 |
| Italy | | | | | |
| Titanium minerals | 112 828 | 99 830 | 123 862 | 88 361 | 85 607 |
| Metal | 6 126 | 5 052 | 4 738 | 6 580 | 5 186 |
| Oxides | 149 841 | 157 476 | 149 238 | 158 592 | 154 950 |
| Latvia | | | | | |
| Oxides | 998 | 1 132 | 2 032 | 1 232 | 726 |
| Netherlands | | | | | |
| Ilmenite | 33 524 | 40 286 | 46 568 | ... | ... |
| Other titanium minerals | 70 438 | 64 024 | 76 539 | (a) 154 460 | (a) 127 941 |
| Titanium slag | 9 848 | ... | ... | ... | ... |
| Metal | 3 099 | 2 806 | 2 676 | 2 835 | 1 857 |
| Oxides | 47 008 | 44 525 | 33 290 | 47 957 | 92 334 |
| Norway | | | | | |
| Titanium minerals | ... | ... | ... | ... | 33 000 |
| Metal | 623 | 386 | 557 | 505 | 636 |
| Oxides | 9 617 | 7 931 | 8 729 | 10 026 | 11 924 |

Titanium

Imports continued

tonnes

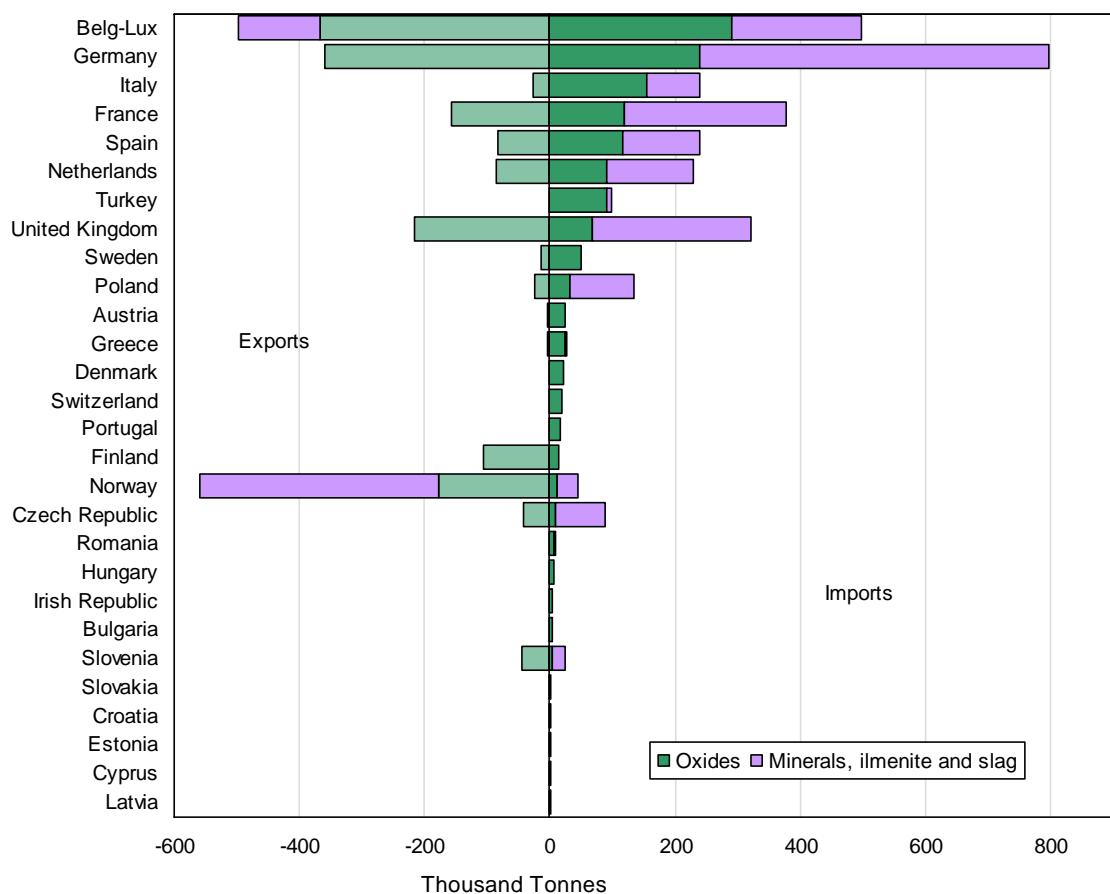
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-------------------------|---------|---------|---------|---------|---------|
| Poland | | | | | |
| Titanium minerals | 95 674 | 73 655 | 101 284 | 98 214 | 100 539 |
| Metal | 182 | 163 | 151 | 271 | 328 |
| Oxides | 24 027 | 30 029 | 30 546 | 29 710 | 33 417 |
| Portugal | | | | | |
| Oxides | 17 341 | 20 230 | 18 922 | 20 120 | 17 458 |
| Romania | | | | | |
| Titanium minerals | 2 544 | 1 993 | 2 192 | 2 334 | 2 111 |
| Oxides | 4 621 | 4 742 | 5 454 | 6 378 | 7 600 |
| Slovakia | | | | | |
| Metal | 142 | 103 | 111 | 101 | 980 |
| Oxides | 530 | 429 | 2 701 | 2 173 | 2 804 |
| Slovenia | | | | | |
| Titanium minerals | 18 676 | 7 805 | 24 652 | 11 610 | 21 054 |
| Metal | 68 | 127 | 118 | 300 | 614 |
| Oxides | 2 282 | 2 936 | 3 219 | 3 033 | 3 157 |
| Spain | | | | | |
| Ilmenite | 130 991 | 153 688 | 128 692 | 172 431 | 121 204 |
| Other titanium minerals | 1 844 | 2 315 | 2 296 | 2 316 | 1 746 |
| Metal | 3 407 | 3 241 | 2 974 | 3 722 | 3 862 |
| Oxides | 99 887 | 107 418 | 100 814 | 116 397 | 117 203 |
| Sweden | | | | | |
| Metal | 1 929 | 2 000 | 1 707 | 1 856 | 1 382 |
| Oxides | 45 034 | 43 260 | 44 721 | 44 812 | 50 099 |
| Switzerland | | | | | |
| Metal | 641 | 621 | 535 | 735 | 1 273 |
| Oxides | 17 678 | 18 265 | 18 689 | 19 349 | 19 055 |
| Turkey | | | | | |
| Titanium minerals | 2 953 | 5 876 | 5 591 | 10 435 | 6 755 |
| Oxides | 38 734 | 61 927 | 68 613 | 85 832 | 91 083 |
| United Kingdom | | | | | |
| Ilmenite | 112 447 | 106 177 | 113 852 | 110 596 | 80 435 |
| Other titanium minerals | 110 526 | 82 303 | 111 754 | 113 852 | 109 238 |
| Titanium slag | 110 697 | 157 020 | 44 890 | 151 | 64 849 |
| Metal | 30 752 | 25 319 | 25 126 | 27 401 | 27 938 |
| Oxides | 82 852 | 95 583 | 74 138 | 74 787 | 67 102 |

Note(s) :-

- (1) Significant quantities of titanium slag are traded, but it is not always possible to identify this material in national trade accounts
- (2) So far as possible, the term 'oxides', as used in this table, includes oxides and oxide based pigments classified under Harmonised System items 2823 and 3206.10
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) Including ilmenite

Titanium – EU31 trade in 2005



Tungsten

- Tungsten is a corrosion-resistant metallic element with an extremely high melting point. Its largest use is as cemented carbides in cutting tools; it is also used as an alloying agent with steel to make high-speed tool steel, and in superalloys. Its most familiar use is in light bulb filaments.
- China's tungsten production in 2005 was 84% of the world total. There was minor production from Austria and Portugal but overall the EU31 is import dependent. Tungsten is traded in several forms but the bulk of exports were from China, and thus the largest component of international trade was of ammonium paratungstate (APT).
- Strong demand for tungsten during 2005 resulted in steep price increases for tungsten concentrates, ammonium paratungstate and ferrotungsten. The average monthly price for tungsten concentrate in 2005 varied from \$61/metric tonne unit (mtu) to \$231/mtu. Annual average prices for ammonium paratungstate were considerably higher than in 2004, trading in the range of \$104/mtu–\$226/mtu (1mtu = 10kg of tungsten trioxide, or 7.93kg of tungsten content).

Mine production of tungsten

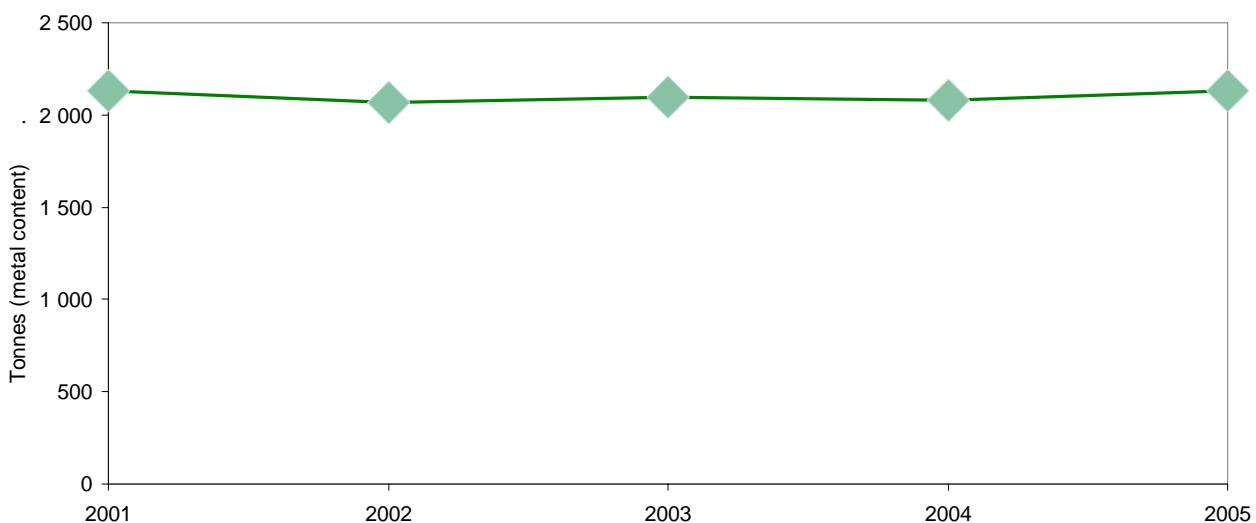
tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------|-------|-------|-------|-------|-------|
| Austria | 1 429 | 1 377 | 1 381 | 1 335 | 1 280 |
| Portugal (a) | 700 | 693 | 715 | 746 | 850 |
| EU31 Total | 2 129 | 2 070 | 2 096 | 2 081 | 2 130 |

Note(s):-

(a) Wolframite and scheelite

EU31 Mine production of tungsten 2001 - 05



Exports of tungsten

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|-------|-------|------------|------------|------------|
| Austria | | | | | |
| Metal | 967 | 813 | (a) *1 300 | (a) *2 400 | (a) *2 100 |
| Belgium-Luxembourg | | | | | |
| Metal | 448 | 259 | 374 | 404 | 452 |
| Carbide | 26 | 21 | 35 | 39 | 25 |
| Czech Republic | | | | | |
| Metal | 413 | 251 | 108 | 133 | 185 |
| Denmark | | | | | |
| Metal | 10 | 37 | 13 | 26 | 5 |
| Estonia | | | | | |
| Ores & concentrates | 71 | 2 | 127 | ... | ... |
| Metal | 307 | 4 | 196 | 1 | 3 |
| Finland | | | | | |
| Metal | 28 | 49 | 67 | 91 | 77 |
| France | | | | | |
| Metal | 911 | 624 | 538 | 571 | 574 |
| Carbide | 366 | 348 | 241 | 251 | 265 |
| Germany | | | | | |
| Metal | 2 418 | 1 735 | 2 209 | 2 816 | 4 020 |
| Hungary | | | | | |
| Metal | 53 | 74 | 56 | 64 | 24 |
| Irish Republic | | | | | |
| Metal | 96 | 38 | 41 | 72 | 963 |
| Italy | | | | | |
| Metal | 245 | 129 | 191 | 357 | 233 |
| Latvia | | | | | |
| Metal | ... | 42 | 84 | 32 | 4 |
| Netherlands | | | | | |
| Ores & concentrates | 55 | 16 | 1 | 16 | — |
| Metal | 380 | 469 | 237 | 777 | 502 |
| Poland | | | | | |
| Metal | 113 | 1 | 34 | 89 | 84 |
| Portugal | | | | | |
| Ores & concentrates | 914 | 588 | ... | 900 | 1 425 |
| Metal | 415 | 693 | 143 | 217 | 12 |
| Spain | | | | | |
| Metal | 56 | 109 | 158 | 141 | 77 |
| Sweden | | | | | |
| Metal | 32 | 364 | 334 | 102 | 414 |
| Carbide | 561 | 385 | 68 | 114 | 37 |
| Switzerland | | | | | |
| Metal | 121 | 185 | 244 | 268 | 316 |
| United Kingdom | | | | | |
| Metal | 1 874 | 1 667 | 2 053 | 1 267 | 1 732 |
| Carbide | 20 | 5 | 70 | 92 | 83 |

Note(s):-

- (1) Significant amounts of tungsten are traded in the forms of ammonium paratungstate (APT) and carbide. Though statistics are included where available, most countries do not separately distinguish these forms in their trade accounts
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) BGS estimates, based on known imports into certain countries

Imports of tungsten

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|-------|-------|-------|-------|-------|
| Austria | | | | | |
| Metal | 399 | 235 | 271 | 400 | 825 |
| Carbide | 703 | 399 | ... | ... | ... |
| Belgium-Luxembourg | | | | | |
| Metal | 405 | 279 | 404 | 372 | 340 |
| Carbide | 39 | 70 | 51 | 42 | 42 |
| Czech Republic | | | | | |
| Metal | 136 | 65 | 73 | 116 | 173 |
| Denmark | | | | | |
| Metal | 5 | 15 | 5 | 103 | 307 |
| Estonia | | | | | |
| Ores & concentrates | 68 | — | 121 | ... | ... |
| Metal | 408 | 2 | 130 | 3 | 1 |
| Finland | | | | | |
| Metal | 119 | 113 | 169 | 119 | 121 |
| France | | | | | |
| Metal | 889 | 422 | 448 | 568 | 784 |
| Carbide | 628 | 604 | 695 | 692 | 592 |
| Germany | | | | | |
| Ores & concentrates | 378 | 129 | 195 | 389 | 493 |
| Metal | 4 914 | 3 024 | 4 874 | 4 976 | 5 515 |
| Carbide | 1 664 | 1 103 | 1 419 | 1 520 | 1 802 |
| Irish Republic | | | | | |
| Metal | 45 | 152 | 331 | 177 | 292 |
| Italy | | | | | |
| Metal | 301 | 236 | 258 | 321 | 257 |
| Carbide | 363 | 324 | 318 | 299 | 337 |
| Netherlands | | | | | |
| Ores & concentrates | 144 | 195 | 342 | 222 | 110 |
| Metal | 584 | 80 | 217 | 210 | 204 |
| Carbide | 77 | 44 | 18 | 56 | 99 |
| Poland | | | | | |
| Metal | 276 | 68 | 42 | 46 | 108 |
| Portugal | | | | | |
| Metal | ... | 28 | 103 | 153 | 179 |
| Carbide | 82 | 79 | 96 | 109 | 105 |
| Spain | | | | | |
| Metal | 68 | 83 | 179 | 259 | 134 |
| Carbide | 77 | 64 | 48 | 59 | 38 |
| Sweden | | | | | |
| Metal | 990 | 136 | 470 | 559 | 502 |
| Carbide | 1 239 | 688 | 665 | 747 | 925 |
| Switzerland | | | | | |
| Metal | 220 | 152 | 139 | 170 | 235 |
| United Kingdom | | | | | |
| Metal | 2 538 | 2 121 | 1 932 | 1 903 | 3 204 |
| Carbide | 1 381 | 759 | 1 232 | 838 | 974 |

Note(s) :-

- (1) Significant amounts of tungsten are traded in the forms of ammonium paratungstate (APT) and carbide. Though statistics are included where available, most countries do not separately distinguish these forms in their trade accounts
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Vanadium

- Vanadium is a soft, ductile, metallic element that is very corrosion resistant. The chief use is as an additive in alloy steels where it imparts strength and corrosion resistance. Other uses are in titanium alloys and as a catalyst.
- Mine production is confined to five countries of which Russia (estimated 38%) and South Africa (35%) are the largest producers. There is no EU31 mine production. In the USA vanadium is a significant by-product from the refining of heavy crude oils.
- Vanadium is traded chiefly as vanadiferous slags and other residues, vanadium pentoxide and ferro-vanadium. In 2005 the European price for ferro-vanadium increased considerably, ranging from \$34–\$128/kg. US prices for domestic V₂O₅ ranged between \$7.50–\$27/lb in 2005, compared with \$2.75–\$9.80/lb in 2004.

Exports of vanadium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------------------|-------|-------|-------|-------|-------|
| Belgium-Luxembourg | | | | | |
| Vanadiferous residues | 4 408 | 3 414 | 3 129 | ... | ... |
| Ores & concentrates | ... | 218 | 748 | 1 456 | 2 600 |
| Pentoxide | 26 | 46 | 22 | 9 | 2 |
| Denmark | | | | | |
| Vanadium-titanium pig iron | 134 | 193 | ... | ... | ... |
| France | | | | | |
| Pentoxide | 10 | 8 | 183 | 138 | 13 |
| Metal | 0 | 0 | 0 | 26 | 25 |
| Germany | | | | | |
| Vanadiferous residues | 630 | ... | ... | ... | ... |
| Ores & concentrates | ... | ... | 127 | 1 060 | 4 680 |
| Pentoxide | 83 | 81 | 102 | 296 | ... |
| Metal | 359 | 351 | 483 | 522 | 1 469 |
| Italy | | | | | |
| Ores & concentrates | 3 964 | 2 401 | 1 691 | 1 267 | 1 092 |
| Netherlands | | | | | |
| Vanadiferous residues | 207 | ... | ... | ... | ... |
| Pentoxide | 253 | 87 | 219 | 1 167 | 381 |
| Metal | 179 | 71 | 379 | 5 | 11 |
| Turkey | | | | | |
| Pentoxide | ... | ... | 680 | 900 | 940 |
| United Kingdom | | | | | |
| Metal | 1 405 | 1 425 | 1 137 | 1 075 | 433 |

Note(s):-

- (1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any
(2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Imports of vanadium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|-----------------------|---------|---------|----------|------------|---------|
| Austria | | | | | |
| Vanadiferous residues | *26 000 | *25 000 | *25 000 | *27 000 | *29 000 |
| Ores & concentrates | 527 | 488 | 459 | 467 | 1 565 |
| Pentoxide | 1 477 | 1 042 | (a) *400 | (a) *1 000 | ... |
| Metal | 0 | 7 | 2 | 9 | — |
| Belgium-Luxembourg | | | | | |
| Vanadiferous residues | 1 286 | ... | ... | ... | ... |
| Ores & concentrates | ... | 483 | 1 379 | 1 116 | 894 |
| Pentoxide | 2 142 | 2 981 | 57 | 3 | 267 |
| Metal | 32 | 501 | 238 | 32 | 60 |
| Czech Republic | | | | | |
| Pentoxide | 5 172 | 4 162 | 4 898 | 5 429 | 3 831 |
| France | | | | | |
| Ores & concentrates | ... | 126 | 1 | ... | 21 |
| Pentoxide | 328 | 382 | 496 | 441 | 556 |
| Metal | 54 | 54 | 34 | 72 | 88 |
| Germany | | | | | |
| Pentoxide | 657 | 538 | 802 | 648 | 741 |
| Metal | 60 | 88 | 106 | 159 | 193 |
| Italy | | | | | |
| Pentoxide | 199 | 153 | 129 | 134 | 156 |
| Netherlands | | | | | |
| Vanadiferous residues | 251 | ... | ... | ... | ... |
| Pentoxide | 653 | 815 | 865 | 1 718 | 714 |
| Norway | | | | | |
| Metal | 51 | 41 | 55 | 32 | 10 |
| Slovenia | | | | | |
| Metal | 18 | 27 | 22 | 21 | 89 |
| Sweden | | | | | |
| Metal | 77 | 49 | 49 | 46 | 20 |
| United Kingdom | | | | | |
| Pentoxide | 319 | 962 | 363 | 306 | 339 |
| Metal | 381 | 171 | 256 | 338 | 812 |

Note(s) :-

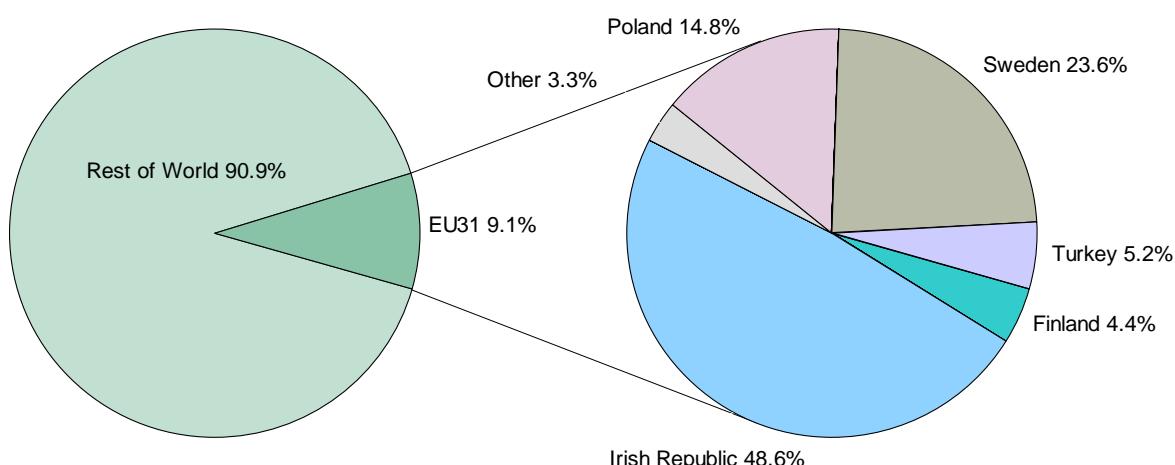
- (1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any
(2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) BGS estimates, based on known exports from certain countries

Zinc

- Zinc is a metal that is brittle at ordinary temperatures but malleable at temperatures above 100°C. It is corrosion resistant and this property is exploited in its chief use as a steel coating (galvanising). Its other main uses are as zinc die-castings and alloyed with copper to make brass, which is widely used in the electrical, engineering and construction industries.
- Zinc is produced by many countries from mines, or in refineries that process imported zinc concentrates. China (25%) was the world's largest mine producer during 2005. The Irish Republic was the largest mine producer in the EU31 (49%). A number of EU31 countries have major zinc refineries.
- The average zinc price for 2005 reached US\$1382/tonne, an increase of 32% from \$1047/tonne in 2004. At the beginning of 2005 zinc on the LME was trading around \$1250/tonne. Prices increased steadily throughout the rest of the year reaching a five-year high in December of \$1915/tonne.

EU31 Mine production of zinc 2005

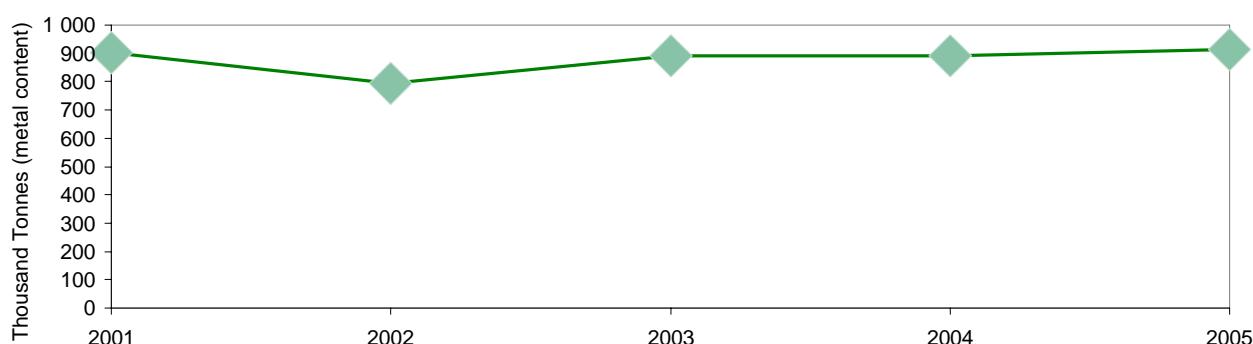


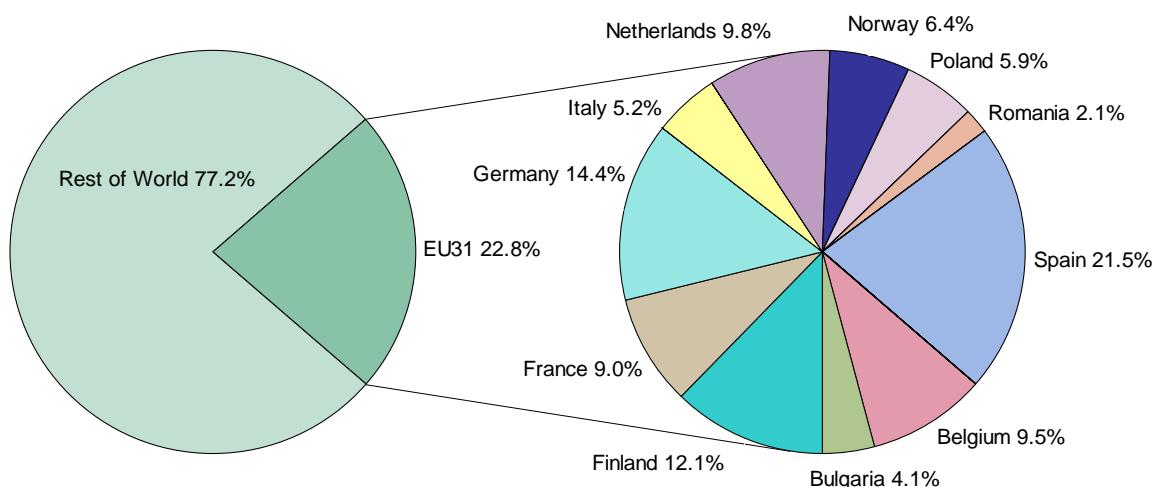
Mine production of zinc

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Bulgaria | 10 600 | 12 900 | 13 000 | 15 548 | 12 700 |
| Finland | 20 100 | 34 100 | 38 800 | 37 200 | 40 500 |
| Greece | 31 737 | 35 000 | 3 000 | — | 4 000 |
| Irish Republic | 298 100 | 276 700 | 419 000 | 438 300 | 445 400 |
| Poland | 152 700 | 152 100 | 154 277 | 140 381 | 135 600 |
| Romania | 29 786 | 21 512 | 22 081 | 23 599 | 13 784 |
| Spain | 165 568 | 69 926 | 15 140 | — | — |
| Sweden | 156 334 | 148 620 | 185 884 | 197 034 | 215 691 |
| Turkey | 36 000 | 43 000 | 40 000 | 39 000 | 48 000 |
| EU31 Total | 901 000 | 794 000 | 891 000 | 891 000 | 916 000 |

EU31 Mine production of zinc 2001 - 05



EU31 Production of slab zinc 2005**Production of slab zinc**

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|-----------|-----------|-----------|-----------|-----------|
| Belgium | 256 400 | 238 700 | 244 400 | 272 500 | 222 000 |
| Bulgaria | 88 000 | 83 000 | 86 800 | 101 500 | 95 100 |
| Finland | 248 800 | 235 300 | 265 900 | 284 525 | 281 904 |
| France | 328 900 | 333 300 | 257 000 | 260 000 | 209 000 |
| Germany | 361 348 | 378 561 | 388 131 | 382 020 | 334 900 |
| Italy | 178 600 | 175 800 | 123 100 | 118 400 | 121 200 |
| Netherlands | 204 794 | 203 460 | 224 000 | 224 000 | 227 500 |
| Norway | 144 694 | 144 538 | 143 627 | 140 901 | 148 000 |
| Poland | 174 700 | 158 900 | 154 200 | 155 500 | 137 300 |
| Romania | 48 000 | 38 000 | 51 000 | 52 746 | 49 447 |
| Spain | 437 000 | 503 000 | 519 000 | 525 000 | 501 400 |
| United Kingdom | 99 600 | 99 600 | 16 600 | — | — |
| EU31 Total | 2 571 000 | 2 592 000 | 2 474 000 | 2 517 000 | 2 328 000 |

EU31 Production of slab zinc 2001 - 05

Exports of zinc

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Unwrought (a) | 15 461 | 34 705 | 36 012 | 37 304 | 13 469 |
| Scrap | 2 089 | 3 763 | 2 984 | 2 000 | 3 559 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 332 101 | 101 157 | 232 845 | 384 652 | 511 730 |
| Unwrought | 89 817 | 114 430 | 130 356 | 136 768 | 10 058 |
| Scrap | 22 938 | 28 597 | 19 485 | 26 546 | 37 754 |
| Bulgaria | | | | | |
| Unwrought (a) | 73 362 | 70 967 | 74 801 | 89 287 | 82 902 |
| Czech Republic | | | | | |
| Unwrought (a) | 1 619 | 1 253 | 1 670 | 5 659 | 7 865 |
| Scrap | 2 267 | 2 325 | 2 247 | 2 976 | 2 498 |
| Denmark | | | | | |
| Scrap | 7 178 | 9 263 | 5 543 | 2 336 | 3 538 |
| Estonia | | | | | |
| Scrap | 1 429 | 1 408 | 1 612 | 1 146 | 539 |
| Finland | | | | | |
| Unwrought | 175 402 | 186 916 | 212 125 | 235 735 | 235 320 |
| Unwrought alloys | 206 | 105 | 97 | 436 | 83 |
| Scrap | 8 159 | 7 324 | 5 195 | 2 281 | 2 116 |
| France | | | | | |
| Ores & concentrates | 18 305 | 17 775 | 37 167 | 38 779 | 39 463 |
| Unwrought | 127 252 | 143 307 | 109 839 | 115 352 | 80 472 |
| Unwrought alloys | 30 971 | 31 535 | 31 625 | 35 879 | 33 940 |
| Scrap | 42 470 | 33 611 | 38 294 | 56 440 | 63 571 |
| Germany | | | | | |
| Ores & concentrates | 62 741 | 43 050 | 4 741 | 695 | 7 257 |
| Unwrought | 71 859 | 95 493 | 104 982 | 91 123 | 81 664 |
| Unwrought alloys | 38 250 | 40 259 | 38 710 | 37 762 | 30 115 |
| Scrap | 47 388 | 40 684 | 47 414 | 52 545 | 55 913 |
| Greece | | | | | |
| Ores & concentrates | 57 166 | 65 084 | 0 | 0 | 3 276 |
| Unwrought (a) | 82 848 | 671 | 1 076 | 709 | 334 |
| Scrap | 120 | 172 | 683 | 709 | 517 |
| Hungary | | | | | |
| Unwrought | 1 032 | 997 | 921 | 3 798 | 415 |
| Scrap | 2 837 | 2 202 | 2 794 | 3 571 | 3 938 |
| Irish Republic | | | | | |
| Ores & concentrates | 381 072 | 161 452 | 439 247 | 564 018 | 522 312 |
| Scrap | 296 | 235 | 298 | 450 | 684 |
| Italy | | | | | |
| Ores & concentrates | 37 107 | 21 429 | 61 273 | 93 317 | 96 439 |
| Unwrought | 6 624 | 2 250 | 2 761 | 2 331 | 9 230 |
| Unwrought alloys | 5 002 | 6 520 | 6 914 | 3 523 | 2 854 |
| Scrap | 9 793 | 12 762 | 17 313 | 15 157 | 13 652 |
| Netherlands | | | | | |
| Unwrought | 252 993 | 187 416 | 277 262 | 265 840 | 273 832 |
| Unwrought alloys | 90 | 4 234 | 7 571 | 19 867 | 9 364 |
| Scrap | 21 496 | 16 093 | 24 856 | 32 684 | 41 593 |
| Norway | | | | | |
| Unwrought | 113 170 | 133 006 | 125 896 | 127 410 | 134 690 |
| Unwrought alloys | 13 990 | 6 704 | 6 245 | 6 710 | 5 600 |
| Poland | | | | | |
| Ores & concentrates | 29 223 | 61 378 | 64 486 | 44 257 | 63 913 |
| Unwrought | 86 067 | 78 497 | 65 661 | 72 820 | 74 938 |
| Unwrought alloys | 2 391 | 1 844 | 1 330 | 850 | 857 |
| Scrap | 2 497 | 1 463 | 136 | 269 | 797 |
| Portugal | | | | | |
| Scrap | 682 | 1 001 | 1 198 | 1 855 | 2 050 |
| Romania | | | | | |
| Ores & concentrates | 60 681 | 59 456 | 99 978 | 31 665 | 26 611 |
| Unwrought | 44 984 | 34 261 | 49 234 | 42 968 | 42 013 |
| Scrap | ... | ... | ... | ... | 1 073 |

Zinc

Exports continued

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|---------|---------|---------|---------|---------|
| Sweden | | | | | |
| Ores & concentrates | 261 909 | 283 701 | 305 058 | 379 155 | 372 925 |
| Unwrought (a) | 494 | 629 | 496 | 280 | 165 |
| Scrap | 13 546 | 23 833 | 42 715 | 21 598 | 16 134 |
| Switzerland | | | | | |
| Scrap | 2 405 | 2 358 | 2 415 | 2 582 | 2 480 |
| Turkey | | | | | |
| Ores & concentrates | 85 661 | 100 445 | 97 605 | 110 692 | 138 288 |
| Unwrought (a) | 2 367 | 2 579 | 315 | 302 | 227 |
| Scrap | ... | ... | 4 293 | 2 318 | 53 |
| United Kingdom | | | | | |
| Unwrought | 15 455 | 15 686 | 3 106 | 1 581 | 1 661 |
| Unwrought alloys | 21 971 | 22 366 | 21 770 | 26 260 | 38 267 |
| Scrap | 19 157 | 15 248 | 15 436 | 9 710 | 9 881 |

Note(s):-

(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc.

(a) Including alloys

Imports of zinc

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|------------|------------|------------|------------|-----------|
| Austria | | | | | |
| Unwrought | 54 380 | 51 331 | 58 968 | 47 866 | 58 838 |
| Unwrought alloys | 22 617 | 23 414 | 24 621 | 31 444 | 28 955 |
| Scrap | 1 233 | 1 774 | 1 643 | 2 035 | 609 |
| Belgium-Luxembourg | | | | | |
| Ores & concentrates | 824 825 | 864 008 | 1 189 103 | 1 410 560 | 1 182 083 |
| Unwrought | 233 322 | 236 971 | 244 081 | 261 216 | 46 505 |
| Unwrought alloys | 910 | 4 767 | 2 649 | 13 872 | 35 653 |
| Scrap | 50 156 | 60 893 | 42 424 | 42 534 | 44 890 |
| Bulgaria | | | | | |
| Ores & concentrates | 124 895 | 120 409 | 149 957 | 167 098 | 149 735 |
| Unwrought (a) | 2 299 | 3 049 | 4 146 | 4 285 | 1 450 |
| Croatia | | | | | |
| Unwrought (a) | 2 816 | 3 006 | 5 324 | 3 516 | 3 329 |
| Czech Republic | | | | | |
| Unwrought | (a) 27 142 | (a) 26 929 | (a) 28 748 | (a) 34 205 | 28 263 |
| Unwrought alloys | ... | ... | ... | ... | 8 039 |
| Denmark | | | | | |
| Unwrought | 10 537 | 11 031 | 10 761 | 10 813 | 9 855 |
| Unwrought alloys | 5 070 | 3 030 | 1 647 | 1 548 | 1 457 |
| Estonia | | | | | |
| Unwrought (a) | 498 | ... | 10 578 | 17 468 | 9 105 |
| Scrap | 6 568 | 5 245 | 4 473 | 191 | 18 |
| Finland | | | | | |
| Ores & concentrates | 422 274 | 433 196 | 436 345 | 479 603 | 499 024 |
| Unwrought alloys | ... | ... | ... | ... | 1 218 |
| Scrap | 1 882 | 2 030 | 2 511 | 395 | 711 |
| France | | | | | |
| Ores & concentrates | 574 312 | 558 771 | 482 493 | 458 760 | 423 664 |
| Unwrought | 126 795 | 98 355 | 115 491 | 103 037 | 143 476 |
| Unwrought alloys | 39 967 | 32 740 | 34 874 | 56 492 | 45 566 |
| Scrap | 13 265 | 11 144 | 8 203 | 6 046 | 6 996 |
| Germany | | | | | |
| Ores & concentrates | 316 009 | 319 996 | 340 244 | 480 355 | 401 829 |
| Unwrought | 261 517 | 231 495 | 253 892 | 248 654 | 245 794 |
| Unwrought alloys | 79 743 | 77 600 | 100 172 | 83 556 | 76 981 |
| Scrap | 21 487 | 34 083 | 26 647 | 23 997 | 22 480 |
| Greece | | | | | |
| Unwrought (a) | 31 737 | 26 052 | 24 982 | 29 255 | 20 110 |

Imports continued

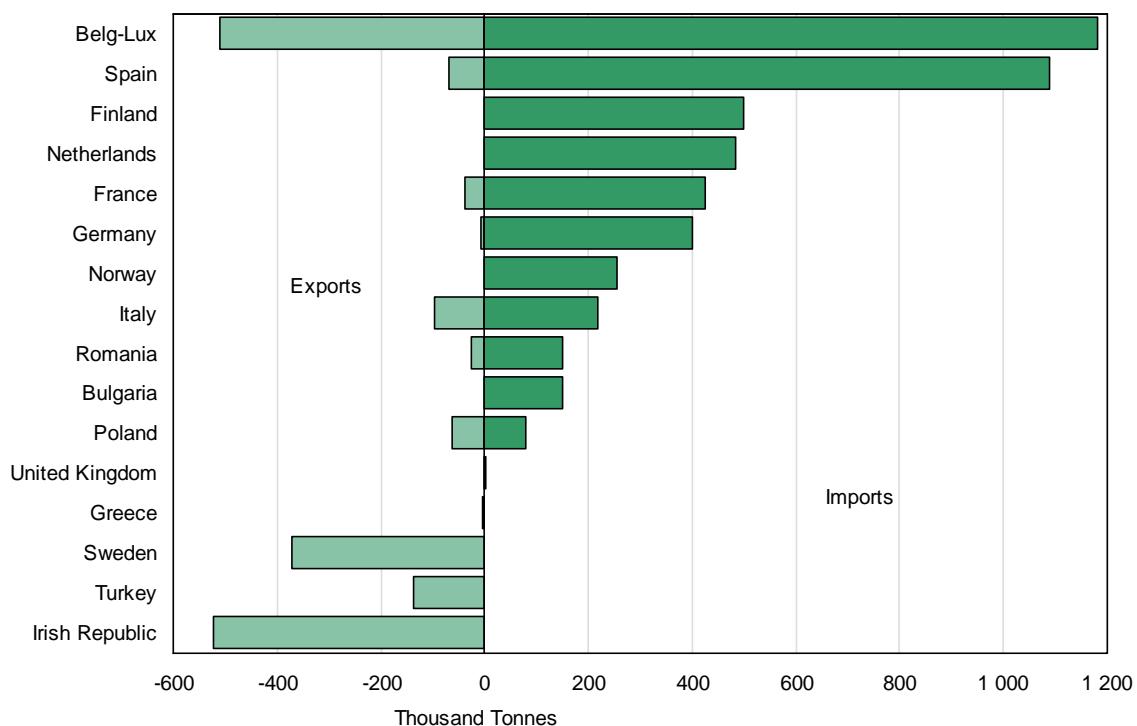
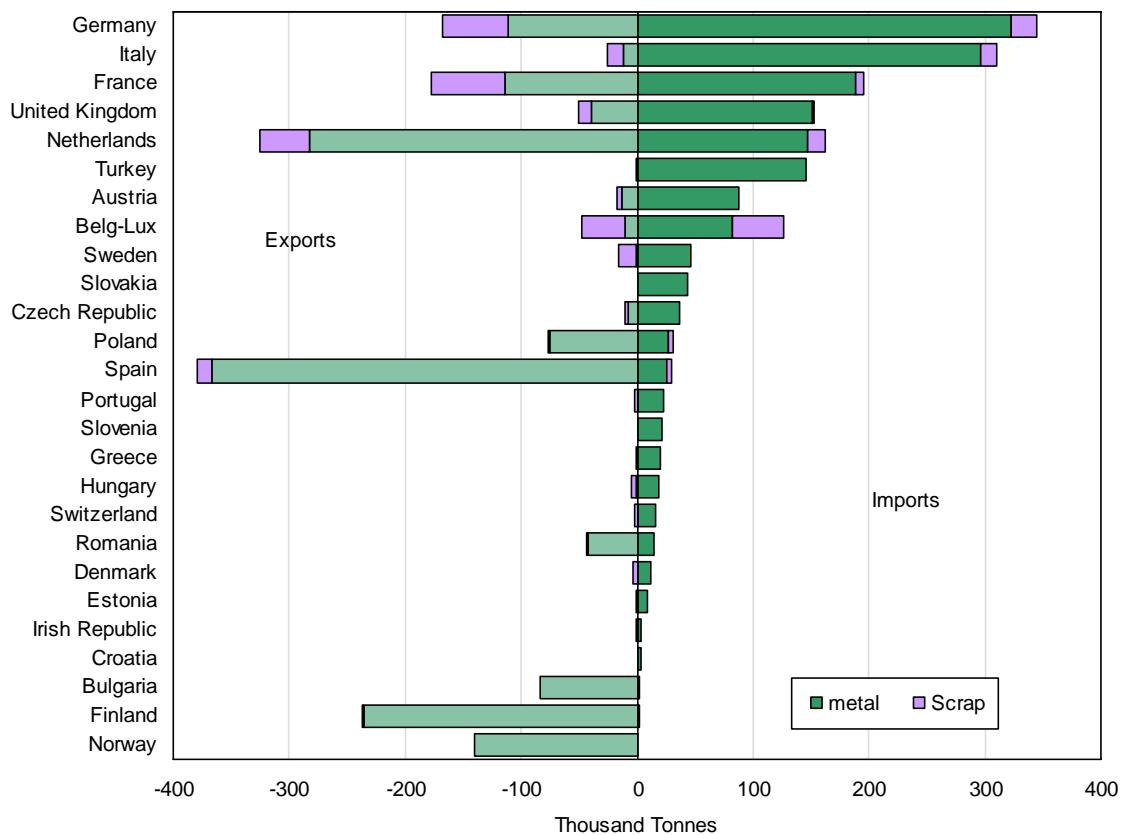
tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------------------|------------|-------------|-------------|-------------|-----------|
| Hungary | | | | | |
| Unwrought (a) | 23 615 | 23 295 | 16 900 | 15 779 | 14 529 |
| Unwrought alloys | ... | ... | ... | ... | 4 326 |
| Irish Republic | | | | | |
| Unwrought (a) | 3 668 | 5 699 | 4 241 | 2 956 | 3 629 |
| Italy | | | | | |
| Ores & concentrates | 311 767 | 283 804 | 191 369 | 249 978 | 219 491 |
| Unwrought | 175 658 | 201 905 | 226 245 | 273 146 | 261 192 |
| Unwrought alloys | 42 197 | 31 361 | 28 659 | 35 835 | 34 929 |
| Scrap | 21 985 | 15 509 | 14 095 | 15 991 | 14 172 |
| Latvia | | | | | |
| Unwrought (a) | 747 | 753 | 895 | 1 172 | 654 |
| Netherlands | | | | | |
| Ores & concentrates | 299 374 | 375 646 | 430 349 | 408 032 | 484 472 |
| Unwrought | 152 500 | 126 816 | 160 793 | 143 218 | 144 592 |
| Unwrought alloys | 1 536 | 7 633 | 853 | 2 318 | 2 387 |
| Scrap | 11 413 | 10 368 | 14 213 | 20 288 | 15 257 |
| Norway | | | | | |
| Ores & concentrates | 233 797 | 220 879 | 221 754 | 231 563 | 255 158 |
| Poland | | | | | |
| Ores & concentrates | 118 106 | 112 193 | 113 990 | 114 800 | 78 746 |
| Unwrought (a) | 10 113 | 14 789 | 22 182 | 31 603 | 26 670 |
| Scrap | 261 | 251 | 656 | 4 636 | 3 899 |
| Portugal | | | | | |
| Unwrought | 12 701 | 13 649 | 18 113 | 13 450 | 11 862 |
| Unwrought alloys | 6 907 | 10 678 | 10 616 | 14 675 | 11 573 |
| Romania | | | | | |
| Ores & concentrates | 87 597 | 55 758 | 113 683 | 109 019 | 150 282 |
| Unwrought (a) | 11 747 | 15 482 | 16 030 | 19 555 | 14 640 |
| Slovakia | | | | | |
| Unwrought (a) | ... | 31 953 | 33 557 | 42 324 | 43 500 |
| Slovenia | | | | | |
| Unwrought (a) | 20 516 | 18 031 | 19 925 | 21 146 | 21 740 |
| Spain | | | | | |
| Ores & concentrates | 687 733 | 901 359 | 1 096 292 | 917 968 | 1 090 022 |
| Unwrought | 4 529 | 4 939 | 7 448 | 3 862 | 8 203 |
| Unwrought alloys | 9 499 | 10 398 | 12 477 | 16 601 | 17 858 |
| Scrap | 2 850 | 2 506 | 4 103 | 4 062 | 3 927 |
| Sweden | | | | | |
| Unwrought | 27 156 | 25 562 | 22 320 | 29 682 | 29 847 |
| Unwrought alloys | 11 170 | 12 145 | 13 496 | 18 009 | 16 812 |
| Switzerland | | | | | |
| Unwrought | 20 567 | 21 073 | 11 730 | 14 577 | 13 045 |
| Unwrought alloys | 3 735 | 3 796 | 3 798 | 3 194 | 2 601 |
| Turkey | | | | | |
| Unwrought | (a) 84 091 | (a) 110 773 | (a) 126 315 | (a) 148 897 | 139 156 |
| Unwrought alloys | ... | ... | ... | ... | 6 121 |
| United Kingdom | | | | | |
| Ores & concentrates | 215 342 | 229 042 | 16 611 | 260 | 903 |
| Unwrought | 110 157 | 108 357 | 171 219 | 139 477 | 135 840 |
| Unwrought alloys | 6 363 | 5 738 | 13 796 | 15 960 | 16 128 |
| Scrap | 3 219 | 261 | 172 | 228 | 188 |

Note(s) :-

(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs etc.

(a) Including alloys

Zinc ore – EU31 trade in 2005**Zinc – EU31 trade in 2005**

Zirconium minerals

- The mineral zircon (zirconium silicate) is the principal zirconium commodity. Due to its very high melting temperature and chemical stability, it is used as a refractory in furnace and ladle linings, foundry sands and ceramic manufacture. Zirconium metal manufacture is a very small part of total output.
- Zircon is recovered from heavy mineral sands, typically as a co-product with titanium minerals, and the relative rarity of large deposits restricts production to only a few countries. The largest producers in 2005 were Australia (36%) and South Africa (33%).
- Zircon is traded in three forms — foundry, ceramic and refractory. In 2005, greater demand for zircon resulted in increased prices. The average value of ore and concentrates imported to the US increased to \$674/tonne in 2005 compared to \$477/tonne in 2004. Ceramic grade Australian zircon prices increased to between \$620–\$700/tonne at the end of 2005.

Exports of zirconium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|--------|--------|--------|--------|--------|
| Belgium-Luxembourg | | | | | |
| Concentrates | 14 979 | 18 253 | 10 047 | 11 105 | 22 965 |
| Metal | 193 | 233 | 163 | 170 | 222 |
| Estonia | | | | | |
| Metal | ... | — | 0 | 0 | ... |
| France | | | | | |
| Concentrates | 657 | 1 126 | 653 | 1 129 | 1 058 |
| Germany | | | | | |
| Concentrates | 4 161 | 2 539 | 2 111 | 2 450 | 5 211 |
| Metal | 265 | 343 | 300 | 275 | 286 |
| Italy | | | | | |
| Concentrates | 15 906 | 20 510 | 22 050 | 25 633 | 21 760 |
| Metal | 1 604 | 775 | 424 | 441 | 455 |
| Netherlands | | | | | |
| Concentrates | 1 430 | 5 361 | 7 011 | 8 548 | 8 178 |
| Spain | | | | | |
| Concentrates | 7 449 | 7 852 | 13 669 | 10 844 | 9 805 |
| Metal | 5 | 122 | 602 | 989 | 820 |
| United Kingdom | | | | | |
| Concentrates | 1 776 | 5 033 | 418 | 505 | 699 |
| Metal | 380 | 263 | 244 | 183 | 127 |

Note(s):-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

Imports of zirconium

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|--------------------|---------|---------|---------|---------|---------|
| Austria | | | | | |
| Concentrates | 1 127 | 1 526 | 1 206 | 1 486 | 1 200 |
| Belgium-Luxembourg | | | | | |
| Concentrates | 5 657 | 13 267 | 5 178 | 3 991 | 14 504 |
| Metal | 670 | 483 | 533 | 534 | 605 |
| Bulgaria | | | | | |
| Concentrates | 1 490 | 1 413 | 1 375 | 1 149 | 1 589 |
| Czech Republic | | | | | |
| Concentrates | 3 480 | 2 911 | 2 105 | 1 605 | 655 |
| Metal | 486 | 580 | 348 | 32 | 60 |
| France | | | | | |
| Concentrates | 59 386 | 43 841 | 58 457 | 48 004 | 53 701 |
| Metal | 2 323 | 251 | 288 | 276 | 207 |
| Germany | | | | | |
| Concentrates (a) | 82 728 | 76 921 | 85 178 | 80 328 | 79 729 |
| Metal | 409 | 456 | 632 | 516 | 503 |
| Italy | | | | | |
| Concentrates | 137 649 | 136 504 | 130 207 | 149 787 | 147 435 |
| Metal | 936 | 85 | 823 | 122 | 120 |

Zirconium

Imports continued

tonnes

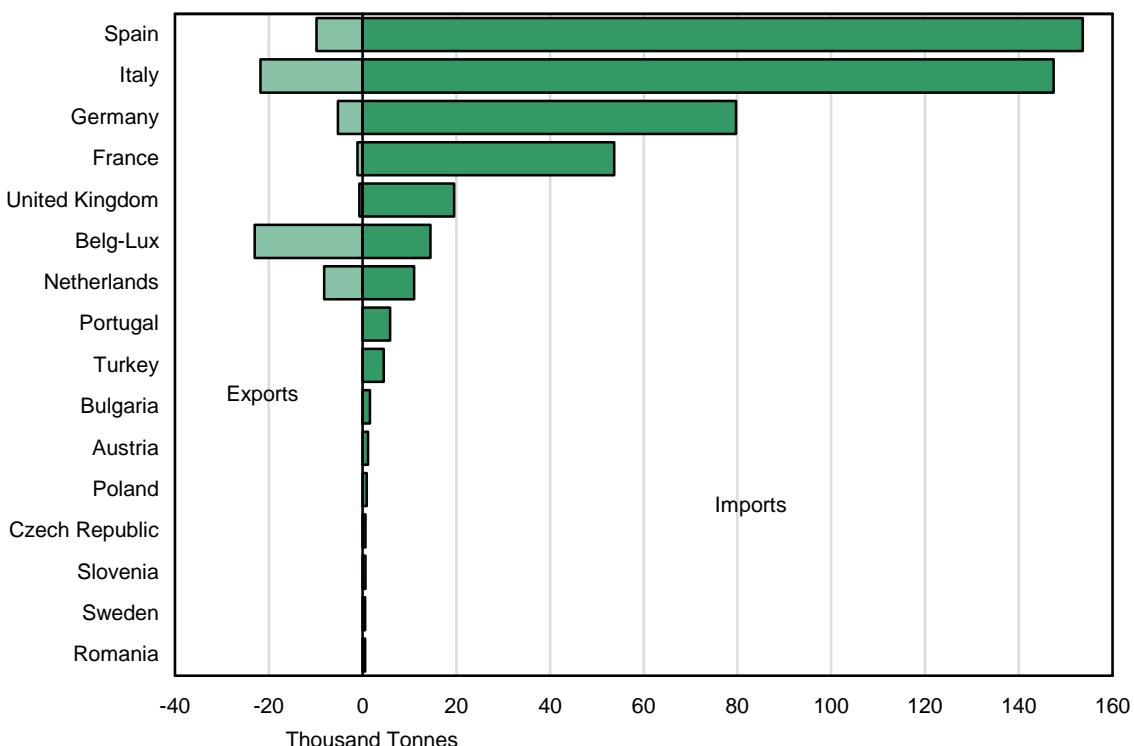
| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------------|---------|---------|---------|---------|---------|
| Netherlands | | | | | |
| Concentrates | 27 300 | 21 401 | 11 607 | 13 613 | 10 975 |
| Metal | 53 | 42 | 52 | 105 | 88 |
| Poland | | | | | |
| Concentrates | 2 002 | 1 207 | 1 056 | 1 085 | 870 |
| Metal | 29 | 13 | 2 | 23 | 6 |
| Portugal | | | | | |
| Concentrates | 3 990 | 2 924 | 2 802 | 2 045 | 5 918 |
| Romania | | | | | |
| Concentrates | 685 | 678 | 827 | 809 | 552 |
| Metal | 48 | 12 | 22 | 30 | 22 |
| Slovenia | | | | | |
| Concentrates | 440 | 440 | 529 | 416 | 625 |
| Spain | | | | | |
| Concentrates | 133 013 | 145 970 | 142 949 | 143 860 | 153 619 |
| Metal | 163 | 41 | 60 | 94 | 56 |
| Sweden | | | | | |
| Concentrates | 435 | 424 | 480 | 564 | 588 |
| Metal | 66 | 138 | 172 | 82 | 91 |
| Switzerland | | | | | |
| Metal | 66 | 115 | 85 | 86 | 117 |
| Turkey | | | | | |
| Concentrates | 2 263 | 3 914 | 3 954 | 3 881 | 4 539 |
| Metal | 5 | 23 | 5 | 9 | 14 |
| United Kingdom | | | | | |
| Concentrates | 46 548 | 30 656 | 39 285 | 32 917 | 19 519 |
| Metal | 693 | 394 | 346 | 444 | 338 |

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-Alloys

(a) Including niobium and tantalum concentrates

Zirconium concentrates – EU31 trade in 2005



Borates

- Borates is a general term for a range of boron-containing minerals of which borax (tincal), ulexite, colemanite and datolite are the most commercially significant. These minerals are processed via boron trioxide to boric acid. The chief use of borate minerals is in glass manufacture (in particular fibreglass) and ceramics.
- Economic concentrations of borates form in unusual geological environments and so production is restricted to a few countries. In 2005, Turkey was the largest world producer (39%).
- Borates are traded in a variety of forms. The price of Turkish lump colemanite (FOB 40–42% B₂O₃) was between \$270–\$290/tonne. Processed chemical (borax) ranged from £300–£900/tonne with the higher prices referring to anhydrous borax.

Production of borates

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|-----------|-----------|-----------|-----------|-----------|
| Turkey | 1 399 000 | 1 328 000 | 1 324 000 | 1 727 000 | 2 087 000 |

Primary magnesium metal

- Magnesium is a light metal chiefly used as an alloying agent with aluminium to reduce weight. The use of magnesium castings is increasing, especially in the automotive industry. Its other chief use is in desulphurising steel.
- Magnesium is produced mainly from dolomite rock, lake and sea brines and magnesite (magnesium carbonate rock). The largest producer in 2005 was China. Until recently Norway and France produced recycled magnesium, however, the EU31 is now entirely import dependent for magnesium metal.
- The market was generally oversupplied with magnesium in 2005 and, with the exception of a slight increase at the beginning of the year, magnesium prices decreased steadily to below \$1600/tonne.

Production of primary magnesium metal

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|--------|-------|------|------|------|
| France | 4 800 | 2 000 | — | — | — |
| Norway | 40 700 | 3 100 | — | — | — |

Nepheline syenite

- Nepheline syenite is an igneous rock composed chiefly of feldspar and nepheline (one of a family of minerals called feldspathoids). The chief uses are similar to those for feldspar, i.e. in the manufacture of glass, in ceramics and as a filler.
- Economic concentrations form in rare geological environments and only three countries produce nepheline syenite. Russia was the largest producer in 2005, followed by Canada and Norway.
- Norwegian nepheline syenite (bulk FOL, UK port, glass grade, 0.5mm) traded at £97/tonne throughout 2005.

Production of nepheline syenite

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|---------|---------|---------|---------|---------|
| Norway | 330 362 | 330 461 | 332 000 | 329 000 | 320 000 |

Perlite

- Perlite is a silicate mineral that results from the alteration of natural glass with the chemical composition of granite. Upon heating the mineral swells and dewater — resulting in a sudden increase in volume accompanied by a decrease in density. It has remarkable thermal insulation properties, porosity, chemical stability, nonflammability, high heat resistance and high sound absorption. It is chiefly used in building materials.
- More than 20 countries produce perlite. Greece is the largest perlite producer in the world, representing approximately 36% of world production in 2005. China and the USA are also significant perlite producers.
- Perlite can have a wide range of properties and shipments are individually assessed according to need. Thus, the price range is large. During 2005 perlite (aggregate, expanded, ex-works UK) traded between £320–£650/tonne.

Production of perlite

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|----------|---------|---------|-----------|-----------|------------|
| Bulgaria | 12 300 | 10 500 | 16 800 | 8 500 | 15 300 |
| Greece | 840 660 | 838 997 | 1 079 036 | 1 053 388 | *1 100 000 |
| Hungary | 89 900 | 72 196 | 95 100 | 65 000 | 69 900 |
| Italy | *60 000 | *60 000 | *60 000 | *60 000 | *60 000 |
| Slovakia | 14 910 | 18 635 | 15 000 | 23 840 | 12 700 |
| Turkey | 154 515 | 151 902 | 136 683 | 133 829 | 156 935 |

Selenium metal

- Selenium is a light, weakly toxic, metalloid. Selenium has a wide range of uses; the largest is in glass-making where it acts as a decolourizer, and it is also used in ceramics, pigments, electronics, animal feed supplement and in base-metal alloys. Its former major use in photocopiers has declined as it has been replaced by other materials.
- Selenium is most commonly produced as a by-product of copper refining. Thus, production tends to occur in the countries that produce significant amounts of refined copper. The largest producer in 2005 was Japan. Within the EU31, Belgium and Sweden are thought to be the largest producers but precise statistics are unavailable.
- The average US price for selenium metal min. 99.5% was \$47.40/lb in 2005. Selenium prices have risen dramatically since 2003, primarily as a result of demand exceeding supply. At the beginning of 2005 selenium was trading around \$37/lb. Prices steadily increased throughout the year to a year-end high of around \$52/lb.

Production of selenium metal

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|------|------|------|------|------|
| Belgium | *200 | *200 | *200 | *200 | *200 |
| Finland | 42 | 37 | 52 | 65 | 66 |
| Germany | *100 | *100 | *100 | *100 | *14 |
| Poland | 65 | 68 | 78 | 83 | 82 |
| Sweden | 88 | 118 | 107 | 131 | ... |

Strontium minerals

- Strontium is a soft metallic element. The most common strontium mineral is celestite (strontium sulphate). This is frequently converted into strontium carbonate before marketing.
- The dominant use of strontium is (in oxide form) in the faceplate glass of cathode ray tubes where it blocks X-ray emissions. Strontium compounds are also used in pigments, pyrotechnics and fluorescent tubes. Strontium metal has only very minor uses.
- Only seven countries reported production of strontium minerals in 2005. China is the world's largest producer with almost two thirds of world production. In 2005 celestite traded at between \$54–\$100/tonne depending on source and grade.

Production of strontium minerals

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|---------|---------|---------|---------|---------|
| Spain | 164 030 | 171 293 | 152 383 | 206 001 | 190 000 |
| Turkey | 63 635 | *70 000 | *70 000 | *60 000 | *60 000 |

Note(s):-

(1) In addition to the countries listed, Germany and Poland are believed to produce strontium minerals

Uranium

- Uranium is a dense metallic element. It is chiefly used as the fuel source for nuclear power stations and in weapons.
- Uranium ore is milled and processed into 'yellowcake' (a uranium oxide), which is the chief form in international trade. Yellowcake is converted to uranium hexafluoride, which is then enriched to enable it to be used as a fuel.
- Canada was the world's largest mine producer during 2005, accounting for 28% of the world total. Australia is also a significant producer, contributing 23% to world production. In the EU31, a small amount of uranium was mined in the Czech Republic. In addition there was minor production from Romania and Germany.
- During 2005, the uranium spot price steadily climbed from around \$20/lb U₃O₈ at the start of the year to a year-end price of \$36.25/lb U₃O₈. The price for long-term contracts reached \$27/lb U₃O₈.

Mine production of uranium

tonnes (metal content)

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---|------|------|------|------|------|
| Czech Republic | 490 | 477 | 458 | 435 | 420 |
| France | 194 | 12 | — | — | — |
| Germany | 27 | 221 | 104 | 77 | 80 |
| Portugal | 4 | 2 | — | — | — |
| Romania | 85 | 90 | 90 | 90 | *90 |
| EU31 Total | 800 | 802 | 652 | 602 | 590 |
| EU31 Total (U ₃ O ₈ equivalent) | 944 | 946 | 770 | 710 | 696 |

Note(s):-

(1) Excluding uranium production from decommissioning operations in France and Germany

Wollastonite

- Wollastonite (calcium metasilicate) is a commercially important mineral because of its bladed (acicular) crystals. It is used as filler in plastics, ceramics, paint and friction products and as an asbestos substitute.
- Production is restricted to a handful of countries, of which China is the largest (55% of world production). Finland contributed 2% to world production.
- Wollastonite is traded on the basis of the aspect ratio of its crystals and by mesh size. Prices were stable throughout 2005 at between \$205–\$345/short ton, depending on grade.

Production of wollastonite

tonnes

| Country | 2001 | 2002 | 2003 | 2004 | 2005 |
|---------|--------|--------|--------|--------|--------|
| Finland | 18 399 | 17 400 | 17 300 | 16 763 | 15 950 |

Note(s):-

(1) In addition to the countries listed, Turkey is believed to produce wollastonite