

European Mineral Statistics



2002–06



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL



**Communities
and Local Government**

BRITISH GEOLOGICAL SURVEY

European Mineral Statistics 2002–06

A product of the World Mineral Statistics database

By: L E Hetherington, T J Brown, N E Idoine, S D Hannis, T Bide, S F Hobbs, J Naden

Technical support: A C MacKenzie



Keyworth, Nottingham British Geological Survey 2008

BRITISH GEOLOGICAL SURVEY

Keyworth, Nottingham NG12 5GG
☎ 0115-936 3100

Murchison House, West Mains Road, Edinburgh EH9 3LA
☎ 0131-667 1000

London Information Office, Natural History Museum (Earth Galleries), Exhibition Road, London SW7 2DE.
☎ 020-7589 4090

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The British Geological Survey is a component body of the Natural Environment Research Council.

*All communications regarding the content of this publication should be addressed to the Head of Science, Minerals, British Geological Survey, Keyworth, Nottingham NG12 5GG
☎ 0115 936 3495 Fax 0115 936 3520
E-mail minerals@bgs.ac.uk*

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Bibliographical reference

BRITISH GEOLOGICAL SURVEY. 2008. *European mineral statistics 2002–06*. (Keyworth, Nottingham: British Geological Survey.)

Cover photograph: Drilling on the extension of the Curraghinalt gold deposit, County Tyrone, Northern Ireland. BGS © NERC.

ISBN 978-0-85272-617-4

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 27 EU members (as of 1 February 2008), the EU associates Norway and Switzerland and the EU candidate countries Croatia, Macedonia and Turkey; this group of 32 countries is for convenience referred to as 'EU32'.

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 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 EU 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 2868 million tonnes of primary aggregate production in the EU32 countries. The European Aggregates Association (UEPG) (www.uepg.eu) estimates that the average annual production of primary aggregates in only 21 European countries is 3606.2 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. Finland, 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 21 million tonnes/year or 22 per cent of total UK sand and gravel production in 2006. 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 approximately 28 per cent of total supply. UEPG shows production of recycled aggregates as 188 million tonnes in 2006 (a five per cent increase on 2006) with the UK and Germany being the largest producers with 58 million tonnes and 48 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. Member States are required to comply with the Directive by May 2008. The Directive applies to the onshore extraction of all minerals, 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, 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 EU32 production of selected industrial minerals as world percentages.

<i>Industrial mineral</i>	<i>% of world</i>	<i>EU32 countries with >2% of world output in 2006</i>
Feldspar	45.3	Turkey (15.9%), Italy, Spain, France, Czech Republic, Poland
Kaolin	23.1	UK (7.0%), Germany, Czech Republic, Turkey
Salt	23.1	Germany (6.8%), France, Netherlands, UK
Magnesite	21.7	Turkey (8.8%), Slovakia, Austria, Spain
Bentonite & fuller's earth	21.5	Greece (5.8%), Spain, Turkey
Gypsum	20.5	Spain (8.8%), France
Talc	17.1	Finland (6.8%), France
Potash	15.7	Germany (12.6%)
Mica	10.4	France (6.5%)
Fluorspar	7.0	Spain (2.7%)

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, are still 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 (3.3 per cent of the world total in 2006), Finland and Turkey for chromium (2.9 per cent and 2.4 per cent respectively) and Ireland for zinc (4.1 per cent), but the majority of European countries depend chiefly on imports from other continents. Since 2005, the percentage of mine production for metals produced in the EU32 has generally decreased slightly. Minor increases have been seen in silver (9.5 per cent in 2005), resulting from a small decrease in rest-of-world production, and gold (0.6% in 2005) due to production restarting in Turkey (actual production, however, is lower than in 2004). The overall European position of mine production of the major non-ferrous metals in 2006 is shown in Table 3.

Table 3 EU32 mine production of selected metals as world percentages.

<i>Metal</i>	<i>% world</i>	<i>EU32 countries with >1% of world output in 2006</i>
Silver	9.6	Poland (6.3%), Sweden, Turkey
Zinc	8.8	Ireland (4.1%), Sweden, Poland
Titanium	7.3	Norway (7.3%)
Lead	6.8	Ireland (1.8%), Sweden, Poland
Copper	5.5	Poland (3.3%)
Chromium	5.2	Finland (2.9%), Turkey
Tungsten	2.6	Austria (1.5%), Portugal
Nickel	2.2	Greece (1.4%)
Aluminium (bauxite)	1.9	Greece (1.1%)
Iron	1.7	Sweden (1.3%)
Mercury	1.6	Finland (1.6%)
Gold	0.8	–
Manganese	0.5	–

EU32 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.

During 2006, metals prices increased largely as a result of the continued strong demand from Asia, and particularly from China. The average price of the major non-ferrous metals, copper, aluminium, lead and zinc, increased by 37 per cent during the year. China consumed 25 per cent of the world total of refined aluminium, 21 per cent of copper, 28 per cent of primary lead, 17 per cent of nickel, 31 per cent of refined tin, and 29 per cent of slab zinc (World Bureau of Metal Statistics). It continues to be the largest consuming country of these metals, often by a significant margin. China also consumed 30.9 per cent of steel, but although the per capita consumption increased eight per cent in a year to 291 kilograms, it is still relatively low compared to the EU(25) at 445 kilograms per capita (International Iron and Steel Institute). Stocks of many minerals and metals, including copper, lead and zinc, were very 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.

Before 1975, European production of both petroleum and natural gas was negligible but Europe produced 10.8 per cent of the world total for natural gas in 2006 and 6.2 per cent of petroleum. These percentages both show reductions on the 2002 figures of 12.6 per cent and 8.8 per cent, respectively.

In 2006, Norway produced 3.3 per cent of total world output of oil and the United Kingdom produced 1.8 per cent. These two countries are the eleventh and seventeenth largest world producers respectively. Production in Norway has decreased by 18.5 per cent between 2002 and 2006, and in the UK by 33.9 per cent.

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 EU32 countries was 1351 million tonnes. In 2006 production from the same territories was 680 million tonnes, of which half was provided by Germany (3.2 per cent of the world total) and Poland (2.5 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.

In 2006, mine production of uranium in the EU32 countries amounted to 635 tonnes U₃O₈ equivalent, or 1.4 per cent of the world total, chiefly attributable to the Czech Republic. The EU32 countries occupy the top five positions for nuclear share in electricity generation in 2006 (International Atomic Energy Agency). These countries are France, Lithuania, Slovakia, Belgium and Sweden, with nuclear share ranging from 78.1 per cent to 48.0 per cent.

In January 2008, the UK government gave formal backing to the building of new nuclear power stations by private operators. However no decision has been made on how much these companies should pay towards the cost of building underground nuclear waste storage facilities. The French company EDF has announced plans to build four nuclear plants in the UK, the first by 2017, and other companies have also expressed interest. In 2006, the UK produced 18.4 per cent of electricity from nuclear generation.

The overall European position with regard to production of energy minerals in 2006 is shown in Table 4.

Table 4 EU32 production of energy minerals as world percentages.

<i>Mineral</i>	<i>% world</i>	<i>EU32 countries with > 1% of world output 2006</i>
Coal	11.0	Germany (3.2%), Poland, Greece, Turkey, Czech Republic
Natural gas	10.8	Netherlands (3.0%), UK, Norway
Petroleum	6.2	Norway (3.3%), UK
Uranium	1.4	Czech Republic (1.0%)

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.

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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 Minerais 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 Osterreichischen 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 EU32 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

Bentonite and fuller's earth - production

- (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 to 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
- 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 electroplating 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	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel (c)	tonnes	28 758 261	27 287 331	29 395 685	29 065 350	27 589 904
Crushed rock (c)	tonnes	22 438 122	26 333 481	27 687 041	25 093 602	26 791 067
Cement clinker	tonnes	...	...	...	90 053	188 588
Cement, finished	tonnes	3 967 000	*4 000 000	4 040 000	4 676 768	5 293 370
Coal	tonnes	1 411 824	1 152 389	235 397	13 931	7 854
Copper, refined	tonnes	64 900	65 100	74 200	72 300	72 600
Gypsum						
Gypsum	tonnes	847 117	889 727	920 809	911 162	936 072
Anhydrite	tonnes	122 085	113 823	117 318	106 032	135 380
Iron ore (b)	tonnes	1 941 759	2 124 787	1 889 419	2 047 950	2 091 995
Pig iron	tonnes	4 607 000	4 676 742	4 846 740	5 446 000	5 548 000
Crude steel	tonnes	6 189 000	6 261 000	6 530 000	7 031 000	7 129 000
Ferro-alloys						
Ferro-molybdenum	tonnes	4 930	4 400	4 700	5 000	5 000
Ferro-nickel	tonnes	2 150	2 000	1 900	2 500	2 500
Ferro-vanadium	tonnes	5 500	5 300	5 800	6 250	6 250
Kaolin	tonnes	21 212	15 034	16 345	55 508	51 900
Lead, refined	tonnes	*23 000	*20 000	*26 000	*24 000	*22 000
Magnesite	tonnes	728 235	766 525	715 459	693 754	769 188
Nickel, smelter/refinery	tonnes	*1 000	*1 000	300	400	1 000
Crude petroleum	tonnes	1 032 204	1 014 716	981 588	933 040	944 637
Natural gas	million m ³	2 015	2 029	2 011	1 654	1 765
Salt						
Rock salt	tonnes	1 491	1 610	1 228	1 497	1 336
Salt in brine	tonnes	641 634	723 286	745 670	771 455	764 103
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	54 925	50 568	55 322	54 377	50 097
Talc	tonnes	138 195	137 596	136 305	166 569	159 447
Tungsten, mine	tonnes (metal content)	1 377	1 381	1 335	1 280	1 153

Note(s):-

(1) Austria is believed to produce arsenic & bentonite

(a) From petroleum refining and/or natural gas

(b) Including Micaceous iron oxide

(c) Sales

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	2 581 242	3 163 141	2 829 930	2 745 393	3 086 027
Aluminium and bauxite						
Unwrought	tonnes	14 271	16 150	13 341	6 616	7 630
Unwrought alloys	tonnes	94 594	87 528	122 693	125 796	119 058
Scrap	tonnes	57 505	52 564	71 362	67 434	80 200
Antimony						
Metal	tonnes	80	16	19	1 089	3
Barytes	tonnes	1 197	479	2 737	1 407	5 830
Bentonite and fuller's earth						
Bentonite	tonnes	10 394	9 246	8 242	10 173	8 112
Bismuth						
Metal	tonnes	0	8	8	8	...
Ores & concentrates	tonnes	896	1 155	392	276	136
Cement						
Cement clinkers	tonnes	47 401	54 375	58 262	32 877	136 381
Portland cement	tonnes	97 600	136 732	185 069	151 330	201 687
Other cement	tonnes	27 365	42 712	40 830	53 951	38 926

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Chromium						
Metal	tonnes	4 506	5 485	7 194	8 893	11 770
Cobalt						
Metal	tonnes	173	85	22	5	10
Copper						
Unwrought	tonnes	74 370	81 897	71 119	83 750	84 104
Unwrought alloys	tonnes	916	907	580	604	2 509
Scrap	tonnes	25 765	25 606	36 476	33 274	39 169
Diamond						
Unsorted	carats	£2 321 000	£319 000	£477 000	£188 000	£211 000
Gem, cut	carats	£1 950 000	£1 660 000	£1 665 000	£2 895 000	£3 157 000
Dust	carats	£653 000	£190 000	£432 000	£406 000	£45 000
Diatomite	tonnes	5 071	4 650	5 347	5 375	4 171
Feldspar	tonnes	12 279	13 436	18 864	18 998	17 977
Gold						
Metal	kilograms	18 000	10 900	11 500	8 500	11 100
Waste & scrap	kilograms	5 600	2 500	2 900	5 500	600
Graphite	tonnes	3 384	4 574	5 094	7 082	7 416
Gypsum						
Crude	tonnes	46 524	21 562	22 732	21 433	30 002
Calcined	tonnes	82 493	97 840	100 444	94 207	99 013
Iodine	kilograms	1 000	100	100	...	600
Iron, steel and ferro-alloys						
Pig iron	tonnes	80	5 833	6 585	6 614	5 695
Ferro-alloys	tonnes	16 390	17 202	5 999	9 476	10 218
Silicon metal	tonnes	470	751	598	628	1 884
Ingots, blooms, billets	tonnes	217 580	256 981	334 124	484 431	303 284
Scrap	tonnes	777 267	842 323	1 099 278	1 024 301	1 140 091
Kaolin	tonnes	3 105	1 870	2 277	3 019	3 649
Lead						
Unwrought	tonnes	7 831	8 988	14 504	10 746	13 129
Scrap	tonnes	145	65	252	1 514	1 027
Magnesite and magnesia						
Magnesite	tonnes	5 489	2 401	642	1 338	1 231
Magnesia	tonnes	44 729	50 263	73 037	59 283	45 311
Manganese						
Metal	tonnes	29 058	18 923	11 575	5 470	306
Mercury	kilograms	900	800	1 700	4 100	214
Mica	tonnes	3 512	3 767	3 917	4 915	4 102
Molybdenum						
Metal	tonnes	2 123	(a) *2 200	(a) *2 300	(a) *4 800	(a) *3 000
Oxides	tonnes	0	5	125	...	...
Nickel						
Mattes, sinters etc.	tonnes	288	47	9	...	...
Unwrought (b)	tonnes	570	206	297	226	197
Scrap	tonnes	377	440	1 520	1 927	2 337
Phosphates	tonnes	906	1 280	802	1	942
Platinum metals						
Platinum & platinum metals	kilograms	£2 827 000	£4 556 000	£8 114 000	£12 253 000	£14 846 000
Waste & scrap	kilograms	...	£362 000	£50 000	£397 000	£281 000
Potash						
Potassic fertilisers	tonnes	134	258	158	4 713	8 584
Rare earths						
Cerium compounds	tonnes	(a) *2 500	1 750	1 564	1 980	1 569
Other rare earth compounds	tonnes	(a) *7 000	6 144	6 415	6 449	5 911
Metals	tonnes	...	417	456	421	333
Salt	tonnes	...	253 791	183 850	199 133	202 465
Silver						
Metal	kilograms	101 000	87 800	77 400	62 600	120 400
Sulphur and pyrites						
Pyrites	tonnes	...	...	2 418	2 641	2 881
Sulphur, sublimed & precipitated	tonnes	14 596	9 265	8 435	9 245	5 318
Talc	tonnes	142 879	174 590	151 022	158 799	165 923
Tantalum and niobium						
Tantalum	tonnes	43	...	—	—	—

Austria

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Tin						
Unwrought (b)	tonnes	115	151	153	116	110
Scrap	tonnes	363	153	278	62	125
Titanium						
Metal	tonnes	300	340	397	317	513
Oxides	tonnes	3 000	2 404	2 640	3 457	3 976
Tungsten						
Metal	tonnes	813	(a) *1 300	(a) *2 400	(a) *2 100	(a) *2 000
Zinc						
Unwrought (a)	tonnes	34 705	36 012	37 304	13 469	19 981
Scrap	tonnes	3 763	2 984	2 000	3 559	4 329

Note(s):-

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

(b) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	2 545 866	2 446 023	2 087 667	2 516 839	2 622 855
Aluminium and bauxite						
Bauxite	tonnes	21 354	31 082	36 791	36 123	25 291
Alumina	tonnes	41 141	43 318	23 636	41 269	45 777
Alumina hydrate	tonnes	6 538	7 779	6 372	10 125	12 821
Unwrought	tonnes	136 767	141 841	106 348	82 597	113 047
Unwrought alloys	tonnes	170 541	184 478	229 607	214 611	235 053
Scrap	tonnes	(a) *129 700	(a) *143 400	128 798	150 412	157 256
Antimony						
Metal	tonnes	270	120	53	74	51
Oxide	tonnes	190	207	316	263	271
Arsenic						
Metallic arsenic	tonnes	16	5	...	2	1
Barytes	tonnes	2 420	2 742	3 910	5 863	12 550
Bentonite and fuller's earth						
Bentonite	tonnes	54 441	47 358	53 871	58 344	60 667
Fuller's earth	tonnes	129	560	615	374	427
Bismuth						
Metal	tonnes	105	128	114	62	114
Bromine	kilograms	254 900	252 200	93 000	222 000	228 600
Cement						
Cement clinkers	tonnes	314 864	444 535	443 956	532 745	487 406
Portland cement	tonnes	804 924	763 455	773 897	860 087	686 652
Other cement	tonnes	18 597	17 434	51 811	43 083	31 100
Chromium						
Ores & concentrates	tonnes	28 384	36 348	26 761	21 398	37 326
Metal	tonnes	1 808	2 337	3 731	4 440	8 879
Coal						
Hard coal (b)	tonnes	3 993 504	3 965 922	3 552 594	4 108 821	3 912 731
Lignite	tonnes	61 439	59 077	38 833	2 139	2 294
Briquettes	tonnes	76 354	84 343	83 035	96 318	101 389
Cobalt						
Metal	tonnes	345	30	585	694	438
Copper						
Unwrought, unrefined	tonnes	—	—	15 203	20 081	26 508
Unwrought, refined	tonnes	24 707	29 479	18 429	21 176	29 298
Unwrought alloys	tonnes	2 555	3 103	2 460	2 260	2 979
Scrap	tonnes	80 512	82 015	87 807	82 787	88 684
Diamond						
Unsorted	carats	£1 647 000	£1 734 000	£1 193 000	£1 254 000	£1 101 000
Gem, cut	carats	£3 789 000	£4 329 000	£4 660 000	£5 743 000	£5 892 000
Industrial	carats	£115 000	£105 000	£631 000	£706 000	£841 000
Dust	carats	20 000 000	15 000 000	24 000 000	23 000 000	28 000 000

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Diatomite	tonnes	24 364	12 946	13 178	12 892	11 693
Feldspar	tonnes	1 608	1 083	418	1 549	2 220
Fluorspar	tonnes	3 448	2 125	3 078	2 561	2 722
Gold						
Metal	kilograms	17 300	26 500	17 300	22 100	9 300
Waste & scrap	kilograms	1 200	200	200	1 800	300
Graphite	tonnes	6 004	4 971	7 229	13 655	10 704
Gypsum						
Crude	tonnes	17 429	23 705	16 985	15 280	11 057
Calcined	tonnes	48 808	59 897	70 261	66 118	61 713
Iodine	kilograms	81 000	85 500	124 100	92 700	173 600
Iron ore	tonnes	...	5 691 360	5 783 359	7 423 015	8 411 888
Iron, steel and ferro-alloys						
Pig iron	tonnes	30 284	34 462	66 196	51 982	40 133
Sponge & powder	tonnes	14 873	12 042	10 917	25 214	20 542
Ferro-chrome	tonnes	24 412	32 874	43 438	41 046	34 196
Ferro-silico-magnesium	tonnes	877	969	627	678	522
Ferro-manganese	tonnes	37 772	34 748	39 026	37 865	29 385
Ferro-silico-manganese	tonnes	4 829	11 795	6 817	26 572	22 456
Ferro-molybdenum	tonnes	1 348	1 066	1 011	617	1 632
Ferro-niobium & ferro-niobium-tantalum	tonnes	781	1 669	934	899	955
Ferro-phosphorus	tonnes	1 023	1 645	1 433	1 749	1 520
Ferro-silicon	tonnes	23 493	36 918	47 223	32 445	25 609
Ferro-titanium & ferro-silico-titanium	tonnes	1 136	1 427	961	1 121	1 081
Ferro-tungsten & ferro-silico-tungsten	tonnes	562	712	589	535	677
Ferro-vanadium	tonnes	571	643	587	256	100
Other ferro-alloys	tonnes	3 083	3 631	3 321	3 981	3 653
Silicon metal	tonnes	10 273	9 822	9 127	11 698	12 937
Ingots, blooms, billets	tonnes	120 409	99 393	156 796	108 004	132 901
Scrap	tonnes	865 061	936 512	1 017 497	1 113 082	1 089 942
Kaolin	tonnes	249 132	228 674	249 353	234 906	222 007
Lead						
Unwrought	tonnes	44 878	37 927	39 533	23 062	29 184
Scrap	tonnes	1 844	2 672	2 192	1 068	890
Lithium						
Carbonate	tonnes	113	118	115	182	199
Magnesite and magnesia						
Magnesite	tonnes	13 115	12 935	4 814	17 019	1 653
Magnesia	tonnes	20 545	9 325	181 050	188 449	213 760
Manganese						
Metal	tonnes	18 223	10 024	6 497	8 707	12 059
Mercury	kilograms	5 700	4 000	3 900	1 600	2 000
Mica	tonnes	599	899	645	512	615
Molybdenum						
Metal	tonnes	356	382	865	599	1 342
Nickel						
Mattes, sinters etc.	tonnes	737	401	369	460	684
Unwrought (c)	tonnes	4 554	5 251	6 772	6 903	7 599
Scrap	tonnes	641	520	632	447	670
Oxides	tonnes	609	430	293	312	195
Crude petroleum	tonnes	8 128 843	7 819 276	7 539 310	7 836 688	7 698 169
Phosphates	tonnes	...	237 605	210 010	67 853	94 630
Platinum metals						
Platinum & platinum metals	kilograms	2 900	9 400	9 400	7 200	8 400
Potash						
Fertiliser salts	tonnes	19 531	20 424	23 040	23 685	23 423
Chloride	tonnes	5 318	159 216	145 757	144 234	133 514
Other potassic fertilisers	tonnes	4 685	17 997	22 629	15 713	20 996
Rare earths						
Cerium compounds	tonnes	2 025	2 810	2 034	3 055	2 009
Other rare earth compounds	tonnes	3 128	3 062	3 973	2 685	2 618
Metals	tonnes	324	457	463	374	403
Salt	tonnes	92 209	206 355	350 903	210 736	429 515
Sillimanite	tonnes	2 499	2 660	1 981	2 194	2 100

Austria

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Silver						
Metal	kilograms	100 900	109 300	127 600	127 900	168 300
Sulphur and pyrites						
Pyrites	tonnes	1 064	2 107	3 126	3 251	3 537
Sulphur	tonnes	44 365	64 198	58 218	60 054	70 350
Sulphur, sublimed & precipitated	tonnes	237	388	6 339	9 589	10 850
Talc	tonnes	46 833	30 831	49 930	50 768	49 900
Tantalum and niobium						
Tantalum	tonnes	3	54	64	0	0
Tin						
Unwrought (c)	tonnes	906	702	765	1 926	2 177
Scrap	tonnes	208	174	170	79	23
Titanium						
Titanium minerals	tonnes	1 044	675	494	349	575
Metal	tonnes	1 062	441	943	1 691	1 873
Oxides	tonnes	19 478	18 528	18 612	25 640	27 485
Tungsten						
Metal	tonnes	235	271	400	825	670
Carbide	tonnes	428	148	136	42	22
Vanadium						
Vanadiferous residues	tonnes	*25 000	*25 000	*27 000	*29 000	*29 000
Ores & concentrates	tonnes	488	459	467	1 565	792
Pentoxide	tonnes	1 042	(a) *400	(a) *1 000	(a) *260	(a) *568
Metal	tonnes	7	2	9	—	—
Zinc						
Unwrought	tonnes	51 331	58 968	47 866	58 838	61 856
Unwrought alloys	tonnes	23 414	24 621	31 444	28 955	41 002
Scrap	tonnes	1 774	1 643	2 035	609	737
Zirconium						
Concentrates	tonnes	1 526	1 206	1 486	1 200	1 285

Note(s):-

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

(b) Including anthracite

(c) Including alloys

Belgium

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel (a) (b)	tonnes	10 374 974	9 245 757	8 787 817	8 330 239	8 636 966
Crushed rock (a) (c)	tonnes	40 137 452	36 772 879	36 980 382	38 826 735	39 937 651
White arsenic	tonnes	*1 000	*1 000	*1 000	*1 000	*1 000
Cadmium	tonnes	117	—	—	—	—
Cement clinker	tonnes	1 301 790	...	...	...	...
Cement, finished	tonnes	7 103 000	6 553 000	6 216 000	6 587 000	6 965 000
Cobalt metal	tonnes	1 135	1 704	(d) 2 947	(d) 3 298	(d) 2 840
Copper, refined	tonnes	422 500	423 000	383 000	382 900	378 600
Pig iron	tonnes	7 988 396	7 812 593	8 224 000	7 254 000	7 515 000
Crude steel	tonnes	11 322 008	11 114 775	11 697 000	10 422 000	11 650 000
Ferro-alloys						
Ferro-molybdenum	tonnes	...	...	...	...	...
Ferro-vanadium	tonnes	1 492	...	...	...	...
Kaolin	tonnes	*300 000	*300 000	*300 000	*300 000	*300 000
Lead, refined	tonnes	88 000	65 000	62 000	97 200	84 000
Selenium metal	tonnes	*200	*200	*200	*200	*200
Sulphur and pyrites						
Recovered (e) (f)	tonnes (sulphur content)	359 000	383 000	371 000	376 000	391 000
Tin, smelter	tonnes	8 900	7 700	8 900	7 700	8 000
Slab zinc	tonnes	238 700	244 400	272 500	222 000	251 000

Note(s):-

(a) Deliveries

(b) Includes construction sand and silica sand. Excludes gravel

(c) Includes gravel

(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	2002	2003	2004	2005	2006
Cement clinker	tonnes	895 000	770 000	847 000	834 000	816 000
Cement, finished	tonnes	729 000	709 000	797 000	767 000	796 000
Crude steel	tonnes	2 736 000	2 675 000	2 684 000	2 194 000	2 802 000

Belgium-Luxembourg

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	15 340 439	13 562 764	13 208 283	14 573 270	15 452 434
Aluminium and bauxite						
Bauxite	tonnes	73 550	98 961	54 734	46 717	53 680
Alumina	tonnes	8 955	7 058	...	10 714	18 151
Unwrought	tonnes	234 880	157 800	266 682	267 811	210 559
Unwrought alloys	tonnes	52 402	40 919	42 010	38 889	29 871
Scrap	tonnes	151 468	133 871	137 374	149 914	186 613
Antimony						
Ores & concentrates	tonnes	67	25	...	77	360
Metal	tonnes	48	181	493	693	1 580
Oxide	tonnes	(a) *11 700	12 063	12 443	11 526	12 661

Belgium-Luxembourg

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Arsenic						
Metallic arsenic	tonnes	62	27	10	101	2 542
Asbestos	tonnes	—	—	3	...	164
Barytes	tonnes	1 781	1 424	3 646	4 016	19 004
Bentonite and fuller's earth						
Bentonite	tonnes	14 819	28 403	22 700	26 049	32 407
Fuller's earth	tonnes	89	57	501	501	303
Bromine	kilograms	21 462 800	17 930 400	21 275 800	19 124 000	20 738 100
Cadmium						
Metal	tonnes	607	1 018	746	639	298
Sulphide	tonnes	17	10	15	29	7
Cement						
Cement clinkers	tonnes	767 780	749 249	842 257	833 257	544 183
Portland cement	tonnes	1 854 749	1 815 882	1 598 742	1 715 979	1 811 884
Other cement	tonnes	687 836	592 657	616 066	612 642	609 236
Chromium						
Ores & concentrates	tonnes	9 510	5 491	2 433	10 777	14 485
Metal	tonnes	262	660	852	782	520
Coal						
Anthracite	tonnes	940 201	999 793	1 399 280	1 463 646	1 521 523
Other coal	tonnes	1 783 567	1 777 869	2 273 223	2 948 838	3 734 518
Briquettes	tonnes	43 484	19 122	...	11 682	7 923
Cobalt						
Ore	tonnes	145	381	1 064	543	197
Metal	tonnes	(b) *3 600	(b) *3 800	(b) *3 900	(b) *3 100	4 329
Oxides	tonnes	(b) *3 800	(b) *6 900	(b) *2 100	(b) *5 400	(a) *5 800
Copper						
Ores & concentrates	tonnes	5	517	1 478	1 887	1 778
Matte & cement	tonnes	15 222	...	493	...	1 026
Unwrought, unrefined	tonnes	3 537	10 521	19 942	4 499	8 833
Unwrought, refined	tonnes	201 367	336 637	169 556	241 363	236 804
Unwrought alloys	tonnes	14 815	21 710	13 556	14 463	13 419
Scrap	tonnes	127 668	152 584	169 397	177 787	163 418
Diamond						
Unsorted	carats	...	...	...	£785 000	£889 000
Gem, rough	carats	...	131 000 000	154 000 000	147 000 000	128 000 000
Gem, cut	carats	8 000 000	6 500 000	6 000 000	5 500 000	4 500 000
Industrial	carats	8 000 000	10 500 000	7 000 000	5 500 000	2 000 000
Dust	carats	39 500 000	38 000 000	42 500 000	40 000 000	35 500 000
Diatomite	tonnes	3 174	1 512	1 856	1 330	1 949
Fluorspar	tonnes	219	22 639	4 208	26 395	110 965
Gold						
Metal	kilograms	2 000	500	1 200	100	300
Waste & scrap	kilograms	...	...	...	458 400	438 000
Graphite	tonnes	5 653	9 097	581	834	460
Gypsum						
Crude	tonnes	59 688	64 538	91 110	46 691	62 303
Calcined	tonnes	3 628	2 556	175 496	2 709	4 707
Iodine	kilograms	2 351 000	4 904 400	3 646 100	3 460 200	3 272 600
Iron ore	tonnes	70 035	43 752	23 450	81 560	43 555
Iron, steel and ferro-alloys						
Pig iron	tonnes	172 175	227 815	225 486	201 577	230 490
Sponge & powder	tonnes	13 263	18 741	29 127	15 850	19 750
Ferro-chrome	tonnes	41 565	39 778	32 998	31 851	38 401
Ferro-silico-chrome	tonnes	3 593	10 381	7 214	9 107	17 169
Ferro-silico-magnesium	tonnes	38	79	39	11	52
Ferro-manganese	tonnes	23 985	16 246	9 621	11 674	11 122
Ferro-silico-manganese	tonnes	29 953	38 032	41 307	29 858	41 422
Ferro-molybdenum	tonnes	...	...	19 219	22 420	22 679
Ferro-silicon	tonnes	30 962	18 856	31 000	21 812	39 501
Other ferro-alloys	tonnes	4 342	9 678	6 445	6 700	6 550
Silicon metal	tonnes	5 873	8 227	6 078	9 095	6 765
Ingots, blooms, billets	tonnes	548 174	395 499	368 589	639 936	859 247
Scrap	tonnes	1 821 636	2 310 658	2 851 040	2 712 683	3 052 438
Kaolin	tonnes	332 718	539 940	664 743	777 451	628 479

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Lead						
Ores & concentrates	tonnes	104 187	84 545	109 580	96 610	113 576
Unwrought	tonnes	84 303	104 827	93 316	110 372	98 077
Scrap	tonnes	6 981	6 307	12 736	9 142	15 071
Lithium						
Oxides	tonnes	548	982	1 837	1 545	1 236
Carbonate	tonnes	3 935	4 000	10 053	4 999	5 107
Magnesite and magnesia						
Magnesite	tonnes	440	7 061	512	575	1 520
Magnesia	tonnes	73 182	134 268	53 755	52 665	75 011
Manganese						
Ores & concentrates	tonnes	16 949	13 476	11 300	10 648	5 138
Metal	tonnes	3 216	3 091	1 377	1 826	7 045
Mercury	kilograms	15 900	17 000	1 300	8 800	42 300
Mica	tonnes	915	1 907	1 635	3 226	3 225
Molybdenum						
Ores & concentrates	tonnes	9 271	11 690	16 219	17 683	24 320
Metal	tonnes	199	314	221	342	194
Oxides	tonnes	1 621	820	571	687	905
Nickel						
Ores & concentrates	tonnes	82	438	...	853	877
Mattes, sinters etc.	tonnes	697	1 139	768	209	559
Unwrought	tonnes	12 351	9 848	16 290	13 376	14 324
Unwrought alloys	tonnes	1 752	1 947	2 843	2 510	1 994
Scrap	tonnes	6 118	1 114	1 694	1 008	3 656
Oxides	tonnes	712	268	772	702	685
Crude petroleum	tonnes	2 319 755	2 263 897	2 967 608	2 616 977	2 833 897
Phosphates	tonnes	54 563	75 856	101 115	108 238	82 232
Platinum metals						
Platinum	kilograms	3 200	2 000	1 000	700	2 600
Platinum metals	kilograms	7 300	2 100	4 400	2 100	3 000
Waste & scrap	kilograms	319 342	239 700	245 596	305 700	934 000
Potash						
Fertiliser salts	tonnes	5 313	1 193	441	127	...
Sulphate (a)	tonnes	*444 600	*490 000	*685 000	*628 000	*423 900
Chloride	tonnes	211 383	142 227	140 950	116 862	41 405
Other potassic fertilisers	tonnes	5 803	4 756	7 993	9 773	4 769
Rare earths						
Rare earth compounds	tonnes	452	743	721	413	302
Ferro-cerium & other pyrophoric alloys	tonnes	7	2	0	...	...
Metals	tonnes	160	158	237	187	444
Salt	tonnes	129 726	117 806	105 680	121 103	94 196
Sillimanite	tonnes	5 783	22 825	49 319	77 463	48 825
Silver						
Ores & concentrates	kilograms	1 128 700	56 900	29 800	7 200	8 000
Metal	kilograms	67 500	47 600	24 100	12 600	45 200
Sulphur and pyrites						
Sulphur	tonnes	44 882	40 984	36 824	47 927	38 494
Sulphur, sublimed & precipitated	tonnes	291	350	338	290	465
Talc	tonnes	86 924	92 350	128 120	168 900	144 081
Tin						
Concentrates	tonnes	...	...	186	286	118
Unwrought	tonnes	8 883	7 538	8 803	6 814	1 633
Unwrought alloys	tonnes	138	171	184	388	7 421
Scrap	tonnes	28	601	607	362	216
Titanium						
Titanium minerals	tonnes	113 342	123 823	139 393	131 597	100 498
Titanium slag	tonnes	...	...	...	4 219	20 830
Metal	tonnes	1 296	1 214	1 031	1 093	1 490
Oxides	tonnes	314 469	348 005	397 481	366 632	401 614
Tungsten						
Metal	tonnes	259	374	404	452	484
Carbide	tonnes	21	35	39	25	62

Belgium-Luxembourg

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Vanadium						
Vanadiferous residues	tonnes	3 414	3 129	...	...	...
Ores & concentrates	tonnes	218	748	1 456	2 600	791
Pentoxide	tonnes	46	22	9	2	13
Zinc						
Ores & concentrates	tonnes	101 157	232 845	384 652	511 730	540 810
Unwrought	tonnes	114 430	130 356	136 768	10 058	13 275
Scrap	tonnes	28 597	19 485	26 546	37 754	57 851
Zirconium						
Concentrates	tonnes	18 253	10 047	11 105	22 965	27 054
Metal	tonnes	233	163	170	222	144

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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	17 771 910	19 492 423	20 219 032	20 831 220	22 303 782
Aluminium and bauxite						
Bauxite	tonnes	106 310	102 691	82 208	87 376	59 874
Alumina	tonnes	9 983	11 350	12 942	10 879	28 030
Alumina hydrate	tonnes	43 902	43 941	33 798	37 831	45 723
Unwrought	tonnes	473 246	382 266	513 835	497 013	451 309
Unwrought alloys	tonnes	196 413	217 309	235 761	265 937	286 345
Scrap	tonnes	157 885	146 723	157 812	158 799	197 942
Antimony						
Ores & concentrates	tonnes	491	6	13	5	1
Metal	tonnes	13 379	11 409	12 225	10 722	11 543
Oxide	tonnes	1 583	1 615	1 708	1 735	2 524
Arsenic						
Metallic arsenic	tonnes	75	90	95	164	105
Asbestos	tonnes	...	1	63	...	1
Barytes	tonnes	5 369	6 045	3 255	3 432	7 953
Bentonite and fuller's earth						
Bentonite	tonnes	27 239	33 129	35 509	45 282	48 871
Fuller's earth	tonnes	6 626	6 428	11 164	8 028	7 036
Bismuth						
Metal	tonnes	4	4	20	27	109
Bromine	kilograms	25 627 900	21 097 900	23 466 200	25 108 000	24 553 300
Cadmium						
Metal	tonnes	5 121	4 914	4 064	4 779	3 948
Oxide	tonnes	—	65	61	26	...
Sulphide	tonnes	4	18	—	29	13
Cement						
Cement clinkers	tonnes	64 453	256 355	553 911	442 986	545 575
Portland cement	tonnes	795 844	846 044	956 062	898 871	897 315
Other cement	tonnes	187 371	292 756	314 515	275 177	277 825
Chromium						
Ores & concentrates	tonnes	4 179	4 644	6 094	18 464	22 053
Metal	tonnes	664	765	821	1 245	1 264
Coal						
Anthracite	tonnes	3 412 532	3 439 165	4 134 160	3 293 344	2 608 840
Other coal	tonnes	8 263 921	8 342 288	9 728 235	8 997 265	10 534 424
Lignite	tonnes	244 300	219 162	232 809	229 192	279 982
Briquettes	tonnes	53 715	14 717	3 924	14 120	29 848
Cobalt						
Ore	tonnes	—	67	455	263	107
Metal (a)	tonnes	*4 700	*8 400	*7 000	*4 800	*4 300
Oxides	tonnes	644	800	1 103	(a) *1 300	(a) *500

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Copper						
Matte & cement	tonnes	—	9	4 799	370	1 111
Unwrought, unrefined	tonnes	209 172	291 190	291 111	237 645	267 505
Unwrought, refined	tonnes	36 907	58 266	17 318	9 515	21 818
Unwrought alloys	tonnes	1 659	1 641	1 510	1 906	1 083
Scrap	tonnes	261 567	225 822	256 504	257 738	300 260
Diamond						
Unsorted	carats	£45 615 000	£36 269 000	£41 932 000	£37 971 000	£38 530 000
Gem, rough	carats	...	126 000 000	121 500 000	134 500 000	67 500 000
Gem, cut	carats	9 500 000	6 500 000	7 500 000	6 500 000	6 000 000
Industrial	carats	26 500 000	19 500 000	15 000 000	14 500 000	12 500 000
Dust	carats	72 000 000	21 000 000	26 500 000	30 500 000	28 500 000
Diatomite	tonnes	8 357	7 507	9 052	8 192	7 450
Feldspar	tonnes	24 632	30 225	30 969	25 876	21 483
Fluorspar	tonnes	11 565	33 622	10 571	70 149	123 392
Gold						
Metal	kilograms	3 200	9 100	12 400	14 400	9 600
Waste & scrap	kilograms	(a) *1 775 000	(a) *889 000	(a) *117 000	(a) *37 000	147 100
Graphite	tonnes	10 638	12 414	3 301	3 040	1 836
Gypsum						
Crude	tonnes	719 403	524 938	713 502	768 702	811 923
Calcined	tonnes	322 930	290 348	366 504	460 067	449 433
Iodine	kilograms	2 357 000	4 817 700	3 419 800	3 332 800	3 513 200
Iron ore	tonnes	12 204 732	11 577 845	10 655 707	9 384 885	11 387 165
Iron, steel and ferro-alloys						
Pig iron	tonnes	270 015	291 507	396 174	330 709	560 116
Sponge & powder	tonnes	13 234	26 084	107 639	48 915	102 543
Ferro-chrome	tonnes	176 217	198 691	215 638	220 896	342 280
Ferro-silico-chrome	tonnes	3 426	12 392	7 435	9 587	19 190
Ferro-silico-magnesium	tonnes	425	327	993	1 656	2 040
Ferro-manganese	tonnes	67 683	54 564	49 305	60 564	54 402
Ferro-silico-manganese	tonnes	56 769	54 676	56 622	60 454	69 526
Ferro-molybdenum	tonnes	3 573	5 141	4 317	5 199	5 929
Ferro-nickel	tonnes	42 337	32 673	51 796	61 454	73 384
Ferro-niobium	tonnes	720	719	712	849	936
Ferro-phosphorus	tonnes	769	1 124	1 237	1 700	1 607
Ferro-silicon	tonnes	73 251	63 474	93 591	79 901	109 389
Ferro-titanium & ferro-silico-titanium	tonnes	1 761	2 069	1 677	2 141	3 016
Ferro-tungsten & ferro-silico-tungsten	tonnes	...	...	...	309	322
Ferro-vanadium	tonnes	182	412	568	650	338
Other ferro-alloys	tonnes	8 591	5 186	9 673	10 854	10 534
Silicon metal	tonnes	14 985	15 579	15 136	18 563	20 117
Ingots, blooms, billets	tonnes	2 383 948	3 894 592	2 814 705	3 452 850	2 876 977
Scrap	tonnes	3 146 151	3 896 924	4 413 160	3 761 788	4 297 928
Kaolin	tonnes	607 908	890 277	1 023 999	962 536	868 255
Lead						
Ores & concentrates	tonnes	115 471	80 203	117 597	134 300	120 136
Unwrought	tonnes	27 490	20 874	27 042	18 807	15 081
Scrap	tonnes	25 527	28 028	26 904	26 699	41 070
Lithium						
Oxides	tonnes	1 159	1 197	2 250	2 014	1 201
Carbonate	tonnes	5 879	5 086	6 108	6 205	5 357
Magnesite and magnesia						
Magnesite	tonnes	2 547	7 167	505	767	3 872
Magnesia	tonnes	73 514	151 590	65 125	84 730	152 330
Manganese						
Ores & concentrates	tonnes	72 216	79 645	73 953	66 840	65 462
Metal	tonnes	5 413	4 480	2 466	4 150	10 114
Mercury	kilograms	22 600	29 200	54 700	18 600	44 800
Mica						
Unmanufactured	tonnes	276	89	1 588	913	470
Ground	tonnes	1 359	3 223	4 311	2 996	2 646
Molybdenum						
Ores & concentrates	tonnes	24 746	36 903	45 922	54 452	47 122
Metal	tonnes	277	179	277	383	490
Oxides	tonnes	730	2 702	1 519	2 072	2 618

Belgium-Luxembourg

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Nickel						
Mattes, sinters etc.	tonnes	216	61	162	214	203
Unwrought	tonnes	32 016	41 648	42 387	41 364	51 130
Unwrought alloys	tonnes	488	636	979	822	483
Scrap	tonnes	2 611	828	1 644	1 221	271
Oxides	tonnes	326	497	366	324	349
Crude petroleum	tonnes	37 490 772	42 731 484	34 210 727	34 417 017	33 843 960
Phosphates	tonnes	1 668 206	1 664 247	1 545 478	1 688 029	1 299 125
Platinum metals						
Platinum	kilograms	3 044	2 481	19 590	...	...
Platinum metals	kilograms	7 545	11 324	235	1 978	...
Potash						
Fertiliser salts	tonnes	23 295	24 355	26 328	17 331	2 628
Sulphate	tonnes	203 971	213 779	212 176	260 839	2 839
Chloride	tonnes	1 175 981	1 163 936	1 276 732	1 211 640	576 972
Other potassic fertilisers	tonnes	19 044	21 700	22 357	17 698	7 693
Rare earths						
Cerium compounds	tonnes	639	843	615	411	280
Other rare earth compounds	tonnes	126	143	287	139	138
Metals	tonnes	225	195	226	252	443
Salt	tonnes	3 411 148	1 895 987	1 236 192	1 315 385	2 275 674
Sillimanite	tonnes	10 499	29 333	53 146	81 538	50 726
Silver						
Ores & concentrates	kilograms	200	84 400	1 100	...	536 600
Metal	kilograms	652 200	735 100	476 800	175 200	258 700
Sulphur and pyrites						
Sulphur, crude	tonnes	155 665	152 598	152 830	167 624	...
Sulphur, refined	tonnes	218 830	241 917	305 518	322 649	(b) 574 515
Sulphur, sublimed & precipitated	tonnes	25	103	28	127	156
Talc	tonnes	115 112	124 455	135 046	224 624	186 227
Tantalum and niobium						
Tantalum	tonnes	7	41	20	1	0
Tin						
Concentrates	tonnes	32	74	329	377	154
Unwrought	tonnes	1 223	490	1 686	1 210	1 312
Unwrought alloys	tonnes	2 464	2 737	3 421	1 284	1 368
Scrap	tonnes	4 756	4 816	5 726	1 382	4 866
Titanium						
Ilmenite	tonnes	9 889	11 632	...	—	720
Other titanium minerals	tonnes	132 921	164 624	165 288	165 711	156 771
Titanium slag	tonnes	41 594	...	...	...	...
Metal	tonnes	1 516	1 712	1 868	2 289	1 857
Oxides	tonnes	271 627	272 441	339 444	291 670	314 131
Tungsten						
Metal	tonnes	279	404	372	340	454
Carbide	tonnes	70	51	42	42	64
Vanadium						
Ores & concentrates	tonnes	483	1 379	1 116	894	197
Pentoxide	tonnes	2 981	57	3	267	12
Metal	tonnes	501	238	32	60	67
Zinc						
Ores & concentrates	tonnes	864 008	1 189 103	1 410 560	1 182 083	1 109 923
Unwrought	tonnes	236 971	244 081	261 216	46 505	73 894
Unwrought alloys	tonnes	4 767	2 649	13 872	35 653	24 414
Scrap	tonnes	60 893	42 424	42 534	44 890	44 221
Zirconium						
Concentrates	tonnes	13 267	5 178	3 991	14 504	18 763
Metal	tonnes	483	533	534	605	556

Note(s):-

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

(b) Including crude

Bulgaria

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	5 897 773	7 072 776	9 719 350	12 835 622	11 698 613
Crushed rock	tonnes	3 911 441	3 986 616	5 688 492	8 121 646	8 230 249
Barytes	tonnes	123 200	91 200	75 400	79 500	91 000
Bentonite and fuller's earth						
Bentonite	tonnes	211 500	145 500	224 900	181 200	134 500
Bismuth, mine	tonnes (metal content)	*40	*40	*40	*40	*40
Cadmium	tonnes	345	307	356	319	*300
Cement clinker	tonnes	...	...	...	402 684	400 315
Cement, finished	tonnes	2 137 000	*2 400 000	*2 900 000	3 559 420	4 003 664
Coal						
Anthracite & bituminous	tonnes	122 000	53 000	170 000	...	...
Brown coal & lignite	tonnes	26 433 500	27 641 000	26 455 000	(c) 26 400 000	(c) 27 500 000
Copper, mine	tonnes (metal content)	84 400	91 600	79 600	82 700	99 000
Copper, smelter	tonnes	167 000	199 300	215 800	225 000	217 000
Copper, refined	tonnes	40 700	45 900	55 300	60 100	65 500
Feldspar	tonnes	*34 000	*35 000	*35 000	*35 000	*35 000
Gold, mine	kilograms (metal content)	2 612	2 270	2 431	3 868	3 818
Gypsum	tonnes	156 400	165 500	175 900	187 700	215 800
Iron ore	tonnes	373 000	466 100	82 700	—	—
Pig iron	tonnes	1 072 000	1 386 000	1 200 000	1 100 000	1 100 000
Crude steel	tonnes	1 860 000	1 950 000	2 106 000	1 940 000	2 100 000
Ferro-alloys						
Ferro-silicon	tonnes	*8 000	*8 000	*8 000	*8 000	*8 000
Kaolin	tonnes	*150 000	*120 000	*190 000	*200 000	*240 000
Lead, mine	tonnes (metal content)	19 800	19 950	*19 400	*18 500	*16 000
Lead, refined	tonnes	67 500	74 000	69 000	93 500	84 300
Manganese ore	tonnes	4	4 200	27 800	38 500	20 500
Perlite	tonnes	10 500	16 800	8 500	15 300	4 500
Crude petroleum	tonnes	33 000	27 900	33 100	30 000	27 500
Natural gas	million m ³	11	11	333	573	519
Salt	tonnes	1 800 000	1 882 000	1 900 000	1 900 000	2 000 000
Silver, mine	kilograms (metal content)	60 000	*60 000	*60 000	*60 000	*50 000
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	245 000	260 000	301 000	312 000	340 000
Recovered (b)	tonnes (sulphur content)	30 000	30 000	25 000	30 000	35 000
Zinc, mine	tonnes (metal content)	12 900	13 000	*12 700	*12 000	*10 400
Slab zinc	tonnes	83 000	86 800	101 500	92 500	85 900

Note(s):-

(1) Bulgaria is believed to produce chromite, fluor spar, 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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	227 464	214 135	384 420	160 032	282 018
Aluminium and bauxite						
Unwrought alloys	tonnes	2 152	1 971	4 616	5 254	11 692
Scrap	tonnes	22 994	21 838	22 036	21 902	29 245
Barytes	tonnes	123 224	91 215	75 393	76 644	74 523
Bentonite and fuller's earth						
Bentonite	tonnes	121 868	102 263	95 435	76 614	89 531
Cadmium						
Metal	tonnes	337	344	378	316	369

Bulgaria

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Cement						
Cement clinkers	tonnes	435 202	602 632	392 414	338 505	293 031
Portland cement	tonnes	485 972	568 083	460 281	455 824	334 013
Other cement	tonnes	2 729	22 625	50	27	40
Copper						
Ores & concentrates	tonnes	83 032	72 861	78 563	124 717	193 389
Matte & cement	tonnes	4 233	4 356	6 718	5 750	4 818
Unwrought	tonnes	173 720	218 482	219 415	219 009	210 520
Scrap	tonnes	9 459	9 507	9 480	8 244	13 163
Feldspar	tonnes	8	612	1 131	452	6 159
Gypsum						
Crude & calcined	tonnes	2 406	1 868	2 231	2 347	2 439
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	5 088	8 045	5 646	3 072	7 163
Ingots, blooms, billets	tonnes	111 719	355 397	277 332	97 757	163 020
Scrap	tonnes	459 322	572 559	769 559	784 778	722 261
Kaolin	tonnes	113 538	124 396	114 399	124 899	149 559
Lead						
Ores & concentrates	tonnes	400	13 029	10 370	6 165	10 900
Unwrought	tonnes	58 789	61 799	54 686	69 825	65 400
Manganese						
Ores & concentrates	tonnes	...	6 402	42 122	53 559	25 595
Molybdenum						
Metal	tonnes	37	49	546	105	87
Platinum metals						
Waste & scrap (a)	kilograms	*35 800	*17 500	*24 000	*31 400	*73 200
Salt	tonnes	4 938	2 625	8 586	10 090	16 020
Sulphur and pyrites						
Sulphur	tonnes	25 306	21 478	20 103	25 019	31 737
Zinc						
Unwrought (b)	tonnes	70 967	74 801	89 287	82 902	227 543
Scrap	tonnes	1 039	653	1 194	1 576	1 854

Note(s):-

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

(b) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	17 160	24 578	20 303	17 200	19 384
Aluminium and bauxite						
Alumina	tonnes	941	1 443	1 663	1 401	2 039
Unwrought (a)	tonnes	22 890	28 194	35 515	40 748	66 644
Scrap	tonnes	...	...	435	1 449	2 179
Antimony						
Metal	tonnes	48	52	47	...	34
Asbestos	tonnes	160	50	196	...	...
Bentonite and fuller's earth	tonnes	653	511	1 089	1 600	1 992
Cement						
Cement clinkers	tonnes	3 088	3 815	23 048	180 254	586 194
Portland cement	tonnes	7 491	33 810	51 493	23 787	9 127
Other cement	tonnes	420	1 027	920	1 128	1 665
Chromium						
Ores & concentrates	tonnes	710	480	812	997	1 440
Coal						
Anthracite	tonnes	1 173 622	1 396 246	1 464 605	2 016 911	2 170 631
Other coal	tonnes	2 315 367	3 038 589	2 784 512	2 270 525	2 221 526

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Copper						
Ores & concentrates	tonnes	281 687	454 875	561 613	632 255	581 055
Matte & cement	tonnes	...	8 542	383	562	5 003
Unwrought	tonnes	8 392	3 880	8 599	18 613	19 735
Scrap	tonnes	1 919	2 722	2 935	5 094	7 784
Diatomite	tonnes	8 478	1 139	1 292	1 312	1 156
Feldspar	tonnes	21 852	23 367	30 805	34 723	40 416
Fluorspar	tonnes	1 296	2 143	1 882	1 210	2 321
Graphite	tonnes	210	492	420	319	433
Gypsum						
Crude	tonnes	47 984	38 119	49 426	18 684	10 088
Calcined	tonnes	17 476	22 615	35 558	49 163	56 869
Iodine	kilograms	4 636	11 250	6 755	5 080	3 990
Iron ore						
Iron ore	tonnes	1 302 809	1 850 563	1 570 605	1 050 925	1 305 110
Burnt pyrites	tonnes	1 307	128 640	357 898	437 710	450 004
Iron, steel and ferro-alloys						
Pig iron	tonnes	16 304	45 935	14 228	19 624	15 278
Powder	tonnes	328	313	437	328	533
Ferro-manganese	tonnes	2 047	5 152	5 116	5 540	6 133
Other ferro-alloys	tonnes	4 440	9 232	7 441	6 539	9 172
Silicon metal	tonnes	137	232	663	585	9 734
Ingots, blooms, billets	tonnes	7 951	116 005	280 895	275 001	417 485
Scrap	tonnes	43 260	74 445	90 491	108 450	188 698
Kaolin	tonnes	28 486	36 360	75 425	76 231	91 831
Lead						
Ores & concentrates	tonnes	52 368	64 751	74 163	83 398	100 736
Unwrought	tonnes	2 218	1 759	5 558	10 723	11 305
Scrap	tonnes	2 800	816	441	1 227	1 346
Magnesite and magnesia	tonnes	6 544	5 815	6 354	8 500	6 551
Manganese						
Ores & concentrates	tonnes	1 125	234 401	46 768	13 631	17 367
Molybdenum						
Metal	tonnes	33	58	53	108	73
Phosphates	tonnes	490 935	550 013	515 889	543 637	449 874
Potash						
Potassic fertilisers	tonnes	11 724	3 453	4 725	7 794	9 102
Salt	tonnes	125 613	116 840	138 631	165 727	181 801
Sulphur and pyrites						
Sulphur	tonnes	325	407	903	1 076	767
Talc	tonnes	404	465	487	599	626
Tin						
Unwrought	tonnes	80	65	39	49	278
Titanium						
Titanium minerals	tonnes	653	2 979	407	1 287	300
Oxides	tonnes	2 448	3 156	3 332	3 959	4 750
Zinc						
Ores & concentrates	tonnes	120 409	149 957	167 098	149 735	198 504
Unwrought (a)	tonnes	3 049	4 146	4 285	1 450	9 994
Zirconium						
Concentrates	tonnes	1 413	1 375	1 149	1 589	1 421

Note(s):-

(a) Including alloys

Croatia

Production

Commodity	Units	2002	2003	2004	2005	2006
Bentonite and fuller's earth						
Bentonite	tonnes	12 102	13 568	15 674	17 391	16 410
Gypsum	tonnes	145 000	166 340	193 263	196 133	170 351
Crude steel	tonnes	33 851	43 380	85 947	73 640	80 516
Crude petroleum	tonnes	1 108 434	1 052 121	1 037 787	980 486	950 859
Natural gas	million m ³	2 122	2 190	2 198	2 384	2 714
Salt	tonnes	30 483	32 533	32 723	36 970	29 589
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	7 069	7 471	9 000	9 000	7 000

Note(s):-

(a) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	2 432 146	1 740 334	2 534 177	1 908 732	2 390 517
Aluminium and bauxite						
Bauxite	tonnes	3 869	1 478	566	276	48
Scrap	tonnes	10 187	10 914	12 024	15 927	19 832
Cement						
Cement clinkers	tonnes	39 981	...	44 297	196 594	244 043
Portland cement	tonnes	1 153 639	1 104 731	1 039 442	1 254 309	1 282 560
Other cement	tonnes	80 227	76 973	95 310	92 074	89 957
Copper						
Scrap	tonnes	7 001	7 497	9 613	10 814	12 105
Gypsum						
Crude & calcined	tonnes	28 318	4 775	5 796	4 890	6 349
Iron, steel and ferro-alloys						
Scrap	tonnes	197 532	235 322	279 852	318 840	398 070
Kaolin	tonnes	5 319	4 362	351	15	35
Lead						
Scrap	tonnes	749	750	853	794	1 057
Salt	tonnes	4 242	5 530	9 226	5 688	9 759
Sulphur and pyrites						
Sulphur	tonnes	7 150	7 505	8 505	8 028	6 606

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	89 920	487 181	2 404 092	4 603 357	3 867 558
Aluminium and bauxite						
Bauxite	tonnes	42 464	71 335	48 302	112 007	80 441
Unwrought	tonnes	32 229	21 289	47 437	56 509	53 021
Unwrought alloys	tonnes	8 326	7 329	9 672	14 915	18 893
Asbestos	tonnes	3 274	1 958	3 251	2 429	...
Barytes	tonnes	1 803	1 053	1 878	715	893
Bentonite and fuller's earth						
Bentonite	tonnes	14 571	1 238	2 181	1 897	2 053
Cement						
Cement clinkers	tonnes	7 330	144 509	61 672	...	...
Portland cement	tonnes	85 593	176 027	214 400	379 711	447 202
Other cement	tonnes	1 841	1 782	...	1 569	5 547

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Chromium						
Ores & concentrates	tonnes	287	341	459	537	615
Metal	tonnes	160	200	279	54	51
Coal						
Hard coal	tonnes	281 298	1 034 849	1 218 407	957 899	1 082 446
Lignite	tonnes	34 807	69 679	79 921	77 959	78 226
Briquettes	tonnes	65 401	22 828	2 981	4 734	6 084
Diatomite	tonnes	928	809	703	495	633
Feldspar	tonnes	10 609	11 894	13 713	17 011	15 986
Fluorspar	tonnes	164	152	204	143	124
Gold						
Metal	kilograms	1 316	5 034	1 193	1 083	992
Gypsum						
Crude	tonnes	28 326	35 732	14 974	41 665	25 095
Calcined	tonnes	29 147	33 419	37 499	33 316	37 052
Iron ore						
Burnt pyrites	tonnes	...	14 098	10 708	12 305	11 349
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 124	14 821	15 175	15 270	16 994
Ferro-alloys	tonnes	2 265	2 421	2 980	2 893	3 031
Silicon metal	tonnes	391	350	510	261	61
Ingots, blooms, billets	tonnes	13 527	18 523	3 562	12 421	27 291
Scrap	tonnes	3 937	5 361	7 156	18 407	17 563
Kaolin	tonnes	6 046	6 303	6 472	7 941	16 423
Lead						
Unwrought	tonnes	1 635	988	1 460	1 492	1 415
Magnesite and magnesia	tonnes	949	1 006	1 479	1 647	1 564
Manganese						
Metal	tonnes	57	50	93	93	89
Crude petroleum	tonnes	4 009 452	3 776 305	4 197 554	3 855 070	3 778 918
Phosphates	tonnes	177 728	181 534	245 224	272 005	317 571
Platinum metals						
Platinum & platinum metals	kilograms	604	...	839	12 320	107
Potash						
Chloride	tonnes	124 881	146 692	168 015	131 567	149 424
Other potassic fertilisers	tonnes	...	...	...	2 060	3 594
Salt	tonnes	139 989	164 046	165 277	226 931	193 911
Silver						
Metal	kilograms	4 000	*3 500	3 340	3 837	5 043
Sulphur and pyrites						
Sulphur	tonnes	39 190	46 017	63 606	70 897	86 431
Sulphur, sublimed & precipitated	tonnes	1 738	3 611	4 817	1 923	3 492
Talc	tonnes	1 587	1 531	1 726	1 378	1 753
Tin						
Unwrought (a)	tonnes	89	95	67	62	73
Titanium						
Oxides	tonnes	2 081	2 327	2 401	2 561	2 827
Zinc						
Unwrought (a)	tonnes	3 006	5 324	3 516	3 329	11 506

Note(s):-

(a) Including alloys

Cyprus

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Crushed rock	tonnes	10 500 000	10 700 000	11 600 000	12 064 112	12 198 513
Cement clinker	tonnes	212 459	56 034	68 865	37 891	97 846
Cement, finished	tonnes	1 438 160	1 636 879	1 688 917	1 804 645	1 786 488
Bentonite and fuller's earth						
Bentonite	tonnes	128 400	144 859	155 717	172 366	150 620
Copper, mine	tonnes (metal content)	3 700	2 500	—	—	900
Copper, refined	tonnes	3 695	2 552	1 344	—	880
Gypsum	tonnes	295 000	300 000	255 000	215 500	270 000

Exports

Commodity	Units	2002	2003	2004	2005	2006
Aluminium and bauxite						
Unwrought	tonnes	1 028	381	316	62	...
Scrap	tonnes	2 813	2 966	3 699	4 578	4 880
Bentonite and fuller's earth						
Bentonite	tonnes	81 388	71 460	81 596	85 724	159 472
Cement						
Cement clinkers	tonnes	245 656	200 461	31 215	37 891	91 635
Portland cement	tonnes	201 542	196 173	146 669	219 460	155 271
Copper						
Unwrought	tonnes	3 697	2 610	1 322	...	879
Scrap	tonnes	2 808	1 266	2 221	2 548	2 684
Gypsum						
Crude & calcined	tonnes	169 213	184 389	215 297	73 741	152 621
Iron, steel and ferro-alloys						
Scrap	tonnes	38 154	41 926	46 316	55 240	65 998
Lead						
Scrap	tonnes	1 874	2 073	1 711	1 212	129
Salt	tonnes	1 729	508	559	635	521

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 870	3 201	(a) *8 400	5 921	11 605
Aluminium and bauxite						
Unwrought alloys	tonnes	7 629	7 697	10 858	9 898	12 481
Bentonite and fuller's earth						
Bentonite	tonnes	24 264	20 519	18 052	3 057	9 063
Cement						
Cement clinkers	tonnes	17 144	74 627	28 622	43 375	17 819
Portland cement	tonnes	2 926	2 496	2 092	2 339	1 241
Coal						
Hard coal	tonnes	71 734	23	108	3	23 473
Briquettes	tonnes	1 077	1 173	1 028	935	869
Fluorspar	tonnes	7 607	8 901	5	...	498
Gold						
Metal	kilograms	938	4 561	313	359	340
Gypsum						
Crude & calcined	tonnes	523	468	51 240	3 501	9 849
Iodine	kilograms	29 894	8 685	226	67	125
Kaolin	tonnes	380	487	299	154	184

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Lead						
Unwrought	tonnes	2 367	918	317	172	245
Crude petroleum	tonnes	1 143 649	838 280	417 475	...	...
Platinum metals						
Platinum & platinum metals	kilograms	40	35	78	97	73
Salt	tonnes	10 530	14 053	8 650	13 795	13 647
Silver						
Metal	kilograms	8 614	8 461	5 135	5 675	2 866
Sulphur and pyrites						
Sulphur	tonnes	939	1 370	1 226	1 356	893
Talc	tonnes	202	255	242	386	307
Titanium						
Oxides	tonnes	1 032	1 172	1 172	1 286	1 227

Note(s):-

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

Czech Republic

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	12 248 595	15 267 650	15 703 358	15 672 765	16 931 536
Crushed rock	tonnes	23 643 644	27 934 515	28 846 776	30 221 600	34 815 503
Cement clinker	tonnes	2 102 275	...	...	...	...
Cement, finished	tonnes	3 249 155	3 502 103	3 828 677	3 978 056	4 238 818
Bentonite and fuller's earth						
Bentonite	tonnes	174 000	199 000	201 000	186 000	220 000
Coal						
Bituminous	tonnes	14 097 000	13 382 000	14 648 000	12 778 000	13 017 000
Lignite	tonnes	501 000	470 000	450 000	467 000	459 000
Brown coal	tonnes	48 834 000	49 920 000	47 840 000	48 658 000	48 915 000
Diatomite	tonnes	5 600	4 800	3 800	4 100	4 827
Feldspar	tonnes	401 000	421 000	488 000	472 000	487 000
Graphite	tonnes	16 000	9 000	5 000	3 000	5 000
Gypsum	tonnes	108 000	104 000	71 000	25 000	16 000
Pig iron	tonnes	4 839 880	5 207 000	5 385 000	4 627 000	5 192 000
Crude steel	tonnes	6 511 970	6 783 000	7 033 000	6 189 000	6 862 000
Ferro-alloys						
Ferro-vanadium	tonnes	*3 000	*3 000	*3 500	*2 700	*2 800
Kaolin (a)	tonnes	577 000	591 000	596 000	649 000	673 000
Lead, refined	tonnes	*29 000	*26 000	*25 000	26 000	25 000
Crude petroleum	tonnes	253 000	310 000	299 000	306 000	259 000
Natural gas	million m ³	91	131	175	356	148
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	40 000	45 000	60 000	65 000	65 000
Uranium, mine	tonnes (metal content)	477	458	435	420	383

Note(s):-

(a) Beneficiated

(b) From petroleum refining and/or natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	417 503	464 898	344 850	468 540	772 913
Aluminium and bauxite						
Unwrought (a)	tonnes	34 611	43 045	48 698	48 885	45 876
Scrap	tonnes	33 636	33 410	43 223	39 297	53 986
Antimony						
Oxide	tonnes	74	59	116	145	108
Barytes	tonnes	986	895	616	557	275
Bentonite and fuller's earth						
Bentonite	tonnes	32 002	17 439	62 012	85 093	86 296
Cement						
Cement clinkers	tonnes	77 171	44 410	91 626	29 169	32 521
Portland cement	tonnes	350 341	506 588	576 531	526 784	394 105
Other cement	tonnes	38 341	11 476	3 216	34 046	67 930
Chromium						
Metal	tonnes	88	338	364	109	2 104
Coal						
Hard coal (b)	tonnes	5 680 003	5 668 451	5 706 798	5 260 739	6 690 917
Lignite	tonnes	1 770 888	1 082 961	1 072 275	1 324 025	1 300 406
Briquettes	tonnes	188 383	191 650	160 823	148 966	213 621
Copper						
Unwrought	tonnes	1 712	978	7 834	4 251	12 651
Scrap	tonnes	38 121	36 874	53 086	53 707	57 152
Diamond						
Gem, cut	carats	£122 852	£330 365	£160 545	£330 503	£450 885
Diatomite	tonnes	5 288	5 083	4 734	4 247	4 566

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Feldspar	tonnes	122 206	133 868	143 941	160 469	154 672
Fluorspar	tonnes	8 131	23 471	10 073	8 677	9 954
Gold						
Metal	kilograms	5 468	5 113	12 247	1 100	4 100
Waste & scrap	kilograms	2 453	1 349	31	600	700
Graphite	tonnes	3 487	4 058	3 924	3 489	3 518
Gypsum						
Crude	tonnes	87 247	92 133	90 750	33 307	46 837
Calcined	tonnes	3 967	4 718	5 563	4 272	6 249
Iodine	kilograms	267	330	537	1 000	800
Iron, steel and ferro-alloys						
Pig iron	tonnes	28 844	50 125	55 687	15 526	17 599
Ferro-vanadium	tonnes	2 949	3 012	3 417	2 613	2 763
Other ferro-alloys	tonnes	4 732	6 707	13 114	19 591	21 357
Silicon metal	tonnes	859	778	4 488	512	1 040
Ingots, blooms, billets	tonnes	287 557	249 522	267 912	251 513	324 619
Scrap	tonnes	1 057 822	1 178 514	1 930 343	1 351 676	1 456 061
Kaolin	tonnes	443 674	441 545	483 636	268 850	261 019
Lead						
Unwrought	tonnes	5 724	7 112	7 230	8 665	10 359
Scrap	tonnes	3 346	2 926	3 059	4 948	6 648
Magnesite and magnesia	tonnes	59	1 924	3 790	6 273	4 099
Mercury	kilograms	16 542	9 970	22 172	8 200	1 700
Nickel						
Unwrought (a)	tonnes	211	186	967	57	690
Scrap	tonnes	219	417	525	843	1 036
Oxides	tonnes	159	358	296	658	602
Crude petroleum	tonnes	129 275	155 258	64 315	57 522	41 794
Platinum metals						
Platinum & platinum metals	kilograms	79 408	(c) *22 000	(c) *4 600	(c) *3 300	(c) *310
Waste & scrap	kilograms	2 818	5 316	4 158	4 500	4 700
Potash						
Potassic fertilisers	tonnes	541	808	2 416	3 463	685
Salt	tonnes	7 768	10 490	12 986	13 833	30 648
Silver						
Metal	kilograms	140 057	171 398	291 519	28 900	98 354
Sulphur and pyrites						
Sulphur	tonnes	7 410	10 087	9 787	9 294	11 718
Sulphur, sublimed & precipitated	tonnes	118	134	1 581	503	113
Tantalum and niobium						
Tantalum	tonnes	40	55	84	68	53
Tin						
Unwrought (a)	tonnes	20	66	191	381	74
Scrap	tonnes	15	25	130	65	249
Titanium						
Titanium minerals	tonnes	106	177	873	340	492
Metal	tonnes	82	239	191	358	424
Oxides	tonnes	34 258	33 354	37 673	40 707	43 010
Tungsten						
Metal	tonnes	251	108	133	185	142
Zinc						
Unwrought (a)	tonnes	1 253	1 670	5 659	7 865	10 669
Scrap	tonnes	2 325	2 247	2 976	2 498	3 086

Note(s):-

(a) Including alloys

(b) Including anthracite

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

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	237 868	206 018	509 217	574 008	690 730
Aluminium and bauxite						
Bauxite	tonnes	15 391	13 871	20 922	24 315	24 829
Alumina	tonnes	22 117	23 142	26 898	28 458	24 078
Alumina hydrate	tonnes	11 981	12 767	17 215	10 898	9 782
Unwrought	tonnes	64 108	66 747	75 289	69 977	74 392
Unwrought alloys	tonnes	78 849	82 823	90 688	96 702	104 238
Scrap	tonnes	23 986	24 336	28 542	34 226	48 937
Antimony						
Metal	tonnes	76	45	14	72	82
Oxide	tonnes	626	365	557	588	503
Arsenic						
Metallic arsenic	tonnes	24	20	8	9	11
Asbestos	tonnes	785	1 464	2 891	0	...
Barytes	tonnes	10 754	8 448	8 782	8 552	7 195
Bentonite and fuller's earth						
Bentonite	tonnes	12 623	11 795	19 852	14 776	18 452
Fuller's earth	tonnes	547	702	564	1 290	1 039
Bismuth						
Metal	tonnes	42	56	64	50	77
Bromine	kilograms	47 836	26 817	8 121	1 174	5 066
Cadmium						
Sulphide	tonnes	11	20	19	21	14
Cement						
Cement clinkers	tonnes	6 792	76 152	167 711	95 108	117 477
Portland cement	tonnes	748 672	1 044 234	1 105 823	1 027 011	1 001 321
Other cement	tonnes	83 286	28 197	24 799	38 434	38 439
Chromium						
Ores & concentrates	tonnes	11 655	10 674	11 365	12 440	11 380
Metal	tonnes	14	66	60	149	123
Coal						
Anthracite	tonnes	19 893	15 177	52 247	43 713	61 255
Other coal	tonnes	1 199 062	1 265 727	1 642 568	1 192 214	1 896 977
Cobalt						
Metal	tonnes	35	54	81	75	84
Oxides	tonnes	32	25	33	18	24
Copper						
Unwrought	tonnes	12 110	6 326	5 644	4 551	8 321
Scrap	tonnes	1 656	2 080	5 601	6 114	8 104
Diamond						
Unsorted	carats	£128 000	£187 000	£3 000	£300	£284 000
Gem, rough	carats	£158 000	...	...	£18 000	£3 000
Gem, cut	carats	£382 000	£802 000	£626 000	£1 046 000	£1 095 000
Industrial	carats	£568 000	£360 000	£163 000	£391 000	£445 000
Dust	carats	£886 000	£858 000	£776 000	£956 000	£867 000
Diatomite	tonnes	1 647	1 562	1 969	2 263	2 288
Feldspar	tonnes	7 975	7 388	8 785	13 315	16 032
Fluorspar	tonnes	18 182	16 628	28 408	24 009	24 637
Gold						
Metal	kilograms	1 288	1 596	1 957	769	1 570
Waste & scrap	kilograms	175	338	1 911	13 000	15 000
Graphite	tonnes	1 476	2 765	3 663	4 787	3 485
Gypsum						
Crude	tonnes	14 790	20 266	29 328	19 253	38 983
Calcined	tonnes	23 899	32 810	43 894	37 637	43 282
Iodine	kilograms	18 819	29 637	31 428	28 400	31 600
Iron ore	tonnes	6 811 707	8 221 566	7 636 968	6 576 885	7 984 718

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	90 568	72 151	88 014	88 549	150 032
Sponge & powder	tonnes	5 739	21 478	5 661	6 130	10 136
Ferro-chrome	tonnes	43 181	13 193	16 248	16 772	20 492
Ferro-manganese	tonnes	21 055	24 154	27 051	30 921	32 355
Ferro-silico-manganese	tonnes	26 130	55 989	59 361	53 258	57 857
Ferro-molybdenum	tonnes	1 054	1 346	1 710	1 744	1 889
Ferro-silicon	tonnes	20 570	26 721	34 812	34 114	36 361
Ferro-vanadium	tonnes	250	225	395	564	429
Other ferro-alloys	tonnes	7 851	8 745	9 817	10 959	10 316
Silicon metal	tonnes	2 713	4 095	8 401	2 589	4 986
Ingots, blooms, billets	tonnes	263 839	268 231	352 672	484 450	409 753
Scrap	tonnes	372 348	506 094	593 330	392 135	560 676
Kaolin	tonnes	12 791	15 466	14 034	16 895	22 962
Lead						
Unwrought	tonnes	56 941	55 699	73 472	69 135	67 850
Scrap	tonnes	184	908	1 348	4 147	4 411
Lithium						
Carbonate	tonnes	45	45	76	71	118
Magnesite and magnesia						
Magnesite	tonnes	3 516	5 528	5 973	6 860	5 320
Magnesia	tonnes	32 090	34 377	42 226	43 277	51 674
Manganese						
Ores & concentrates	tonnes	11 507	11 966	11 663	13 820	14 335
Metal	tonnes	376	386	593	619	674
Mercury	kilograms	1 875	2 531	7 300	1 100	4 000
Mica	tonnes	926	764	879	819	1 629
Molybdenum						
Ores & concentrates	tonnes	32	...	...	189	139
Metal	tonnes	29	42	66	89	175
Nickel						
Unwrought (a)	tonnes	1 825	2 158	2 574	2 520	3 531
Oxides	tonnes	236	465	712	785	844
Crude petroleum	tonnes	5 548 002	7 380 375	6 530 733	7 674 771	7 752 356
Phosphates	tonnes	27 955	24 299	24 282	22 633	28 141
Platinum metals						
Platinum & platinum metals	kilograms	1 147	5 249	...	1 289	...
Potash						
Potassic fertilisers	tonnes	83 492	78 801	111 694	101 506	43 238
Rare earths						
Rare earth compounds	tonnes	212	177	92	198	227
Salt	tonnes	622 455	681 134	909 966	891 667	1 151 331
Sillimanite	tonnes	2 673	3 480	3 779	3 733	6 765
Silver						
Metal	kilograms	173 805	238 756	422 971	102 100	1 700
Sulphur and pyrites						
Sulphur	tonnes	51 922	52 784	34 787	16 983	40 147
Sulphur, sublimed & precipitated	tonnes	39 772	49 164	70 159	89 595	70 555
Talc	tonnes	9 299	10 278	9 426	9 986	10 855
Tantalum and niobium						
Tantalum	tonnes	128	168	261	141	164
Tin						
Unwrought (a)	tonnes	531	635	550	634	665
Titanium						
Titanium minerals	tonnes	60 976	74 709	53 570	80 407	149 925
Metal	tonnes	372	620	800	1 143	1 155
Oxides	tonnes	4 307	5 462	6 773	8 008	8 734
Tungsten						
Metal	tonnes	65	73	116	173	197
Vanadium						
Pentoxide	tonnes	4 162	4 898	5 429	3 831	4 858
Zinc						
Unwrought	tonnes	(a) 26 929	(a) 28 748	(a) 34 205	28 263	33 732
Unwrought alloys	tonnes	...	...	...	8 039	11 113

Czech Republic

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Zirconium						
Concentrates	tonnes	2 911	2 105	1 605	655	1 498
Metal	tonnes	580	348	32	60	86

Note(s):-

(a) Including alloys

Denmark

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	53 300 000	50 800 000	57 300 000	69 500 000	72 060 000
Crushed rock	tonnes	390 000	380 000	372 000	378 000	372 000
Cement clinker	tonnes	152 636	61 909	52 758	42 691	5 499
Cement, finished	tonnes	2 544 868	2 580 427	2 892 831	2 880 554	2 937 132
Bentonite and fuller's earth						
Bentonite	tonnes	14 539	16 303	18 352	18 515	19 211
Diatomite						
Moler (a)	tonnes	211 000	221 000	188 000	209 000	196 000
Crude steel	tonnes	392 000	—	—	—	—
Crude petroleum	tonnes	18 494 000	18 341 000	19 446 000	18 822 000	17 068 000
Natural gas	million m ³	7 947	7 552	8 946	9 908	9 873
Salt	tonnes	*590 000	*600 000	*600 000	*600 000	*600 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	4 386	4 751	4 660	4 223	4 142

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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	880 032	736 820	795 330	787 389	973 497
Aluminium and bauxite						
Alumina	tonnes	4 520	4 556	7 146	3 579	3 470
Unwrought alloys	tonnes	23 363	17 538	14 019	23 509	31 768
Scrap	tonnes	45 342	36 738	55 407	70 828	62 734
Bentonite and fuller's earth						
Bentonite	tonnes	14 601	16 821	17 279	17 066	19 214
Cement						
Cement clinkers	tonnes	97 886	65 962	85 967	54 542	11 981
Portland cement	tonnes	1 259 988	1 164 923	1 127 638	1 235 477	1 290 816
Other cement	tonnes	12 697	11 947	13 535	13 118	14 153
Chromium						
Metal	tonnes	496	521	661	703	855
Coal						
Hard coal	tonnes	97 862	6 665	7 380	86 739	49 964
Copper						
Scrap	tonnes	37 058	39 487	38 573	27 227	31 076
Diatomite (a)	tonnes	*74 400	*65 500	*75 800	*69 300	*71 500
Gold						
Metal	kilograms	4 979	894	...	...	...
Waste & scrap	kilograms	807	343	1	120	3 531
Gypsum						
Crude	tonnes	110 317	83 754	81 318	111 720	165 656
Calcined	tonnes	155 843	65 842	13 837	25 474	356 443
Iodine	kilograms	—	199	6 921	3 058	6 301
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	...	325	20 935	23 295	14 611
Ingots, blooms, billets	tonnes	21 432	8 119	16 223	1 203	2 199
Scrap	tonnes	1 058 048	1 310 175	1 564 469	1 402 982	1 414 060
Kaolin	tonnes	688	583	461	637	443
Lead						
Unwrought	tonnes	3 048	3 011	1 930	1 312	1 071
Scrap	tonnes	1 338	1 885	1 805	3 067	2 954

Denmark

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Magnesite and magnesia	tonnes	...	...	165	232	307
Mercury	kilograms	3 642	10 554	27 458	1 932	824
Nickel						
Scrap	tonnes	190	593	777	676	585
Crude petroleum	tonnes	13 073 624	13 015 898	14 324 704	13 567 566	11 456 257
Platinum metals						
Platinum & platinum metals	kilograms	115	208	...	1 435	...
Potash						
Chloride	tonnes	23	8 728	3 162	1 052	64 272
Salt	tonnes	340 177	376 794	350 587	355 887	115 980
Silver						
Metal	kilograms	13 532	...	...	...	24 519
Sulphur and pyrites						
Sulphur	tonnes	1 182	1 598	2 608	332	176
Tin						
Scrap	tonnes	90	110	178	68	124
Titanium						
Metal	tonnes	120	185	166	184	146
Oxides	tonnes	1 000	578	1 304	1 136	1 134
Tungsten						
Metal	tonnes	37	13	26	5	86
Vanadium						
Vanadium-titanium pig iron	tonnes	193	...	...	...	...
Zinc						
Scrap	tonnes	9 263	5 543	2 336	3 538	3 628

Note(s):-

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

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	2 299 752	2 632 665	2 949 549	2 804 325	3 151 321
Aluminium and bauxite						
Bauxite	tonnes	6 140	11 297	13 801	9 148	9 025
Alumina	tonnes	20 228	17 896	23 666	21 979	28 709
Unwrought (a)	tonnes	61 538	65 386	75 233	70 617	79 573
Scrap	tonnes	52 460	41 373	39 949	63 678	64 803
Barytes	tonnes	53 153	39 341	36 133	28 788	58 303
Bentonite and fuller's earth						
Bentonite	tonnes	43 666	46 516	37 253	47 386	49 695
Fuller's earth	tonnes	41	40	107	137	921
Cement						
Cement clinkers	tonnes	4 033	23 222	22 506	31 634	46 600
Portland cement	tonnes	274 440	185 757	187 982	230 842	274 151
Other cement	tonnes	29 067	30 501	33 913	36 753	54 194
Chromium						
Ores & concentrates	tonnes	1 496	920	614	53	775
Metal	tonnes	63	106	90	53	27
Coal						
Anthracite	tonnes	120 888	92 434	77 502	52 143	85 883
Other coal	tonnes	6 087 316	9 126 099	7 487 269	5 881 938	9 234 248
Briquettes	tonnes	42 868	15 451	9 851	15 865	3 473
Copper						
Unwrought	tonnes	2 560	2 324	2 065	1 702	4 081
Scrap	tonnes	12 564	18 332	16 446	13 827	14 646
Diamond						
Unsorted	carats	...	...	£294 482	£597 000	£686 000
Gem, cut	carats	£4 006 000	£10 290 000	£9 319 000	£6 506 000	£7 252 000
Industrial	carats	£202 339	£151 161	£106 030	£80 942	£183 695
Dust	carats	£253 278	£310 482	£220 701	£348 708	£370 517

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Diatomite	tonnes	7 175	6 744	5 001	6 561	4 974
Feldspar	tonnes	4 698	3 904	3 878	3 868	2 590
Fluorspar	tonnes	6 971	12 406	16 005	15 124	12 635
Gold						
Metal	kilograms	796	...	...	2 075	1 563
Graphite	tonnes	355	567	478	288	268
Gypsum						
Crude	tonnes	223 666	282 006	283 604	317 736	330 476
Calcined	tonnes	34 509	36 882	38 650	45 691	52 788
Iodine	kilograms	19 000	21 037	9 080	13 249	16 398
Iron ore						
Burnt pyrites	tonnes	60 659	52 806	81 071	85 975	68 306
Iron, steel and ferro-alloys						
Pig iron	tonnes	59 866	5 678	14 844	12 720	18 128
Sponge & powder	tonnes	14 155	6 471	103 479	29 188	80 148
Ferro-manganese	tonnes	1 674	16	38	161	117
Ferro-silico-manganese	tonnes	2 071	...	...	818	—
Ferro-silicon	tonnes	337	2 495	3 564	2 548	4 069
Other ferro-alloys	tonnes	784	459	712	366	2 976
Silicon metal	tonnes	2 179	1 521	1 061	659	1 540
Ingots, blooms, billets	tonnes	75 117	588 317	598 552	551 407	588 053
Scrap	tonnes	325 841	237 035	250 551	313 558	238 142
Kaolin	tonnes	34 441	20 987	13 056	14 117	19 572
Lead						
Unwrought	tonnes	2 073	816	2 072	2 135	2 322
Scrap	tonnes	2 489	2 237	2 366	2 288	2 209
Lithium						
Carbonate	tonnes	90	98	93	81	164
Magnesite and magnesia						
Magnesite	tonnes	1 085	2 499	1 984	2 002	444
Magnesia	tonnes	3 731	2 297	2 575	4 560	4 478
Manganese						
Metal	tonnes	115	152	164	157	161
Mercury	kilograms	796	260	403	2 901	129
Mica	tonnes	408	305	369	413	1 596
Nickel						
Unwrought (a)	tonnes	114	96	112	97	92
Scrap	tonnes	—	432	447	317	403
Crude petroleum	tonnes	3 193 530	3 517 270	3 725 978	2 666 384	2 576 191
Phosphates	tonnes	57 813	80 114	30 425	1 311	274
Platinum metals						
Platinum & platinum metals	kilograms	530	...	1 324	2 076	...
Potash						
Sulphate	tonnes	7 028	14 654	18 006	2 683	4 778
Chloride	tonnes	146 234	166 236	119 153	38 706	106 772
Other potassic fertilisers	tonnes	13 373	11 254	13 099	29 605	13 150
Salt	tonnes	317 692	376 122	440 020	436 794	520 735
Sillimanite	tonnes	2 726	3 414	2 274	2 909	3 023
Silver						
Metal	kilograms	51 291	49 704	18 909	18 173	22 687
Sulphur and pyrites						
Sulphur	tonnes	8 616	8 210	7 883	7 066	2 335
Talc	tonnes	16 577	14 407	14 085	14 103	13 299
Titanium						
Metal	tonnes	737	745	778	770	788
Oxides	tonnes	23 967	21 022	22 269	23 156	24 678
Tungsten						
Metal	tonnes	15	5	103	307	523
Zinc						
Unwrought	tonnes	11 031	10 761	10 813	9 855	11 494
Unwrought alloys	tonnes	3 030	1 647	1 548	1 457	1 320

Note(s):-

(a) Including alloys

Estonia

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	1 650 400	1 973 740	2 341 620	3 459 760	4 210 280
Crushed rock	tonnes	4 571 100	4 082 700	5 426 600	6 828 600	8 322 300
Cement clinker	tonnes	590 500	559 500	622 900	635 500	*700 000
Cement, finished	tonnes	465 900	506 200	614 600	726 000	848 900
Lead, refined	tonnes	—	—	3 000	*7 000	*7 000
Crude petroleum (a)	tonnes	*1 438 000	*1 463 000	*1 314 000	*1 692 000	*1 635 000

Note(s):-

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

(a) From oil shale

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	376 987	469 343	487 863	522 792	563 697
Aluminium and bauxite						
Unwrought (a)	tonnes	6 095	11 986	5 479	2 414	3 013
Scrap	tonnes	9 108	9 712	8 062	10 686	8 263
Cement						
Cement clinkers	tonnes	163 887	157 353	113 105	97 442	87 638
Portland cement	tonnes	176 923	172 223	209 168	225 729	228 971
Coal						
Hard coal (b)	tonnes	37 954	5 875	...	...	276
Cobalt						
Metal	tonnes	—	143	12	...	3
Copper						
Scrap	tonnes	7 285	6 857	6 479	6 660	11 801
Gold						
Waste & scrap	kilograms	9 895	8 812	...	3	...
Iron, steel and ferro-alloys						
Pig iron	tonnes	(c) *500	(c) *3 400	...	...	...
Ferro-alloys	tonnes	10 271	23 420	1 238	665	672
Scrap	tonnes	326 407	376 554	358 185	440 622	592 372
Lead						
Unwrought	tonnes	...	412	3 846	7 774	6 054
Scrap	tonnes	437	520	1 414	153	184
Manganese						
Metal	tonnes	923	1 320	...	...	142
Mercury	kilograms	2 476	2 500	...	3 400	—
Molybdenum						
Metal	tonnes	1	47	1	1	...
Nickel						
Unwrought (a)	tonnes	—	999	...	42	29
Scrap	tonnes	195	108	296	34	713
Crude petroleum (c)	tonnes	*648 000	*283 000	*321 000	*339 000	...
Platinum metals						
Waste & scrap	kilograms	41 383	3 706	3 981	...	...
Rare earths						
Rare earth compounds	tonnes	4 156	2 129	1 064	2 319	6 819
Metals	tonnes	...	30	14	3	1
Silver						
Metal	kilograms	364	...	13	93	26
Tantalum and niobium						
Tantalum	tonnes	...	25	39	65	51
Tin						
Scrap	tonnes	18	8	7	125	17

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Titanium						
Metal	tonnes	316	336	188	31	49
Tungsten						
Ores & concentrates	tonnes	2	127	...	...	...
Metal	tonnes	4	196	1	3	1
Zinc						
Scrap	tonnes	1 408	1 612	1 146	539	1 121

Note(s):-

(a) Including alloys

(b) Including anthracite

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

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	669 205	464 516	456 144	739 618	932 688
Aluminium and bauxite						
Unwrought (a)	tonnes	6 086	10 428	5 859	1 686	7 021
Scrap	tonnes	751	1 052	431	453	1 338
Asbestos	tonnes	61	...	...	...	...
Bentonite and fuller's earth						
Bentonite	tonnes	...	1 628	1 356	2 014	2 223
Fuller's earth	tonnes	...	221	260	132	145
Cement						
Cement clinkers	tonnes	...	...	...	21 219	75 683
Portland cement	tonnes	31 847	36 438	16 827	3 311	1 102
Coal						
Hard coal (b)	tonnes	59 183	60 731	44 399	53 647	95 079
Cobalt						
Metal	tonnes	0	138	17	0	3
Gold						
Metal	kilograms	58	2 570	74	234	1 200
Gypsum						
Crude & calcined	tonnes	20 355	23 314	80 834	20 957	40 876
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	9 905	16 840	2 132	2 125	1 815
Silicon metal	tonnes	946	1 827	574	125	105
Scrap	tonnes	17 142	35 654	85 689	111 930	64 110
Kaolin	tonnes	...	907	964	1 058	1 090
Manganese						
Metal	tonnes	155	1 201	401	552	909
Molybdenum						
Metal	tonnes	25	43	4	82	146
Nickel						
Mattes, sinters etc.	tonnes	1 075	1 696	46	73	...
Unwrought (a)	tonnes	315	1 328	163	60	23
Scrap	tonnes	211	100	331	108	562
Platinum metals						
Waste & scrap	kilograms	8 790	7 250	...	...	...
Potash						
Potassic fertilisers	tonnes	*18 000	19 986	23 469	15 248	11 208
Rare earths						
Rare earth compounds	tonnes	609	1 734	3 208	4 317	6 819
Salt	tonnes	78 085	78 883	78 849	58 269	78 483
Silver						
Metal	kilograms	9 575	8 892	10 512	132 992	10 100
Talc	tonnes	...	246	316	300	295
Titanium						
Metal	tonnes	302	234	113	216	12
Oxides	tonnes	1 090	1 082	235	1 344	1 726

Estonia

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Tungsten						
Ores & concentrates	tonnes	12	121	...	...	...
Zinc						
Unwrought (a)	tonnes	...	10 578	17 468	9 105	7 253
Scrap	tonnes	5 245	4 473	191	18	86

Note(s):-

(a) Including alloys

(b) Including anthracite

Finland

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	51 000 000	55 000 000	55 000 000	53 000 000	54 000 000
Crushed rock	tonnes	39 000 000	40 000 000	43 000 000	45 000 000	46 000 000
Cadmium	tonnes	400	—	—	—	—
Cement, finished (a)	tonnes	1 198 423	1 186 000	1 295 000	1 347 000	1 684 507
Chromium ores and concentrates	tonnes	566 090	549 000	580 000	572 000	549 000
Cobalt metal	tonnes	8 240	7 989	7 893	8 171	8 582
Copper, mine	tonnes (metal content)	14 400	14 900	15 500	15 000	13 000
Copper, smelter	tonnes	160 896	160 596	151 647	157 900	164 300
Copper, refined	tonnes	126 016	135 713	132 384	132 126	137 961
Feldspar	tonnes	39 552	59 362	44 495	42 783	43 187
Gold, mine	kilograms (metal content)	1 300	*1 200	*1 300	*1 300	*1 300
Pig iron	tonnes	2 828 275	3 092 051	3 036 566	3 056 165	3 157 894
Crude steel	tonnes	4 002 914	4 766 203	4 832 427	4 738 446	5 053 714
Ferro-alloys						
Ferro-chrome	tonnes	248 000	250 000	264 492	234 881	243 350
Mercury	kilograms	50 600	25 000	23 500	34 200	22 820
Mica	tonnes	7 170	9 337	9 250	9 500	8 097
Nickel, mine	tonnes (metal content)	3 500	3 400	3 400	3 400	2 800
Nickel, smelter/refinery	tonnes	55 348	50 989	49 580	39 159	47 469
Phosphate rock	tonnes	799 814	799 339	838 000	823 000	857 922
Selenium metal	tonnes	37	52	65	66	70
Silver, mine	kilograms (metal content)	*12 000	*12 000	*13 000	*13 000	*13 000
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	235 000	276 200	283 700	184 400	199 700
Recovered (b)	tonnes (sulphur content)	328 441	328 779	325 523	304 751	325 793
Recovered (c)	tonnes (sulphur content)	55 000	61 000	65 000	70 000	70 000
Talc	tonnes	477 229	501 658	528 943	508 169	547 146
Vanadium, mine	tonnes (metal content)	...	...	...	...	...
Wollastonite	tonnes	17 400	17 300	16 763	15 950	16 200
Zinc, mine	tonnes (metal content)	34 100	38 800	37 200	40 500	35 700
Slab zinc	tonnes	235 300	265 900	284 525	281 904	282 238

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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	879 966	446 404	422 709	580 815	735 655
Aluminium and bauxite						
Unwrought alloys	tonnes	23 529	18 557	17 254	14 107	11 411
Scrap	tonnes	15 189	16 720	22 946	21 053	25 921
Bentonite and fuller's earth						
Bentonite	tonnes	10 286	1 132	188	155	232
Cadmium						
Metal	tonnes	34	0	...	—	1
Cement						
Portland cement	tonnes	633	837	11 449	3 367	647
Chromium						
Ores & concentrates	tonnes	281	612	708	841	1 570
Cobalt						
Metal (a)	tonnes	*3 900	*4 100	*5 200	*5 800	*5 700
Oxides (a)	tonnes	*3 700	*3 400	*2 100	*1 700	*2 200

Finland

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Copper						
Unwrought, unrefined	tonnes	43 523	33 180	25 618	29 685	34 962
Unwrought, refined	tonnes	37 256	34 333	27 650	40 170	55 239
Unwrought alloys	tonnes	1 002	724	903	746	1 533
Scrap	tonnes	16 462	19 693	23 543	30 577	31 182
Feldspar	tonnes	30 444	33 632	42 612	37 386	41 437
Gold						
Waste & scrap	kilograms	762	929	368	778	886
Gypsum						
Crude & calcined	tonnes	5 026	981	440	451	267
Iron ore						
Burnt pyrites	tonnes	...	...	52	59 433	67 503
Iron, steel and ferro-alloys						
Pig iron	tonnes	231	86	0	8 040	3 045
Ferro-chrome	tonnes	80 026	33 499	35 780	39 341	37 663
Ingots, blooms, billets	tonnes	186 989	501 945	624 170	436 083	284 313
Scrap	tonnes	359 153	374 778	315 977	286 494	220 124
Kaolin	tonnes	10 698	10 032	8 111	7 378	8 373
Lead						
Scrap	tonnes	338	159	884	3 589	2 421
Mercury	kilograms	54 859	25 530	23 462	32 090	24 859
Mica	tonnes	5 514	8 099	7 511	5 745	6 603
Nickel						
Ores & concentrates	tonnes	11 939	1 459	—	—	—
Unwrought	tonnes	39 367	37 416	36 458	30 628	37 747
Scrap	tonnes	118	...	26	28	47
Oxides (a)	tonnes	*2 000	*600	*500	*300	*600
Phosphates	tonnes	40	1 626	16 375	996	1 141
Potash						
Sulphate	tonnes	(a) *33 300	(a) *51 300	(a) *34 900	33 484	(a) *7 400
Other potassic fertilisers	tonnes	3 075	710	1 094	38 993	65 068
Salt	tonnes	1 812	581	458	384	531
Silver						
Ores & concentrates	kilograms	530 720	357 250	507 350	416 650	262 669
Metal	kilograms	6 886	6 882	9 804	6 764	6 041
Sulphur and pyrites						
Pyrites (a)	tonnes	*282 000	*266 000	*279 000	*100 000	*73 000
Talc (a)	tonnes	*120 000	*227 000	*276 000	*278 000	*246 000
Tin						
Unwrought alloys	tonnes	33	9	46	60	90
Scrap	tonnes	104	126	86	58	89
Titanium						
Metal	tonnes	26	30	22	44	35
Oxides (a)	tonnes	*127 000	*84 000	*98 000	*104 000	*103 000
Tungsten						
Metal	tonnes	49	67	91	77	80
Zinc						
Unwrought	tonnes	186 916	212 125	235 735	235 320	233 041
Unwrought alloys	tonnes	105	97	436	83	190
Scrap	tonnes	7 324	5 195	2 281	2 116	1 650

Note(s):-

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

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	29 163	47 702	75 016	43 488	254 665
Aluminium and bauxite						
Bauxite	tonnes	3 790	6 027	4 782	3 661	6 366
Alumina	tonnes	2 042	1 904	2 220	2 659	2 327
Alumina hydrate	tonnes	44 570	24 958	37 361	28 300	31 024
Unwrought	tonnes	13 704	3 534	3 295	4 057	1 145
Unwrought alloys	tonnes	24 253	33 174	37 999	40 510	39 755
Scrap	tonnes	30 310	23 445	18 901	15 537	14 906
Antimony						
Oxide	tonnes	238	238	248	199	256
Barytes	tonnes	3 070	3 119	3 559	3 931	4 498
Bentonite and fuller's earth						
Bentonite	tonnes	27 758	26 569	27 321	26 395	32 520
Fuller's earth	tonnes	207	212	322	201	109
Bromine	kilograms	57 054	56 506	71 251	71 000	36 158
Cement						
Cement clinkers	tonnes	7 265	67 297	28 129	17 594	95 730
Portland cement	tonnes	382 160	438 363	423 958	383 260	380 296
Other cement	tonnes	8 669	9 654	9 344	13 211	12 176
Chromium						
Ores & concentrates	tonnes	4 294	6 050	6 092	6 962	8 388
Metal	tonnes	87	190	164	258	575
Coal						
Hard coal (a)	tonnes	5 788 973	10 145 037	8 283 891	4 724 392	6 683 990
Cobalt						
Ore	tonnes	64 274	41 707	80 202	54 794	31 186
Metal	tonnes	(b) *400	(b) *100	(b) *700	1 759	26 928
Oxides	tonnes	4	45	126	336	186
Copper						
Ores & concentrates	tonnes	500 798	543 488	528 930	504 658	544 149
Unwrought alloys	tonnes	3 796	4 311	2 778	3 229	3 996
Scrap	tonnes	3 190	2 472	1 735	2 423	1 259
Diamond						
Unsorted	carats	...	...	55 000	120 000	105 000
Gem, cut	carats	...	...	235 000	355 000	440 000
Dust	carats	445 000	365 000	320 000	450 000	620 000
Diatomite	tonnes	5 871	6 981	5 881	2 700	2 339
Feldspar	tonnes	352	104	257	380	796
Fluorspar	tonnes	10 089	18 672	17 069	16 597	15 011
Gold						
Metal	kilograms	1 132	1 230	1 332	949	931
Waste & scrap	kilograms	46 928	90 780	67 582	22 981	4
Graphite	tonnes	281	197	168	84	63
Gypsum						
Crude	tonnes	286 347	231 517	278 645	341 680	310 245
Calcined	tonnes	7 682	7 066	7 010	7 517	9 958
Iodine	kilograms	9 000	4 879	27 020	6 209	2 066
Iron ore						
Iron ore	tonnes	3 791 710	4 212 158	3 921 507	4 215 633	3 481 019
Burnt pyrites	tonnes	13 132	26 163	63	—	—

Finland

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	72 083	41 213	30 453	27 160	45 364
Sponge & powder	tonnes	16 335	28 412	16 906	969	779 146
Ferro-chrome	tonnes	5 690	9 395	6 562	7 404	17 926
Ferro-manganese	tonnes	12 744	16 237	15 805	14 728	14 828
Ferro-silico-manganese	tonnes	32 832	41 466	40 800	38 375	38 440
Ferro-molybdenum	tonnes	2 333	2 776	2 709	2 293	1 948
Ferro-nickel	tonnes	61 244	71 996	60 213	47 531	53 741
Ferro-niobium	tonnes	485	494	470	478	493
Ferro-phosphorus	tonnes	139	506	570	489	550
Ferro-silicon	tonnes	20 729	37 976	32 507	25 723	36 659
Ferro-titanium & ferro-silico-titanium	tonnes	1 271	1 632	2 063	1 912	1 558
Ferro-vanadium	tonnes	222	238	250	243	249
Other ferro-alloys	tonnes	3 162	3 640	4 448	4 505	4 543
Silicon metal	tonnes	2 397	1 601	2 097	1 306	1 402
Ingots, blooms, billets	tonnes	350 229	196 611	253 730	51 678	5 138
Scrap	tonnes	476 516	781 633	865 142	756 267	1 013 675
Kaolin	tonnes	1 207 343	1 305 240	1 301 806	1 144 335	1 261 699
Lead						
Unwrought	tonnes	3 032	2 753	2 582	2 854	1 571
Lithium						
Carbonate	tonnes	48	55	53	77	85
Magnesite and magnesite						
Magnesia	tonnes	10 159	17 096	11 567	16 476	9 540
Manganese						
Ores & concentrates	tonnes	36 014	9 983	20 381	28 335	10 433
Metal	tonnes	997	717	547	753	2 182
Mercury	kilograms	158	214	554	28	38
Mica	tonnes	2 621	3 664	2 861	2 998	2 874
Molybdenum						
Ores & concentrates	tonnes	3 581	4 868	5 603	4 127	9 270
Nickel						
Ores & concentrates	tonnes	178 968	146 122	169 170	104 983	190 233
Mattes, sinters etc.	tonnes	57 571	51 225	42 944	50 194	45 851
Unwrought (c)	tonnes	14 977	24 289	24 307	23 801	27 939
Scrap	tonnes	90	200	1 332	860	757
Oxides	tonnes	6 093	0	11	...	1
Crude petroleum	tonnes	11 745 754	12 019 477	12 249 366	10 603 534	12 176 669
Phosphates	tonnes	55 716	55 555	57 184	488	343
Platinum metals						
Platinum & platinum metals	kilograms	296	773	231	495	309
Potash						
Chloride (d)	tonnes	156 100	177 100	192 600	148 400	161 400
Rare earths						
Cerium compounds	tonnes	1	117	73	83	117
Salt	tonnes	447 703	395 727	408 367	438 346	401 961
Sillimanite	tonnes	338	299	302	445	207
Silver						
Metal	kilograms	87 543	56 470	75 350	70 623	64 504
Sulphur and pyrites						
Sulphur	tonnes	26 123	19 575	8 238	310	11 925
Talc	tonnes	3 251	3 971	1 827	866	757
Tin						
Unwrought (c)	tonnes	149	151	126	178	173
Titanium						
Titanium minerals	tonnes	...	...	...	5 080	34 403
Oxides	tonnes	10 335	11 390	13 163	14 380	14 788
Tungsten						
Metal	tonnes	113	169	119	121	21

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Zinc						
Ores & concentrates	tonnes	433 196	436 345	479 603	499 024	520 081
Unwrought alloys	tonnes	...	566	908	1 218	1 372
Scrap	tonnes	2 030	2 511	395	711	138

Note(s):-

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

France

France

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	167 970 000	165 470 000	168 080 000	168 640 000	174 360 000
Crushed rock	tonnes	215 290 000	217 400 000	223 170 000	222 780 000	233 090 000
Bauxite	tonnes	150 000	170 000	170 000	175 000	160 000
Alumina	tonnes (Al ₂ O ₃ content)	*500 000	*500 000	*500 000	*500 000	*500 000
Primary aluminium	tonnes	463 000	444 000	447 000	440 000	442 100
White arsenic	tonnes	*1 000	*1 000	*1 000	*1 000	*1 000
Barytes	tonnes	85 200	81 100	81 000	*81 000	*40 000
Bromine	kilograms	*8 000 000	*8 000 000	*8 000 000	*8 000 000	*8 000 000
Cadmium	tonnes	154	*120	*120	*100	*100
Cement clinker	tonnes	16 479 000	16 313 000	17 157 000	17 332 000	17 731 000
Cement, finished	tonnes	19 437 000	19 655 000	20 962 000	21 277 000	22 268 000
Coal						
Anthracite & bituminous	tonnes	1 483 000	1 728 000	200 000	—	—
Lignite	tonnes	147 000	9 000	—	—	—
Diatomite	tonnes	*80 000	*80 000	*75 000	*75 000	*75 000
Feldspar	tonnes	659 000	654 000	628 000	651 000	*650 000
Fluorspar	tonnes	122 000	90 000	70 000	53 000	*40 000
Gold, mine	kilograms (metal content)	1 724	1 470	—	—	—
Gypsum	tonnes	*4 900 000	*5 600 000	*5 700 000	4 902 498	*4 800 000
Iron ore	tonnes	21 367	—	—	—	—
Pig iron	tonnes	13 093 042	12 615 893	13 087 705	12 595 584	12 873 900
Crude steel	tonnes	20 258 473	19 757 864	20 770 252	19 480 777	19 852 025
Ferro-alloys						
Ferro-manganese & spiegeleisen	tonnes	416 569	*300 000	*106 000	109 111	139 533
Ferro-silico-manganese	tonnes	66 215	*107 000	*64 000	*65 000	...
Ferro-silicon	tonnes	*100 000	*100 000	*100 000	*100 000	*100 000
Silicon metal	tonnes	84 768	*85 000	*85 000	*85 000	*85 000
Kaolin	tonnes	339 000	335 000	316 000	293 000	*300 000
Lead, refined	tonnes	203 400	91 000	89 000	*90 000	*88 000
Primary magnesium metal	tonnes	2 000	—	—	—	—
Mica (a)	tonnes	17 000	18 000	19 000	*20 000	*20 000
Nickel, smelter/refinery	tonnes	11 444	11 370	12 103	12 684	13 700
Crude petroleum	tonnes	1 316 890	1 219 000	1 288 000	1 179 000	1 100 000
Natural gas	million m ³	1 751	1 523	1 325	1 089	1 167
Potash						
Potassic salts	tonnes (K ₂ O content)	128 000	—	—	—	—
Salt						
Rock salt	tonnes	434 000	320 000	406 000	494 000	...
Brine salt	tonnes	1 456 000	1 409 000	1 433 000	1 468 000	...
Salt in brine	tonnes	4 056 000	4 351 000	4 408 000	4 750 780	(b) 9 371 000
Sea salt	tonnes	848 000	1 302 000	1 365 000	1 026 000	...
Sillimanite minerals						
Andalusite	tonnes	59 000	62 000	68 000	*65 000	*65 000
Silver, mine	kilograms (metal content)	709	495	682	—	—
Sulphur and pyrites						
Recovered (c)	tonnes (sulphur content)	795 600	710 400	698 400	622 345	616 234
Recovered (d)	tonnes (sulphur content)	229 000	196 000	150 000	127 000	124 000
Talc	tonnes	359 000	394 000	402 000	416 000	*400 000
Uranium, mine	tonnes (metal content)	12	—	—	—	—
Slab zinc	tonnes	333 300	257 000	260 000	209 000	210 000

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) Salt; all forms
- (c) From petroleum refining and/or natural gas
- (d) Other

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	11 154 637	10 116 439	9 389 763	8 492 936	8 928 358
Aluminium and bauxite						
Bauxite	tonnes	14 013	253	2 985	5 195	46 042
Alumina	tonnes	167 309	188 951	232 762	255 392	224 866
Alumina hydrate	tonnes	103 258	125 437	144 331	139 694	168 250
Unwrought	tonnes	81 601	63 659	70 010	77 097	65 943
Unwrought alloys	tonnes	75 069	75 318	78 047	95 700	148 253
Scrap	tonnes	274 551	257 279	299 226	314 243	345 107
Antimony						
Metal	tonnes	104	8	79	186	53
Oxide	tonnes	3 391	4 352	4 540	5 177	4 964
Arsenic						
Metallic arsenic	tonnes	...	0	...	8	15
Asbestos	tonnes	...	5	31	—	8
Barytes (a)	tonnes	*30 200	*55 500	*75 700	*57 700	*36 300
Bentonite and fuller's earth						
Bentonite	tonnes	20 343	18 966	7 696	9 243	9 788
Fuller's earth	tonnes	34	—	10	31	2
Bismuth						
Metal	tonnes	26	46	28	39	24
Cadmium						
Metal	tonnes	1 232	794	604	533	798
Cement						
Cement clinkers	tonnes	555 646	479 952	460 364	310 228	325 352
Portland cement	tonnes	549 756	604 494	785 100	792 192	683 110
Other cement	tonnes	157 945	144 523	112 828	102 222	113 145
Chromium						
Ores & concentrates	tonnes	2 835	2 879	2 928	2 340	2 013
Metal	tonnes	5 056	4 498	7 182	8 074	6 457
Coal						
Anthracite	tonnes	26 834	9 324	1 077	14 913	10 442
Other coal	tonnes	94 865	74 343	93 265	68 197	128 523
Cobalt						
Metal	tonnes	516	502	675	699	709
Oxides	tonnes	64	69	221	57	68
Copper						
Unwrought	tonnes	15 723	32 947	60 745	48 050	47 839
Unwrought alloys	tonnes	9 283	6 585	11 940	9 851	9 680
Scrap	tonnes	192 020	180 294	243 074	262 874	290 528
Diamond						
Unsorted	carats	£283 000	£398 000	£274 000	£518 000	£451 000
Gem, rough	carats	...	...	...	500 000	...
Gem, cut	carats	...	1 000 000	1 500 000	1 500 000	...
Industrial	carats	£2 554 000	£915 000	£20 000	£50 000	£388 000
Diatomite	tonnes	27 647	30 199	26 043	25 379	24 866
Feldspar	tonnes	290 340	286 371	219 741	255 836	224 062
Fluorspar	tonnes	47 439	18 519	12 002	6 821	28
Gold						
Metal	kilograms	29 700	34 600	31 500	18 100	30 445
Waste & scrap	kilograms	40 800	33 700	70 500	29 600	29 600
Graphite	tonnes	...	167	122	225	85
Gypsum						
Crude	tonnes	427 138	335 780	324 894	250 845	321 789
Calcined	tonnes	286 568	297 326	311 437	350 955	349 703
Iodine	kilograms	107 000	30 900	30 500	40 900	51 300
Iron ore	tonnes	16 649	43 473	38 413	106 849	76 097

France

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 378	153	679	350	113 729
Sponge & powder	tonnes	5 983	6 231	5 221	6 465	13 059
Ferro-chrome	tonnes	3 747	1 456	1 074	857	875
Ferro-silico-magnesium	tonnes	6 521	5 262	5 521	6 829	2 165
Ferro-manganese	tonnes	26 302	28 094	14 360	7 181	7 483
Ferro-silico-manganese	tonnes	73 647	53 270	63 483	76 021	53 278
Ferro-molybdenum	tonnes	348	300	538	547	673
Ferro-nickel	tonnes	104	2	7	25	71
Ferro-niobium	tonnes	361	926	521	240	596
Ferro-silicon	tonnes	53 682	65 871	65 881	69 551	63 432
Ferro-titanium & ferro-silico-titanium	tonnes	1 434	1 463	1 305	1 542	1 992
Ferro-vanadium	tonnes	25	50	53	98	45
Other ferro-alloys	tonnes	35 746	37 534	34 781	34 138	24 748
Ingots, blooms, billets	tonnes	3 419 270	3 420 829	3 833 258	3 914 427	3 071 836
Scrap	tonnes	4 656 513	4 990 462	5 578 148	4 955 474	6 019 890
Kaolin	tonnes	325 323	1 613 484	484 554	421 927	968 538
Lead						
Unwrought	tonnes	60 095	12 868	6 182	6 920	25 933
Scrap	tonnes	23 473	27 789	27 003	24 683	21 854
Lithium						
Carbonate	tonnes	2 955	2 382	1 166	462	12
Magnesite and magnesia						
Magnesite	tonnes	399	507	241	230	241
Magnesia	tonnes	14 126	23 037	37 930	45 661	47 832
Manganese						
Ores & concentrates (b)	tonnes	413 461	332 067	272 815	139 723	303 881
Metal	tonnes	168	424	745	324	415
Mercury	kilograms	7 100	6 800	93 800	15 400	27 300
Mica	tonnes	4 387	114 464	14 323	13 469	12 845
Molybdenum						
Metal	tonnes	65	15	436	35	38
Oxides	tonnes	20	27	31	9	10
Nickel						
Unwrought	tonnes	7 460	8 396	9 203	10 148	11 761
Unwrought alloys	tonnes	294	542	1 455	1 762	999
Scrap	tonnes	6 625	8 306	6 618	6 373	7 826
Oxides	tonnes	24	359	1 140	63	433
Crude petroleum	tonnes	90 903	91 091	39	20 374	2 675
Phosphates	tonnes	1 488	1 018	6 362	4 463	10 147
Platinum metals						
Platinum	kilograms	5 300	3 800	2 800	1 700	...
Platinum metals	kilograms	4 600	3 400	5 200	2 600	...
Waste & scrap	kilograms	107 500	35 400	44 182	184 400	383 300
Potash						
Sulphate	tonnes	740	860	8 248	54 235	32 887
Chloride	tonnes	95 248	41 600	19 459	6 376	3 185
Other potassic fertilisers	tonnes	536	660	1 271	841	...
Rare earths						
Rare earth compounds	tonnes	314	1 660	8 588	2 007	2 185
Ferro-cerium & other pyrophoric alloys	tonnes	94	109	125	32	...
Metals	tonnes	231	58	65	7	24
Salt	tonnes	437 847	497 458	506 431	407 255	254 487
Sillimanite	tonnes	46 454	49 958	51 653	55 052	59 002
Silver						
Metal	kilograms	584 600	465 300	404 600	252 300	371 386
Sulphur and pyrites						
Sulphur, crude	tonnes	385 326	382 273	481 226	347 690	(c) 294 003
Sulphur, refined	tonnes	10 988	16 851	16 076	13 904	...
Sulphur, sublimed & precipitated	tonnes	764	652	562	642	619
Talc	tonnes	222 699	226 550	262 147	279 659	273 706
Tantalum and niobium						
Tantalum	tonnes	207	3	20	101	9

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Tin						
Unwrought	tonnes	354	577	430	324	368
Unwrought alloys	tonnes	659	612	527	1 020	1 010
Scrap	tonnes	618	279	457	478	893
Titanium						
Metal	tonnes	4 180	3 722	4 086	5 891	5 722
Oxides	tonnes	199 744	180 080	172 796	157 543	167 807
Tungsten						
Metal	tonnes	624	538	571	574	617
Carbide	tonnes	348	241	251	265	343
Vanadium						
Pentoxide	tonnes	8	183	138	13	10
Metal	tonnes	0	0	26	25	63
Zinc						
Ores & concentrates	tonnes	17 775	37 167	38 779	39 463	47 516
Unwrought	tonnes	143 307	109 839	115 352	80 472	31 960
Unwrought alloys	tonnes	31 535	31 625	35 879	33 940	12 205
Scrap	tonnes	33 611	38 294	56 440	63 571	71 224
Zirconium						
Concentrates	tonnes	1 126	653	1 129	1 058	2 316

Note(s):-

- (a) BGS estimates, based on known imports into certain countries
(b) Including manganiferous Iron ore
(c) Including refined

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	9 666 340	8 239 025	9 431 953	10 264 292	12 064 403
Aluminium and bauxite						
Bauxite	tonnes	1 347 713	1 786 905	1 507 504	1 799 671	1 664 642
Alumina	tonnes	670 046	704 393	644 513	655 246	667 146
Alumina hydrate	tonnes	43 727	44 743	41 187	41 682	45 085
Unwrought	tonnes	148 344	165 490	144 053	150 798	198 042
Unwrought alloys	tonnes	325 980	324 997	369 795	366 369	394 929
Scrap	tonnes	133 794	149 876	143 833	135 611	208 142
Antimony						
Metal	tonnes	6 645	5 241	8 486	7 766	8 919
Oxide	tonnes	2 093	1 972	2 096	2 243	2 092
Arsenic						
Metallic arsenic	tonnes	17	4	9	21	20
Asbestos	tonnes	0	3	8	5	52
Barytes	tonnes	20 442	23 009	28 748	31 965	24 471
Bentonite and fuller's earth						
Bentonite	tonnes	174 735	170 540	220 260	163 999	220 996
Fuller's earth	tonnes	1 794	3 701	17 907	18 445	23 522
Bismuth						
Metal	tonnes	728	629	830	1 029	547
Bromine	kilograms	12 437 700	13 225 500	12 595 900	13 989 000	13 971 600
Cadmium						
Metal	tonnes	1 682	1 248	1 465	2 114	527
Oxide	tonnes	910	839	743	584	...
Sulphide	tonnes	82	20	5 802	6	—
Cement						
Cement clinkers	tonnes	852 287	793 933	865 213	946 642	1 010 056
Portland cement	tonnes	1 114 553	1 090 120	1 114 684	1 271 478	1 556 864
Other cement	tonnes	1 190 848	1 123 098	927 157	984 597	1 120 524
Chromium						
Ores & concentrates	tonnes	22 534	22 917	19 770	18 980	23 031
Metal	tonnes	782	677	1 323	669	1 040

France

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Coal						
Anthracite	tonnes	1 323 661	1 557 639	2 076 592	3 266 840	3 018 025
Other coal	tonnes	13 960 659	15 082 984	17 619 595	16 234 759	16 372 754
Lignite	tonnes	23 470	41 784	40 405	34 396	36 436
Briquettes	tonnes	74 423	68 883	75 872	116 845	147 381
Cobalt						
Ore	tonnes	45	9	5	1	10
Metal	tonnes	1 654	1 813	*1 600	2 038	2 117
Oxides	tonnes	370	533	522	474	562
Copper						
Matte & cement	tonnes	58	1 651	386	19	20
Unwrought, unrefined	tonnes	253	118	168	248	275
Unwrought, refined	tonnes	576 398	578 525	590 304	516 881	506 721
Unwrought alloys	tonnes	13 722	8 308	7 564	10 132	11 029
Scrap	tonnes	65 362	70 422	78 853	75 464	97 462
Diamond						
Unsorted	carats	£3 788 000	£3 728 000	£3 423 000	£3 168 000	£3 113 000
Gem, rough	carats	...	...	...	£6 148 000	£2 720 000
Gem, cut	carats	10 000 000	12 500 000	10 000 000	...	...
Industrial	carats	5 500 000	3 000 000	9 000 000	...	...
Dust	carats	10 500 000	10 500 000	10 000 000	7 500 000	2 007 491
Diatomite	tonnes	12 168	12 194	12 368	11 181	12 712
Feldspar	tonnes	40 941	37 538	44 615	85 460	54 106
Fluorspar	tonnes	3 510	7 006	10 457	21 526	34 972
Gold						
Metal	kilograms	35 359	31 098	24 425	28 786	29 583
Waste & scrap	kilograms	4 600	12 500	...	5 200	1 500
Graphite	tonnes	13 016	11 149	15 083	20 449	19 430
Gypsum						
Crude	tonnes	168 598	266 857	311 411	361 820	588 367
Calcined	tonnes	48 920	45 214	85 845	60 358	68 652
Iodine	kilograms	1 553 000	1 563 800	1 317 700	1 685 200	1 929 100
Iron ore						
Iron ore	tonnes	19 069 088	18 890 174	20 777 700	19 506 894	19 463 057
Burnt pyrites	tonnes	0	3 348	65	160	3 451
Iron, steel and ferro-alloys						
Pig iron	tonnes	225 850	254 512	237 824	249 585	183 755
Sponge & powder	tonnes	140 863	148 215	151 090	184 661	219 813
Ferro-chrome	tonnes	310 760	260 231	224 722	192 129	159 940
Ferro-silico-chrome	tonnes	2 116	1 524	59	122	677
Ferro-silico-magnesium	tonnes	2 166	1 840	1 524	920	928
Ferro-manganese	tonnes	57 442	46 048	96 276	55 239	57 240
Ferro-silico-manganese	tonnes	64 538	73 362	61 446	58 403	49 287
Ferro-molybdenum	tonnes	4 839	4 643	5 474	5 235	5 223
Ferro-nickel	tonnes	36 725	28 974	10 966	9 229	4 487
Ferro-niobium	tonnes	1 703	2 286	2 297	2 722	2 597
Ferro-phosphorus	tonnes	2 464	2 160	2 942	2 536	2 360
Ferro-silicon	tonnes	87 071	70 729	62 260	71 269	64 727
Ferro-titanium & ferro-silico-titanium	tonnes	5 441	4 828	4 768	6 448	9 037
Ferro-tungsten & ferro-silico-tungsten	tonnes	283	485	346	523	839
Ferro-vanadium	tonnes	940	1 063	1 031	1 351	1 396
Other ferro-alloys	tonnes	16 543	16 253	18 670	27 582	20 896
Silicon metal	tonnes	19 212	16 489	19 299	25 257	21 813
Ingots, blooms, billets	tonnes	1 777 677	1 595 528	1 803 335	1 621 219	1 557 219
Scrap	tonnes	2 833 589	3 019 857	3 449 108	2 819 160	3 319 269
Kaolin	tonnes	386 197	325 358	349 353	338 848	320 425
Lead						
Ores & concentrates	tonnes	146 270	186	97	253	186
Unwrought	tonnes	80 812	103 439	91 979	109 426	121 930
Scrap	tonnes	44 079	30 508	34 513	33 818	32 705
Lithium						
Oxides	tonnes	329	347	407	482	369
Carbonate	tonnes	1 612	1 381	1 484	1 392	1 186
Magnesite and magnesia						
Magnesite	tonnes	9 434	3 193	1 701	3 427	2 509
Magnesia	tonnes	146 526	149 468	148 780	161 488	161 029

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Manganese						
Ores & concentrates (a)	tonnes	968 498	892 176	626 061	615 884	611 043
Metal	tonnes	8 693	7 613	8 851	11 039	11 131
Mercury	kilograms	25 200	57 900	299 200	202 600	138 100
Mica						
Ground (b)	tonnes	1 241	3 182	1 358	1 534	2 674
Waste	tonnes	2 001	1 043	546	1 423	—
Molybdenum						
Ores & concentrates	tonnes	1 604	1 591	1 492	1 783	1 896
Metal	tonnes	686	727	762	993	1 075
Oxides	tonnes	284	371	664	678	579
Nickel						
Mattes, sinters etc.	tonnes	15 496	15 087	12 329	15 399	19 818
Unwrought	tonnes	39 979	30 995	26 842	22 656	26 631
Unwrought alloys	tonnes	2 269	3 192	5 350	6 104	5 500
Scrap	tonnes	2 048	2 210	2 068	1 554	2 393
Oxides	tonnes	140	200	166	228	297
Crude petroleum	tonnes	80 589 846	84 181 898	86 416 072	84 951 337	83 411 036
Phosphates	tonnes	919 097	773 860	593 253	427 194	387 794
Platinum metals						
Platinum	kilograms	8 500	5 100	6 200	5 396	...
Platinum metals	kilograms	12 100	15 400	17 900	3 432	...
Waste & scrap	kilograms	200 100	334 300	40 700	55 600	370 600
Potash						
Fertiliser salts	tonnes	2 337	1 807	1 988	1 401	712
Sulphate	tonnes	93 051	90 543	77 441	70 705	33 194
Chloride	tonnes	1 463 860	1 755 346	1 866 149	1 492 129	777 056
Other potassic fertilisers	tonnes	25 410	32 600	31 959	29 488	11 432
Rare earths						
Cerium compounds	tonnes	9 914	10 315	11 710	7 105	9 723
Other rare earth compounds	tonnes	382	1 480	1 037	585	1 329
Ferro-cerium & other pyrophoric alloys	tonnes	29	2	1	5	...
Metals	tonnes	169	279	251	322	479
Salt	tonnes	564 159	753 902	850 703	1 110 898	1 024 789
Sillimanite	tonnes	2 685	3 411	3 360	3 080	4 813
Silver						
Ores & concentrates	kilograms	17 500	...	19 800	...	16 300
Metal	kilograms	954 400	970 000	675 000	729 800	...
Sulphur and pyrites						
Pyrites	tonnes	7 314	3 359	5 643	4 521	2 533
Sulphur, crude	tonnes	42 855	50 147	43 846	39 973	...
Sulphur, refined	tonnes	74 225	56 388	27 041	42 353	(c) 72 785
Sulphur, sublimed & precipitated	tonnes	2 622	2 488	12 555	5 809	2 439
Talc	tonnes	43 342	40 650	77 240	76 021	59 853
Tantalum and niobium						
Tantalum	tonnes	42	41	67	23	55
Tin						
Unwrought	tonnes	9 044	9 693	9 167	7 307	8 159
Unwrought alloys	tonnes	169	701	638	1 080	931
Scrap	tonnes	541	148	24	217	182
Titanium						
Ilmenite	tonnes	151 799	127 083	48 930	60 205	83 499
Other titanium minerals	tonnes	12 291	34 984	81 141	86 552	78 849
Titanium slag	tonnes	123 144	...	61 456	111 137	107 092
Metal	tonnes	6 461	5 689	8 259	9 403	9 431
Oxides	tonnes	138 316	151 809	140 068	119 699	135 309
Tungsten						
Metal	tonnes	422	448	568	784	925
Carbide	tonnes	604	695	692	592	898
Vanadium						
Ores & concentrates	tonnes	126	1	...	21	—
Pentoxide	tonnes	382	496	441	556	533
Metal	tonnes	54	34	72	88	71

France

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Zinc						
Ores & concentrates	tonnes	558 771	482 493	458 760	423 664	250 791
Unwrought	tonnes	98 355	115 491	103 037	143 476	170 263
Unwrought alloys	tonnes	32 740	34 874	56 492	45 566	47 309
Scrap	tonnes	11 144	8 203	6 046	6 996	7 833
Zirconium						
Concentrates	tonnes	43 841	58 457	48 004	53 701	48 973
Metal	tonnes	251	288	276	207	378

Note(s):-

- (a) Including manganiferous Iron ore
- (b) Including unmanufactured
- (c) Including crude

Germany

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	292 100 000	285 500 000	267 300 000	252 000 000	266 000 000
Crushed rock	tonnes	130 693 000	124 047 000	125 600 000	122 244 000	132 700 000
Alumina	tonnes (Al ₂ O ₃ content)	*825 000	*830 000	*835 000	*830 000	*830 000
Primary aluminium	tonnes	652 845	660 783	667 800	647 900	515 500
White arsenic	tonnes	*200	—	—	—	—
Barytes	tonnes	100 993	109 506	93 624	88 591	85 524
Bentonite and fuller's earth						
Bentonite	tonnes	495 310	478 796	404 549	352 374	363 998
Bromine	kilograms	*500 000	*500 000	—	—	—
Cadmium	tonnes	422	640	*640	*640	*640
Cement clinker	tonnes	20 120 000	21 513 000	26 281 000	24 315 000	...
Cement, finished	tonnes	31 200 000	32 700 000	31 900 000	30 600 000	33 500 000
Coal						
Anthracite & bituminous	tonnes	26 363 084	25 873 043	25 871 882	24 909 867	20 882 119
Brown coal	tonnes	181 778 432	179 086 923	181 926 060	177 907 945	176 324 117
Copper, smelter	tonnes	295 100	288 800	278 600	257 200	273 800
Copper, refined	tonnes	695 741	597 531	652 600	638 800	662 300
Feldspar	tonnes	243 368	233 028	182 842	168 640	167 332
Fluorspar	tonnes	34 429	33 289	33 203	35 364	53 009
Graphite	tonnes	3 312	2 840	3 155	2 638	—
Gypsum (a)	tonnes	1 761 000	1 748 000	1 579 000	1 644 000	1 771 000
Iron ore (b) (c)	tonnes	419 371	429 170	412 238	362 106	411 973
Pig iron	tonnes	29 967 000	30 071 000	30 628 000	29 294 000	30 360 000
Crude steel	tonnes	45 015 000	44 809 000	46 377 000	44 524 000	47 224 000
Ferro-alloys						
Ferro-chrome	tonnes	20 018	18 318	24 857	22 672	26 710
Other ferro-alloys	tonnes	*30 000	*30 000	*30 000	*30 000	*30 000
Silicon metal	tonnes	25 257	27 870	28 773	29 349	29 865
Kaolin (d)	tonnes	740 821	738 123	*740 000	*750 000	*750 000
Lead, refined	tonnes	379 905	356 900	359 200	341 700	321 500
Crude petroleum	tonnes	3 768 054	3 799 864	3 515 537	3 572 764	3 514 284
Natural gas	million m ³	21 556	22 228	20 411	19 171	19 776
Potash						
Potassic Salts	tonnes (K ₂ O content)	3 471 763	3 563 932	3 626 510	3 663 829	3 624 977
Salt						
Rock salt	tonnes	6 134 000	6 178 000	7 268 000	8 258 000	9 280 000
Brine salt	tonnes	1 249 000	1 123 000	974 000	1 006 000	1 001 000
Salt in brine	tonnes	6 310 000	6 668 000	7 212 000	7 449 000	7 189 000
Selenium metal	tonnes	*16	*14	*14	*12	12
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	46 000	—	—	—	—
Recovered (f)	tonnes (sulphur content)	1 657 200	1 619 900	1 526 700	1 627 900	1 706 200
Recovered (g)	tonnes (sulphur content)	41 900	43 900	40 000	42 900	42 500
Talc	tonnes	*8 000	3 859	...	...	...
Uranium, mine	tonnes (metal content)	221	104	77	80	65
Slab zinc	tonnes	378 561	388 131	382 020	334 900	342 600

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 manganiferous 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

Germany

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	19 748 571	19 811 898	21 817 271	21 698 651	25 912 337
Aluminium and bauxite						
Bauxite	tonnes	42 524	26 666	30 647	28 087	30 772
Alumina	tonnes	201 103	308 210	294 034	204 075	313 586
Alumina hydrate	tonnes	488 918	472 091	528 700	527 900	717 433
Unwrought	tonnes	59 597	48 570	58 365	60 757	72 132
Unwrought alloys	tonnes	327 962	340 772	354 998	330 843	360 157
Scrap	tonnes	499 791	556 405	544 522	583 987	675 261
Antimony						
Metal	tonnes	10	27	12	15	30
Oxide	tonnes	543	683	786	724	892
Arsenic						
Metallic arsenic	tonnes	9	8	14	20	20
Barytes	tonnes	32 297	32 546	32 383	32 375	33 947
Bentonite and fuller's earth						
Bentonite	tonnes	43 329	57 237	50 477	71 977	77 368
Fuller's earth	tonnes	197	299	860	1 540	1 378
Bismuth						
Metal	tonnes	228	152	275	371	534
Bromine	kilograms	13 700	16 700	5 600	3 000	4 600
Cadmium						
Sulphide	tonnes	2	5	6	14	4
Cement						
Cement clinkers	tonnes	411 711	1 001 024	868 384	773 394	687 056
Portland cement	tonnes	2 083 433	2 472 418	3 496 157	3 587 966	4 251 126
Other cement	tonnes	1 226 979	1 196 558	1 580 315	1 876 289	1 852 990
Chromium						
Ores & concentrates	tonnes	11 760	3 666	12 691	14 188	24 185
Metal	tonnes	762	2 096	1 256	1 478	2 877
Coal						
Hard coal (a)	tonnes	49 449	182 233	183 694	255 029	199 311
Lignite	tonnes	273 953	71 777	430	73	27 801
Briquettes	tonnes	173 867	156 179	87 651	74 800	83 653
Cobalt						
Metal	tonnes	901	1 116	1 441	1 395	1 602
Oxides	tonnes	122	151	233	185	140
Copper						
Ores & concentrates	tonnes	15 630	48 674	49 617	46 139	54 167
Matte & cement	tonnes	787	899	944	...	101
Unwrought, unrefined	tonnes	2 215	1 592	53	232	3 244
Unwrought, refined	tonnes	90 919	117 566	137 238	149 083	146 137
Unwrought alloys	tonnes	26 876	21 421	21 038	20 232	22 941
Scrap	tonnes	300 340	363 762	373 809	439 134	465 264
Diamond						
Unsorted	carats	£16 000	£138 000	£663 000	£756 000	£21 000
Gem, rough	carats	£10 000	£87 000	£250 000	£619 000	£95 000
Gem, cut	carats	178 297	174 915	...	165 090	...
Industrial	carats	£1 166 000	£1 254 000	£974 000	£1 168 000	£1 244 000
Dust	carats	10 000 000	17 000 000	13 500 000	9 000 000	42 500 000
Diatomite	tonnes	13 061	20 036	20 312	7 000	11 500
Feldspar	tonnes	134 033	102 472	118 838	113 329	121 046
Fluorspar	tonnes	22 274	17 105	17 594	24 061	35 207
Gold						
Metal	kilograms	45 400	36 400	36 500	47 600	65 200
Waste & scrap	kilograms	1 734 400	651 000	170 065	30 600	7 500
Graphite	tonnes	12 103	11 746	14 783	14 241	20 777
Gypsum						
Crude	tonnes	176 734	142 263	197 613	259 631	391 494
Calcined	tonnes	695 565	1 070 873	1 033 057	991 946	1 471 660
Iodine	kilograms	2 637 000	583 100	640 400	465 800	340 600
Iron ore						
Iron ore	tonnes	15 521	9 376	8 756	7 023	18 294
Burnt pyrites	tonnes	6 907	6 491	3 241	7 257	6 623

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	67 365	56 571	112 911	82 834	180 939
Sponge & powder	tonnes	83 354	95 612	148 734	175 291	197 636
Ferro-chrome	tonnes	33 992	30 640	22 758	26 472	36 289
Ferro-silico-chrome	tonnes	608	1	79	4	55
Ferro-silico-magnesium	tonnes	6 825	5 551	13 887	14 254	12 142
Ferro-manganese	tonnes	13 036	8 937	13 776	12 660	24 659
Ferro-silico-manganese	tonnes	11 520	10 306	9 286	2 928	9 748
Ferro-molybdenum	tonnes	1 283	2 054	2 597	3 867	3 499
Ferro-nickel	tonnes	57	94	625	31	115
Ferro-niobium	tonnes	828	713	1 076	1 448	1 130
Ferro-phosphorus	tonnes	1 163	691	786	936	977
Ferro-silicon	tonnes	64 000	60 016	61 239	53 979	53 963
Ferro-titanium & ferro-silico-titanium	tonnes	3 607	2 478	3 069	5 263	4 795
Ferro-tungsten & ferro-silico-tungsten	tonnes	106	268	178	176	423
Ferro-vanadium	tonnes	634	653	600	528	268
Other ferro-alloys	tonnes	22 860	21 610	27 285	25 838	23 784
Silicon metal	tonnes	10 060	16 141	18 064	—	—
Ingots, blooms, billets	tonnes	2 011 458	2 563 182	2 104 580	1 950 158	2 171 036
Scrap	tonnes	6 880 778	6 718 904	6 956 839	6 692 022	7 605 306
Kaolin	tonnes	333 927	359 926	369 141	301 870	463 804
Lead						
Ores & concentrates	tonnes	22 024	31 512	3 423	102	475
Unwrought	tonnes	169 142	129 550	120 361	122 120	126 790
Scrap	tonnes	13 646	15 468	12 412	11 064	8 390
Lithium						
Oxides	tonnes	532	649	625	...	...
Carbonate	tonnes	1 768	2 484	2 660	2 991	2 907
Magnesite and magnesia						
Magnesite	tonnes	186	878	218	61	132
Magnesia	tonnes	66 559	45 840	66 422	81 021	93 286
Manganese						
Metal	tonnes	11 548	10 703	12 261	17 824	19 757
Mercury	kilograms	59 500	48 900	55 500	36 200	40 000
Mica	tonnes	2 018	2 457	3 655	3 656	4 039
Molybdenum						
Ores & concentrates	tonnes	240	905	2 309	2 770	3 812
Metal	tonnes	1 274	1 465	2 014	2 241	2 958
Oxides	tonnes	2 523	2 894	—	—	—
Nickel						
Ores & concentrates	tonnes	12 229	10 884	10 717	7 822	8 901
Mattes, sinters etc.	tonnes	...	...	644	5 604	9 285
Unwrought	tonnes	5 582	5 225	5 549	8 988	5 287
Unwrought alloys	tonnes	5 837	6 011	8 732	9 376	9 970
Scrap	tonnes	8 277	8 091	8 096	9 342	6 224
Oxides	tonnes	505	246	105	102	143
Crude petroleum	tonnes	656 861	1 741 465	1 253 391	1 257 658	344 965
Phosphates	tonnes	302	66	43	5 048	700
Platinum metals						
Platinum	kilograms	21 400	26 300	31 900	43 300	40 600
Palladium	kilograms	40 200	22 000	15 900	20 800	24 400
Other platinum metals	kilograms	4 000	2 900	4 600	11 100	16 000
Waste & scrap	kilograms	1 067 200	803 500	815 821	1 648 800	2 797 600
Potash						
Fertiliser salts (b) (c)	tonnes	2 998 738	3 103 009	3 077 154	3 235 651	*3 200 000
Rare earths						
Rare earth compounds	tonnes	102	115	108	123	145
Metals	tonnes	8	10	4	1	1
Salt	tonnes	3 340 569	3 695 084	3 201 549	3 372 522	3 943 083
Sillimanite	tonnes	10 565	12 413	14 382	12 191	13 257
Silver						
Metal	kilograms	2 638 400	3 032 700	2 814 700	2 631 200	2 995 900

Germany

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Sulphur and pyrites						
Pyrites	tonnes	483	389	339	240	486
Sulphur, crude	tonnes	943 122	856 707	854 548	862 753	(d) 796 341
Sulphur, refined	tonnes	35 614	41 163	40 135	36 067	...
Sulphur, sublimed & precipitated	tonnes	5 184	4 021	276	163	102
Talc	tonnes	7 088	5 285	3 862	3 906	4 790
Tantalum and niobium						
Niobium & tantalum ores	tonnes	545	174	93	...	...
Tantalum	tonnes	719	323	337	190	294
Tin						
Concentrates	tonnes	...	...	...	163	331
Unwrought	tonnes	1 137	909	978	1 343	1 015
Unwrought alloys	tonnes	1 077	481	408	329	392
Scrap	tonnes	719	849	994	701	965
Titanium						
Titanium minerals	tonnes	541	778	319	607	490
Metal	tonnes	6 581	6 705	8 048	8 911	8 893
Oxides	tonnes	323 059	331 806	356 007	359 946	400 832
Tungsten						
Metal	tonnes	1 735	2 209	2 816	4 020	4 320
Vanadium						
Ores & concentrates	tonnes	...	127	1 060	4 680	2 372
Pentoxide	tonnes	81	102	296	...	1 444
Metal	tonnes	351	483	522	1 469	573
Zinc						
Ores & concentrates	tonnes	43 050	4 741	695	7 257	2 336
Unwrought	tonnes	95 493	104 982	91 123	81 664	65 824
Unwrought alloys	tonnes	40 259	38 710	37 762	30 115	29 999
Scrap	tonnes	40 684	47 414	52 545	55 913	54 939
Zirconium						
Concentrates	tonnes	2 539	2 111	2 450	5 211	1 572
Metal	tonnes	343	300	275	286	434

Note(s):-

(a) Including anthracite

(b) K₂O content

(c) Including sulphate, chloride and other potassic fertilisers

(d) Including refined

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	13 306 857	11 870 353	11 127 947	11 563 984	11 147 034
Aluminium and bauxite						
Bauxite	tonnes	1 950 542	1 907 966	2 119 259	2 435 244	2 143 631
Alumina	tonnes	867 297	1 047 728	1 107 265	999 798	912 564
Alumina hydrate	tonnes	378 146	225 998	204 721	231 124	219 035
Unwrought	tonnes	721 430	796 479	628 038	648 764	754 311
Unwrought alloys	tonnes	945 177	1 099 136	1 170 875	1 121 715	1 318 713
Scrap	tonnes	483 052	462 320	462 580	438 066	539 367
Antimony						
Metal	tonnes	309	149	178	148	421
Oxide	tonnes	6 915	6 707	7 072	6 560	8 305
Arsenic						
Metallic arsenic	tonnes	5	5	4	2	...
Asbestos	tonnes	199	59	69	98	61
Barytes	tonnes	221 000	218 811	226 706	231 471	272 526
Bentonite and fuller's earth						
Bentonite	tonnes	227 785	253 998	218 349	253 226	323 999
Fuller's earth	tonnes	7 315	8 483	11 202	9 571	9 371
Bismuth						
Metal	tonnes	1 517	1 689	1 693	1 508	1 337

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Bromine	kilograms	1 775 500	1 835 400	1 626 600	1 304 000	801 100
Cadmium						
Metal	tonnes	8	11	39	16	7
Oxide	tonnes	152	143	139	231	...
Sulphide	tonnes	8	8	6	18	9
Cement						
Cement clinkers	tonnes	523 967	325 302	370 454	289 600	235 023
Portland cement	tonnes	1 197 165	906 718	1 002 404	934 865	794 716
Other cement	tonnes	321 014	277 349	343 597	380 858	345 286
Chromium						
Ores & concentrates	tonnes	114 806	126 278	128 886	141 483	126 874
Metal	tonnes	3 291	4 063	5 599	5 428	7 552
Coal						
Anthracite	tonnes	775 851	1 143 311	1 413 902	991 877	2 499 908
Other coal	tonnes	26 629 962	25 164 977	31 047 441	29 452 512	35 218 836
Lignite	tonnes	1 040 979	49 433	10 570	9 890	10 070
Briquettes	tonnes	154 033	178 993	95 446	110 971	128 877
Cobalt						
Metal	tonnes	2 349	2 568	2 602	2 990	3 532
Oxides	tonnes	346	439	448	542	759
Copper						
Ores & concentrates	tonnes	1 037 247	880 332	1 141 843	1 149 088	1 148 316
Matte & cement	tonnes	2 389	33 896	15 085	25 931	30 463
Unwrought, unrefined	tonnes	38 455	17 319	11 635	36 671	41 589
Unwrought, refined	tonnes	459 451	516 590	584 852	624 688	881 427
Unwrought alloys	tonnes	26 887	38 410	24 066	26 657	36 770
Scrap	tonnes	438 312	379 726	426 995	432 147	552 413
Diamond						
Gem, cut	carats	556 534	431 612	481 924	439 171	...
Industrial	carats	1 074 120	454 003	762 967	1 572 864	...
Dust	carats	49 500 000	69 000 000	82 500 000	38 500 000	40 000 000
Diatomite	tonnes	34 820	43 406	48 644	40 224	40 197
Feldspar	tonnes	43 033	50 809	70 064	101 931	126 834
Fluorspar	tonnes	272 913	234 067	302 071	264 896	293 737
Gold						
Metal	kilograms	44 400	40 100	49 800	56 500	54 600
Waste & scrap	kilograms	2 021 200	1 153 500	1 375 800	1 923 600	1 821 100
Graphite	tonnes	42 706	41 161	53 602	55 843	45 884
Gypsum						
Crude	tonnes	186 338	100 269	102 596	66 590	79 798
Calcined	tonnes	59 707	91 143	116 628	73 647	85 665
Iodine	kilograms	1 208 000	1 318 400	1 422 800	1 302 300	1 205 800
Iron ore						
Iron ore	tonnes	44 297 518	33 876 167	43 317 039	39 061 160	44 850 286
Burnt pyrites	tonnes	44 838	56 249	37 194	20 496	36 299
Iron, steel and ferro-alloys						
Pig iron	tonnes	229 592	221 451	342 152	320 481	422 525
Sponge & powder	tonnes	80 690	142 967	180 615	156 048	193 503
Ferro-chrome	tonnes	383 712	478 203	440 993	454 703	458 070
Ferro-silico-chrome	tonnes	2 740	8 354	11 367	1 429	12 867
Ferro-silico-magnesium	tonnes	12 651	1 103	1 722	6 831	23 761
Ferro-manganese	tonnes	183 336	178 917	175 176	170 967	195 387
Ferro-silico-manganese	tonnes	147 113	144 637	172 164	172 967	181 726
Ferro-molybdenum	tonnes	12 126	10 369	13 214	15 594	17 473
Ferro-nickel	tonnes	89 782	82 618	90 614	157 091	150 789
Ferro-niobium	tonnes	3 746	3 197	3 864	4 361	6 063
Ferro-phosphorus	tonnes	5 807	4 728	4 131	4 985	5 575
Ferro-silicon	tonnes	195 233	231 346	237 700	238 120	214 736
Ferro-titanium & ferro-silico-titanium	tonnes	11 188	8 862	6 845	10 302	13 492
Ferro-tungsten & ferro-silico-tungsten	tonnes	498	486	400	600	990
Ferro-vanadium	tonnes	4 767	5 471	4 006	4 843	5 171
Other ferro-alloys	tonnes	43 225	25 367	22 754	25 139	43 034
Silicon metal	tonnes	108 062	120 821	130 408	156 690	184 499
Ingots, blooms, billets	tonnes	1 160 168	1 306 210	1 945 817	2 331 264	2 578 298
Scrap	tonnes	3 804 881	4 364 130	5 411 710	5 026 286	5 592 745

Germany

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Kaolin	tonnes	750 621	771 902	774 307	803 001	809 329
Lead						
Ores & concentrates	tonnes	228 055	193 156	202 309	171 533	161 113
Unwrought	tonnes	158 048	159 860	112 975	108 533	134 805
Scrap	tonnes	19 472	9 075	11 757	15 419	18 141
Lithium						
Oxides	tonnes	3 198	4 405	3 699	4 209	4 260
Carbonate	tonnes	4 825	6 018	7 189	8 101	7 948
Magnesite and magnesia						
Magnesite	tonnes	19 665	7 724	4 684	6 353	13 794
Magnesia	tonnes	453 680	348 042	348 766	515 089	519 576
Manganese						
Ores & concentrates (a)	tonnes	6 629	6 917	8 034	7 645	11 327
Metal	tonnes	45 208	21 229	22 435	29 449	45 937
Mercury	kilograms	19 900	39 500	80 600	36 200	70 600
Mica						
Unmanufactured	tonnes	227	205	237	89	12
Ground	tonnes	23 488	24 993	28 784	30 820	33 101
Waste	tonnes	345	840	1 212	1 101	980
Molybdenum						
Ores & concentrates	tonnes	8 663	9 800	12 221	11 537	14 059
Metal	tonnes	2 406	1 878	3 043	2 569	3 894
Oxides	tonnes	397	545	703	725	2 049
Nickel						
Mattes, sinters etc.	tonnes	23 006	4 030	7 264	6 902	6 459
Unwrought	tonnes	84 677	72 571	72 788	87 939	70 947
Unwrought alloys	tonnes	1 625	1 933	1 646	2 182	2 908
Scrap	tonnes	11 197	10 889	11 347	11 672	15 116
Oxides	tonnes	668	563	517	502	445
Crude petroleum	tonnes	104 331 841	107 268 878	112 096 299	113 067 864	113 960 654
Phosphates	tonnes	167 297	120 231	148 082	104 335	117 711
Platinum metals						
Platinum	kilograms	34 300	44 800	39 600	58 400	46 900
Palladium	kilograms	45 000	31 600	20 700	56 000	42 000
Other platinum metals	kilograms	5 600	6 100	6 400	9 100	8 700
Waste & scrap	kilograms	4 500 100	3 837 500	3 713 700	6 574 600	9 332 700
Potash						
Chloride	tonnes	89 067	85 597	97 924	75 483	62 917
Other potassic fertilisers	tonnes	6 206	5 810	4 996	10 029	6 283
Rare earths						
Cerium compounds	tonnes	1 208	1 115	1 082	1 082	975
Other rare earth compounds	tonnes	7 811	7 810	7 776	6 961	7 024
Ferro-cerium & other pyrophoric alloys	tonnes	15	828	214	6	...
Metals	tonnes	218	358	285	402	369
Salt	tonnes	2 391 447	2 366 521	2 467 276	2 558 898	2 591 036
Sillimanite	tonnes	62 654	63 602	60 782	58 047	80 183
Silver						
Metal	kilograms	1 844 300	2 185 300	1 434 200	1 861 800	2 227 600
Sulphur and pyrites						
Pyrites	tonnes	51 479	42 170	53 264	62 686	76 343
Sulphur	tonnes	31 481	45 962	56 272	46 127	31 267
Sulphur, sublimed & precipitated	tonnes	1 121	1 448	12 782	4 389	1 363
Talc	tonnes	263 988	307 374	352 177	376 618	345 863
Tantalum and niobium						
Tantalum	tonnes	274	239	281	164	148
Tin						
Unwrought	tonnes	20 524	20 904	21 258	20 438	21 584
Unwrought alloys	tonnes	744	381	453	554	936
Scrap	tonnes	400	505	408	506	917
Titanium						
Ilmenite	tonnes	307 791	349 819	315 214	333 603	414 037
Other titanium minerals	tonnes	131 844	175 660	225 849	224 675	253 392
Titanium slag	tonnes	52 787	41 319	—	—	17 403
Metal	tonnes	10 532	10 044	14 756	15 978	18 426
Oxides	tonnes	192 414	211 539	237 464	240 554	269 812

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Tungsten						
Ores & concentrates	tonnes	129	195	389	493	512
Metal	tonnes	3 024	4 874	4 976	5 515	4 450
Carbide	tonnes	1 103	1 419	1 520	1 802	1 366
Vanadium						
Pentoxide	tonnes	538	802	648	741	1 222
Metal	tonnes	88	106	159	193	173
Zinc						
Ores & concentrates	tonnes	319 996	340 244	480 355	401 829	314 268
Unwrought	tonnes	231 495	253 892	248 654	245 794	313 034
Unwrought alloys	tonnes	77 600	100 172	83 556	76 981	83 795
Scrap	tonnes	34 083	26 647	23 997	22 480	30 028
Zirconium						
Concentrates (b)	tonnes	76 921	85 178	80 328	79 729	—
Metal	tonnes	456	632	516	503	571

Note(s):-

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

Greece

Production

Commodity	Units	2002	2003	2004	2005	2006
Bauxite	tonnes	2 492 000	2 418 000	2 396 065	2 441 443	2 162 900
Alumina	tonnes (Al ₂ O ₃ content)	490 000	496 000	514 000	511 000	510 000
Primary aluminium	tonnes	165 262	167 797	166 634	165 300	165 000
Asbestos	tonnes	—	*13 000	*4 000	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	1 056 598	1 156 642	1 030 556	1 124 795	*1 100 000
Cement clinker	tonnes	8 947 394	15 016 562	12 185 001	12 442 361	...
Cement, finished	tonnes	14 980 698	18 741 977	15 040 760	15 403 230	*16 000 000
Coal						
Lignite	tonnes	71 087 609	69 410 756	71 237 228	71 700 000	71 500 000
Feldspar	tonnes	124 100	102 800	88 274	100 586	*100 000
Gypsum	tonnes	890 148	731 785	856 606	865 216	*860 000
Crude steel	tonnes	1 835 000	1 701 000	1 967 000	2 266 000	2 416 000
Ferro-alloys						
Ferro-nickel	tonnes	96 000	90 000	91 000	96 000	89 000
Kaolin	tonnes	57 885	59 680	53 438	49 912	*50 000
Lead, mine	tonnes (metal content)	29 300	2 000	—	3 000	12 400
Lead, refined	tonnes	*6 000	*6 000	*6 000	*6 000	*6 000
Magnesite	tonnes	553 700	542 800	552 300	471 000	463 277
Nickel, mine	tonnes (metal content)	22 700	19 100	19 000	20 400	21 700
Nickel, smelter/refinery	tonnes	19 230	18 000	18 116	19 235	17 700
Perlite	tonnes	838 997	1 079 036	1 053 388	*1 100 000	*1 100 000
Crude petroleum	tonnes	207 000	162 000	132 890	100 678	...
Natural gas	million m ³	36	27	23	16	...
Salt	tonnes	126 118	192 161	187 522	198 024	*200 000
Silver, mine	kilograms (metal content)	74 800	7 000	—	6 000	25 500
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	157 000	162 000	160 000	162 000	162 000
Talc	tonnes	670	500	200	250	*250
Zinc, mine	tonnes (metal content)	35 000	3 000	—	4 000	18 000

Note(s):-

(1) Greece is believed to produce gold

(a) From petroleum refining and/or natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	18 672	12 670	108 042	43 306	48 990
Aluminium and bauxite						
Bauxite	tonnes	535 074	701 911	925 282	1 136 505	912 093
Alumina	tonnes	327 476	358 955	404 852	439 374	457 726
Alumina hydrate	tonnes	12 261	11 568	3 760	2 944	8 239
Unwrought	tonnes	56 730	58 714	61 846	60 964	64 487
Unwrought alloys	tonnes	6 142	8 880	8 597	15 017	18 804
Scrap	tonnes	12 794	10 731	13 777	15 205	19 105
Antimony						
Metal	tonnes	22	49	3	141	160
Asbestos	tonnes	29	12 576	4 256	—	...
Bentonite and fuller's earth						
Bentonite	tonnes	25 969	27 395	15 612	1 283	12 620
Fuller's earth	tonnes	43	—	8	90	122
Cement						
Cement clinkers	tonnes	400 700	742 540	257 136	304 750	356 077
Portland cement	tonnes	2 312 090	2 507 359	2 679 607	3 502 085	2 816 832
Other cement	tonnes	142 068	110 674	170 640	242 957	181 529
Chromium						
Ores & concentrates	tonnes	...	...	21	249	726

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Coal						
Briquettes	tonnes	40 046	71 510	67 701	51 752	23 465
Copper						
Unwrought, refined	tonnes	...	1 414	1 894	1 242	2 541
Unwrought alloys	tonnes	...	2 179	1 273	365	1 142
Scrap	tonnes	6 520	9 460	8 517	15 126	16 889
Diamond						
Gem, cut	carats	25 000	1 895 000	55 000	1 840 000	325 000
Feldspar	tonnes	16 764	25 176	8 515	4 755	5 258
Gold						
Metal	kilograms	509	4 714	15	3	311
Gypsum						
Crude	tonnes	44 953	112 510	106 082	88 187	116 442
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	7 976	1 742	5 528	1 044	511
Ingots, blooms, billets	tonnes	1 157	2 908	64 105	48	13 899
Scrap	tonnes	39 806	56 047	59 502	37 164	126 188
Kaolin	tonnes	884	976	131	129	472
Lead						
Unwrought	tonnes	1 712	107	...	4 017	3 292
Magnesite and magnesia						
Magnesite	tonnes	35 594	40	—	—	—
Magnesia	tonnes	94 668	65 673	130 910	140 083	125 783
Mica	tonnes	179	4 239	2 769	5 653	9 613
Nickel						
Ores & concentrates	tonnes	...	2 362	...	...	52 169
Potash						
Potassic fertilisers	tonnes	2 119	2 107	4 083	2 894	3 977
Salt	tonnes	36 450	42 976	44 664	50 390	62 896
Silver						
Metal	kilograms	71	351	3 299	152	3 325
Sulphur and pyrites						
Pyrites	tonnes	...	23	6 920	4 306	16 495
Sulphur	tonnes	44	338	3 385	138	43 773
Talc	tonnes	1 853	990	2 566	3 479	4 065
Titanium						
Oxides	tonnes	1 412	1 624	1 835	2 373	1 861
Zinc						
Ores & concentrates	tonnes	65 084	0	0	3 276	12 615
Unwrought (a)	tonnes	671	1 076	709	334	1 802
Scrap	tonnes	172	683	709	517	421

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	105 277	324 882	199 144	22 026	45 081
Aluminium and bauxite						
Bauxite	tonnes	246 155	375 275	247 358	206 870	268 899
Alumina	tonnes	952	889	905	1 049	71 073
Unwrought	tonnes	79 463	98 093	116 074	121 266	125 541
Unwrought alloys	tonnes	39 444	46 193	51 522	68 958	62 828
Scrap	tonnes	17 329	15 127	16 631	18 083	20 030
Antimony						
Ores & concentrates	tonnes	44	76	119	95	131
Metal	tonnes	40	40	46	24	...
Arsenic						
Metallic arsenic	tonnes	31	16	21	35	16
Asbestos	tonnes	1 988	91	—	...	...
Barytes	tonnes	839	791	858	996	1 065

Greece

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Bentonite and fuller's earth						
Bentonite	tonnes	3 639	14 280	8 902	22 164	14 573
Fuller's earth	tonnes	1 068	898	633	844	811
Bismuth						
Metal	tonnes	3	17	23	6	6
Cement						
Portland cement	tonnes	56 424	302	1 754	425	3 237
Other cement	tonnes	2 628	3 322	3 497	4 548	3 228
Chromium						
Ores & concentrates	tonnes	360	218	122	477	732
Coal						
Anthracite	tonnes	47 356	51 753	37 633	35 475	39 250
Other coal	tonnes	238 619	803 239	753 949	724 600	461 181
Cobalt						
Metal	tonnes	34	30	89	31	30
Copper						
Unwrought	tonnes	126 027	107 425	120 088	90 557	106 404
Unwrought alloys	tonnes	699	843	550	488	4 439
Scrap	tonnes	2 672	1 979	1 864	930	2 141
Diamond						
Unsorted	carats	£367 000	£340 000	£625 000	£597 000	£1 221 000
Gem, rough	carats	£83 000	£166 000	£145 000	£357 000	£333 000
Gem, cut	carats	£1 437 000	£1 130 000	£1 701 000	£1 893 000	£1 592 000
Industrial	carats	£220 000	£456 000	£771 000	£959 000	£887 000
Dust	carats	9 520 000	6 205 000	8 390 000	19 475 000	10 550 000
Diatomite						
	tonnes	529	556	610	645	757
Feldspar						
	tonnes	4 599	5 216	499	3 032	439
Fluorspar						
	tonnes	12 582	10 579	20 720	10 681	2 855
Gold						
Metal	kilograms	1 497	8 276	37 484	56 572	60 999
Waste & scrap	kilograms	1 126	79 288	—	...	126
Graphite						
	tonnes	75	77	127	91	83
Gypsum						
Crude	tonnes	350	362	826	801	88
Calcined	tonnes	1 501	1 361	13 614	5 270	14 233
Iodine						
	kilograms	1 000	2 593	1 673	2 247	2 153
Iron ore						
Burnt pyrites	tonnes	58 666	132	4 601	180	5 701
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 085	10 844	15 494	6 415	9 172
Ferro-manganese	tonnes	1 695	2 454	2 604	1 293	640
Ferro-silico-manganese	tonnes	24 110	19 505	23 808	31 657	31 524
Ferro-silicon	tonnes	3 990	7 353	7 899	6 339	4 694
Other ferro-alloys	tonnes	642	540	1 022	1 148	1 315
Silicon metal	tonnes	856	1 140	1 055	1 126	1 408
Ingots, blooms, billets	tonnes	148 798	211 021	229 854	90 412	120 241
Scrap	tonnes	1 179 017	1 138 900	1 178 451	1 545 912	1 517 545
Kaolin						
	tonnes	43 586	52 833	56 380	54 293	68 083
Lead						
Unwrought	tonnes	5 309	4 633	28 460	5 112	5 401
Scrap	tonnes	3 349	5 496	1 284	85	138
Magnesite and magnesia						
Magnesite	tonnes	19 308	23 470	20 579	14 250	15 645
Magnesia	tonnes	7 442	10 427	11 985	17 232	22 763
Manganese						
Ores & concentrates	tonnes	2	24 985	1	22 001	46 164
Metal	tonnes	1 289	389	1 510	905	730
Mercury						
	kilograms	291	11 617	187	954	933
Mica						
	tonnes	114	203	94	131	111
Molybdenum						
Metal	tonnes	21	1	13	2	47
Nickel						
Ores & concentrates	tonnes	...	10 480	6	29 153	6 657
Unwrought	tonnes	67	60	61	56	39

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Crude petroleum	tonnes	18 653 052	18 976 807	18 390 500	18 926 138	18 370 720
Phosphates	tonnes	338 443	336 893	364 398	378 931	197 629
Platinum metals						
Platinum & platinum metals	kilograms	449	156	179	181	248
Potash						
Sulphate	tonnes	59 315	55 208	92 816	28 334	44 049
Chloride	tonnes	32 834	36 469	29 191	46 667	36 887
Other potassic fertilisers	tonnes	3 057	5 256	6 411	4 387	9 682
Salt	tonnes	102 103	218 991	173 729	162 669	277 940
Silver						
Metal	kilograms	38 516	49 225	95 318	...	46 241
Sulphur and pyrites						
Pyrites	tonnes	...	...	...	...	31 906
Sulphur	tonnes	90 577	106 922	83 733	68 765	3 933
Talc	tonnes	4 206	5 316	10 061	9 937	10 000
Tin						
Unwrought (a)	tonnes	382	598	671	615	244
Titanium						
Titanium minerals	tonnes	816	313	563	528	440
Oxides	tonnes	17 646	22 801	27 241	25 592	25 372
Zinc						
Unwrought (a)	tonnes	26 052	24 982	29 255	20 110	19 320
Zirconium						
Concentrates	tonnes	657	651	611	629	466

Note(s):-

(a) Including alloys

Hungary

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	35 407 000	40 530 145	46 354 829	69 027 609	46 458 296
Crushed rock	tonnes	9 792 782	10 090 547	13 037 471	15 078 440	17 944 036
Bauxite	tonnes	720 000	665 904	646 726	535 337	538 258
Alumina	tonnes (Al ₂ O ₃ content)	293 700	300 000	304 000	*300 000	*300 000
Primary aluminium	tonnes	35 294	34 000	34 300	31 000	300
Bentonite and fuller's earth						
Bentonite	tonnes	3 700	87 200	9 300	4 900	6 635
Cement, finished	tonnes	3 510 000	3 573 000	3 349 000	3 371 000	3 724 000
Coal						
Bituminous	tonnes	660 000	667 126	280 000	—	—
Lignite	tonnes	7 573 971	8 564 000	8 470 258	8 153 968	8 467 000
Brown coal	tonnes	4 530 000	4 128 000	2 500 000	1 426 000	1 431 700
Diatomite	tonnes	1 656	1 770	1 640	2 190	495
Gypsum (a)	tonnes	108 000	62 000	55 000	19 000	18 000
Pig iron	tonnes	1 334 000	1 332 000	1 350 000	1 329 000	1 336 000
Crude steel	tonnes	2 138 146	2 044 526	1 944 017	2 004 250	1 992 000
Kaolin	tonnes	...	...	3 300	1 300	1 350
Manganese ore	tonnes	43 000	48 000	49 000	50 000	50 000
Perlite	tonnes	72 196	95 100	65 000	69 900	71 019
Crude petroleum	tonnes	1 049 770	1 134 245	1 076 844	947 542	880 000
Natural gas	million m ³	3 130	3 145	3 112	3 041	3 250
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	52 000	51 000	35 000	65 000	50 000

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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	743 157	598 056	729 270	736 586	961 775
Aluminium and bauxite						
Alumina	tonnes	120 174	125 433	170 664	142 470	170 030
Alumina hydrate	tonnes	121 265	90 768	80 314	75 811	90 705
Unwrought (a)	tonnes	11 730	16 231	25 475	22 635	28 884
Scrap	tonnes	24 428	27 022	38 684	41 192	34 986
Bentonite and fuller's earth						
Bentonite	tonnes	2 118	1 030	897	442	860
Cement						
Cement clinkers	tonnes	125 482	41 006	78 590	27 328	—
Portland cement	tonnes	433 217	440 285	244 276	274 262	257 050
Coal						
Lignite	tonnes	...	13 966	81 047	366 132	—
Copper						
Scrap	tonnes	17 867	27 405	31 741	34 861	27 051
Diatomite	tonnes	308	284	452	12	44
Gold						
Metal	kilograms	928	...	826	200	470
Gypsum						
Crude & calcined	tonnes	408	1 180	1 305	2 648	6 408
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	694	436	701	234	—
Ingots, blooms, billets	tonnes	87 994	32 452	24 042	24 923	14 731
Scrap	tonnes	553 847	618 827	887 069	761 464	658 499

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Kaolin	tonnes	3 539	2 388	7 180	6 252	3 781
Lead						
Scrap	tonnes	1 421	1 237	2 377	2 987	3 286
Potash						
Potassic fertilisers	tonnes	221	61	2 512	1 253	...
Salt	tonnes	629	2 987	576	49 578	45 215
Sillimanite						
Mullite	tonnes	2 728	3 869	6 108	6 922	6 870
Silver						
Metal	kilograms	962	1 300	2 516	300	395
Sulphur and pyrites						
Sulphur	tonnes	28 389	...	22 607	36 472	...
Talc	tonnes	15	314	1 533	—	—
Titanium						
Oxides	tonnes	...	163	278	126	324
Tungsten						
Metal	tonnes	74	56	64	24	49
Zinc						
Unwrought	tonnes	997	921	3 798	415	1 189
Scrap	tonnes	2 202	2 794	3 571	3 938	4 557

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	241 929	104 705	254 800	446 504	211 927
Aluminium and bauxite						
Bauxite	tonnes	116 037	164 930	189 528	279 660	243 873
Alumina	tonnes	3 188	17 819	8 751	15 638	2 558
Unwrought	tonnes	199 392	199 978	337 995	109 382	109 506
Unwrought alloys	tonnes	25 328	27 925	32 021	54 362	72 573
Scrap	tonnes	17 071	16 764	13 111	17 164	49 076
Antimony						
Oxide	tonnes	178	150	186	180	139
Asbestos	tonnes	740	574	...	...	...
Barytes	tonnes	1 878	1 704	3 453	...	...
Bentonite and fuller's earth	tonnes	4 440	5 914	5 214	2 369	4 796
Bromine	kilograms	26 838	24 921	5 636	12 000	9 300
Cement						
Cement clinkers	tonnes	...	1 924	583	9 051	65 437
Portland cement	tonnes	303 249	342 107	451 613	565 366	455 108
Other cement	tonnes	466 700	536 445	579 735	508 067	375 337
Chromium						
Ores & concentrates	tonnes	651	593	367	388	306
Metal	tonnes	65	82	68	0	289
Coal						
Hard coal (a)	tonnes	874 393	1 108 289	1 347 232	498 369	463 481
Lignite	tonnes	259 129	311 845	403 297	710 417	686 862
Briquettes	tonnes	16 259	...	12 295	14 310	15 416
Copper						
Unwrought	tonnes	18 994	14 327	11 365	3 269	2 175
Scrap	tonnes	3 483	502	512	500	516
Diamond						
Gem, cut	carats	£54 619	£867 597	£1 668 850	£848 715	£245 849
Diatomite	tonnes	1 633	1 593	1 390	1 158	1 476
Feldspar	tonnes	20 250	19 131	19 205	20 184	16 091
Fluorspar	tonnes	3 626	3 907	4 366	...	2 801
Gold						
Metal	kilograms	127	41	1 514	1 380	235
Graphite	tonnes	528	517	234	191	192

Hungary

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Gypsum						
Crude & calcined	tonnes	53 147	59 741	64 726	60 336	65 546
Iodine	kilograms	...	...	...	6 700	1 800
Iron ore	tonnes	1 718 394	1 864 033	1 063 931	1 210 543	987 544
Iron, steel and ferro-alloys						
Pig iron	tonnes	23 881	19 312	14 429	8 808	14 821
Ferro-manganese	tonnes	10 908	11 503	9 152	2 898	15 611
Ferro-silicon	tonnes	5 173	5 530	5 295	5 013	4 821
Other ferro-alloys	tonnes	6 406	4 089	4 376	5 417	4 980
Silicon metal	tonnes	3 567	4 686	5 196	2 260	4 847
Ingots, blooms, billets	tonnes	82 919	91 664	82 336	102 861	38 956
Scrap	tonnes	135 594	112 463	62 753	45 860	65 136
Kaolin	tonnes	30 130	28 472	23 417	33 075	25 282
Lead						
Unwrought	tonnes	6 552	7 148	4 545	5 028	4 063
Magnesite and magnesia	tonnes	32 296	10 463	7 003	6 251	5 435
Manganese						
Metal	tonnes	677	568	111	889	1 180
Mercury	kilograms	...	3 875	4 426	4 607	3 529
Molybdenum						
Metal	tonnes	105	121	129	129	145
Crude petroleum	tonnes	5 029 814	...	5 001 714	—	...
Phosphates	tonnes	14 730	9 140	...	4	...
Platinum metals						
Platinum & platinum metals	kilograms	140	274	168	300	...
Potash						
Potassic fertilisers	tonnes	124 330	121 815	143 465	141 013	136 944
Rare earths						
Rare earth compounds	tonnes	202	114	158	...	146
Salt	tonnes	468 704	557 050	486 695	592 522	662 455
Sillimanite	tonnes	1 370	2 045	2 396	4 519	3 001
Silver						
Metal	kilograms	15 444	17 695	33 178	15 200	900
Sulphur and pyrites						
Sulphur	tonnes	1 853	1 426	1 088	1 079	...
Sulphur, sublimed & precipitated	tonnes	134	67	296	362	326
Talc	tonnes	9 576	10 070	9 178	...	8 175
Tin						
Unwrought (b)	tonnes	219	91	155	192	384
Titanium						
Metal	tonnes	215	367	387	107	238
Oxides	tonnes	7 941	8 247	8 677	7 523	7 845
Zinc						
Unwrought (b)	tonnes	23 295	16 900	15 779	14 529	19 093
Zirconium						
Concentrates	tonnes	3 714	...	...	3 266	...

Note(s):-

(a) Including anthracite

(b) Including alloys

Irish Republic

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	34 000 000	40 000 000	*40 000 000	*40 000 000	*64 000 000
Crushed rock	tonnes	78 000 000	60 000 000	*60 000 000	*94 000 000	*96 000 000
Alumina	tonnes (Al ₂ O ₃ content)	1 400 000	1 500 000	*1 500 000	*1 800 000	1 800 000
Cement, finished	tonnes	2 500 000	2 500 000	*2 500 000	*2 500 000	*4 700 000
Gypsum	tonnes	*500 000	*600 000	*650 000	*700 000	*700 000
Lead, mine	tonnes (metal content)	41 700	50 300	63 800	72 200	61 800
Lead, refined	tonnes	6 600	7 800	19 600	22 500	21 700
Natural gas (a)	million m ³	839	673	848	570	507
Silver, mine	kilograms (metal content)	7 500	8 500	5 200	10 500	12 900
Zinc, mine	tonnes (metal content)	276 700	419 000	438 300	445 400	425 800

Note(s):-
(a) Sales

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	703 054	563 286	135 579	62 729	230 125
Aluminium and bauxite						
Alumina	tonnes	1 564 481	2 405 797	1 388 723	1 459 036	1 534 845
Alumina hydrate	tonnes	22 656	51 149	44 645	85 062	115 676
Unwrought alloys	tonnes	4 389	4 569	3 776	3 542	4 637
Scrap	tonnes	19 240	12 307	15 367	16 475	18 784
Cement						
Portland cement	tonnes	263 254	439 876	1 133 469	942 655	972 585
Coal						
Briquettes	tonnes	20 130	21 151	18 049	13 103	4 823
Cobalt						
Metal	tonnes	114	79	32	42	43
Oxides	tonnes	119	118	11	—	38
Copper						
Scrap	tonnes	9 043	17 824	16 118	13 152	15 784
Diamond						
Unsorted	carats	105 000	16 960 000	5 785 000	25 000	1 420 000
Gem, rough	carats	7 285 000	5 040 000	15 000	25 000	5 000
Industrial	carats	7 120 000	2 275 000	3 395 000	1 610 000	3 115 000
Gold						
Metal	kilograms	£389 000	£784 000	£1 076 000	£942 000	£1 400 000
Waste & scrap	kilograms	£1 623 000	£1 520 000	£1 672 000	£1 429 000	£1 313 000
Gypsum						
Crude	tonnes	817	873	919	1 022	1 054
Calcined	tonnes	22 181	33 382	40 636	42 212	40 027
Iodine	kilograms	2 000	9 600	—	1 462	—
Iron, steel and ferro-alloys						
Scrap	tonnes	228 807	292 971	347 479	352 028	398 587
Lead						
Ores & concentrates	tonnes	21 069	56 141	84 115	92 813	129 748
Magnesite and magnesia						
Magnesite	tonnes	...	52	6	...	5 991
Magnesia	tonnes	65 483	65 549	69 105	82 417	46 656
Nickel						
Scrap	tonnes	701	664	797	641	1 015
Platinum metals						
Waste & scrap	kilograms	22 983	5 544	13 100	7 900	6 523
Rare earths						
Rare earth compounds	tonnes	64	107	85	14	73
Ferro-cerium & other pyrophoric alloys	tonnes	...	362	...	...	...

Irish Republic

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Salt	tonnes	354	110	233	1 521	2 492
Tin						
Concentrates	tonnes	250	172	190	151	110
Unwrought (a)	tonnes	77	29	103	67	71
Scrap	tonnes	109	21	140	...	54
Tungsten						
Metal	tonnes	38	41	72	963	183
Zinc						
Ores & concentrates	tonnes	161 452	439 247	564 018	522 312	483 949
Scrap	tonnes	235	298	450	684	569

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 121 763	1 036 886	1 269 673	1 444 893	1 687 279
Aluminium and bauxite						
Bauxite	tonnes	3 732 789	3 418 940	3 740 006	3 606 983	3 368 967
Alumina	tonnes	7 544	6 718	6 626	4 252	7 470
Unwrought (a)	tonnes	6 750	6 503	6 603	4 092	2 756
Scrap	tonnes	503	294	490	117	18
Antimony						
Metal	tonnes	31	15	13	0	—
Arsenic						
Metallic arsenic	tonnes	127	47	...	158	125
Asbestos	tonnes	19	—	475	2 794	2 700
Barytes	tonnes	318	332	411	894	293
Bentonite and fuller's earth						
Bentonite	tonnes	966	869	2 042	2 658	953
Bismuth						
Metal	tonnes	33	54	2	6	8
Bromine	kilograms	5 739	33 238	602	...	886
Cement						
Cement clinkers	tonnes	56 199	88 669	226 116	245 955	395 053
Portland cement	tonnes	373 759	259 703	281 044	335 055	559 645
Other cement	tonnes	2 968	4 105	9 132	8 958	9 079
Chromium						
Metal	tonnes	19	27	25	40	44
Coal						
Anthracite	tonnes	163 733	164 270	100 792	60 325	68 190
Other coal	tonnes	1 337 469	1 307 994	2 930 298	2 641 074	1 908 618
Briquettes	tonnes	28 105	46 789	48 348	35 959	48 158
Cobalt						
Ore	tonnes	2	18	30	28	35
Metal	tonnes	398	282	273	390	464
Oxides	tonnes	6	3	5	13	43
Copper						
Scrap	tonnes	1 087	514	16	27	50
Diamond						
Unsorted	carats	19 505 000	22 665 000	33 525 000	39 900 000	67 655 000
Gem, rough	carats	...	8 225 000	1 815 000	3 815 000	4 140 000
Gem, cut	carats	30 805 000	23 370 000	21 175 000	36 975 000	44 635 000
Industrial	carats	95 650 000	3 930 000	26 740 000	30 680 000	70 840 000
Dust	carats	£27 972 000	£41 933 000	£29 021 000	£42 591 000	£62 772 000
Diatomite	tonnes	450	729	594	641	943
Gold						
Metal	kilograms	£6 057 000	£9 565 000	£7 480 000	£7 227 000	£7 213 000
Waste & scrap	kilograms	120	2 322	4 880	2 567	904
Graphite	tonnes	541	248	288	177	23

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Gypsum						
Crude	tonnes	10 931	373	536	1 056	2 064
Calcined	tonnes	914	2 228	6 015	20 024	22 500
Iodine	kilograms	5 000	8 712	18 215	11 921	9 705
Iron, steel and ferro-alloys						
Pig iron	tonnes	5 120	4 808	3 812	3 215	2 710
Ferro-alloys	tonnes	663	224	286	474	397
Silicon metal	tonnes	219	431	367	221	286
Ingots, blooms, billets	tonnes	1 601	1 291	1 487	1 637	7 928
Scrap	tonnes	1 420	786	1 277	1 137	3 650
Kaolin	tonnes	20 919	19 186	22 213	22 764	19 647
Lead						
Unwrought	tonnes	35 376	28 438	26 896	30 999	28 386
Scrap	tonnes	9 985	7 798	18 290	28 530	31 794
Magnesite and magnesia						
Magnesite	tonnes	1 500	15 449	25 886	12 653	1 967
Magnesia	tonnes	59 905	43 802	49 664	49 466	35 800
Manganese						
Ores & concentrates (b)	tonnes	27 456	19 306	268	285	368
Metal	tonnes	23	9	5	5	15
Mercury	kilograms	1 008	11 604	61	72	11 804
Mica	tonnes	463	364	551	889	650
Nickel						
Unwrought (a)	tonnes	1 361	1 558	1 493	1 775	1 256
Unwrought alloys	tonnes	1 271	1 529	1 456	1 769	1 251
Crude petroleum	tonnes	1 112 511	1 378 494	2 128 991	3 226 383	3 082 372
Phosphates	tonnes	9 717	440	1 159	219	154
Platinum metals						
Platinum & platinum metals	kilograms	2 342	1 829	2 620	3 865	...
Potash						
Chloride	tonnes	17 160	3 790	30 456	113 476	125 803
Other potassic fertilisers	tonnes	2 483	6 156	4 924	5 747	4 566
Rare earths						
Rare earth compounds	tonnes	44	245	74	32	7
Metals	tonnes	63	64	4	14	11
Salt	tonnes	110 654	77 992	83 789	83 746	96 164
Sillimanite	tonnes	5 795	10	89	1	...
Silver						
Metal	kilograms	2 960	2 247	2 709	2 386	...
Sulphur and pyrites						
Sulphur, sublimed & precipitated	tonnes	194	898	1 371	2 327	2 486
Talc	tonnes	2 224	2 008	2 508	2 632	1 278
Tantalum and niobium						
Tantalum	tonnes	2	2	2	8	2
Tin						
Unwrought (a)	tonnes	271	171	462	307	211
Titanium						
Metal	tonnes	102	107	151	290	350
Oxides	tonnes	5 070	5 095	5 685	5 059	4 703
Tungsten						
Metal	tonnes	152	331	177	292	173
Zinc						
Unwrought (a)	tonnes	5 699	4 241	2 956	3 629	7 010

Note(s):-

(a) Including alloys

(b) Including manganiferous iron ore

Italy

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel (a)	tonnes	200 776 836	212 169 204	200 836 237	206 149 140	177 625 321
Crushed rock (a)	tonnes	46 512 344	44 562 447	59 377 657	61 639 848	70 887 571
Alumina	tonnes (Al ₂ O ₃ content)	1 010 000	1 021 000	1 064 000	1 070 000	1 090 000
Primary aluminium	tonnes	190 400	191 400	195 400	192 900	194 200
Barytes	tonnes	10 215	12 214	12 258	7 312	*7 000
Bentonite and fuller's earth						
Bentonite	tonnes	463 231	474 475	371 255	341 049	...
Fuller's earth	tonnes	24 595	250	300	...	...
Bromine	kilograms	*300 000	*300 000	*300 000	*300 000	*300 000
Cadmium	tonnes	362	22	—	—	—
Cement clinker	tonnes	30 770 167	32 077 055	33 048 546	...	...
Cement, finished	tonnes	41 722 254	43 580 047	45 342 868	46 400 000	47 400 000
Coal						
Lignite	tonnes	100 000	...	...	...	...
Copper, refined	tonnes	32 400	26 700	33 600	32 200	36 400
Feldspar	tonnes	*2 500 000	*2 200 000	2 201 258	1 801 846	*1 800 000
Fluorspar	tonnes	53 260	26 387	24 339	70 326	...
Gold, mine	kilograms (metal content)	631	*100	—	—	—
Gypsum	tonnes	1 531 477	1 783 903	1 615 287	*1 600 000	*1 600 000
Pig iron	tonnes	9 746 000	10 123 000	10 566 000	11 392 000	11 479 000
Crude steel	tonnes	26 302 000	27 058 000	28 603 000	29 349 000	31 624 000
Ferro-alloys						
Ferro-manganese	tonnes	*40 000	25 000	38 000	32 000	13 000
Ferro-silico-manganese	tonnes	*100 000	*100 000	*100 000	*100 000	96 600
Kaolin	tonnes	174 990	224 755	246 608	183 804	...
Lead, mine	tonnes (metal content)	3 200	2 700	800	*800	*800
Lead, refined	tonnes	196 000	214 100	201 600	211 000	190 500
Manganese ore	tonnes	867	763	714	632	...
Perlite	tonnes	*60 000	*60 000	*60 000	*60 000	*60 000
Crude petroleum	tonnes	5 531 000	5 570 000	5 445 000	6 100 000	5 800 000
Natural gas	million m ³	14 623	13 885	12 961	11 977	11 000
Salt						
Rock salt & Brine salt	tonnes	3 342 992	2 922 251	2 876 469	2 988 051	*3 000 000
Silver, mine	kilograms (metal content)	*1 000	200	100	100	100
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	142 000	127 000	113 000	92 000	87 000
Recovered (c)	tonnes (sulphur content)	560 000	565 000	575 000	650 000	680 000
Talc	tonnes	*80 000	*80 000	88 671	99 570	*100 000
Slab zinc	tonnes	175 800	123 100	118 400	121 200	109 200

Note(s):-

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

(a) Sales

(b) From metal sulphide processing

(c) From petroleum refining and/or natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 638 314	1 333 675	1 556 414	1 734 620	1 720 142
Aluminium and bauxite						
Bauxite	tonnes	49 307	9 291	40 512	121 029	12 082
Alumina	tonnes	721 558	682 587	606 416	651 704	748 594
Alumina hydrate	tonnes	35 623	34 820	24 895	26 652	26 668
Unwrought	tonnes	5 986	3 385	4 203	8 742	20 315
Unwrought alloys	tonnes	35 982	31 082	43 578	57 573	73 137
Scrap	tonnes	17 707	20 358	26 630	35 904	50 024

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Antimony						
Ores & concentrates	tonnes	3	7	100	274	250
Metal	tonnes	70	1	3	10	3
Oxide	tonnes	504	340	207	94	254
Arsenic						
Metallic arsenic	tonnes	—	—	—	16	2
Asbestos	tonnes	...	...	...	20	5
Barytes	tonnes	2 076	224	1 951	505	1 000
Bentonite and fuller's earth						
Bentonite	tonnes	215 834	221 353	257 596	245 515	272 438
Bromine	kilograms	2 259	1 296	505	1 000	...
Cadmium						
Metal	tonnes	377	239	54	18	1
Cement						
Cement clinkers	tonnes	82 835	55 289	8 965	19 427	61 437
Portland cement	tonnes	1 940 114	1 816 975	1 903 368	2 379 941	2 091 427
Other cement	tonnes	174 484	181 086	130 920	130 120	660 595
Chromium						
Ores & concentrates	tonnes	3 014	2 638	3 803	4 673	5 446
Metal	tonnes	407	1 993	4 184	1 070	111
Coal						
Hard coal (a)	tonnes	33 141	17 124	92 227	66 115	38 239
Cobalt						
Metal	tonnes	98	174	236	97	224
Oxides	tonnes	49	63	123	63	77
Copper						
Matte & cement	tonnes	5 982	561	366	107	1 511
Unwrought	tonnes	7 528	13 371	22 988	6 387	13 567
Unwrought alloys	tonnes	12 631	12 110	16 772	14 128	14 620
Scrap	tonnes	46 184	53 184	97 964	110 711	102 463
Diamond						
Gem, cut	carats	£15 982 000	£21 938 000	£26 708 000	£30 464 000	£63 360 000
Industrial	carats	£607 000	£228 000	£565 000	£666 000	£489 000
Dust	carats	104 155 000	42 170 000	49 130 000	48 455 000	30 250 000
Diatomite	tonnes	1 194	1 217	1 745	1 138	1 110
Feldspar	tonnes	159 403	165 128	204 096	302 715	238 555
Fluorspar	tonnes	31 142	28 222	20 607	28 699	16 710
Gold						
Metal	kilograms	32 091	36 047	44 180	60 480	55 847
Graphite	tonnes	313	222	625	274	442
Gypsum						
Crude	tonnes	24 560	1 032	8 040	12 641	141
Calcined	tonnes	54 393	38 778	42 223	41 404	69 272
Iodine	kilograms	3 000	2 065	3 080	14 499	7 067
Iron ore						
Burnt pyrites	tonnes	46 294	30 848	11 086	9 410	4 407
Iron, steel and ferro-alloys						
Pig iron	tonnes	58 982	40 069	41 068	15 740	22 114
Sponge & powder	tonnes	651	130	62	163	194
Ferro-chrome	tonnes	9 576	7 290	8 411	3 753	8 276
Ferro-silico-magnesium	tonnes	2 119	1 673	3 163	30	93
Ferro-manganese	tonnes	5 382	6 322	8 857	10 380	8 670
Ferro-silico-manganese	tonnes	2 055	1 392	3 167	3 511	4 086
Ferro-molybdenum	tonnes	351	352	162	90	174
Ferro-nickel	tonnes	...	...	...	3 967	173
Ferro-silicon	tonnes	2 697	3 287	3 594	5 035	4 457
Ferro-vanadium	tonnes	2 873	817	63	3	11
Other ferro-alloys	tonnes	975	488	2 859	1 023	2 068
Silicon metal	tonnes	1 092	583	1 667	3 931	3 304
Ingots, blooms, billets	tonnes	786 800	546 474	402 967	698 402	958 626
Scrap	tonnes	153 190	173 616	211 385	185 688	190 139
Kaolin	tonnes	47 652	37 357	29 995	40 800	17 287
Lead						
Unwrought	tonnes	20 987	26 711	28 295	18 244	8 143
Scrap	tonnes	4 792	5 652	1 262	2 477	3 806

Italy

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Lithium						
Oxides	tonnes	58	47	11	6	6
Carbonate	tonnes	138	162	206	269	347
Magnesite and magnesia						
Magnesite	tonnes	3 170	2 141	2 868	3 489	3 003
Magnesia	tonnes	52 206	17 414	9 779	12 130	12 174
Manganese						
Metal	tonnes	120	37	113	241	298
Mercury	kilograms	274 624	20 153	6 952	18 244	14 820
Mica	tonnes	667	371	623	738	1 159
Molybdenum						
Metal	tonnes	57	250	171	132	639
Nickel						
Unwrought (b)	tonnes	2 701	2 923	1 637	1 720	799
Scrap	tonnes	552	351	644	1 923	448
Crude petroleum	tonnes	871 391	802 524	824 206	986 121	937 813
Phosphates	tonnes	513	475	4 417	4 883	6 789
Platinum metals						
Platinum	kilograms	3 546	10 430	6 277	6 555	9 542
Platinum metals	kilograms	13 337	8 310	4 207	6 458	51 628
Waste & scrap	kilograms	61 441	96 968	105 220	206	1 065
Potash						
Potassic fertilisers	tonnes	1 502	2 415	1 169	1 270	2 194
Rare earths						
Rare earth compounds	tonnes	26	39	20	13	43
Metals	tonnes	19	15	81	168	56
Salt	tonnes	326 123	325 395	289 415	317 124	361 602
Silver						
Metal	kilograms	442 900	677 683	616 861	564 308	516 281
Sulphur and pyrites						
Pyrites	tonnes	9 547	8 185	7 384	4 763	8 646
Sulphur, crude	tonnes	...	14 358	8 785	41 534	...
Sulphur, refined	tonnes	(c) 155 173	136 717	156 833	183 869	(c) 253 472
Sulphur, sublimed & precipitated	tonnes	251	5 693	930	2 159	36 881
Talc	tonnes	108 467	116 739	118 131	120 920	122 148
Tantalum and niobium						
Tantalum	tonnes	50	1	2	1	0
Tin						
Unwrought (b)	tonnes	497	458	406	503	437
Scrap	tonnes	191	201	180	17	269
Titanium						
Titanium slag	tonnes	...	...	...	1 499	...
Metal	tonnes	3 727	3 159	4 439	4 130	4 101
Oxides	tonnes	28 434	28 323	28 476	25 433	22 473
Tungsten						
Metal	tonnes	129	191	357	233	197
Vanadium						
Ores & concentrates	tonnes	2 401	1 691	1 267	1 092	1 291
Zinc						
Ores & concentrates	tonnes	21 429	61 273	93 317	96 439	114 339
Unwrought	tonnes	2 250	2 761	2 331	9 230	37 659
Unwrought alloys	tonnes	6 520	6 914	3 523	2 854	7 792
Scrap	tonnes	12 762	17 313	15 157	13 652	12 934
Zirconium						
Concentrates	tonnes	20 510	22 050	25 633	21 760	23 472
Metal	tonnes	775	424	441	455	260

Note(s):-

(a) Including anthracite

(b) Including alloys

(c) Including crude

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	3 324 865	3 368 905	4 102 477	4 331 596	4 655 740
Aluminium and bauxite						
Bauxite	tonnes	2 256 065	2 169 206	2 407 108	2 602 224	2 618 296
Alumina	tonnes	126 299	123 514	142 931	147 537	137 469
Alumina hydrate	tonnes	134 724	128 280	151 086	155 718	156 231
Unwrought	tonnes	381 046	425 165	434 802	426 721	481 919
Unwrought alloys	tonnes	400 139	446 358	468 500	463 411	504 142
Scrap	tonnes	300 058	327 721	346 736	326 901	366 623
Antimony						
Ores & concentrates	tonnes	727	786	879	1 005	829
Metal	tonnes	1 551	1 377	743	164	279
Oxide	tonnes	5 037	4 314	5 528	5 543	6 061
Arsenic						
Metallic arsenic	tonnes	91	111	84	54	52
Barytes	tonnes	79 605	87 501	86 874	84 178	84 398
Bentonite and fuller's earth						
Bentonite	tonnes	103 545	139 576	153 410	138 973	121 697
Fuller's earth	tonnes	12 954	10 982	5 760	7 893	8 208
Bismuth						
Metal	tonnes	301	151	175	203	251
Bromine	kilograms	104 414	139 908	355 734	281 000	522 069
Cadmium						
Metal	tonnes	46	48	87	72	30
Oxide	tonnes	95	62	96	55	...
Cement						
Cement clinkers	tonnes	1 777 159	2 322 710	2 720 499	2 828 906	2 872 114
Portland cement	tonnes	1 796 508	2 033 657	2 130 079	2 014 905	1 564 049
Other cement	tonnes	304 329	168 008	146 033	152 325	184 862
Chromium						
Ores & concentrates	tonnes	56 835	26 802	30 872	39 999	41 992
Metal	tonnes	544	520	677	958	830
Coal						
Anthracite	tonnes	193 308	243 578	338 706	369 840	282 831
Other coal	tonnes	19 682 422	21 029 014	25 382 339	24 714 768	24 860 362
Briquettes	tonnes	11 702	10 270	9 374	9 136	10 207
Cobalt						
Ore	tonnes	41	495	122	5	11
Metal	tonnes	649	449	440	468	587
Oxides	tonnes	1 256	966	1 004	1 128	1 161
Copper						
Unwrought, unrefined	tonnes	636	310	216	955	323
Unwrought, refined	tonnes	643 386	650 757	700 101	652 089	774 140
Unwrought alloys	tonnes	19 779	21 862	16 723	8 053	15 174
Scrap	tonnes	188 238	164 700	128 501	124 737	214 289
Diamond						
Unsorted	carats	£1 680 000	£1 138 000	£1 655 000	£2 576 000	£2 083 000
Gem, rough	carats	£1 425 000	£1 241 000	£928 000	£1 591 000	£1 537 000
Gem, cut	carats	£176 777 000	£180 528 000	£210 629 000	£235 326 000	£284 772 000
Industrial	carats	£6 699 000	£4 647 000	£5 949 000	£5 236 000	£7 903 000
Dust	carats	147 020 000	117 845 000	135 820 000	142 000 000	152 680 000
Diatomite	tonnes	8 990	10 429	14 744	9 141	5 179
Feldspar	tonnes	1 871 798	2 291 993	2 693 951	2 623 428	2 603 981
Fluorspar	tonnes	162 510	226 780	212 975	249 756	237 597
Gold						
Metal	kilograms	358 654	281 157	274 841	250 938	204 012
Waste & scrap	kilograms	7 584	1 685	3 612	904	810
Graphite	tonnes	11 302	10 845	10 699	11 102	11 548
Gypsum						
Crude	tonnes	2 391	1 947	5 024	6 134	5 285
Calcined	tonnes	22 706	17 681	22 515	22 076	20 028
Iodine	kilograms	1 218 000	1 167 573	1 127 906	854 831	1 033 737
Iron ore						
Iron ore	tonnes	9 283 941	8 842 872	10 578 006	11 244 293	17 844 641
Burnt pyrites	tonnes	5 614 311	6 445 903	6 136 765	6 307 527	...

Italy

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 121 250	1 209 778	1 304 367	1 729 086	1 791 165
Sponge & powder	tonnes	289 728	316 524	206 956	424 810	468 825
Ferro-chrome	tonnes	378 402	368 649	400 159	428 716	464 364
Ferro-silico-chrome	tonnes	189	30	5	32	28
Ferro-silico-magnesium	tonnes	7 651	6 601	7 826	5 409	6 809
Ferro-manganese	tonnes	77 121	69 901	79 827	84 920	95 010
Ferro-silico-manganese	tonnes	151 140	150 805	182 945	174 391	216 632
Ferro-molybdenum	tonnes	3 866	4 954	7 289	7 294	7 469
Ferro-nickel	tonnes	60 680	59 367	82 107	141 603	129 870
Ferro-niobium	tonnes	1 523	1 408	1 403	2 457	2 194
Ferro-phosphorus	tonnes	1 021	662	830	987	547
Ferro-silicon	tonnes	114 779	130 582	119 820	141 789	147 121
Ferro-titanium & ferro-silico-titanium	tonnes	2 462	3 065	3 379	3 978	3 922
Ferro-tungsten & ferro-silico-tungsten	tonnes	108	123	229	208	307
Ferro-vanadium	tonnes	2 180	1 759	1 890	1 945	1 839
Other ferro-alloys	tonnes	17 338	15 096	17 062	17 384	17 055
Silicon metal	tonnes	37 799	48 298	46 108	49 129	51 696
Ingots, blooms, billets	tonnes	2 138 491	2 510 222	3 874 346	4 310 404	5 792 203
Scrap	tonnes	4 045 986	4 380 744	5 606 124	5 367 259	5 668 405
Kaolin	tonnes	952 526	947 116	939 832	956 948	978 378
Lead						
Ores & concentrates	tonnes	98 430	86 985	99 015	107 685	65 610
Unwrought	tonnes	111 214	88 333	114 546	72 181	112 069
Scrap	tonnes	4 737	3 669	3 877	3 333	4 097
Lithium						
Oxides	tonnes	209	237	148	223	159
Carbonate	tonnes	1 581	1 686	1 505	2 263	1 646
Magnesite and magnesia						
Magnesite	tonnes	18 687	17 326	9 429	23 536	10 862
Magnesia	tonnes	120 820	129 672	163 273	161 432	174 000
Manganese						
Ores & concentrates (a)	tonnes	111 716	100 796	206 249	76 278	72 465
Metal	tonnes	4 723	3 673	4 970	8 494	35 391
Mercury	kilograms	15 389	27 140	135 119	32 471	49 335
Mica						
Unmanufactured	tonnes	52	106	65	118	158
Ground	tonnes	2 586	2 759	3 473	3 405	3 657
Molybdenum						
Ores & concentrates	tonnes	4 097	4 119	4 719	5 109	5 552
Metal	tonnes	163	122	105	203	189
Oxides	tonnes	141	172	247	117	229
Nickel						
Mattes, sinters etc.	tonnes	515	306	353	32	1 550
Unwrought	tonnes	49 803	51 276	41 944	37 708	48 178
Unwrought alloys	tonnes	1 577	1 211	2 664	1 455	3 918
Scrap	tonnes	559	2 248	3 075	5 119	1 606
Oxides	tonnes	133	127	101	56	40
Crude petroleum	tonnes	81 043 087	84 724 010	87 208 954	89 007 151	86 807 240
Phosphates	tonnes	278 389	296 497	359 090	279 693	242 633
Platinum metals						
Platinum	kilograms	17 518	10 551	12 087	15 586	17 279
Platinum metals	kilograms	26 602	20 085	21 430	19 183	19 020
Waste & scrap	kilograms	5	39	278	20 085	431
Potash						
Sulphate	tonnes	84 724	102 855	96 904	96 415	91 061
Chloride	tonnes	445 906	422 469	392 833	334 324	302 115
Other potassic fertilisers	tonnes	21 604	16 491	29 902	13 203	17 583
Rare earths						
Rare earth compounds	tonnes	637	656	932	987	853
Ferro-cerium & other pyrophoric alloys	tonnes	23	1	1	17	...
Metals	tonnes	4	102	108	38	58
Salt	tonnes	685 681	745 388	833 790	773 507	863 836
Sillimanite	tonnes	18 193	14 669	15 132	27 476	26 304

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Silver						
Metal	kilograms	1 705 431	1 724 000	1 776 385	1 635 765	1 583 508
Sulphur and pyrites						
Pyrites	tonnes	15 021	12 067	8 929	15 548	17 741
Sulphur, crude	tonnes	53 623	11 975	8 646	3 150	(b) 11 691
Sulphur, refined	tonnes	8 330	8 478	10 279	10 497	...
Sulphur, sublimed & precipitated	tonnes	820	483	281	328	375
Talc	tonnes	117 688	127 855	126 745	125 913	129 218
Tin						
Concentrates	tonnes	2	—	241	24	572
Unwrought	tonnes	6 507	6 201	5 610	5 899	5 526
Unwrought alloys	tonnes	190	105	95	135	392
Titanium						
Titanium minerals	tonnes	99 830	123 862	88 361	85 607	185 121
Metal	tonnes	5 052	4 738	6 580	5 186	6 248
Oxides	tonnes	157 476	149 238	158 592	154 950	161 253
Tungsten						
Metal	tonnes	236	258	321	257	236
Carbide	tonnes	324	318	299	337	365
Vanadium						
Pentoxide	tonnes	153	129	134	156	209
Zinc						
Ores & concentrates	tonnes	283 804	191 369	249 978	219 491	175 253
Unwrought	tonnes	201 905	226 245	273 146	261 192	229 040
Unwrought alloys	tonnes	31 361	28 659	35 835	34 929	42 768
Scrap	tonnes	15 509	14 095	15 991	14 172	18 541
Zirconium						
Concentrates	tonnes	136 504	130 207	149 787	147 435	143 672
Metal	tonnes	85	823	122	120	128

Note(s):-

(a) Including manganiferous Iron ore

(b) Including refined

Latvia

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	2 534 837	3 577 604	4 946 204	6 059 487	5 202 061
Crushed rock	tonnes	...	...	414 305	586 607	582 081
Cement clinker	tonnes	*200 000	*200 000	250 000	...	...
Cement, finished	tonnes	260 397	295 205	283 645	280 000	*280 000
Gypsum (a)	tonnes	217 074	159 133	225 742	*220 000	*230 000
Crude steel	tonnes	507 000	546 000	550 000	550 000	550 000

Note(s):-

(a) Including anhydrite

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	118 698	12 108	10 278	13 178	11 618
Aluminium and bauxite						
Unwrought alloys	tonnes	37 243	34 081	39 368	34 697	18 180
Scrap	tonnes	1 477	747	748	910	1 767
Cement						
Portland cement	tonnes	42 492	42 644	26 144	10 762	5 528
Copper						
Scrap	tonnes	7 775	6 329	7 153	9 207	7 116
Gypsum	tonnes	55 225	58 186	24 782	48 896	109 404
Iodine	kilograms	...	...	...	...	7 000
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	11 000	20	19	...	—
Scrap	tonnes	6 328	6 415	64 936	217 361	313 455
Nickel						
Scrap	tonnes	1 004	853	170	538	116
Crude petroleum	tonnes	10 477	10 162	19 892	6 085	12 099
Platinum metals						
Waste & scrap	kilograms	407	567	716	1 002	0
Salt	tonnes	668	411	5 169	10 205	14 485
Tin						
Scrap	tonnes	...	...	...	20	307
Tungsten						
Metal	tonnes	42	84	32	4	3
Zinc						
Scrap	tonnes	312	348	504	629	750

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	623 854	676 383	629 613	1 320 287	1 412 127
Aluminium and bauxite						
Unwrought (a)	tonnes	2 052	4 940	6 100	1 810	577
Scrap	tonnes	24 125	22 149	27 340	16 970	6 505
Asbestos	tonnes	...	...	34	4	28
Bentonite and fuller's earth						
Bentonite	tonnes	1 087	1 710	1 917	1 629	1 544
Cement						
Cement clinkers	tonnes	...	...	...	38 589	43 774
Portland cement	tonnes	112 025	138 488	204 353	234 862	322 187

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Coal						
Hard coal (b)	tonnes	101 680	123 844	94 896	115 720	159 787
Diatomite	tonnes	236	392	592	389	467
Fluorspar	tonnes	216	242	240	216	204
Gypsum						
Crude & calcined	tonnes	3 138	3 232	2 931	3 563	9 960
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 351	79 359	75 448	54 639	57 696
Ferro-alloys	tonnes	8 980	10 920	16 240	12 222	11 877
Silicon metal	tonnes	2 572	5 638	2 220	1 711	1 409
Ingots, blooms, billets	tonnes	99 588	172 092	195 467	206 550	145 037
Scrap	tonnes	160 459	174 272	171 941	161 538	266 616
Kaolin	tonnes	4 933	4 962	5 096	5 016	5 422
Magnesite and magnesia	tonnes	3 021	3 518	5 297	3 344	4 092
Potash						
Potassic fertilisers	tonnes	17 241	22 764	26 368	21 343	15 230
Salt	tonnes	100 542	100 459	122 251	139 662	149 696
Titanium						
Oxides	tonnes	1 132	2 032	1 232	726	833
Zinc						
Unwrought (a)	tonnes	753	895	1 172	654	901

Note(s):-

(a) Including alloys

(b) Including anthracite

Lithuania

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	5 770 428	4 793 670	5 835 729	7 034 402	7 633 311
Crushed rock	tonnes	2 145 727	2 896 045	3 683 266	4 757 023	5 259 535
Cement, finished	tonnes	605 784	596 857	753 069	832 076	1 065 367
Crude petroleum	tonnes	433 700	382 400	301 874	216 634	180 894
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	49 824	48 515	67 094	74 276	61 135

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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	255 405	228 171	460 569	957 488	871 522
Aluminium and bauxite						
Unwrought alloys	tonnes	4 083	5 222	3 943	3 922	3 410
Scrap	tonnes	24 276	15 140	11 953	7 210	5 640
Cement						
Portland cement	tonnes	224 544	212 730	247 918	299 782	246 350
Chromium						
Ores & concentrates	tonnes	...	...	...	948	2 213
Copper						
Scrap	tonnes	9 719	8 383	7 611	5 821	5 020
Gold						
Waste & scrap	kilograms	20	100	...	...	0
Iodine	kilograms	1 832	827	7 502	33	4 800
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	...	...	...	13 293	17 952
Scrap	tonnes	704 948	618 231	677 727	599 084	681 692
Lead						
Scrap	tonnes	931	3 239	6 613	7 848	6 118
Nickel						
Scrap	tonnes	759	996	770	411	674
Crude petroleum	tonnes	134 180	273 187	197 709	148 031	115 075
Phosphates	tonnes	...	...	...	150	1 406
Platinum metals						
Waste & scrap	kilograms	2 982	7 980	6 019	...	0
Potash						
Potassic fertilisers	tonnes	7 705	7 128	8 037	10 463	8 939
Salt	tonnes	2 887	3 377	5 457	5 895	7 150
Sulphur and pyrites						
Sulphur	tonnes	14 094	16 724	13 960	3 851	1
Zinc						
Scrap	tonnes	1 056	878	691	685	976

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 096 672	993 051	1 069 921	1 289 117	1 214 058
Aluminium and bauxite						
Alumina	tonnes	9 431	6 673	10 388	13 079	11 176
Scrap	tonnes	7 907	4 435	1 131	1 841	1 964
Bentonite and fuller's earth						
Bentonite	tonnes	1 679	2 607	2 472	2 675	2 838
Cement						
Cement clinkers	tonnes	14 459	...	22 496	766	416
Portland cement	tonnes	128 201	206 317	183 712	265 103	209 400
Coal						
Hard coal (a)	tonnes	222 485	294 938	260 684	290 058	391 032
Diatomite	tonnes	503	1 499	917	520	504
Feldspar	tonnes	3 259	3 380	7 461	4 166	1 933
Gold						
Waste & scrap	kilograms	...	...	(b) *16 000	114 600	12 500
Gypsum						
Crude	tonnes	36 355	1 495	39 653	58 859	71 649
Calcined	tonnes	11 630	45 996	16 245	20 990	36 588
Iodine	kilograms	1 376	1 050	1 796	6 929	500
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	...	401	568	11 411	14 417
Ingots, blooms, billets	tonnes	...	971	2 351	4 279	5 260
Scrap	tonnes	96 950	30 508	82 325	74 816	103 878
Kaolin	tonnes	...	577	701	802	1 399
Magnesite and magnesia						
Magnesia	tonnes	...	5 229	5 448	5 398	5 513
Manganese						
Metal	tonnes	15 375	136	...	...	...
Mica	tonnes	...	138	137	124	122
Crude petroleum	tonnes	6 219 137	7 075 694	8 375 777	9 746 806	7 994 367
Phosphates	tonnes	899 042	1 079 502	1 082 901	1 178 816	1 193 093
Platinum metals						
Waste & scrap	kilograms	...	...	...	5 400	26 700
Potash						
Chloride	tonnes	141 946	160 334	172 622	123 782	143 499
Other potassic fertilisers	tonnes	6 767	7 384	12 978	12 086	16 639
Rare earths						
Rare earth compounds	tonnes	...	...	80	34	52
Salt	tonnes	166 252	187 050	204 839	198 994	197 262
Silver						
Metal	kilograms	3 058	1 771	5 885	3 943	4 500
Sulphur and pyrites						
Sulphur	tonnes	269 602	316 359	255 917	306 635	320 658
Sulphur, sublimed & precipitated	tonnes	...	...	...	...	607
Talc	tonnes	...	64	87	402	463
Tantalum and niobium						
Tantalum	tonnes	...	7	12	10	11
Titanium						
Oxides	tonnes	...	648	713	926	975

Note(s):-

(a) Including anthracite

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

Macedonia

Production

Commodity	Units	2002	2003	2004	2005	2006
Bentonite and fuller's earth						
Bentonite	tonnes	17 420	6 013	16 373	14 958	20 353
Cadmium	tonnes	111	75	—	—	—
Coal						
Lignite	tonnes	7 443 360	7 200 793	7 129 535	6 879 726	6 650 182
Copper, mine	tonnes (metal content)	4 739	618	—	4 799	7 054
Feldspar	tonnes	22 800	25 640	22 921	27 076	38 124
Gypsum	tonnes	129 266	150 618	165 416	190 232	267 760
Crude steel	tonnes	261 398	306 635	319 873	321 170	326 484
Ferro-alloys						
Ferro-nickel	tonnes	5 135	5 629	5 313	8 141	10 942
Ferro-silicon	tonnes	—	49 905	66 769	71 249	59 023
Lead, mine	tonnes (metal content)	3 528	—	—	—	15 582
Lead, refined	tonnes	11 934	6 357	3 591	—	—
Silver, mine	kilograms (metal content)	36 832	22 195	—	—	*10 000
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	26 000	7 000	—	—	—
Talc	tonnes	4 662	3 271	4 350	1 955	1 025
Zinc, mine	tonnes (metal content)	2 133	—	—	—	21 672
Slab zinc	tonnes	48 599	23 746	—	—	—

Note(s):-

(a) From metal sulphide processing

Exports

Commodity	Units	2002	2003	2004	2005	2006
Aluminium and bauxite						
Scrap	tonnes	626	840	1 107	2 105	2 788
Bentonite and fuller's earth						
Bentonite	tonnes	8 950	5 698	3 973	4 346	4 747
Cadmium						
Metal	tonnes	223	818	500	...	...
Cement						
Cement clinkers	tonnes	179 321	16 356	16 762	129 570	151 663
Portland cement	tonnes	115 937	177 801	189 166	207 457	220 588
Copper						
Ores & concentrates	tonnes	23 405	3 723	648	21 441	31 547
Scrap	tonnes	701	1 065	1 413	1 926	3 190
Feldspar	tonnes	22 407	24 059	18 661	22 369	36 539
Gypsum						
Crude & calcined	tonnes	20 234	22 609	15 408	9 779	9 488
Iron, steel and ferro-alloys						
Ferro-silico-manganese	tonnes	6	53	138	1 673	6 682
Ferro-nickel	tonnes	15 162	17 304	16 260	34 419	45 058
Ferro-silicon	tonnes	716	44 583	67 929	74 450	62 794
Scrap	tonnes	5 922	26 935	61 690	85 745	98 763
Lead						
Ores & concentrates	tonnes	8 707	4 172	...	233	16 371
Unwrought	tonnes	12 432	7 458	1 135	54	...
Scrap	tonnes	47	370	1 468	935	2 511
Manganese						
Ores & concentrates	tonnes	...	71 052	...	...	5 117
Phosphates	tonnes	1 675	3 086	3 104	3 388	1 944
Salt	tonnes	833	1 339	1 329	2 677	4 508
Silver						
Metal	kilograms	26 129	24 329	64	500	...
Talc	tonnes	589	720	664	789	735

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Zinc						
Ores & concentrates	tonnes	19 983	...	...	3 306	23 106
Unwrought (a)	tonnes	54 372	27 083	745	124	30

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Aluminium and bauxite						
Unwrought (a)	tonnes	759	528	1 753	1 610	2 941
Cement						
Portland cement	tonnes	41 859	60 849	81 250	59 679	44 542
Coal						
Hard coal	tonnes	6 031	64 851	53 495	98 024	179 193
Briquettes	tonnes	112 612	198 246	190 519	188 634	103 508
Fluorspar	tonnes	150	207	172	92	218
Gypsum						
Crude & calcined	tonnes	784	495	819	1 165	1 106
Iron, steel and ferro-alloys						
Pig iron	tonnes	983	1 130	1 484	1 970	3 781
Ferro-alloys	tonnes	3 597	2 842	4 907	2 786	2 860
Ingots, blooms, billets	tonnes	5 210	...	137 447	226 286	359 029
Scrap	tonnes	23 542	61 164	129 487	264 067	277 360
Kaolin	tonnes	7 696	6 240	6 966	19 414	9 797
Lead						
Unwrought	tonnes	168	411	1 150	1 146	857
Magnesite and magnesia						
Magnesia	tonnes	1 559	1 436	1 288	1 384	5 005
Manganese						
Ores & concentrates	tonnes	...	...	...	28 977	44 040
Nickel						
Ores & concentrates	tonnes	0	42 306	65 162	236 025	466 623
Crude petroleum	tonnes	538 562	880 062	781 438	950 742	1 081 738
Phosphates	tonnes	79 103	37 599	6 567	...	...
Potash						
Potassic fertilisers	tonnes	10 076	4 089	5 736	362	995
Salt	tonnes	35 497	37 383	34 790	39 178	40 184
Silver						
Metal	kilograms	3 509	2 986	3 725	3 813	3 901
Titanium						
Oxides	tonnes	390	408	430	466	471
Zinc						
Unwrought (a)	tonnes	932	568	5 025	3 750	15 658

Note(s):-

(a) Including alloys

Malta

Malta

Exports

Commodity	Units	2002	2003	2004	2005	2006
Asbestos	tonnes	...	...	...	65	16
Diamond						
Gem, cut	carats	...	£77 487	£411 702	£155 074	£739 693
Iron, steel and ferro-alloys						
Scrap	tonnes	20 322	23 093	12 424	5 252	19 012

Imports

Commodity	Units	2002	2003	2004	2005	2006
Cement						
Portland cement	tonnes	275 627	275 736	179 533	334 107	389 690
Gold						
Metal	kilograms	3 835	3 927	3 607	14 001	7 900
Gypsum						
Crude & calcined	tonnes	1 936	3 180	5 310	5 980	7 529
Salt	tonnes	1 846	4 034	3 863	5 453	1 629
Talc	tonnes	146	170	315	302	271

Netherlands

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	81 490 000	74 200 000	66 200 000	63 579 000	72 200 000
Primary aluminium	tonnes	284 364	282 800	330 000	333 820	285 317
Cadmium	tonnes	485	495	572	*570	*560
Cement clinker	tonnes	900 000	800 000	825 000	...	...
Cement, finished	tonnes	3 080 000	2 450 000	2 380 000	*2 400 000	...
Pig iron	tonnes	5 367 000	5 846 000	6 011 000	6 031 000	5 417 000
Crude steel	tonnes	6 117 000	6 561 000	6 848 000	6 919 000	6 372 000
Lead, refined	tonnes	18 000	17 000	17 000	17 000	16 000
Magnesite (a)	tonnes	226 000	261 194	245 495	285 336	293 006
Crude petroleum	tonnes	3 073 924	3 076 398	2 890 979	2 268 746	2 022 475
Natural gas	million m ³	71 786	69 114	81 499	74 460	73 300
Salt	tonnes	5 773 000	5 980 000	5 896 000	6 155 000	6 056 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	124 000	131 000	137 000	141 000	111 000
Recovered (c)	tonnes (sulphur content)	373 000	408 000	410 000	440 000	455 000
Slab zinc	tonnes	203 460	224 000	224 000	227 500	221 500

Note(s):-

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

Exports

Commodity	Units	2002	2003	2004	2005	2006
Cement						
Cement clinkers	tonnes	1 325	2 326	1 585	4 610	3 119
Portland cement	tonnes	108 209	209 122	326 234	295 457	410 232
Other cement	tonnes	86 102	53 743	30 013	18 513	134 225
Primary aggregates	tonnes	12 743 000	12 427 000	(a) *14 300 000	(a) *14 100 000	(a) *14 900 000
Aluminium and bauxite						
Bauxite	tonnes	35 719	58 848	96 740	93 993	107 660
Alumina	tonnes	125 292	51 228	267 947	264 116	301 767
Alumina hydrate	tonnes	37 548	48 026	42 398	48 643	45 480
Unwrought	tonnes	356 282	408 302	314 462	304 993	370 471
Unwrought alloys	tonnes	225 385	227 283	320 583	304 675	341 439
Scrap	tonnes	186 791	187 522	234 761	265 755	334 426
Antimony						
Metal	tonnes	115	315	212	570	886
Oxide	tonnes	345	270	652	664	780
Arsenic						
Metallic arsenic	tonnes	45	64	115	50	33
Barytes	tonnes	98 393	91 083	77 269	52 444	37 392
Bentonite and fuller's earth						
Bentonite	tonnes	178 006	180 736	203 897	186 286	132 076
Fuller's earth	tonnes	4 019	3 752	9 085	2 931	2 141
Bismuth						
Metal	tonnes	100	327	136	97	48
Bromine (b)	kilograms	11 626 756	5 221 557	1 001 471	1 388 695	1 333 583
Cadmium						
Metal	tonnes	741	572	621	553	1 064
Chromium						
Ores & concentrates	tonnes	46 386	52 636	58 623	72 062	74 909
Metal	tonnes	1 282	1 817	2 655	3 543	4 430
Coal						
Anthracite	tonnes	162 820	206 426	161 320	165 918	196 407
Other coal	tonnes	6 539 589	5 574 363	8 624 870	8 445 919	11 940 024
Briquettes	tonnes	13 472	1 362	71 710	58 241	73 524

Netherlands

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Cobalt						
Metal	tonnes	690	2 247	1 954	1 326	587
Oxides	tonnes	271	150	953	1 323	112
Copper						
Unwrought	tonnes	10 075	18 605	32 548	39 638	31 204
Scrap	tonnes	101 624	109 595	140 909	207 551	306 132
Diamond						
Unsorted	carats	£1 672 000	£1 490 000	£1 883 000	£928 000	£1 564 207
Gem, rough	carats	£64 000	£437 000	—	—	...
Gem, cut	carats	£10 491 000	£8 511 000	£9 806 000	£8 687 000	£16 579 000
Industrial	carats	£758 000	£813 000	£188 000	£842 000	£4 146 000
Dust	carats	£505 000	£776 000	£724 000	£44 000	£112 000
Diatomite	tonnes	6 583	1 212	1 569	804	1 395
Feldspar	tonnes	808	749	81	17	552
Fluorspar	tonnes	12 752	19 186	3 019	37 113	1 587
Gold						
Metal	kilograms	9 601	8 094	24 557	11 603	19 634
Waste & scrap	kilograms	108 000	276 600	62 212	72 427	98 813
Graphite	tonnes	2 851	5 209	5 987	3 240	2 991
Gypsum						
Crude	tonnes	24 263	32 752	37 920	53 351	32 425
Calcined	tonnes	26 463	7 905	11 088	61 508	70 005
Iodine	kilograms	147 664	527 769	58 633	59 228	76 080
Iron ore	tonnes	42 244	20 881	1 384 740	1 977 963	2 491 191
Iron, steel and ferro-alloys						
Pig iron	tonnes	5 131	7 377	31 821	40 552	28 806
Sponge & powder	tonnes	107 474	15 255	15 794	46 464	22 899
Ferro-chrome	tonnes	9 122	38 469	70 272	81 105	92 920
Ferro-silico-chrome	tonnes	5	68	18	508	299
Ferro-silico-magnesium	tonnes	...	121	751	4 195	...
Ferro-manganese	tonnes	23 131	25 842	53 367	49 203	28 423
Ferro-silico-manganese	tonnes	7 037	20 830	16 109	13 994	14 118
Ferro-molybdenum	tonnes	1 242	1 610	2 712	4 304	5 652
Ferro-nickel	tonnes	4 159	4 112	9 855	23 252	42 421
Ferro-niobium	tonnes	130	131	47	126	217
Ferro-phosphorus	tonnes	...	4 447	12 515	12 173	...
Ferro-silicon	tonnes	9 899	27 511	27 328	95 845	97 120
Ferro-titanium & ferro-silico-titanium	tonnes	225	213	660	6 235	4 281
Ferro-tungsten & ferro-silico-tungsten	tonnes	217	264	193	624	477
Ferro-vanadium	tonnes	910	2 838	2 901	22 495	5 855
Other ferro-alloys	tonnes	9 379	10 519	5 925	9 700	5 683
Silicon metal	tonnes	8 819	15 957	10 319	40 393	56 525
Ingots, blooms, billets	tonnes	538 825	239 603	309 454	152 593	378 061
Scrap	tonnes	3 064 283	3 242 779	3 859 394	4 140 362	4 786 987
Kaolin	tonnes	234 669	335 299	307 337	441 248	431 027
Lead						
Ores & concentrates	tonnes	208	1 526	2 730	17 161	27 068
Unwrought	tonnes	1 263	23 942	34 426	24 382	11 133
Scrap	tonnes	5 670	8 732	12 395	11 950	16 067
Lithium						
Oxides	tonnes	203	190	187	115	154
Carbonate	tonnes	104	89	199	224	405
Magnesite and magnesia						
Magnesite	tonnes	2 944	12 352	8 704	1 452	4 750
Magnesia	tonnes	438 407	384 711	431 175	492 077	465 555
Manganese						
Ores & concentrates	tonnes	...	12 041	15 143	14 903	...
Metal	tonnes	3 869	7 365	12 548	13 585	16 739
Mercury	kilograms	344 400	105 100	183 998	188 220	176 670
Mica	tonnes	4 384	5 359	6 084	2 912	2 735
Molybdenum						
Ores & concentrates	tonnes	52 237	17 141	30 424	47 395	27 264
Metal	tonnes	81	161	120	59	190
Oxides	tonnes	1 920	1 640	2 010	2 708	2 110

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Nickel						
Mattes, sinters etc.	tonnes	(a) *19 300	(a) *8 100	37 108	41 174	32 405
Unwrought (c)	tonnes	25 214	33 096	24 467	21 895	77 742
Scrap	tonnes	1 494	3 602	2 745	2 009	1 740
Oxides	tonnes	2 528	0	28 549	6 017	1 757
Crude petroleum	tonnes	849	54 938	136 202	145 541	309 456
Phosphates	tonnes	181 928	94 541	94 150	91 592	98 687
Platinum metals						
Platinum	kilograms	£17 686 000	£19 007 000	£18 570 000	£9 061 000	£8 717 554
Platinum metals	kilograms	£634 000	£1 015 000	£1 377 000	£8 211 000	£3 971 142
Waste & scrap	kilograms	10 900	9 200	201 129	876	16 569
Potash						
Chloride	tonnes	243 242	219 413	197 731	163 072	152 423
Other potassic fertilisers	tonnes	750	468	391	759	1 557
Rare earths						
Rare earth compounds	tonnes	53	95	87	171	157
Ferro-cerium & other pyrophoric alloys	tonnes	14	...	...	0	...
Metals	tonnes	17	58	124	13	16
Salt	tonnes	3 641 444	3 679 323	3 212 606	3 749 442	4 126 810
Sillimanite	tonnes	5 604	6 400	10 097	11 444	7 679
Silver						
Ores & concentrates	kilograms	5 600	...	42 000	...	26 860
Metal	kilograms	...	119 012	99 221	93 668	151 077
Sulphur and pyrites						
Pyrites	tonnes	16 401	...	76 812	82 502	531
Sulphur, crude	tonnes	118 053	223 880	133 553	55 758	...
Sulphur, refined	tonnes	143 272	98 196	170 473	192 922	(d) 436 669
Talc	tonnes	164 515	177 554	225 528	183 270	190 668
Tantalum and niobium						
Tantalum	tonnes	21	23	24	3	76
Tin						
Unwrought	tonnes	4 138	4 278	3 921	5 330	6 971
Unwrought alloys	tonnes	205	240	1 430	1 790	1 051
Scrap	tonnes	643	344	685	297	761
Titanium						
Titanium minerals	tonnes	1 093	3 611	4 050	1 390	1 660
Metal	tonnes	2 344	2 015	1 846	2 181	1 902
Oxides	tonnes	80 663	(a) *65 100	92 050	84 310	95 512
Tungsten						
Ores & concentrates	tonnes	16	1	16	—	276
Metal	tonnes	469	237	777	502	434
Vanadium						
Pentoxide	tonnes	87	219	1 167	381	411
Metal	tonnes	71	379	5	11	6
Zinc						
Ores & concentrates	tonnes	32	...	31 254	5 836	3 730
Unwrought	tonnes	187 416	277 262	265 840	273 832	615 269
Unwrought alloys	tonnes	4 234	7 571	19 867	9 364	38 116
Scrap	tonnes	16 093	24 856	32 684	41 593	39 073
Zirconium						
Concentrates	tonnes	5 361	7 011	8 548	8 178	7 391

Note(s):-

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

(b) May include some fluorine

(c) Including alloys

(d) Including crude

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	44 000 000	45 300 000	37 100 000	40 800 000	43 000 000
Aluminium and bauxite						
Bauxite	tonnes	92 667	120 787	231 213	169 012	118 203
Alumina	tonnes	554 967	634 626	671 167	654 487	440 195
Alumina hydrate	tonnes	141 991	191 165	181 328	223 823	205 902
Unwrought	tonnes	332 873	367 227	349 481	370 979	650 035
Unwrought alloys	tonnes	193 099	216 251	249 182	287 504	321 582
Scrap	tonnes	150 466	138 051	174 969	189 722	197 160
Antimony						
Metal	tonnes	268	511	817	705	651
Oxide	tonnes	1 424	1 481	2 932	3 717	35 127
Arsenic						
Metallic arsenic	tonnes	77	61	110	85	20
Barytes	tonnes	103 133	136 981	155 325	116 512	88 489
Bentonite and fuller's earth						
Bentonite	tonnes	247 142	298 369	358 305	199 692	281 144
Fuller's earth	tonnes	14 975	76 241	76 177	70 482	80 511
Bismuth						
Metal	tonnes	108	274	166	85	168
Bromine (a)	kilograms	2 017 929	981 870	147 994	5 019 459	3 037
Cadmium						
Metal	tonnes	...	357	284	233	113
Cement						
Cement clinkers	tonnes	52 231	679 330	581 267	388 146	494 944
Portland cement	tonnes	370 170	1 614 917	1 812 884	1 632 872	1 925 756
Other cement	tonnes	229 933	826 513	774 050	846 622	1 452 353
Chromium						
Ores & concentrates	tonnes	62 992	52 353	88 660	80 622	99 305
Metal	tonnes	562	310	612	1 838	3 632
Coal						
Anthracite	tonnes	190 633	363 692	293 892	186 936	218 516
Other coal	tonnes	18 685 529	20 158 178	22 241 661	21 958 859	21 368 119
Lignite	tonnes	36 923	23 782	18 294	30 769	22 548
Briquettes	tonnes	13 474	24 574	15 510	58 737	83 734
Cobalt						
Metal	tonnes	478	551	1 340	1 532	1 511
Oxides	tonnes	570	215	369	351	269
Copper						
Unwrought, unrefined	tonnes	11	2 867	10 185	10 485	18 333
Unwrought, refined	tonnes	156 095	123 682	125 310	135 004	147 428
Unwrought alloys	tonnes	1 725	1 326	2 172	1 904	2 214
Scrap	tonnes	70 660	80 262	98 396	92 927	110 753
Diamond						
Unsorted	carats	£2 276 000	£1 858 000	£3 327 000	£344 000	£268 668
Gem, rough	carats	£2 950 000	£828 000	£108 000	£79 000	£632 802
Gem, cut	carats	£17 776 000	£13 846 000	£14 630 000	£14 764 000	£22 399 699
Industrial	carats	£827 000	£940 000	£907 000	£2 009 000	£1 849 992
Dust	carats	£653 103	£686 612	£599 846	£425 453	£487 558
Diatomite	tonnes	12 979	12 069	10 806	7 967	6 799
Feldspar	tonnes	11 603	11 084	9 606	7 721	7 505
Fluorspar	tonnes	55 212	63 896	108 312	45 073	7 836
Gold						
Metal	kilograms	11 825	10 318	16 275	24 679	22 744
Waste & scrap	kilograms	561	1 044	1	1	93
Graphite	tonnes	8 232	10 208	18 139	15 205	12 339
Gypsum						
Crude	tonnes	208 013	132 882	176 349	155 519	227 950
Calcined	tonnes	381 920	387 829	492 478	686 085	483 249
Iodine	kilograms	1 269 000	632 000	357 225	21 015	158 145
Iron ore						
Iron ore	tonnes	7 369 802	8 740 391	12 622 628	12 285 177	10 833 565
Burnt pyrites	tonnes	23 596	22 545	26 717	—	...

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	144 375	63 821	71 664	107 828	122 097
Sponge & powder	tonnes	114 868	71 606	59 030	131 170	251 304
Ferro-chrome	tonnes	114 878	68 424	176 862	170 806	204 637
Ferro-silico-chrome	tonnes	398	6	616	621	1 125
Ferro-silico-magnesium	tonnes	3 212	1 305	2 196	2 779	3 733
Ferro-manganese	tonnes	42 054	72 916	112 073	115 972	102 493
Ferro-silico-manganese	tonnes	40 133	54 901	33 492	30 114	47 986
Ferro-molybdenum	tonnes	1 457	1 800	5 282	5 100	7 554
Ferro-nickel	tonnes	12 428	9 213	38 872	39 305	17 866
Ferro-niobium	tonnes	31	16	16	51	159
Ferro-phosphorus	tonnes	1 976	1 421	...	...	...
Ferro-silicon	tonnes	129 678	110 329	153 435	145 459	122 016
Ferro-titanium & ferro-silico-titanium	tonnes	1 565	2 083	4 272	11 496	11 005
Ferro-tungsten & ferro-silico-tungsten	tonnes	393	405	625	1 148	2 928
Ferro-vanadium	tonnes	3 240	3 565	3 608	5 100	4 409
Other ferro-alloys	tonnes	6 654	4 002	5 680	7 412	25 282
Silicon metal	tonnes	33 395	43 195	36 792	52 931	69 104
Ingots, blooms, billets	tonnes	102 428	124 817	302 637	322 908	390 652
Scrap	tonnes	1 378 767	1 751 693	2 250 964	2 030 115	2 321 144
Kaolin	tonnes	444 622	560 878	646 638	564 518	627 768
Lead						
Unwrought	tonnes	17 070	66 405	83 391	36 051	24 272
Scrap	tonnes	8 824	8 034	7 818	9 700	17 508
Lithium						
Oxides	tonnes	217	237	270	178	359
Carbonate	tonnes	854	956	1 081	1 171	1 356
Magnesite and magnesia						
Magnesite	tonnes	5 758	13 139	20 619	3 057	3 007
Magnesia	tonnes	362 706	392 299	644 428	558 764	454 271
Manganese						
Ores & concentrates	tonnes	7 086	11 136	14 558	35 936	22 495
Metal	tonnes	4 533	9 112	14 347	61 240	22 162
Mercury	kilograms	517 600	143 200	616 057	670 022	889 199
Mica						
Unmanufactured	tonnes	433	139	54	143	176
Ground	tonnes	6 247	8 403	9 951	7 381	7 251
Molybdenum						
Ores & concentrates	tonnes	21 723	29 337	39 710	31 781	34 891
Metal	tonnes	285	459	141	287	801
Oxides	tonnes	1 891	1 577	2 032	1 509	1 441
Nickel						
Mattes, sinters etc.	tonnes	10 394	8 566	9 144	3 832	1 488
Unwrought	tonnes	61 898	65 504	61 516	76 469	62 009
Unwrought alloys	tonnes	47	266	321	343	139
Scrap	tonnes	4 398	5 585	6 582	6 738	9 870
Oxides	tonnes	6 764	7 683	4 632	5 654	3 051
Crude petroleum	tonnes	54 968 223	56 463 347	61 377 494	62 152 486	61 548 064
Phosphates	tonnes	964 035	922 349	724 960	776 661	815 692
Platinum metals						
Platinum	kilograms	£13 377 000	£14 194 000	£11 484 000	£1 107 000	£21 774 398
Platinum metals	kilograms	£8 134 000	£5 463 000	£6 930 000	£1 093 000	£6 819 672
Potash						
Sulphate	tonnes	12 505	12 777	23 765	26 208	24 658
Chloride	tonnes	180 033	467 219	387 637	445 767	265 838
Other potassic fertilisers	tonnes	4 949	6 018	4 321	2 486	5 283
Rare earths						
Cerium compounds	tonnes	44	135	103	141	290
Other rare earth compounds	tonnes	1 380	2 222	2 254	1 879	2 781
Ferro-cerium & other pyrophoric alloys	tonnes	27	2	7	3	...
Metals	tonnes	25	38	10	14	135
Salt	tonnes	432 437	489 369	535 581	630 738	1 150 949
Sillimanite	tonnes	37 966	24 106	12 975	20 001	24 195
Silver						
Metal	kilograms	131 021	140 415	139 218	139 625	263 049

Netherlands

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Sulphur and pyrites						
Sulphur	tonnes	58 270	29 631	40 439	37 083	23 928
Sulphur, sublimed & precipitated	tonnes	55 027	210 984	104 982	37 484	5 563
Talc	tonnes	95 121	220 448	226 602	206 485	243 071
Tantalum and niobium						
Tantalum	tonnes	15	4	35	12	6
Tin						
Unwrought	tonnes	7 008	7 368	6 801	8 730	13 696
Unwrought alloys	tonnes	1 162	1 330	1 832	1 983	1 283
Scrap	tonnes	388	202	155	201	466
Titanium						
Titanium minerals	tonnes	104 309	123 129	154 460	127 941	79 377
Metal	tonnes	2 806	2 676	2 835	1 857	2 234
Oxides	tonnes	44 525	33 290	47 957	92 334	8 387
Tungsten						
Ores & concentrates	tonnes	195	342	222	110	1 532
Metal	tonnes	80	217	210	204	330
Carbide	tonnes	44	18	56	99	49
Vanadium						
Pentoxide	tonnes	815	865	1 718	714	362
Zinc						
Ores & concentrates	tonnes	375 646	430 349	408 032	484 472	532 861
Unwrought	tonnes	126 816	160 793	143 218	144 592	200 473
Unwrought alloys	tonnes	7 633	853	2 318	2 387	40 482
Scrap	tonnes	10 368	14 213	20 288	15 257	14 619
Zirconium						
Concentrates	tonnes	21 401	11 607	13 613	10 975	15 948
Metal	tonnes	42	52	105	88	123

Note(s):-

(a) May include some fluorine

Norway

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	14 000 000	15 000 000	15 000 000	15 000 000	13 380 000
Crushed rock	tonnes	36 000 000	36 000 000	37 000 000	38 000 000	45 280 000
Primary aluminium	tonnes	1 044 000	1 180 200	1 318 000	1 390 000	1 381 000
Cadmium	tonnes	215	323	141	153	125
Cement, finished	tonnes	1 631 000	1 650 000	1 420 000	*1 500 000	...
Coal						
Bituminous (a)	tonnes	2 131 691	2 944 000	3 018 500	1 667 000	2 400 000
Cobalt metal	tonnes	4 000	4 556	4 670	5 021	4 900
Copper, smelter	tonnes	30 483	35 851	35 643	38 681	39 700
Copper, refined	tonnes	30 600	35 852	35 643	38 681	39 700
Feldspar	tonnes	75 184	70 000	67 000	*67 000	*67 000
Graphite	tonnes	8 600	1 000	6 000	9 000	9 000
Iron ore	tonnes	490 000	410 000	586 100	713 000	620 000
Pig iron	tonnes	108 000	*110 000	*100 000	*100 000	*100 000
Crude steel	tonnes	698 000	703 000	725 000	705 000	684 000
Ferro-alloys						
Ferro-chrome	tonnes	61 100	—	—	—	—
Ferro-manganese	tonnes	126 960	*130 000	*130 000	*130 000	*130 000
Ferro-silico-manganese	tonnes	252 723	*250 000	*260 000	*290 000	*310 000
Ferro-silicon	tonnes	359 944	...	389 599	...	...
Other Ferro-alloys	tonnes	48 500	*50 000	*60 000	*60 000	*60 000
Silicon metal	tonnes	152 981	*150 000	193 566	178 572	*150 000
Primary magnesium metal	tonnes	3 100	—	—	—	—
Nepheline syenite	tonnes	330 461	332 000	329 000	320 000	330 000
Nickel, mine	tonnes (metal content)	2 052	—	382	342	362
Nickel, smelter/refinery	tonnes	68 500	77 183	71 410	85 374	82 257
Crude petroleum	tonnes	157 847 000	153 508 000	150 974 000	139 802 000	128 700 000
Natural gas	million m ³	65 501	72 905	78 351	84 702	87 490
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	95 000	105 000	*105 000	*110 000	*110 000
Recovered (c)	tonnes (sulphur content)	19 000	20 000	18 000	19 000	20 000
Talc	tonnes	43 000	48 000	32 000	34 000	*34 000
Titanium minerals						
Ilmenite	tonnes	837 000	859 000	866 700	806 800	850 000
Slab zinc	tonnes	144 538	143 627	140 901	148 000	160 670

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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	12 751 398	12 300 157	12 561 778	13 334 212	14 357 509
Aluminium and bauxite						
Unwrought	tonnes	135 792	150 101	150 479	147 295	126 841
Unwrought alloys	tonnes	992 055	1 212 372	1 333 251	1 365 929	1 412 569
Scrap	tonnes	40 797	37 566	39 742	38 218	42 804
Barytes	tonnes	5 234	11 105	15 888	1 482	14 199
Cadmium						
Metal	tonnes	117	237	304	132	90
Cement						
Cement clinkers	tonnes	98 557	(a) *109 000	(a) *108 000	(a) *179 000	(a) *66 000
Portland cement	tonnes	558 861	(a) *724 000	(a) *413 000	(a) *569 000	(a) *313 000

Norway

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Chromium						
Metal	tonnes	13	141	413	116	203
Cobalt						
Metal	tonnes	3 941	4 635	4 744	4 997	4 990
Oxides	tonnes	249	...	...	...	—
Copper						
Unwrought	tonnes	32 302	35 392	35 632	37 430	38 232
Unwrought alloys	tonnes	1 421	1 195	988	1 707	1 141
Scrap	tonnes	15 814	25 382	21 256	22 667	24 205
Diamond						
Gem, cut	carats	60 000	...	40 000	90 000	40 000
Diatomite	tonnes	36	79	81	1 362	281
Feldspar	tonnes	74 549	68 076	60 972	58 821	66 838
Gold						
Metal	kilograms	2 554	2 527	2 293	2 415	2 337
Waste & scrap	kilograms	1 102	174	127	137	182
Graphite	tonnes	8 129	—	—	—	—
Gypsum						
Crude	tonnes	19 241	27 287	30 825	49 443	40 784
Iodine	kilograms	3 000	1 509	—	—	17
Iron ore						
Iron ore	tonnes	620 478	530 851	648 583	721 975	720 582
Burnt pyrites	tonnes	62 214	62 315	117 389	14 730	2 658
Iron, steel and ferro-alloys						
Pig iron (a)	tonnes	*119 400	*118 400	*123 700	*66 800	*149 300
Ferro-chrome (a)	tonnes	*87 500	*1 900	*600	*200	—
Ferro-manganese (a)	tonnes	*169 600	*213 700	*338 900	*274 200	*282 100
Ferro-silico-manganese	tonnes	240 477	255 243	264 163	289 497	306 932
Ferro-silicon	tonnes	251 252	194 246	256 018	179 503	90 556
Other ferro-alloys	tonnes	49 366	53 913	59 696	55 564	58 033
Silicon metal	tonnes	150 681	151 476	176 458	168 790	152 514
Ingots, blooms, billets	tonnes	126 094	160 127	148 514	151 882	180 500
Scrap	tonnes	227 592	263 510	270 903	267 051	337 088
Lead						
Scrap	tonnes	5 188	987	601	1 013	892
Manganese						
Ores & concentrates	tonnes	3 070	...	105	1 410	7 880
Mica	tonnes	2 155	2 413	2 076	2 003	2 157
Nickel						
Ores & concentrates	tonnes	25 902	6 268	9 575	7 581	7 860
Unwrought	tonnes	67 718	78 389	71 982	84 012	81 440
Scrap	tonnes	139	264	909	897	641
Crude petroleum	tonnes	139 103 257	135 201 186	129 935 579	119 119 538	105 110 521
Platinum metals						
Platinum & platinum metals	kilograms	10 986	11 150	13 360	11 871	11 885
Waste & scrap	kilograms	76 801	616	384	342	29 817
Potash						
Potassic fertilisers	tonnes	3 869	10 964	10 107	7 611	2 243
Rare earths						
Metals	tonnes	27	...	...	11	59
Salt	tonnes	3 687	4 657	4 948	6 679	9 040
Silver						
Metal	kilograms	64 962	62 669	69 207	66 139	52 952
Sulphur and pyrites						
Sulphur, sublimed & precipitated	tonnes	11 630	12 194	2 671	—	—
Talc	tonnes	32 894	32 520	30 279	28 448	31 834
Tin						
Scrap	tonnes	...	14	211	323	236
Titanium						
Titanium minerals	tonnes	443 833	500 000	(a) *416 000	(a) *382 000	(a) *477 000
Metal	tonnes	103	214	182	159	176
Oxides (a)	tonnes	*240 000	*229 000	*193 000	*177 000	*221 000

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Zinc						
Unwrought	tonnes	133 006	125 896	127 410	134 690	138 491
Unwrought alloys	tonnes	6 704	6 245	6 710	5 600	12 275

Note(s):-

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

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	66 824	71 837	85 471	67 562	66 708
Aluminium and bauxite						
Bauxite	tonnes	20 898	22 147	9 035	16 601	11 384
Alumina	tonnes	2 063 999	2 267 237	2 620 149	2 723 588	2 730 064
Alumina hydrate	tonnes	42 984	42 487	42 775	45 957	43 721
Unwrought	tonnes	225 972	277 122	325 514	328 722	352 293
Unwrought alloys	tonnes	56 209	24 473	29 974	42 056	34 783
Scrap	tonnes	100 006	113 228	70 430	20 806	26 326
Antimony						
Metal	tonnes	3	8	0	71	11
Oxide	tonnes	234	351	775	305	507
Arsenic						
Metallic arsenic	tonnes	36	0	—	—	...
Barytes	tonnes	110 755	115 402	129 547	109 802	125 134
Bentonite and fuller's earth						
Bentonite	tonnes	11 618	13 963	13 667	10 000	15 246
Fuller's earth	tonnes	142	111	170	260	209
Cement						
Portland cement	tonnes	186 529	188 442	236 622	373 788	443 104
Other cement	tonnes	5 549	5 026	10 738	12 319	14 147
Chromium						
Ores & concentrates (a)	tonnes	*51 000	*600	*400	*500	*500
Metal	tonnes	53	47	88	92	73
Coal						
Anthracite (b)	tonnes	56 263	84 858	71 785	92 673	55 914
Other coal (b)	tonnes	598 378	586 775	693 106	575 921	472 129
Cobalt						
Metal	tonnes	3 131	4 773	9 629	5 775	6 362
Oxides	tonnes	41	22	4	9	2
Copper						
Unwrought	tonnes	3 645	1 190	2 594	3 190	3 133
Scrap	tonnes	7 609	12 591	11 270	12 420	12 759
Diamond						
Unsorted	carats	100 000	125 000	45 000	...	...
Gem	carats	2 330 000	2 165 000	2 430 000	2 895 000	2 870 000
Industrial	carats	80 000	80 000	75 000	135 000	90 000
Dust	carats	500 000	105 000	310 000	230 000	195 000
Diatomite	tonnes	1 400	1 596	2 500	2 044	1 228
Feldspar	tonnes	13 589	13 710	15 490	17 103	17 199
Fluorspar	tonnes	13 589	—	—	...	...
Gold						
Metal	kilograms	2 927	1 599	1 253	2 099	1 739
Waste & scrap	kilograms	1 613	776	987	1 049	1 304
Graphite	tonnes	615	502	548	423	296
Gypsum						
Crude	tonnes	59 945	49 398	109 069	119 962	117 892
Calcined	tonnes	315 517	295 160	259 001	274 006	287 568
Iodine	kilograms	684 000	1 105 811	1 294 934	1 748 110	1 919 848
Iron ore	tonnes	206 650	178 025	495 047	526 713	216 372

Norway

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	16 844	14 639	8 823	10 841	12 813
Sponge & powder	tonnes	48 170	45 271	38 519	13 729	320
Ferro-chrome	tonnes	499	571	860	1 251	1 440
Ferro-manganese	tonnes	3 987	5 921	9 703	6 154	5 328
Ferro-silico-manganese	tonnes	716	3 560	933	1 071	2 729
Ferro-silicon	tonnes	14 177	19 180	11 684	25 663	26 931
Other ferro-alloys	tonnes	1 543	2 016	1 679	1 877	3 392
Silicon metal	tonnes	8 629	13 424	17 653	26 714	37 439
Ingots, blooms, billets	tonnes	132 220	101 819	150 611	142 986	161 778
Scrap	tonnes	347 080	381 683	416 062	345 634	313 184
Kaolin	tonnes	234 592	241 975	237 725	250 879	241 976
Lead						
Unwrought	tonnes	3 971	2 024	2 970	4 882	4 749
Magnesite and magnesia						
Magnesite	tonnes	3 148	3 736	2 587	2 125	4 265
Magnesia	tonnes	130	190	1 643	500	1 784
Manganese						
Ores & concentrates	tonnes	660 348	803 971	1 132 985	1 172 711	849 729
Metal	tonnes	2 155	3 069	3 610	2 976	3 531
Mercury	kilograms	99	38	42	65	66
Mica	tonnes	1 174	1 759	1 559	1 001	1 141
Nickel						
Mattes, sinters etc.	tonnes	145 072	158 897	136 200	176 657	158 274
Unwrought (c)	tonnes	138	46	222	80	60
Crude petroleum	tonnes	590 064	562 851	440 346	983 848	440 374
Phosphates	tonnes	664 834	666 188	646 319	710 528	672 546
Platinum metals						
Platinum & platinum metals	kilograms	984	747	973	1 076	922
Waste & scrap	kilograms	840	87	59	998	1 102
Potash						
Sulphate	tonnes	200 407	249 307	267 653	247 379	266 149
Chloride	tonnes	339 431	310 954	309 061	306 369	307 422
Rare earths						
Metals	tonnes	558	713	702	544	686
Salt	tonnes	725 887	702 713	741 959	910 846	1 026 541
Sillimanite	tonnes	2 537	2 004	3 605	2 400	2 288
Silver						
Ores & concentrates	kilograms	...	...	3 118 000	...	7 923 075
Metal	kilograms	60 995	72 647	86 037	90 331	64 511
Sulphur and pyrites						
Pyrites	tonnes	225 139	225 492	225 513	26 940	...
Sulphur	tonnes	1 567	628	4 559	16 413	11 983
Sulphur, sublimed & precipitated	tonnes	...	...	...	240	5 571
Talc	tonnes	11 557	14 737	14 522	16 488	10 991
Tin						
Unwrought	tonnes	458	382	47	21	23
Unwrought alloys	tonnes	176	71	79	57	103
Titanium						
Titanium minerals	tonnes	...	...	...	33 000	73 690
Metal	tonnes	386	557	505	636	661
Oxides	tonnes	7 931	8 729	10 026	11 924	16 013
Vanadium						
Metal	tonnes	41	55	32	10	63
Zinc						
Ores & concentrates	tonnes	220 879	221 754	231 563	255 158	248 486

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	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel (a)	tonnes	60 186 000	71 376 000	73 028 000	88 819 000	*90 000 000
Crushed rock	tonnes	25 875 000	26 404 000	29 271 189	33 098 360	38 835 618
Primary aluminium	tonnes	58 777	57 145	58 931	54 508	57 620
Barytes	tonnes	2 708	3 030	3 183	2 357	2 034
Bentonite and fuller's earth						
Bentonite	tonnes	—	—	—	—	93 880
Cadmium	tonnes	440	375	356	408	373
Cement clinker	tonnes	8 811 639	8 647 397	9 620 601	9 468 410	11 219 940
Cement, finished	tonnes	11 206 439	11 653 448	12 566 000	12 646 223	14 688 353
Coal						
Bituminous	tonnes	103 546 000	103 016 400	100 087 100	97 903 730	95 222 512
Lignite	tonnes	58 209 600	60 919 100	61 197 500	61 636 445	60 844 278
Copper, mine	tonnes (metal content)	502 800	503 544	530 768	511 799	497 200
Copper, smelter	tonnes	510 725	559 960	547 228	555 681	555 907
Copper, refined	tonnes	508 674	529 616	550 066	560 256	556 625
Diatomite	tonnes	1 000	700	800	1 700	*1 700
Feldspar	tonnes	209 226	276 264	373 459	426 914	359 512
Gold, mine (b)	kilograms (metal content)	296	356	527	713	*1 700
Gypsum						
Gypsum	tonnes	866 674	1 030 693	970 786	1 048 000	(c) 1 361 509
Anhydrite	tonnes	217 000	197 000	196 000	195 000	...
Pig iron	tonnes	5 296 410	5 585 094	6 292 341	4 476 831	5 332 632
Crude steel	tonnes	8 367 434	9 107 384	10 578 482	8 335 898	9 991 638
Ferro-alloys						
Ferro-chrome	tonnes	106	188	—	—	—
Ferro-manganese	tonnes	602	979	46 898	7 782	4 089
Ferro-silico-manganese	tonnes	7 500	5 000	29 600	10 242	3 310
Ferro-silicon	tonnes	41 759	92 687	83 552	65 118	13 034
Other Ferro-alloys	tonnes	4 200	—	1 419	3 663	4 848
Kaolin (d)	tonnes	89 372	106 761	130 596	159 207	148 579
Lead, mine	tonnes (metal content)	56 600	54 700	52 700	50 900	50 000
Lead, refined	tonnes	65 800	74 300	73 900	81 000	73 000
Magnesite	tonnes	22 100	27 200	57 900	55 300	*56 000
Crude petroleum	tonnes	727 973	764 806	886 188	847 844	795 742
Natural gas	million m ³	5 263	5 315	5 630	5 742	5 651
Salt						
Rock salt	tonnes	838 858	847 880	1 099 072	1 123 219	1 129 875
Brine salt	tonnes	2 719 131	2 790 996	2 940 169	2 889 941	2 899 076
Selenium metal	tonnes	68	78	83	82	87
Silver, mine	kilograms (metal content)	1 342 000	1 332 200	1 372 700	1 262 400	1 265 100
Sulphur and pyrites						
Frasch	tonnes (sulphur content)	760 320	762 689	821 489	801 799	800 200
Recovered (e)	tonnes (sulphur content)	*275 000	293 700	289 100	289 000	*290 000
Recovered (f)	tonnes (sulphur content)	22 777	23 384	23 767	22 193	21 567
Zinc, mine	tonnes (metal content)	152 100	154 277	140 381	135 600	126 600
Slab zinc	tonnes	158 900	154 200	155 500	137 300	133 900

Note(s):-

(1) Poland is believed to produce strontium minerals

(a) Includes an estimate for small producers

(b) Metal production

(c) Including anhydrite

(d) Washed

(e) From metal sulphide processing

(f) From petroleum refining and/or natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	435 628	393 090	790 734	1 237 482	1 671 890
Aluminium and bauxite						
Unwrought (a)	tonnes	32 349	52 132	70 740	81 962	80 266
Scrap	tonnes	65 404	63 022	71 525	82 875	107 939
Bentonite and fuller's earth						
Bentonite	tonnes	568	1 999	1 365	12 061	15 851
Fuller's earth	tonnes	500	660	431	404	580
Bromine	kilograms	2 000	...	...	3 000	5 500
Cadmium						
Metal	tonnes	49	697	665	610	364
Cement						
Cement clinkers	tonnes	6 461	87 470	226 981	256 621	856 035
Portland cement	tonnes	370 832	262 290	341 112	460 479	402 741
Other cement	tonnes	98 766	7 406	7 059	49 970	67 457
Chromium						
Ores & concentrates	tonnes	1 533	...	117	25	7
Metal	tonnes	73	181	0	1	13
Coal						
Anthracite	tonnes	6 677	71 646	8 599	23 331	31 200
Other coal	tonnes	22 608 910	20 044 204	19 684 005	20 816 121	16 586 467
Lignite	tonnes	41 287	35 824	26 929	8 211	317
Cobalt						
Metal	tonnes	1	...	26	19	8
Copper						
Matte & cement	tonnes	2 720	763	1 606	...	13 519
Unwrought	tonnes	279 803	278 113	275 089	290 462	287 666
Unwrought alloys	tonnes	5 020	5 329	5 007	6 183	6 205
Scrap	tonnes	22 529	40 542	42 763	47 463	55 285
Diatomite	tonnes	...	...	536	455	527
Feldspar	tonnes	649	1 626	1 441	1 509	2 749
Gold						
Metal	kilograms	1 210	249	...	100	1 100
Waste & scrap	kilograms	3 239	8 477	4 074	1 100	1 600
Gypsum						
Crude & calcined	tonnes	21 259	24 706	29 467	33 277	40 832
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 003	16 023	57 696	4 917	19 286
Ferro-manganese & Fe-Si-Mn	tonnes	3 637	1 451	66 666	22 713	11 954
Ferro-silicon	tonnes	43 021	84 406	85 538	64 974	16 023
Other ferro-alloys	tonnes	96	86	195	915	1 630
Ingots, blooms, billets	tonnes	1 034 776	975 777	1 585 494	1 249 618	964 361
Scrap	tonnes	1 535 305	1 804 181	1 973 116	1 426 831	1 197 827
Kaolin	tonnes	3 538	10 408	9 941	6 194	7 177
Lead						
Ores & concentrates	tonnes	77 493	86 395	94 126	92 226	73 902
Unwrought	tonnes	38 602	42 518	39 287	44 008	68 635
Scrap	tonnes	2 107	2 408	963	1 652	2 168
Magnesite and magnesia	tonnes	...	34	796	1 208	654
Mercury	kilograms	24 000	...	2	3 000	33 900
Molybdenum						
Metal	tonnes	...	...	...	61	122
Nickel						
Oxides	tonnes	146	339	468	529	577
Crude petroleum	tonnes	450 000	161 074	138 253	216 256	243 699
Phosphates	tonnes	2 511	...	507	1	1
Platinum metals						
Platinum & platinum metals	kilograms	872	308	470	800	100
Waste & scrap	kilograms	6 543	52 366	33 019	1 000	200
Potash						
Potassic fertilisers	tonnes	544	1 023	1 638	932	3 130
Salt	tonnes	339 140	419 201	493 259	495 481	498 345
Silver						
Metal	kilograms	1 135 000	1 251 194	821 501	318 800	519 800

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Sulphur and pyrites						
Sulphur	tonnes	597 905	530 180	560 340	575 796	478 736
Sulphur, sublimed & precipitated	tonnes	...	...	13 706	17 364	18 426
Tin						
Unwrought	tonnes	18	14	64	115	174
Titanium						
Metal	tonnes	5	1	25	740	917
Oxides	tonnes	30 457	23 977	20 818	24 394	25 598
Tungsten						
Metal	tonnes	1	34	89	84	89
Zinc						
Ores & concentrates	tonnes	61 378	64 486	44 257	63 913	61 094
Unwrought	tonnes	78 497	65 661	72 820	74 938	62 332
Unwrought alloys	tonnes	1 844	1 330	850	857	2 513
Scrap	tonnes	1 463	136	269	797	233

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 252 285	1 527 892	1 756 513	1 775 291	2 976 252
Aluminium and bauxite						
Bauxite	tonnes	49 504	67 966	82 233	59 758	61 638
Alumina	tonnes	97 085	120 733	124 274	102 845	114 800
Alumina hydrate	tonnes	25 562	25 572	26 927	29 538	27 358
Unwrought	tonnes	74 302	88 008	85 010	62 403	76 996
Unwrought alloys	tonnes	73 770	94 090	119 305	140 792	167 914
Scrap	tonnes	9 616	13 472	31 536	39 907	52 498
Antimony						
Metal	tonnes	10	49	80	28	158
Oxide	tonnes	711	920	1 042	1 231	1 338
Arsenic						
White arsenic	tonnes	36	32	...	...	...
Metallic arsenic	tonnes	30	—	14	39	21
Asbestos	tonnes	19	—	16	6	6
Barytes	tonnes	6 571	8 318	6 593	7 744	9 138
Bentonite and fuller's earth						
Bentonite	tonnes	68 020	93 915	126 127	115 208	153 266
Fuller's earth	tonnes	1 432	1 263	1 749	2 566	2 564
Bismuth						
Metal	tonnes	4	4	6	14	14
Bromine	kilograms	6 000	2 000	(a) 9 348	6 000	16 100
Cadmium						
Oxide	tonnes	38	...	...	...	...
Cement						
Cement clinkers	tonnes	66 800	70 207	13 746	33 673	45 560
Portland cement	tonnes	630 256	699 379	540 342	444 855	285 135
Other cement	tonnes	23 531	16 352	2 323	5 537	5 700
Chromium						
Ores & concentrates	tonnes	8 461	10 977	13 053	9 391	16 161
Metal	tonnes	18	29	242	54	45
Coal						
Anthracite	tonnes	37 788	49 745	168 095	263 929	295 026
Other coal	tonnes	2 729 972	2 506 316	2 231 606	3 112 462	4 866 783
Cobalt						
Metal	tonnes	44	49	44	35	52
Oxides	tonnes	33	16	37	121	63

Poland

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Copper						
Ores & concentrates	tonnes	5 397	...	30	43 504	112 708
Unwrought	tonnes	1 484	2 257	3 071	7 118	40 899
Scrap	tonnes	5 203	6 001	14 973	5 855	4 885
Diamond						
Gem	carats	15 000	50 000	...	...	...
Industrial	carats	105 000	75 000	...	8 000 000	4 500 000
Dust	carats	£837 000	£780 000	£940 892	£770 196	£454 729
Diatomite	tonnes	6 961	6 394	6 387	6 465	5 997
Feldspar	tonnes	168 167	155 283	201 509	215 185	219 719
Fluorspar	tonnes	5 609	5 858	7 501	6 290	7 834
Gold						
Metal	kilograms	774	588	2 301	100	400
Graphite	tonnes	2 700	3 150	3 089	3 028	3 658
Gypsum						
Crude	tonnes	46 123	101 589	163 227	150 622	175 567
Calcined	tonnes	124 727	123 919	100 886	91 356	150 619
Iodine	kilograms	13 312	23 875	18 687	10 200	18 700
Iron ore						
Iron ore	tonnes	5 674 667	6 817 467	8 627 650	5 785 200	8 571 004
Burnt pyrites	tonnes	1 273 170	1 764 657	2 303 655	1 003 456	...
Iron, steel and ferro-alloys						
Pig iron	tonnes	103 349	86 108	150 163	239 240	220 163
Sponge & powder	tonnes	13 193	34 091	34 456	24 490	12 448
Ferro-chrome	tonnes	7 716	8 073	10 352	10 863	12 318
Ferro-manganese	tonnes	42 851	37 530	46 414	29 230	35 508
Ferro-silico-manganese	tonnes	40 023	53 968	64 985	51 197	63 332
Ferro-molybdenum	tonnes	833	829	1 138	1 178	1 168
Ferro-silicon	tonnes	25 664	27 132	29 551	22 769	24 986
Ferro-vanadium	tonnes	308	228	393	313	480
Other ferro-alloys	tonnes	6 431	6 322	7 454	11 871	15 521
Silicon metal	tonnes	6 208	10 586	9 967	9 243	11 935
Ingots, blooms, billets	tonnes	31 962	85 027	191 722	298 314	569 057
Scrap	tonnes	69 947	96 426	278 271	238 113	289 956
Kaolin	tonnes	77 155	81 181	89 139	90 931	94 257
Lead						
Unwrought	tonnes	43 821	47 030	50 189	53 095	56 504
Lithium						
Oxides	tonnes	69	74	132	136	266
Carbonate	tonnes	55	56	117	128	252
Magnesite and magnesia	tonnes	73 266	77 830	82 164	71 774	103 380
Manganese						
Ores & concentrates	tonnes	14 597	10 037	205 290	38 845	6 017
Metal	tonnes	821	432	652	499	1 155
Mercury	kilograms	21 976	3 875	4 456	15 700	9 200
Mica	tonnes	557	486	878	547	918
Molybdenum						
Ores & concentrates	tonnes	16	1	8	1	5
Metal	tonnes	84	36	142	102	208
Nickel						
Unwrought (b)	tonnes	1 561	1 589	2 207	1 683	2 573
Crude petroleum	tonnes	16 400 000	17 448 290	17 316 135	17 639 489	19 479 284
Phosphates	tonnes	1 407 541	1 452 726	1 885 350	1 558 007	1 658 266
Platinum metals						
Platinum & platinum metals	kilograms	208	402	...	3 560	15 500
Potash						
Fertiliser salts	tonnes	1 245	948	2 264	621	1 066
Sulphate	tonnes	18 752	19 967	24 143	21 770	14 517
Chloride	tonnes	754 473	821 469	1 098 679	1 041 798	770 674
Other potassic fertilisers	tonnes	2 877	5 223	4 174	4 726	4 110
Rare earths						
Rare earth compounds	tonnes	77	245	61	118	123
Salt	tonnes	156 461	156 406	294 590	376 829	582 080
Sillimanite						
Sillimanite	tonnes	16 182	17 682	14 928	9 975	21 196
Mullite	tonnes	659	1 974	1 355	2 207	2 012

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Silver						
Metal	kilograms	18 297	36 266	34 563	40 100	28 800
Sulphur and pyrites						
Pyrites	tonnes	504	1 933	1 061	1 013	5 065
Sulphur	tonnes	98 279	88 544	78 292	78 274	83 432
Sulphur, sublimed & precipitated	tonnes	120	97	11	3	52
Talc	tonnes	17 989	18 342	16 155	20 536	22 348
Tin						
Unwrought (b)	tonnes	1 344	1 077	1 367	1 437	1 583
Scrap	tonnes	...	...	697	705	1 653
Titanium						
Titanium minerals	tonnes	73 655	101 284	98 214	100 539	95 057
Metal	tonnes	163	151	271	328	2 550
Oxides	tonnes	30 029	30 546	29 710	33 417	36 943
Tungsten						
Metal	tonnes	68	42	46	108	111
Vanadium						
Metal	tonnes	...	...	32	32	35
Zinc						
Ores & concentrates	tonnes	112 193	113 990	114 800	78 746	129 551
Unwrought (b)	tonnes	14 789	22 182	31 603	26 670	40 135
Scrap	tonnes	251	656	4 636	3 899	2 681
Zirconium						
Concentrates	tonnes	1 207	1 056	1 085	870	863
Metal	tonnes	13	2	23	6	43

Note(s):-

(a) May include some fluorine

(b) Including alloys

Portugal

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	8 075 609	7 417 636	9 405 437	8 284 238	...
Crushed rock	tonnes	84 107 486	70 994 473	73 264 403	73 343 159	...
White arsenic	tonnes	*50	*50	*50	*50	*50
Cement clinker (a)	tonnes	114 524	845 594	1 082 678	1 450 646	1 412 869
Cement, finished	tonnes	9 760 964	8 485 826	8 839 048	8 426 822	*6 800 000
Copper, mine	tonnes (metal content)	77 227	77 581	95 700	89 541	78 660
Feldspar	tonnes	141 125	129 366	98 262	133 344	129 333
Gypsum	tonnes	579 143	419 799	461 212	389 180	366 599
Crude steel	tonnes	894 000	1 000 000	1 400 000	1 400 000	1 400 000
Kaolin	tonnes	147 448	169 669	152 077	164 072	167 298
Lead, refined	tonnes	*6 000	*6 000	*6 000	*6 000	*5 000
Lithium minerals						
Lepidolite	tonnes	16 325	24 606	28 696	26 185	28 497
Salt						
Rock salt	tonnes	604 969	602 035	661 704	597 945	586 190
Sea salt	tonnes	40 139	86 603	75 400	92 495	76 610
Silver, mine	kilograms (metal content)	19 500	21 100	24 400	23 786	20 076
Sulphur and pyrites						
Recovered	tonnes (sulphur content)	28 000	27 000	25 000	30 000	38 000
Talc	tonnes	8 279	5 460	6 231	5 362	5 517
Tin, mine	tonnes (metal content)	345	203	200	243	25
Tungsten, mine (b)	tonnes (metal content)	693	715	746	816	780
Uranium, mine	tonnes (metal content)	2	—	—	—	—
Zinc, mine	tonnes (metal content)	—	—	—	—	7 505

Note(s):-

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

(a) Sales

(b) Wolframite and scheelite

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	31 516	31 257	53 451	138 939	101 721
Aluminium and bauxite						
Unwrought alloys	tonnes	84 709	111 732	105 837	140 505	152 591
Scrap	tonnes	24 671	19 513	28 576	41 797	38 026
Antimony						
Metal	tonnes	—	...	26	1	646
Cement						
Cement clinkers	tonnes	41 626	117 332	148 984	1 271 578	1 138 307
Portland cement	tonnes	59 628	114 182	286 819	1 110 739	1 204 981
Other cement	tonnes	5 815	6 081	13 267	17 301	11 364
Copper						
Ores & concentrates	tonnes	196 709	286 781	346 534	375 312	328 296
Unwrought	tonnes	415	747	1 165	9 356	918
Scrap	tonnes	18 236	24 440	35 927	33 583	29 736
Diamond						
Gem, rough	carats	£1 793 000	£3 650 000	£96 000	—	...
Gem, cut	carats	£23 412 000	£37 983 000	£45 779 000	£17 981 000	£8 000
Diatomite	tonnes	135	2 050	7 755	11	286
Feldspar	tonnes	603	5	—	1 546	862
Gold						
Waste & scrap	kilograms	...	...	192 759	4 800	400
Gypsum						
Calcined	tonnes	852	1 351	1 424	1 332	4 280

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	15 058	33 032	184 547	159 868	79 697
Scrap	tonnes	231 761	201 189	259 297	330 536	479 017
Kaolin	tonnes	15 318	10 131	11 383	31 484	46 494
Lead						
Unwrought	tonnes	3 769	2 367	1 988	1 269	2 018
Scrap	tonnes	2 733	3 502	3 452	4 127	9 471
Salt	tonnes	4 413	3 952	4 444	6 130	11 872
Sulphur and pyrites						
Sulphur	tonnes	20 172	9 847	10 838	28 122	9 747
Sulphur, sublimed & precipitated	tonnes	509	408	121	80	500
Talc	tonnes	150	204	1 117	1 614	6 013
Tantalum and niobium						
Tantalum	tonnes	...	18	42	15	4
Tin						
Concentrates	tonnes	537	266	147	—	0
Tungsten						
Ores & concentrates	tonnes	588	...	900	1 425	1 305
Metal	tonnes	693	143	217	12	14
Zinc						
Scrap	tonnes	1 001	1 198	1 855	2 050	2 023

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	867 165	641 696	790 615	698 717	488 917
Aluminium and bauxite						
Alumina	tonnes	9 820	10 152	9 257	6 250	7 760
Unwrought	tonnes	5 276	7 903	10 903	13 941	16 292
Unwrought alloys	tonnes	167 619	185 279	200 335	224 631	237 617
Scrap	tonnes	9 043	1 755	4 214	2 651	1 487
Antimony						
Metal	tonnes	10	10	6	5	2
Oxide	tonnes	254	147	242	137	166
Asbestos	tonnes	7 137	1 568	474	356	...
Barytes	tonnes	2 607	3 589	2 630	5 382	3 099
Bentonite and fuller's earth						
Bentonite	tonnes	16 115	14 208	17 907	16 881	17 640
Fuller's earth	tonnes	351	936	662	483	379
Cement						
Cement clinkers	tonnes	5 421	7 715	8 775	17 084	140 673
Portland cement	tonnes	1 485 581	1 225 167	1 066 969	669 272	356 040
Other cement	tonnes	11 842	50 576	65 793	10 479	14 286
Chromium						
Ores & concentrates	tonnes	2 334	2 062	1 547	2 599	2 845
Metal	tonnes	16	14	18	18	336
Coal						
Anthracite	tonnes	211 583	276 685	30 630	48 785	30 688
Other coal	tonnes	5 627 373	5 084 416	5 241 255	5 386 968	5 630 721
Copper						
Unwrought	tonnes	4 307	6 245	7 740	4 572	5 752
Scrap	tonnes	838	1 383	1 874	3 329	5 946
Diamond						
Gem, rough	carats	£24 832 000	£26 362 000	£18 757 000	£10 968 000	£925 000
Gem, cut	carats	£5 367 000	£3 926 000	£11 608 000	£7 015 000	£2 940 000
Industrial	carats	£874 000	£803 000	£669 000	£565 000	£381 000
Dust	carats	750 000	690 000	710 000	...	...
Diatomite	tonnes	1 537	3 223	2 263	3 946	3 432
Feldspar	tonnes	87 177	79 521	96 049	115 286	98 106
Fluorspar	tonnes	1 196	574	158	1 633	2 530

Portugal

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Gold						
Metal	kilograms	3 303	1 893	655	6 074	5 234
Graphite	tonnes	1 436	1 129	1 317	1 722	1 954
Gypsum						
Crude	tonnes	33 696	60 120	82 603	79 370	96 070
Calcined	tonnes	371 705	338 228	340 665	361 284	307 953
Iodine	kilograms	25 000	28 807	14 717	12 000	1 400
Iron, steel and ferro-alloys						
Pig iron	tonnes	25 139	12 763	16 089	19 713	15 149
Ferro-manganese	tonnes	490	779	889	885	816
Ferro-silico-manganese	tonnes	2 331	5 757	1 742	10 021	12 779
Ferro-molybdenum	tonnes	126	85	193	759	49
Ferro-silicon	tonnes	2 296	2 339	1 881	3 028	3 341
Other ferro-alloys	tonnes	4 636	3 809	2 788	8 440	10 756
Ingots, blooms, billets	tonnes	123 087	5 829	7 167	10 538	14 494
Scrap	tonnes	218 978	353 646	292 753	653 988	1 056 949
Kaolin	tonnes	125 201	135 681	124 508	143 943	137 656
Lead						
Unwrought	tonnes	16 952	15 624	18 885	21 198	17 523
Magnesite and magnesia						
Magnesite	tonnes	909	885	969	1 012	1 269
Magnesia	tonnes	6 078	5 855	4 808	5 998	6 544
Mercury	kilograms	533	523	291	0	0
Mica	tonnes	113	198	311	193	630
Molybdenum						
Metal	tonnes	15	15	24	14	14
Nickel						
Unwrought (a)	tonnes	293	184	310	602	739
Crude petroleum	tonnes	11 635 480	12 544 785	13 081 242	12 941 851	13 479 579
Phosphates	tonnes	134 664	141 740	149 365	137 423	91 912
Potash						
Sulphate	tonnes	2 144	4 457	7 526	3 631	3 227
Chloride	tonnes	73 748	55 775	79 232	65 682	58 237
Other potassic fertilisers	tonnes	1 570	1 630	1 752	2 780	2 141
Salt	tonnes	119 892	139 720	121 621	70 266	110 581
Sillimanite	tonnes	405	330	337	160	192
Silver						
Metal	kilograms	64	2 520	2 237	200	300
Sulphur and pyrites						
Sulphur	tonnes	5 981	6 333	3 532	5 878	4 485
Sulphur, sublimed & precipitated	tonnes	5	5	431	28	3
Talc	tonnes	16 685	17 721	20 203	23 583	30 955
Tantalum and niobium						
Tantalum	tonnes	171	69	68	115	103
Tin						
Unwrought	tonnes	1 223	781	434	971	763
Unwrought alloys	tonnes	29	63	71	100	274
Titanium						
Oxides	tonnes	20 230	18 922	20 120	17 458	18 565
Tungsten						
Metal	tonnes	28	103	153	179	106
Carbide	tonnes	79	96	109	105	97
Zinc						
Unwrought	tonnes	13 649	18 113	13 450	11 862	19 015
Unwrought alloys	tonnes	10 678	10 616	14 675	11 573	5 778
Zirconium						
Concentrates	tonnes	2 924	2 802	2 045	5 918	6 426

Note(s):-

(a) Including alloys

Romania

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	1 568 994	1 013 386	1 458 266	1 394 414	*1 600 000
Alumina	tonnes (Al ₂ O ₃ content)	361 047	332 853	560 243	689 329	621 973
Primary aluminium	tonnes	187 052	196 844	222 347	243 605	258 300
Barytes	tonnes	100	23	—	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	15 389	17 637	18 161	18 190	20 299
Bismuth, mine	tonnes (metal content)	*40	*40	*40	*40	*40
Cement, finished	tonnes	5 679 776	5 991 962	6 238 584	7 032 100	8 391 000
Coal						
Anthracite & bituminous	tonnes	3 976 000	3 309 000	3 016 000	*3 000 000	*3 000 000
Brown coal & lignite	tonnes	28 015 000	31 121 000	29 947 000	28 554 000	36 069 000
Copper, mine	tonnes (metal content)	19 323	23 389	20 380	16 286	12 179
Copper, smelter	tonnes	3 000	3 000	61	—	—
Copper, refined	tonnes	11 453	16 739	24 526	20 739	21 581
Diatomite	tonnes	20 922	33 296	20 626	1 402	—
Feldspar	tonnes	51 959	72 827	60 924	74 927	37 553
Fluorspar	tonnes	*15 000	*15 000	*15 000	*15 000	*15 000
Gold, mine	kilograms (metal content)	1 137	1 878	1 430	*500	*500
Graphite	tonnes	1 001	1 014	395	486	—
Gypsum	tonnes	421 235	409 516	490 372	532 867	598 940
Iron ore	tonnes	248 000	244 000	231 417	220 788	...
Pig iron	tonnes	3 979 346	4 101 409	4 243 956	4 097 998	3 941 035
Crude steel	tonnes	5 490 434	5 692 496	6 076 600	5 631 566	6 263 000
Ferro-alloys						
Ferro-manganese	tonnes	—	—	191	18 625	3 224
Ferro-silico-manganese	tonnes	84 720	141 899	194 754	100 957	53 076
Kaolin	tonnes	22 517	25 741	22 338	26 772	10 790
Lead, mine	tonnes (metal content)	17 500	15 747	18 297	11 610	7 500
Lead, refined	tonnes	23 000	28 000	32 590	32 903	29 333
Manganese ore	tonnes	59 148	72 931	79 130	72 000	70 910
Crude petroleum	tonnes	5 810 000	5 651 000	5 462 000	5 212 000	5 000 000
Natural gas	million m ³	13 647	13 174	13 246	12 120	12 720
Salt	tonnes	2 257 886	2 416 970	2 399 956	2 442 640	2 619 435
Silver, mine	kilograms (metal content)	*18 000	*18 000	*18 000	*18 000	*18 000
Sulphur and pyrites						
Recovered	tonnes (sulphur content)	29 000	49 000	53 000	79 000	60 000
Talc	tonnes	7 310	10 082	9 725	6 760	2 967
Uranium, mine	tonnes (metal content)	90	90	90	*90	*90
Zinc, mine	tonnes (metal content)	21 512	22 081	23 599	13 784	9 574
Slab zinc	tonnes	38 000	51 000	52 746	56 795	43 705

Note(s):-

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

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	18 927	35 924	23 073	63 110	51 793
Aluminium and bauxite						
Alumina	tonnes	5 128	155 094	209 950	261 862	137 753
Unwrought (a)	tonnes	88 022	35 094	79 508	39 254	22 782
Scrap	tonnes	6 963	5 787	4 703	4 829	11 132
Bentonite and fuller's earth						
Bentonite	tonnes	4 430	4 056	8 810	7 154	521
Cement						
Cement clinkers	tonnes	572 684	360 639	669 204	465 660	608 616
Portland cement	tonnes	1 020 819	963 978	701 686	739 215	447 713

Romania

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Copper						
Ores & concentrates	tonnes	87 299	94 668	81 485	84 084	72 900
Matte & cement	tonnes	...	218	3 482	...	2 818
Unwrought	tonnes	3 826	1 185	815	614	735
Scrap	tonnes	19 432	16 683	15 979	22 665	41 911
Diamond						
Dust	carats	...	...	...	...	35 455 000
Feldspar	tonnes	15 465	33 265	28 820	28 859	20 563
Gypsum	tonnes	6 473	10 539	14 277	15 089	14 283
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 686	6 367	3 339	...	1
Sponge & powder	tonnes	7 797	6 886	9 187	12 522	12 851
Ferro-silico-manganese	tonnes	(b) ...	124 557	179 788	142 617	41 000
Other ferro-alloys	tonnes	88 368	2 529	3 891	8 657	3 561
Ingots, blooms, billets	tonnes	162 991	130 415	161 438	100 515	87 685
Scrap	tonnes	2 070 119	2 386 017	2 394 490	1 661 747	1 862 498
Lead						
Ores & concentrates	tonnes	36 089	30 390	25 092	25 012	18 104
Unwrought	tonnes	16 544	23 388	20 894	22 120	18 786
Scrap	tonnes	1 518	964	1 689	3 295	4 389
Salt	tonnes	393 787	546 390	497 826	598 154	503 629
Sulphur and pyrites						
Sulphur	tonnes	5 505	12 974	20 682	54 917	43 255
Titanium						
Metal	tonnes	80	94	277	255	579
Zinc						
Ores & concentrates	tonnes	59 456	99 978	31 665	26 611	16 796
Unwrought	tonnes	34 261	49 234	42 968	42 013	32 008

Note(s):-

(a) Including alloys

(b) Included with 'other ferro-alloys'

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	218 348	213 091	370 184	197 911	332 191
Aluminium and bauxite						
Bauxite	tonnes	843 557	821 036	1 532 335	1 655 045	1 597 023
Alumina	tonnes	31 763	223 466	125 902	29 350	43 594
Unwrought (a)	tonnes	...	3 145	7 449	2 849	4 151
Antimony						
Metal	tonnes	64	65	62	55	43
Asbestos	tonnes	12 137	11 859	13 036	9 077	3 272
Barytes	tonnes	16 869	2 943	9 943	5 747	7 604
Bentonite and fuller's earth	tonnes	14 733	3 383	4 652	4 126	5 043
Cement						
Portland cement	tonnes	20 478	123 332	228 506	167 686	102 759
Chromium						
Ores & concentrates	tonnes	3 869	2 701	2 562	2 828	1 675
Metal	tonnes	60	70	58	245	958
Coal						
Anthracite	tonnes	14 124	18 267	74 708	82 683	60 272
Other coal	tonnes	3 658 335	3 251 154	3 584 413	3 681 406	3 398 344
Lignite	tonnes	153	18 554	44 787	367 781	620 251
Copper						
Unwrought	tonnes	12 248	2 225	7 255	9 723	12 794
Diatomite	tonnes	2 909	3 267	3 294	3 183	3 707
Feldspar	tonnes	35 924	41 385	38 470	39 448	31 433
Fluorspar	tonnes	6 653	5 547	4 117	6 285	3 915
Graphite	tonnes	...	387	315	548	488
Gypsum	tonnes	102 708	48 336	37 805	69 027	118 652

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iodine	kilograms	...	423	833	1 054	1 107
Iron ore	tonnes	6 198 085	6 977 977	6 609 026	6 601 393	6 117 270
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	66 087	69 411	92 302	88 454	78 645
Silicon metal	tonnes	1 590	5 888	3 401	2 813	8 947
Ingots, blooms, billets	tonnes	724 751	510 940	559 793	448 454	633 196
Kaolin	tonnes	71 628	82 981	71 987	55 653	54 862
Lead						
Ores & concentrates	tonnes	32 043	14 899	26 920	31 085	13 288
Unwrought	tonnes	2 811	1 111	1 667	1 620	1 400
Magnesite and magnesia	tonnes	35 478	23 255	26 209	27 243	27 963
Manganese						
Ores & concentrates	tonnes	209 891	380 043	534 014	357 327	3 134
Metal	tonnes	230	297	303	427	1 000
Mercury	kilograms	—	72	24 287	20 288	49 623
Mica						
Mica	tonnes	...	590	828	886	912
Nickel						
Unwrought (a)	tonnes	457	280	563	745	747
Crude petroleum	tonnes	5 690 063	5 216 636	7 314 284	8 688 818	8 678 466
Phosphates	tonnes	249 271	264 547	303 713	283 192	148 110
Potash						
Sulphate	tonnes	2 174	41 698	8 070	757	6 361
Chloride	tonnes	58 108	33 920	53 008	41 974	35 384
Salt	tonnes	59 231	99 679	120 787	131 683	113 585
Silver						
Metal	kilograms	(b) *7 700	(b) *10 900	(b) *10 900	(b) *17 700	27 443
Sulphur and pyrites						
Sulphur	tonnes	357	5 660	2 075	964	1 413
Sulphur, sublimed & precipitated	tonnes	13	30	9	113	112
Talc	tonnes	1 200	1 187	1 609	1 962	2 101
Tin						
Unwrought (a)	tonnes	245	291	188	216	421
Titanium						
Titanium minerals	tonnes	1 993	2 192	2 334	2 111	1 809
Metal	tonnes	...	83	195	328	486
Oxides	tonnes	4 742	5 454	6 378	7 600	9 794
Zinc						
Ores & concentrates	tonnes	55 758	113 683	109 019	150 282	137 878
Unwrought (a)	tonnes	15 482	16 030	19 555	14 640	23 732
Zirconium						
Concentrates	tonnes	678	827	809	552	766
Metal	tonnes	12	22	30	22	32

Note(s):-

(a) Including alloys

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

Slovakia

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	2 238 400	2 627 200	3 174 400	6 807 116	7 522 034
Crushed rock	tonnes	8 847 900	9 212 400	9 717 300	12 575 266	15 337 749
Primary aluminium	tonnes	111 600	132 089	156 893	158 400	158 289
Barytes	tonnes	25 820	12 000	27 063	26 589	25 800
Bentonite and fuller's earth						
Bentonite	tonnes	65 500	74 700	73 280	77 055	95 700
Cement, finished	tonnes	3 140 581	3 147 478	3 158 308	3 498 685	3 592 509
Coal						
Brown coal	tonnes	3 406 400	3 076 100	2 578 273	2 513 030	2 208 590
Copper, refined	tonnes	6 989	600	—	—	—
Gold, mine	kilograms (metal content)	77	79	107	109	84
Gypsum (a)	tonnes	121 680	93 800	127 100	107 500	126 200
Iron ore	tonnes	326 300	287 000	305 072	258 500	...
Pig iron	tonnes	3 533 150	3 892 000	3 765 000	3 681 000	4 145 000
Crude steel	tonnes	4 275 470	4 588 000	4 454 000	4 485 000	5 093 000
Ferro-alloys						
Ferro-chrome	tonnes	5 695	1 924	1 784	867	19
Ferro-silico-manganese	tonnes	62 084	52 733	64 862	47 843	...
Ferro-silicon	tonnes	35 920	41 539	34 684	16 512	...
Other ferro-alloys	tonnes	24 657	44 589	68 096	48 161	...
Kaolin	tonnes	24 600	24 800	89 424	34 830	63 210
Magnesite	tonnes	929 630	1 640 900	965 900	920 100	941 100
Perlite	tonnes	18 635	15 000	23 840	8 630	10 560
Crude petroleum	tonnes	51 921	47 953	42 410	33 150	30 520
Natural gas	million m ³	212	201	178	151	137
Salt	tonnes	97 400	133 100	121 600	105 100	122 500
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	5 000	5 000	5 000	5 000	5 000
Recovered (c)	tonnes (sulphur content)	61 000	60 000	65 000	65 000	65 000
Talc	tonnes	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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	570 446	328 547	(a) *542 000	(a) *796 000	(a) *644 000
Aluminium and bauxite						
Unwrought	tonnes	2 225	3 098	6 827	15 302	66 893
Unwrought alloys	tonnes	156 343	169 698	183 346	159 134	93 141
Scrap	tonnes	5 417	5 722	7 594	8 042	9 876
Barytes	tonnes	11 037	6 642	7 919	7 876	13 843
Bentonite and fuller's earth						
Bentonite	tonnes	56 645	66 954	85 341	76 014	105 273
Fuller's earth	tonnes	1 007	856	*1 000	1 757	...
Cement						
Cement clinkers	tonnes	9 501	27 695	4 768	26 549	27 092
Portland cement	tonnes	1 584 379	1 476 998	1 470 728	1 433 926	1 372 554
Other cement	tonnes	18 992	15 958	24 408	44 670	35 596
Chromium						
Metal	tonnes	2 511	2 289	2 362	1 876	1 735
Coal						
Hard coal (b)	tonnes	22	18	34 346	47 485	32 784

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Copper						
Unwrought	tonnes	1 151	7 094	15 680	19 130	27 178
Scrap	tonnes	7 711	8 889	12 764	14 752	18 821
Gold						
Metal	kilograms	255	325	274	268	569
Waste & scrap	kilograms	1 600	1 012	357	986	1 000
Iron ore	tonnes	127 174	76 957	135 398	8 581	141 448
Iron, steel and ferro-alloys						
Pig iron	tonnes	13 213	37 145	73 303	31 261	50 497
Ferro-manganese	tonnes	47 074	37 139	57 440	41 918	59 475
Ferro-silico-manganese	tonnes	56 484	54 945	66 902	51 623	73 050
Ferro-silicon	tonnes	39 550	42 018	40 135	29 130	25 240
Other ferro-alloys	tonnes	14 541	10 013	11 834	10 741	8 033
Ingots, blooms, billets	tonnes	191 414	125 822	286 072	289 090	654 743
Scrap	tonnes	450 126	497 645	544 714	390 620	524 597
Kaolin	tonnes	525	87	475	2 332	10 946
Lead						
Unwrought	tonnes	984	3 124	(a) *2 000	1 662	1 614
Magnesite and magnesia						
Magnesite	tonnes	2 093	786	2 294	636	...
Magnesia	tonnes	341 126	395 689	404 448	385 312	394 826
Mercury	kilograms	1 188	2 437	0	6	—
Crude petroleum	tonnes	13 013	16 699	113 305	30 887	27 686
Phosphates	tonnes	...	26	48	438	2 603
Platinum metals						
Platinum & platinum metals	kilograms	257	310	308	8	22 600
Salt	tonnes	45 612	47 199	51 539	53 451	51 566
Silver						
Metal	kilograms	8 498	7 985	6 465	1 872	1 500
Sulphur and pyrites						
Sulphur, sublimed & precipitated	tonnes	44 610	48 534	65 648	60 776	63 019
Talc	tonnes	1 322	1 205	...	1 051	9
Tungsten						
Metal	tonnes	15	11	...	16	66
Zinc						
Unwrought	tonnes	...	...	...	3 522	5 232
Unwrought alloys	tonnes	69	311	5 977	3 618	14 053

Note(s):-

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

(b) Including anthracite

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	188 874	208 515	294 267	682 608	665 844
Aluminium and bauxite						
Bauxite	tonnes	8 211	8 300	7 991	3 669	5 886
Alumina	tonnes	221 205	253 825	366 784	307 756	314 576
Unwrought (a)	tonnes	53 060	49 945	45 913	31 683	31 521
Scrap	tonnes	11 508	10 593	13 701	12 567	8 550
Barytes	tonnes	1 312	956	927	814	872
Bentonite and fuller's earth						
Bentonite	tonnes	4 008	3 912	6 040	6 863	6 916
Fuller's earth	tonnes	204	1 014	866	1 082	886
Bromine	kilograms	2 068	1 026	1 372	364	9 658
Cement						
Cement clinkers	tonnes	—	34 550	33 021	68 894	42 666
Portland cement	tonnes	82 114	113 926	85 834	88 403	98 625
Other cement	tonnes	2 320	3 379	19 636	49 619	56 418

Slovakia

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Chromium						
Ores & concentrates	tonnes	16 766	12 624	24 479	12 475	11 252
Metal	tonnes	103	179	2	55	11
Coal						
Anthracite	tonnes	8 875	...	...	111 906	38 147
Other coal	tonnes	4 621 134	(b) 4 944 486	(b) 5 181 166	5 231 562	4 411 685
Lignite	tonnes	710 943	805 556	717 562	700 503	877 582
Briquettes	tonnes	3 162	1 803	20 243	33 049	10 863
Copper						
Matte & cement	tonnes	170	104	758	4 342	1 071
Unwrought	tonnes	11 400	3 689	1 269	1 718	2 084
Scrap	tonnes	5 604	8 448	20 776	19 977	17 973
Diatomite	tonnes	1 283	1 067	865	675	698
Feldspar	tonnes	27 596	48 100	39 689	36 989	30 726
Fluorspar	tonnes	1 797	1 965	1 574	1 615	1 543
Gold						
Metal	kilograms	654	421	417	123	11 200
Graphite	tonnes	2 633	2 209	1 667	1 031	1 382
Gypsum						
Crude & calcined	tonnes	125 948	121 461	110 803	116 252	110 237
Iron ore	tonnes	4 990 546	5 704 522	2 745 925	5 510 508	6 406 019
Iron, steel and ferro-alloys						
Pig iron	tonnes	20 219	14 998	29 498	39 400	59 145
Sponge & powder	tonnes	15 318	11 704	11 141	13 832	24 994
Ferro-alloys	tonnes	31 332	36 038	35 878	44 534	54 482
Silicon metal	tonnes	6 496	7 593	8 199	6 279	5 416
Ingots, blooms, billets	tonnes	29 081	17 534	15 927	10 753	17 086
Scrap	tonnes	475 898	389 383	241 718	197 550	243 822
Kaolin	tonnes	111 841	88 513	76 440	94 705	100 551
Magnesite and magnesia	tonnes	32 571	31 606	27 698	23 379	31 227
Manganese						
Ores & concentrates	tonnes	186 061	176 511	257 331	273 270	308 417
Metal	tonnes	121	147	...	146	193
Mercury	kilograms	3 677	2 230	2 738	3 457	3 100
Nickel						
Unwrought	tonnes	94	79	199	264	71
Crude petroleum	tonnes	5 554 324	5 603 952	5 858 911	5 421 866	5 878 819
Phosphates	tonnes	1 388	441	2 954	5 421	494
Platinum metals						
Platinum & platinum metals	kilograms	231	61	1 885	125	174
Potash						
Potassic fertilisers	tonnes	39 452	30 582	36 256	28 913	32 302
Salt	tonnes	200 614	213 250	266 601	320 413	299 087
Sillimanite	tonnes	2 385	2 690	2 459	4 312	2 069
Silver						
Metal	kilograms	13 268	13 073	17 735	57 416	6 400
Sulphur and pyrites						
Sulphur	tonnes	18 738	7 439	3 582	3 669	3 454
Talc	tonnes	382	369	192	211	4 174
Tin						
Unwrought (a)	tonnes	800	1 091	2 034	2 610	2 246
Titanium						
Titanium minerals	tonnes	...	...	6 407	17 627	12 648
Oxides	tonnes	429	2 701	2 173	2 804	2 742
Zinc						
Unwrought (a)	tonnes	31 953	33 557	42 324	43 500	45 143

Note(s):-

(a) Including alloys

(b) Including anthracite

Slovenia

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	11 277 000	11 012 000	12 373 000	12 432 000	17 873 000
Crushed rock	tonnes	13 049 675	15 040 340	13 719 888	12 176 491	14 213 319
Primary aluminium	tonnes	87 600	109 800	120 700	138 500	139 600
Cement, finished	tonnes	1 178 000	1 370 000	1 186 000	1 200 000	*1 200 000
Coal						
Brown coal & lignite	tonnes	4 684 710	4 828 786	4 807 302	4 539 556	4 520 754
Crude steel	tonnes	481 000	541 000	566 000	583 000	627 000
Ferro-alloys						
Ferro-silicon	tonnes	*9 000	*12 000	*18 000	*11 000	*8 000
Lead, refined	tonnes	15 400	15 000	*15 000	15 000	15 000
Natural gas	million m ³	5 704	4 926	5 500	5 500	4 200
Salt	tonnes	5 200	3 632	2 852	803	1 624

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	92 618	137 354	166 176	221 830	324 830
Aluminium and bauxite						
Alumina	tonnes	11 760	18 072	24 277	205 606	237 366
Unwrought alloys	tonnes	77 362	101 446	124 069	123 555	133 005
Scrap	tonnes	12 329	11 619	14 971	21 103	27 584
Cement						
Cement clinkers	tonnes	2 163	7 589	18 577	58 765	21 440
Portland cement	tonnes	171 993	166 323	101 842	56 776	73 187
Other cement	tonnes	...	...	16 154	63 732	115 104
Coal						
Lignite	tonnes	—	...	1 959	6 881	29 794
Copper						
Scrap	tonnes	8 615	10 550	12 564	13 054	15 922
Gold						
Metal	kilograms	1 287	681	254	101	100
Waste & scrap	kilograms	—	1 012	1 649	—	3 700
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	31 083	34 420	37 714	51 410	49 356
Silicon metal	tonnes	40	188	1 608	252	3 006
Ingots, blooms, billets	tonnes	8 292	13 311	15 327	12 647	12 273
Scrap	tonnes	126 233	113 448	186 726	225 627	222 403
Lead						
Unwrought	tonnes	3 757	5 136	4 701	5 818	6 524
Lithium						
Carbonate	tonnes	68	64	89	96	96
Manganese						
Metal	tonnes	104	185	143	2 584	228
Mercury	kilograms	1 312	15 826	7 327	1 395	0
Nickel						
Unwrought (a)	tonnes	262	116	144	117	118
Phosphates	tonnes	...	...	...	189 207	140 281
Platinum metals						
Platinum & platinum metals	kilograms	919	817	1 083	3	200
Salt	tonnes	4 400	4 814	5 253	8 034	20 702
Silver						
Metal	kilograms	1 367	3 948	2 699	6 382	3 100
Titanium						
Oxides	tonnes	38 484	35 655	38 497	44 123	50 755

Slovenia

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Zinc						
Scrap	tonnes	767	950	788	803	846
Zirconium						
Concentrates	tonnes	...	...	...	1 009	1 186

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	447 327	541 189	532 614	364 091	863 881
Aluminium and bauxite						
Bauxite	tonnes	35 020	51 683	44 560	47 935	51 064
Alumina	tonnes	239 473	252 351	264 319	450 273	480 454
Alumina hydrate	tonnes	23 219	22 878	14 131	23 581	24 102
Unwrought	tonnes	51 670	63 688	57 362	73 137	48 337
Unwrought alloys	tonnes	33 274	40 332	43 403	46 782	60 484
Scrap	tonnes	13 262	13 676	27 390	47 381	50 865
Antimony						
Metal	tonnes	118	52	84	137	98
Asbestos	tonnes	...	...	10	25	...
Barytes	tonnes	1 075	931	896	845	1 044
Bentonite and fuller's earth	tonnes	4 122	4 322	3 591	3 639	4 870
Bismuth						
Metal	tonnes	54	42	43	69	66
Cement						
Cement clinkers	tonnes	16 279	95 002	61 151	1 343	11 970
Portland cement	tonnes	150 749	205 345	219 779	215 513	249 749
Other cement	tonnes	1 272	1 440	112	2 861	6 917
Chromium						
Ores & concentrates	tonnes	451	340	406	446	1 414
Metal	tonnes	10	26	31	122	97
Coal						
Hard coal (a)	tonnes	34 607	54 168	38 849	51 173	47 221
Lignite	tonnes	539 356	488 929	584 117	543 465	614 851
Cobalt						
Metal	tonnes	141	198	162	209	209
Copper						
Unwrought	tonnes	4 005	3 835	2 948	2 764	3 150
Scrap	tonnes	3 119	3 787	3 743	5 762	9 000
Diamond						
Industrial	carats	50 000	...	...	...	...
Dust	carats	£269 434	£201 810	£215 288	£148 431	£143 326
Diatomite	tonnes	446	450	730	846	738
Feldspar	tonnes	4 870	8 605	10 045	5 852	5 813
Fluorspar	tonnes	1 148	1 113	1 178	1 031	1 184
Gold						
Metal	kilograms	2 696	612	382	374	100
Waste & scrap	kilograms	...	256	363	4 219	1 600
Graphite	tonnes	115	155	155	112	161
Gypsum						
Crude	tonnes	68 242	48 336	39 062	29 388	31 312
Calcined	tonnes	6 421	11 349	7 429	7 429	8 167
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 851	19 260	27 783	32 217	70 254
Ferro-alloys	tonnes	32 616	34 959	44 254	71 299	66 110
Silicon metal	tonnes	4 059	6 483	10 171	6 393	9 945
Ingots, blooms, billets	tonnes	3 620	3 312	3 199	3 505	3 444
Scrap	tonnes	262 294	316 188	386 832	434 585	434 330
Kaolin	tonnes	27 112	29 449	28 782	25 928	24 389

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Lead						
Unwrought	tonnes	12 629	13 604	12 854	10 262	8 897
Scrap	tonnes	783	538	1 223	1 382	2 946
Lithium						
Oxides	tonnes	80	88	127	116	115
Magnesite and magnesia	tonnes	9 377	9 732	9 560	9 899	8 478
Manganese						
Metal	tonnes	154	152	296	316	435
Molybdenum						
Ores & concentrates	tonnes	0	42	524	5 674	700
Nickel						
Unwrought (b)	tonnes	1 595	992	959	931	874
Phosphates	tonnes	...	...	...	189 208	140 455
Platinum metals						
Platinum & platinum metals	kilograms	1 018	1 033	430	12 262	300
Potash						
Potassic fertilisers	tonnes	99	1 725	1 751	1 704	2 465
Rare earths						
Metals	tonnes	71	80	107	139	96
Salt	tonnes	128 212	155 881	178 531	207 314	232 017
Silver						
Metal	kilograms	35 827	36 253	307 045	45 584	19 700
Sulphur and pyrites						
Pyrites	tonnes	426	399	375	400	463
Sulphur	tonnes	49 560	46 289	49 649	58 669	58 159
Talc	tonnes	4 706	5 251	5 628	5 383	5 297
Titanium						
Titanium minerals	tonnes	7 805	24 652	11 610	21 054	22 825
Metal	tonnes	127	118	300	614	392
Oxides	tonnes	2 936	3 219	3 033	3 157	3 153
Vanadium						
Metal	tonnes	27	22	21	89	25
Zinc						
Unwrought (b)	tonnes	18 031	19 925	21 146	21 740	29 435
Zirconium						
Concentrates	tonnes	440	529	416	625	443

Note(s):-

(a) Including anthracite

(b) Including alloys

Spain

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	97 857 003	118 746 034	113 947 729	115 000 000	*120 000 000
Crushed rock	tonnes	237 379 504	254 100 000	273 555 490	280 000 000	*295 000 000
Alumina	tonnes (Al ₂ O ₃ content)	1 350 000	1 380 000	*1 400 000	*1 400 000	*1 400 000
Primary aluminium	tonnes	380 100	389 100	397 500	395 000	367 400
Barytes	tonnes	50 071	44 660	40 776	44 643	45 000
Bentonite and fuller's earth						
Bentonite	tonnes	123 457	103 174	156 760	162 333	*160 000
Attapulgite	tonnes	22 918	18 975	20 796	20 565	*20 000
Sepiolite	tonnes	564 610	548 728	655 346	718 364	...
Bromine	kilograms	*100 000	*100 000	*100 000	*100 000	*100 000
Cement, finished	tonnes	42 417 253	44 746 757	46 595 560	50 300 000	54 000 000
Coal						
Anthracite	tonnes	4 399 365	3 857 364	3 692 220	3 888 838	3 700 815
Bituminous	tonnes	5 349 027	5 547 150	5 220 407	4 664 589	4 536 884
Sub-bituminous	tonnes	3 537 710	3 182 572	3 426 001	3 354 014	3 101 930
Lignite	tonnes	8 726 121	7 977 546	8 146 908	7 587 113	6 108 481
Cobalt, mine	tonnes (metal content)	...	...	...	...	...
Copper, mine	tonnes (metal content)	1 248	635	1 308	7 358	8 700
Copper, smelter	tonnes	298 057	290 282	224 249	284 215	263 662
Copper, refined	tonnes	312 145	293 495	228 466	313 105	299 146
Diatomite (a)	tonnes	53 558	57 934	33 799	44 335	40 000
Feldspar	tonnes	548 964	563 580	552 507	650 061	670 000
Fluorspar	tonnes	141 434	139 266	145 694	144 126	146 946
Gold, mine	kilograms (metal content)	5 559	5 417	5 248	2 145	1 565
Gypsum	tonnes	11 218 410	11 366 375	12 533 972	12 500 000	*12 500 000
Iron ore	tonnes	24 489	571	10 879	—	—
Pig iron	tonnes	3 973 000	3 645 000	4 036 000	4 160 000	3 396 000
Crude steel	tonnes	16 408 000	16 407 000	17 700 000	17 826 000	18 391 000
Ferro-alloys						
Ferro-manganese	tonnes	33 218	*35 000	*35 000	*35 000	*35 000
Ferro-silico-manganese	tonnes	103 494	*100 000	*100 000	*100 000	*100 000
Ferro-silicon	tonnes	56 994	*60 000	*60 000	*60 000	*60 000
Silicon metal	tonnes	26 071	*25 000	*25 000	*25 000	*25 000
Kaolin (b)	tonnes	419 483	427 193	437 990	456 000	450 000
Lead, mine	tonnes (metal content)	6 171	1 765	—	—	—
Lead, refined	tonnes	115 552	99 100	105 600	110 000	131 000
Lithium minerals						
Lepidolite	tonnes	6 800	6 333	3 226	4 000	6 000
Magnesite	tonnes	637 024	517 030	567 504	556 129	*550 000
Mercury	kilograms	726 139	745 260	—	—	—
Mica (c)	tonnes	11 783	11 800	7 825	4 043	...
Nickel, mine	tonnes (metal content)	—	—	—	5 380	6 400
Crude petroleum	tonnes	326 197	329 171	262 707	166 014	142 922
Natural gas	million m ³	553	268	370	174	118
Mine platinum group metals						
Platinum	kilograms (metal content)	...	...	...	...	...
Palladium	kilograms (metal content)	...	...	...	...	...
Potash						
Chloride	tonnes (K ₂ O content)	406 571	505 527	553 210	550 000	437 000
Salt						
Rock salt	tonnes	2 559 760	2 562 832	2 656 904	2 894 526	(d) 4 000 000
Sea salt	tonnes	1 234 679	1 327 108	1 227 625	1 368 960	...
Other salt	tonnes	97 945	97 730	108 733	125 836	...
Silver, mine	kilograms (metal content)	12 792	2 173	3 583	5 227	*5 300
Strontium minerals	tonnes	171 293	152 383	206 001	336 630	272 000
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	544 000	560 000	488 000	541 000	547 000
Recovered (f)	tonnes (sulphur content)	140 000	145 000	145 000	...	...
Talc						
Talc	tonnes	108 312	101 739	107 829	110 015	100 000
Pyrophyllite	tonnes	...	900	700	700	...

Production continued

Commodity	Units	2002	2003	2004	2005	2006
Uranium, mine	tonnes (metal content)	—	—	—	—	—
Wollastonite	tonnes	...	...	...	30 000	30 000
Zinc, mine	tonnes (metal content)	69 926	15 140	—	—	—
Slab zinc	tonnes	503 000	519 000	525 000	501 400	502 800

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) Salt; all forms

(e) From metal sulphide processing

(f) From petroleum refining and/or natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 724 911	1 647 138	1 694 285	1 546 315	2 489 305
Aluminium and bauxite						
Bauxite	tonnes	3 936	2 521	4 159	3 821	3 647
Alumina	tonnes	179 478	369 353	491 808	561 125	511 992
Alumina hydrate	tonnes	11 685	214 263	241 910	264 829	258 854
Unwrought	tonnes	2 429	915	1 024	3 002	8 245
Unwrought alloys	tonnes	68 484	87 356	102 146	111 992	128 262
Scrap	tonnes	37 236	41 646	35 021	36 688	41 923
Antimony						
Metal	tonnes	10	41	409	13	21
Oxide	tonnes	934	622	706	859	2 031
Barytes	tonnes	44 570	37 141	33 930	27 389	27 743
Bentonite and fuller's earth						
Bentonite	tonnes	63 120	74 277	80 410	75 450	73 767
Sepiolite	tonnes	581 737	507 584	501 988	506 019	464 939
Fuller's earth	tonnes	14 721	12 417	11 362	9 828	7 896
Bismuth						
Metal	tonnes	13	10	2	9	118
Bromine	kilograms	...	479	291	1 000	...
Cement						
Cement clinkers	tonnes	45 657	18 350	9 491	13 259	28 809
Portland cement	tonnes	1 700 683	1 585 078	1 681 953	1 713 572	1 386 652
Other cement	tonnes	92 852	100 272	59 696	51 340	43 262
Chromium						
Ores & concentrates	tonnes	1 040	947	2 113	1 314	1 908
Metal	tonnes	2 679	1 126	905	709	990
Coal						
Anthracite	tonnes	12 173	47 185	48 710	49 563	74 826
Other coal	tonnes	6 384	7 904	14 624	8 208	135 401
Cobalt						
Metal	tonnes	16	14	35	7	22
Oxides	tonnes	122	8	33	59	30
Copper						
Ores & concentrates	tonnes	6 756	2 682	4 327	14 434	5 835
Unwrought, unrefined	tonnes	21 126	37 437	50 901	62 269	45 906
Unwrought, refined	tonnes	23 999	46 677	32 366	44 365	38 205
Unwrought alloys	tonnes	7 124	9 747	11 724	9 810	10 590
Scrap	tonnes	72 157	62 879	77 850	99 600	84 570
Diamond						
Unsorted	carats	...	£515 000	£792 000	£673 000	£531 000
Gem, cut	carats	£3 291 000	£2 606 000	£1 855 000	£5 275 000	£61 119 000
Industrial	carats	£613 000	£245 000	£212 000	£325 000	£331 000
Dust	carats	615 000	385 000	3 765 000	3 760 000	210 000
Diatomite	tonnes	6 829	5 385	5 278	6 694	6 118

Spain

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Feldspar	tonnes	79 520	65 385	71 993	66 427	77 348
Fluorspar	tonnes	1 106	1 745	2 221	4 434	10 518
Gold						
Metal	kilograms	3 867	4 793	6 490	3 520	3 679
Waste & scrap	kilograms	1 126	784	2 908	38	2 636
Graphite	tonnes	8 521	9 288	27 634	11 972	6 356
Gypsum						
Crude	tonnes	2 818 090	2 732 211	2 820 367	3 228 806	3 568 327
Calcined	tonnes	517 466	473 180	470 437	391 274	306 791
Iodine	kilograms	115 000	27 811	31 156	21 089	7 356
Iron ore						
Burnt pyrites	tonnes	189 404	105 203	171 292	230 985	90 432
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 177	2 751	3 258	12 709	4 202
Sponge & powder	tonnes	3 920	4 447	4 914	4 397	4 030
Ferro-chrome	tonnes	472	369	551	775	1 024
Ferro-manganese	tonnes	73 506	62 260	82 733	101 850	91 018
Ferro-silico-manganese	tonnes	29 297	44 214	40 130	42 916	32 806
Ferro-molybdenum	tonnes	326	342	60	331	317
Ferro-silicon	tonnes	14 730	13 140	19 332	11 843	7 759
Other ferro-alloys	tonnes	750	891	558	992	493
Silicon metal	tonnes	17 621	11 035	13 254	16 742	16 566
Ingots, blooms, billets	tonnes	241 944	182 247	130 079	118 414	114 897
Scrap	tonnes	93 970	103 413	205 298	140 200	137 273
Kaolin	tonnes	159 759	172 414	154 667	192 735	213 955
Lead						
Ores & concentrates	tonnes	13	5 057	6 057	2	29
Unwrought	tonnes	9 458	6 219	8 301	9 805	7 830
Scrap	tonnes	6 797	7 028	6 399	9 128	6 460
Lithium						
Carbonate	tonnes	639	373	3 157	1 123	554
Magnesite and magnesia						
Magnesite	tonnes	24 152	23 640	25 557	901	19 635
Magnesia	tonnes	154 661	158 844	185 811	189 005	179 046
Manganese						
Ores & concentrates	tonnes	1 208	855	989	776	1 336
Metal	tonnes	5 727	4 791	6 117	6 651	5 827
Mercury	kilograms	820 527	836 784	596 739	581 653	463 954
Mica	tonnes	2 001	3 996	3 075	2 591	4 457
Nickel						
Ores & concentrates	tonnes	...	...	...	85 203	95 377
Unwrought (a)	tonnes	609	126	177	572	795
Scrap	tonnes	208	420	363	528	910
Platinum metals						
Platinum & platinum metals	kilograms	285	104	1 054	152	363
Waste & scrap	kilograms	253	7 479	1 893	2 892	290
Potash						
Sulphate	tonnes	15 635	11 628	3 958	2 832	1 245
Chloride	tonnes	350 315	502 348	675 140	514 042	201 242
Rare earths						
Ferro-cerium & other pyrophoric alloys	tonnes	85	1	2	3	1
Salt	tonnes	617 170	695 177	744 750	750 180	743 390
Silver						
Metal	kilograms	51 246	115 059	43 448	11 665	7 915
Sulphur and pyrites						
Sulphur, crude	tonnes	39 389	29 959	45 034	32 557	(b) 76 771
Sulphur, refined	tonnes	13 476	12 746	8 704	13 133	...
Sulphur, sublimed & precipitated	tonnes	69	575	79	124	338
Tin						
Unwrought (a)	tonnes	738	179	205	139	120
Scrap	tonnes	1 169	198	221	435	408
Titanium						
Metal	tonnes	376	697	483	903	2 005
Oxides	tonnes	73 320	70 052	85 867	83 905	85 307
Talc	tonnes	67 921	67 748	60 832	56 493	47 142

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Tungsten						
Metal	tonnes	109	158	141	77	59
Zinc						
Ores & concentrates	tonnes	29 661	33 913	37 986	67 420	31 416
Unwrought	tonnes	79 286	245 702	294 548	333 966	270 233
Unwrought alloys	tonnes	42 647	75 497	54 670	32 673	87 073
Scrap	tonnes	4 577	3 561	5 125	11 981	7 946
Zirconium						
Concentrates	tonnes	7 852	13 669	10 844	9 805	9 811
Metal	tonnes	122	602	989	820	110

Note(s):-

(a) Including alloys

(b) Including refined

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	1 073 979	1 156 484	1 190 670	1 305 835	762 652
Aluminium and bauxite						
Bauxite	tonnes	2 887 349	2 781 769	3 329 441	3 224 101	3 007 043
Alumina	tonnes	53 469	50 403	55 184	58 627	56 961
Alumina hydrate	tonnes	19 509	14 595	30 429	43 246	49 725
Unwrought	tonnes	55 894	116 742	91 382	110 257	95 436
Unwrought alloys	tonnes	166 771	166 538	235 123	223 627	303 607
Scrap	tonnes	70 908	66 466	86 553	99 459	103 839
Antimony						
Ores & concentrates	tonnes	145	153	105	108	175
Metal	tonnes	2 314	1 516	2 270	1 881	1 596
Oxide	tonnes	544	519	5 656	808	984
Arsenic						
Metallic arsenic	tonnes	136	114	92	112	143
Asbestos	tonnes	3 085	130	192	23	20
Barytes	tonnes	51 952	50 596	59 378	47 923	50 743
Bentonite and fuller's earth						
Bentonite	tonnes	72 294	68 776	60 709	83 784	82 645
Fuller's earth	tonnes	1 067	488	271	238	159
Bismuth						
Metal	tonnes	139	188	206	179	297
Bromine	kilograms	166 487	122 194	73 493	53 000	82 351
Cadmium						
Metal	tonnes	4	23	22	2	19
Oxide	tonnes	70	29	28	53	17
Cement						
Cement clinkers	tonnes	4 646 090	5 897 219	6 266 470	7 852 531	9 108 499
Portland cement	tonnes	3 155 122	2 606 300	2 549 086	2 845 856	2 771 668
Other cement	tonnes	36 947	54 726	21 527	20 031	40 164
Chromium						
Ores & concentrates	tonnes	2 585	5 799	3 947	10 262	5 906
Metal	tonnes	666	921	1 519	1 308	1 830
Coal						
Anthracite	tonnes	1 729 758	2 015 985	2 376 019	2 534 019	2 508 261
Other coal	tonnes	22 792 868	19 537 014	22 098 156	22 222 316	21 196 872
Cobalt						
Metal	tonnes	131	171	181	158	180
Oxides	tonnes	1 436	1 401	1 249	1 352	1 254
Copper						
Ores & concentrates	tonnes	1 057 377	1 052 115	776 980	1 040 099	1 100 338
Unwrought, unrefined	tonnes	9 150	15 283	2 488	312	2 631
Unwrought, refined	tonnes	28 095	33 781	74 277	69 039	62 982
Unwrought alloys	tonnes	7 256	4 444	5 254	4 458	5 898
Scrap	tonnes	83 664	57 315	112 934	84 824	89 252

Spain

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Diamond						
Unsorted	carats	£4 900 000	£4 602 000	£5 431 000	£6 908 000	£4 616 000
Gem, cut	carats	£25 162 000	£25 111 000	£41 732 000	£37 408 000	£47 084 000
Industrial	carats	£1 674 000	£1 809 000	£1 412 000	£1 421 000	£2 701 000
Dust	carats	3 435 000	5 545 000	...	8 490 229	8 750 000
Diatomite	tonnes	4 442	10 575	7 004	5 186	7 281
Feldspar	tonnes	593 452	760 473	955 039	1 231 861	1 422 514
Fluorspar	tonnes	17 878	8 538	15 006	8 575	29 134
Gold						
Metal	kilograms	26 690	27 662	29 702	20 594	15 072
Waste & scrap	kilograms	818	411	5 018	139	233
Graphite	tonnes	8 119	7 363	9 402	8 334	10 143
Gypsum						
Crude	tonnes	51 797	65 152	43 004	47 585	59 656
Calcined	tonnes	38 659	142 719	14 462	32 078	20 440
Iodine	kilograms	796 000	784 718	710 814	781 787	790 641
Iron ore	tonnes	6 158 325	5 765 648	6 118 975	6 248 366	5 511 245
Iron, steel and ferro-alloys						
Pig iron	tonnes	397 194	434 682	593 588	806 327	793 050
Sponge & powder	tonnes	640 298	593 176	670 063	516 423	641 804
Ferro-chrome	tonnes	229 425	579 714	221 156	200 543	253 172
Ferro-silico-chrome	tonnes	1 878	...	48	1 017	...
Ferro-silico-magnesium	tonnes	3 529	3 979	6 183	5 256	2 891
Ferro-manganese	tonnes	45 100	27 846	19 817	16 489	14 406
Ferro-silico-manganese	tonnes	28 237	56 110	75 061	66 531	42 326
Ferro-molybdenum	tonnes	3 486	4 042	3 456	6 327	10 473
Ferro-nickel	tonnes	51 626	60 141	58 664	59 113	92 147
Ferro-niobium	tonnes	335	348	491	906	515
Ferro-phosphorus	tonnes	2 051	2 020	2 072	2 036	1 771
Ferro-silicon	tonnes	43 230	56 258	56 736	39 623	52 215
Ferro-titanium & ferro-silico-titanium	tonnes	496	1 017	1 212	1 880	796
Ferro-vanadium	tonnes	971	1 050	1 077	824	515
Other ferro-alloys	tonnes	9 865	6 818	11 175	12 821	9 248
Silicon metal	tonnes	4 528	3 677	5 660	4 160	2 837
Ingots, blooms, billets	tonnes	1 062 109	1 524 971	1 495 840	1 219 342	1 601 769
Scrap	tonnes	5 533 584	6 389 902	7 093 195	6 975 101	7 437 224
Kaolin	tonnes	792 920	999 504	1 209 303	1 366 226	1 506 142
Lead						
Unwrought	tonnes	178 929	129 925	154 828	174 618	147 423
Scrap	tonnes	19 914	21 943	27 866	30 499	30 625
Lithium						
Oxides	tonnes	357	436	329	480	573
Carbonate	tonnes	1 046	983	759	1 553	828
Magnesite and magnesia						
Magnesite	tonnes	1 303	3 608	2 901	2 348	3 937
Magnesia	tonnes	101 620	367 117	102 418	103 747	88 898
Manganese						
Ores & concentrates	tonnes	431 720	437 088	575 518	415 959	393 476
Metal	tonnes	8 174	10 569	9 786	10 537	9 165
Mercury	kilograms	318 263	350 266	301 097	572 872	628 737
Mica	tonnes	5 447	1 810	1 641	1 917	1 484
Molybdenum						
Ores & concentrates	tonnes	4 226	3 917	3 805	3 317	4 584
Metal	tonnes	91	45	30	31	163
Nickel						
Unwrought (a)	tonnes	32 795	27 346	28 234	28 635	29 345
Oxides	tonnes	306	225	210	176	127
Crude petroleum	tonnes	57 489 130	57 578 507	59 343 873	59 510 408	59 203 359
Phosphates	tonnes	1 805 229	1 790 138	1 800 329	1 768 425	1 556 734
Platinum metals						
Platinum & platinum metals	kilograms	3 311	1 612	1 402	13 799	1 506
Waste & scrap	kilograms	32	31	298	122	526

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Potash						
Sulphate	tonnes	71 719	37 444	48 174	47 561	10 412
Chloride	tonnes	245 620	249 881	269 278	243 017	224 320
Other potassic fertilisers	tonnes	9 304	10 432	22 019	4 667	86
Rare earths						
Rare earth compounds	tonnes	523	548	692	824	828
Ferro-cerium & other pyrophoric alloys	tonnes	28	87	...	8	...
Metals	tonnes	92	90	84	20	84
Salt	tonnes	42 431	47 011	36 494	111 449	37 632
Sillimanite	tonnes	13 581	15 782	15 262	27 308	22 102
Silver						
Ores & concentrates	kilograms	75 862	59 205	54 295	59 653	56 421
Metal	kilograms	307 864	133 844	158 529	106 596	134 673
Sulphur and pyrites						
Sulphur, crude	tonnes	205 049	210 794	220 662	182 318	(b) 133 552
Sulphur, refined	tonnes	8 219	5 936	13 582	5 778	...
Sulphur, sublimed & precipitated	tonnes	238	753	533	243	296
Talc	tonnes	65 691	68 760	80 626	80 726	87 578
Tantalum and niobium						
Tantalum	tonnes	...	30	4	62	10
Tin						
Concentrates	tonnes	225	101	160	137	29
Unwrought	tonnes	6 967	8 072	7 860	7 109	7 716
Unwrought alloys	tonnes	58	90	292	170	220
Scrap	tonnes	4 842	2 400	2 111	1 919	1 576
Titanium						
Ilmenite	tonnes	153 688	128 692	172 431	121 204	159 090
Other titanium minerals	tonnes	2 315	2 296	2 316	1 746	1 807
Metal	tonnes	3 241	2 974	3 722	3 862	5 782
Oxides	tonnes	107 418	100 814	116 397	117 203	112 778
Tungsten						
Metal	tonnes	83	179	259	134	556
Carbide	tonnes	64	48	59	38	35
Vanadium						
Pentoxide	tonnes	81	36	118	62	71
Zinc						
Ores & concentrates	tonnes	901 359	1 096 292	917 968	1 090 022	1 188 067
Unwrought	tonnes	4 939	7 448	3 862	8 203	7 577
Unwrought alloys	tonnes	10 398	12 477	16 601	17 858	18 933
Scrap	tonnes	2 506	4 103	4 062	3 927	4 996
Zirconium						
Concentrates	tonnes	145 970	142 949	143 860	153 619	149 710
Metal	tonnes	41	60	94	56	55

Note(s):-

(a) Including alloys

(b) Including refined

Sweden

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	24 537 500	21 650 322	22 647 111	21 755 752	21 488 963
Crushed rock	tonnes	46 771 631	49 326 880	54 737 031	62 313 089	70 517 845
Primary aluminium	tonnes	100 125	100 707	100 591	102 107	101 668
Cement clinker	tonnes	2 364 724	2 235 138	2 385 509	2 457 245	*2 500 000
Cement, finished	tonnes	2 764 954	2 544 647	2 712 810	2 731 000	...
Copper, mine	tonnes (metal content)	71 991	83 143	82 415	87 068	86 746
Copper, smelter	tonnes	186 984	175 475	174 459	153 399	194 194
Copper, refined	tonnes	224 402	214 181	235 620	223 482	229 241
Feldspar	tonnes	37 000	44 000	38 000	30 000	24 000
Gold, mine	kilograms (metal content)	5 757	5 900	6 564	6 564	6 848
Iron ore	tonnes	20 281 000	21 498 000	22 272 000	23 255 000	23 302 000
Pig iron	tonnes	3 815 000	3 816 000	3 992 000	3 844 000	3 701 000
Crude steel	tonnes	5 753 300	5 707 300	5 978 100	5 725 700	5 466 100
Ferro-alloys						
Ferro-chrome	tonnes	118 800	106 100	127 300	127 500	136 400
Ferro-silicon	tonnes	21 500	17 100	18 500	9 800	4 600
Lead, mine	tonnes (metal content)	42 954	50 962	54 347	60 445	55 644
Lead, refined	tonnes	63 451	73 340	73 548	72 600	71 000
Selenium metal	tonnes	118	107	131	122	*120
Silver, mine	kilograms (metal content)	320 823	340 701	319 563	309 933	292 255
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	177 600	180 200	185 800	180 000	180 000
Recovered (b)	tonnes (sulphur content)	51 065	62 454	62 238	59 839	68 391
Talc	tonnes	20 000	7 000	8 000	7 000	6 000
Zinc, mine	tonnes (metal content)	148 620	185 884	197 034	215 691	210 029

Note(s):-

(a) From metal sulphide processing

(b) From petroleum refining and/or natural gas

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	2 132 194	2 067 542	2 213 385	2 447 200	2 333 174
Aluminium and bauxite						
Alumina	tonnes	1 506	1 939	6 160	14 133	14 481
Unwrought	tonnes	2 529	101	22 096	9 390	910
Unwrought alloys	tonnes	78 675	75 903	105 752	88 311	112 575
Scrap	tonnes	70 721	109 170	79 433	69 166	67 879
Bentonite and fuller's earth						
Bentonite	tonnes	9 401	10 082	9 486	7 419	9 539
Cadmium						
Oxide	tonnes	78	120	139	140	...
Cement						
Portland cement	tonnes	1 285 376	1 064 305	867 450	1 295 834	1 208 231
Other cement	tonnes	1 469	2 818	2 492	2 555	12 144
Chromium						
Metal	tonnes	...	...	75	55	105
Cobalt						
Metal	tonnes	146	117	127	127	110
Copper						
Unwrought, refined	tonnes	91 869	77 216	81 878	99 824	86 726
Unwrought alloys	tonnes	6 486	7 104	5 040	5 247	6 443
Scrap	tonnes	34 747	35 982	44 366	43 816	45 456
Diatomite	tonnes	579	491	492	4 423	568
Feldspar	tonnes	25 400	23 847	23 752	16 515	15 880

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Fluorspar	tonnes	5 998	8 981	8 702	8 206	7 450
Gold						
Metal	kilograms	12 000	10 000	19 000	18 000	19 000
Waste & scrap	kilograms	24 000	...	20 000	1 000	32 000
Graphite	tonnes	600	302	260	195	230
Gypsum						
Crude & calcined	tonnes	6 350	5 993	7 343	7 832	9 954
Iodine	kilograms	2 000	4 000	—	4 000	0
Iron ore	tonnes	14 233 450	15 559 741	17 336 835	17 597 351	18 409 475
Iron, steel and ferro-alloys						
Pig iron	tonnes	30 079	118 378	116 550	99 496	145 733
Sponge & powder	tonnes	11 356	9 311	12 306	9 064	15 238
Ferro-chrome	tonnes	617	1 070	1 830	1 801	1 973
Ferro-silico-magnesium	tonnes	392	479	235	60	739
Ferro-manganese & Fe-Si-Mn	tonnes	6 903	1 159	1 605	3 456	2 584
Ferro-molybdenum	tonnes	745	71	87	158	157
Ferro-phosphorus	tonnes	1 203	463	281	294	706
Ferro-silicon	tonnes	736	182	441	731	1 968
Ferro-vanadium	tonnes	427	27	99	249	61
Other ferro-alloys	tonnes	6 903	1 527	2 796	1 525	2 734
Silicon metal	tonnes	6 742	2 790	6 387	6 049	2 321
Ingots, blooms, billets	tonnes	297 913	166 876	367 562	232 958	116 880
Scrap	tonnes	722 509	708 654	741 254	863 474	847 179
Kaolin	tonnes	8 200	8 791	15 544	18 473	15 735
Lead						
Ores & concentrates	tonnes	63 204	59 340	60 105	62 155	50 854
Unwrought	tonnes	61 079	71 217	68 215	70 042	76 777
Scrap	tonnes	424	237	554	307	703
Manganese						
Metal	tonnes	425	352	196	143	176
Mica	tonnes	89	51	58	83	64
Nickel						
Unwrought	tonnes	1 887	384	126	112	514
Scrap	tonnes	1 661	1 096	1 138	4 369	5 743
Oxides	tonnes	142	181	317	291	349
Phosphates	tonnes	94	51	5	392	969
Platinum metals						
Platinum & platinum metals	kilograms	£610 000	£280 000	£1 037 000	£663 000	£1 514 000
Waste & scrap	kilograms	27 536	27 000	29 000	25 000	280 000
Potash						
Sulphate	tonnes	136 917	127 687	70 066	54 841	10 191
Salt	tonnes	20 208	156 140	10 354	8 783	9 357
Silver						
Metal	kilograms	408 000	433 000	473 000	421 000	368 000
Sulphur and pyrites						
Sulphur	tonnes	493	9 572	4 542	16 883	12 071
Sulphur, sublimed & precipitated	tonnes	2	0	139	239	5 719
Talc	tonnes	14 370	8 061	9 388	10 080	7 556
Tin						
Unwrought (a)	tonnes	313	238	261	217	250
Scrap	tonnes	178	88	161	45	43
Titanium						
Metal	tonnes	1 256	1 004	1 737	1 955	1 461
Oxides	tonnes	11 058	11 713	13 912	14 306	20 409
Tungsten						
Metal	tonnes	364	334	102	414	296
Carbide	tonnes	385	68	114	37	491
Zinc						
Ores & concentrates	tonnes	283 701	305 058	379 155	372 925	402 219
Unwrought (a)	tonnes	629	496	280	165	1 143
Scrap	tonnes	23 833	42 715	21 598	16 134	29 015

Note(s):-

(a) Including alloys

Sweden

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	838 286	615 470	729 992	810 385	1 135 048
Aluminium and bauxite						
Bauxite	tonnes	1 920	3 317	28 758	3 171	2 846
Alumina	tonnes	172 761	196 834	205 734	191 504	201 496
Alumina hydrate	tonnes	55 379	54 825	66 156	62 549	56 535
Unwrought	tonnes	13 991	21 584	29 493	17 916	7 959
Unwrought alloys	tonnes	106 217	97 276	120 732	117 202	135 270
Scrap	tonnes	18 450	16 255	24 082	24 309	32 198
Antimony						
Metal	tonnes	176	269	234	199	337
Oxide	tonnes	485	232	328	377	296
Arsenic						
Metallic arsenic	tonnes	19	17	13	6	...
Barytes	tonnes	1 927	1 848	2 854	4 610	4 876
Bentonite and fuller's earth						
Bentonite	tonnes	125 852	140 176	82 414	48 564	125 491
Bismuth						
Metal	tonnes	12	8	13	11	8
Bromine	kilograms	...	0	5 000	13 000	9 000
Cadmium						
Metal	tonnes	150	402	330	282	388
Oxide	tonnes	—	26	71	35	...
Cement						
Portland cement	tonnes	208 113	209 882	218 928	242 326	249 670
Other cement	tonnes	25 151	27 286	27 286	34 597	41 176
Chromium						
Ores & concentrates	tonnes	280 000	215 000	457 000	240 000	315 000
Metal	tonnes	1 265	823	1 903	1 150	1 639
Coal						
Anthracite	tonnes	11 078	99 008	7 304	13 013	28 506
Other coal	tonnes	2 652 007	3 081 407	3 059 218	3 187 798	3 003 919
Briquettes	tonnes	...	8 768	4 335	8 443	27 164
Cobalt						
Metal	tonnes	599	663	711	660	743
Copper						
Ores & concentrates	tonnes	349 409	300 566	340 858	311 085	267 753
Unwrought, unrefined	tonnes	36	3	2	15 452	35 496
Unwrought, refined	tonnes	36 976	48 468	34 912	40 106	41 036
Unwrought alloys	tonnes	4 622	2 947	2 762	2 926	3 944
Scrap	tonnes	43 544	52 091	76 672	50 940	54 483
Diamond						
Unsorted	carats	£156 000	£203 000	£309 000	£220 000	£143 000
Gem, cut	carats	£2 337 000	£3 456 000	£3 205 000	£2 406 000	£2 306 000
Industrial	carats	£51 000	£30 000	£63 000	£258 000	£184 000
Dust	carats	£2 554 000	£2 374 000	£2 823 000	£2 573 000	£2 259 000
Diatomite	tonnes	3 913	4 143	5 475	5 096	6 095
Feldspar	tonnes	6 765	5 960	7 019	9 387	4 029
Fluorspar	tonnes	16 978	19 117	14 640	15 790	16 176
Gold						
Metal	kilograms	£7 655 000	£8 382 000	£8 498 000	£8 625 000	£10 124 000
Waste & scrap	kilograms	£1 126 000	—	...	£180 000	£7 000
Graphite	tonnes	1 022	1 428	1 473	1 539	1 252
Gypsum						
Crude	tonnes	211 432	269 711	269 060	206 972	263 582
Calcined	tonnes	82 831	103 481	160 784	97 746	166 829
Iodine	kilograms	5 000	5 000	1 000	2 000	2 000
Iron ore						
Iron ore	tonnes	115 528	110 920	102 101	100 072	82 203
Burnt pyrites	tonnes	41 970	29 658	36 351	6 095	...

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	26 215	24 894	29 369	38 223	43 492
Sponge & powder	tonnes	2 667	2 746	3 074	2 091	7 346
Ferro-chrome	tonnes	109 391	85 830	72 926	86 040	86 160
Ferro-silico-chrome	tonnes	2 789	1 094	2 521	2 030	1 370
Ferro-silico-magnesium	tonnes	1 195	1 060	932	914	763
Ferro-manganese	tonnes	33 238	37 190	32 782	43 005	49 295
Ferro-silico-manganese	tonnes	13 357	19 493	17 887	18 995	20 566
Ferro-molybdenum	tonnes	3 728	3 797	4 369	5 364	4 976
Ferro-nickel	tonnes	8 765	8 738	948	7 431	8 076
Ferro-niobium	tonnes	747	732	809	1 156	1 504
Ferro-phosphorus	tonnes	1 553	739	920	314	433
Ferro-silicon	tonnes	41 278	41 098	38 534	48 950	37 095
Ferro-titanium & ferro-silico-titanium	tonnes	1 709	1 405	1 627	3 212	1 681
Ferro-tungsten & ferro-silico-tungsten	tonnes	183	321	564	195	119
Ferro-vanadium	tonnes	1 037	1 059	1 375	1 316	1 202
Other ferro-alloys	tonnes	5 822	4 519	6 534	5 888	6 293
Silicon metal	tonnes	10 639	6 316	10 542	10 832	7 531
Ingots, blooms, billets	tonnes	426 018	495 734	491 102	294 616	108 821
Scrap	tonnes	429 341	351 024	271 041	254 358	279 956
Kaolin	tonnes	437 528	467 111	452 215	480 358	451 919
Lead						
Ores & concentrates	tonnes	15 073	19 693	26 142	5 085	10 476
Unwrought	tonnes	5 023	4 190	6 088	6 098	17 679
Scrap	tonnes	1 970	2 463	4 062	3 538	3 101
Lithium						
Oxides	tonnes	155	113	162	176	186
Carbonate	tonnes	179	186	208	259	215
Magnesite and magnesia						
Magnesia	tonnes	26 875	28 074	29 455	21 293	24 610
Manganese						
Ores & concentrates	tonnes	98	91	62	119	72
Metal	tonnes	6 660	3 618	2 641	2 632	2 380
Mercury	kilograms	4 004	3 022	4 000	3 000	6 000
Mica	tonnes	547	566	514	592	515
Molybdenum						
Ores & concentrates	tonnes	6 132	5 235	5 826	5 690	6 863
Metal	tonnes	219	252	458	280	139
Oxides	tonnes	791	784	594	392	1 133
Nickel						
Mattes, sinters etc.	tonnes	12 476	4 032	4 051	4 346	4 215
Unwrought	tonnes	24 982	25 423	27 687	26 931	28 101
Unwrought alloys	tonnes	863	857	1 076	1 324	1 414
Scrap	tonnes	18 399	12 543	10 523	8 946	9 158
Crude petroleum	tonnes	18 665 040	20 436 192	20 873 087	19 770 639	19 170 472
Phosphates	tonnes	66 930	18 346	129	156	4 275
Platinum metals						
Platinum & platinum metals	kilograms	£6 134 000	£6 531 000	£4 985 000	£6 513 000	£4 509 000
Waste & scrap	kilograms	265	339 000	273 000	577 000	618 000
Potash						
Sulphate	tonnes	4 755	884	2 819	4 911	10 191
Chloride	tonnes	44 086	33 748	68 457	43 106	44 941
Other potassic fertilisers	tonnes	2 285	9 862	4 409	1 119	4 109
Rare earths						
Rare earth compounds	tonnes	56	75	58	26	20
Metals	tonnes	39	48	56	41	37
Salt	tonnes	1 030 471	828 845	929 193	738 931	1 054 982
Sillimanite	tonnes	12 308	14 155	5 470	5 086	5 568
Silver						
Metal	kilograms	116 000	111 000	161 000	151 000	137 000
Sulphur and pyrites						
Pyrites	tonnes	386	291	699	319	557
Sulphur	tonnes	63 948	89 505	61 305	71 337	82 246
Sulphur, sublimed & precipitated	tonnes	5 010	5 632	2 693	16	23

Sweden

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Talc	tonnes	42 307	45 509	43 288	45 376	44 669
Tin						
Unwrought	tonnes	596	421	468	551	697
Unwrought alloys	tonnes	400	379	256	210	141
Scrap	tonnes	57	71	39	60	37
Titanium						
Titanium minerals	tonnes	439	320	389	300	911
Metal	tonnes	2 000	1 707	1 856	1 382	2 294
Oxides	tonnes	43 260	44 721	44 812	50 099	62 841
Tungsten						
Metal	tonnes	136	470	559	502	563
Carbide	tonnes	688	665	747	925	738
Vanadium						
Metal	tonnes	49	49	46	20	40
Zinc						
Unwrought	tonnes	25 562	22 320	29 682	29 847	25 763
Unwrought alloys	tonnes	12 145	13 496	18 009	16 812	20 325
Zirconium						
Concentrates	tonnes	424	480	564	588	750
Metal	tonnes	138	172	82	91	134

Switzerland

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	...	...	26 000 000	46 500 000	50 000 000
Crushed rock	tonnes	...	...	3 000 000	5 300 000	5 700 000
Primary aluminium	tonnes	40 224	43 865	44 879	44 800	12 000
Cement, finished	tonnes	3 771 000	3 613 000	3 851 000	4 022 000	*4 000 000
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	1 158 000	1 252 000
Lead, refined	tonnes	8 700	9 600	9 300	9 600	*9 600
Salt	tonnes	400 000	461 000	486 000	539 000	543 000

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	229 451	184 678	296 911	283 508	273 603
Aluminium and bauxite						
Unwrought (a)	tonnes	7 139	775	8 180	14 499	21 257
Scrap	tonnes	96 217	96 860	108 536	122 729	140 657
Cement						
Cement clinkers	tonnes	130 261	106 617	106 263	121 014	103 367
Portland cement	tonnes	12 942	14 396	33 524	46 939	23 437
Chromium						
Metal	tonnes	31	66	319	249	530
Cobalt						
Metal	tonnes	61	104	95	140	105
Copper						
Unwrought	tonnes	907	1 163	1 872	10 691	1 036
Scrap	tonnes	55 491	56 398	69 243	74 878	74 079
Diamond						
Gem, rough	carats	55 000	65 000	140 000	195 608	115 000
Gem, cut	carats	650 000	427 033	338 524	407 411	320 000
Industrial	carats	40 000	66 354	18 185	13 934	60 000
Dust	carats	81 580 000	95 290 000	120 790 000	126 190 000	128 180 000
Diatomite	tonnes	1 224	110	114	136	69
Gold						
Metal	kilograms	922 468	885 907	1 125 319	1 340 948	965 959
Waste & scrap	kilograms	16 868	14 039	55 166	2 823	2 802
Graphite	tonnes	516	745	335	326	225
Gypsum						
Crude	tonnes	1 709	44	158	7	14
Calcined	tonnes	1 667	1 680	1 002	1 088	1 144
Iodine	kilograms	360	1 116	5 228	4 179	1 342
Iron, steel and ferro-alloys						
Sponge & powder	tonnes	1 018	1 247	1 679	2 222	2 233
Ferro-alloys	tonnes	591	907	1 261	867	616
Ingots, blooms, billets	tonnes	31 317	51 008	51 639	83 219	88 289
Scrap	tonnes	412 341	451 452	539 629	561 972	582 567
Lead						
Unwrought	tonnes	7 160	7 086	5 407	4 657	7 966
Scrap	tonnes	2 565	2 267	1 320	2 932	3 124
Lithium						
Oxides	tonnes	53	78	80	78	69
Mercury	kilograms	36 900	7 793	316 631	171 790	87 136
Nickel						
Unwrought (a)	tonnes	105	125	49	73	154
Scrap	tonnes	587	880	1 106	1 403	1 669

Switzerland

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Platinum metals						
Platinum	kilograms	73 384	67 305	57 268	42 102	62 243
Palladium	kilograms	73 072	47 110	61 960	75 105	46 578
Other platinum metals	kilograms	829	203	1 703	2 047	292
Waste & scrap	kilograms	122 380	85 301	118 241	235 630	200 470
Salt	tonnes	28 394	52 482	41 044	30 461	62 318
Silver						
Metal	kilograms	1 306 190	1 544 676	1 085 657	1 044 080	930 397
Talc	tonnes	847	1 777	72	105	73
Tantalum and niobium						
Tantalum	tonnes	...	8	14	27	17
Tin						
Unwrought (a)	tonnes	25	112	72	29	160
Scrap	tonnes	60	73	107	157	130
Titanium						
Metal	tonnes	400	398	562	560	692
Oxides	tonnes	666	499	740	1 020	1 024
Tungsten						
Metal	tonnes	185	244	268	316	270
Zinc						
Scrap	tonnes	2 358	2 415	2 582	2 480	2 856

Note(s):-

(a) Including alloys

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	6 554 457	6 134 548	6 413 474	6 261 007	6 700 038
Aluminium and bauxite						
Bauxite	tonnes	7 653	5 881	8 066	9 929	5 901
Alumina	tonnes	81 002	93 357	87 235	88 358	21 431
Alumina hydrate	tonnes	17 953	15 340	16 945	16 823	18 333
Unwrought	tonnes	66 958	60 791	73 413	75 987	111 780
Unwrought alloys	tonnes	52 470	64 351	59 125	56 059	79 666
Scrap	tonnes	12 565	11 327	20 734	27 617	26 711
Antimony						
Ores & concentrates	tonnes	154	89	5 004	1 722	201
Metal	tonnes	52	50	93	58	56
Oxide	tonnes	720	927	1 174	1 026	1 141
Arsenic						
Metallic arsenic	tonnes	4	4	2	5	2
Barytes	tonnes	1 844	2 433	2 187	2 242	2 433
Bentonite and fuller's earth						
Bentonite	tonnes	21 128	20 540	20 027	20 861	24 407
Fuller's earth	tonnes	1 544	1 541	1 641	1 844	916
Bismuth						
Metal	tonnes	15	15	6	15	6
Cadmium						
Metal	tonnes	6	4	30	5	7
Cement						
Cement clinkers	tonnes	146 388	47 050	64 882	71 542	115 001
Portland cement	tonnes	198 607	319 539	313 292	352 409	380 862
Other cement	tonnes	56 272	41 949	58 671	48 309	49 317
Chromium						
Ores & concentrates	tonnes	525	716	671	624	1 080
Metal	tonnes	116	110	141	127	162
Coal						
Anthracite	tonnes	6 828	6 146	7 396	6 640	7 978
Other coal	tonnes	115 061	79 125	169 472	93 584	143 425
Lignite	tonnes	128	24	455	34 897	86 762

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Cobalt						
Metal	tonnes	342	291	361	423	408
Copper						
Unwrought	tonnes	5 899	5 206	6 779	4 734	4 843
Unwrought alloys	tonnes	3 300	3 496	4 481	3 897	4 695
Scrap	tonnes	8 406	9 469	11 881	9 937	7 641
Diamond						
Gem, rough	carats	75 000	80 344	144 707	194 997	120 000
Gem, cut	carats	850 000	642 870	820 021	1 130 984	845 000
Industrial	carats	1 160 000	213 535	56 907	100 142	50 000
Dust	carats	94 935 000	103 005 000	126 815 000	142 000 000	127 740 000
Diatomite	tonnes	3 534	5 425	11 204	3 291	3 157
Feldspar	tonnes	7 541	7 229	8 347	7 977	6 219
Fluorspar	tonnes	916	413	991	714	704
Gold						
Metal	kilograms	1 217 189	1 218 361	1 048 386	1 655 691	1 498 693
Waste & scrap	kilograms	48 626	32 454	52 053	72 764	104 957
Graphite	tonnes	918	863	395	652	722
Gypsum						
Crude	tonnes	64 517	50 760	64 677	76 460	87 964
Calcined	tonnes	72 876	75 394	81 971	88 511	92 787
Iodine	kilograms	14 000	27 226	7 428	7 949	11 133
Iron, steel and ferro-alloys						
Pig iron	tonnes	19 466	22 120	22 954	24 628	24 497
Sponge & powder	tonnes	6 163	6 792	7 631	9 035	8 900
Ferro-chrome	tonnes	978	1 504	1 161	1 203	1 306
Ferro-manganese	tonnes	7 567	7 406	7 884	9 033	10 423
Ferro-silico-manganese	tonnes	5 156	4 444	6 481	4 341	3 717
Ferro-silicon	tonnes	4 291	5 417	5 194	4 630	7 122
Other ferro-alloys	tonnes	1 198	1 070	1 203	1 602	1 435
Silicon metal	tonnes	1 168	716	694	1 135	1 164
Ingots, blooms, billets	tonnes	16 032	17 132	20 896	38 694	47 524
Scrap	tonnes	347 211	412 584	544 911	390 607	499 914
Kaolin	tonnes	37 298	45 012	41 350	37 368	41 481
Lead						
Unwrought	tonnes	5 943	6 047	7 831	8 067	9 185
Lithium						
Oxides	tonnes	97	89	89	81	112
Magnesite and magnesia						
Magnesite	tonnes	228	225	294	168	394
Magnesia	tonnes	4 521	5 744	6 538	6 708	7 506
Manganese						
Metal	tonnes	404	501	484	486	444
Mercury	kilograms	18 901	9 354	9 704	5 846	5 333
Mica	tonnes	289	357	426	601	1 151
Molybdenum						
Metal	tonnes	21	26	25	31	21
Nickel						
Unwrought (a)	tonnes	1 417	1 392	1 333	1 401	1 706
Crude petroleum	tonnes	4 869 479	4 551 511	5 086 184	4 744 965	5 413 010
Platinum metals						
Platinum	kilograms	56 039	69 111	47 742	51 377	76 842
Palladium	kilograms	106 412	54 805	96 530	46 565	126 416
Other platinum metals	kilograms	1 063	816	3 725	780	1 078
Waste & scrap	kilograms	49 569	129 698	161 433	156 229	172 679
Potash						
Sulphate	tonnes	2 496	2 621	2 170	3 325	4 215
Chloride	tonnes	23 053	15 792	19 185	18 971	18 811
Other potassic fertilisers	tonnes	3 983	3 721	3 039	3 411	2 555
Rare earths						
Rare earth compounds	tonnes	19	30	29	34	38
Salt	tonnes	7 692	13 984	9 299	48 114	19 300
Sillimanite	tonnes	246	253	315	413	463
Silver						
Ores & concentrates	kilograms	...	...	...	...	24 000
Metal	kilograms	1 028 138	746 184	1 082 664	1 484 207	1 306 866

Switzerland

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Sulphur and pyrites						
Pyrites	tonnes	239	207	117	76	69
Sulphur	tonnes	30 140	25 968	24 940	24 977	19 369
Sulphur, sublimed & precipitated	tonnes	93	193	120	61	50
Talc	tonnes	12 916	11 490	9 579	10 254	10 786
Tin						
Unwrought (a)	tonnes	893	803	726	909	1 042
Titanium						
Metal	tonnes	621	535	735	1 273	1 357
Oxides	tonnes	18 265	18 689	19 349	19 055	18 805
Tungsten						
Metal	tonnes	152	139	170	235	146
Zinc						
Unwrought	tonnes	21 073	11 730	14 577	13 045	12 189
Unwrought alloys	tonnes	3 796	3 798	3 194	2 601	2 214
Zirconium						
Metal	tonnes	115	85	86	117	29

Note(s):-

(a) Including alloys

Turkey

Production

Commodity	Units	2002	2003	2004	2005	2006
Bauxite	tonnes	287 403	364 306	365 836	356 480	771 227
Alumina	tonnes (Al ₂ O ₃ content)	152 869	160 675	169 991	112 558	140 089
Primary aluminium	tonnes	62 501	63 140	64 002	59 000	60 000
Antimony, mine	tonnes (metal content)	*150	*400	*700	*1 200	*1 200
Barytes	tonnes	106 943	119 648	134 504	70 925	*71 000
Bentonite and fuller's earth						
Bentonite	tonnes	559 224	831 146	643 153	582 735	*600 000
Sepiolite	tonnes	*10 000	*10 000	*10 000	*10 000	*10 000
Borates	tonnes	1 328 000	1 324 000	1 727 000	2 087 000	2 373 345
Cement clinker	tonnes	...	...	...	31 355 180	32 219 233
Cement, finished	tonnes	32 576 701	35 076 902	38 019 112	41 100 274	47 977 425
Chromium ores and concentrates	tonnes	326 390	281 783	436 639	688 377	457 893
Coal						
Anthracite	tonnes	3 312 690	3 090 458	2 842 952	2 785 505	3 070 793
Bituminous	tonnes	118 235	336 714	738 915	737 701	*740 000
Lignite	tonnes	49 626 612	43 749 420	43 754 159	60 867 574	61 005 688
Copper, mine	tonnes (metal content)	48 217	43 245	38 876	30 067	*30 000
Copper, smelter	tonnes	19 375	18 400	34 700	27 700	26 300
Copper, refined	tonnes	41 000	36 900	63 000	95 000	105 800
Feldspar	tonnes	1 766 387	1 862 310	1 983 336	2 331 971	*2 500 000
Fluorspar	tonnes	718	718	880	800	*800
Gold, mine	kilograms (metal content)	*4 500	5 370	3 260	—	2 205
Graphite	tonnes	1 393	942	*1 000	*1 100	*1 200
Gypsum	tonnes	264 038	196 668	250 099	*250 000	*250 000
Iron ore	tonnes	3 432 775	3 429 070	3 856 536	3 889 934	3 251 968
Pig iron	tonnes	5 003 000	5 693 764	5 835 889	5 398 500	2 846 280
Crude steel	tonnes	16 045 522	17 644 020	19 868 118	20 961 240	23 307 523
Ferro-alloys						
Ferro-chrome	tonnes	11 200	35 393	33 686	26 043	67 975
Ferro-silico-chrome	tonnes	7 245	6 805	5 526	6 695	7 310
Kaolin	tonnes	372 344	370 455	536 008	615 271	*600 000
Lead, mine	tonnes (metal content)	17 277	17 483	18 792	11 341	18 000
Lead, refined	tonnes	*9 000	*9 000	*9 000	*9 000	*9 000
Magnesite	tonnes	3 044 440	3 224 278	3 732 952	2 372 206	2 088 033
Manganese ore	tonnes	20 000	18 000	13 751	4 751	...
Nickel, mine	tonnes (metal content)	—	640	—	700	2 600
Perlite	tonnes	151 902	136 683	133 829	156 935	*160 000
Crude petroleum	tonnes	2 440 202	2 375 082	2 275 529	2 280 764	2 175 353
Natural gas	million m ³	242	276	344	484	307
Salt						
Rock salt	tonnes	55 305	10 205	6 100	512	...
Sea salt	tonnes	411 646	556 652	582 440	529 235	*500 000
Other salt	tonnes	1 729 686	1 675 915	1 569 178	1 196 486	*1 200 000
Silver, mine	kilograms (metal content)	124 000	158 000	122 000	219 000	*220 000
Strontium minerals	tonnes	*70 000	*70 000	*60 000	*60 000	*60 000
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	34 000	28 000	20 000	55 000	59 000
Recovered (a) (b)	tonnes (sulphur content)	123 000	94 000	68 000	76 000	73 000
Talc	tonnes	...	...	...	...	...
Zinc, mine	tonnes (metal content)	43 000	40 000	39 000	56 000	62 000

Note(s):-

(1) Turkey is believed to produce diatomite and wollastonite

(a) From petroleum refining and/or natural gas

(b) Other

Exports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	401 071	619 130	758 169	1 631 232	586 393
Aluminium and bauxite						
Alumina	tonnes	23 425	25 573	29 915	45 838	33 430
Unwrought (a)	tonnes	3 745	4 429	8 076	27 039	19 137
Scrap	tonnes	10 582	8 036	9 955	12 534	6 358
Antimony						
Ores & concentrates	tonnes	210	650	700	920	261
Metal	tonnes	...	7	25	63	—
Asbestos	tonnes	3	42 000	0	65	1
Barytes	tonnes	117 862	101 716	142 767	134 333	44 055
Bentonite and fuller's earth						
Bentonite	tonnes	106 712	153 691	210 328	211 926	84 595
Fuller's earth	tonnes	220	253	179	342	251
Cadmium						
Metal	tonnes	...	...	95	25	27
Cement						
Cement clinkers	tonnes	4 546 480	2 898 730	2 359 071	2 893 665	836 602
Portland cement	tonnes	5 803 964	6 749 791	7 907 130	6 713 088	3 277 480
Other cement	tonnes	25 296	96 793	147 792	261 816	112 683
Chromium						
Ores & concentrates	tonnes	265 296	363 699	575 030	834 034	887 689
Metal	tonnes	249	20	33	238	6
Coal						
Anthracite	tonnes	12 062	9 540	11 077	10 324	1 259
Copper						
Ores & concentrates	tonnes	209 656	151 667	180 609	145 118	68 286
Unwrought	tonnes	22 324	18 709	12 846	13 187	7 407
Scrap	tonnes	9 897	18 492	4 529	14 977	3 822
Diatomite	tonnes	4 653	11 294	14 581	11 045	6 986
Feldspar	tonnes	2 162 841	3 027 769	3 971 725	3 001 789	2 704 372
Gold						
Metal	kilograms	11 263	11 455	9 722	29 624	13 581
Gypsum						
Crude	tonnes	320	1 282	7 859	4 346	26 683
Calcined	tonnes	210 898	308 189	434 910	477 710	481 313
Iodine	kilograms	2 570	209	117	1 250	125
Iron, steel and ferro-alloys						
Pig iron	tonnes	12 895	1 060	50 165	9 358	1 150
Ferro-chrome	tonnes	61 163	53 695	16 286	38 738	9 858
Other ferro-alloys	tonnes	1 156	5 361	5 092	5 474	600
Ingots, blooms, billets	tonnes	2 734 188	3 178 909	3 769 934	2 174 257	560 003
Scrap	tonnes	34 512	48 741	82 460	64 281	44 474
Kaolin	tonnes	190 404	299 843	267 817	146 562	42 758
Lead						
Ores & concentrates (b)	tonnes	42 390	18 619	27 179	24 590	7 792
Unwrought	tonnes	4 728	1 484	6 190	2 875	749
Magnesite and magnesia						
Magnesite	tonnes	52 446	45 534	39 670	41 353	5 880
Magnesia	tonnes	213 384	196 613	230 675	198 081	84 322
Manganese						
Ores & concentrates	tonnes	5 655	...	12 817	955	2 466
Mica	tonnes	503	546	15 975	565	430
Nickel						
Ores & concentrates	tonnes	...	43 600	3 511	51 703	22 942
Crude petroleum	tonnes	15 310	8 401	...	23 242	22 626
Salt	tonnes	46 398	43 317	30 898	22 167	17 095
Silver						
Metal	kilograms	303	947	2 731	21 449	8 932
Sulphur and pyrites						
Sulphur	tonnes	2 530	1 251	534	638	...
Sulphur, sublimed & precipitated	tonnes	1 641	141	75	127	108
Talc	tonnes	249	436	1 963	2 768	312
Titanium						
Metal	tonnes	2	7	20	30	17

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Vanadium						
Pentoxide	tonnes	...	680	900	940	—
Zinc						
Ores & concentrates	tonnes	100 445	97 605	110 692	138 288	144 662
Unwrought (a)	tonnes	2 579	315	302	227	120
Scrap	tonnes	...	4 293	2 318	53	176

Note(s):-

(a) Including alloys

(b) Complex lead-zinc ore

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	2 425	3 660	4 519	7 785	2 607
Aluminium and bauxite						
Bauxite	tonnes	33 361	39 129	34 592	46 016	52 627
Alumina	tonnes	16 311	26 096	19 341	19 665	23 179
Unwrought	tonnes	109 683	160 378	182 113	236 076	245 876
Unwrought alloys	tonnes	84 829	114 881	144 836	146 853	168 498
Scrap	tonnes	9 478	14 850	11 648	16 723	7 061
Antimony						
Metal	tonnes	98	141	87	40	46
Oxide	tonnes	314	294	460	377	135
Arsenic						
Metallic arsenic	tonnes	49	78	48	82	22
Asbestos	tonnes	13 977	14 645	13 509	12 373	4 909
Barytes	tonnes	202	121	258	1 983	137
Bentonite and fuller's earth						
Bentonite	tonnes	1 715	1 702	832	4 127	2 127
Fuller's earth	tonnes	201	104	157	159	93
Bismuth						
Metal	tonnes	4	4	6	7	8
Bromine	kilograms	(a) 111 895	(a) 75 080	(a) 149 960	105 000	24 426
Cadmium						
Metal	tonnes	14	12	6	2	3
Cement						
Cement clinkers	tonnes	7 117	170 275	375 619	567 256	1 209 618
Portland cement	tonnes	19 014	9 922	9 096	66 260	71 237
Other cement	tonnes	5 800	3 675	105	4 693	3 979
Chromium						
Ores & concentrates	tonnes	68 832	82 452	56 836	89 844	60 906
Metal	tonnes	19	19	85	26	14
Coal						
Anthracite	tonnes	213 743	340 165	397 125	413 333	502 178
Other coal	tonnes	13 394 458	15 215 711	16 033 118	16 126 628	14 658 368
Cobalt						
Metal	tonnes	88	157	170	164	92
Oxides	tonnes	84	108	134	139	81
Copper						
Ores & concentrates	tonnes	61 302	54 573	10 370	44 633	15 921
Unwrought, unrefined	tonnes	7 117	100	29 555	53 214	24 682
Unwrought, refined	tonnes	205 955	229 159	217 290	223 978	150 412
Unwrought alloys	tonnes	1 107	3 768	4 685	3 212	2 160
Scrap	tonnes	7 061	29 803	34 975	9 629	4 374
Diamond						
Gem	carats	...	...	1 225 000	1 450 000	615 000
Industrial	carats	...	...	65 000	165 000	35 000
Dust	carats	...	...	15 900 000	26 765 000	13 675 000
Diatomite	tonnes	1 185	1 736	1 211	1 442	657

Turkey

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Feldspar	tonnes	5 269	26 977	40 733	40 739	12 074
Fluorspar	tonnes	13 790	18 208	31 908	30 446	21 750
Gold						
Metal	kilograms	142 013	225 021	262 519	403 415	157 792
Graphite	tonnes	7 010	7 429	10 212	11 956	6 300
Gypsum	tonnes	90 335	160 214	170 958	183 553	174 961
Iodine	kilograms	30 450	15 405	31 736	18 547	1 602
Iron ore						
Iron ore	tonnes	2 879 135	2 144 607	2 070 545	2 095 737	3 019 240
Burnt pyrites	tonnes	2 499 655	3 048 337	2 503 319	2 525 709	4 706
Iron, steel and ferro-alloys						
Pig iron	tonnes	324 368	306 901	286 589	396 658	333 981
Sponge & powder	tonnes	84 443	75 798	18 084	68 952	34 440
Ferro-manganese	tonnes	48 178	70 866	44 406	43 631	33 481
Ferro-silico-manganese	tonnes	157 650	178 594	189 294	159 496	216 036
Ferro-molybdenum	tonnes	776	816	838	1 253	750
Ferro-niobium	tonnes	167	189	211	433	113
Ferro-silicon	tonnes	55 575	126 532	82 543	57 501	49 319
Other ferro-alloys	tonnes	10 692	11 087	13 926	18 373	9 690
Silicon metal	tonnes	2 730	7 968	4 649	4 794	5 233
Ingots, blooms, billets	tonnes	896 891	1 618 384	1 531 529	1 816 973	1 504 374
Scrap	tonnes	9 749 780	12 818 350	12 892 546	13 010 728	12 860 533
Kaolin	tonnes	149 559	197 684	218 838	265 530	190 924
Lead						
Unwrought	tonnes	64 513	71 665	71 606	71 680	56 792
Lithium						
Oxides	tonnes	136	120	179	183	168
Carbonate	tonnes	157	278	417	433	440
Magnesite and magnesia						
Magnesia	tonnes	50 238	56 000	38 084	52 432	29 148
Manganese						
Metal	tonnes	182	137	495	300	200
Mercury	kilograms	5 358	8 152	6 044	1 443	2 019
Mica	tonnes	33	169	215	248	231
Molybdenum						
Metal	tonnes	4	4	10	4	3
Oxides	tonnes	54	84	130	82	0
Nickel						
Unwrought (b)	tonnes	1 919	2 415	3 353	3 321	1 423
Oxides	tonnes	160	162	144	128	44
Crude petroleum	tonnes	21 626 643	24 028 666	23 917 019	23 393 477	8 680 623
Phosphates	tonnes	746 033	610 286	291 245	373 134	211 810
Platinum metals						
Platinum & platinum metals	kilograms	393	378	231	216	122
Potash						
Sulphate	tonnes	31 362	51 467	59 381	39 198	19 373
Chloride	tonnes	111 780	107 412	130 748	135 433	78 671
Rare earths						
Rare earth compounds	tonnes	155	201	171	155	117
Salt	tonnes	78 204	202 349	307 039	320 147	285 694
Sillimanite	tonnes	3 386	3 486	5 110	5 504	2 939
Silver						
Metal	kilograms	169 098	199 226	269 009	409 844	108 588
Sulphur and pyrites						
Sulphur	tonnes	127 779	124 243	90 502	91 763	49 620
Sulphur, sublimed & precipitated	tonnes	2 008	4 899	138	110	43
Talc	tonnes	10 937	11 227	16 810	15 312	10 900
Tin						
Unwrought (b)	tonnes	1 801	1 966	2 314	2 731	1 274
Titanium						
Titanium minerals	tonnes	5 876	5 591	10 435	6 755	2 941
Oxides	tonnes	61 927	68 613	85 832	91 083	65 257

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Zinc						
Unwrought	tonnes	(b) 110 773	(b) 126 315	(b) 148 897	139 156	72 927
Unwrought alloys	tonnes	...	...	...	6 121	5 481
Zirconium						
Concentrates	tonnes	3 914	3 954	3 881	4 539	2 645
Metal	tonnes	23	5	9	14	3

Note(s):-

(a) May include some fluorine

(b) Including alloys

United Kingdom

Production

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates						
Sand and gravel	tonnes	94 424 000	91 803 000	97 333 000	94 666 000	92 107 000
Crushed rock (a)	tonnes	144 337 000	140 417 000	147 067 000	141 636 000	145 578 000
Alumina	tonnes (Al ₂ O ₃ content)	73 800	—	—	—	—
Primary aluminium	tonnes	344 318	342 748	359 631	368 477	360 325
Barytes	tonnes	*59 000	*57 000	*61 000	*62 000	*47 000
Bentonite and fuller's earth						
Fuller's earth (b)	tonnes	44 200	33 900	27 540	6 200	—
Bromine	kilograms	24 542 000	*25 000 000	—	—	—
Cadmium	tonnes	292	22	—	—	—
Cement clinker	tonnes	10 327 000	10 146 000	10 402 000	10 074 000	10 069 000
Cement, finished	tonnes	11 089 000	11 215 000	11 405 000	11 216 000	11 469 000
Coal						
Bituminous (c)	tonnes	29 989 000	28 279 000	25 096 000	20 498 000	18 528 000
Feldspar (d)	tonnes	1 896	1 309	2 274	1 835	1 441
Fluorspar	tonnes	*53 000	*56 000	50 080	60 980	*60 000
Gypsum	tonnes	*1 700 000	*1 700 000	1 686 000	*1 700 000	*1 700 000
Iron ore	tonnes	464	*500	*500	354	341
Pig iron	tonnes	8 560 600	10 277 800	10 179 600	10 188 800	10 695 700
Crude steel	tonnes	11 527 600	13 128 500	13 765 700	13 238 900	13 904 600
Kaolin (e) (f)	tonnes	2 162 815	2 097 137	1 944 955	1 910 874	1 762 328
Lead, mine	tonnes (metal content)	*700	*700	*500	*500	*500
Lead, refined	tonnes	374 646	364 574	245 938	304 350	306 737
Nickel, smelter/refinery	tonnes	33 800	24 200	38 600	37 100	36 800
Crude petroleum	tonnes	108 023 000	99 055 000	88 831 000	78 809 000	71 426 000
Natural gas	million m ³	110 154	108 441	101 572	93 392	84 170
Potash						
Chloride	tonnes (K ₂ O content)	540 100	621 400	539 500	439 200	429 600
Salt						
Rock salt	tonnes	*1 500 000	*1 700 000	*2 000 000	*2 000 000	*2 000 000
Brine salt	tonnes	*1 000 000	*1 000 000	*1 000 000	*1 000 000	*1 000 000
Salt in brine (g)	tonnes	*3 200 000	*3 200 000	*2 800 000	*2 800 000	*2 800 000
Sulphur and pyrites						
Recovered (h)	tonnes (sulphur content)	66 400	4 800	—	—	—
Recovered (i)	tonnes (sulphur content)	125 000	115 000	120 000	124 000	115 000
Talc	tonnes	6 194	6 494	3 881	6 000	4 000
Slab zinc	tonnes	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	2002	2003	2004	2005	2006
Primary aggregates	tonnes	12 475 405	11 608 077	12 702 493	13 304 920	14 631 060
Aluminium and bauxite						
Bauxite	tonnes	22 740	...	6 576	4 237	28 636
Alumina	tonnes	7 768	(a) *5 000	5 766	4 336	9 979
Alumina hydrate	tonnes	20 170	(a) *25 800	(a) *35 500	(a) *20 600	(a) *1 200
Unwrought	tonnes	9 403	1 559	29 949	48 684	17 530
Unwrought alloys	tonnes	241 799	270 701	306 372	329 691	331 598
Scrap	tonnes	243 894	295 642	319 217	474 587	385 211
Antimony						
Metal	tonnes	252	65	88	54	27
Oxide	tonnes	1 879	1 413	663	621	397
Arsenic						
Metallic arsenic	tonnes	5	0	0	1	1
Barytes	tonnes	37 778	69 094	12 873	16 334	4 250
Bentonite and fuller's earth						
Bentonite	tonnes	81 707	75 099	71 153	49 514	42 548
Fuller's earth	tonnes	74	254	124	778	1 102
Bismuth						
Metal	tonnes	1 793	2 239	2 633	2 426	2 703
Bromine	kilograms	8 671 909	5 307 678	1 126 043	234 977	1 137 544
Cadmium						
Metal	tonnes	114	187	27	79	7
Cement						
Cement clinkers	tonnes	160 704	60 920	82 936	134 992	91 357
Portland cement	tonnes	305 801	216 480	214 420	320 680	521 784
Other cement	tonnes	66 163	61 193	76 517	68 554	69 692
Chromium						
Ores & concentrates	tonnes	26	212	622	228	47
Metal	tonnes	3 837	4 173	4 776	4 547	5 123
Coal						
Anthracite	tonnes	187 372	180 382	172 486	169 252	137 353
Other coal	tonnes	341 626	352 620	439 930	380 426	354 281
Lignite	tonnes	...	2 629	2 335	2 321	2 748
Briquettes	tonnes	64 094	60 172	41 094	20 713	20 037
Cobalt						
Metal	tonnes	1 120	1 546	1 882	1 471	1 695
Oxides	tonnes	1 233	1 380	1 233	994	750
Copper						
Matte & cement	tonnes	10 724	2 723	79	41	515
Unwrought	tonnes	32 276	2 924	7 362	16 253	6 122
Unwrought alloys	tonnes	26 666	24 121	22 035	15 013	17 251
Scrap	tonnes	163 579	210 169	244 749	238 557	311 058
Diamond						
Unsorted	carats	...	9 744 443	6 394 541	16 818 545	3 544 216
Gem, rough	carats	86 681 020	104 300 972	78 613 304	76 400 064	88 991 279
Gem, cut	carats	394 881	828 103	1 592 715	5 330 874	2 341 635
Industrial	carats	7 837 074	12 177 638	22 821 714	21 647 850	13 652 233
Dust	carats	...	75 401 755	149 415 960	124 529 495	111 788 350
Diatomite	tonnes	816	1 003	2 123	708	687
Feldspar	tonnes	209	801	261	48	38
Fluorspar	tonnes	636	519	4 593	5 803	3 016
Gold						
Metal	kilograms	198 805	82 892	407 467	638 262	166 080
Waste & scrap	kilograms	548 843	1 074 829	471 657	541 399	313 712
Graphite	tonnes	2 816	4 158	4 348	2 685	2 979
Gypsum						
Crude	tonnes	14 460	2 601	3 903	2 299	2 679
Calcined	tonnes	44 827	39 515	49 945	54 356	63 533
Iodine	kilograms	207 341	169 145	107 007	197 086	314 659

United Kingdom

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 376	1 459	957	1 387	5 407
Sponge & powder	tonnes	3 134	3 666	4 003	3 605	2 346
Ferro-chrome & ferro-silico-chrome	tonnes	814	1 711	2 384	6 238	4 066
Ferro-silico-magnesium	tonnes	...	...	316	542	653
Ferro-manganese	tonnes	1 874	434	1 554	661	473
Ferro-silico-manganese	tonnes	116	42	8 247	5 003	60
Ferro-molybdenum	tonnes	11 965	14 081	14 213	11 501	12 004
Ferro-nickel	tonnes	368	424	125	55	329
Ferro-niobium	tonnes	46	59	47	79	74
Ferro-phosphorus	tonnes	57	109	1 336	189	36
Ferro-silicon	tonnes	3 155	1 845	2 699	2 652	2 733
Ferro-titanium & ferro-silico-titanium	tonnes	16 334	14 676	20 703	17 361	17 645
Ferro-vanadium	tonnes	55	39	17	156	151
Other ferro-alloys	tonnes	9 226	6 349	5 544	6 204	4 344
Silicon metal	tonnes	4 050	2 699	1 555	2 466	6 963
Ingots, blooms, billets	tonnes	560 796	1 305 976	1 712 102	2 246 377	2 692 654
Scrap	tonnes	5 538 569	7 174 934	6 772 111	6 105 955	7 407 174
Kaolin (b)	tonnes	1 899 220	1 862 437	1 728 161	1 698 747	1 566 025
Lead						
Unwrought	tonnes	101 832	61 682	34 859	52 593	89 271
Unwrought alloys	tonnes	57 249	44 091	31 148	38 806	48 589
Scrap	tonnes	17 116	28 569	32 934	27 248	1 859
Lithium						
Oxides	tonnes	186	169	285	125	94
Carbonate	tonnes	147	193	160	203	271
Magnesite and magnesia						
Magnesite	tonnes	337	34	49	87	26
Magnesia	tonnes	26 460	26 248	24 796	20 077	19 036
Manganese						
Metal (a)	tonnes	*4 300	*5 500	*3 100	*3 000	*1 900
Mercury	kilograms	6 226	851	2 054	191 193	78 514
Mica	tonnes	4 089	4 774	9 377	4 050	4 593
Molybdenum						
Ores & concentrates	tonnes	418	84	180	179	166
Metal	tonnes	326	230	312	807	318
Nickel						
Mattes, sinters etc.	tonnes	128	200	964	196	517
Unwrought	tonnes	19 775	19 200	38 249	38 524	31 610
Unwrought alloys	tonnes	4 257	4 899	4 710	6 141	6 486
Scrap	tonnes	7 912	7 861	10 465	14 119	15 555
Crude petroleum	tonnes	79 943 787	69 617 507	60 743 679	50 619 044	47 864 601
Phosphates	tonnes	386	111	34	1 548	335
Platinum metals						
Platinum	kilograms	69 955	37 874	44 598	41 500	42 843
Palladium	kilograms	19 176	27 669	61 198	51 807	48 688
Other platinum metals	kilograms	6 002	9 631	12 610	17 852	23 353
Waste & scrap	kilograms	914 126	1 862 845	2 681 379	2 881 226	3 507 381
Potash						
Chloride	tonnes	*440 000	*630 000	*512 000	*350 000	*450 000
Other potassic fertilisers	tonnes	740	609	662	705	651
Rare earths						
Cerium compounds	tonnes	88	118	47	121	111
Other rare earth compounds	tonnes	1 128	1 105	1 157	1 189	954
Ferro-cerium & other pyrophoric alloys	tonnes	19	768	197	2	76
Metals	tonnes	148	16	10	26	29
Salt	tonnes	326 760	537 497	691 895	538 796	557 311
Sillimanite	tonnes	4 554	3 238	2 016	2 417	1 925
Silver						
Metal	kilograms	1 497 995	3 429 247	1 754 885	2 289 098	1 069 383
Sulphur and pyrites						
Sulphur	tonnes	580	476	700	431	756
Sulphur, sublimed & precipitated	tonnes	657	836	1 387	1 458	1 312
Talc	tonnes	3 833	3 325	3 317	5 244	4 626

Exports continued

Commodity	Units	2002	2003	2004	2005	2006
Tantalum and niobium						
Tantalum	tonnes	280	278	77	131	83
Tin						
Concentrates	tonnes	24	29	0	2	4
Unwrought	tonnes	381	283	524	1 608	8 395
Unwrought alloys	tonnes	2 165	2 152	885	442	698
Scrap	tonnes	2 821	4 499	7 353	20 603	35 252
Titanium						
Metal	tonnes	11 511	10 084	11 913	17 212	14 028
Oxides	tonnes	238 884	242 541	234 591	215 741	182 246
Tungsten						
Metal	tonnes	1 667	2 053	1 267	1 732	2 100
Carbide	tonnes	5	70	92	83	251
Vanadium						
Metal	tonnes	1 425	1 137	1 075	433	70
Zinc						
Unwrought	tonnes	15 686	3 106	1 581	1 661	5 325
Unwrought alloys	tonnes	22 366	21 770	26 260	38 267	37 120
Scrap	tonnes	15 248	15 436	9 710	9 881	4 571
Zirconium						
Concentrates	tonnes	5 033	418	505	699	902
Metal	tonnes	263	244	183	127	90

Note(s):-

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

(b) Dry weight

Imports

Commodity	Units	2002	2003	2004	2005	2006
Primary aggregates	tonnes	986 963	1 494 230	1 543 380	2 160 513	2 905 198
Aluminium and bauxite						
Bauxite	tonnes	...	...	122 021	103 522	86 882
Alumina	tonnes	(b) 798 479	(a) *828 300	748 933	755 443	823 115
Alumina hydrate	tonnes	...	(a) *143 000	124 451	130 321	101 126
Unwrought	tonnes	212 046	163 573	116 545	114 189	169 259
Unwrought alloys	tonnes	159 310	129 451	118 398	87 063	122 748
Scrap	tonnes	117 954	105 061	78 309	116 285	137 626
Antimony						
Metal	tonnes	183	290	410	60	81
Oxide	tonnes	3 164	2 712	2 976	2 048	2 291
Arsenic						
Metallic arsenic	tonnes	86	155	165	3	49
Asbestos	tonnes	118	3	2 150	—	0
Barytes	tonnes	74 935	56 867	63 934	54 753	78 225
Bentonite and fuller's earth						
Bentonite	tonnes	216 022	198 434	187 750	151 179	173 483
Sepiolite	tonnes	(c) 69 691	(c) 55 483	51 044	65 565	72 340
Fuller's earth	tonnes	9 115	7 085	2 574	3 122	14 700
Bismuth						
Metal	tonnes	1 513	2 237	2 205	2 858	2 347
Bromine	kilograms	2 879 558	1 899 231	7 145 977	7 994 939	7 592 352
Cadmium						
Metal	tonnes	225	416	479	206	129
Cement						
Cement clinkers	tonnes	289 685	506 128	377 341	406 044	516 583
Portland cement	tonnes	2 142 589	1 714 946	2 033 772	1 645 088	1 397 025
Other cement	tonnes	61 327	61 131	64 289	37 705	26 790
Chromium						
Ores & concentrates	tonnes	139 748	107 161	130 841	122 042	74 907
Metal	tonnes	1 171	1 612	2 321	1 723	4 022

United Kingdom

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Coal						
Anthracite	tonnes	1 550 849	334 883	197 788	187 388	125 011
Other coal	tonnes	27 110 435	31 538 546	35 958 449	43 890 778	49 544 012
Briquettes	tonnes	17 127	7 638	8 498	6 554	9 995
Cobalt						
Metal	tonnes	4 036	3 356	3 862	3 888	4 427
Oxides	tonnes	487	582	525	107	195
Copper						
Unwrought, unrefined	tonnes	89	14	122	1 978	264
Unwrought, refined	tonnes	316 578	245 152	214 067	181 767	183 727
Unwrought alloys	tonnes	5 480	6 160	8 070	6 191	6 743
Scrap	tonnes	19 240	17 378	15 731	42 264	19 744
Diamond						
Unsorted	carats	1 794 607	5 210 022	10 557 063	33 441 810	14 408 621
Gem, rough	carats	70 336 037	77 712 486	68 227 020	78 735 595	78 790 692
Gem, cut	carats	5 123 898	4 520 872	9 317 146	12 039 040	7 370 573
Industrial	carats	7 804 225	21 518 053	30 993 560	25 367 064	11 884 651
Dust	carats	68 359 660	92 290 565	126 277 015	125 510 400	199 882 920
Diatomite	tonnes	34 490	37 217	34 988	29 208	28 290
Feldspar	tonnes	33 196	25 764	31 601	23 139	17 098
Fluorspar	tonnes	26 690	21 360	25 092	4 051	6 620
Gold						
Metal	kilograms	1 280 970	1 414 697	1 053 100	460 239	781 840
Waste & scrap	kilograms	122 639	231 365	274 919	66 198	7 925
Graphite	tonnes	22 435	19 270	19 075	17 766	16 978
Gypsum						
Crude (d)	tonnes	646 889	903 068	227 068	761 117	461 783
Iodine	kilograms	744 234	825 813	802 782	1 092 633	1 019 543
Iron ore						
Iron ore	tonnes	13 316 026	16 121 350	15 298 713	16 204 615	16 370 705
Burnt pyrites	tonnes	...	19 230	2 436	1 911	1 282
Iron, steel and ferro-alloys						
Pig iron	tonnes	124 682	116 724	105 007	102 531	81 689
Sponge & powder	tonnes	23 673	21 503	21 059	21 914	34 768
Ferro-chrome	tonnes	112 898	68 405	112 234	63 478	52 494
Ferro-silico-chrome	tonnes	2 309	63	—	728	350
Ferro-silico-magnesium	tonnes	5 820	5 663	4 969	5 448	3 810
Ferro-manganese	tonnes	86 681	76 686	91 533	79 045	86 598
Ferro-silico-manganese	tonnes	64 565	53 421	63 633	57 136	59 985
Ferro-molybdenum	tonnes	338	434	836	861	640
Ferro-nickel	tonnes	11 010	16 437	14 628	11 325	13 169
Ferro-niobium	tonnes	1 029	1 148	1 236	1 175	1 098
Ferro-phosphorus	tonnes	1 503	2 124	1 687	3 261	386
Ferro-silicon	tonnes	76 046	75 469	71 973	58 225	64 610
Ferro-titanium & ferro-silico-titanium	tonnes	2 729	2 042	2 457	1 883	1 087
Ferro-tungsten & ferro-silico-tungsten	tonnes	32	60	10	36	134
Ferro-vanadium	tonnes	748	1 071	1 262	609	1 623
Other ferro-alloys	tonnes	4 258	2 195	2 275	2 427	6 327
Silicon metal	tonnes	80 766	100 472	100 233	77 103	29 512
Ingots, blooms, billets	tonnes	1 453 884	540 537	758 615	722 452	1 053 176
Scrap	tonnes	113 107	139 089	225 483	180 261	154 967
Kaolin						
Kaolin	tonnes	58 993	72 719	126 501	84 750	198 524
Lead						
Ores & concentrates (e)	tonnes	*30 000	*5 000	—	—	...
Unwrought, base bullion (f)	tonnes	184 060	168 228	127 970	173 910	120 871
Unwrought, other	tonnes	32 468	28 132	51 382	31 347	53 892
Scrap	tonnes	4 946	6 043	6 278	3 898	5 914
Lithium						
Oxides	tonnes	409	554	498	446	385
Carbonate	tonnes	626	687	490	657	650
Magnesite and magnesia						
Magnesite	tonnes	9 252	20 287	11 187	13 896	10 644
Magnesia	tonnes	98 075	82 100	83 539	78 843	64 896
Manganese						
Ores & concentrates (g)	tonnes	1 218	2 102	2 585	698	4 229
Metal	tonnes	7 600	8 250	9 189	8 223	8 563

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Mercury	kilograms	23 302	29 673	27 875	32 306	2 128
Mica						
Unmanufactured	tonnes	240	424	1 769	296	251
Ground	tonnes	9 349	8 327	6 286	6 684	5 856
Waste	tonnes	4 224	5 050	4 374	4 485	3 474
Molybdenum						
Ores & concentrates	tonnes	21 437	18 884	18 371	18 600	19 032
Metal	tonnes	1 220	1 169	1 854	2 877	3 445
Oxides	tonnes	106	7	2	630	635
Nickel						
Mattes, sinters etc.	tonnes	52 514	43 968	64 192	57 492	56 336
Unwrought	tonnes	46 610	34 162	45 264	24 019	17 414
Unwrought alloys	tonnes	1 868	31 491	2 238	1 629	2 883
Scrap	tonnes	25 270	20 038	8 957	10 927	7 975
Oxides	tonnes	130	47	103	277	59
Crude petroleum	tonnes	40 838 161	44 511 352	56 128 686	54 067 943	55 735 570
Phosphates	tonnes	10 275	1 242	11 586	30 177	7 803
Platinum metals						
Platinum	kilograms	12 030	13 827	47 735	51 553	23 472
Palladium	kilograms	22 072	48 106	24 666	30 576	37 226
Other platinum metals	kilograms	4 772	8 636	8 267	7 134	9 127
Waste & scrap	kilograms	775 673	367 327	617 417	1 271 315	1 148 802
Potash						
Fertiliser salts	tonnes	19 366	12 751	9 204	9 517	10 696
Chloride	tonnes	372 031	246 164	207 056	198 893	170 942
Other potassic fertilisers	tonnes	8 804	5 439	12 383	13 151	15 584
Rare earths						
Cerium compounds	tonnes	3 070	2 519	1 914	2 324	1 615
Other rare earth compounds	tonnes	491	471	775	775	600
Ferro-cerium & other pyrophoric alloys	tonnes	34	1	9	19	60
Metals	tonnes	64	115	135	166	88
Salt	tonnes	306 488	217 009	219 581	287 623	246 879
Sillimanite						
Sillimanite	tonnes	18 588	22 649	24 348	39 650	10 268
Mullite	tonnes	10 006	8 656	12 392	10 430	7 468
Silver						
Metal	kilograms	3 780 907	2 484 101	2 105 057	1 485 290	7 316 639
Sulphur and pyrites						
Sulphur, crude	tonnes	(h) 87 260	23 469	44 963	24 222	11 608
Sulphur, refined	tonnes	...	5 560	3 984	7 263	7 334
Sulphur, sublimed & precipitated	tonnes	355	544	675	577	1 297
Talc	tonnes	66 119	59 172	66 722	65 496	55 200
Tantalum and niobium						
Tantalum	tonnes	3 480	842	243	97	119
Tin						
Unwrought	tonnes	7 151	7 488	5 861	4 812	3 558
Unwrought alloys	tonnes	1 437	2 378	1 145	2 067	891
Scrap	tonnes	188	168	215	468	1 728
Titanium						
Ilmenite	tonnes	106 177	113 852	110 596	80 435	175 882
Other titanium minerals	tonnes	82 303	111 754	113 852	109 238	48 147
Titanium slag	tonnes	157 020	44 890	151	64 849	91 603
Metal	tonnes	25 319	25 126	27 401	27 938	30 267
Oxides	tonnes	95 583	74 138	74 787	67 102	71 528
Tungsten						
Metal	tonnes	2 121	1 932	1 903	3 204	4 607
Carbide	tonnes	759	1 232	838	974	913
Vanadium						
Pentoxide	tonnes	962	363	306	339	472
Metal	tonnes	171	256	338	812	407
Zinc						
Ores & concentrates	tonnes	229 042	16 611	260	903	603
Unwrought	tonnes	108 357	171 219	139 477	135 840	119 676
Unwrought alloys	tonnes	5 738	13 796	15 960	16 128	15 666
Scrap	tonnes	261	172	228	188	334

United Kingdom

Imports continued

Commodity	Units	2002	2003	2004	2005	2006
Zirconium						
Concentrates	tonnes	30 656	39 285	32 917	19 519	13 729
Metal	tonnes	394	346	444	338	467

Note(s):-

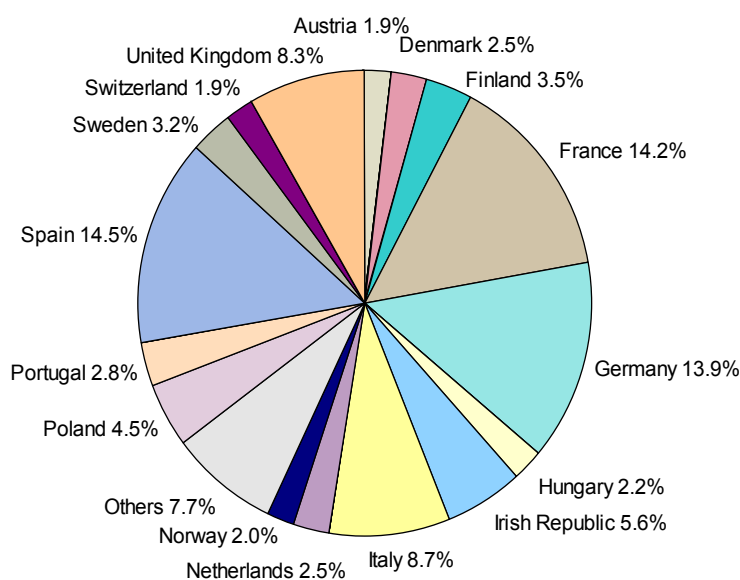
- (a) BGS estimates, based on known exports from certain countries
- (b) Including some bauxite
- (c) Exports from Spain
- (d) Including calcined
- (e) Pb content
- (f) Includes a substantial precious metal content, mainly silver
- (g) Including manganiferous Iron ore
- (h) Including refined

STATISTICAL TABLES BY COMMODITY

Primary aggregates

- Primary aggregates are crushed rock aggregates and sands and gravels that are widely used in the construction industry. The trade data presented here is 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 EU32 producer of primary aggregates in 2006, with 415 million tonnes (14.5%). Norway was the largest net exporter. 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 EU32 are closely balanced from year to year and the considerable total trade (215 million tonnes) is almost entirely within the EU32 area.

EU32 Production of aggregates 2006



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

Country	2002	2003	2004	2005	2006
Austria					
Sand and gravel (a)	28 758 261	27 287 331	29 395 685	29 065 350	27 589 904
Crushed rock (a)	22 438 122	26 333 481	27 687 041	25 093 602	26 791 067
Belgium					
Sand and gravel (b) (c)	10 374 974	9 245 757	8 787 817	8 330 239	8 636 966
Crushed rock (b) (d)	40 137 452	36 772 879	36 980 382	38 826 735	39 937 651
Bulgaria					
Sand and gravel	5 897 773	7 072 776	9 719 350	12 835 622	11 698 613
Crushed rock	3 911 441	3 986 616	5 688 492	8 121 646	8 230 249
Cyprus					
Crushed rock	10 500 000	10 700 000	11 600 000	12 064 112	12 198 513
Czech Republic					
Sand and gravel	12 248 595	15 267 650	15 703 358	15 672 765	16 931 536
Crushed rock	23 643 644	27 934 515	28 846 776	30 221 600	34 815 503
Denmark					
Sand and gravel	53 300 000	50 800 000	57 300 000	69 500 000	72 060 000
Crushed rock	390 000	380 000	372 000	378 000	372 000

Production continued

tonnes

Country	2002	2003	2004	2005	2006
Estonia					
Sand and gravel	1 650 400	1 973 740	2 341 620	3 459 760	4 210 280
Crushed rock	4 571 100	4 082 700	5 426 600	6 828 600	8 322 300
Finland					
Sand and gravel	51 000 000	55 000 000	55 000 000	53 000 000	54 000 000
Crushed rock	39 000 000	40 000 000	43 000 000	45 000 000	46 000 000
France					
Sand and gravel	167 970 000	165 470 000	168 080 000	168 640 000	174 360 000
Crushed rock	215 290 000	217 400 000	223 170 000	222 780 000	233 090 000
Germany					
Sand and gravel	292 100 000	285 500 000	267 300 000	252 000 000	266 000 000
Crushed rock	130 693 000	124 047 000	125 600 000	122 244 000	132 700 000
Hungary					
Sand and gravel	35 407 000	40 530 145	46 354 829	69 027 609	46 458 296
Crushed rock	9 792 782	10 090 547	13 037 471	15 078 440	17 944 036
Irish Republic					
Sand and gravel	34 000 000	40 000 000	*40 000 000	*40 000 000	*64 000 000
Crushed rock	78 000 000	60 000 000	*60 000 000	*94 000 000	*96 000 000
Italy					
Sand and gravel (a)	200 776 836	212 169 204	200 836 237	206 149 140	177 625 321
Crushed rock (a)	46 512 344	44 562 447	59 377 657	61 639 848	70 887 571
Latvia					
Sand and gravel	2 534 837	3 577 604	4 946 204	6 059 487	5 202 061
Crushed rock	...	...	414 305	586 607	582 081
Lithuania					
Sand and gravel	5 770 428	4 793 670	5 835 729	7 034 402	7 633 311
Crushed rock	2 145 727	2 896 045	3 683 266	4 757 023	5 259 535
Netherlands					
Sand and gravel	81 490 000	74 200 000	66 200 000	63 579 000	72 200 000
Norway					
Sand and gravel	14 000 000	15 000 000	15 000 000	15 000 000	13 380 000
Crushed rock	36 000 000	36 000 000	37 000 000	38 000 000	45 280 000
Poland					
Sand and gravel (f)	60 186 000	71 376 000	73 028 000	88 819 000	*90 000 000
Crushed rock	25 875 000	26 404 000	29 271 189	33 098 360	38 835 618
Portugal					
Sand and gravel	8 075 609	7 417 636	9 405 437	8 284 238	...
Crushed rock	84 107 486	70 994 473	73 264 403	73 343 159	...
Romania					
Sand and gravel	1 568 994	1 013 386	1 458 266	1 394 414	*1 600 000
Slovakia					
Sand and gravel	2 238 400	2 627 200	3 174 400	6 807 116	7 522 034
Crushed rock	8 847 900	9 212 400	9 717 300	12 575 266	15 337 749
Slovenia					
Sand and gravel	11 277 000	11 012 000	12 373 000	12 432 000	17 873 000
Crushed rock	13 049 675	15 040 340	13 719 888	12 176 491	14 213 319
Spain					
Sand and gravel	97 857 003	118 746 034	113 947 729	115 000 000	*120 000 000
Crushed rock	237 379 504	254 100 000	273 555 490	280 000 000	*295 000 000
Sweden					
Sand and gravel	24 537 500	21 650 322	22 647 111	21 755 752	21 488 963
Crushed rock	46 771 631	49 326 880	54 737 031	62 313 089	70 517 845
Switzerland					
Sand and gravel	...	...	26 000 000	46 500 000	50 000 000
Crushed rock	...	...	3 000 000	5 300 000	5 700 000
United Kingdom					
Sand and gravel	94 424 000	91 803 000	97 333 000	94 666 000	92 107 000
Crushed rock (e)	144 337 000	140 417 000	147 067 000	141 636 000	145 578 000
EU32 Total	2 550 000 000	2 574 000 000	2 638 000 000	2 761 000 000	2 868 000 000

Note(s):-
(See over)

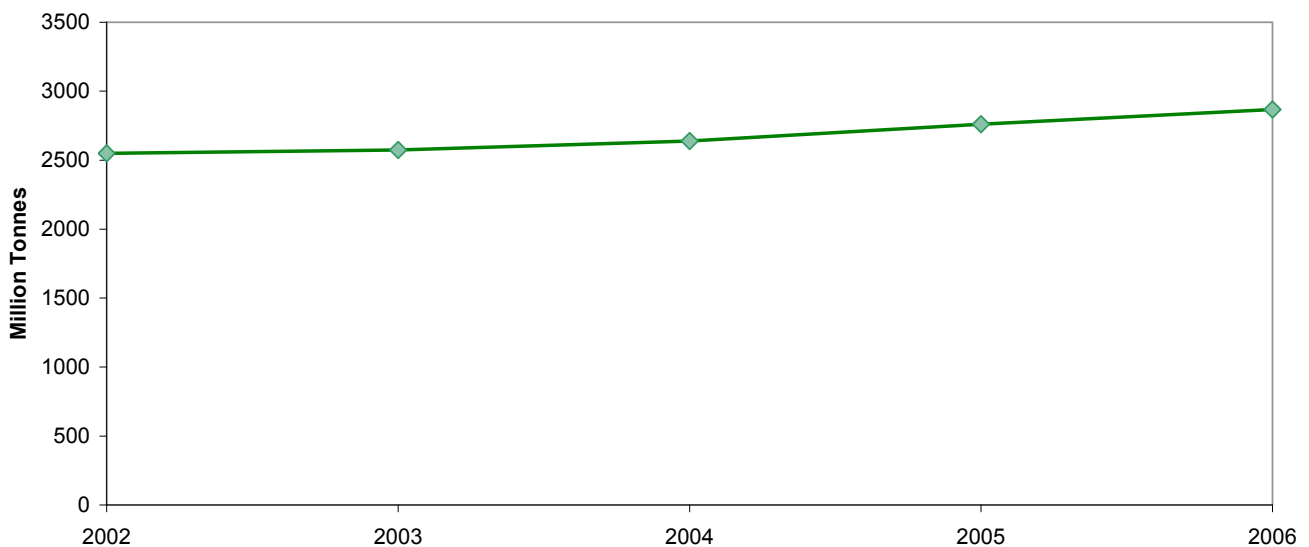
Aggregates

Production continued

Note(s):-

- (1) So far as possible, these production statistics include construction sand; gravel, pebbles, shingle and flint; crushed stone used for concrete aggregates, roadstone, and other construction used; 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 EU32 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 construction sand and silica sand. Excludes gravel
 - (d) Includes gravel
 - (e) Includes small quantities for other purposes in Northern Ireland
 - (f) Includes an estimate for small producers

EU32 Production of aggregates 2002 - 06



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

tonnes

Country	2002	2003	2004	2005	2006
Austria	2 581 242	3 163 141	2 829 930	2 745 393	3 086 027
Belgium-Luxembourg	15 340 439	13 562 764	13 208 283	14 573 270	15 452 434
Bulgaria	227 464	214 135	384 420	160 032	282 018
Croatia	2 432 146	1 740 334	2 534 177	1 908 732	2 390 517
Czech Republic	417 503	464 898	344 850	468 540	772 913
Denmark	880 032	736 820	795 330	787 389	973 497
Estonia	376 987	469 343	487 863	522 792	563 697
Finland	879 966	446 404	422 709	580 815	735 655
France	11 154 637	10 116 439	9 389 763	8 492 936	8 928 358
Germany	19 748 571	19 811 898	21 817 271	21 698 651	25 912 337
Greece	18 672	12 670	108 042	43 306	48 990
Hungary	743 157	598 056	729 270	736 586	961 775
Irish Republic	703 054	563 286	135 579	62 729	230 125
Italy	1 638 314	1 333 675	1 556 414	1 734 620	1 720 142
Latvia	118 698	12 108	10 278	13 178	11 618
Lithuania	255 405	228 171	460 569	957 488	871 522
Netherlands	12 743 000	12 427 000	(a) *14 300 000	(a) *14 100 000	(a) *14 900 000
Norway	12 751 398	12 300 157	12 561 778	13 334 212	14 357 509
Poland	435 628	393 090	790 734	1 237 482	1 671 890
Portugal	31 516	31 257	53 451	138 939	101 721
Romania	18 927	35 924	23 073	63 110	51 793
Slovakia	570 446	328 547	(a) *542 000	(a) *796 000	(a) *644 000
Slovenia	92 618	137 354	166 176	221 830	324 830
Spain	1 724 911	1 647 138	1 694 285	1 546 315	2 489 305
Sweden	2 132 194	2 067 542	2 213 385	2 447 200	2 333 174
Switzerland	229 451	184 678	296 911	283 508	273 603
Turkey	401 071	619 130	758 169	1 631 232	586 393
United Kingdom	12 475 405	11 608 077	12 702 493	13 304 920	14 631 060

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	2002	2003	2004	2005	2006
Austria	2 545 866	2 446 023	2 087 667	2 516 839	2 622 855
Belgium-Luxembourg	17 771 910	19 492 423	20 219 032	20 831 220	22 303 782
Bulgaria	17 160	24 578	20 303	17 200	19 384
Croatia	89 920	487 181	2 404 092	4 603 357	3 867 558
Cyprus	1 870	3 201	(a) *8 400	5 921	11 605
Czech Republic	237 868	206 018	509 217	574 008	690 730
Denmark	2 299 752	2 632 665	2 949 549	2 804 325	3 151 321
Estonia	669 205	464 516	456 144	739 618	932 688
Finland	29 163	47 702	75 016	43 488	254 665
France	9 666 340	8 239 025	9 431 953	10 264 292	12 064 403
Germany	13 306 857	11 870 353	11 127 947	11 563 984	11 147 034
Greece	105 277	324 882	199 144	22 026	45 081
Hungary	241 929	104 705	254 800	446 504	211 927
Irish Republic	1 121 763	1 036 886	1 269 673	1 444 893	1 687 279
Italy	3 324 865	3 368 905	4 102 477	4 331 596	4 655 740
Latvia	623 854	676 383	629 613	1 320 287	1 412 127
Lithuania	1 096 672	993 051	1 069 921	1 289 117	1 214 058
Netherlands	44 000 000	45 300 000	37 100 000	40 800 000	43 000 000
Norway	66 824	71 837	85 471	67 562	66 708
Poland	1 252 285	1 527 892	1 756 513	1 775 291	2 976 252
Portugal	867 165	641 696	790 615	698 717	488 917
Romania	218 348	213 091	370 184	197 911	332 191

Aggregates

Imports continued

tonnes

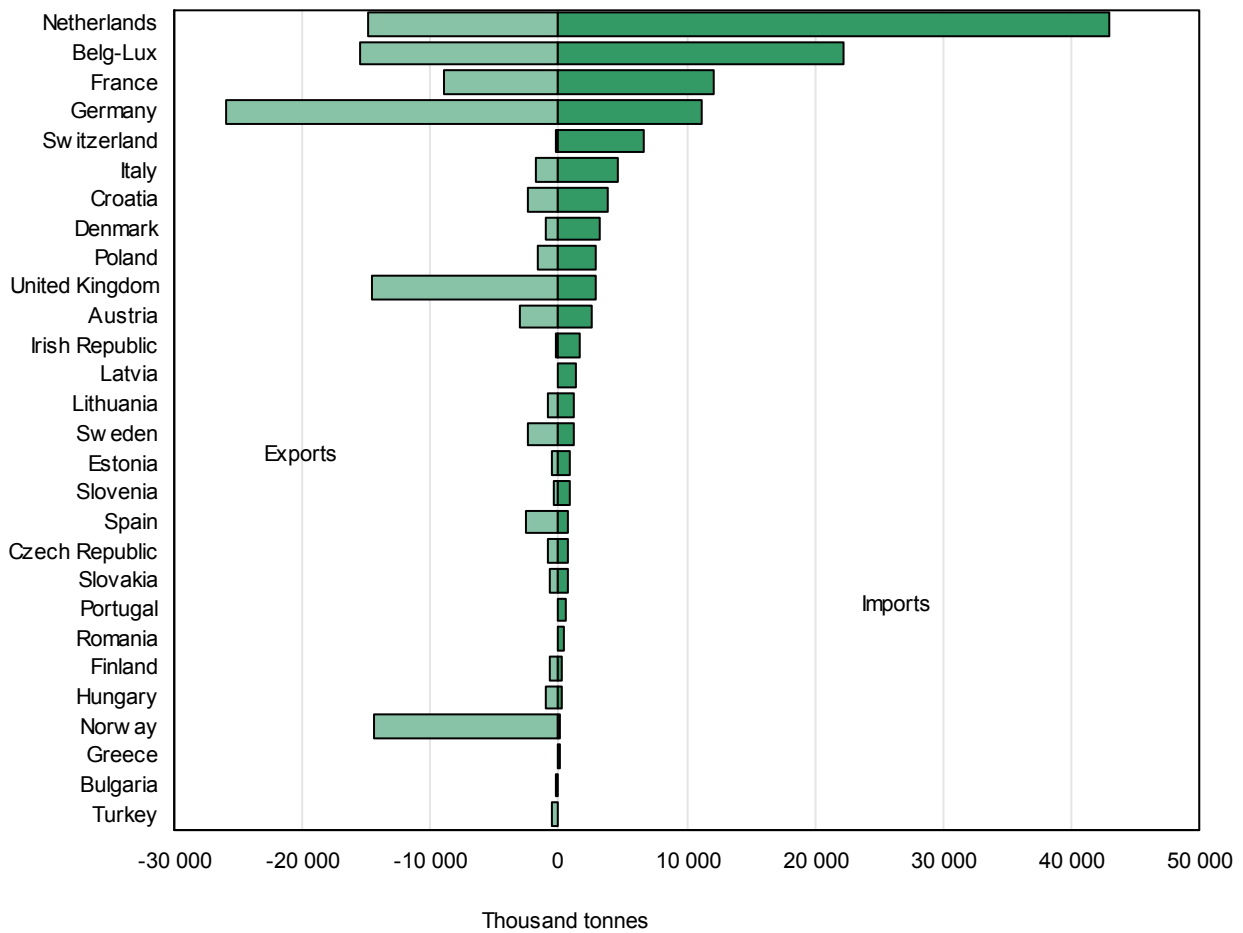
Country	2002	2003	2004	2005	2006
Slovakia	188 874	208 515	294 267	682 608	665 844
Slovenia	447 327	541 189	532 614	364 091	863 881
Spain	1 073 979	1 156 484	1 190 670	1 305 835	762 652
Sweden	838 286	615 470	729 992	810 385	1 135 048
Switzerland	6 554 457	6 134 548	6 413 474	6 261 007	6 700 038
Turkey	2 425	3 660	4 519	7 785	2 607
United Kingdom	986 963	1 494 230	1 543 380	2 160 513	2 905 198

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

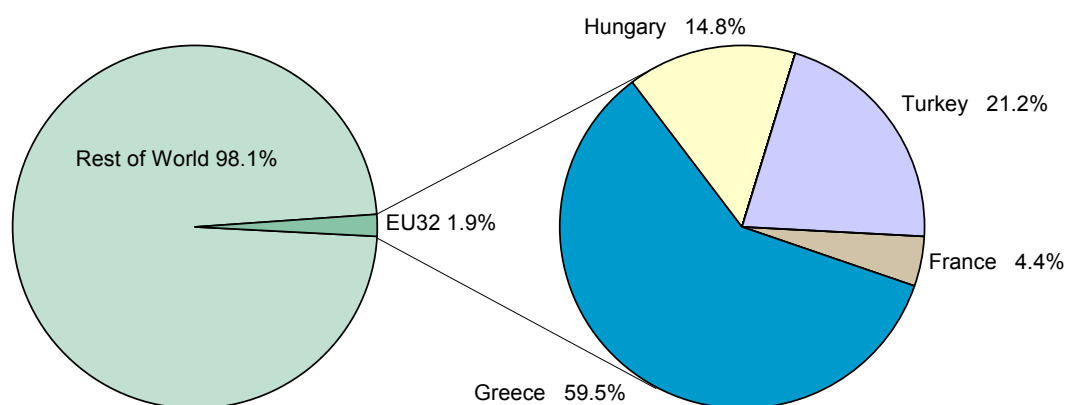
Aggregates - EU32 trade in 2006



Bauxite

- Bauxite, the only source of aluminium that is currently mined, is generated by deep chemical weathering of rocks in tropical to sub-tropical climates. There is limited EU32 production, leaving a very strong dependence on imports from countries outside the EU32.
- 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 2006. Greece was the largest producer within the EU32, with 60% of production. Guyanan bauxite, (refractory grade CIF Rotterdam) traded between US\$205-US\$210/tonne during 2006.

EU32 Production of bauxite 2006



Production of bauxite

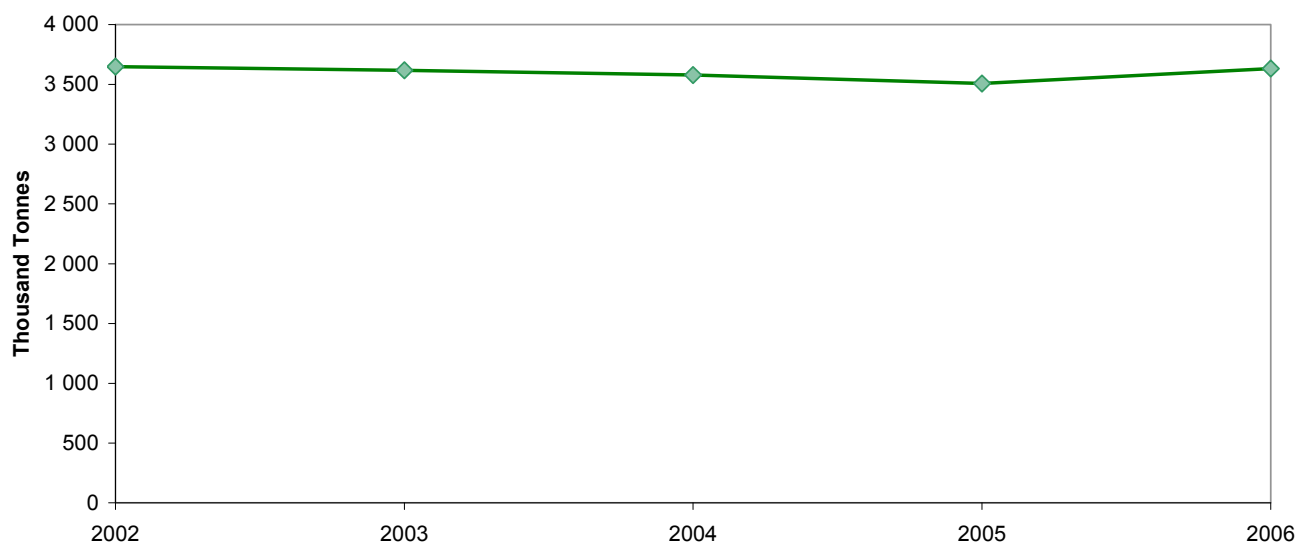
tonnes

Country	2002	2003	2004	2005	2006
France	150 000	170 000	170 000	175 000	160 000
Greece	2 492 000	2 418 000	2 396 065	2 441 443	2 162 900
Hungary	720 000	665 904	646 726	535 337	538 258
Turkey	287 403	364 306	365 836	356 480	771 227
EU32 Total	3 649 000	3 618 000	3 579 000	3 508 000	3 632 000

Note(s):-

(1) This table includes production of refractory bauxite

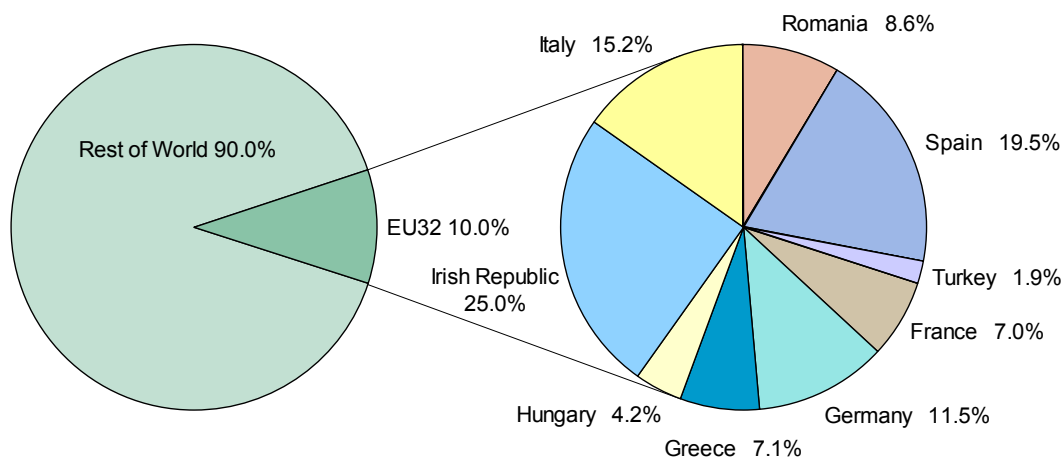
EU32 Production of bauxite 2002 - 06



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. It is used in the paper, petroleum, paint and other industries.
- Australia was the world's largest producer in 2006. The EU32 produced 7.19 million tonnes, representing 9.9% of world production.
- A dramatic rise and fall in the spot prices for metallurgical grade alumina occurred in 2006 with prices reaching a high of over US\$600/ tonne in April and a low of nearly US\$200/ tonne in December.

EU32 Production of alumina 2006



Production of alumina

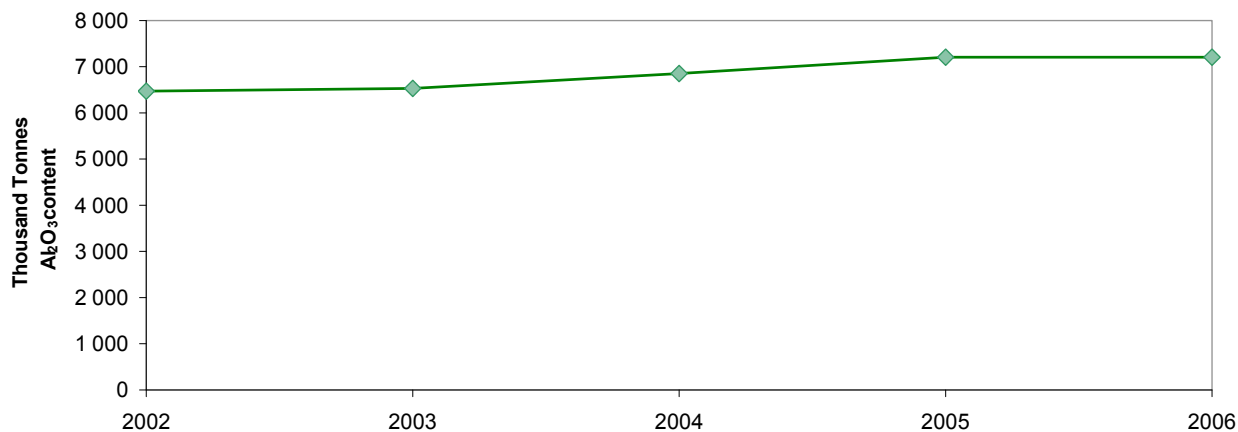
tonnes (Al₂O₃ content)

Country	2002	2003	2004	2005	2006
France	*500 000	*500 000	*500 000	*500 000	*500 000
Germany	*825 000	*830 000	*835 000	*830 000	*830 000
Greece	490 000	496 000	514 000	511 000	510 000
Hungary	293 700	300 000	304 000	*300 000	*300 000
Irish Republic	1 400 000	1 500 000	*1 500 000	*1 800 000	1 800 000
Italy	1 010 000	1 021 000	1 064 000	1 070 000	1 090 000
Romania	361 047	332 853	560 243	689 329	621 973
Spain	1 350 000	1 380 000	*1 400 000	*1 400 000	*1 400 000
Turkey	152 869	160 675	169 991	112 558	140 089
United Kingdom	73 800	—	—	—	—
EU32 Total	6 456 000	6 521 000	6 847 000	7 213 000	7 192 000

Note(s):-

(1) Where possible, figures in this table show the alumina equivalent (Al₂O₃) of total hydrate produced, whether or not calcined

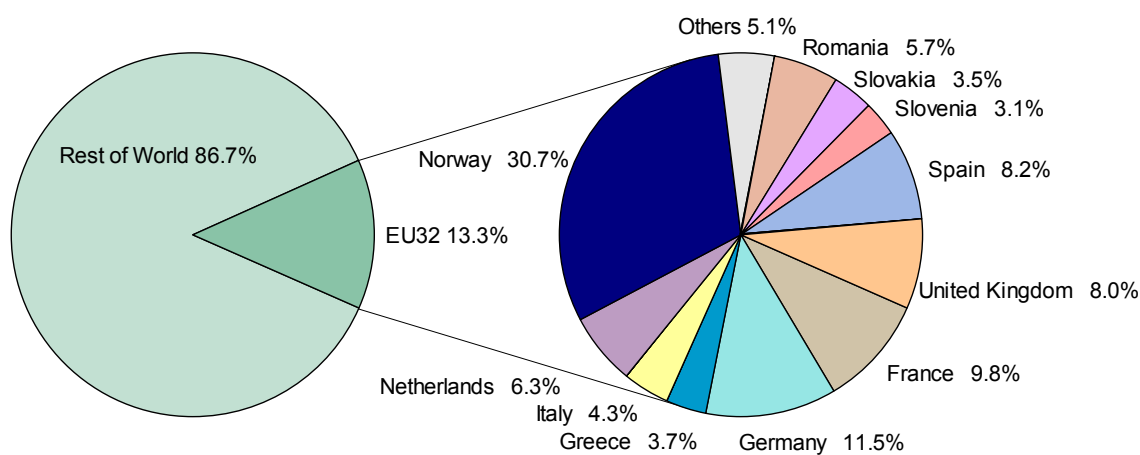
EU32 Production of alumina 2002 - 06



Aluminium metal

- Aluminium is a strong, light-weight metallic element that has many applications. The chief uses are in transportation, packaging, and construction.
- China was the world's largest producer in 2006, with 28% of world production. The EU32 produced 4.5 million tonnes, representing 13% of world production. Norway was the largest EU32 producer.
- The LME daily official spot price for aluminum metal, high grade min. 99.7%, averaged US\$2567/tonne during 2006, an increase of 35% on 2005. The price peaked in May at US\$3273/tonne, fell to US\$2400–2500 in mid-June then, from September, climbed to around US\$2850/tonne at the end of 2006.

EU32 Production of primary aluminium 2006

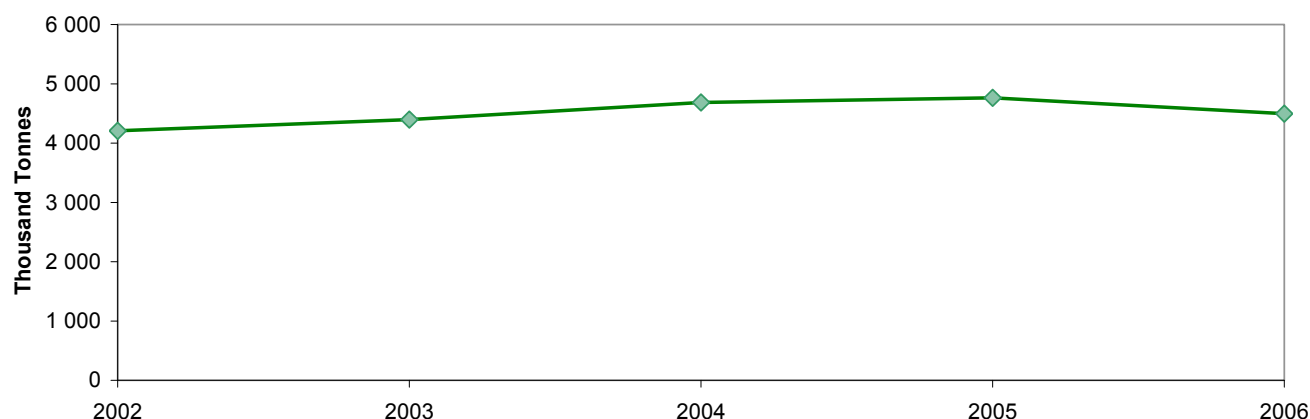


Production of primary aluminium

tonnes

Country	2002	2003	2004	2005	2006
France	463 000	444 000	447 000	440 000	442 100
Germany	652 845	660 783	667 800	647 900	515 500
Greece	165 262	167 797	166 634	165 300	165 000
Hungary	35 294	34 000	34 300	31 000	300
Italy	190 400	191 400	195 400	192 900	194 200
Netherlands	284 364	282 800	330 000	333 820	285 317
Norway	1 044 000	1 180 200	1 318 000	1 390 000	1 381 000
Poland	58 777	57 145	58 931	54 508	57 620
Romania	187 052	196 844	222 347	243 605	258 300
Slovakia	111 600	132 089	156 893	158 400	158 289
Slovenia	87 600	109 800	120 700	138 500	139 600
Spain	380 100	389 100	397 500	395 000	367 400
Sweden	100 125	100 707	100 591	102 107	101 668
Switzerland	40 224	43 865	44 879	44 800	12 000
Turkey	62 501	63 140	64 002	59 000	60 000
United Kingdom	344 318	342 748	359 631	368 477	360 325
EU32 Total	4 207 000	4 396 000	4 685 000	4 765 000	4 499 000

EU32 Production of primary aluminium 2002 - 06



Exports of bauxite, alumina and aluminium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought	14 271	16 150	13 341	6 616	7 630
Unwrought alloys	94 594	87 528	122 693	125 796	119 058
Scrap	57 505	52 564	71 362	67 434	80 200
Belgium-Luxembourg					
Bauxite	73 550	98 961	54 734	46 717	53 680
Alumina	8 955	7 058	...	10 714	18 151
Unwrought	234 880	157 800	266 682	267 811	210 559
Unwrought alloys	52 402	40 919	42 010	38 889	29 871
Scrap	151 468	133 871	137 374	149 914	186 613
Bulgaria					
Unwrought alloys	2 152	1 971	4 616	5 254	11 692
Scrap	22 994	21 838	22 036	21 902	29 245
Croatia					
Bauxite	3 869	1 478	566	276	48
Scrap	10 187	10 914	12 024	15 927	19 832
Cyprus					
Unwrought	1 028	381	316	62	...
Scrap	2 813	2 966	3 699	4 578	4 880
Czech Republic					
Unwrought (a)	34 611	43 045	48 698	48 885	45 876
Scrap	33 636	33 410	43 223	39 297	53 986
Denmark					
Alumina	4 520	4 556	7 146	3 579	3 470
Unwrought alloys	23 363	17 538	14 019	23 509	31 768
Scrap	45 342	36 738	55 407	70 828	62 734
Estonia					
Unwrought (a)	6 095	11 986	5 479	2 414	3 013
Scrap	9 108	9 712	8 062	10 686	8 263
Finland					
Unwrought alloys	23 529	18 557	17 254	14 107	11 411
Scrap	15 189	16 720	22 946	21 053	25 921
France					
Bauxite	14 013	253	2 985	5 195	46 042
Alumina	167 309	188 951	232 762	255 392	224 866
Alumina hydrate	103 258	125 437	144 331	139 694	168 250
Unwrought	81 601	63 659	70 010	77 097	65 943
Unwrought alloys	75 069	75 318	78 047	95 700	148 253
Scrap	274 551	257 279	299 226	314 243	345 107
Germany					
Bauxite	42 524	26 666	30 647	28 087	30 772
Alumina	201 103	308 210	294 034	204 075	313 586
Alumina hydrate	488 918	472 091	528 700	527 900	717 433
Unwrought	59 597	48 570	58 365	60 757	72 132
Unwrought alloys	327 962	340 772	354 998	330 843	360 157
Scrap	499 791	556 405	544 522	583 987	675 261

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Greece					
Bauxite	535 074	701 911	925 282	1 136 505	912 093
Alumina	327 476	358 955	404 852	439 374	457 726
Alumina hydrate	12 261	11 568	3 760	2 944	8 239
Unwrought	56 730	58 714	61 846	60 964	64 487
Unwrought alloys	6 142	8 880	8 597	15 017	18 804
Scrap	12 794	10 731	13 777	15 205	19 105
Hungary					
Alumina	120 174	125 433	170 664	142 470	170 030
Alumina hydrate	121 265	90 768	80 314	75 811	90 705
Unwrought (a)	11 730	16 231	25 475	22 635	28 884
Scrap	24 428	27 022	38 684	41 192	34 986
Irish Republic					
Alumina	1 564 481	2 405 797	1 388 723	1 459 036	1 534 845
Alumina hydrate	22 656	51 149	44 645	85 062	115 676
Unwrought alloys	4 389	4 569	3 776	3 542	4 637
Scrap	19 240	12 307	15 367	16 475	18 784
Italy					
Bauxite	49 307	9 291	40 512	121 029	12 082
Alumina	721 558	682 587	606 416	651 704	748 594
Alumina hydrate	35 623	34 820	24 895	26 652	26 668
Unwrought	5 986	3 385	4 203	8 742	20 315
Unwrought alloys	35 982	31 082	43 578	57 573	73 137
Scrap	17 707	20 358	26 630	35 904	50 024
Latvia					
Unwrought alloys	37 243	34 081	39 368	34 697	18 180
Scrap	1 477	747	748	910	1 767
Lithuania					
Unwrought alloys	4 083	5 222	3 943	3 922	3 410
Scrap	24 276	15 140	11 953	7 210	5 640
Macedonia					
Scrap	626	840	1 107	2 105	2 788
Netherlands					
Bauxite	35 719	58 848	96 740	93 993	107 660
Alumina	125 292	51 228	267 947	264 116	301 767
Alumina hydrate	37 548	48 026	42 398	48 643	45 480
Unwrought	356 282	408 302	314 462	304 993	370 471
Unwrought alloys	225 385	227 283	320 583	304 675	341 439
Scrap	186 791	187 522	234 761	265 755	334 426
Norway					
Unwrought	135 792	150 101	150 479	147 295	126 841
Unwrought alloys	992 055	1 212 372	1 333 251	1 365 929	1 412 569
Scrap	40 797	37 566	39 742	38 218	42 804
Poland					
Unwrought (a)	32 349	52 132	70 740	81 962	80 266
Scrap	65 404	63 022	71 525	82 875	107 939
Portugal					
Unwrought alloys	84 709	111 732	105 837	140 505	152 591
Scrap	24 671	19 513	28 576	41 797	38 026
Romania					
Alumina	5 128	155 094	209 950	261 862	137 753
Unwrought (a)	88 022	35 094	79 508	39 254	22 782
Scrap	6 963	5 787	4 703	4 829	11 132
Slovakia					
Unwrought	2 225	3 098	6 827	15 302	66 893
Unwrought alloys	156 343	169 698	183 346	159 134	93 141
Scrap	5 417	5 722	7 594	8 042	9 876
Slovenia					
Alumina	11 760	18 072	24 277	205 606	237 366
Unwrought alloys	77 362	101 446	124 069	123 555	133 005
Scrap	12 329	11 619	14 971	21 103	27 584

Aluminium and Bauxite

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Spain					
Bauxite	3 936	2 521	4 159	3 821	3 647
Alumina	179 478	369 353	491 808	561 125	511 992
Alumina hydrate	11 685	214 263	241 910	264 829	258 854
Unwrought	2 429	915	1 024	3 002	8 245
Unwrought alloys	68 484	87 356	102 146	111 992	128 262
Scrap	37 236	41 646	35 021	36 688	41 923
Sweden					
Alumina	1 506	1 939	6 160	14 133	14 481
Unwrought	2 529	101	22 096	9 390	910
Unwrought alloys	78 675	75 903	105 752	88 311	112 575
Scrap	70 721	109 170	79 433	69 166	67 879
Switzerland					
Unwrought (a)	7 139	775	8 180	14 499	21 257
Scrap	96 217	96 860	108 536	122 729	140 657
Turkey					
Alumina	23 425	25 573	29 915	45 838	33 430
Unwrought (a)	3 745	4 429	8 076	27 039	19 137
Scrap	10 582	8 036	9 955	12 534	6 358
United Kingdom					
Bauxite	22 740	...	6 576	4 237	28 636
Alumina	7 768	(b) *5 000	5 766	4 336	9 979
Alumina hydrate	20 170	(b) *25 800	(b) *35 500	(b) *20 600	(b) *1 200
Unwrought	9 403	1 559	29 949	48 684	17 530
Unwrought alloys	241 799	270 701	306 372	329 691	331 598
Scrap	243 894	295 642	319 217	474 587	385 211

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	2002	2003	2004	2005	2006
Austria					
Bauxite	21 354	31 082	36 791	36 123	25 291
Alumina	41 141	43 318	23 636	41 269	45 777
Alumina hydrate	6 538	7 779	6 372	10 125	12 821
Unwrought	136 767	141 841	106 348	82 597	113 047
Unwrought alloys	170 541	184 478	229 607	214 611	235 053
Scrap	(b) *129 700	(b) *143 400	128 798	150 412	157 256
Belgium-Luxembourg					
Bauxite	106 310	102 691	82 208	87 376	59 874
Alumina	9 983	11 350	12 942	10 879	28 030
Alumina hydrate	43 902	43 941	33 798	37 831	45 723
Unwrought	473 246	382 266	513 835	497 013	451 309
Unwrought alloys	196 413	217 309	235 761	265 937	286 345
Scrap	157 885	146 723	157 812	158 799	197 942
Bulgaria					
Alumina	941	1 443	1 663	1 401	2 039
Unwrought (a)	22 890	28 194	35 515	40 748	66 644
Scrap	...	...	435	1 449	2 179
Croatia					
Bauxite	42 464	71 335	48 302	112 007	80 441
Unwrought	32 229	21 289	47 437	56 509	53 021
Unwrought alloys	8 326	7 329	9 672	14 915	18 893
Cyprus					
Unwrought alloys	7 629	7 697	10 858	9 898	12 481

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Czech Republic					
Bauxite	15 391	13 871	20 922	24 315	24 829
Alumina	22 117	23 142	26 898	28 458	24 078
Alumina hydrate	11 981	12 767	17 215	10 898	9 782
Unwrought	64 108	66 747	75 289	69 977	74 392
Unwrought alloys	78 849	82 823	90 688	96 702	104 238
Scrap	23 986	24 336	28 542	34 226	48 937
Denmark					
Bauxite	6 140	11 297	13 801	9 148	9 025
Alumina	20 228	17 896	23 666	21 979	28 709
Unwrought (a)	61 538	65 386	75 233	70 617	79 573
Scrap	52 460	41 373	39 949	63 678	64 803
Estonia					
Unwrought (a)	6 086	10 428	5 859	1 686	7 021
Scrap	751	1 052	431	453	1 338
Finland					
Bauxite	3 790	6 027	4 782	3 661	6 366
Alumina	2 042	1 904	2 220	2 659	2 327
Alumina hydrate	44 570	24 958	37 361	28 300	31 024
Unwrought	13 704	3 534	3 295	4 057	1 145
Unwrought alloys	24 253	33 174	37 999	40 510	39 755
Scrap	30 310	23 445	18 901	15 537	14 906
France					
Bauxite	1 347 713	1 786 905	1 507 504	1 799 671	1 664 642
Alumina	670 046	704 393	644 513	655 246	667 146
Alumina hydrate	43 727	44 743	41 187	41 682	45 085
Unwrought	148 344	165 490	144 053	150 798	198 042
Unwrought alloys	325 980	324 997	369 795	366 369	394 929
Scrap	133 794	149 876	143 833	135 611	208 142
Germany					
Bauxite	1 950 542	1 907 966	2 119 259	2 435 244	2 143 631
Alumina	867 297	1 047 728	1 107 265	999 798	912 564
Alumina hydrate	378 146	225 998	204 721	231 124	219 035
Unwrought	721 430	796 479	628 038	648 764	754 311
Unwrought alloys	945 177	1 099 136	1 170 875	1 121 715	1 318 713
Scrap	483 052	462 320	462 580	438 066	539 367
Greece					
Bauxite	246 155	375 275	247 358	206 870	268 899
Alumina	952	889	905	1 049	71 073
Unwrought	79 463	98 093	116 074	121 266	125 541
Unwrought alloys	39 444	46 193	51 522	68 958	62 828
Scrap	17 329	15 127	16 631	18 083	20 030
Hungary					
Bauxite	116 037	164 930	189 528	279 660	243 873
Alumina	3 188	17 819	8 751	15 638	2 558
Unwrought	199 392	199 978	337 995	109 382	109 506
Unwrought alloys	25 328	27 925	32 021	54 362	72 573
Scrap	17 071	16 764	13 111	17 164	49 076
Irish Republic					
Bauxite	3 732 789	3 418 940	3 740 006	3 606 983	3 368 967
Alumina	7 544	6 718	6 626	4 252	7 470
Unwrought (a)	6 750	6 503	6 603	4 092	2 756
Scrap	503	294	490	117	18
Italy					
Bauxite	2 256 065	2 169 206	2 407 108	2 602 224	2 618 296
Alumina	126 299	123 514	142 931	147 537	137 469
Alumina hydrate	134 724	128 280	151 086	155 718	156 231
Unwrought	381 046	425 165	434 802	426 721	481 919
Unwrought alloys	400 139	446 358	468 500	463 411	504 142
Scrap	300 058	327 721	346 736	326 901	366 623
Latvia					
Unwrought (a)	2 052	4 940	6 100	1 810	577
Scrap	24 125	22 149	27 340	16 970	6 505
Lithuania					
Alumina	9 431	6 673	10 388	13 079	11 176
Scrap	7 907	4 435	1 131	1 841	1 964

Aluminium and Bauxite

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Macedonia					
Unwrought (a)	759	528	1 753	1 610	2 941
Netherlands					
Bauxite	92 667	120 787	231 213	169 012	118 203
Alumina	554 967	634 626	671 167	654 487	440 195
Alumina hydrate	141 991	191 165	181 328	223 823	205 902
Unwrought	332 873	367 227	349 481	370 979	650 035
Unwrought alloys	193 099	216 251	249 182	287 504	321 582
Scrap	150 466	138 051	174 969	189 722	197 160
Norway					
Bauxite	20 898	22 147	9 035	16 601	11 384
Alumina	2 063 999	2 267 237	2 620 149	2 723 588	2 730 064
Alumina hydrate	42 984	42 487	42 775	45 957	43 721
Unwrought	225 972	277 122	325 514	328 722	352 293
Unwrought alloys	56 209	24 473	29 974	42 056	34 783
Scrap	100 006	113 228	70 430	20 806	26 326
Poland					
Bauxite	49 504	67 966	82 233	59 758	61 638
Alumina	97 085	120 733	124 274	102 845	114 800
Alumina hydrate	25 562	25 572	26 927	29 538	27 358
Unwrought	74 302	88 008	85 010	62 403	76 996
Unwrought alloys	73 770	94 090	119 305	140 792	167 914
Scrap	9 616	13 472	31 536	39 907	52 498
Portugal					
Alumina	9 820	10 152	9 257	6 250	7 760
Unwrought	5 276	7 903	10 903	13 941	16 292
Unwrought alloys	167 619	185 279	200 335	224 631	237 617
Scrap	9 043	1 755	4 214	2 651	1 487
Romania					
Bauxite	843 557	821 036	1 532 335	1 655 045	1 597 023
Alumina	31 763	223 466	125 902	29 350	43 594
Unwrought (a)	...	3 145	7 449	2 849	4 151
Slovakia					
Bauxite	8 211	8 300	7 991	3 669	5 886
Alumina	221 205	253 825	366 784	307 756	314 576
Unwrought (a)	53 060	49 945	45 913	31 683	31 521
Scrap	11 508	10 593	13 701	12 567	8 550
Slovenia					
Bauxite	35 020	51 683	44 560	47 935	51 064
Alumina	239 473	252 351	264 319	450 273	480 454
Alumina hydrate	23 219	22 878	14 131	23 581	24 102
Unwrought	51 670	63 688	57 362	73 137	48 337
Unwrought alloys	33 274	40 332	43 403	46 782	60 484
Scrap	13 262	13 676	27 390	47 381	50 865
Spain					
Bauxite	2 887 349	2 781 769	3 329 441	3 224 101	3 007 043
Alumina	53 469	50 403	55 184	58 627	56 961
Alumina hydrate	19 509	14 595	30 429	43 246	49 725
Unwrought	55 894	116 742	91 382	110 257	95 436
Unwrought alloys	166 771	166 538	235 123	223 627	303 607
Scrap	70 908	66 466	86 553	99 459	103 839
Sweden					
Bauxite	1 920	3 317	28 758	3 171	2 846
Alumina	172 761	196 834	205 734	191 504	201 496
Alumina hydrate	55 379	54 825	66 156	62 549	56 535
Unwrought	13 991	21 584	29 493	17 916	7 959
Unwrought alloys	106 217	97 276	120 732	117 202	135 270
Scrap	18 450	16 255	24 082	24 309	32 198
Switzerland					
Bauxite	7 653	5 881	8 066	9 929	5 901
Alumina	81 002	93 357	87 235	88 358	21 431
Alumina hydrate	17 953	15 340	16 945	16 823	18 333
Unwrought	66 958	60 791	73 413	75 987	111 780
Unwrought alloys	52 470	64 351	59 125	56 059	79 666
Scrap	12 565	11 327	20 734	27 617	26 711

Imports continued

tonnes

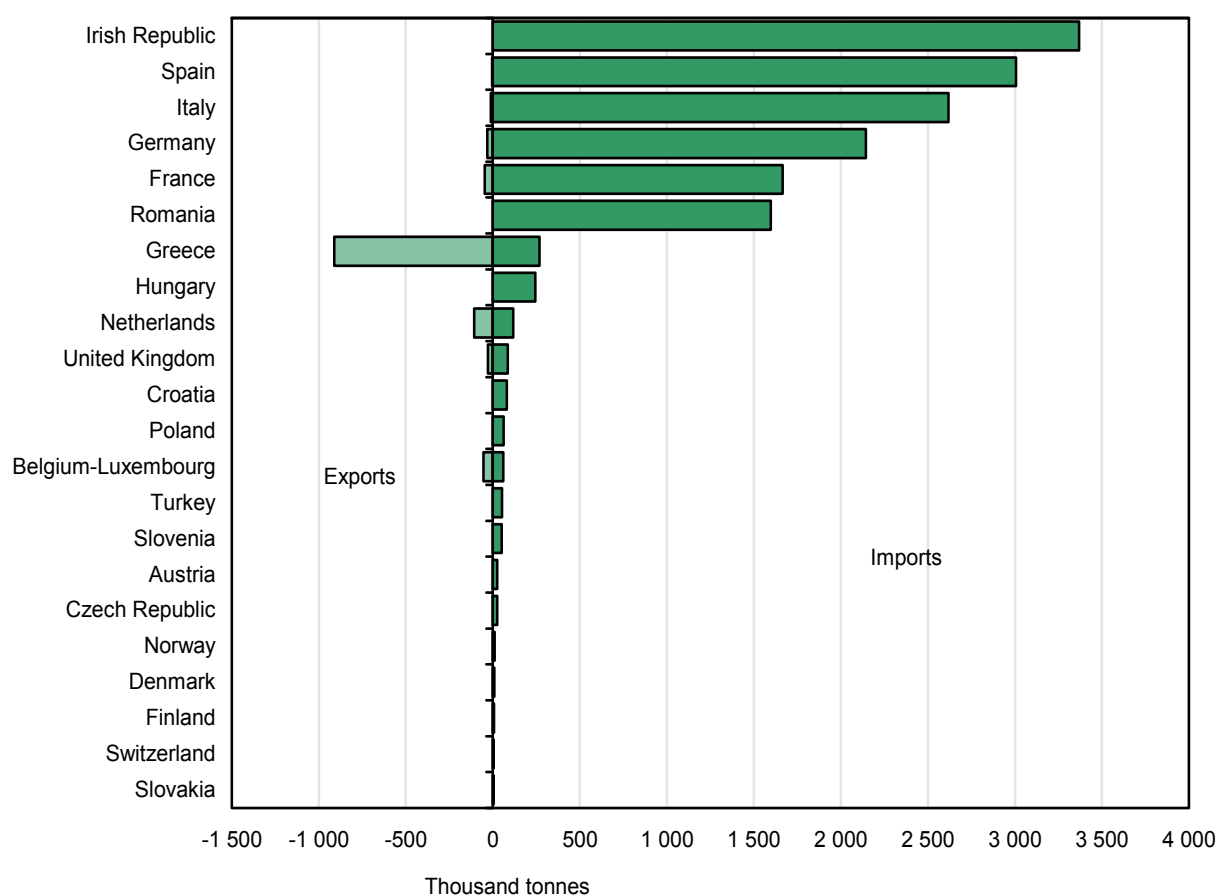
Country	2002	2003	2004	2005	2006
Turkey					
Bauxite	33 361	39 129	34 592	46 016	52 627
Alumina	16 311	26 096	19 341	19 665	23 179
Unwrought	109 683	160 378	182 113	236 076	245 876
Unwrought alloys	84 829	114 881	144 836	146 853	168 498
Scrap	9 478	14 850	11 648	16 723	7 061
United Kingdom					
Bauxite	...	...	122 021	103 522	86 882
Alumina	(c) 798 479	(b) *828 300	748 933	755 443	823 115
Alumina hydrate	...	(b) *143 000	124 451	130 321	101 126
Unwrought	212 046	163 573	116 545	114 189	169 259
Unwrought alloys	159 310	129 451	118 398	87 063	122 748
Scrap	117 954	105 061	78 309	116 285	137 626

Note(s) :-

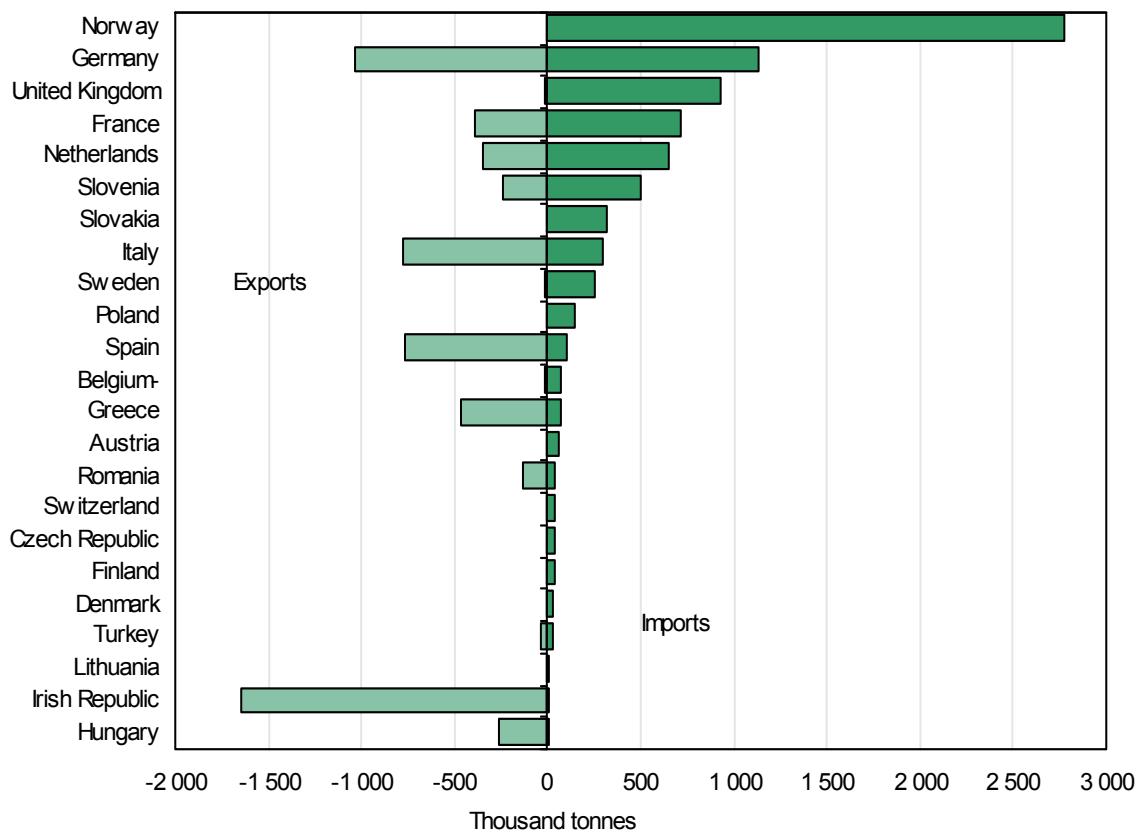
- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
(2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars, etc.
(3) Metal traded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

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

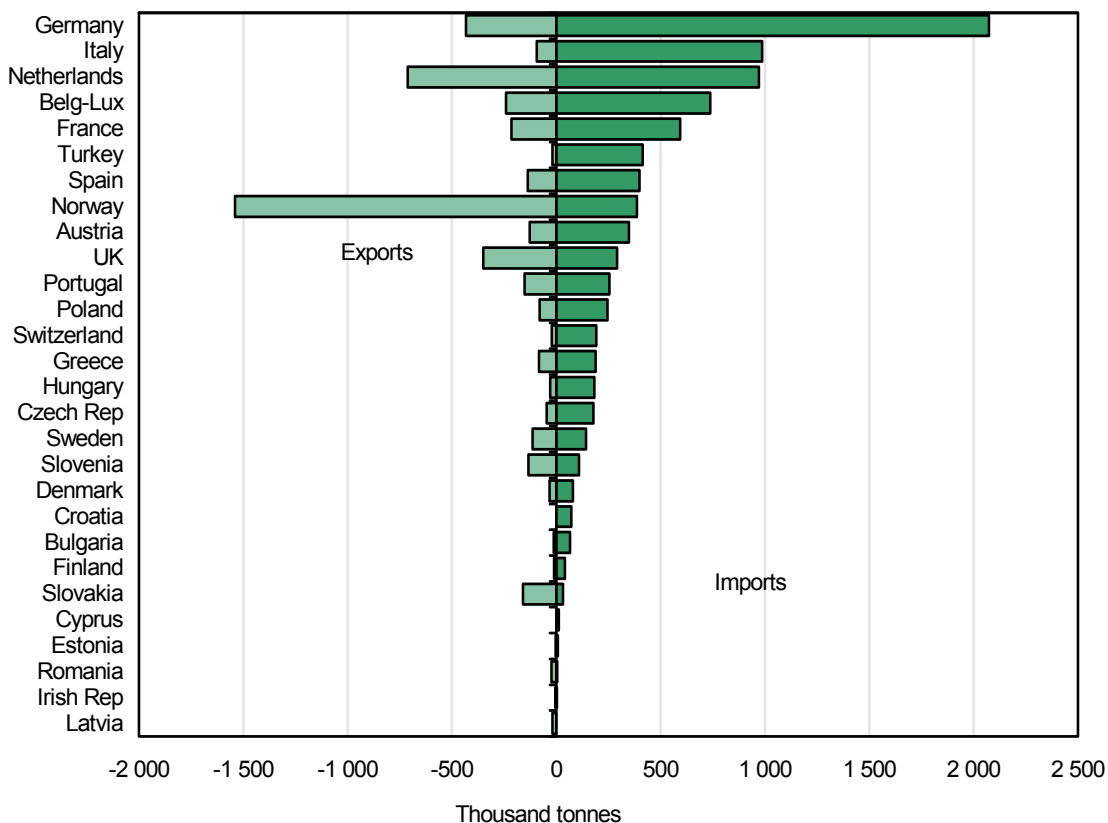
Bauxite - EU32 trade in 2006



Alumina and alumina hydrate - EU32 trade in 2006



Aluminium metal - EU32 trade in 2006



Antimony

- Antimony is a toxic metallic element with several specialised uses. It is frequently alloyed with lead, to greatly increase 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 2006, with 86% 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 2006 the price of antimony metal (free market in warehouse) averaged US\$5176/tonne.

Mine production of antimony

tonnes (metal content)

Country	2002	2003	2004	2005	2006
Turkey	*150	*400	*700	*1 200	*1 200

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	2002	2003	2004	2005	2006
Austria					
Metal	80	16	19	1 089	3
Belgium-Luxembourg					
Ores & concentrates	67	25	...	77	360
Metal	48	181	493	693	1 580
Oxide	(a) *11 700	12 063	12 443	11 526	12 661
Czech Republic					
Oxide	74	59	116	145	108
France					
Metal	104	8	79	186	53
Oxide	3 391	4 352	4 540	5 177	4 964
Germany					
Metal	10	27	12	15	30
Oxide	543	683	786	724	892
Greece					
Metal	22	49	3	141	160
Italy					
Ores & concentrates	3	7	100	274	250
Metal	70	1	3	10	3
Oxide	504	340	207	94	254
Netherlands					
Metal	115	315	212	570	886
Oxide	345	270	652	664	780
Portugal					
Metal	—	...	26	1	646
Spain					
Metal	10	41	409	13	21
Oxide	934	622	706	859	2 031
Turkey					
Ores & concentrates	210	650	700	920	261
Metal	...	7	25	63	—
United Kingdom					
Metal	252	65	88	54	27
Oxide	1 879	1 413	663	621	397

Note(s):-

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

(b) Years ended 30 June of that stated

Antimony

Imports of antimony

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	270	120	53	74	51
Oxide	190	207	316	263	271
Belgium-Luxembourg					
Ores & concentrates	491	6	13	5	1
Metal	13 379	11 409	12 225	10 722	11 543
Oxide	1 583	1 615	1 708	1 735	2 524
Bulgaria					
Metal	48	52	47	...	34
Czech Republic					
Metal	76	45	14	72	82
Oxide	626	365	557	588	503
Finland					
Oxide	238	238	248	199	256
France					
Metal	6 645	5 241	8 486	7 766	8 919
Oxide	2 093	1 972	2 096	2 243	2 092
Germany					
Metal	309	149	178	148	421
Oxide	6 915	6 707	7 072	6 560	8 305
Greece					
Ores & concentrates	44	76	119	95	131
Metal	40	40	46	24	...
Hungary					
Oxide	178	150	186	180	139
Irish Republic					
Metal	31	15	13	0	—
Italy					
Ores & concentrates	727	786	879	1 005	829
Metal	1 551	1 377	743	164	279
Oxide	5 037	4 314	5 528	5 543	6 061
Netherlands					
Metal	268	511	817	705	651
Oxide	1 424	1 481	2 932	3 717	35 127
Norway					
Metal	3	8	0	71	11
Oxide	234	351	775	305	507
Poland					
Metal	10	49	80	28	158
Oxide	711	920	1 042	1 231	1 338
Portugal					
Metal	10	10	6	5	2
Oxide	254	147	242	137	166
Romania					
Metal	64	65	62	55	43
Slovenia					
Metal	118	52	84	137	98
Spain					
Ores & concentrates	145	153	105	108	175
Metal	2 314	1 516	2 270	1 881	1 596
Oxide	544	519	5 656	808	984
Sweden					
Metal	176	269	234	199	337
Oxide	485	232	328	377	296
Switzerland					
Ores & concentrates	154	89	5 004	1 722	201
Metal	52	50	93	58	56
Oxide	720	927	1 174	1 026	1 141
Turkey					
Metal	98	141	87	40	46
Oxide	314	294	460	377	135
United Kingdom					
Metal	183	290	410	60	81
Oxide	3 164	2 712	2 976	2 048	2 291

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 2006 with an estimated 58% of world production.
- In 2006 the price of metallic arsenic (min. 99% As) averaged US\$0.55/lb.

Production of white arsenic

tonnes

Country	2002	2003	2004	2005	2006
Belgium	*1 000	*1 000	*1 000	*1 000	*1 000
France	*1 000	*1 000	*1 000	*1 000	*1 000
Germany	*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	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Metallic arsenic	62	27	10	101	2 542
France					
Metallic arsenic	...	0	...	8	15
Germany					
Metallic arsenic	9	8	14	20	20
Italy					
Metallic arsenic	—	—	—	16	2
Netherlands					
Metallic arsenic	45	64	115	50	33
United Kingdom					
Metallic arsenic	5	0	0	1	1

Note(s):-

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

Arsenic

Imports of arsenic

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metallic arsenic	16	5	...	2	1
Belgium-Luxembourg					
Metallic arsenic	75	90	95	164	105
Czech Republic					
Metallic arsenic	24	20	8	9	11
France					
Metallic arsenic	17	4	9	21	20
Germany					
Metallic arsenic	5	5	4	2	...
Greece					
Metallic arsenic	31	16	21	35	16
Irish Republic					
Metallic arsenic	127	47	...	158	125
Italy					
Metallic arsenic	91	111	84	54	52
Netherlands					
Metallic arsenic	77	61	110	85	20
Norway					
Metallic arsenic	36	0	—	—	...
Poland					
White arsenic	36	32	...	...	...
Metallic arsenic	30	—	14	39	21
Spain					
Metallic arsenic	136	114	92	112	143
Sweden					
Metallic arsenic	19	17	13	6	...
Switzerland					
Metallic arsenic	4	4	2	5	2
Turkey					
Metallic arsenic	49	78	48	82	22
United Kingdom					
Metallic arsenic	86	155	165	3	49

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. The largest producer in the world is Russia with 40% of world production.
- In 2006 the EU32 countries were entirely dependent on imports of unmanufactured asbestos. The price of asbestos (U.S. Exports) was around US\$254/tonne in 2006, a decrease of 23% compared to 2005.

Production of asbestos

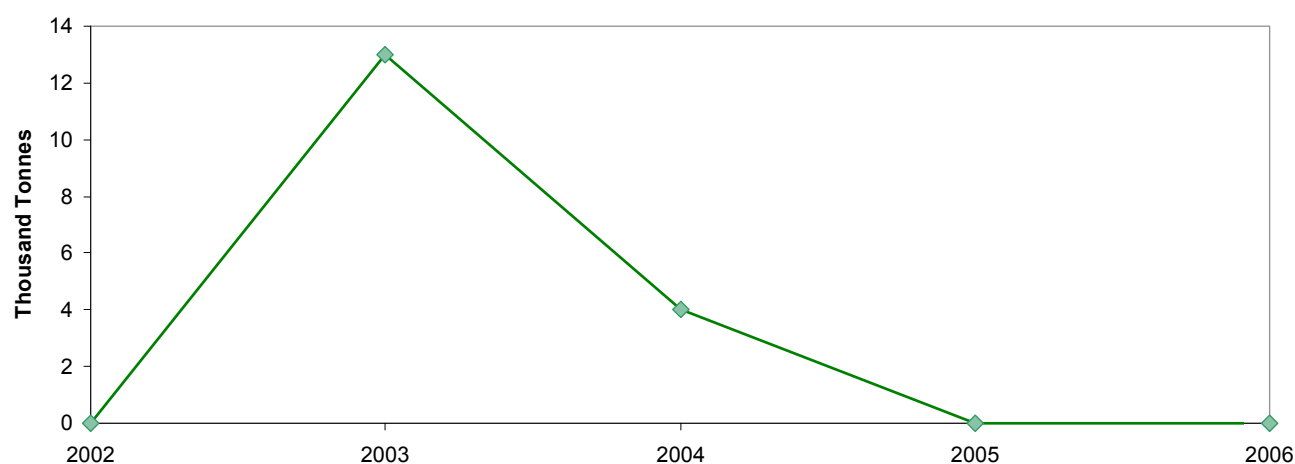
tonnes

Country	2002	2003	2004	2005	2006
Greece	—	*13 000	*4 000	—	—

Note(s):-

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

EU32 Production of asbestos 2002 - 06



Exports of unmanufactured asbestos

tonnes

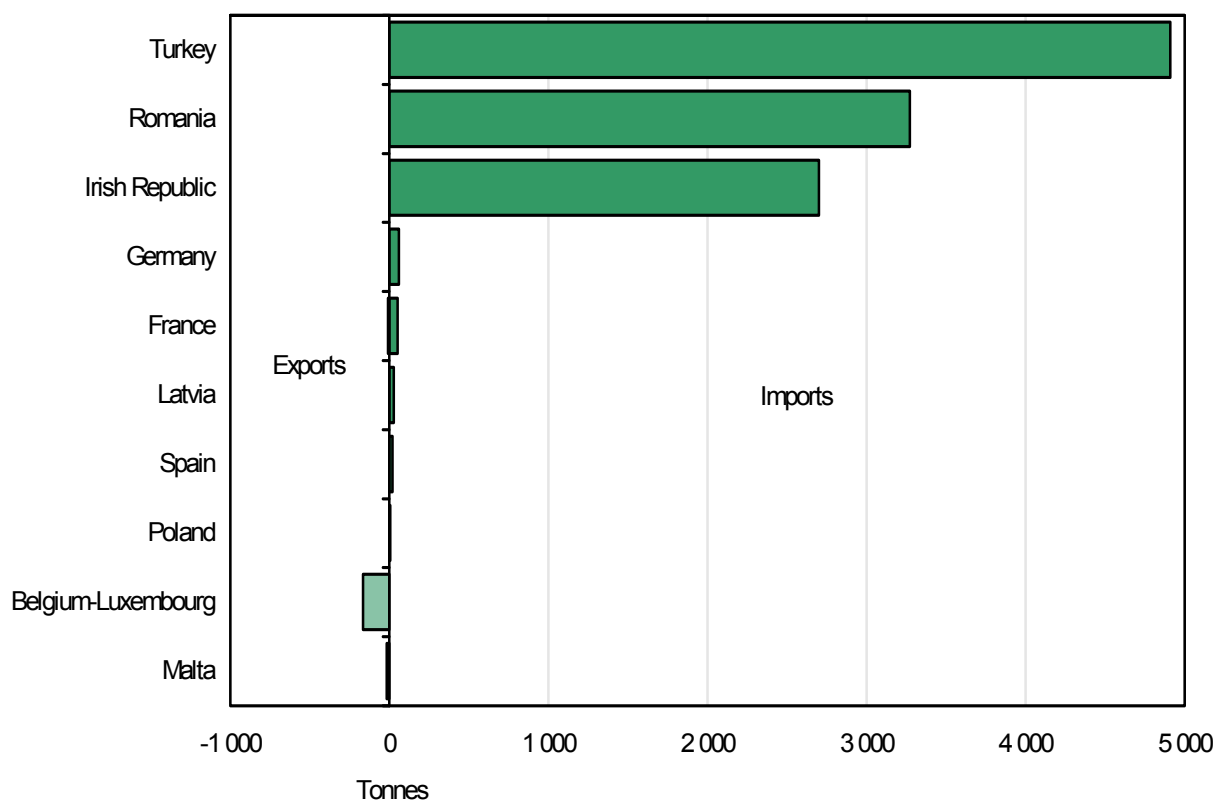
Country	2002	2003	2004	2005	2006
Belgium-Luxembourg	—	—	3	...	164
France	...	5	31	—	8
Greece	29	12 576	4 256	—	...
Italy	...	...	...	20	5
Malta	...	...	...	65	16
Turkey	3	42 000	0	65	1

Imports of unmanufactured asbestos

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg	...	1	63	...	1
Bulgaria	160	50	196	...	...
Croatia	3 274	1 958	3 251	2 429	...
Czech Republic	785	1 464	2 891	0	...
Estonia	61	...	...	...	...
France	0	3	8	5	52
Germany	199	59	69	98	61
Greece	1 988	91	—	...	...
Hungary	740	574	...	...	...
Irish Republic	19	—	475	2 794	2 700
Latvia	...	...	34	4	28
Poland	19	—	16	6	6
Portugal	7 137	1 568	474	356	...
Romania	12 137	11 859	13 036	9 077	3 272
Slovenia	...	...	10	25	...
Spain	3 085	130	192	23	20
Turkey	13 977	14 645	13 509	12 373	4 909
United Kingdom	118	3	2 150	—	0

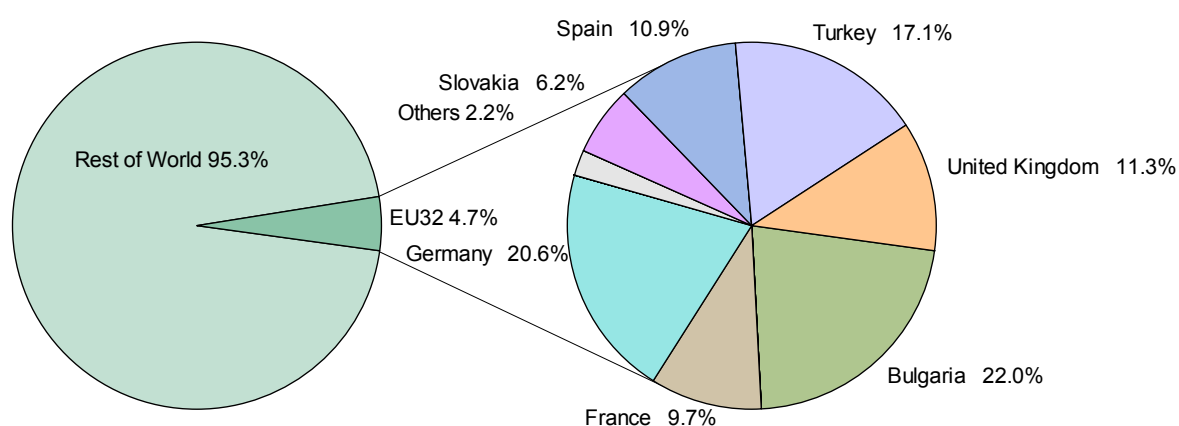
Asbestos - EU32 trade in 2006



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 EU32 countries contributed 5% of world barytes production in 2006. The largest producer amongst the EU32 is Bulgaria. The largest world producer is China, which accounted for 52% of world production in 2006.
- Two main grades of barytes are traded on world markets: paint grade (min. 99%) and drilling fluid grade (min. 95%). In 2006 paint grade micronised barytes averaged £145/tonne delivered into the UK. Drilling fluid grade barytes delivered to Aberdeen ranged between £60-65/tonne.

EU32 Production of barytes 2006



Production of barytes

tonnes

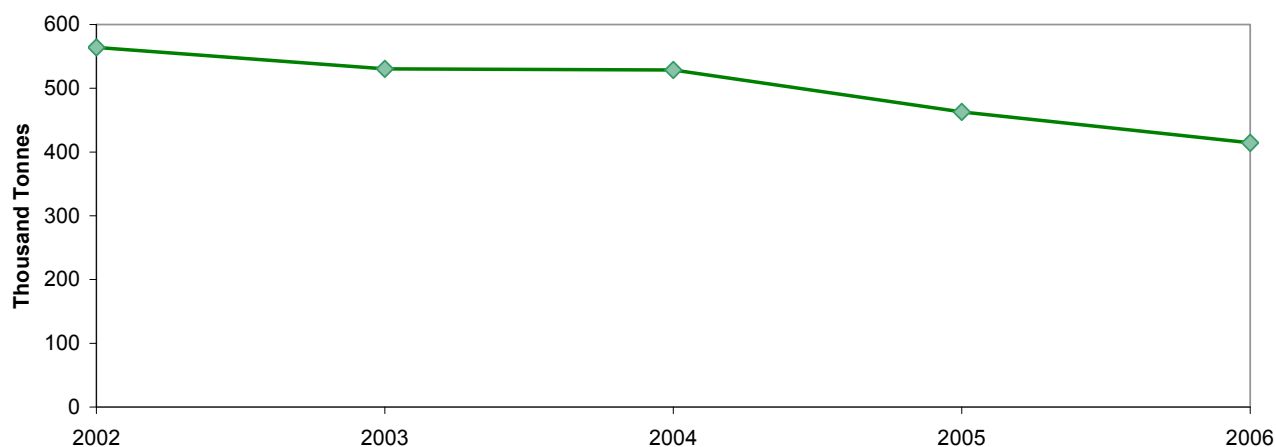
Country	2002	2003	2004	2005	2006
Bulgaria	123 200	91 200	75 400	79 500	91 000
France	85 200	81 100	81 000	*81 000	*40 000
Germany	100 993	109 506	93 624	88 591	85 524
Italy	10 215	12 214	12 258	7 312	*7 000
Poland	2 708	3 030	3 183	2 357	2 034
Romania	100	23	—	—	—
Slovakia	25 820	12 000	27 063	26 589	25 800
Spain	50 071	44 660	40 776	44 643	45 000
Turkey	106 943	119 648	134 504	70 925	*71 000
United Kingdom	*59 000	*57 000	*61 000	*62 000	*47 000
EU32 Total	564 000	530 000	529 000	463 000	414 000

Note(s):-

(1) This table may include small quantities of witherite

Barytes

EU32 Production of barytes 2002 - 06



Exports of barytes

tonnes

Country	2002	2003	2004	2005	2006
Austria	1 197	479	2 737	1 407	5 830
Belgium-Luxembourg	1 781	1 424	3 646	4 016	19 004
Bulgaria	123 224	91 215	75 393	76 644	74 523
Czech Republic	986	895	616	557	275
France (a)	*30 200	*55 500	*75 700	*57 700	*36 300
Germany	32 297	32 546	32 383	32 375	33 947
Italy	2 076	224	1 951	505	1 000
Netherlands	98 393	91 083	77 269	52 444	37 392
Norway	5 234	11 105	15 888	1 482	14 199
Slovakia	11 037	6 642	7 919	7 876	13 843
Spain	44 570	37 141	33 930	27 389	27 743
Turkey	117 862	101 716	142 767	134 333	44 055
United Kingdom	37 778	69 094	12 873	16 334	4 250

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	2002	2003	2004	2005	2006
Austria	2 420	2 742	3 910	5 863	12 550
Belgium-Luxembourg	5 369	6 045	3 255	3 432	7 953
Croatia	1 803	1 053	1 878	715	893
Czech Republic	10 754	8 448	8 782	8 552	7 195
Denmark	53 153	39 341	36 133	28 788	58 303
Finland	3 070	3 119	3 559	3 931	4 498
France	20 442	23 009	28 748	31 965	24 471
Germany	221 000	218 811	226 706	231 471	272 526
Greece	839	791	858	996	1 065
Hungary	1 878	1 704	3 453	...	...
Irish Republic	318	332	411	894	293
Italy	79 605	87 501	86 874	84 178	84 398
Netherlands	103 133	136 981	155 325	116 512	88 489
Norway	110 755	115 402	129 547	109 802	125 134
Poland	6 571	8 318	6 593	7 744	9 138
Portugal	2 607	3 589	2 630	5 382	3 099

Imports continued

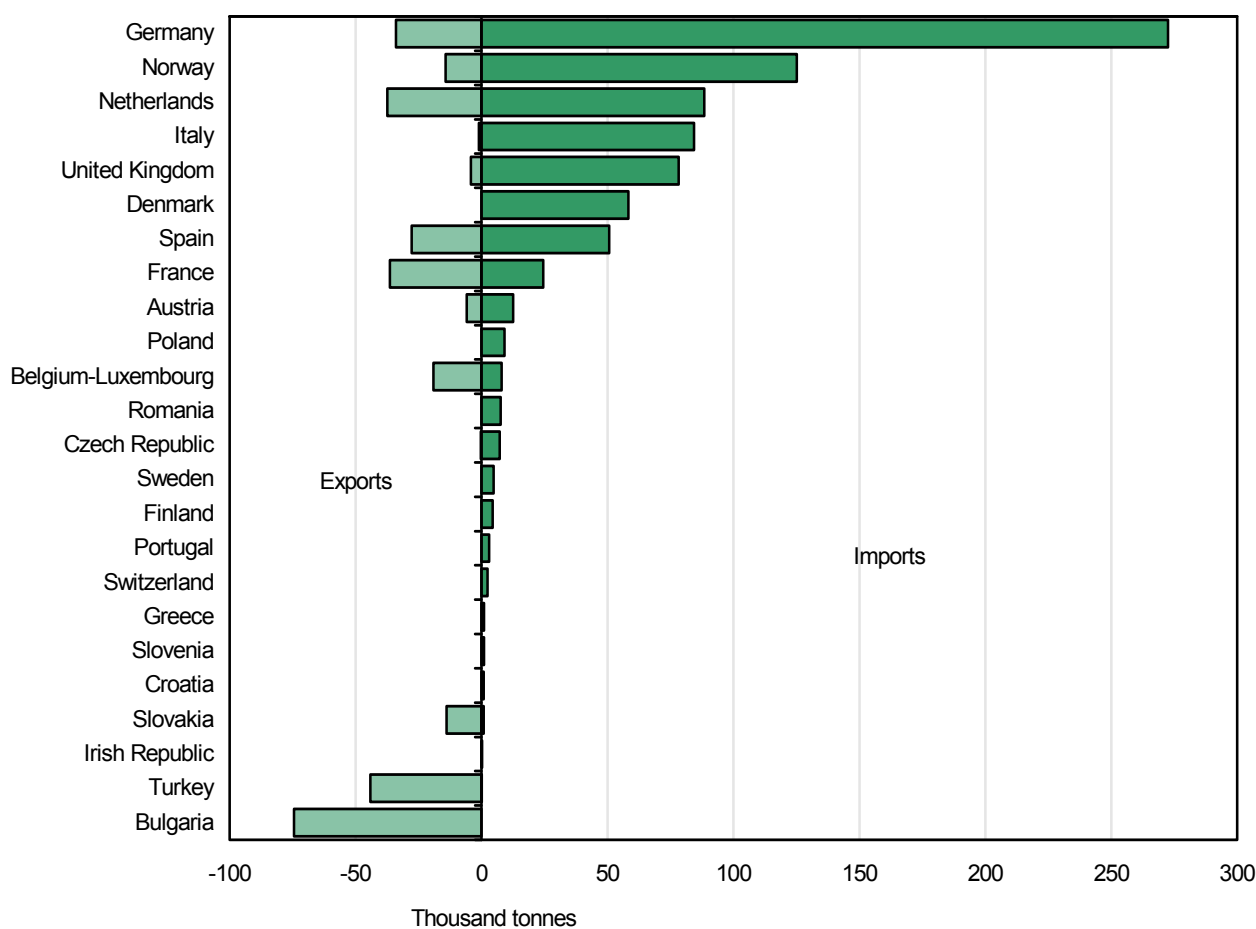
tonnes

Country	2002	2003	2004	2005	2006
Romania	16 869	2 943	9 943	5 747	7 604
Slovakia	1 312	956	927	814	872
Slovenia	1 075	931	896	845	1 044
Spain	51 952	50 596	59 378	47 923	50 743
Sweden	1 927	1 848	2 854	4 610	4 876
Switzerland	1 844	2 433	2 187	2 242	2 433
Turkey	202	121	258	1 983	137
United Kingdom	74 935	56 867	63 934	54 753	78 225

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

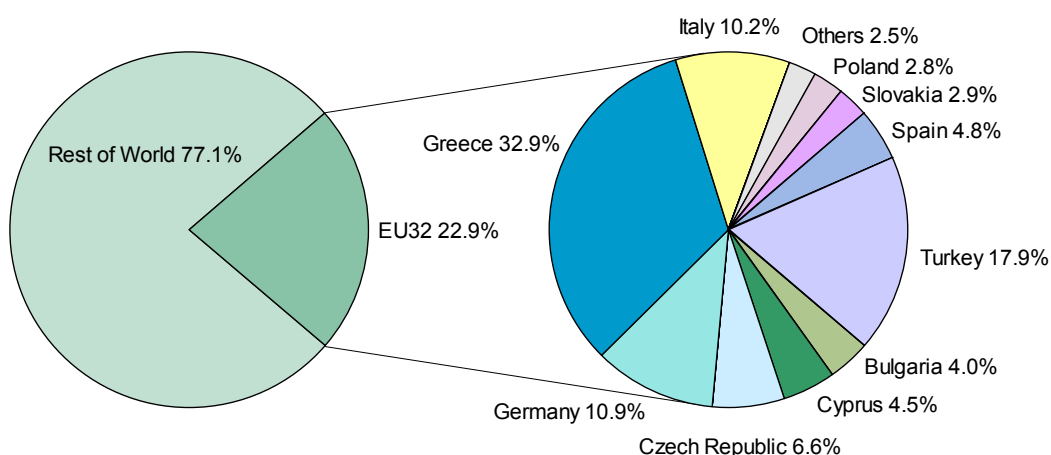
Barytes - EU32 trade in 2006



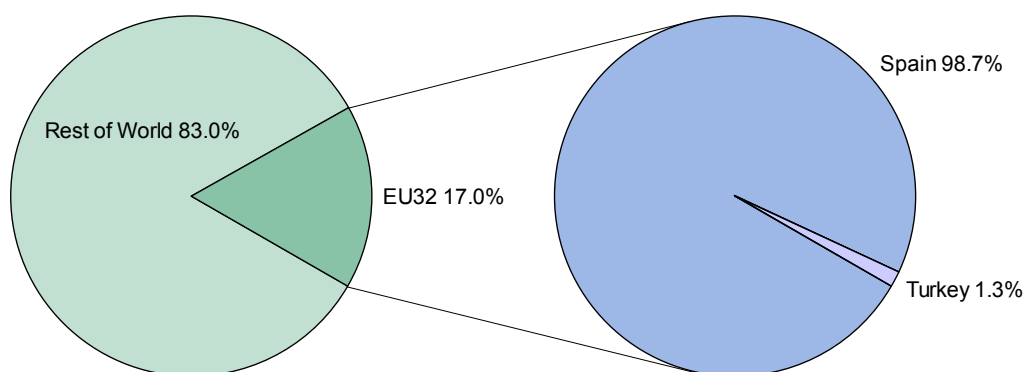
Bentonite and fullers earth

- Bentonites consist of montmorillonite (a clay mineral) and occur 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, 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 EU32 countries produced 23% of world bentonite and 17% of fuller's earth in 2006. Greece is the largest producer of bentonite in the EU32. UK production of fuller's earth ceased in 2005 and there is no longer any significant in the EU32. Most of Europe's sepiolite production in 2006 came from Spain, with a smaller (estimated) contribution from Turkey.
- Bentonite is traded in a variety of forms. For example, cat litter grade traded at between US\$32–US\$40/tonne during 2006.

EU32 Production of bentonite 2006



EU32 Production of fuller's earth, attapulgite and sepiolite 2006



Production of bentonite and fuller's earth

Country	2002	2003	2004	2005	2006
Bulgaria Bentonite	211 500	145 500	224 900	181 200	134 500
Croatia Bentonite	12 102	13 568	15 674	17 391	16 410
Cyprus Bentonite	128 400	144 859	155 717	172 366	150 620
Czech Republic Bentonite	174 000	199 000	201 000	186 000	220 000
Denmark Bentonite	14 539	16 303	18 352	18 515	19 211

Production continued

tonnes

Country	2002	2003	2004	2005	2006
Germany					
Bentonite	495 310	478 796	404 549	352 374	363 998
Greece					
Bentonite	1 056 598	1 156 642	1 030 556	1 124 795	*1 100 000
Hungary					
Bentonite	3 700	87 200	9 300	4 900	6 635
Italy					
Bentonite	463 231	474 475	371 255	341 049	...
Fuller's earth	24 595	250	300	...	...
Macedonia					
Bentonite	17 420	6 013	16 373	14 958	20 353
Poland					
Bentonite	—	—	—	—	93 880
Romania					
Bentonite	15 389	17 637	18 161	18 190	20 299
Slovakia					
Bentonite	65 500	74 700	73 280	77 055	95 700
Spain					
Bentonite	123 457	103 174	156 760	162 333	*160 000
Attapulgite	22 918	18 975	20 796	20 565	*20 000
Sepiolite	564 610	548 728	655 346	718 364	...
Turkey					
Bentonite	559 224	831 146	643 153	582 735	*600 000
Sepiolite	*10 000	*10 000	*10 000	*10 000	*10 000
United Kingdom					
Fuller's earth (a)	44 200	33 900	27 540	6 200	—
EU32 Total					
Bentonite	3 340 000	3 749 000	3 339 000	3 254 000	3 343 000
Fullers Earth (b)	666 000	612 000	714 000	755 000	748 000

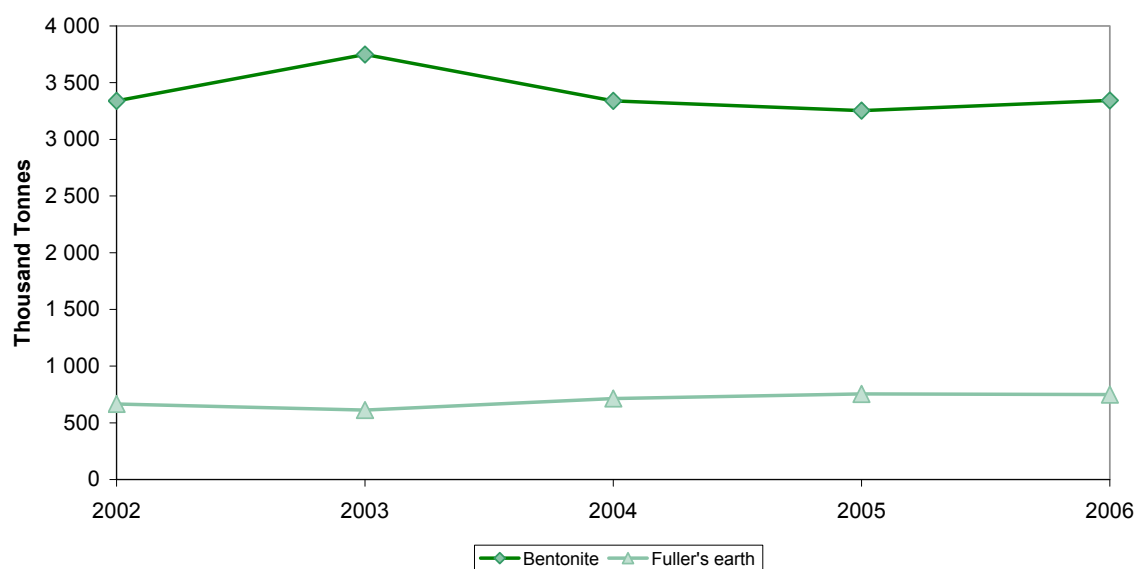
Note(s):-

- (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

EU32 Production of bentonite and fuller's earth 2002 - 06



Exports of bentonite and fuller's earth

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Bentonite	10 394	9 246	8 242	10 173	8 112
Belgium-Luxembourg					
Bentonite	14 819	28 403	22 700	26 049	32 407
Fuller's earth	89	57	501	501	303
Bulgaria					
Bentonite	121 868	102 263	95 435	76 614	89 531
Cyprus					
Bentonite	81 388	71 460	81 596	85 724	159 472
Czech Republic					
Bentonite	32 002	17 439	62 012	85 093	86 296
Denmark					
Bentonite	14 601	16 821	17 279	17 066	19 214
Finland					
Bentonite	10 286	1 132	188	155	232
France					
Bentonite	20 343	18 966	7 696	9 243	9 788
Fuller's earth	34	—	10	31	2
Germany					
Bentonite	43 329	57 237	50 477	71 977	77 368
Fuller's earth	197	299	860	1 540	1 378
Greece					
Bentonite	25 969	27 395	15 612	1 283	12 620
Fuller's earth	43	—	8	90	122
Hungary					
Bentonite	2 118	1 030	897	442	860
Italy					
Bentonite	215 834	221 353	257 596	245 515	272 438
Macedonia					
Bentonite	8 950	5 698	3 973	4 346	4 747
Netherlands					
Bentonite	178 006	180 736	203 897	186 286	132 076
Fuller's earth	4 019	3 752	9 085	2 931	2 141
Poland					
Bentonite	568	1 999	1 365	12 061	15 851
Fuller's earth	500	660	431	404	580
Romania					
Bentonite	4 430	4 056	8 810	7 154	521
Slovakia					
Bentonite	56 645	66 954	85 341	76 014	105 273
Fuller's earth	1 007	856	*1 000	1 757	...
Spain					
Bentonite	63 120	74 277	80 410	75 450	73 767
Sepiolite	581 737	507 584	501 988	506 019	464 939
Fuller's earth	14 721	12 417	11 362	9 828	7 896
Sweden					
Bentonite	9 401	10 082	9 486	7 419	9 539
Turkey					
Bentonite	106 712	153 691	210 328	211 926	84 595
Fuller's earth	220	253	179	342	251
United Kingdom					
Bentonite	81 707	75 099	71 153	49 514	42 548
Fuller's earth	74	254	124	778	1 102

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	2002	2003	2004	2005	2006
Austria					
Bentonite	54 441	47 358	53 871	58 344	60 667
Fuller's earth	129	560	615	374	427
Belgium-Luxembourg					
Bentonite	27 239	33 129	35 509	45 282	48 871
Fuller's earth	6 626	6 428	11 164	8 028	7 036
Bulgaria	653	511	1 089	1 600	1 992
Croatia					
Bentonite	14 571	1 238	2 181	1 897	2 053
Cyprus					
Bentonite	24 264	20 519	18 052	3 057	9 063
Czech Republic					
Bentonite	12 623	11 795	19 852	14 776	18 452
Fuller's earth	547	702	564	1 290	1 039
Denmark					
Bentonite	43 666	46 516	37 253	47 386	49 695
Fuller's earth	41	40	107	137	921
Estonia					
Bentonite	...	1 628	1 356	2 014	2 223
Fuller's earth	...	221	260	132	145
Finland					
Bentonite	27 758	26 569	27 321	26 395	32 520
Fuller's earth	207	212	322	201	109
France					
Bentonite	174 735	170 540	220 260	163 999	220 996
Fuller's earth	1 794	3 701	17 907	18 445	23 522
Germany					
Bentonite	227 785	253 998	218 349	253 226	323 999
Fuller's earth	7 315	8 483	11 202	9 571	9 371
Greece					
Bentonite	3 639	14 280	8 902	22 164	14 573
Fuller's earth	1 068	898	633	844	811
Hungary	4 440	5 914	5 214	2 369	4 796
Irish Republic					
Bentonite	966	869	2 042	2 658	953
Italy					
Bentonite	103 545	139 576	153 410	138 973	121 697
Fuller's earth	12 954	10 982	5 760	7 893	8 208
Latvia					
Bentonite	1 087	1 710	1 917	1 629	1 544
Lithuania					
Bentonite	1 679	2 607	2 472	2 675	2 838
Netherlands					
Bentonite	247 142	298 369	358 305	199 692	281 144
Fuller's earth	14 975	76 241	76 177	70 482	80 511
Norway					
Bentonite	11 618	13 963	13 667	10 000	15 246
Fuller's earth	142	111	170	260	209
Poland					
Bentonite	68 020	93 915	126 127	115 208	153 266
Fuller's earth	1 432	1 263	1 749	2 566	2 564
Portugal					
Bentonite	16 115	14 208	17 907	16 881	17 640
Fuller's earth	351	936	662	483	379
Romania	14 733	3 383	4 652	4 126	5 043
Slovakia					
Bentonite	4 008	3 912	6 040	6 863	6 916
Fuller's earth	204	1 014	866	1 082	886
Slovenia	4 122	4 322	3 591	3 639	4 870
Spain					
Bentonite	72 294	68 776	60 709	83 784	82 645
Fuller's earth	1 067	488	271	238	159

Bentonite and Fuller's Earth

Imports continued

tonnes

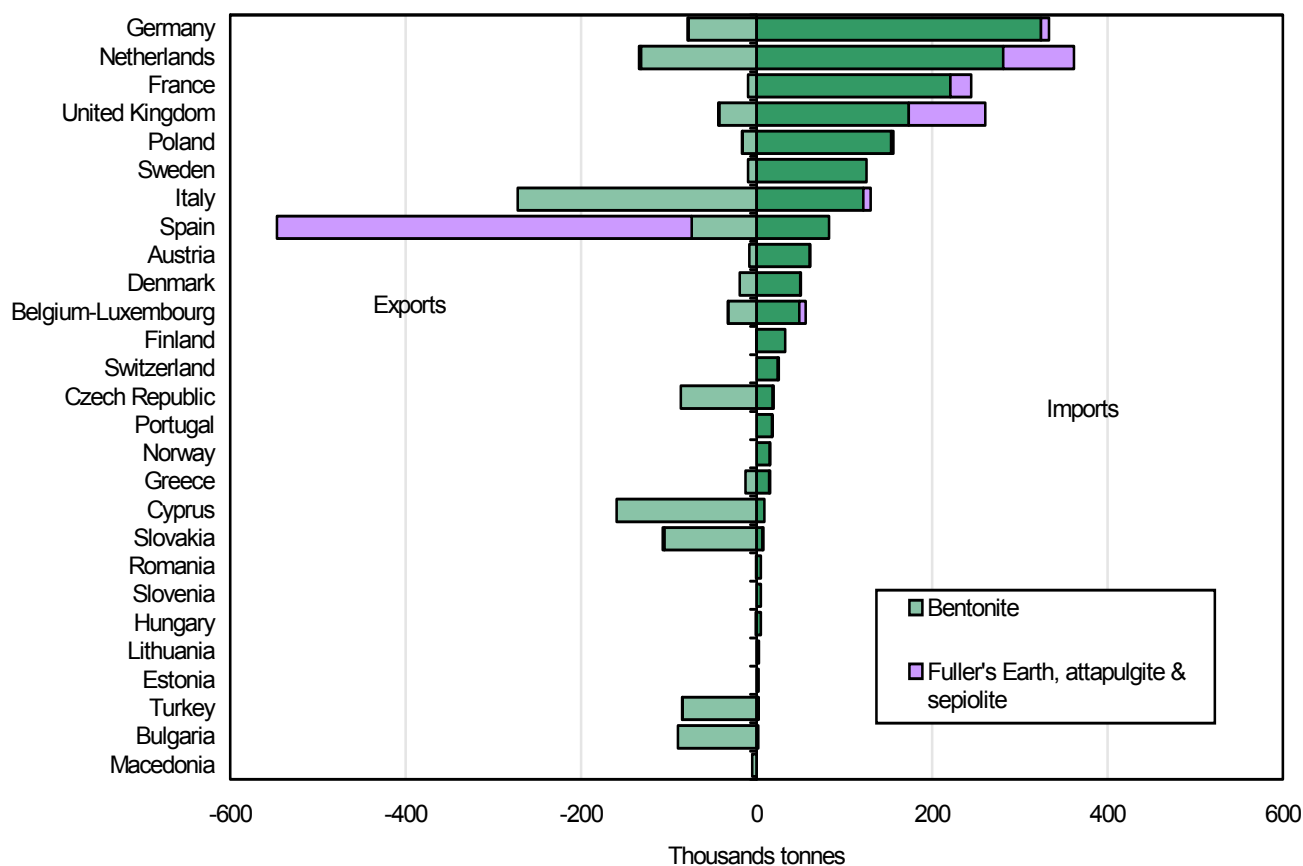
Country	2002	2003	2004	2005	2006
Sweden					
Bentonite	125 852	140 176	82 414	48 564	125 491
Switzerland					
Bentonite	21 128	20 540	20 027	20 861	24 407
Fuller's earth	1 544	1 541	1 641	1 844	916
Turkey					
Bentonite	1 715	1 702	832	4 127	2 127
Fuller's earth	201	104	157	159	93
United Kingdom					
Bentonite	216 022	198 434	187 750	151 179	173 483
Sepiolite	(a) 69 691	(a) 55 483	51 044	65 565	72 340
Fuller's earth	9 115	7 085	2 574	3 122	14 700

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

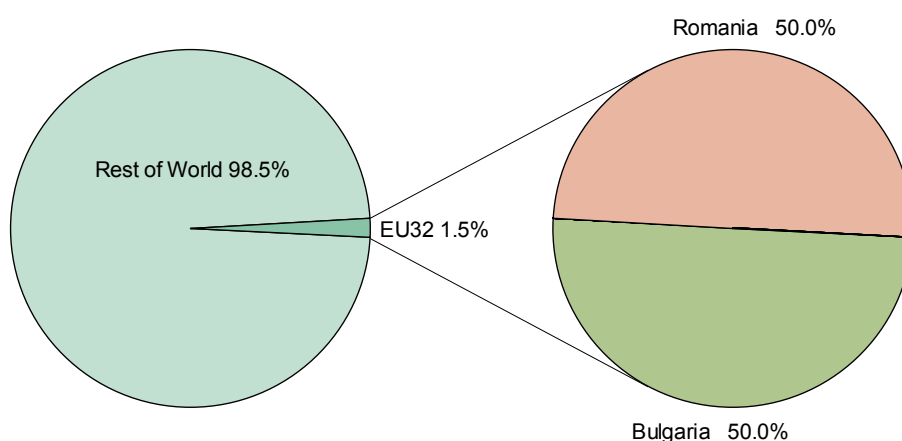
Bentonite and fuller's earth - EU32 trade in 2006



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, Mexico and Peru are the world's largest producers of bismuth with 80% of world production in 2006. There is very little mine production in the EU32; 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 2006 ranged from a low in January of US\$4.60/lb to a high in December of US\$7.30/lb.

EU32 Production of bismuth 2006



Mine production of bismuth

tonnes (metal content)

Country	2002	2003	2004	2005	2006
Bulgaria	*40	*40	*40	*40	*40
Romania	*40	*40	*40	*40	*40
EU32 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	2002	2003	2004	2005	2006
Austria					
Metal	0	8	8	8	...
France					
Metal	26	46	28	39	24
Germany					
Metal	228	152	275	371	534
Netherlands					
Metal	100	327	136	97	48
Spain					
Metal	13	10	2	9	118
United Kingdom					
Metal	1 793	2 239	2 633	2 426	2 703

Note(s):-

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

Imports of bismuth

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	105	128	114	62	114
Belgium-Luxembourg					
Metal	4	4	20	27	109
Czech Republic					
Metal	42	56	64	50	77
France					
Metal	728	629	830	1 029	547
Germany					
Metal	1 517	1 689	1 693	1 508	1 337
Greece					
Metal	3	17	23	6	6
Irish Republic					
Metal	33	54	2	6	8
Italy					
Metal	301	151	175	203	251
Netherlands					
Metal	108	274	166	85	168
Poland					
Metal	4	4	6	14	14
Slovenia					
Metal	54	42	43	69	66
Spain					
Metal	139	188	206	179	297
Sweden					
Metal	12	8	13	11	8
Switzerland					
Metal	15	15	6	15	6
Turkey					
Metal	4	4	6	7	8
United Kingdom					
Metal	1 513	2 237	2 205	2 858	2 347

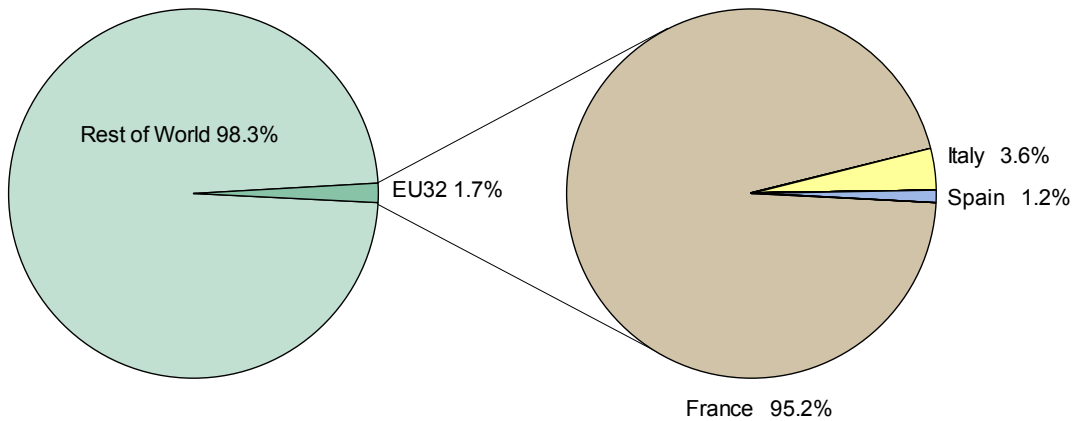
Note(s) :-

(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 (47%) and Israel (37%), the latter taking advantage of the relatively high bromine content of the Dead Sea.
- The price of purified bromine was US\$1.39/kg in 2006, and increase of 88% on 2005.

EU32 Production of bromine 2006



Production of bromine

kilograms

Country	2002	2003	2004	2005	2006
France	*8 000 000	*8 000 000	*8 000 000	*8 000 000	*8 000 000
Germany	*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	24 542 000	*25 000 000	—	—	—
EU32 Total	33 400 000	33 900 000	8 400 000	8 400 000	8 400 000

EU32 Production of bromine 2002 - 06



Bromine

Exports of bromine

kilograms

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg	21 462 800	17 930 400	21 275 800	19 124 000	20 738 100
Germany	13 700	16 700	5 600	3 000	4 600
Italy	2 259	1 296	505	1 000	...
Netherlands (a)	11 626 756	5 221 557	1 001 471	1 388 695	1 333 583
Poland	2 000	...	...	3 000	5 500
Spain	...	479	291	1 000	...
United Kingdom	8 671 909	5 307 678	1 126 043	234 977	1 137 544

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

Imports of bromine

kilograms

Country	2002	2003	2004	2005	2006
Austria	254 900	252 200	93 000	222 000	228 600
Belgium-Luxembourg	25 627 900	21 097 900	23 466 200	25 108 000	24 553 300
Czech Republic	47 836	26 817	8 121	1 174	5 066
Finland	57 054	56 506	71 251	71 000	36 158
France	12 437 700	13 225 500	12 595 900	13 989 000	13 971 600
Germany	1 775 500	1 835 400	1 626 600	1 304 000	801 100
Hungary	26 838	24 921	5 636	12 000	9 300
Irish Republic	5 739	33 238	602	...	886
Italy	104 414	139 908	355 734	281 000	522 069
Netherlands (a)	2 017 929	981 870	147 994	5 019 459	3 037
Poland	6 000	2 000	(a) 9 348	6 000	16 100
Slovakia	2 068	1 026	1 372	364	9 658
Spain	166 487	122 194	73 493	53 000	82 351
Sweden	...	0	5 000	13 000	9 000
Turkey	(a) 111 895	(a) 75 080	(a) 149 960	105 000	24 426
United Kingdom	2 879 558	1 899 231	7 145 977	7 994 939	7 592 352

Note(s) :-

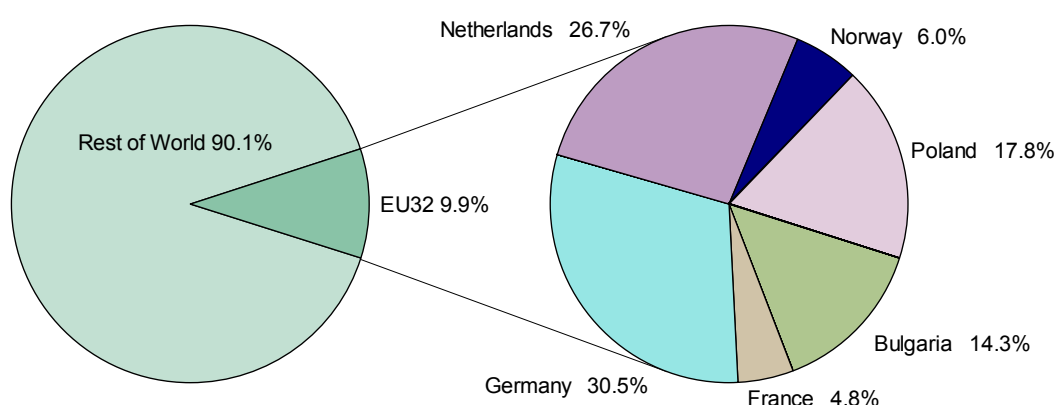
(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

(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 2006 were China (22%) and the Republic of Korea (16%). The EU32 contributed 10% of world cadmium production in 2006. Germany was the largest EU32 producer accounting for around 30% of EU32 production.
- Cadmium prices fluctuated greatly in 2006, mainly due to instability in the supply and demand situation. Cadmium metal (min. 99.95% Cd) traded between a low of US\$0.935/lb 9n February and a high of US\$1.83/lb in December of 2006.

EU32 Production of cadmium 2006



Production of cadmium

tonnes

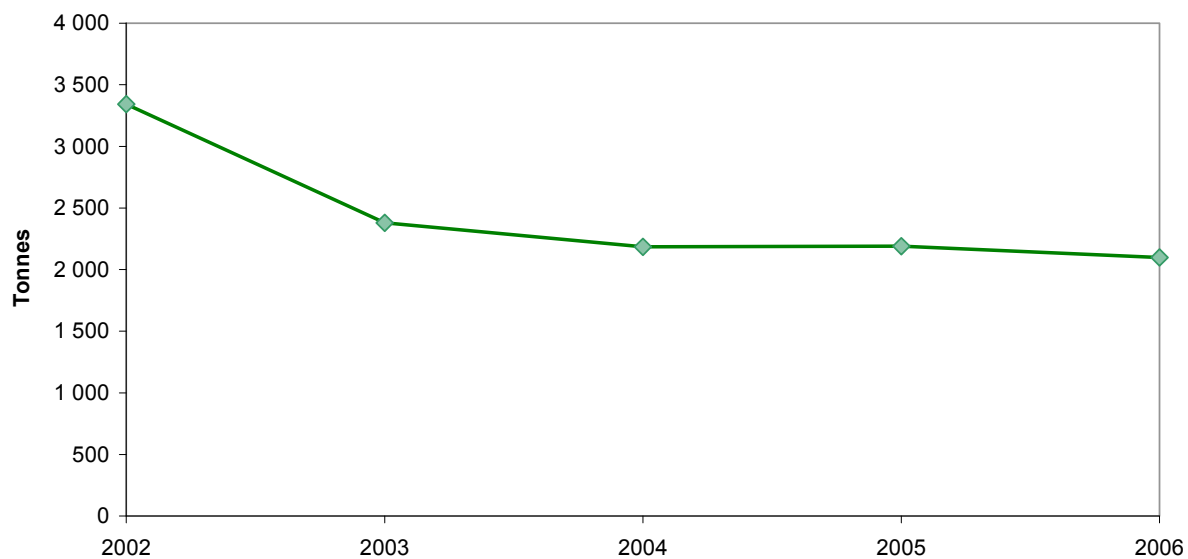
Country	2002	2003	2004	2005	2006
Belgium	117	—	—	—	—
Bulgaria	345	307	356	319	*300
Finland	400	—	—	—	—
France	154	*120	*120	*100	*100
Germany	422	640	*640	*640	*640
Italy	362	22	—	—	—
Macedonia	111	75	—	—	—
Netherlands	485	495	572	*570	*560
Norway	215	323	141	153	125
Poland	440	375	356	408	373
United Kingdom	292	22	—	—	—
EU32 Total	3 300	2 400	2 200	2 200	2 100

Note(s):-

(1) Data in this table excludes secondary metal unless otherwise stated

Cadmium

EU32 Production of cadmium 2002 - 06



Exports of cadmium

tonnes

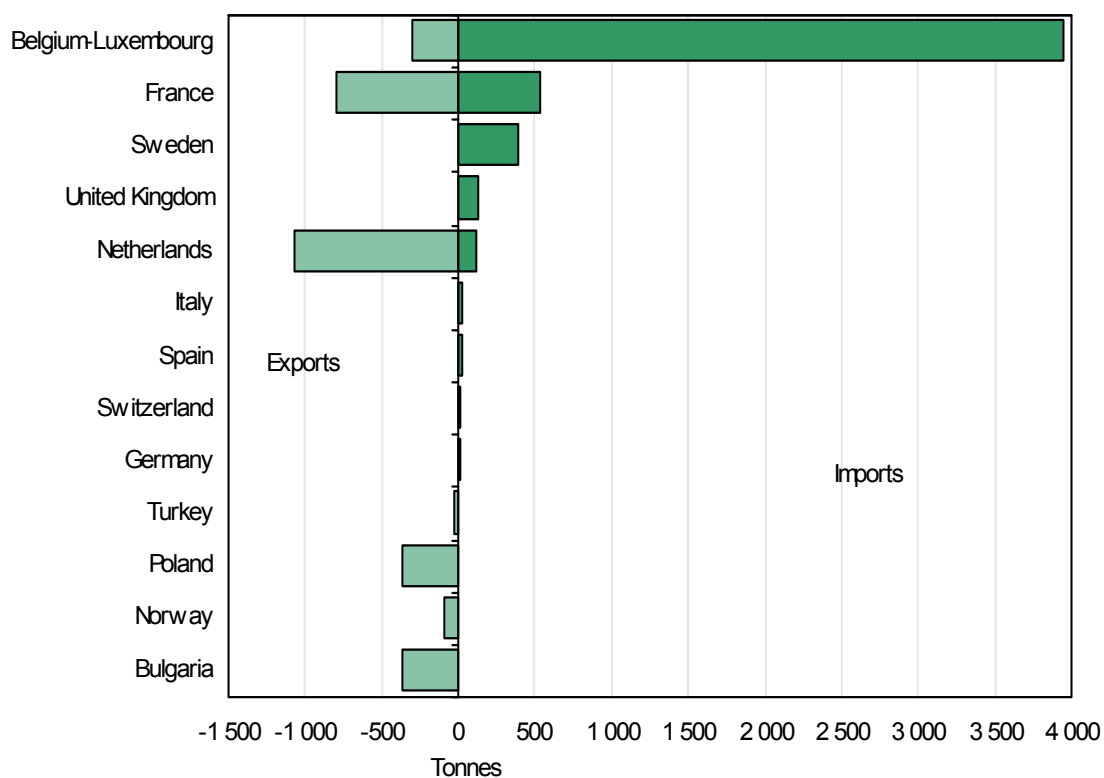
Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Metal	607	1 018	746	639	298
Sulphide	17	10	15	29	7
Bulgaria					
Metal	337	344	378	316	369
Finland					
Metal	34	0	...	—	1
France					
Metal	1 232	794	604	533	798
Germany					
Sulphide	2	5	6	14	4
Italy					
Metal	377	239	54	18	1
Macedonia					
Metal	223	818	500	...	...
Netherlands					
Metal	741	572	621	553	1 064
Norway					
Metal	117	237	304	132	90
Poland					
Metal	49	697	665	610	364
Sweden					
Oxide	78	120	139	140	...
Turkey					
Metal	...	...	95	25	27
United Kingdom					
Metal	114	187	27	79	7

Imports of cadmium

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Metal	5 121	4 914	4 064	4 779	3 948
Oxide	—	65	61	26	...
Sulphide	4	18	—	29	13
Czech Republic					
Sulphide	11	20	19	21	14
France					
Metal	1 682	1 248	1 465	2 114	527
Oxide	910	839	743	584	...
Sulphide	82	20	5 802	6	—
Germany					
Metal	8	11	39	16	7
Oxide	152	143	139	231	...
Sulphide	8	8	6	18	9
Italy					
Metal	46	48	87	72	30
Oxide	95	62	96	55	...
Netherlands					
Metal	...	357	284	233	113
Poland					
Oxide	38	...	...	...	...
Spain					
Metal	4	23	22	2	19
Oxide	70	29	28	53	17
Sweden					
Metal	150	402	330	282	388
Oxide	—	26	71	35	...
Switzerland					
Metal	6	4	30	5	7
Turkey					
Metal	14	12	6	2	3
United Kingdom					
Metal	225	416	479	206	129

Cadmium metal - EU32 trade in 2006



Cement

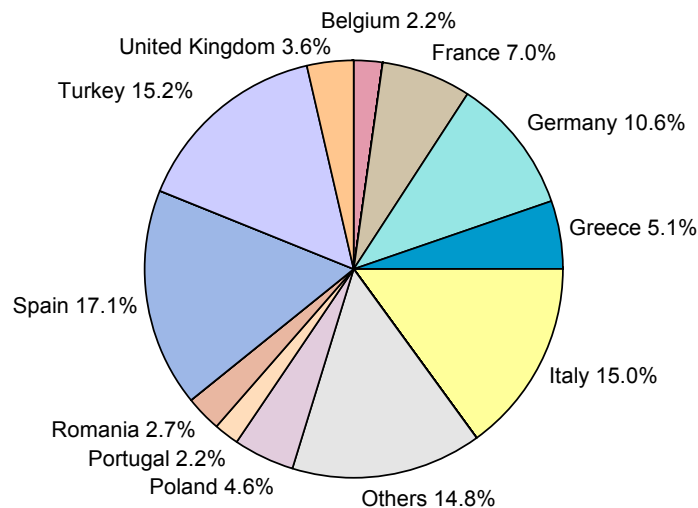
- Cement is a manufactured product and is the essential basis of concrete and mortar. Its chief raw materials are limestone or chalk and clay/mudstone. In Europe it is the largest use of limestone after crushed rock aggregate.
- Cement is made by firing a mixture of limestone and clay in a kiln to produce '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.
- Turkey and Italy are the largest producers of cement clinker, each with around 20 per cent of EU32 production. Spain (17%), Turkey (15%) and Italy (15%) are the largest producers of finished cement. There is significant international trade in both clinker and finished cement.

Production of cement clinker

Country	2002	2003	2004	2005	2006
Austria	...	...	...	90 053	188 588
Belgium	1 301 790	...	...	...	...
Bulgaria	...	...	...	402 684	400 315
Cyprus	212 459	56 034	68 865	37 891	97 846
Czech Republic	2 102 275	...	...	...	...
Denmark	152 636	61 909	52 758	42 691	5 499
Estonia	590 500	559 500	622 900	635 500	*700 000
France	16 479 000	16 313 000	17 157 000	17 332 000	17 731 000
Germany	20 120 000	21 513 000	26 281 000	24 315 000	...
Greece	8 947 394	15 016 562	12 185 001	12 442 361	...
Italy	30 770 167	32 077 055	33 048 546	...	...
Latvia	*200 000	*200 000	250 000	...	...
Luxembourg	895 000	770 000	847 000	834 000	816 000
Netherlands	900 000	800 000	825 000	...	...
Poland	8 811 639	8 647 397	9 620 601	9 468 410	11 219 940
Portugal (a)	114 524	845 594	1 082 678	1 450 646	1 412 869
Sweden	2 364 724	2 235 138	2 385 509	2 457 245	*2 500 000
Turkey	...	...	...	31 355 180	32 219 233
United Kingdom	10 327 000	10 146 000	10 402 000	10 074 000	10 069 000
EU32 Total	136 100 000	144 100 000	150 100 000	148 500 000	151 800 000

Note(s):-
(a) Sales

EU32 Production of finished cement 2006



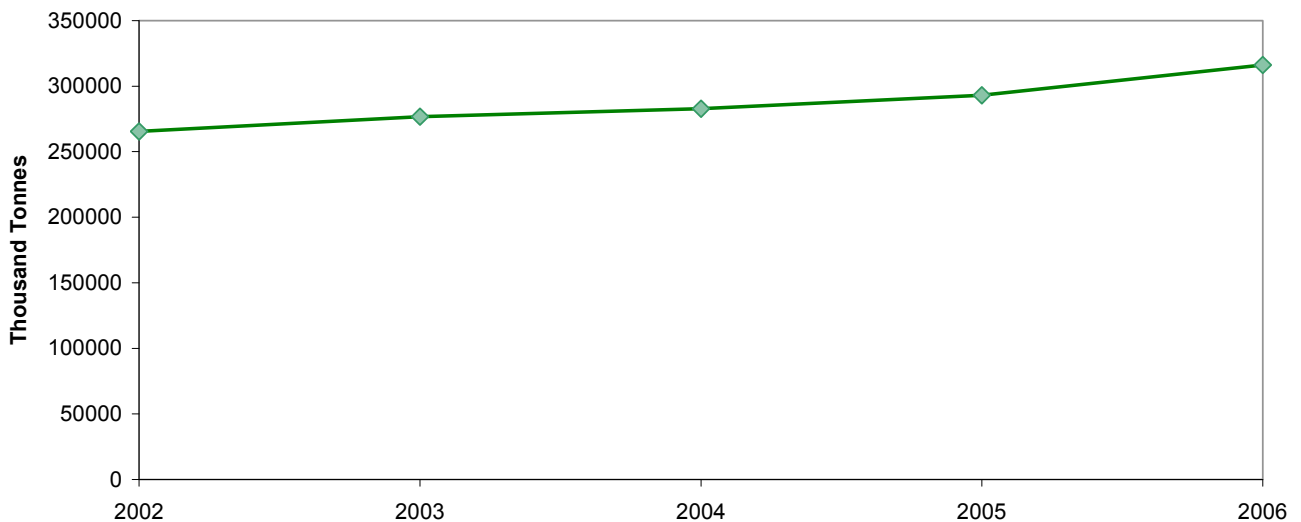
Production of finished cement

tonnes

Country	2002	2003	2004	2005	2006
Austria	3 967 000	*4 000 000	4 040 000	4 676 768	5 293 370
Belgium	7 103 000	6 553 000	6 216 000	6 587 000	6 965 000
Bulgaria	2 137 000	*2 400 000	*2 900 000	3 559 420	4 003 664
Cyprus	1 438 160	1 636 879	1 688 917	1 804 645	1 786 488
Czech Republic	3 249 155	3 502 103	3 828 677	3 978 056	4 238 818
Denmark	2 544 868	2 580 427	2 892 831	2 880 554	2 937 132
Estonia	465 900	506 200	614 600	726 000	848 900
Finland (a)	1 198 423	1 186 000	1 295 000	1 347 000	1 684 507
France	19 437 000	19 655 000	20 962 000	21 277 000	22 268 000
Germany	31 200 000	32 700 000	31 900 000	30 600 000	33 500 000
Greece	14 980 698	18 741 977	15 040 760	15 403 230	*16 000 000
Hungary	3 510 000	3 573 000	3 349 000	3 371 000	3 724 000
Irish Republic	2 500 000	2 500 000	*2 500 000	*2 500 000	*4 700 000
Italy	41 722 254	43 580 047	45 342 868	46 400 000	47 400 000
Latvia	260 397	295 205	283 645	280 000	*280 000
Lithuania	605 784	596 857	753 069	832 076	1 065 367
Luxembourg	729 000	709 000	797 000	767 000	796 000
Netherlands	3 080 000	2 450 000	2 380 000	*2 400 000	...
Norway	1 631 000	1 650 000	1 420 000	*1 500 000	...
Poland	11 206 439	11 653 448	12 566 000	12 646 223	14 688 353
Portugal	9 760 964	8 485 826	8 839 048	8 426 822	*6 800 000
Romania	5 679 776	5 991 962	6 238 584	7 032 100	8 391 000
Slovakia	3 140 581	3 147 478	3 158 308	3 498 685	3 592 509
Slovenia	1 178 000	1 370 000	1 186 000	1 200 000	*1 200 000
Spain	42 417 253	44 746 757	46 595 560	50 300 000	54 000 000
Sweden	2 764 954	2 544 647	2 712 810	2 731 000	...
Switzerland	3 771 000	3 613 000	3 851 000	4 022 000	*4 000 000
Turkey	32 576 701	35 076 902	38 019 112	41 100 274	47 977 425
United Kingdom	11 089 000	11 215 000	11 405 000	11 216 000	11 469 000
EU32 Total	265 300 000	276 700 000	282 800 000	293 100 000	316 200 000

Note(s):-
(a) Sales

EU32 Production of finished cement 2002 - 06



Cement

Exports of cement

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Cement clinkers	47 401	54 375	58 262	32 877	136 381
Portland cement	97 600	136 732	185 069	151 330	201 687
Other cement	27 365	42 712	40 830	53 951	38 926
Belgium-Luxembourg					
Cement clinkers	767 780	749 249	842 257	833 257	544 183
Portland cement	1 854 749	1 815 882	1 598 742	1 715 979	1 811 884
Other cement	687 836	592 657	616 066	612 642	609 236
Bulgaria					
Cement clinkers	435 202	602 632	392 414	338 505	293 031
Portland cement	485 972	568 083	460 281	455 824	334 013
Other cement	2 729	22 625	50	27	40
Croatia					
Cement clinkers	39 981	...	44 297	196 594	244 043
Portland cement	1 153 639	1 104 731	1 039 442	1 254 309	1 282 560
Other cement	80 227	76 973	95 310	92 074	89 957
Cyprus					
Cement clinkers	245 656	200 461	31 215	37 891	91 635
Portland cement	201 542	196 173	146 669	219 460	155 271
Czech Republic					
Cement clinkers	77 171	44 410	91 626	29 169	32 521
Portland cement	350 341	506 588	576 531	526 784	394 105
Other cement	38 341	11 476	3 216	34 046	67 930
Denmark					
Cement clinkers	97 886	65 962	85 967	54 542	11 981
Portland cement	1 259 988	1 164 923	1 127 638	1 235 477	1 290 816
Other cement	12 697	11 947	13 535	13 118	14 153
Estonia					
Cement clinkers	163 887	157 353	113 105	97 442	87 638
Portland cement	176 923	172 223	209 168	225 729	228 971
Finland					
Portland cement	633	837	11 449	3 367	647
France					
Cement clinkers	555 646	479 952	460 364	310 228	325 352
Portland cement	549 756	604 494	785 100	792 192	683 110
Other cement	157 945	144 523	112 828	102 222	113 145
Germany					
Cement clinkers	411 711	1 001 024	868 384	773 394	687 056
Portland cement	2 083 433	2 472 418	3 496 157	3 587 966	4 251 126
Other cement	1 226 979	1 196 558	1 580 315	1 876 289	1 852 990
Greece					
Cement clinkers	400 700	742 540	257 136	304 750	356 077
Portland cement	2 312 090	2 507 359	2 679 607	3 502 085	2 816 832
Other cement	142 068	110 674	170 640	242 957	181 529
Hungary					
Cement clinkers	125 482	41 006	78 590	27 328	—
Portland cement	433 217	440 285	244 276	274 262	257 050
Irish Republic					
Portland cement	263 254	439 876	1 133 469	942 655	972 585
Italy					
Cement clinkers	82 835	55 289	8 965	19 427	61 437
Portland cement	1 940 114	1 816 975	1 903 368	2 379 941	2 091 427
Other cement	174 484	181 086	130 920	130 120	660 595
Latvia					
Portland cement	42 492	42 644	26 144	10 762	5 528
Lithuania					
Portland cement	224 544	212 730	247 918	299 782	246 350
Macedonia					
Cement clinkers	179 321	16 356	16 762	129 570	151 663
Portland cement	115 937	177 801	189 166	207 457	220 588
Netherlands					
Cement clinkers	1 325	2 326	1 585	4 610	3 119
Portland cement	108 209	209 122	326 234	295 457	410 232
Other cement	86 102	53 743	30 013	18 513	134 225

Cement

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Norway					
Cement clinkers	98 557	(a) *109 000	(a) *108 000	(a) *179 000	(a) *66 000
Portland cement	558 861	(a) *724 000	(a) *413 000	(a) *569 000	(a) *313 000
Poland					
Cement clinkers	6 461	87 470	226 981	256 621	856 035
Portland cement	370 832	262 290	341 112	460 479	402 741
Other cement	98 766	7 406	7 059	49 970	67 457
Portugal					
Cement clinkers	41 626	117 332	148 984	1 271 578	1 138 307
Portland cement	59 628	114 182	286 819	1 110 739	1 204 981
Other cement	5 815	6 081	13 267	17 301	11 364
Romania					
Cement clinkers	572 684	360 639	669 204	465 660	608 616
Portland cement	1 020 819	963 978	701 686	739 215	447 713
Slovakia					
Cement clinkers	9 501	27 695	4 768	26 549	27 092
Portland cement	1 584 379	1 476 998	1 470 728	1 433 926	1 372 554
Other cement	18 992	15 958	24 408	44 670	35 596
Slovenia					
Cement clinkers	2 163	7 589	18 577	58 765	21 440
Portland cement	171 993	166 323	101 842	56 776	73 187
Other cement	...	...	16 154	63 732	115 104
Spain					
Cement clinkers	45 657	18 350	9 491	13 259	28 809
Portland cement	1 700 683	1 585 078	1 681 953	1 713 572	1 386 652
Other cement	92 852	100 272	59 696	51 340	43 262
Sweden					
Portland cement	1 285 376	1 064 305	867 450	1 295 834	1 208 231
Other cement	1 469	2 818	2 492	2 555	12 144
Switzerland					
Cement clinkers	130 261	106 617	106 263	121 014	103 367
Portland cement	12 942	14 396	33 524	46 939	23 437
Turkey					
Cement clinkers	4 546 480	2 898 730	2 359 071	2 893 665	836 602
Portland cement	5 803 964	6 749 791	7 907 130	6 713 088	3 277 480
Other cement	25 296	96 793	147 792	261 816	112 683
United Kingdom					
Cement clinkers	160 704	60 920	82 936	134 992	91 357
Portland cement	305 801	216 480	214 420	320 680	521 784
Other cement	66 163	61 193	76 517	68 554	69 692

Note(s):-

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

Imports of cement

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Cement clinkers	314 864	444 535	443 956	532 745	487 406
Portland cement	804 924	763 455	773 897	860 087	686 652
Other cement	18 597	17 434	51 811	43 083	31 100
Belgium-Luxembourg					
Cement clinkers	64 453	256 355	553 911	442 986	545 575
Portland cement	795 844	846 044	956 062	898 871	897 315
Other cement	187 371	292 756	314 515	275 177	277 825
Bulgaria					
Cement clinkers	3 088	3 815	23 048	180 254	586 194
Portland cement	7 491	33 810	51 493	23 787	9 127
Other cement	420	1 027	920	1 128	1 665

Cement

Imports continued

tonnes

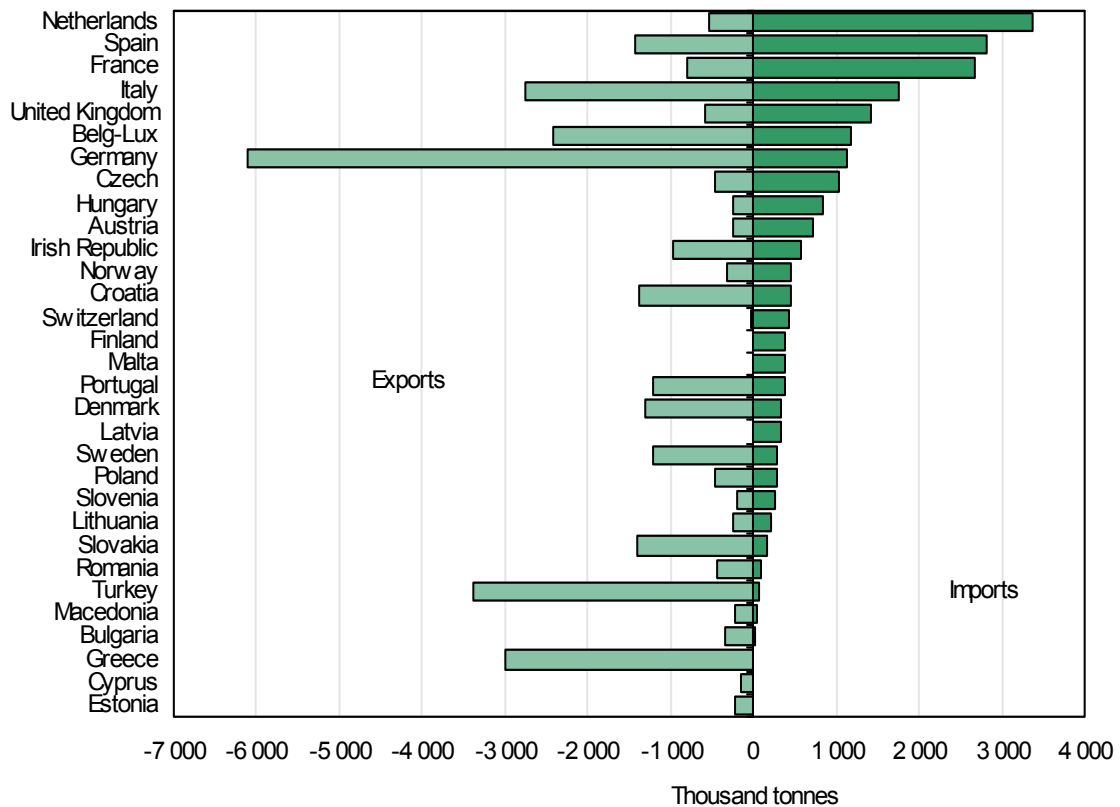
Country	2002	2003	2004	2005	2006
Croatia					
Cement clinkers	7 330	144 509	61 672	...	...
Portland cement	85 593	176 027	214 400	379 711	447 202
Other cement	1 841	1 782	...	1 569	5 547
Cyprus					
Cement clinkers	17 144	74 627	28 622	43 375	17 819
Portland cement	2 926	2 496	2 092	2 339	1 241
Czech Republic					
Cement clinkers	6 792	76 152	167 711	95 108	117 477
Portland cement	748 672	1 044 234	1 105 823	1 027 011	1 001 321
Other cement	83 286	28 197	24 799	38 434	38 439
Denmark					
Cement clinkers	4 033	23 222	22 506	31 634	46 600
Portland cement	274 440	185 757	187 982	230 842	274 151
Other cement	29 067	30 501	33 913	36 753	54 194
Estonia					
Cement clinkers	...	...	...	21 219	75 683
Portland cement	31 847	36 438	16 827	3 311	1 102
Finland					
Cement clinkers	7 265	67 297	28 129	17 594	95 730
Portland cement	382 160	438 363	423 958	383 260	380 296
Other cement	8 669	9 654	9 344	13 211	12 176
France					
Cement clinkers	852 287	793 933	865 213	946 642	1 010 056
Portland cement	1 114 553	1 090 120	1 114 684	1 271 478	1 556 864
Other cement	1 190 848	1 123 098	927 157	984 597	1 120 524
Germany					
Cement clinkers	523 967	325 302	370 454	289 600	235 023
Portland cement	1 197 165	906 718	1 002 404	934 865	794 716
Other cement	321 014	277 349	343 597	380 858	345 286
Greece					
Portland cement	56 424	302	1 754	425	3 237
Other cement	2 628	3 322	3 497	4 548	3 228
Hungary					
Cement clinkers	...	1 924	583	9 051	65 437
Portland cement	303 249	342 107	451 613	565 366	455 108
Other cement	466 700	536 445	579 735	508 067	375 337
Irish Republic					
Cement clinkers	56 199	88 669	226 116	245 955	395 053
Portland cement	373 759	259 703	281 044	335 055	559 645
Other cement	2 968	4 105	9 132	8 958	9 079
Italy					
Cement clinkers	1 777 159	2 322 710	2 720 499	2 828 906	2 872 114
Portland cement	1 796 508	2 033 657	2 130 079	2 014 905	1 564 049
Other cement	304 329	168 008	146 033	152 325	184 862
Latvia					
Cement clinkers	...	...	...	38 589	43 774
Portland cement	112 025	138 488	204 353	234 862	322 187
Lithuania					
Cement clinkers	14 459	...	22 496	766	416
Portland cement	128 201	206 317	183 712	265 103	209 400
Macedonia					
Portland cement	41 859	60 849	81 250	59 679	44 542
Malta					
Portland cement	275 627	275 736	179 533	334 107	389 690
Netherlands					
Cement clinkers	52 231	679 330	581 267	388 146	494 944
Portland cement	370 170	1 614 917	1 812 884	1 632 872	1 925 756
Other cement	229 933	826 513	774 050	846 622	1 452 353
Norway					
Portland cement	186 529	188 442	236 622	373 788	443 104
Other cement	5 549	5 026	10 738	12 319	14 147
Poland					
Cement clinkers	66 800	70 207	13 746	33 673	45 560
Portland cement	630 256	699 379	540 342	444 855	285 135
Other cement	23 531	16 352	2 323	5 537	5 700

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Portugal					
Cement clinkers	5 421	7 715	8 775	17 084	140 673
Portland cement	1 485 581	1 225 167	1 066 969	669 272	356 040
Other cement	11 842	50 576	65 793	10 479	14 286
Romania					
Portland cement	20 478	123 332	228 506	167 686	102 759
Slovakia					
Cement clinkers	—	34 550	33 021	68 894	42 666
Portland cement	82 114	113 926	85 834	88 403	98 625
Other cement	2 320	3 379	19 636	49 619	56 418
Slovenia					
Cement clinkers	16 279	95 002	61 151	1 343	11 970
Portland cement	150 749	205 345	219 779	215 513	249 749
Other cement	1 272	1 440	112	2 861	6 917
Spain					
Cement clinkers	4 646 090	5 897 219	6 266 470	7 852 531	9 108 499
Portland cement	3 155 122	2 606 300	2 549 086	2 845 856	2 771 668
Other cement	36 947	54 726	21 527	20 031	40 164
Sweden					
Portland cement	208 113	209 882	218 928	242 326	249 670
Other cement	25 151	27 286	27 286	34 597	41 176
Switzerland					
Cement clinkers	146 388	47 050	64 882	71 542	115 001
Portland cement	198 607	319 539	313 292	352 409	380 862
Other cement	56 272	41 949	58 671	48 309	49 317
Turkey					
Cement clinkers	7 117	170 275	375 619	567 256	1 209 618
Portland cement	19 014	9 922	9 096	66 260	71 237
Other cement	5 800	3 675	105	4 693	3 979
United Kingdom					
Cement clinkers	289 685	506 128	377 341	406 044	516 583
Portland cement	2 142 589	1 714 946	2 033 772	1 645 088	1 397 025
Other cement	61 327	61 131	64 289	37 705	26 790

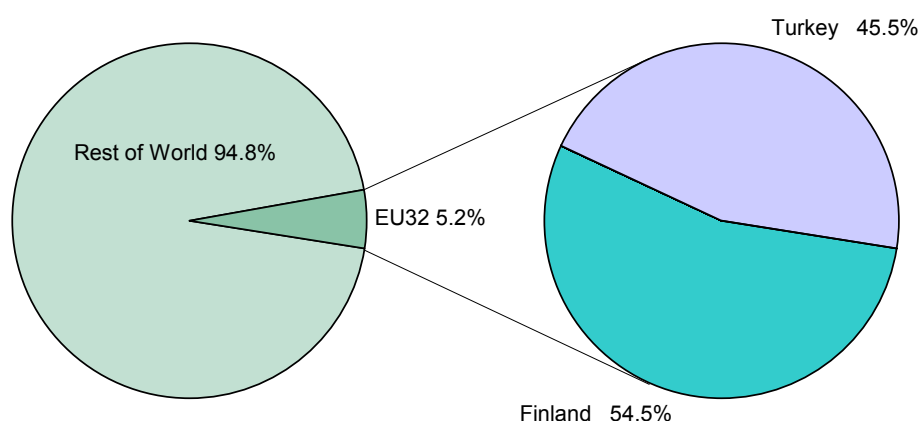
Cement - EU32 trade in 2006



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 2006. Finland and Turkey are the only countries in Europe with significant chromium production.
- The price of chromite in 2006 ranged from US\$1100–US\$235/tonne, depending on grade. The price of ferro-chrome rose sharply in 2006 due to high demand from the stainless steel industry and supply cutbacks from South African producers during 2005. Ferro-chrome traded at around US\$0.67–US\$1.18/lb, depending on type. The price of chromium metal remained similar to 2005, trading in the range of US\$5500/tonne–US\$7000/tonne (alumino-thermic, min. 99% in warehouse) during 2006.

EU32 Production of chromium ores and concentrates 2006



Production of chromium ores and concentrates

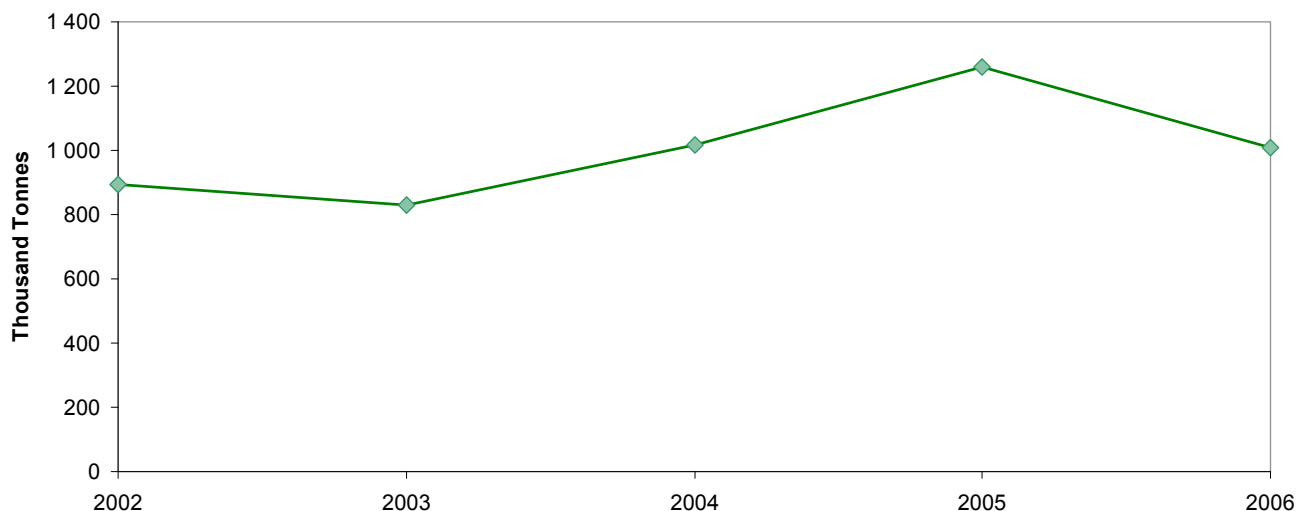
tonnes

Country	2002	2003	2004	2005	2006
Finland	566 090	549 000	580 000	572 000	549 000
Turkey	326 390	281 783	436 639	688 377	457 893
EU32 Total	892 000	831 000	1 017 000	1 260 000	1 007 000

Note(s):-

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

EU32 Production of chromium ores and concentrates 2002 - 06



Exports of chromium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Ores & concentrates	896	1 155	392	276	136
Metal	4 506	5 485	7 194	8 893	11 770
Belgium-Luxembourg					
Ores & concentrates	9 510	5 491	2 433	10 777	14 485
Metal	262	660	852	782	520
Czech Republic					
Metal	88	338	364	109	2 104
Denmark					
Metal	496	521	661	703	855
Finland					
Ores & concentrates	281	612	708	841	1 570
France					
Ores & concentrates	2 835	2 879	2 928	2 340	2 013
Metal	5 056	4 498	7 182	8 074	6 457
Germany					
Ores & concentrates	11 760	3 666	12 691	14 188	24 185
Metal	762	2 096	1 256	1 478	2 877
Greece					
Ores & concentrates	...	...	21	249	726
Italy					
Ores & concentrates	3 014	2 638	3 803	4 673	5 446
Metal	407	1 993	4 184	1 070	111
Lithuania					
Ores & concentrates	...	...	...	948	2 213
Netherlands					
Ores & concentrates	46 386	52 636	58 623	72 062	74 909
Metal	1 282	1 817	2 655	3 543	4 430
Norway					
Metal	13	141	413	116	203
Poland					
Ores & concentrates	1 533	...	117	25	7
Metal	73	181	0	1	13
Slovakia					
Metal	2 511	2 289	2 362	1 876	1 735
Spain					
Ores & concentrates	1 040	947	2 113	1 314	1 908
Metal	2 679	1 126	905	709	990
Sweden					
Metal	...	...	75	55	105
Switzerland					
Metal	31	66	319	249	530
Turkey					
Ores & concentrates	265 296	363 699	575 030	834 034	887 689
Metal	249	20	33	238	6
United Kingdom					
Ores & concentrates	26	212	622	228	47
Metal	3 837	4 173	4 776	4 547	5 123

Note(s):-

(1) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

Imports of chromium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Ores & concentrates	28 384	36 348	26 761	21 398	37 326
Metal	1 808	2 337	3 731	4 440	8 879
Belgium-Luxembourg					
Ores & concentrates	4 179	4 644	6 094	18 464	22 053
Metal	664	765	821	1 245	1 264
Bulgaria					
Ores & concentrates	710	480	812	997	1 440
Croatia					
Ores & concentrates	287	341	459	537	615
Metal	160	200	279	54	51
Czech Republic					
Ores & concentrates	11 655	10 674	11 365	12 440	11 380
Metal	14	66	60	149	123
Denmark					
Ores & concentrates	1 496	920	614	53	775
Metal	63	106	90	53	27
Finland					
Ores & concentrates	4 294	6 050	6 092	6 962	8 388
Metal	87	190	164	258	575
France					
Ores & concentrates	22 534	22 917	19 770	18 980	23 031
Metal	782	677	1 323	669	1 040
Germany					
Ores & concentrates	114 806	126 278	128 886	141 483	126 874
Metal	3 291	4 063	5 599	5 428	7 552
Greece					
Ores & concentrates	360	218	122	477	732
Hungary					
Ores & concentrates	651	593	367	388	306
Metal	65	82	68	0	289
Irish Republic					
Metal	19	27	25	40	44
Italy					
Ores & concentrates	56 835	26 802	30 872	39 999	41 992
Metal	544	520	677	958	830
Netherlands					
Ores & concentrates	62 992	52 353	88 660	80 622	99 305
Metal	562	310	612	1 838	3 632
Norway					
Ores & concentrates (a)	*51 000	*600	*400	*500	*500
Metal	53	47	88	92	73
Poland					
Ores & concentrates	8 461	10 977	13 053	9 391	16 161
Metal	18	29	242	54	45
Portugal					
Ores & concentrates	2 334	2 062	1 547	2 599	2 845
Metal	16	14	18	18	336
Romania					
Ores & concentrates	3 869	2 701	2 562	2 828	1 675
Metal	60	70	58	245	958
Slovakia					
Ores & concentrates	16 766	12 624	24 479	12 475	11 252
Metal	103	179	2	55	11
Slovenia					
Ores & concentrates	451	340	406	446	1 414
Metal	10	26	31	122	97
Spain					
Ores & concentrates	2 585	5 799	3 947	10 262	5 906
Metal	666	921	1 519	1 308	1 830
Sweden					
Ores & concentrates	280 000	215 000	457 000	240 000	315 000
Metal	1 265	823	1 903	1 150	1 639
Switzerland					
Ores & concentrates	525	716	671	624	1 080
Metal	116	110	141	127	162

Imports continued

tonnes

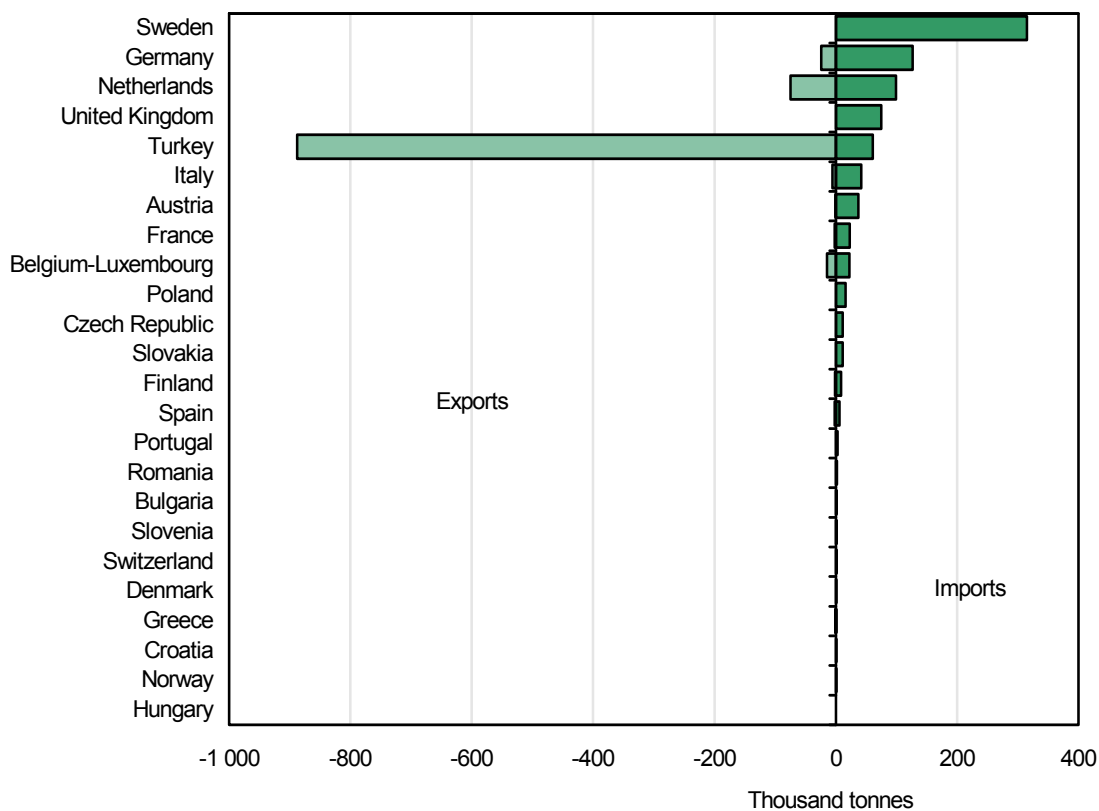
Country	2002	2003	2004	2005	2006
Turkey					
Ores & concentrates	68 832	82 452	56 836	89 844	60 906
Metal	19	19	85	26	14
United Kingdom					
Ores & concentrates	139 748	107 161	130 841	122 042	74 907
Metal	1 171	1 612	2 321	1 723	4 022

Note(s) :-

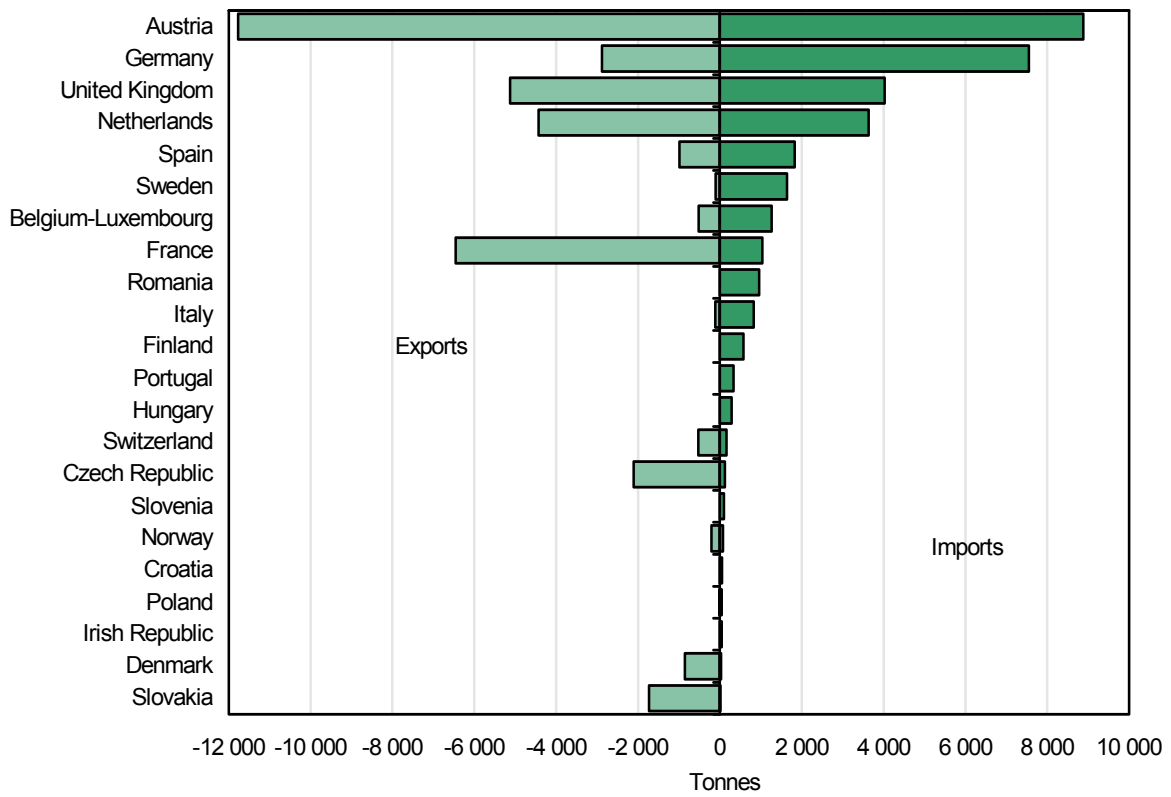
(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

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

Chromium ores and concentrates - EU32 trade in 2006



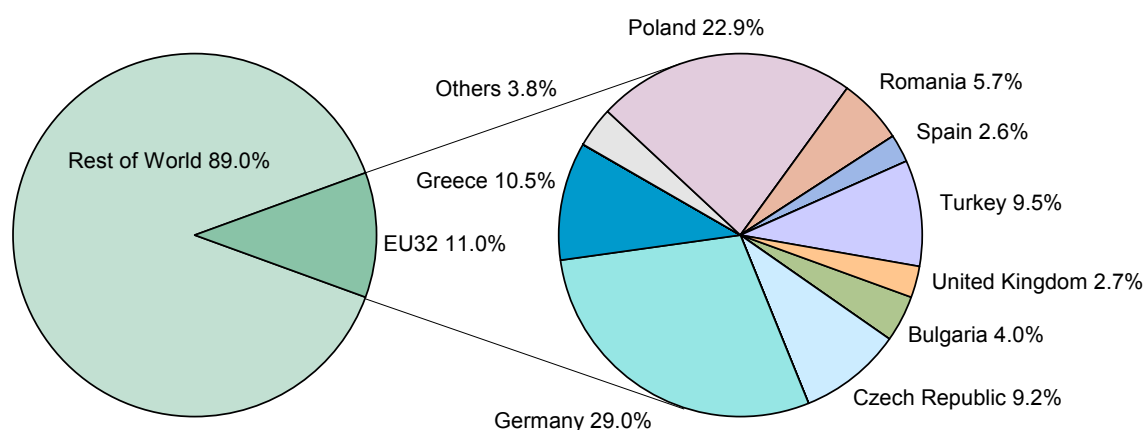
Chromium metal - EU32 trade in 2006



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 and bituminous) and brown coal (lignite) are used as steam coal; only bituminous coal is used as coking coal.
- In 2006 the EU32 countries produced 11% of the world's coal (all types) of which more than half was contributed by Germany and Poland. EU32 production fell by 21.4 million tonnes (3%) between 2002 and 2006, with the UK recording a decline in production of 38%.
- Following strong price rises in recent years for internationally traded steam coal imported into Europe, prices rose slightly in 2006 to around £33/tonne. European producers are generally able to charge above the import prices due to their proximity to power stations.

EU32 Production of coal 2006



Production of coal

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Brown coal & lignite (a)	1 411 824	1 152 389	235 397	13 931	7 854
Bulgaria					
Anthracite & bituminous	122 000	53 000	170 000	...	...
Brown coal & lignite	26 433 500	27 641 000	26 455 000	(a) 26 400 000	(a) 27 500 000
Czech Republic					
Bituminous	14 097 000	13 382 000	14 648 000	12 778 000	13 017 000
Lignite	501 000	470 000	450 000	467 000	459 000
Brown coal	48 834 000	49 920 000	47 840 000	48 658 000	48 915 000
France					
Anthracite & bituminous	1 483 000	1 728 000	200 000	—	—
Lignite	147 000	9 000	—	—	—
Germany					
Anthracite & bituminous	26 363 084	25 873 043	25 871 882	24 909 867	20 882 119
Brown coal	181 778 432	179 086 923	181 926 060	177 907 945	176 324 117
Greece					
Lignite	71 087 609	69 410 756	71 237 228	71 700 000	71 500 000
Hungary					
Bituminous	660 000	667 126	280 000	—	—
Lignite	7 573 971	8 564 000	8 470 258	8 153 968	8 467 000
Brown coal	4 530 000	4 128 000	2 500 000	1 426 000	1 431 700
Italy					
Lignite	100 000	...	...	...	...
Macedonia					
Lignite	7 443 360	7 200 793	7 129 535	6 879 726	6 650 182
Norway					
Bituminous (b)	2 131 691	2 944 000	3 018 500	1 667 000	2 400 000

Coal

Production continued

tonnes

Country	2002	2003	2004	2005	2006
Poland					
Bituminous	103 546 000	103 016 400	100 087 100	97 903 730	95 222 512
Lignite	58 209 600	60 919 100	61 197 500	61 636 445	60 844 278
Romania					
Anthracite & bituminous	3 976 000	3 309 000	3 016 000	*3 000 000	*3 000 000
Brown coal & lignite	28 015 000	31 121 000	29 947 000	28 554 000	36 069 000
Slovakia					
Brown coal	3 406 400	3 076 100	2 578 273	2 513 030	2 208 590
Slovenia					
Brown coal & lignite	4 684 710	4 828 786	4 807 302	4 539 556	4 520 754
Spain					
Anthracite	4 399 365	3 857 364	3 692 220	3 888 838	3 700 815
Bituminous	5 349 027	5 547 150	5 220 407	4 664 589	4 536 884
Sub-bituminous	3 537 710	3 182 572	3 426 001	3 354 014	3 101 930
Lignite	8 726 121	7 977 546	8 146 908	7 587 113	6 108 481
Turkey					
Anthracite	3 312 690	3 090 458	2 842 952	2 785 505	3 070 793
Bituminous	118 235	336 714	738 915	737 701	*740 000
Lignite	49 626 612	43 749 420	43 754 159	60 867 574	61 005 688
United Kingdom					
Bituminous (c)	29 989 000	28 279 000	25 096 000	20 498 000	18 528 000
EU32 Total	701 600 000	694 500 000	685 000 000	683 500 000	680 200 000

Note(s):-

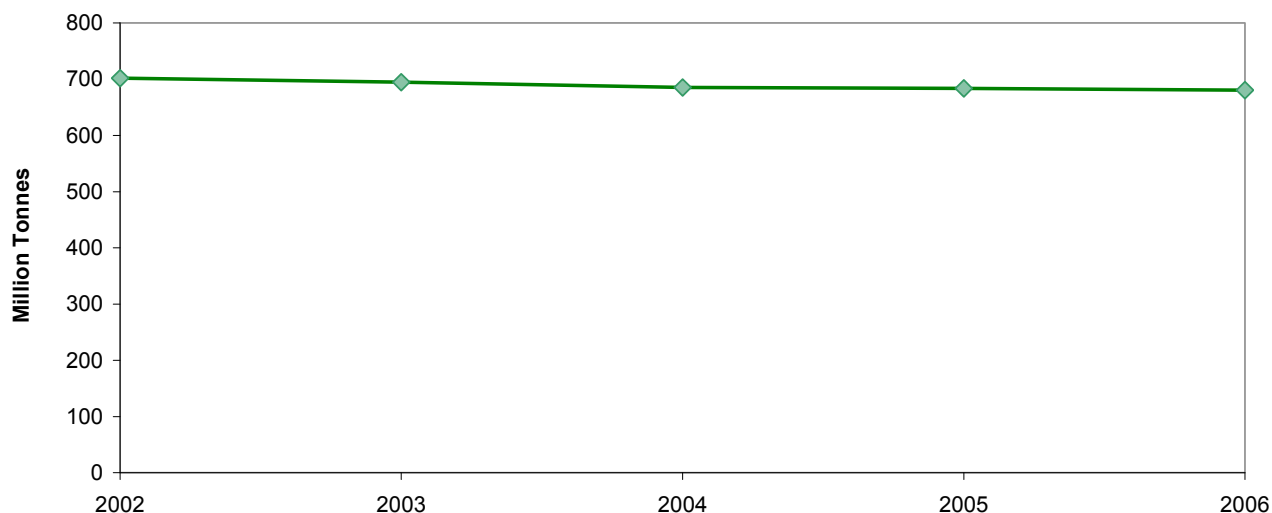
(1) There is no international agreement as to the separate definition of lignite and brown coal. In some cases they are distinguished. Elsewhere both may be aggregated under one or other term

(a) Coal; all forms

(b) Spitzbergen: not including production from mines controlled by the former Soviet Union

(c) Including anthracite

EU32 Production of coal 2002 - 06



Exports of coal

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Anthracite	940 201	999 793	1 399 280	1 463 646	1 521 523
Other coal	1 783 567	1 777 869	2 273 223	2 948 838	3 734 518
Briquettes	43 484	19 122	...	11 682	7 923
Czech Republic					
Hard coal (b)	5 680 003	5 668 451	5 706 798	5 260 739	6 690 917
Lignite	1 770 888	1 082 961	1 072 275	1 324 025	1 300 406
Briquettes	188 383	191 650	160 823	148 966	213 621
Denmark					
Hard coal	97 862	6 665	7 380	86 739	49 964
Estonia					
Hard coal (b)	37 954	5 875	...	...	276
France					
Anthracite	26 834	9 324	1 077	14 913	10 442
Other coal	94 865	74 343	93 265	68 197	128 523
Germany					
Hard coal (b)	49 449	182 233	183 694	255 029	199 311
Lignite	273 953	71 777	430	73	27 801
Briquettes	173 867	156 179	87 651	74 800	83 653
Greece					
Briquettes	40 046	71 510	67 701	51 752	23 465
Hungary					
Lignite	...	13 966	81 047	366 132	—
Irish Republic					
Briquettes	20 130	21 151	18 049	13 103	4 823
Italy					
Hard coal (b)	33 141	17 124	92 227	66 115	38 239
Netherlands					
Anthracite	162 820	206 426	161 320	165 918	196 407
Other coal	6 539 589	5 574 363	8 624 870	8 445 919	11 940 024
Briquettes	13 472	1 362	71 710	58 241	73 524
Poland					
Anthracite	6 677	71 646	8 599	23 331	31 200
Other coal	22 608 910	20 044 204	19 684 005	20 816 121	16 586 467
Lignite	41 287	35 824	26 929	8 211	317
Slovakia					
Hard coal (b)	22	18	34 346	47 485	32 784
Slovenia					
Lignite	—	...	1 959	6 881	29 794
Spain					
Anthracite	12 173	47 185	48 710	49 563	74 826
Other coal	6 384	7 904	14 624	8 208	135 401
Turkey					
Anthracite	12 062	9 540	11 077	10 324	1 259
United Kingdom					
Anthracite	187 372	180 382	172 486	169 252	137 353
Other coal	341 626	352 620	439 930	380 426	354 281
Lignite	...	2 629	2 335	2 321	2 748
Briquettes	64 094	60 172	41 094	20 713	20 037

Note(s):-

(1) This table excludes bunker shipments

(b) Including anthracite

Coal

Imports of coal

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Hard coal (b)	3 993 504	3 965 922	3 552 594	4 108 821	3 912 731
Lignite	61 439	59 077	38 833	2 139	2 294
Briquettes	76 354	84 343	83 035	96 318	101 389
Belgium-Luxembourg					
Anthracite	3 412 532	3 439 165	4 134 160	3 293 344	2 608 840
Other coal	8 263 921	8 342 288	9 728 235	8 997 265	10 534 424
Lignite	244 300	219 162	232 809	229 192	279 982
Briquettes	53 715	14 717	3 924	14 120	29 848
Bulgaria					
Anthracite	1 173 622	1 396 246	1 464 605	2 016 911	2 170 631
Other coal	2 315 367	3 038 589	2 784 512	2 270 525	2 221 526
Croatia					
Hard coal	281 298	1 034 849	1 218 407	957 899	1 082 446
Lignite	34 807	69 679	79 921	77 959	78 226
Briquettes	65 401	22 828	2 981	4 734	6 084
Cyprus					
Hard coal	71 734	23	108	3	23 473
Briquettes	1 077	1 173	1 028	935	869
Czech Republic					
Anthracite	19 893	15 177	52 247	43 713	61 255
Other coal	1 199 062	1 265 727	1 642 568	1 192 214	1 896 977
Denmark					
Anthracite	120 888	92 434	77 502	52 143	85 883
Other coal	6 087 316	9 126 099	7 487 269	5 881 938	9 234 248
Briquettes	42 868	15 451	9 851	15 865	3 473
Estonia					
Hard coal (b)	59 183	60 731	44 399	53 647	95 079
Finland					
Hard coal (b)	5 788 973	10 145 037	8 283 891	4 724 392	6 683 990
France					
Anthracite	1 323 661	1 557 639	2 076 592	3 266 840	3 018 025
Other coal	13 960 659	15 082 984	17 619 595	16 234 759	16 372 754
Lignite	23 470	41 784	40 405	34 396	36 436
Briquettes	74 423	68 883	75 872	116 845	147 381
Germany					
Anthracite	775 851	1 143 311	1 413 902	991 877	2 499 908
Other coal	26 629 962	25 164 977	31 047 441	29 452 512	35 218 836
Lignite	1 040 979	49 433	10 570	9 890	10 070
Briquettes	154 033	178 993	95 446	110 971	128 877
Greece					
Anthracite	47 356	51 753	37 633	35 475	39 250
Other coal	238 619	803 239	753 949	724 600	461 181
Hungary					
Hard coal (b)	874 393	1 108 289	1 347 232	498 369	463 481
Lignite	259 129	311 845	403 297	710 417	686 862
Briquettes	16 259	...	12 295	14 310	15 416
Irish Republic					
Anthracite	163 733	164 270	100 792	60 325	68 190
Other coal	1 337 469	1 307 994	2 930 298	2 641 074	1 908 618
Briquettes	28 105	46 789	48 348	35 959	48 158
Italy					
Anthracite	193 308	243 578	338 706	369 840	282 831
Other coal	19 682 422	21 029 014	25 382 339	24 714 768	24 860 362
Briquettes	11 702	10 270	9 374	9 136	10 207
Latvia					
Hard coal (b)	101 680	123 844	94 896	115 720	159 787
Lithuania					
Hard coal (b)	222 485	294 938	260 684	290 058	391 032
Macedonia					
Hard coal	6 031	64 851	53 495	98 024	179 193
Briquettes	112 612	198 246	190 519	188 634	103 508

Imports continued

tonnes

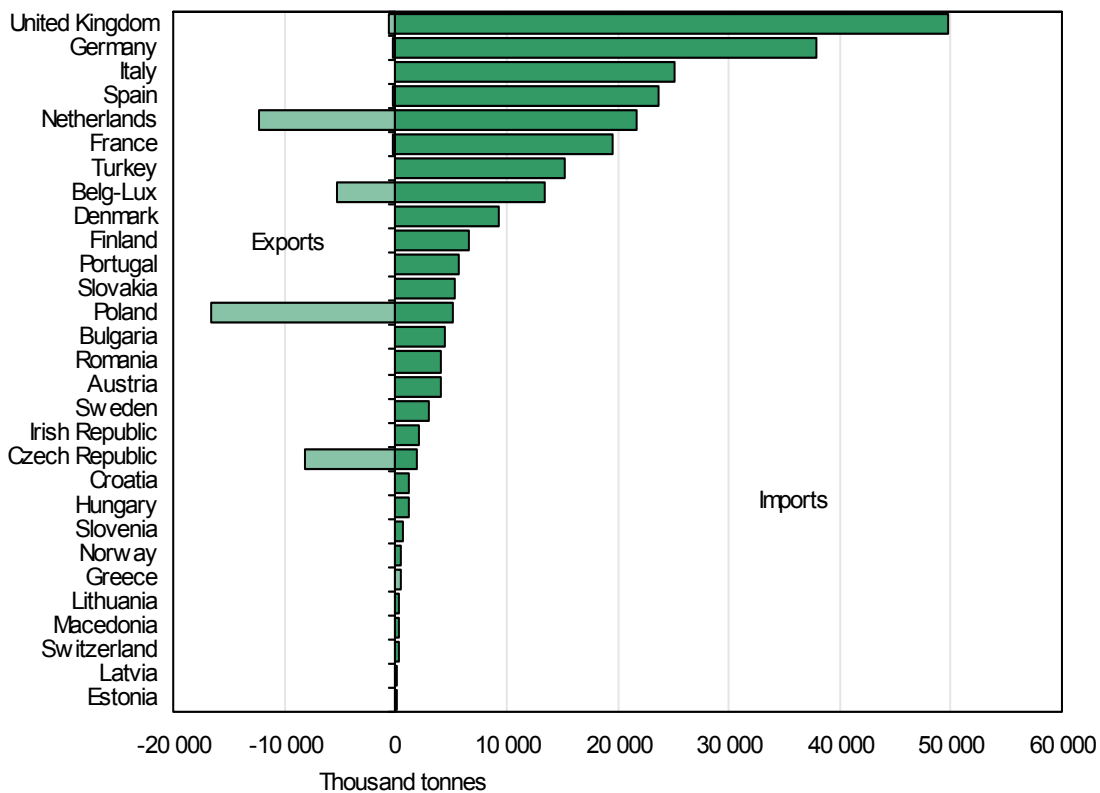
Country	2002	2003	2004	2005	2006
Netherlands					
Anthracite	190 633	363 692	293 892	186 936	218 516
Other coal	18 685 529	20 158 178	22 241 661	21 958 859	21 368 119
Lignite	36 923	23 782	18 294	30 769	22 548
Briquettes	13 474	24 574	15 510	58 737	83 734
Norway					
Anthracite (a)	56 263	84 858	71 785	92 673	55 914
Other coal (a)	598 378	586 775	693 106	575 921	472 129
Poland					
Anthracite	37 788	49 745	168 095	263 929	295 026
Other coal	2 729 972	2 506 316	2 231 606	3 112 462	4 866 783
Portugal					
Anthracite	211 583	276 685	30 630	48 785	30 688
Other coal	5 627 373	5 084 416	5 241 255	5 386 968	5 630 721
Romania					
Anthracite	14 124	18 267	74 708	82 683	60 272
Other coal	3 658 335	3 251 154	3 584 413	3 681 406	3 398 344
Lignite	153	18 554	44 787	367 781	620 251
Slovakia					
Anthracite	8 875	...	...	111 906	38 147
Other coal	4 621 134	(b) 4 944 486	(b) 5 181 166	5 231 562	4 411 685
Lignite	710 943	805 556	717 562	700 503	877 582
Briquettes	3 162	1 803	20 243	33 049	10 863
Slovenia					
Hard coal (b)	34 607	54 168	38 849	51 173	47 221
Lignite	539 356	488 929	584 117	543 465	614 851
Spain					
Anthracite	1 729 758	2 015 985	2 376 019	2 534 019	2 508 261
Other coal	22 792 868	19 537 014	22 098 156	22 222 316	21 196 872
Sweden					
Anthracite	11 078	99 008	7 304	13 013	28 506
Other coal	2 652 007	3 081 407	3 059 218	3 187 798	3 003 919
Briquettes	...	8 768	4 335	8 443	27 164
Switzerland					
Anthracite	6 828	6 146	7 396	6 640	7 978
Other coal	115 061	79 125	169 472	93 584	143 425
Lignite	128	24	455	34 897	86 762
Turkey					
Anthracite	213 743	340 165	397 125	413 333	502 178
Other coal	13 394 458	15 215 711	16 033 118	16 126 628	14 658 368
United Kingdom					
Anthracite	1 550 849	334 883	197 788	187 388	125 011
Other coal	27 110 435	31 538 546	35 958 449	43 890 778	49 544 012
Briquettes	17 127	7 638	8 498	6 554	9 995

Note(s) :-

(a) Excludes coal imported from Spitzbergen

(b) Including anthracite

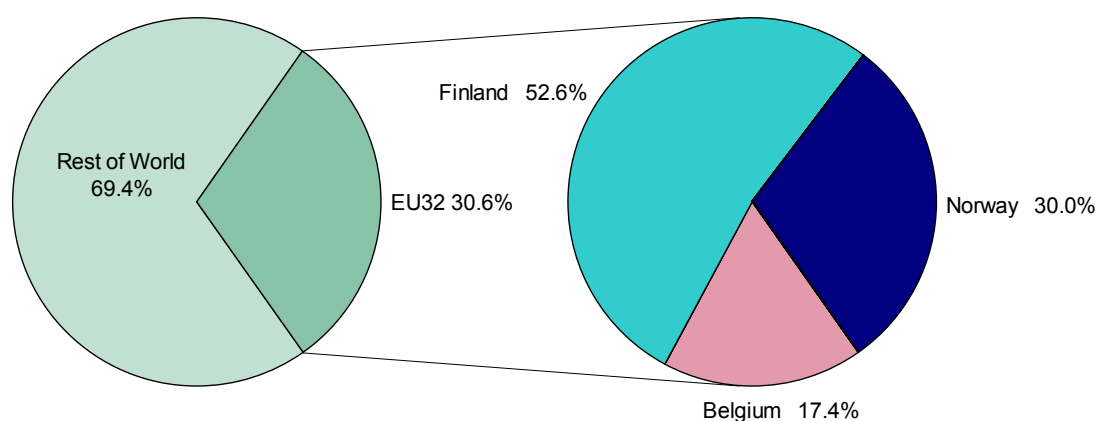
Coal - EU32 trade in 2006



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 2006 (22 000 tonnes, 37%). Zambia, Canada, Cuba, Brazil and Australia also produced 7–10% each. Production in China (3.6%) has stepped up in recent years with production doubling since 2002. There was no mine production within the EU32. 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 2006 cobalt (min. 99.8% ingot) traded between US\$13/lb and US\$27/lb.

EU32 Production of cobalt metal 2006



Production of cobalt metal

tonnes

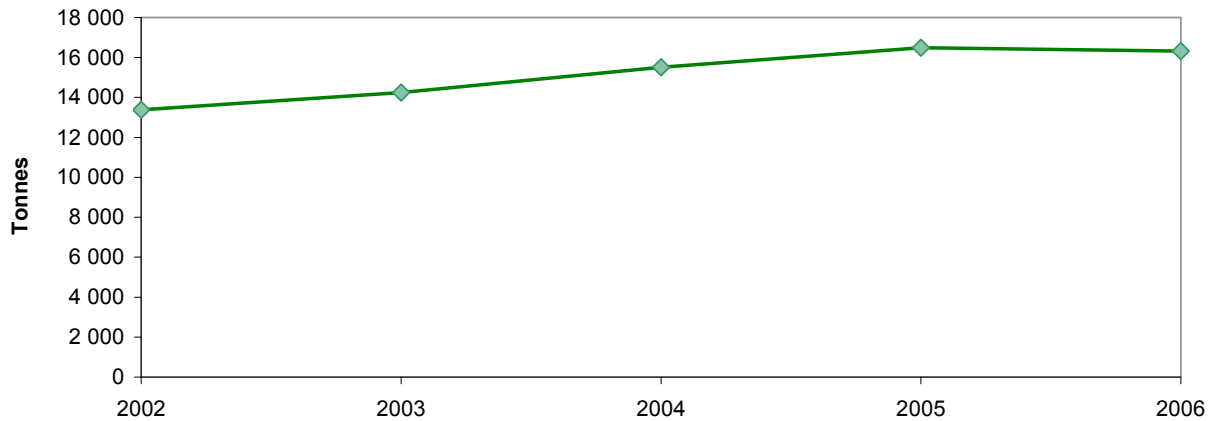
Country	2002	2003	2004	2005	2006
Belgium	1 135	1 704	(a) 2 947	(a) 3 298	(a) 2 840
Finland	8 240	7 989	7 893	8 171	8 582
Norway	4 000	4 556	4 670	5 021	4 900
EU32 Total	13 400	14 200	(a) 15 500	(a) 16 500	(a) 16 300

Note(s):-

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

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

EU32 Production of cobalt metal 2002 - 06



Exports of cobalt

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	173	85	22	5	10
Belgium-Luxembourg					
Ore	145	381	1 064	543	197
Metal	(a) *3 600	(a) *3 800	(a) *3 900	(a) *3 100	4 329
Oxides	(a) *3 800	(a) *6 900	(a) *2 100	(a) *5 400	(d) *5 800
Estonia					
Metal	—	143	12	...	3
Finland					
Metal (b)	*3 900	*4 100	*5 200	*5 800	*5 700
Oxides (b)	*3 700	*3 400	*2 100	*1 700	*2 200
France					
Metal	516	502	675	699	709
Oxides	64	69	221	57	68
Germany					
Metal	901	1 116	1 441	1 395	1 602
Oxides	122	151	233	185	140
Irish Republic					
Metal	114	79	32	42	43
Oxides	119	118	11	—	38
Italy					
Metal	98	174	236	97	224
Oxides	49	63	123	63	77
Netherlands					
Metal	690	2 247	1 954	1 326	587
Oxides	271	150	953	1 323	112
Norway					
Metal	3 941	4 635	4 744	4 997	4 990
Oxides	249	...	...	...	—
Poland					
Metal	1	...	26	19	8
Spain					
Metal	16	14	35	7	22
Oxides	122	8	33	59	30
Sweden					
Metal	146	117	127	127	110
Switzerland					
Metal	61	104	95	140	105
United Kingdom					
Metal	1 120	1 546	1 882	1 471	1 695
Oxides	1 233	1 380	1 233	994	750

Note(s):-

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

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

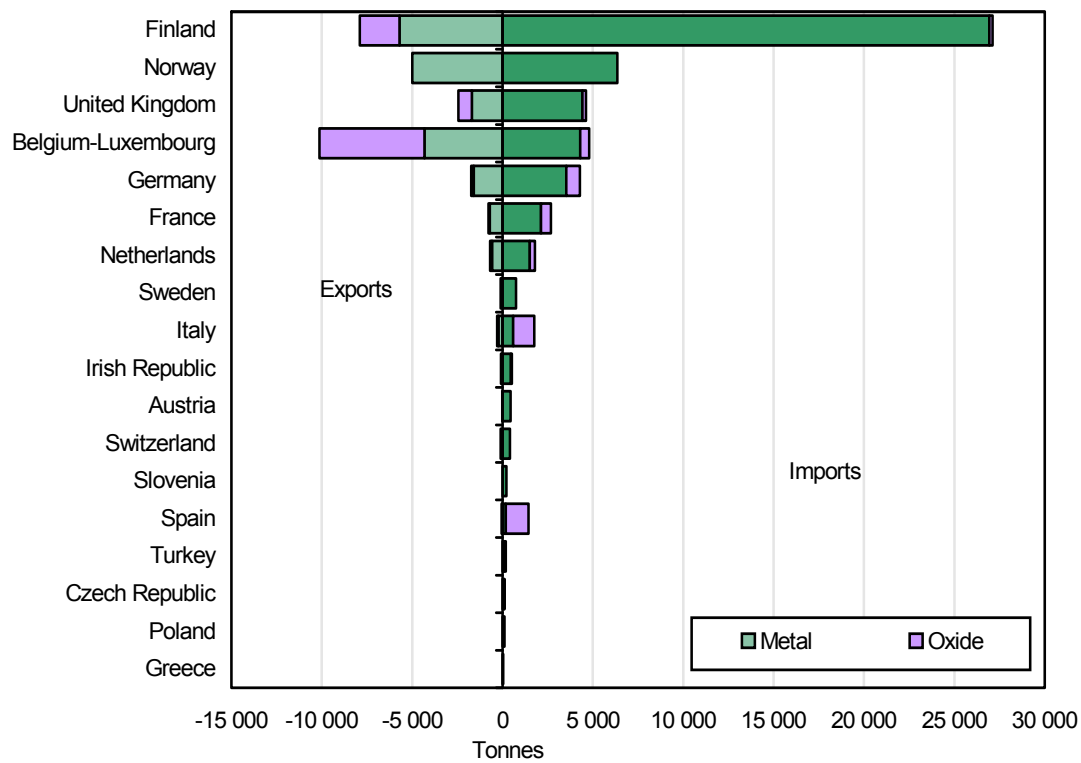
Imports of cobalt

Country	2002	2003	2004	2005	2006
Austria					
Metal	345	30	585	694	438
Belgium-Luxembourg					
Ore	—	67	455	263	107
Metal (a)	*4 700	*8 400	*7 000	*4 800	*4 300
Oxides	644	800	1 103	(a) *1 300	(a) *500
Czech Republic					
Metal	35	54	81	75	84
Oxides	32	25	33	18	24
Estonia					
Metal	0	138	17	0	3
Finland					
Ore	64 274	41 707	80 202	54 794	31 186
Metal	(a) *400	(a) *100	(a) *700	1 759	26 928
Oxides	4	45	126	336	186
France					
Ore	45	9	5	1	10
Metal	1 654	1 813	*1 600	2 038	2 117
Oxides	370	533	522	474	562
Germany					
Metal	2 349	2 568	2 602	2 990	3 532
Oxides	346	439	448	542	759
Greece					
Metal	34	30	89	31	30
Irish Republic					
Ore	2	18	30	28	35
Metal	398	282	273	390	464
Oxides	6	3	5	13	43
Italy					
Ore	41	495	122	5	11
Metal	649	449	440	468	587
Oxides	1 256	966	1 004	1 128	1 161
Netherlands					
Metal	478	551	1 340	1 532	1 511
Oxides	570	215	369	351	269
Norway					
Metal	3 131	4 773	9 629	5 775	6 362
Oxides	41	22	4	9	2
Poland					
Metal	44	49	44	35	52
Oxides	33	16	37	121	63
Slovenia					
Metal	141	198	162	209	209
Spain					
Metal	131	171	181	158	180
Oxides	1 436	1 401	1 249	1 352	1 254
Sweden					
Metal	599	663	711	660	743
Switzerland					
Metal	342	291	361	423	408
Turkey					
Metal	88	157	170	164	92
Oxides	84	108	134	139	81
United Kingdom					
Metal	4 036	3 356	3 862	3 888	4 427
Oxides	487	582	525	107	195

Note(s) :-

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

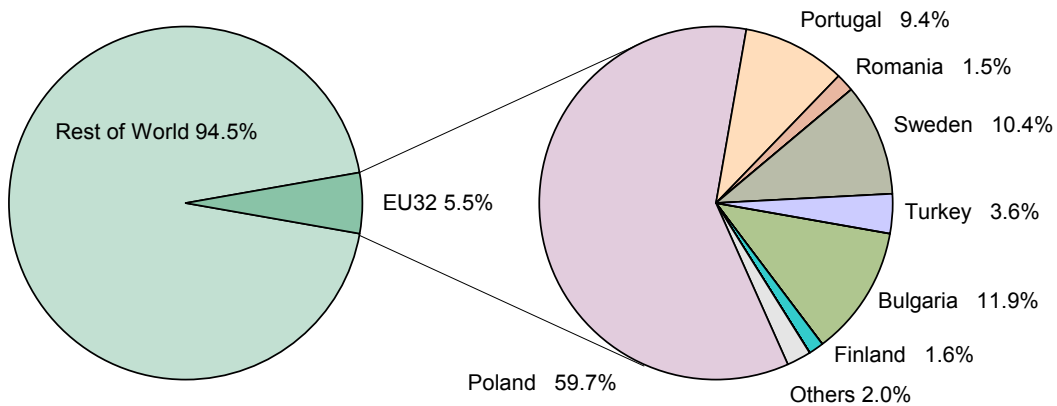
Cobalt - EU32 trade in 2006



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 2006 was dominated by Chile (36%) although many countries have some form of copper production. In the EU32 Poland (60%) was the largest mine producer and second largest refined metal producer, while Germany is a major producer of refined copper, based on imported materials.
- The copper market was exceptionally strong during 2006 with copper prices averaging US\$6700/tonne over the whole year, an 83% increase over 2005. In May the LME spot price reached a record-high of \$8780/tonne. By the end of 2006, copper prices had fallen considerably reflecting moderation in demand, recovery of global mine output from disruptions earlier in the year and growing exchange inventories.

EU32 Mine production of copper 2006



Mine production of copper

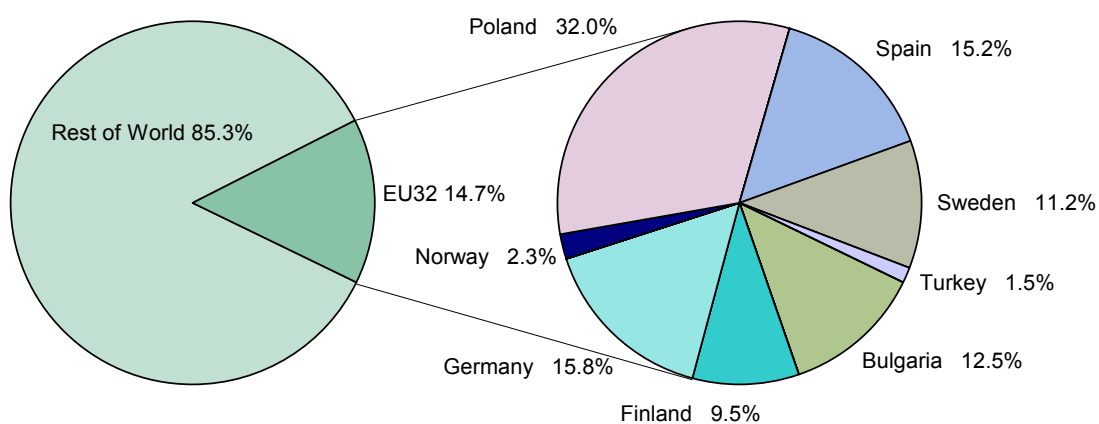
tonnes (metal content)

Country	2002	2003	2004	2005	2006
Bulgaria	84 400	91 600	79 600	82 700	99 000
Cyprus	3 700	2 500	—	—	900
Finland	14 400	14 900	15 500	15 000	13 000
Macedonia	4 739	618	—	4 799	7 054
Poland	502 800	503 544	530 768	511 799	497 200
Portugal	77 227	77 581	95 700	89 541	78 660
Romania	19 323	23 389	20 380	16 286	12 179
Spain	1 248	635	1 308	7 358	8 700
Sweden	71 991	83 143	82 415	87 068	86 746
Turkey	48 217	43 245	38 876	30 067	*30 000
EU32 Total	828 000	841 000	865 000	845 000	833 000

EU32 Mine production of copper 2002 - 06



EU32 Smelter production of copper 2006



Smelter production of copper

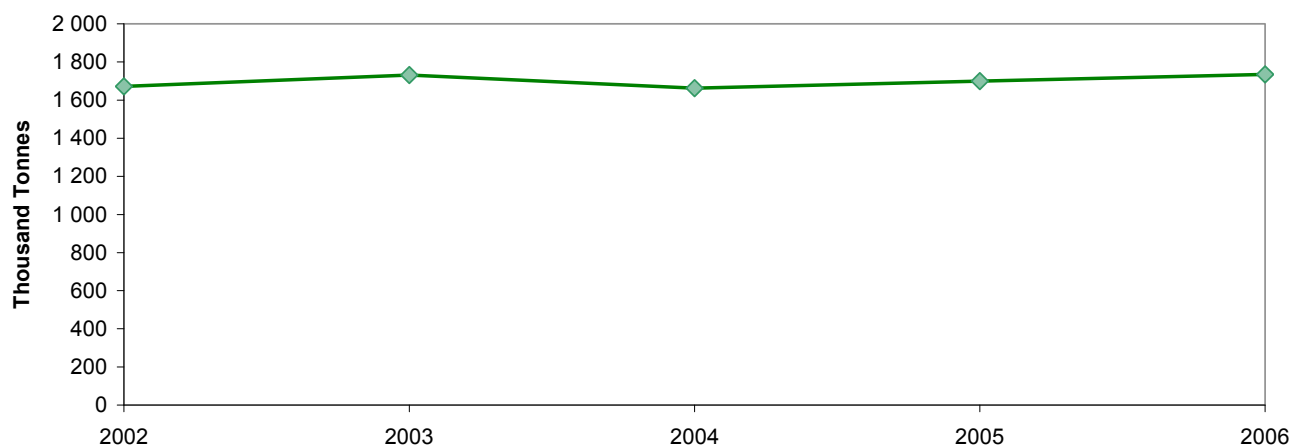
tonnes

Country	2002	2003	2004	2005	2006
Bulgaria	167 000	199 300	215 800	225 000	217 000
Finland	160 896	160 596	151 647	157 900	164 300
Germany	295 100	288 800	278 600	257 200	273 800
Norway	30 483	35 851	35 643	38 681	39 700
Poland	510 725	559 960	547 228	555 681	555 907
Romania	3 000	3 000	61	—	—
Spain	298 057	290 282	224 249	284 215	263 662
Sweden	186 984	175 475	174 459	153 399	194 194
Turkey	19 375	18 400	34 700	27 700	26 300
EU32 Total	1 672 000	1 732 000	1 662 000	1 700 000	1 735 000

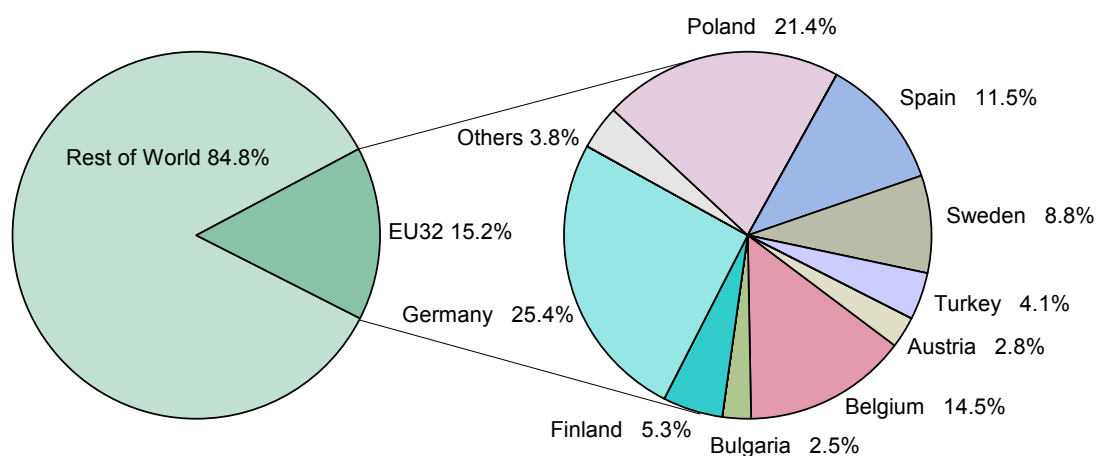
Note(s):-

(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

EU32 Smelter production of copper 2002 - 06



EU32 Production of refined copper 2006



Production of refined copper

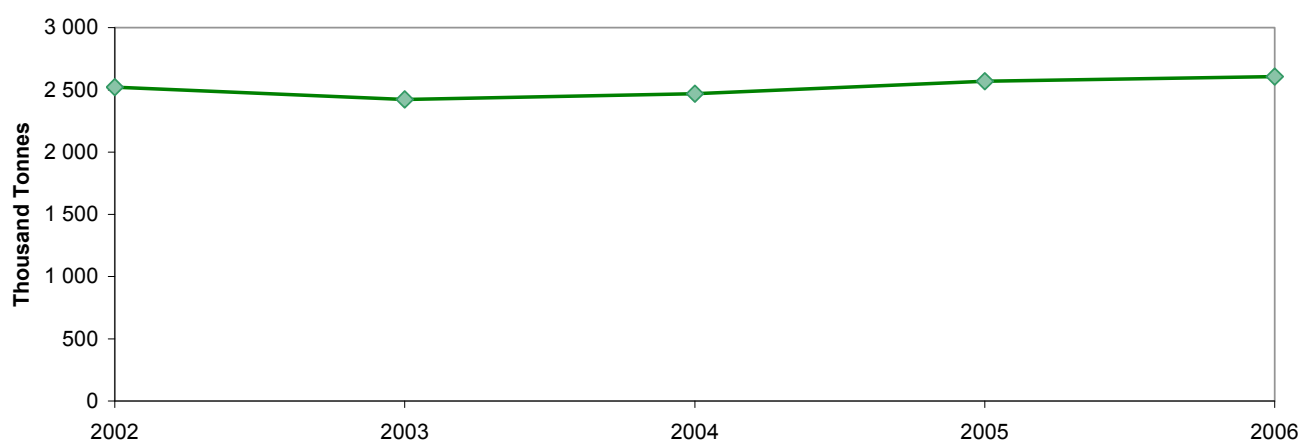
tonnes

Country	2002	2003	2004	2005	2006
Austria	64 900	65 100	74 200	72 300	72 600
Belgium	422 500	423 000	383 000	382 900	378 600
Bulgaria	40 700	45 900	55 300	60 100	65 500
Cyprus	3 695	2 552	1 344	—	880
Finland	126 016	135 713	132 384	132 126	137 961
Germany	695 741	597 531	652 600	638 800	662 300
Italy	32 400	26 700	33 600	32 200	36 400
Norway	30 600	35 852	35 643	38 681	39 700
Poland	508 674	529 616	550 066	560 256	556 625
Romania	11 453	16 739	24 526	20 739	21 581
Slovakia	6 989	600	—	—	—
Spain	312 145	293 495	228 466	313 105	299 146
Sweden	224 402	214 181	235 620	223 482	229 241
Turkey	41 000	36 900	63 000	95 000	105 800
EU32 Total	2 521 000	2 424 000	2 470 000	2 570 000	2 606 000

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

EU32 Production of refined copper 2002 - 06



Copper

Exports of copper

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought	74 370	81 897	71 119	83 750	84 104
Unwrought alloys	916	907	580	604	2 509
Scrap	25 765	25 606	36 476	33 274	39 169
Belgium-Luxembourg					
Ores & concentrates	5	517	1 478	1 887	1 778
Matte & cement	15 222	...	493	...	1 026
Unwrought, unrefined	3 537	10 521	19 942	4 499	8 833
Unwrought, refined	201 367	336 637	169 556	241 363	236 804
Unwrought alloys	14 815	21 710	13 556	14 463	13 419
Scrap	127 668	152 584	169 397	177 787	163 418
Bulgaria					
Ores & concentrates	83 032	72 861	78 563	124 717	193 389
Matte & cement	4 233	4 356	6 718	5 750	4 818
Unwrought	173 720	218 482	219 415	219 009	210 520
Scrap	9 459	9 507	9 480	8 244	13 163
Croatia					
Scrap	7 001	7 497	9 613	10 814	12 105
Cyprus					
Unwrought	3 697	2 610	1 322	...	879
Scrap	2 808	1 266	2 221	2 548	2 684
Czech Republic					
Unwrought	1 712	978	7 834	4 251	12 651
Scrap	38 121	36 874	53 086	53 707	57 152
Denmark					
Scrap	37 058	39 487	38 573	27 227	31 076
Estonia					
Scrap	7 285	6 857	6 479	6 660	11 801
Finland					
Unwrought, unrefined	43 523	33 180	25 618	29 685	34 962
Unwrought, refined	37 256	34 333	27 650	40 170	55 239
Unwrought alloys	1 002	724	903	746	1 533
Scrap	16 462	19 693	23 543	30 577	31 182
France					
Unwrought	15 723	32 947	60 745	48 050	47 839
Unwrought alloys	9 283	6 585	11 940	9 851	9 680
Scrap	192 020	180 294	243 074	262 874	290 528
Germany					
Ores & concentrates	15 630	48 674	49 617	46 139	54 167
Matte & cement	787	899	944	...	101
Unwrought, unrefined	2 215	1 592	53	232	3 244
Unwrought, refined	90 919	117 566	137 238	149 083	146 137
Unwrought alloys	26 876	21 421	21 038	20 232	22 941
Scrap	300 340	363 762	373 809	439 134	465 264
Greece					
Unwrought, refined	...	1 414	1 894	1 242	2 541
Unwrought alloys	...	2 179	1 273	365	1 142
Scrap	6 520	9 460	8 517	15 126	16 889
Hungary					
Scrap	17 867	27 405	31 741	34 861	27 051
Irish Republic					
Scrap	9 043	17 824	16 118	13 152	15 784
Italy					
Matte & cement	5 982	561	366	107	1 511
Unwrought	7 528	13 371	22 988	6 387	13 567
Unwrought alloys	12 631	12 110	16 772	14 128	14 620
Scrap	46 184	53 184	97 964	110 711	102 463
Latvia					
Scrap	7 775	6 329	7 153	9 207	7 116
Lithuania					
Scrap	9 719	8 383	7 611	5 821	5 020
Macedonia					
Ores & concentrates	23 405	3 723	648	21 441	31 547
Scrap	701	1 065	1 413	1 926	3 190

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Netherlands					
Unwrought	10 075	18 605	32 548	39 638	31 204
Scrap	101 624	109 595	140 909	207 551	306 132
Norway					
Unwrought	32 302	35 392	35 632	37 430	38 232
Unwrought alloys	1 421	1 195	988	1 707	1 141
Scrap	15 814	25 382	21 256	22 667	24 205
Poland					
Matte & cement	2 720	763	1 606	...	13 519
Unwrought	279 803	278 113	275 089	290 462	287 666
Unwrought alloys	5 020	5 329	5 007	6 183	6 205
Scrap	22 529	40 542	42 763	47 463	55 285
Portugal					
Ores & concentrates	196 709	286 781	346 534	375 312	328 296
Unwrought	415	747	1 165	9 356	918
Scrap	18 236	24 440	35 927	33 583	29 736
Romania					
Ores & concentrates	87 299	94 668	81 485	84 084	72 900
Matte & cement	...	218	3 482	...	2 818
Unwrought	3 826	1 185	815	614	735
Scrap	19 432	16 683	15 979	22 665	41 911
Slovakia					
Unwrought	1 151	7 094	15 680	19 130	27 178
Scrap	7 711	8 889	12 764	14 752	18 821
Slovenia					
Scrap	8 615	10 550	12 564	13 054	15 922
Spain					
Ores & concentrates	6 756	2 682	4 327	14 434	5 835
Unwrought, unrefined	21 126	37 437	50 901	62 269	45 906
Unwrought, refined	23 999	46 677	32 366	44 365	38 205
Unwrought alloys	7 124	9 747	11 724	9 810	10 590
Scrap	72 157	62 879	77 850	99 600	84 570
Sweden					
Unwrought, refined	91 869	77 216	81 878	99 824	86 726
Unwrought alloys	6 486	7 104	5 040	5 247	6 443
Scrap	34 747	35 982	44 366	43 816	45 456
Switzerland					
Unwrought	907	1 163	1 872	10 691	1 036
Scrap	55 491	56 398	69 243	74 878	74 079
Turkey					
Ores & concentrates	209 656	151 667	180 609	145 118	68 286
Unwrought	22 324	18 709	12 846	13 187	7 407
Scrap	9 897	18 492	4 529	14 977	3 822
United Kingdom					
Matte & cement	10 724	2 723	79	41	515
Unwrought	32 276	2 924	7 362	16 253	6 122
Unwrought alloys	26 666	24 121	22 035	15 013	17 251
Scrap	163 579	210 169	244 749	238 557	311 058

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

(a) Imports into the Netherlands

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

Copper

Imports of copper

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought, unrefined	—	—	15 203	20 081	26 508
Unwrought, refined	24 707	29 479	18 429	21 176	29 298
Unwrought alloys	2 555	3 103	2 460	2 260	2 979
Scrap	80 512	82 015	87 807	82 787	88 684
Belgium-Luxembourg					
Matte & cement	—	9	4 799	370	1 111
Unwrought, unrefined	209 172	291 190	291 111	237 645	267 505
Unwrought, refined	36 907	58 266	17 318	9 515	21 818
Unwrought alloys	1 659	1 641	1 510	1 906	1 083
Scrap	261 567	225 822	256 504	257 738	300 260
Bulgaria					
Ores & concentrates	281 687	454 875	561 613	632 255	581 055
Matte & cement	...	8 542	383	562	5 003
Unwrought	8 392	3 880	8 599	18 613	19 735
Scrap	1 919	2 722	2 935	5 094	7 784
Czech Republic					
Unwrought	12 110	6 326	5 644	4 551	8 321
Scrap	1 656	2 080	5 601	6 114	8 104
Denmark					
Unwrought	2 560	2 324	2 065	1 702	4 081
Scrap	12 564	18 332	16 446	13 827	14 646
Finland					
Ores & concentrates	500 798	543 488	528 930	504 658	544 149
Unwrought alloys	3 796	4 311	2 778	3 229	3 996
Scrap	3 190	2 472	1 735	2 423	1 259
France					
Matte & cement	58	1 651	386	19	20
Unwrought, unrefined	253	118	168	248	275
Unwrought, refined	576 398	578 525	590 304	516 881	506 721
Unwrought alloys	13 722	8 308	7 564	10 132	11 029
Scrap	65 362	70 422	78 853	75 464	97 462
Germany					
Ores & concentrates	1 037 247	880 332	1 141 843	1 149 088	1 148 316
Matte & cement	2 389	33 896	15 085	25 931	30 463
Unwrought, unrefined	38 455	17 319	11 635	36 671	41 589
Unwrought, refined	459 451	516 590	584 852	624 688	881 427
Unwrought alloys	26 887	38 410	24 066	26 657	36 770
Scrap	438 312	379 726	426 995	432 147	552 413
Greece					
Unwrought	126 027	107 425	120 088	90 557	106 404
Unwrought alloys	699	843	550	488	4 439
Scrap	2 672	1 979	1 864	930	2 141
Hungary					
Unwrought	18 994	14 327	11 365	3 269	2 175
Scrap	3 483	502	512	500	516
Irish Republic					
Scrap	1 087	514	16	27	50
Italy					
Unwrought, unrefined	636	310	216	955	323
Unwrought, refined	643 386	650 757	700 101	652 089	774 140
Unwrought alloys	19 779	21 862	16 723	8 053	15 174
Scrap	188 238	164 700	128 501	124 737	214 289
Netherlands					
Unwrought, unrefined	11	2 867	10 185	10 485	18 333
Unwrought, refined	156 095	123 682	125 310	135 004	147 428
Unwrought alloys	1 725	1 326	2 172	1 904	2 214
Scrap	70 660	80 262	98 396	92 927	110 753
Norway					
Unwrought	3 645	1 190	2 594	3 190	3 133
Scrap	7 609	12 591	11 270	12 420	12 759
Poland					
Ores & concentrates	5 397	...	30	43 504	112 708
Unwrought	1 484	2 257	3 071	7 118	40 899
Scrap	5 203	6 001	14 973	5 855	4 885

Imports continued

tonnes

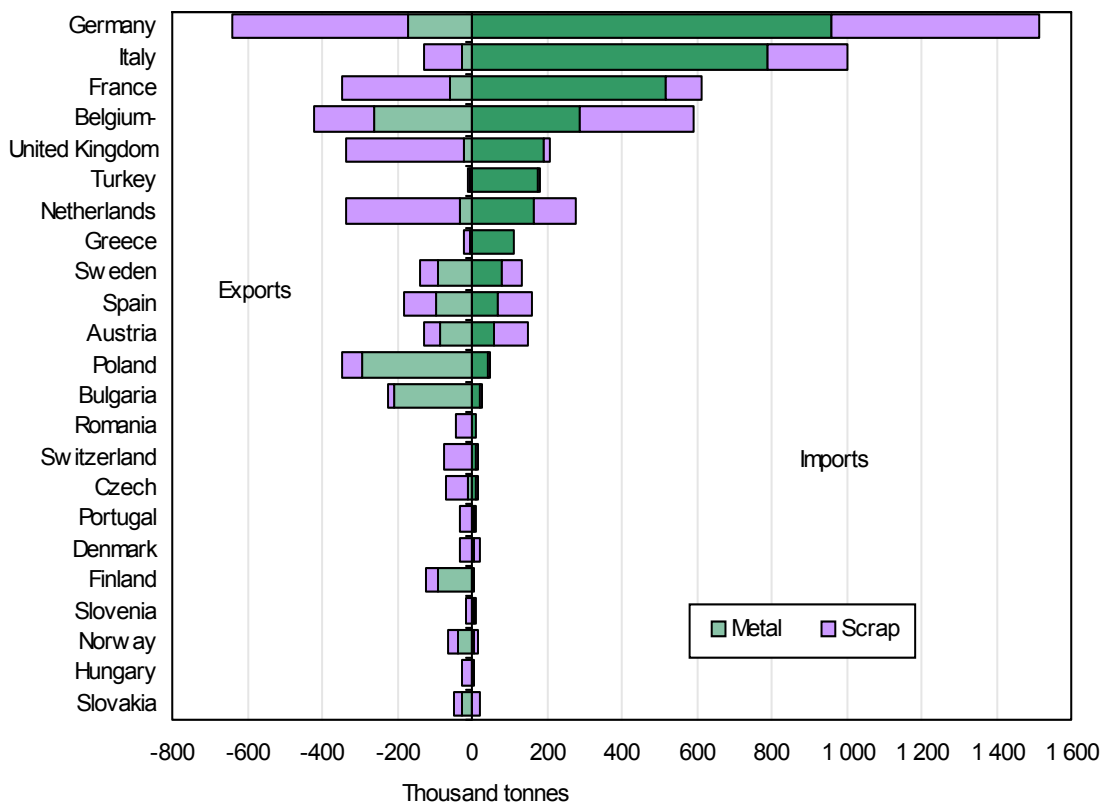
Country	2002	2003	2004	2005	2006
Portugal					
Unwrought	4 307	6 245	7 740	4 572	5 752
Scrap	838	1 383	1 874	3 329	5 946
Romania					
Unwrought	12 248	2 225	7 255	9 723	12 794
Slovakia					
Matte & cement	170	104	758	4 342	1 071
Unwrought	11 400	3 689	1 269	1 718	2 084
Scrap	5 604	8 448	20 776	19 977	17 973
Slovenia					
Unwrought	4 005	3 835	2 948	2 764	3 150
Scrap	3 119	3 787	3 743	5 762	9 000
Spain					
Ores & concentrates	1 057 377	1 052 115	776 980	1 040 099	1 100 338
Unwrought, unrefined	9 150	15 283	2 488	312	2 631
Unwrought, refined	28 095	33 781	74 277	69 039	62 982
Unwrought alloys	7 256	4 444	5 254	4 458	5 898
Scrap	83 664	57 315	112 934	84 824	89 252
Sweden					
Ores & concentrates	349 409	300 566	340 858	311 085	267 753
Unwrought, unrefined	36	3	2	15 452	35 496
Unwrought, refined	36 976	48 468	34 912	40 106	41 036
Unwrought alloys	4 622	2 947	2 762	2 926	3 944
Scrap	43 544	52 091	76 672	50 940	54 483
Switzerland					
Unwrought	5 899	5 206	6 779	4 734	4 843
Unwrought alloys	3 300	3 496	4 481	3 897	4 695
Scrap	8 406	9 469	11 881	9 937	7 641
Turkey					
Ores & concentrates	61 302	54 573	10 370	44 633	15 921
Unwrought, unrefined	7 117	100	29 555	53 214	24 682
Unwrought, refined	205 955	229 159	217 290	223 978	150 412
Unwrought alloys	1 107	3 768	4 685	3 212	2 160
Scrap	7 061	29 803	34 975	9 629	4 374
United Kingdom					
Unwrought, unrefined	89	14	122	1 978	264
Unwrought, refined	316 578	245 152	214 067	181 767	183 727
Unwrought alloys	5 480	6 160	8 070	6 191	6 743
Scrap	19 240	17 378	15 731	42 264	19 744

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

(a) Cu content

Copper - EU32 trade in 2006



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 53% of all carats produced in 2006. 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 EU32 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 US\$1000/carat. Industrial diamond prices range from around US\$0.40/carat–US\$200/carat for large stones but are typically around US\$10/carat.

Exports of diamond

carats

Country	2002	2003	2004	2005	2006
Austria					
Unsorted	£2 321 000	£319 000	£477 000	£188 000	£211 000
Gem, cut	£1 950 000	£1 660 000	£1 665 000	£2 895 000	£3 157 000
Dust	£653 000	£190 000	£432 000	£406 000	£45 000
Belgium-Luxembourg					
Unsorted	...	...	...	£785 000	£889 000
Gem, rough	...	131 000 000	154 000 000	147 000 000	128 000 000
Gem, cut	8 000 000	6 500 000	6 000 000	5 500 000	4 500 000
Industrial	8 000 000	10 500 000	7 000 000	5 500 000	2 000 000
Dust	39 500 000	38 000 000	42 500 000	40 000 000	35 500 000
Czech Republic					
Gem, cut	£122 852	£330 365	£160 545	£330 503	£450 885
France					
Unsorted	£283 000	£398 000	£274 000	£518 000	£451 000
Gem, rough	...	...	...	500 000	...
Gem, cut	...	1 000 000	1 500 000	1 500 000	...
Industrial	£2 554 000	£915 000	£20 000	£50 000	£388 000
Germany					
Unsorted	£16 000	£138 000	£663 000	£756 000	£21 000
Gem, rough	£10 000	£87 000	£250 000	£619 000	£95 000
Gem, cut	178 297	174 915	...	165 090	...
Industrial	£1 166 000	£1 254 000	£974 000	£1 168 000	£1 244 000
Dust	10 000 000	17 000 000	13 500 000	9 000 000	42 500 000
Greece					
Gem, cut	25 000	1 895 000	55 000	1 840 000	325 000
Irish Republic					
Unsorted	105 000	16 960 000	5 785 000	25 000	1 420 000
Gem, rough	7 285 000	5 040 000	15 000	25 000	5 000
Industrial	7 120 000	2 275 000	3 395 000	1 610 000	3 115 000
Italy					
Gem, cut	£15 982 000	£21 938 000	£26 708 000	£30 464 000	£63 360 000
Industrial	£607 000	£228 000	£565 000	£666 000	£489 000
Dust	104 155 000	42 170 000	49 130 000	48 455 000	30 250 000
Malta					
Gem, cut	...	£77 487	£411 702	£155 074	£1 452 693
Netherlands					
Unsorted	£1 672 000	£1 490 000	£1 883 000	£928 000	£1 564 207
Gem, rough	£64 000	£437 000	—	—	...
Gem, cut	£10 491 000	£8 511 000	£9 806 000	£8 687 000	£16 579 000
Industrial	£758 000	£813 000	£188 000	£842 000	£4 146 000
Dust	£505 000	£776 000	£724 000	£44 000	£112 000
Norway					
Gem, cut	60 000	...	40 000	90 000	40 000
Portugal					
Gem, rough	£1 793 000	£3 650 000	£96 000	—	...
Gem, cut	£23 412 000	£37 983 000	£45 779 000	£17 981 000	£8 000

Diamond

Exports continued

carats

Country	2002	2003	2004	2005	2006
Romania					
Dust	...	...	...	...	35 455 000
Spain					
Unsorted	...	£515 000	£792 000	£673 000	£531 000
Gem, cut	£3 291 000	£2 606 000	£1 855 000	£5 275 000	£61 119 000
Industrial	£613 000	£245 000	£212 000	£325 000	£331 000
Dust	615 000	385 000	3 765 000	3 760 000	210 000
Switzerland					
Gem, rough	55 000	65 000	140 000	195 608	115 000
Gem, cut	650 000	427 033	338 524	407 411	320 000
Industrial	40 000	66 354	18 185	13 934	60 000
Dust	81 580 000	95 290 000	120 790 000	126 190 000	128 180 000
United Kingdom					
Unsorted	...	9 744 443	6 394 541	16 818 545	3 544 216
Gem, rough	86 681 020	104 300 972	78 613 304	76 400 064	88 991 279
Gem, cut	394 881	828 103	1 592 715	5 330 874	2 341 635
Industrial	7 837 074	12 177 638	22 821 714	21 647 850	13 652 233
Dust	...	75 401 755	149 415 960	124 529 495	111 788 350

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	2002	2003	2004	2005	2006
Austria					
Unsorted	£1 647 000	£1 734 000	£1 193 000	£1 254 000	£1 101 000
Gem, cut	£3 789 000	£4 329 000	£4 660 000	£5 743 000	£5 892 000
Industrial	£115 000	£105 000	£631 000	£706 000	£841 000
Dust	20 000 000	15 000 000	24 000 000	23 000 000	28 000 000
Belgium-Luxembourg					
Unsorted	£45 615 000	£36 269 000	£41 932 000	£37 971 000	£38 530 000
Gem, rough	...	126 000 000	121 500 000	134 500 000	67 500 000
Gem, cut	9 500 000	6 500 000	7 500 000	6 500 000	6 000 000
Industrial	26 500 000	19 500 000	15 000 000	14 500 000	12 500 000
Dust	72 000 000	21 000 000	26 500 000	30 500 000	28 500 000
Czech Republic					
Unsorted	£128 000	£187 000	£3 000	£300	£284 000
Gem, rough	£158 000	...	...	£18 000	£3 000
Gem, cut	£382 000	£802 000	£626 000	£1 046 000	£1 095 000
Industrial	£568 000	£360 000	£163 000	£391 000	£445 000
Dust	£886 000	£858 000	£776 000	£956 000	£867 000
Denmark					
Unsorted	...	...	£294 482	£597 000	£686 000
Gem, cut	£4 006 000	£10 290 000	£9 319 000	£6 506 000	£7 252 000
Industrial	£202 339	£151 161	£106 030	£80 942	£183 695
Dust	£253 278	£310 482	£220 701	£348 708	£370 517
Finland					
Unsorted	...	...	55 000	120 000	105 000
Gem, cut	...	...	235 000	355 000	440 000
Dust	445 000	365 000	320 000	450 000	620 000
France					
Unsorted	£3 788 000	£3 728 000	£3 423 000	£3 168 000	£3 113 000
Gem, rough	...	...	...	£6 148 000	£2 720 000
Gem, cut	10 000 000	12 500 000	10 000 000	...	...
Industrial	5 500 000	3 000 000	9 000 000	...	...
Dust	10 500 000	10 500 000	10 000 000	7 500 000	2 007 491

Imports continued

carats

Country	2002	2003	2004	2005	2006
Germany					
Gem, cut	556 534	431 612	481 924	439 171	...
Industrial	1 074 120	454 003	762 967	1 572 864	...
Dust	49 500 000	69 000 000	82 500 000	38 500 000	40 000 000
Greece					
Unsorted	£367 000	£340 000	£625 000	£597 000	£1 221 000
Gem, rough	£83 000	£166 000	£145 000	£357 000	£333 000
Gem, cut	£1 437 000	£1 130 000	£1 701 000	£1 893 000	£1 592 000
Industrial	£220 000	£456 000	£771 000	£959 000	£887 000
Dust	9 520 000	6 205 000	8 390 000	19 475 000	10 550 000
Hungary					
Gem, cut	£54 619	£867 597	£1 668 850	£848 715	£245 849
Irish Republic					
Unsorted	19 505 000	22 665 000	33 525 000	39 900 000	67 655 000
Gem, rough	...	8 225 000	1 815 000	3 815 000	4 140 000
Gem, cut	30 805 000	23 370 000	21 175 000	36 975 000	44 635 000
Industrial	95 650 000	3 930 000	26 740 000	30 680 000	70 840 000
Dust	£27 972 000	£41 933 000	£29 021 000	£42 591 000	£62 772 000
Italy					
Unsorted	£1 680 000	£1 138 000	£1 655 000	£2 576 000	£2 083 000
Gem, rough	£1 425 000	£1 241 000	£928 000	£1 591 000	£1 537 000
Gem, cut	£176 777 000	£180 528 000	£210 629 000	£235 326 000	£284 772 000
Industrial	£6 699 000	£4 647 000	£5 949 000	£5 236 000	£7 903 000
Dust	147 020 000	117 845 000	135 820 000	142 000 000	152 680 000
Netherlands					
Unsorted	£2 276 000	£1 858 000	£3 327 000	£344 000	£268 668
Gem, rough	£2 950 000	£828 000	£108 000	£79 000	£632 802
Gem, cut	£17 776 000	£13 846 000	£14 630 000	£14 764 000	£22 399 699
Industrial	£827 000	£940 000	£907 000	£2 009 000	£1 849 992
Dust	£653 103	£686 612	£599 846	£425 453	£487 558
Norway					
Unsorted	100 000	125 000	45 000	...	...
Gem	2 330 000	2 165 000	2 430 000	2 895 000	2 870 000
Industrial	80 000	80 000	75 000	135 000	90 000
Dust	500 000	105 000	310 000	230 000	195 000
Poland					
Gem	15 000	50 000	...	...	...
Industrial	105 000	75 000	...	8 000 000	4 500 000
Dust	£837 000	£780 000	£940 892	£770 196	£454 729
Portugal					
Gem, rough	£24 832 000	£26 362 000	£18 757 000	£10 968 000	£925 000
Gem, cut	£5 367 000	£3 926 000	£11 608 000	£7 015 000	£2 940 000
Industrial	£874 000	£803 000	£669 000	£565 000	£381 000
Dust	750 000	690 000	710 000	...	...
Slovenia					
Industrial	50 000	...	...	...	...
Dust	£269 434	£201 810	£215 288	£148 431	£143 326
Spain					
Unsorted	£4 900 000	£4 602 000	£5 431 000	£6 908 000	£4 616 000
Gem, cut	£25 162 000	£25 111 000	£41 732 000	£37 408 000	£47 084 000
Industrial	£1 674 000	£1 809 000	£1 412 000	£1 421 000	£2 701 000
Dust	3 435 000	5 545 000	...	8 490 229	8 750 000
Sweden					
Unsorted	£156 000	£203 000	£309 000	£220 000	£143 000
Gem, cut	£2 337 000	£3 456 000	£3 205 000	£2 406 000	£2 306 000
Industrial	£51 000	£30 000	£63 000	£258 000	£184 000
Dust	£2 554 000	£2 374 000	£2 823 000	£2 573 000	£2 259 000
Switzerland					
Gem, rough	75 000	80 344	144 707	194 997	120 000
Gem, cut	850 000	642 870	820 021	1 130 984	845 000
Industrial	1 160 000	213 535	56 907	100 142	50 000
Dust	94 935 000	103 005 000	126 815 000	142 000 000	127 740 000
Turkey					
Gem	...	...	1 225 000	1 450 000	615 000
Industrial	...	...	65 000	165 000	35 000
Dust	...	...	15 900 000	26 765 000	13 675 000

Diamonds

Imports continued

carats

Country	2002	2003	2004	2005	2006
United Kingdom					
Unsorted	1 794 607	5 210 022	10 557 063	33 441 810	14 408 621
Gem, rough	70 336 037	77 712 486	68 227 020	78 735 595	78 790 692
Gem, cut	5 123 898	4 520 872	9 317 146	12 039 040	7 370 573
Industrial	7 804 225	21 518 053	30 993 560	25 367 064	11 884 651
Dust	68 359 660	92 290 565	126 277 015	125 510 400	199 882 920

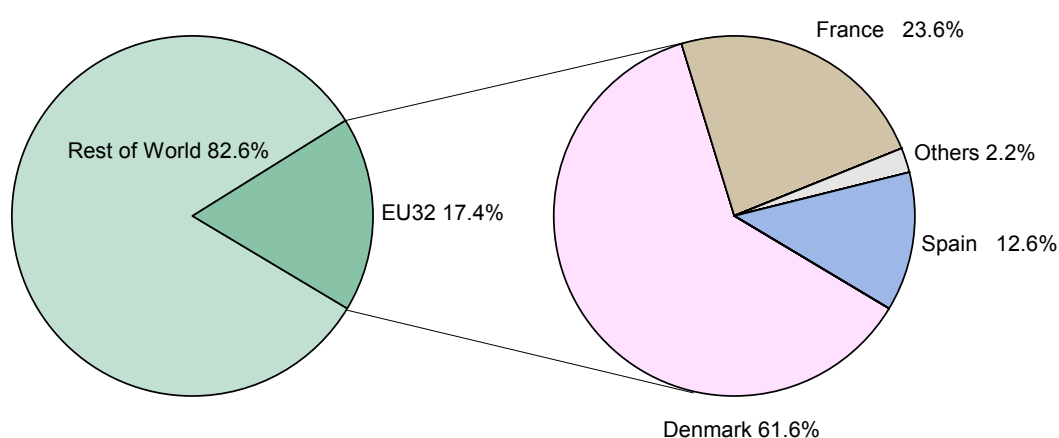
Note(s) :-

- (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
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- (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. EU32 production has been reasonably stable and is dominated by Denmark, which produces 62% of EU32 diatomite. Together, the EU32 countries produced 17% of the world's diatomite in 2006.
- Diatomite (US calcined filter-aids delivered to the UK) traded between £370/tonne and £410/tonne during 2006.

EU32 Production of Diatomite 2006



Production of diatomite

tonnes

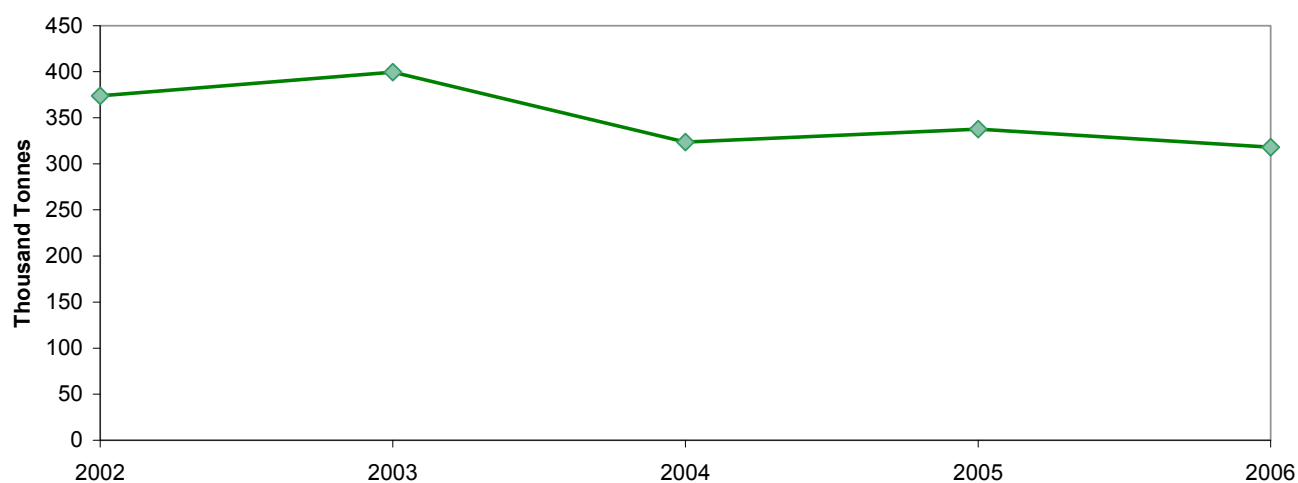
Country	2002	2003	2004	2005	2006
Czech Republic	5 600	4 800	3 800	4 100	4 827
Denmark					
Moler (a)	211 000	221 000	188 000	209 000	196 000
France	*80 000	*80 000	*75 000	*75 000	*75 000
Hungary	1 656	1 770	1 640	2 190	495
Poland	1 000	700	800	1 700	*1 700
Romania	20 922	33 296	20 626	1 402	—
Spain (b)	53 558	57 934	33 799	44 335	40 000
EU32 Total	374 000	400 000	324 000	338 000	318 000

Note(s):-

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

(b) Including tripoli

EU32 Production of diatomite 2002 - 06



Exports of diatomite

tonnes

Country	2002	2003	2004	2005	2006
Austria	5 071	4 650	5 347	5 375	4 171
Belgium-Luxembourg	3 174	1 512	1 856	1 330	1 949
Czech Republic	5 288	5 083	4 734	4 247	4 566
Denmark (a)	*74 400	*65 500	*75 800	*69 300	*71 500
France	27 647	30 199	26 043	25 379	24 866
Germany	13 061	20 036	20 312	7 000	11 500
Hungary	308	284	452	12	44
Italy	1 194	1 217	1 745	1 138	1 110
Netherlands	6 583	1 212	1 569	804	1 395
Norway	36	79	81	1 362	281
Poland	...	...	536	455	527
Portugal	135	2 050	7 755	11	286
Spain	6 829	5 385	5 278	6 694	6 118
Sweden	579	491	492	4 423	568
Switzerland	1 224	110	114	136	69
Turkey	4 653	11 294	14 581	11 045	6 986
United Kingdom	816	1 003	2 123	708	687

Note(s):-

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

Imports of diatomite

tonnes

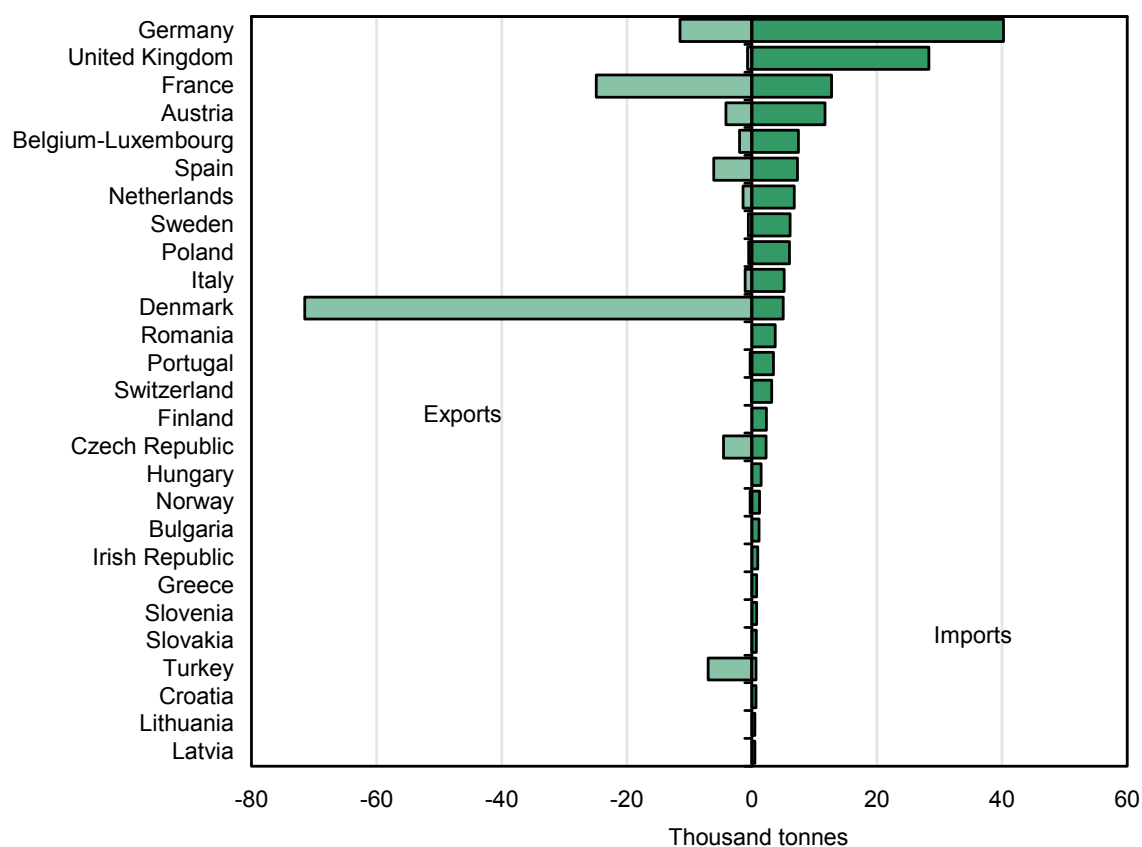
Country	2002	2003	2004	2005	2006
Austria	24 364	12 946	13 178	12 892	11 693
Belgium-Luxembourg	8 357	7 507	9 052	8 192	7 450
Bulgaria	8 478	1 139	1 292	1 312	1 156
Croatia	928	809	703	495	633
Czech Republic	1 647	1 562	1 969	2 263	2 288
Denmark	7 175	6 744	5 001	6 561	4 974
Finland	5 871	6 981	5 881	2 700	2 339
France	12 168	12 194	12 368	11 181	12 712
Germany	34 820	43 406	48 644	40 224	40 197
Greece	529	556	610	645	757
Hungary	1 633	1 593	1 390	1 158	1 476
Irish Republic	450	729	594	641	943
Italy	8 990	10 429	14 744	9 141	5 179
Latvia	236	392	592	389	467
Lithuania	503	1 499	917	520	504

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Netherlands	12 979	12 069	10 806	7 967	6 799
Norway	1 400	1 596	2 500	2 044	1 228
Poland	6 961	6 394	6 387	6 465	5 997
Portugal	1 537	3 223	2 263	3 946	3 432
Romania	2 909	3 267	3 294	3 183	3 707
Slovakia	1 283	1 067	865	675	698
Slovenia	446	450	730	846	738
Spain	4 442	10 575	7 004	5 186	7 281
Sweden	3 913	4 143	5 475	5 096	6 095
Switzerland	3 534	5 425	11 204	3 291	3 157
Turkey	1 185	1 736	1 211	1 442	657
United Kingdom	34 490	37 217	34 988	29 208	28 290

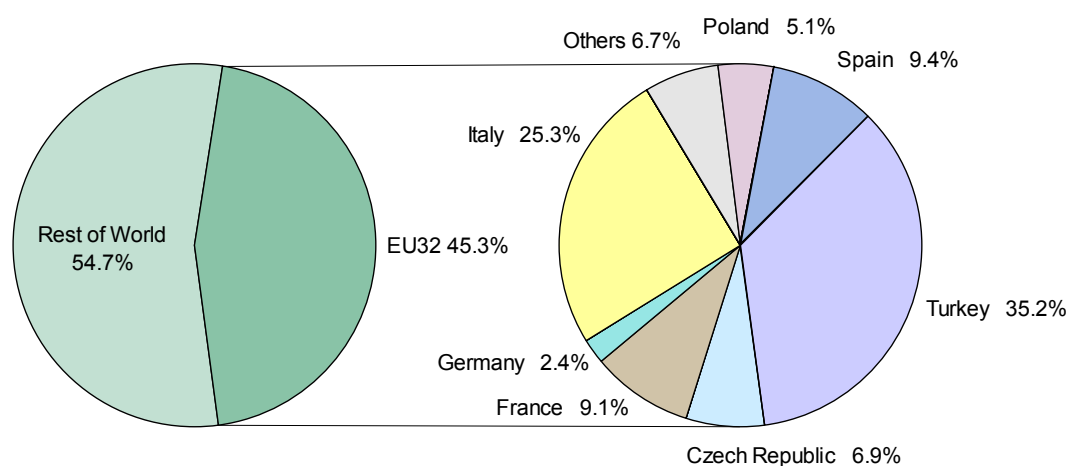
Diatomite - EU32 trade in 2006



Feldspar

- Feldspar is an abundant rock-forming aluminosilicate 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.
- Turkey is the largest world producer (16%). Together, the EU32 countries produced 45% of world feldspar production in 2006.
- Feldspar is traded in several forms, priced between US\$13/tonne (crude)–US\$205/tonne (micronised).

EU32 Production of feldspar 2006



Production of feldspar

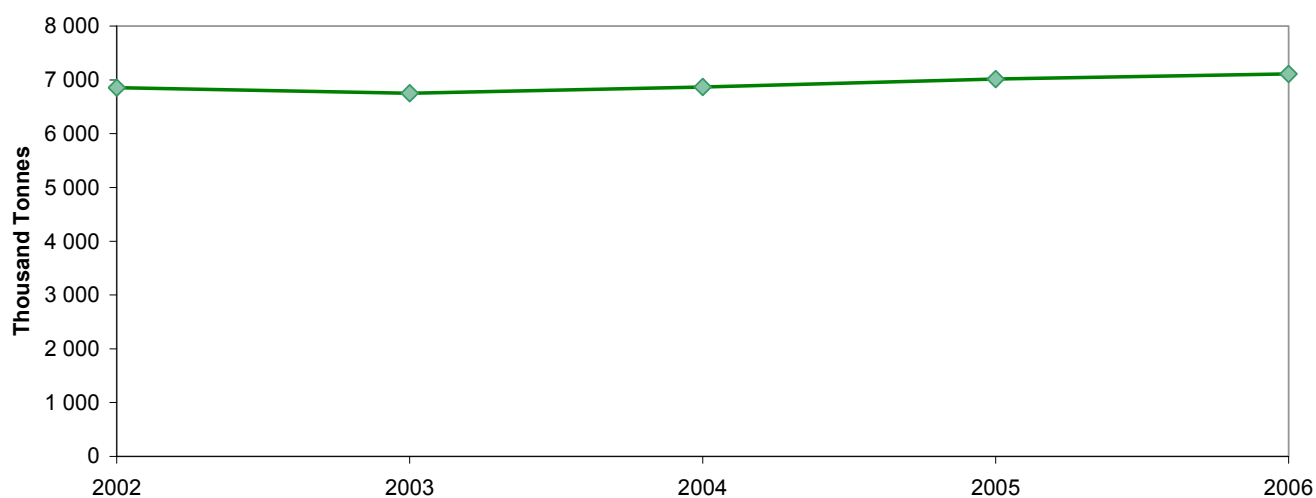
Country	2002	2003	2004	2005	2006
Bulgaria	*34 000	*35 000	*35 000	*35 000	*35 000
Czech Republic	401 000	421 000	488 000	472 000	487 000
Finland	39 552	59 362	44 495	42 783	43 187
France	659 000	654 000	628 000	651 000	*650 000
Germany	243 368	233 028	182 842	168 640	167 332
Greece	124 100	102 800	88 274	100 586	*100 000
Italy	*2 500 000	*2 200 000	2 201 258	1 801 846	*1 800 000
Macedonia	22 800	25 640	22 921	27 076	38 124
Norway	75 184	70 000	67 000	*67 000	*67 000
Poland	209 226	276 264	373 459	426 914	359 512
Portugal	141 125	129 366	98 262	133 344	129 333
Romania	51 959	72 827	60 924	74 927	37 553
Spain	548 964	563 580	552 507	650 061	670 000
Sweden	37 000	44 000	38 000	30 000	24 000
Turkey	1 766 387	1 862 310	1 983 336	2 331 971	*2 500 000
United Kingdom (a)	1 896	1 309	2 274	1 835	1 441
EU32 Total	6 856 000	6 750 000	6 867 000	7 015 000	7 109 000

Note(s):-

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

(a) China stone

EU32 Production of feldspar 2002 - 06



Exports of feldspar

tonnes

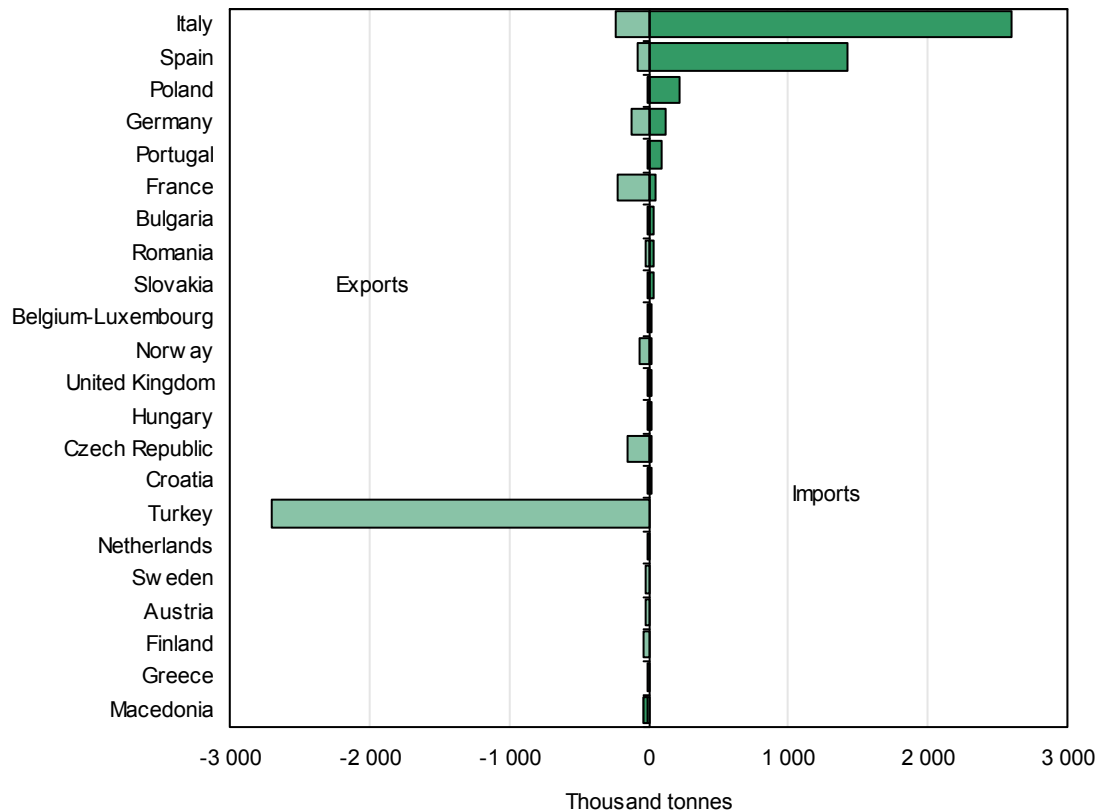
Country	2002	2003	2004	2005	2006
Austria	12 279	13 436	18 864	18 998	17 977
Bulgaria	8	612	1 131	452	6 159
Czech Republic	122 206	133 868	143 941	160 469	154 672
Finland	30 444	33 632	42 612	37 386	41 437
France	290 340	286 371	219 741	255 836	224 062
Germany	134 033	102 472	118 838	113 329	121 046
Greece	16 764	25 176	8 515	4 755	5 258
Italy	159 403	165 128	204 096	302 715	238 555
Macedonia	22 407	24 059	18 661	22 369	36 539
Netherlands	808	749	81	17	552
Norway	74 549	68 076	60 972	58 821	66 838
Poland	649	1 626	1 441	1 509	2 749
Portugal	603	5	—	1 546	862
Romania	15 465	33 265	28 820	28 859	20 563
Spain	79 520	65 385	71 993	66 427	77 348
Sweden	25 400	23 847	23 752	16 515	15 880
Turkey	2 162 841	3 027 769	3 971 725	3 001 789	2 704 372
United Kingdom	209	801	261	48	38

Imports of feldspar

tonnes

Country	2002	2003	2004	2005	2006
Austria	1 608	1 083	418	1 549	2 220
Belgium-Luxembourg	24 632	30 225	30 969	25 876	21 483
Bulgaria	21 852	23 367	30 805	34 723	40 416
Croatia	10 609	11 894	13 713	17 011	15 986
Czech Republic	7 975	7 388	8 785	13 315	16 032
Denmark	4 698	3 904	3 878	3 868	2 590
Finland	352	104	257	380	796
France	40 941	37 538	44 615	85 460	54 106
Germany	43 033	50 809	70 064	101 931	126 834
Greece	4 599	5 216	499	3 032	439
Hungary	20 250	19 131	19 205	20 184	16 091
Italy	1 871 798	2 291 993	2 693 951	2 623 428	2 603 981
Lithuania	3 259	3 380	7 461	4 166	1 933
Netherlands	11 603	11 084	9 606	7 721	7 505
Norway	13 589	13 710	15 490	17 103	17 199
Poland	168 167	155 283	201 509	215 185	219 719
Portugal	87 177	79 521	96 049	115 286	98 106
Romania	35 924	41 385	38 470	39 448	31 433
Slovakia	27 596	48 100	39 689	36 989	30 726
Slovenia	4 870	8 605	10 045	5 852	5 813
Spain	593 452	760 473	955 039	1 231 861	1 422 514
Sweden	6 765	5 960	7 019	9 387	4 029
Switzerland	7 541	7 229	8 347	7 977	6 219
Turkey	5 269	26 977	40 733	40 739	12 074
United Kingdom	33 196	25 764	31 601	23 139	17 098

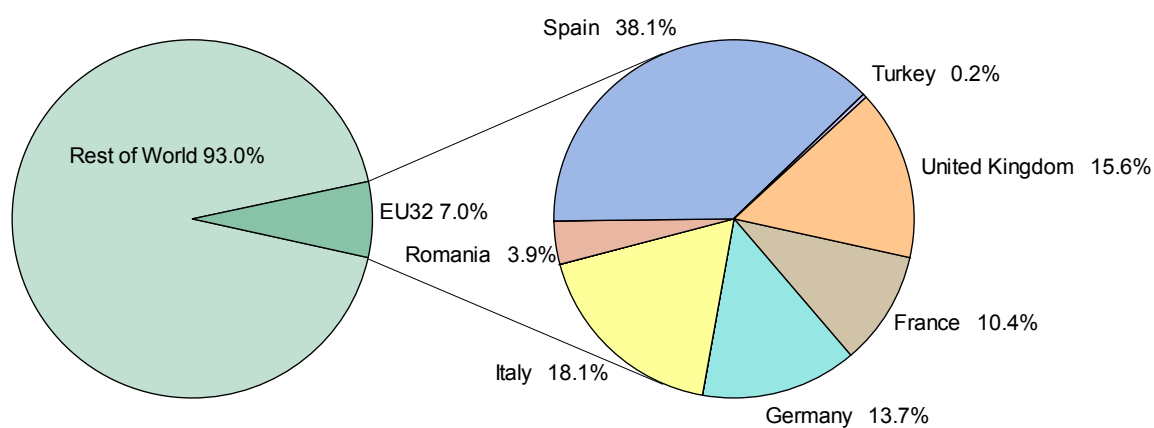
Feldspar - EU32 trade in 2006



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 55% of all fluorspar in 2006. The EU32 countries represent 7% of world fluorspar production. Spain was the largest EU32 producer.
- Fluorspar is more sensitive to price variability than most other industrial minerals. During 2006 the price was stable, trading between US\$230–US\$240/tonne CIF US Gulf Port.

EU32 Production of fluorspar 2006



Production of fluorspar

tonnes

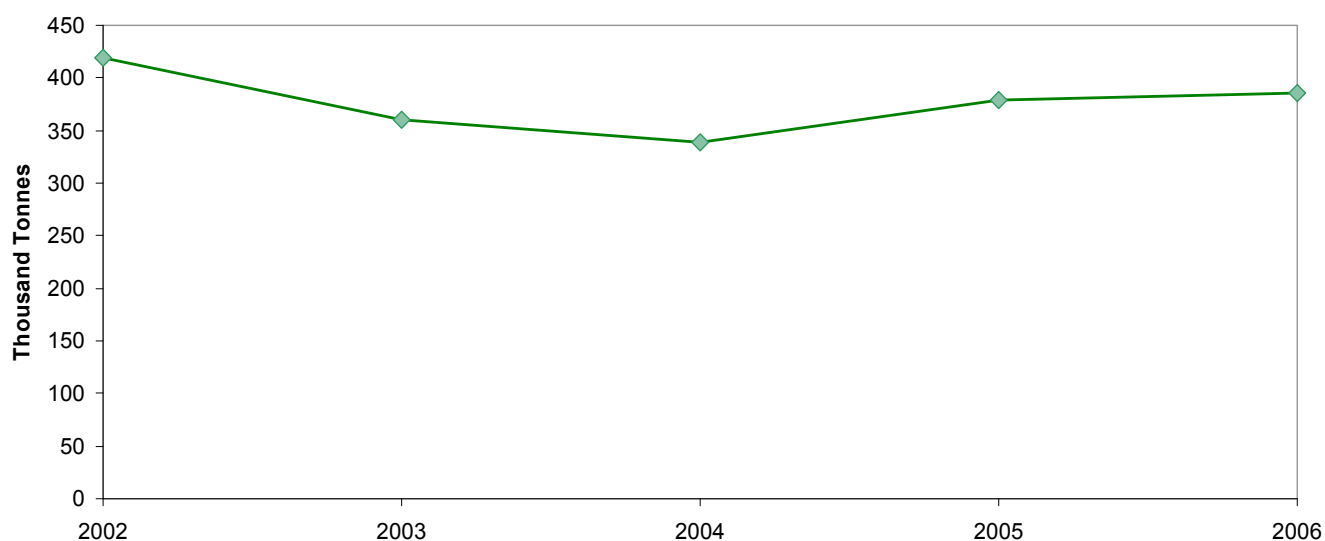
Country	2002	2003	2004	2005	2006
France	122 000	90 000	70 000	53 000	*40 000
Germany	34 429	33 289	33 203	35 364	53 009
Italy	53 260	26 387	24 339	70 326	...
Romania	*15 000	*15 000	*15 000	*15 000	*15 000
Spain	141 434	139 266	145 694	144 126	146 946
Turkey	718	718	880	800	*800
United Kingdom	*53 000	*56 000	50 080	60 980	*60 000
EU32 Total	420 000	361 000	339 000	380 000	386 000

Note(s):-

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

Fluorspar

EU32 Production of fluorspar 2002 - 06



Exports of fluorspar

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg	219	22 639	4 208	26 395	110 965
Czech Republic	8 131	23 471	10 073	8 677	9 954
France	47 439	18 519	12 002	6 821	28
Germany	22 274	17 105	17 594	24 061	35 207
Italy	31 142	28 222	20 607	28 699	16 710
Netherlands	12 752	19 186	3 019	37 113	1 587
Spain	1 106	1 745	2 221	4 434	10 518
Sweden	5 998	8 981	8 702	8 206	7 450
United Kingdom	636	519	4 593	5 803	3 016

Imports of fluorspar

tonnes

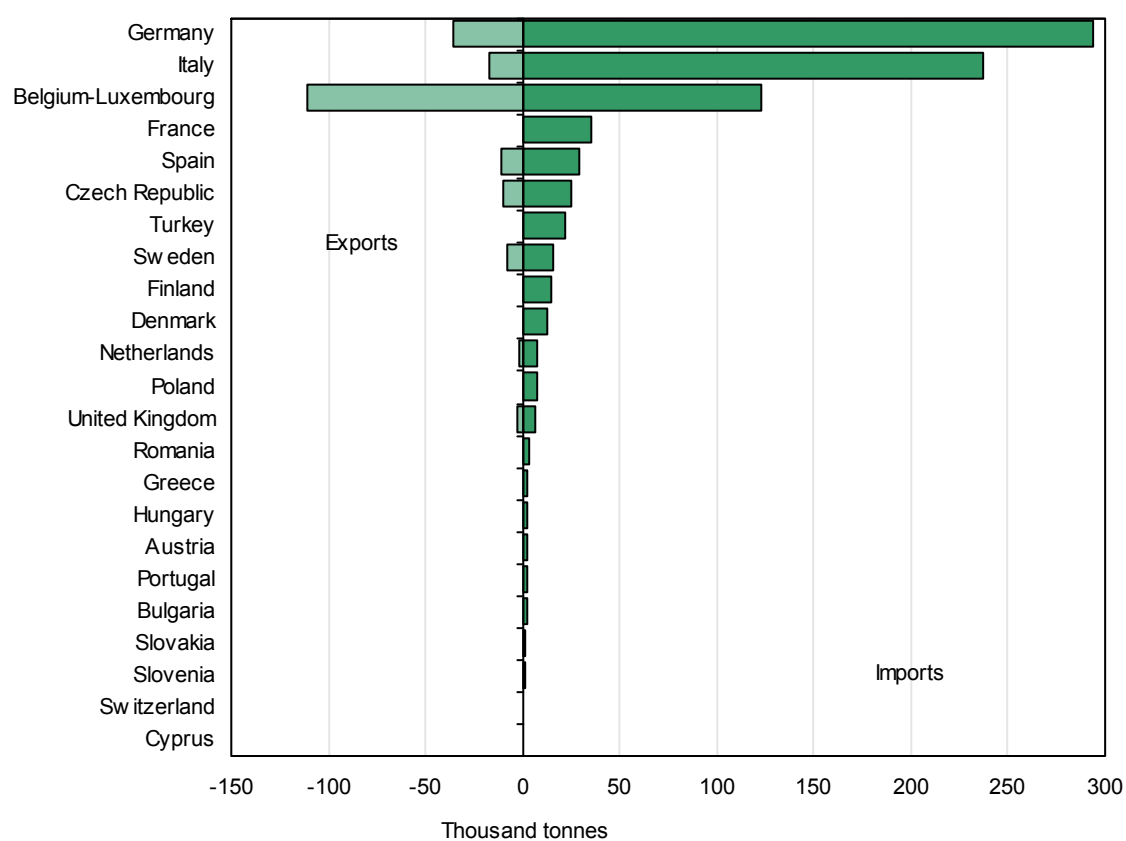
Country	2002	2003	2004	2005	2006
Austria	3 448	2 125	3 078	2 561	2 722
Belgium-Luxembourg	11 565	33 622	10 571	70 149	123 392
Bulgaria	1 296	2 143	1 882	1 210	2 321
Croatia	164	152	204	143	124
Cyprus	7 607	8 901	5	...	498
Czech Republic	18 182	16 628	28 408	24 009	24 637
Denmark	6 971	12 406	16 005	15 124	12 635
Finland	10 089	18 672	17 069	16 597	15 011
France	3 510	7 006	10 457	21 526	34 972
Germany	272 913	234 067	302 071	264 896	293 737
Greece	12 582	10 579	20 720	10 681	2 855
Hungary	3 626	3 907	4 366	...	2 801
Italy	162 510	226 780	212 975	249 756	237 597
Latvia	216	242	240	216	204
Macedonia	150	207	172	92	218
Netherlands	55 212	63 896	108 312	45 073	7 836
Norway	13 589	—	—	...	...
Poland	5 609	5 858	7 501	6 290	7 834
Portugal	1 196	574	158	1 633	2 530
Romania	6 653	5 547	4 117	6 285	3 915
Slovakia	1 797	1 965	1 574	1 615	1 543
Slovenia	1 148	1 113	1 178	1 031	1 184

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Spain	17 878	8 538	15 006	8 575	29 134
Sweden	16 978	19 117	14 640	15 790	16 176
Switzerland	916	413	991	714	704
Turkey	13 790	18 208	31 908	30 446	21 750
United Kingdom	26 690	21 360	25 092	4 051	6 620

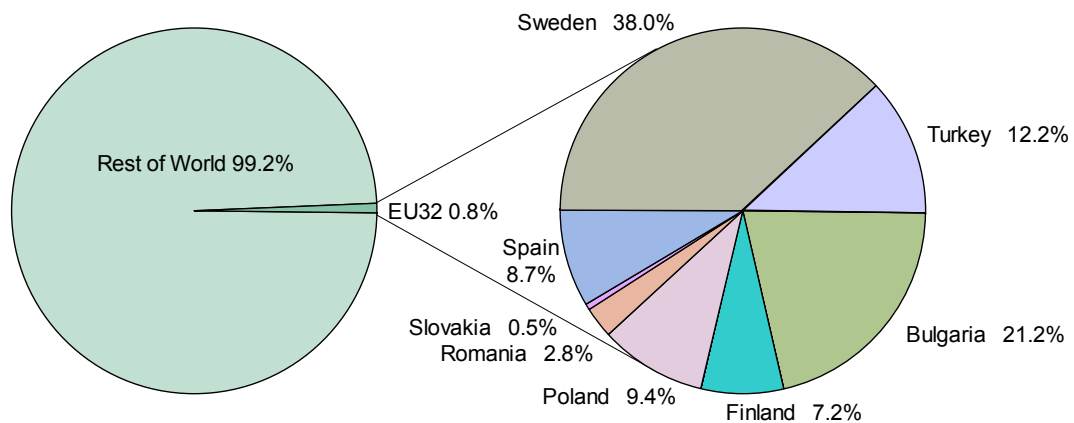
Fluorspar - EU32 trade in 2006



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, China, USA and Peru were the three largest gold producers in 2006, each producing more than 200 000 kg and their combined total being 52% of world production. In the EU32 Sweden (38%) and Bulgaria (21%) were the largest producers in 2006. The EU32 produced less than 1% of world output in 2006. 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). The gold price continued its upward trend during 2006, exceeding US\$600 per ounce in April, its highest level since 1980. Sustained investor and speculator activity pushed the gold price to a 26-year high of US\$725 per ounce in mid-May 2006. The price fell significantly during June and fluctuated during the remainder of the year to US\$632 per ounce at year-end. The average price during 2006 was US\$604.

EU32 Production of gold 2006



Mine production of gold

kilograms (metal content)

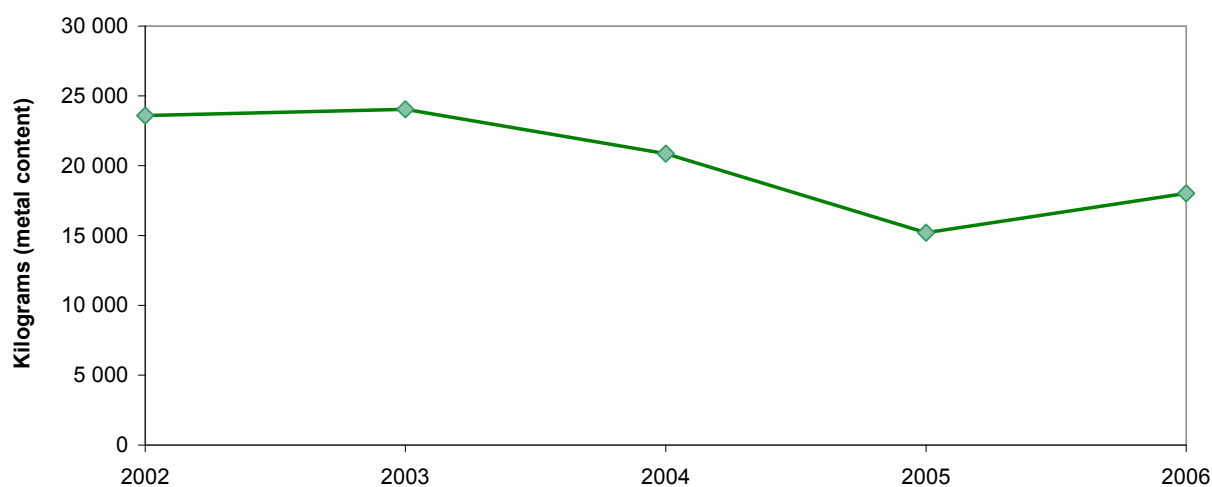
Country	2002	2003	2004	2005	2006
Bulgaria	2 612	2 270	2 431	3 868	3 818
Finland	1 300	*1 200	*1 300	*1 300	*1 300
France	1 724	1 470	—	—	—
Italy	631	*100	—	—	—
Poland (a)	296	356	527	713	*1 700
Romania	1 137	1 878	1 430	*500	*500
Slovakia	77	79	107	109	84
Spain	5 559	5 417	5 248	2 145	1 565
Sweden	5 757	5 900	6 564	6 564	6 848
Turkey	*4 500	5 370	3 260	—	2 205
EU32 Total	24 000	24 000	21 000	15 100	18 000

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

EU32 Production of gold 2002 - 06



Exports of gold

kilograms

Country	2002	2003	2004	2005	2006
Austria					
Metal	18 000	10 900	11 500	8 500	11 100
Waste & scrap	5 600	2 500	2 900	5 500	600
Belgium-Luxembourg					
Metal	2 000	500	1 200	100	300
Waste & scrap	...	...	...	458 400	438 000
Czech Republic					
Metal	5 468	5 113	12 247	1 100	4 100
Waste & scrap	2 453	1 349	31	600	700
Denmark					
Metal	4 979	894	...	...	...
Waste & scrap	807	343	1	120	3 531
Estonia					
Waste & scrap	9 895	8 812	...	3	...
Finland					
Waste & scrap	762	929	368	778	886
France					
Metal	29 700	34 600	31 500	18 100	30 445
Waste & scrap	40 800	33 700	70 500	29 600	29 600
Germany					
Metal	45 400	36 400	36 500	47 600	65 200
Waste & scrap	1 734 400	651 000	170 065	30 600	7 500
Greece					
Metal	509	4 714	15	3	311
Hungary					
Metal	928	...	826	200	470
Irish Republic					
Metal	£389 000	£784 000	£1 076 000	£942 000	£1 400 000
Waste & scrap	£1 623 000	£1 520 000	£1 672 000	£1 429 000	£1 313 000
Italy					
Metal	32 091	36 047	44 180	60 480	55 847
Lithuania					
Waste & scrap	20	100	...	...	0
Netherlands					
Metal	9 601	8 094	24 557	11 603	19 634
Waste & scrap	108 000	276 600	62 212	72 427	98 813
Norway					
Metal	2 554	2 527	2 293	2 415	2 337
Waste & scrap	1 102	174	127	137	182
Poland					
Metal	1 210	249	...	100	1 100
Waste & scrap	3 239	8 477	4 074	1 100	1 600

Gold

Exports continued

kilograms

Country	2002	2003	2004	2005	2006
Portugal					
Waste & scrap	...	...	192 759	4 800	400
Slovakia					
Metal	255	325	274	268	569
Waste & scrap	1 600	1 012	357	986	1 000
Slovenia					
Metal	1 287	681	254	101	100
Waste & scrap	—	1 012	1 649	—	3 700
Spain					
Metal	3 867	4 793	6 490	3 520	3 679
Waste & scrap	1 126	784	2 908	38	2 636
Sweden					
Metal	12 000	10 000	19 000	18 000	19 000
Waste & scrap	24 000	...	20 000	1 000	32 000
Switzerland					
Metal	922 468	885 907	1 125 319	1 340 948	965 959
Waste & scrap	16 868	14 039	55 166	2 823	2 802
Turkey					
Metal	11 263	11 455	9 722	29 624	13 581
United Kingdom					
Metal	198 805	82 892	407 467	638 262	166 080
Waste & scrap	548 843	1 074 829	471 657	541 399	313 712

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	2002	2003	2004	2005	2006
Austria					
Metal	17 300	26 500	17 300	22 100	9 300
Waste & scrap	1 200	200	200	1 800	300
Belgium-Luxembourg					
Metal	3 200	9 100	12 400	14 400	9 600
Waste & scrap	(a) *1 775 000	(a) *889 000	(a) *117 000	(a) *37 000	147 100
Croatia					
Metal	1 316	5 034	1 193	1 083	992
Cyprus					
Metal	938	4 561	313	359	340
Czech Republic					
Metal	1 288	1 596	1 957	769	1 570
Waste & scrap	175	338	1 911	13 000	15 000
Denmark					
Metal	796	...	...	2 075	1 563
Estonia					
Metal	58	2 570	74	234	1 200
Finland					
Metal	1 132	1 230	1 332	949	931
Waste & scrap	46 928	90 780	67 582	22 981	4
France					
Metal	35 359	31 098	24 425	28 786	29 583
Waste & scrap	4 600	12 500	...	5 200	1 500
Germany					
Metal	44 400	40 100	49 800	56 500	54 600
Waste & scrap	2 021 200	1 153 500	1 375 800	1 923 600	1 821 100
Greece					
Metal	1 497	8 276	37 484	56 572	60 999
Waste & scrap	1 126	79 288	—	...	126
Hungary					
Metal	127	41	1 514	1 380	235

Imports continued

kilograms

Country	2002	2003	2004	2005	2006
Irish Republic					
Metal	£6 057 000	£9 565 000	£7 480 000	£7 227 000	£7 213 000
Waste & scrap	120	2 322	4 880	2 567	904
Italy					
Metal	358 654	281 157	274 841	250 938	204 012
Waste & scrap	7 584	1 685	3 612	904	810
Lithuania					
Waste & scrap	...	...	(d) *16 000	114 600	12 500
Malta					
Metal	3 835	3 927	3 607	14 001	7 900
Netherlands					
Metal	11 825	10 318	16 275	24 679	22 744
Waste & scrap	561	1 044	1	1	93
Norway					
Metal	2 927	1 599	1 253	2 099	1 739
Waste & scrap	1 613	776	987	1 049	1 304
Poland					
Metal	774	588	2 301	100	400
Portugal					
Metal	3 303	1 893	655	6 074	5 234
Slovakia					
Metal	654	421	417	123	11 200
Slovenia					
Metal	2 696	612	382	374	100
Waste & scrap	...	256	363	4 219	1 600
Spain					
Metal	26 690	27 662	29 702	20 594	15 072
Waste & scrap	818	411	5 018	139	233
Sweden					
Metal	£7 655 000	£8 382 000	£8 498 000	£8 625 000	£10 124 000
Waste & scrap	£1 126 000	—	...	£180 000	£7 000
Switzerland					
Metal	1 217 189	1 218 361	1 048 386	1 655 691	1 498 693
Waste & scrap	48 626	32 454	52 053	72 764	104 957
Turkey					
Metal	142 013	225 021	262 519	403 415	157 792
United Kingdom					
Metal	1 280 970	1 414 697	1 053 100	460 239	781 840
Waste & scrap	122 639	231 365	274 919	66 198	7 925

Note(s) :-

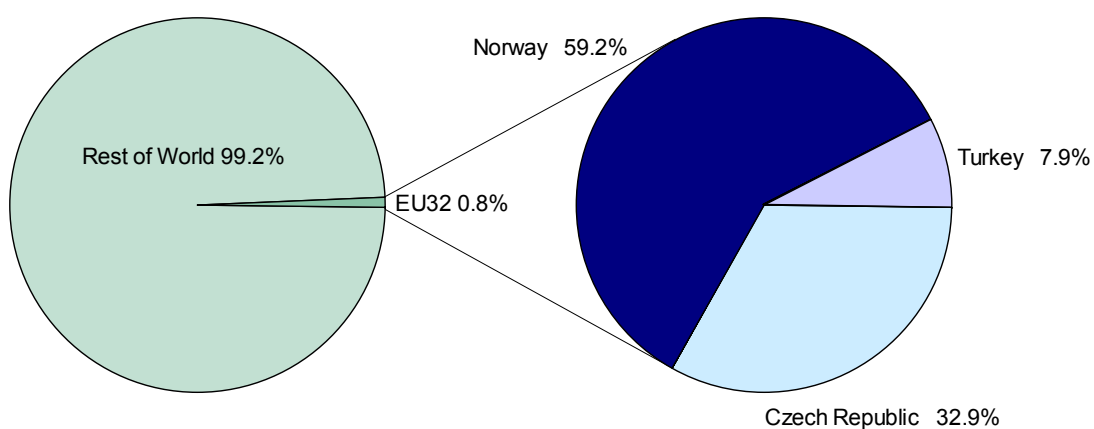
- (1) In this table the term 'metal' includes both unwrought and partly worked gold but excludes gold coin
- (2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (3)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

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

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.
- There is minor EU32 production. This has declined steadily since 1997 and production in Germany and Romania ceased in 2006. China was the largest world producer in 2006 (87%) and of the 1730 thousand tonnes extracted, 530 thousand tonnes was flake graphite.
- Graphite is traded in several different forms. During 2006 graphite traded between US\$410 and US\$810/tonne, depending largely on flake size.

EU32 Production of graphite 2006



Production of graphite

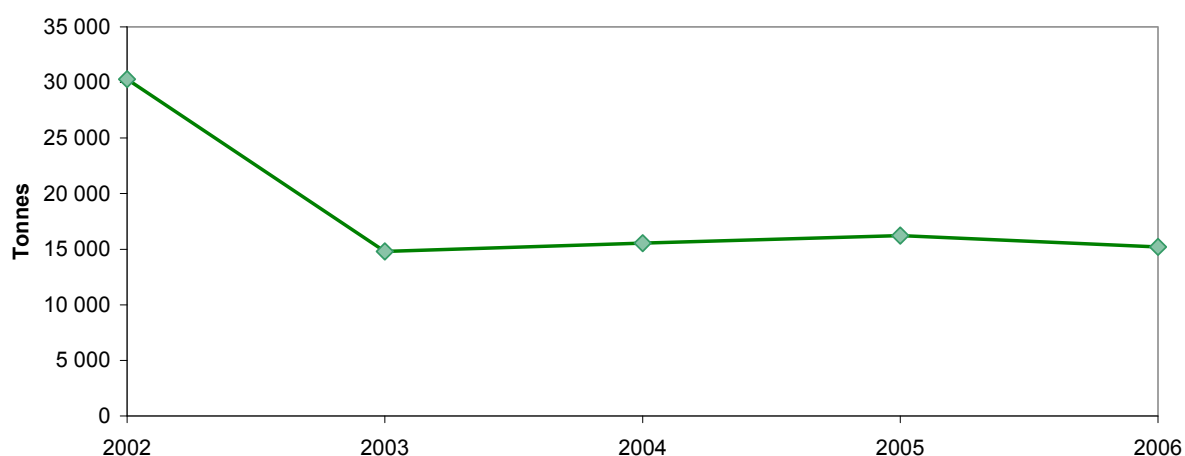
Country	2002	2003	2004	2005	2006
Czech Republic	16 000	9 000	5 000	3 000	5 000
Germany	3 312	2 840	3 155	2 638	—
Norway	8 600	1 000	6 000	9 000	9 000
Romania	1 001	1 014	395	486	—
Turkey	1 393	942	*1 000	*1 100	*1 200
EU32 Total	30 000	15 000	16 000	16 000	15 000

Note(s):-

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

(a) Crude

EU32 Production of graphite 2002 - 06



Exports of graphite

tonnes

Country	2002	2003	2004	2005	2006
Austria	3 384	4 574	5 094	7 082	7 416
Belgium-Luxembourg	5 653	9 097	581	834	460
Czech Republic	3 487	4 058	3 924	3 489	3 518
France	...	167	122	225	85
Germany	12 103	11 746	14 783	14 241	20 777
Italy	313	222	625	274	442
Netherlands	2 851	5 209	5 987	3 240	2 991
Norway	8 129	—	—	—	—
Spain	8 521	9 288	27 634	11 972	6 356
Sweden	600	302	260	195	230
Switzerland	516	745	335	326	225
United Kingdom	2 816	4 158	4 348	2 685	2 979

Note(s):-

(1) This table excludes synthetic graphite

Imports of graphite

tonnes

Country	2002	2003	2004	2005	2006
Austria	6 004	4 971	7 229	13 655	10 704
Belgium-Luxembourg	10 638	12 414	3 301	3 040	1 836
Bulgaria	210	492	420	319	433
Czech Republic	1 476	2 765	3 663	4 787	3 485
Denmark	355	567	478	288	268
Finland	281	197	168	84	63
France	13 016	11 149	15 083	20 449	19 430
Germany	42 706	41 161	53 602	55 843	45 884
Greece	75	77	127	91	83
Hungary	528	517	234	191	192
Irish Republic	541	248	288	177	23
Italy	11 302	10 845	10 699	11 102	11 548
Netherlands	8 232	10 208	18 139	15 205	12 339
Norway	615	502	548	423	296
Poland	2 700	3 150	3 089	3 028	3 658
Portugal	1 436	1 129	1 317	1 722	1 954
Romania	...	387	315	548	488
Slovakia	2 633	2 209	1 667	1 031	1 382
Slovenia	115	155	155	112	161
Spain	8 119	7 363	9 402	8 334	10 143

Graphite

Imports continued

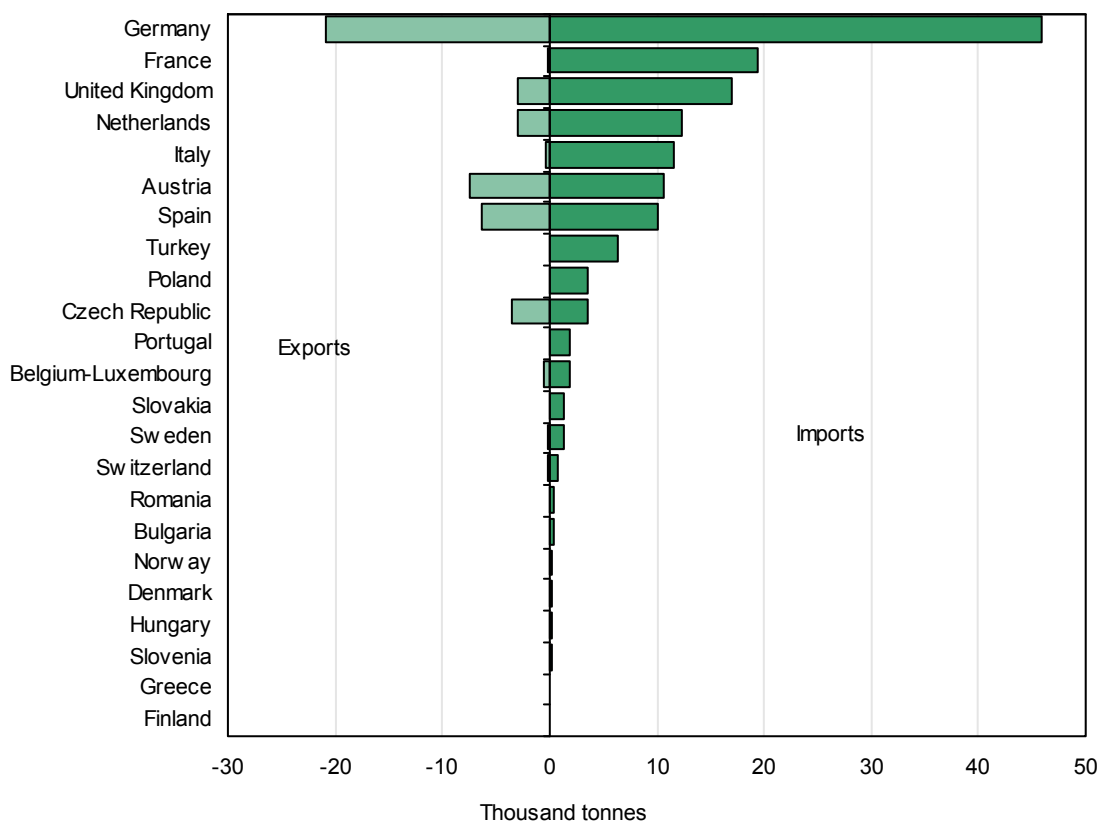
tonnes

Country	2002	2003	2004	2005	2006
Sweden	1 022	1 428	1 473	1 539	1 252
Switzerland	918	863	395	652	722
Turkey	7 010	7 429	10 212	11 956	6 300
United Kingdom	22 435	19 270	19 075	17 766	16 978

Note(s) :-

(1) This table excludes synthetic graphite

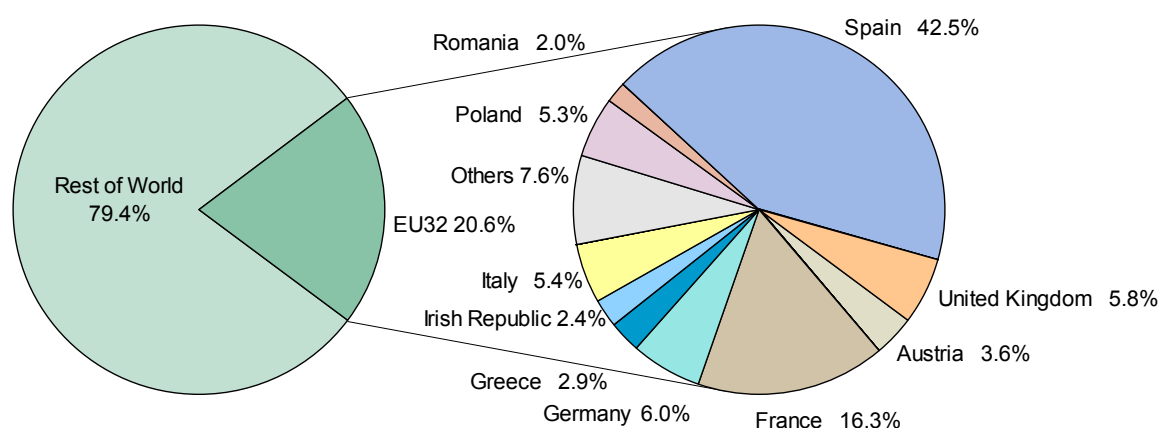
Graphite - EU32 trade in 2006



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 EU32 produced 20% of world natural gypsum in 2006. The largest EU32 producer is Spain which accounted for 43% of EU32 production. China was the largest gypsum producer in the world in 2006 (25%).
- 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 US\$9.08/tonne in 2006.

EU32 Production of gypsum 2006



Production of gypsum

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Gypsum	847 117	889 727	920 809	911 162	936 072
Anhydrite	122 085	113 823	117 318	106 032	135 380
Bulgaria	156 400	165 500	175 900	187 700	215 800
Croatia	145 000	166 340	193 263	196 133	170 351
Cyprus	295 000	300 000	255 000	215 500	270 000
Czech Republic	108 000	104 000	71 000	25 000	16 000
France	*4 900 000	*5 600 000	*5 700 000	4 902 498	*4 800 000
Germany (a)	1 761 000	1 748 000	1 579 000	1 644 000	1 771 000
Greece	890 148	731 785	856 606	865 216	*860 000
Hungary (a)	108 000	62 000	55 000	19 000	18 000
Irish Republic	*500 000	*600 000	*650 000	*700 000	*700 000
Italy	1 531 477	1 783 903	1 615 287	*1 600 000	*1 600 000
Latvia (a)	217 074	159 133	225 742	*220 000	*230 000
Macedonia	129 266	150 618	165 416	190 232	267 760
Poland					
Gypsum	866 674	1 030 693	970 786	1 048 000	(a) 1 361 509
Anhydrite	217 000	197 000	196 000	195 000	...
Portugal	579 143	419 799	461 212	389 180	366 599
Romania	421 235	409 516	490 372	532 867	598 940
Slovakia (a)	121 680	93 800	127 100	107 500	126 200
Spain	11 218 410	11 366 375	12 533 972	12 500 000	*12 500 000
Switzerland	*300 000	*300 000	*300 000	*300 000	*300 000
Turkey	264 038	196 668	250 099	*250 000	*250 000
United Kingdom	*1 700 000	*1 700 000	1 686 000	*1 700 000	*1 700 000
EU32 Total	27 400 000	28 300 000	29 600 000	28 800 000	29 200 000

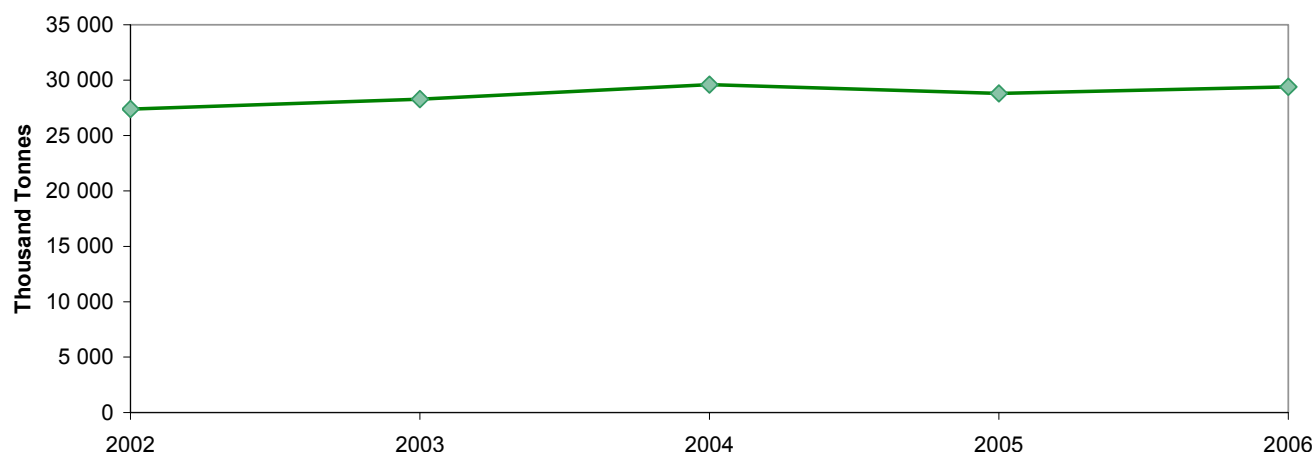
Note(s):-

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

(a) Including anhydrite

Gypsum

EU22 Production of gypsum 2002 - 06



Exports of gypsum

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Crude	46 524	21 562	22 732	21 433	30 002
Calcined	82 493	97 840	100 444	94 207	99 013
Belgium-Luxembourg					
Crude	59 688	64 538	91 110	46 691	62 303
Calcined	3 628	2 556	175 496	2 709	4 707
Bulgaria					
Crude & calcined	2 406	1 868	2 231	2 347	2 439
Croatia					
Crude & calcined	28 318	# 4 775	5 796	4 890	6 349
Cyprus					
Crude & calcined	169 213	184 389	215 297	73 741	152 621
Czech Republic					
Crude	87 247	92 133	90 750	33 307	46 837
Calcined	3 967	4 718	5 563	4 272	6 249
Denmark					
Crude	110 317	83 754	81 318	111 720	165 656
Calcined	155 843	65 842	13 837	25 474	356 443
Finland					
Crude & calcined	5 026	981	440	451	267
France					
Crude	427 138	335 780	324 894	250 845	321 789
Calcined	286 568	297 326	311 437	350 955	349 703
Germany					
Crude	176 734	142 263	197 613	259 631	391 494
Calcined	695 565	1 070 873	1 033 057	991 946	1 471 660
Greece					
Crude	44 953	112 510	106 082	88 187	116 442
Hungary					
Crude & calcined	408	1 180	1 305	2 648	6 408
Irish Republic					
Crude	817	873	919	1 022	1 054
Calcined	22 181	33 382	40 636	42 212	40 027
Italy					
Crude	24 560	1 032	8 040	12 641	141
Calcined	54 393	38 778	42 223	41 404	69 272
Latvia					
Crude	55 225	58 186	24 782	48 896	109 404
Macedonia					
Crude & calcined	20 234	22 609	15 408	9 779	9 488
Netherlands					
Crude	24 263	32 752	37 920	53 351	32 425
Calcined	26 463	7 905	11 088	61 508	70 005
Norway					
Crude	19 241	27 287	30 825	49 443	40 784

Gypsum

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Poland					
Crude & calcined	21 259	24 706	29 467	33 277	40 832
Portugal					
Calcined	852	1 351	1 424	1 332	4 280
Romania	6 473	10 539	14 277	15 089	14 283
Spain					
Crude	2 818 090	2 732 211	2 820 367	3 228 806	3 568 327
Calcined	517 466	473 180	470 437	391 274	306 791
Sweden					
Crude & calcined	6 350	5 993	7 343	7 832	9 954
Switzerland					
Crude	1 709	44	158	7	14
Calcined	1 667	1 680	1 002	1 088	1 144
Turkey					
Crude	320	1 282	7 859	4 346	26 683
Calcined	210 898	308 189	434 910	477 710	481 313
United Kingdom					
Crude	14 460	2 601	3 903	2 299	2 679
Calcined	44 827	39 515	49 945	54 356	63 533

Note(s):-

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

Imports of gypsum

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Crude	17 429	23 705	16 985	15 280	11 057
Calcined	48 808	59 897	70 261	66 118	61 713
Belgium-Luxembourg					
Crude	719 403	524 938	713 502	768 702	811 923
Calcined	322 930	290 348	366 504	460 067	449 433
Bulgaria					
Crude	47 984	38 119	49 426	18 684	10 088
Calcined	17 476	22 615	35 558	49 163	56 869
Croatia					
Crude	28 326	35 732	14 974	41 665	25 095
Calcined	29 147	33 419	37 499	33 316	37 052
Cyprus					
Crude & calcined	523	468	51 240	3 501	9 849
Czech Republic					
Crude	14 790	20 266	29 328	19 253	38 983
Calcined	23 899	32 810	43 894	37 637	43 282
Denmark					
Crude	223 666	282 006	283 604	317 736	330 476
Calcined	34 509	36 882	38 650	45 691	52 788
Estonia					
Crude & calcined	20 355	23 314	80 834	20 957	40 876
Finland					
Crude	286 347	231 517	278 645	341 680	310 245
Calcined	7 682	7 066	7 010	7 517	9 958
France					
Crude	168 598	266 857	311 411	361 820	588 367
Calcined	48 920	45 214	85 845	60 358	68 652
Germany					
Crude	186 338	100 269	102 596	66 590	79 798
Calcined	59 707	91 143	116 628	73 647	85 665
Greece					
Crude	350	362	826	801	88
Calcined	1 501	1 361	13 614	5 270	14 233
Hungary					
Crude & calcined	53 147	59 741	64 726	60 336	65 546

Gypsum

Imports continued

tonnes

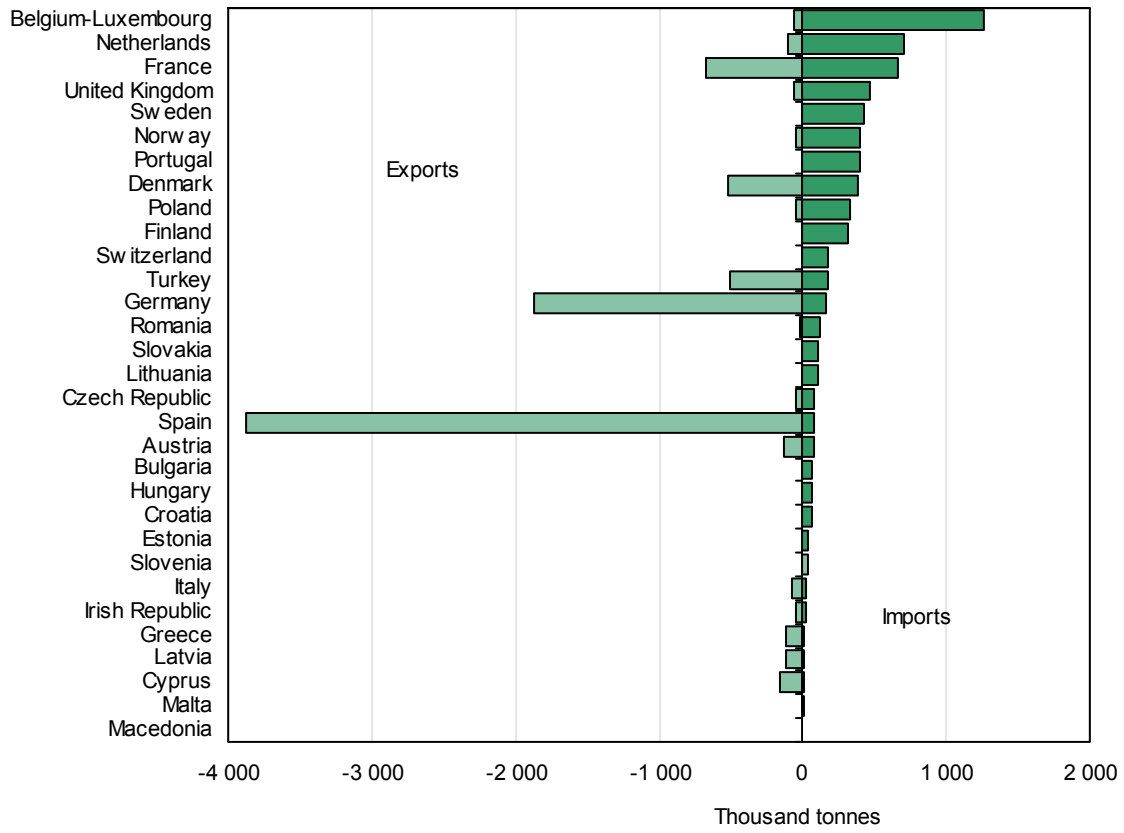
Country	2002	2003	2004	2005	2006
Irish Republic					
Crude	10 931	373	536	1 056	2 064
Calcined	914	2 228	6 015	20 024	22 500
Italy					
Crude	2 391	1 947	5 024	6 134	5 285
Calcined	22 706	17 681	22 515	22 076	20 028
Latvia					
Crude & calcined	3 138	3 232	2 931	3 563	9 960
Lithuania					
Crude	36 355	1 495	39 653	58 859	71 649
Calcined	11 630	45 996	16 245	20 990	36 588
Macedonia					
Crude & calcined	784	495	819	1 165	1 106
Malta					
Crude & calcined	1 936	3 180	5 310	5 980	7 529
Netherlands					
Crude	208 013	132 882	176 349	155 519	227 950
Calcined	381 920	387 829	492 478	686 085	483 249
Norway					
Crude	59 945	49 398	109 069	119 962	117 892
Calcined	315 517	295 160	259 001	274 006	287 568
Poland					
Crude	46 123	101 589	163 227	150 622	175 567
Calcined	124 727	123 919	100 886	91 356	150 619
Portugal					
Crude	33 696	60 120	82 603	79 370	96 070
Calcined	371 705	338 228	340 665	361 284	307 953
Romania	102 708	48 336	37 805	69 027	118 652
Slovakia					
Crude & calcined	125 948	121 461	110 803	116 252	110 237
Slovenia					
Crude	68 242	48 336	39 062	29 388	31 312
Calcined	6 421	11 349	7 429	7 429	8 167
Spain					
Crude	51 797	65 152	43 004	47 585	59 656
Calcined	38 659	142 719	14 462	32 078	20 440
Sweden					
Crude	211 432	269 711	269 060	206 972	263 582
Calcined	82 831	103 481	160 784	97 746	166 829
Switzerland					
Crude	64 517	50 760	64 677	76 460	87 964
Calcined	72 876	75 394	81 971	88 511	92 787
Turkey	90 335	160 214	170 958	183 553	174 961
United Kingdom					
Crude (a)	646 889	903 068	227 068	761 117	461 783

Note(s) :-

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

(a) Including calcined

Gypsum - EU32 trade in 2006



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 EU32 produces no iodine.
- Crude iodine crystals (50 kg drums, 99.5% min) traded in the range of US\$25–26.50/kg during 2006.

Exports of iodine

kilograms

Country	2002	2003	2004	2005	2006
Austria	1 000	100	100	...	600
Belgium-Luxembourg	2 351 000	4 904 400	3 646 100	3 460 200	3 272 600
Czech Republic	267	330	537	1 000	800
Denmark	—	199	6 921	3 058	6 301
France	107 000	30 900	30 500	40 900	51 300
Germany	2 637 000	583 100	640 400	465 800	340 600
Irish Republic	2 000	9 600	—	1 462	—
Italy	3 000	2 065	3 080	14 499	7 067
Latvia	...	...	...	...	7 000
Lithuania	1 832	827	7 502	33	4 800
Netherlands	147 664	527 769	58 633	59 228	76 080
Norway	3 000	1 509	—	—	17
Spain	115 000	27 811	31 156	21 089	7 356
Sweden	2 000	4 000	—	4 000	0
Switzerland	360	1 116	5 228	4 179	1 342
Turkey	2 570	209	117	1 250	125
United Kingdom	207 341	169 145	107 007	197 086	314 659

Imports of iodine

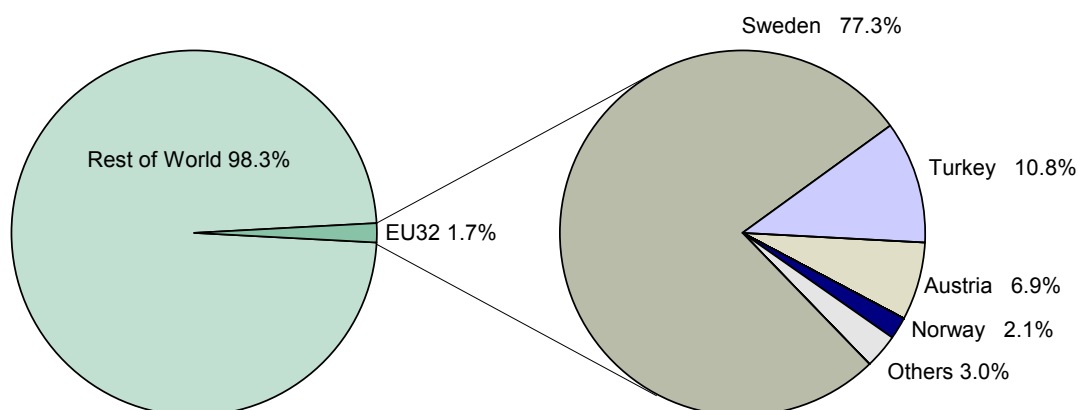
kilograms

Country	2002	2003	2004	2005	2006
Austria	81 000	85 500	124 100	92 700	173 600
Belgium-Luxembourg	2 357 000	4 817 700	3 419 800	3 332 800	3 513 200
Bulgaria	4 636	11 250	6 755	5 080	3 990
Cyprus	29 894	8 685	226	67	125
Czech Republic	18 819	29 637	31 428	28 400	31 600
Denmark	19 000	21 037	9 080	13 249	16 398
Finland	9 000	4 879	27 020	6 209	2 066
France	1 553 000	1 563 800	1 317 700	1 685 200	1 929 100
Germany	1 208 000	1 318 400	1 422 800	1 302 300	1 205 800
Greece	1 000	2 593	1 673	2 247	2 153
Hungary	...	...	...	6 700	1 800
Irish Republic	5 000	8 712	18 215	11 921	9 705
Italy	1 218 000	1 167 573	1 127 906	854 831	1 033 737
Lithuania	1 376	1 050	1 796	6 929	500
Netherlands	1 269 000	632 000	357 225	21 015	158 145
Norway	684 000	1 105 811	1 294 934	1 748 110	1 919 848
Poland	13 312	23 875	18 687	10 200	18 700
Portugal	25 000	28 807	14 717	12 000	1 400
Romania	...	423	833	1 054	1 107
Spain	796 000	784 718	710 814	781 787	790 641
Sweden	5 000	5 000	1 000	2 000	2 000
Switzerland	14 000	27 226	7 428	7 949	11 133
Turkey	30 450	15 405	31 736	18 547	1 602
United Kingdom	744 234	825 813	802 782	1 092 633	1 019 543

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 (32%). World exports were dominated by Brazil and Australia. EU32 iron ore production was only 2% of the world total in 2006. Sweden is the largest EU32 producer (77%) and with Norway the only net exporter.
- Iron ore demand closely follows demand for steel which remained very strong during 2006 mainly driven by rapid growth in China. Modest increases in iron ore prices in 2006 (following a 70% increase in 2005) were largely the result of imbalances in supply and demand. International iron ore prices are generally determined through annual negotiations between producers and consumers. Itabira fines traded at USUS\$0.62/dry metric tonne unit and USUS\$0.65/dry metric tonne unit for Carajás ore (European annual iron ore price). Australian iron ore (Mt Newman high grade fines) was priced at USUS\$0.73/dry tonne (Japanese annual iron ore price).

EU32 Production of iron ore 2006



Production of iron ore

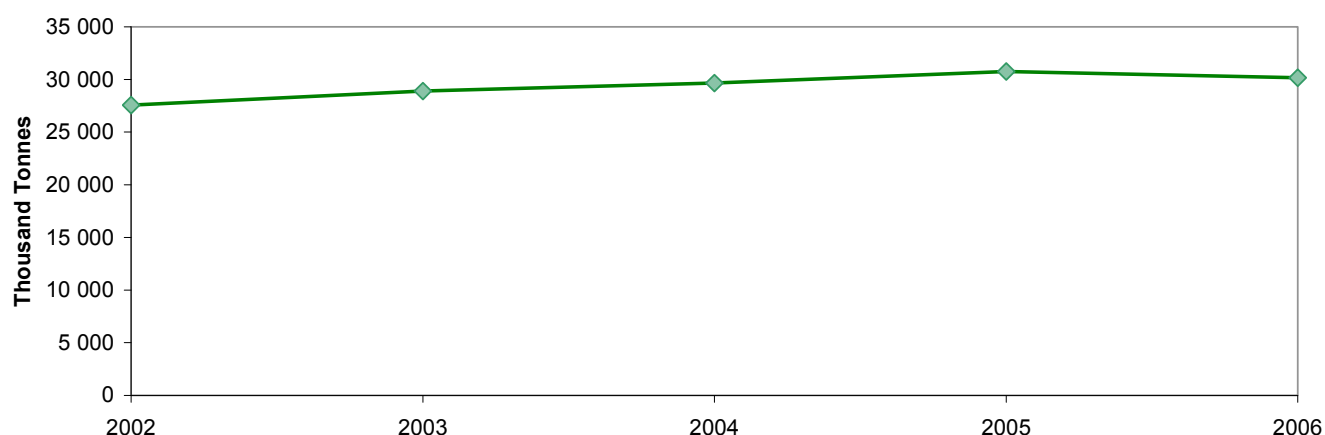
tonnes

Country	2002	2003	2004	2005	2006
Austria (c)	1 941 759	2 124 787	1 889 419	2 047 950	2 091 995
Bulgaria	373 000	466 100	82 700	—	—
France	21 367	—	—	—	—
Germany (a) (b)	419 371	429 170	412 238	362 106	411 973
Norway	490 000	410 000	586 100	713 000	620 000
Romania	248 000	244 000	231 417	220 788	...
Slovakia	326 300	287 000	305 072	258 500	...
Spain	24 489	571	10 879	—	—
Sweden	20 281 000	21 498 000	22 272 000	23 255 000	23 302 000
Turkey	3 432 775	3 429 070	3 856 536	3 889 934	3 251 968
United Kingdom	464	*500	*500	354	341
EU32 Total	27 559 000	28 889 000	29 647 000	30 748 000	30 158 000

Note(s):-

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

EU32 Production of iron ore 2002 - 06



Exports of iron ore

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg	70 035	43 752	23 450	81 560	43 555
Finland					
Burnt pyrites	...	...	52	59 433	67 503
France	16 649	43 473	38 413	106 849	76 097
Germany					
Iron ore	15 521	9 376	8 756	7 023	18 294
Burnt pyrites	6 907	6 491	3 241	7 257	6 623
Italy					
Burnt pyrites	46 294	30 848	11 086	9 410	4 407
Netherlands	42 244	20 881	1 384 740	1 977 963	2 491 191
Norway					
Iron ore	620 478	530 851	648 583	721 975	720 582
Burnt pyrites	62 214	62 315	117 389	14 730	2 658
Slovakia	127 174	76 957	135 398	8 581	141 448
Spain					
Burnt pyrites	189 404	105 203	171 292	230 985	90 432
Sweden	14 233 450	15 559 741	17 336 835	17 597 351	18 409 475

Imports of iron ore

tonnes

Country	2002	2003	2004	2005	2006
Austria	...	5 691 360	5 783 359	7 423 015	8 411 888
Belgium-Luxembourg	12 204 732	11 577 845	10 655 707	9 384 885	11 387 165
Bulgaria					
Iron ore	1 302 809	1 850 563	1 570 605	1 050 925	1 305 110
Burnt pyrites	1 307	128 640	357 898	437 710	450 004
Croatia					
Burnt pyrites	...	14 098	10 708	12 305	11 349
Czech Republic	6 811 707	8 221 566	7 636 968	6 576 885	7 984 718
Denmark					
Burnt pyrites	60 659	52 806	81 071	85 975	68 306
Finland					
Iron ore	3 791 710	4 212 158	3 921 507	4 215 633	3 481 019
Burnt pyrites	13 132	26 163	63	—	—
France					
Iron ore	19 069 088	18 890 174	20 777 700	19 506 894	19 463 057
Burnt pyrites	0	3 348	65	160	3 451

Imports continued

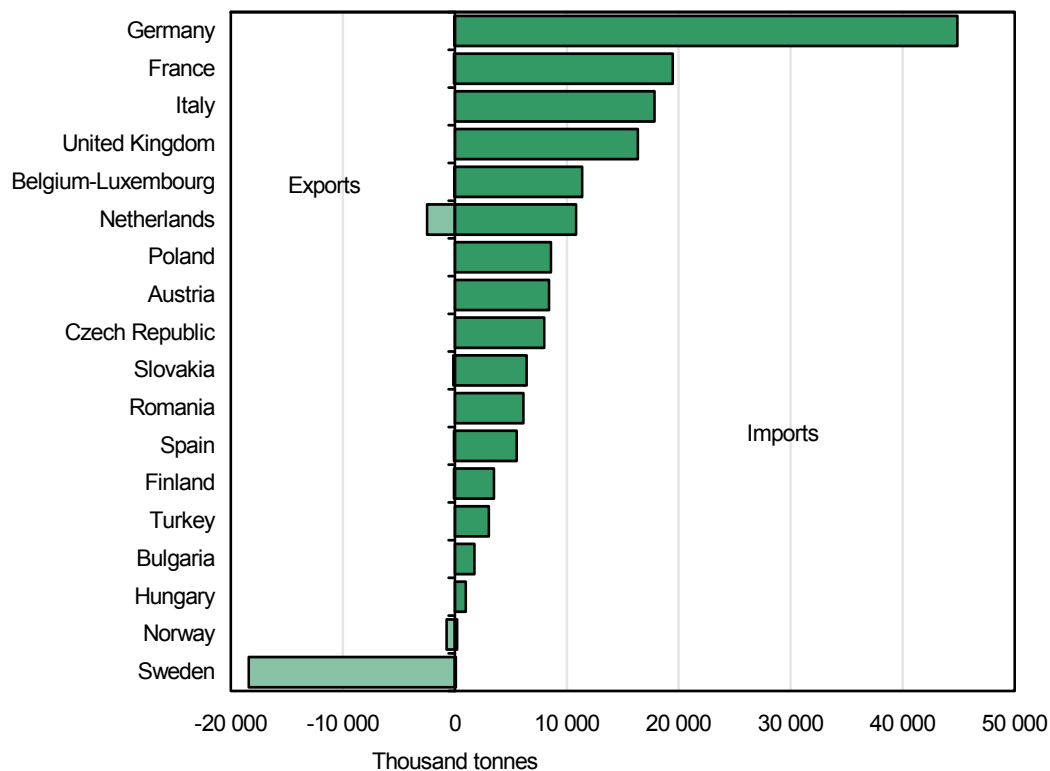
tonnes

Country	2002	2003	2004	2005	2006
Germany					
Iron ore	44 297 518	33 876 167	43 317 039	39 061 160	44 850 286
Burnt pyrites	44 838	56 249	37 194	20 496	36 299
Greece					
Burnt pyrites	58 666	132	4 601	180	5 701
Hungary	1 718 394	1 864 033	1 063 931	1 210 543	987 544
Italy					
Iron ore	9 283 941	8 842 872	10 578 006	11 244 293	17 844 641
Burnt pyrites	5 614 311	6 445 903	6 136 765	6 307 527	...
Netherlands					
Iron ore	7 369 802	8 740 391	12 622 628	12 285 177	10 833 565
Burnt pyrites	23 596	22 545	26 717	—	...
Norway	206 650	178 025	495 047	526 713	216 372
Poland					
Iron ore	5 674 667	6 817 467	8 627 650	5 785 200	8 571 004
Burnt pyrites	1 273 170	1 764 657	2 303 655	1 003 456	...
Romania	6 198 085	6 977 977	6 609 026	6 601 393	6 117 270
Slovakia	4 990 546	5 704 522	2 745 925	5 510 508	6 406 019
Spain	6 158 325	5 765 648	6 118 975	6 248 366	5 511 245
Sweden					
Iron ore	115 528	110 920	102 101	100 072	82 203
Burnt pyrites	41 970	29 658	36 351	6 095	...
Turkey					
Iron ore	2 879 135	2 144 607	2 070 545	2 095 737	3 019 240
Burnt pyrites	2 499 655	3 048 337	2 503 319	2 525 709	4 706
United Kingdom					
Iron ore	13 316 026	16 121 350	15 298 713	16 204 615	16 370 705
Burnt pyrites	...	19 230	2 436	1 911	1 282

Note(s) :-

(a) Including burnt pyrites

Iron ore - EU32 trade in 2006



Production of pig iron

tonnes

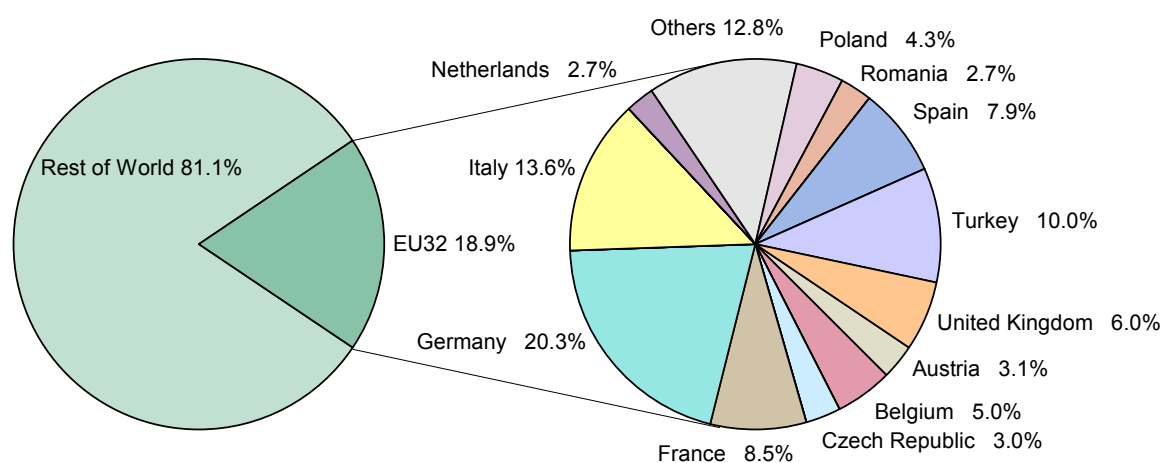
Country	2002	2003	2004	2005	2006
Austria	4 607 000	4 676 742	4 846 740	5 446 000	5 548 000
Belgium	7 988 396	7 812 593	8 224 000	7 254 000	7 515 000
Bulgaria	1 072 000	1 386 000	1 200 000	1 100 000	1 100 000
Czech Republic	4 839 880	5 207 000	5 385 000	4 627 000	5 192 000
Finland	2 828 275	3 092 051	3 036 566	3 056 165	3 157 894
France	13 093 042	12 615 893	13 087 705	12 595 584	12 873 900
Germany	29 967 000	30 071 000	30 628 000	29 294 000	30 360 000
Hungary	1 334 000	1 332 000	1 350 000	1 329 000	1 336 000
Italy	9 746 000	10 123 000	10 566 000	11 392 000	11 479 000
Netherlands	5 367 000	5 846 000	6 011 000	6 031 000	5 417 000
Norway	108 000	*110 000	*100 000	*100 000	*100 000
Poland	5 296 410	5 585 094	6 292 341	4 476 831	5 332 632
Romania	3 979 346	4 101 409	4 243 956	4 097 998	3 941 035
Slovakia	3 533 150	3 892 000	3 765 000	3 681 000	4 145 000
Spain	3 973 000	3 645 000	4 036 000	4 160 000	3 396 000
Sweden	3 815 000	3 816 000	3 992 000	3 844 000	3 701 000
Switzerland	*80 000	*80 000	*80 000	*80 000	*80 000
Turkey	5 003 000	5 693 764	5 835 889	5 398 500	2 846 280
United Kingdom	8 560 600	10 277 800	10 179 600	10 188 800	10 695 700
EU32 Total	115 190 000	119 360 000	122 860 000	118 150 000	118 220 000

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 EU32 and world total steel production.
- The majority of industrialised countries in the world produce steel. In 2006 the largest producer was China (34%) with production 132% higher than in 2002. In the EU32 the largest producer was Germany, which produced 20% of EU32 steel output.
- World steel prices increased in 2006, following a decline in 2005. Hot-rolled coil (world export prices, fob) started the year around US\$525/tonne and reached US\$600/tonne in August.

EU32 Production of crude steel 2006

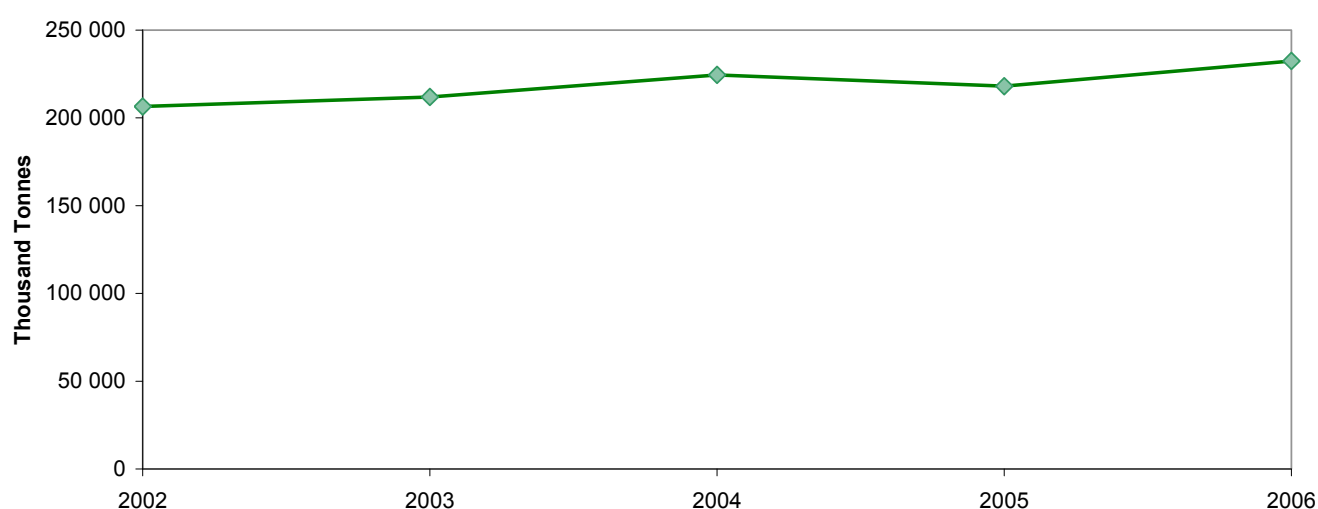
Production of crude steel

tonnes

Country	2002	2003	2004	2005	2006
Austria	6 189 000	6 261 000	6 530 000	7 031 000	7 129 000
Belgium	11 322 008	11 114 775	11 697 000	10 422 000	11 650 000
Bulgaria	1 860 000	1 950 000	2 106 000	1 940 000	2 100 000
Croatia	33 851	43 380	85 947	73 640	80 516
Czech Republic	6 511 970	6 783 000	7 033 000	6 189 000	6 862 000
Denmark	392 000	—	—	—	—
Finland	4 002 914	4 766 203	4 832 427	4 738 446	5 053 714
France	20 258 473	19 757 864	20 770 252	19 480 777	19 852 025
Germany	45 015 000	44 809 000	46 377 000	44 524 000	47 224 000
Greece	1 835 000	1 701 000	1 967 000	2 266 000	2 416 000
Hungary	2 138 146	2 044 526	1 944 017	2 004 250	1 992 000
Italy	26 302 000	27 058 000	28 603 000	29 349 000	31 624 000
Latvia	507 000	546 000	550 000	550 000	550 000
Luxembourg	2 736 000	2 675 000	2 684 000	2 194 000	2 802 000
Macedonia	261 398	306 635	319 873	321 170	326 484
Netherlands	6 117 000	6 561 000	6 848 000	6 919 000	6 372 000
Norway	698 000	703 000	725 000	705 000	684 000
Poland	8 367 434	9 107 384	10 578 482	8 335 898	9 991 638
Portugal	894 000	1 000 000	1 400 000	1 400 000	1 400 000
Romania	5 490 434	5 692 496	6 076 600	5 631 566	6 263 000
Slovakia	4 275 470	4 588 000	4 454 000	4 485 000	5 093 000
Slovenia	481 000	541 000	566 000	583 000	627 000
Spain	16 408 000	16 407 000	17 700 000	17 826 000	18 391 000
Sweden	5 753 300	5 707 300	5 978 100	5 725 700	5 466 100
Switzerland	*1 000 000	*1 000 000	*1 000 000	1 158 000	1 252 000
Turkey	16 045 522	17 644 020	19 868 118	20 961 240	23 307 523
United Kingdom	11 527 600	13 128 500	13 765 700	13 238 900	13 904 600
EU32 Total	206 423 000	211 896 000	224 460 000	218 053 000	232 414 000

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

EU32 Production of crude steel 2002 - 06

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 EU32, Norway is the largest producer and exporter, based on imported metal ores and indigenous resources of silica.

Production of ferro-alloys

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Ferro-molybdenum	4 930	4 400	4 700	5 000	5 000
Ferro-nickel	2 150	2 000	1 900	2 500	2 500
Ferro-vanadium	5 500	5 300	5 800	6 250	6 250
Belgium					
Ferro-molybdenum	...	...	...	...	...
Ferro-vanadium	1 492	...	...	...	...
Bulgaria					
Ferro-silicon	*8 000	*8 000	*8 000	*8 000	*8 000
Czech Republic					
Ferro-vanadium	*3 000	*3 000	*3 500	*2 700	*2 800
Finland					
Ferro-chrome	248 000	250 000	264 492	234 881	243 350
France					
Ferro-manganese & spiegeleisen	416 569	*300 000	*106 000	109 111	139 533
Ferro-silico-manganese	66 215	*107 000	*64 000	*65 000	...
Ferro-silicon	*100 000	*100 000	*100 000	*100 000	*100 000
Silicon metal	84 768	*85 000	*85 000	*85 000	*85 000
Germany					
Ferro-chrome	20 018	18 318	24 857	22 672	26 710
Other ferro-alloys	*30 000	*30 000	*30 000	*30 000	*30 000
Silicon metal	25 257	27 870	28 773	29 349	29 865
Greece					
Ferro-nickel	96 000	90 000	91 000	96 000	89 000
Italy					
Ferro-manganese	*40 000	25 000	38 000	32 000	13 000
Ferro-silico-manganese	*100 000	*100 000	*100 000	*100 000	96 600
Macedonia					
Ferro-nickel	5 135	5 629	5 313	8 141	10 942
Ferro-silicon	—	49 905	66 769	71 249	59 023
Norway					
Ferro-chrome	61 100	—	—	—	—
Ferro-manganese	126 960	*130 000	*130 000	*130 000	*130 000
Ferro-silico-manganese	252 723	*250 000	*260 000	*290 000	*310 000
Ferro-silicon	359 944	...	389 599	...	...
Other ferro-alloys	48 500	*50 000	*60 000	*60 000	*60 000
Silicon metal	152 981	*150 000	193 566	178 572	*150 000
Poland					
Ferro-chrome	106	188	—	—	—
Ferro-manganese	602	979	46 898	7 782	4 089
Ferro-silico-manganese	7 500	5 000	29 600	10 242	3 310
Ferro-silicon	41 759	92 687	83 552	65 118	13 034
Other ferro-alloys	4 200	—	1 419	3 663	4 848
Romania					
Ferro-manganese	—	—	191	18 625	3 224
Ferro-silico-manganese	84 720	141 899	194 754	100 957	53 076
Slovakia					
Ferro-chrome	5 695	1 924	1 784	867	19
Ferro-silico-manganese	62 084	52 733	64 862	47 843	...
Ferro-silicon	35 920	41 539	34 684	16 512	...
Other ferro-alloys	24 657	44 589	68 096	48 161	...

Production continued

tonnes

Country	2002	2003	2004	2005	2006
Slovenia					
Ferro-silicon	*9 000	*12 000	*18 000	*11 000	*8 000
Spain					
Ferro-manganese	33 218	*35 000	*35 000	*35 000	*35 000
Ferro-silico-manganese	103 494	*100 000	*100 000	*100 000	*100 000
Ferro-silicon	56 994	*60 000	*60 000	*60 000	*60 000
Silicon metal	26 071	*25 000	*25 000	*25 000	*25 000
Sweden					
Ferro-chrome	118 800	106 100	127 300	127 500	136 400
Ferro-silicon	21 500	17 100	18 500	9 800	4 600
Turkey					
Ferro-chrome	11 200	35 393	33 686	26 043	67 975
Ferro-silico-chrome	7 245	6 805	5 526	6 695	7 310

Exports of iron, steel and ferro-alloys

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Pig iron	80	5 833	6 585	6 614	5 695
Ferro-alloys	16 390	17 202	5 999	9 476	10 218
Silicon metal	470	751	598	628	1 884
Ingots, blooms, billets	217 580	256 981	334 124	484 431	303 284
Scrap	777 267	842 323	1 099 278	1 024 301	1 140 091
Belgium-Luxembourg					
Pig iron	172 175	227 815	225 486	201 577	230 490
Sponge & powder	13 263	18 741	29 127	15 850	19 750
Ferro-chrome	41 565	39 778	32 998	31 851	38 401
Ferro-silico-chrome	3 593	10 381	7 214	9 107	17 169
Ferro-silico-magnesium	38	79	39	11	52
Ferro-manganese	23 985	16 246	9 621	11 674	11 122
Ferro-silico-manganese	29 953	38 032	41 307	29 858	41 422
Ferro-molybdenum	...	...	19 219	22 420	22 679
Ferro-silicon	30 962	18 856	31 000	21 812	39 501
Other ferro-alloys	4 342	9 678	6 445	6 700	6 550
Silicon metal	5 873	8 227	6 078	9 095	6 765
Ingots, blooms, billets	548 174	395 499	368 589	639 936	859 247
Scrap	1 821 636	2 310 658	2 851 040	2 712 683	3 052 438
Bulgaria					
Ferro-alloys	5 088	8 045	5 646	3 072	7 163
Ingots, blooms, billets	111 719	355 397	277 332	97 757	163 020
Scrap	459 322	572 559	769 559	784 778	722 261
Croatia					
Scrap	197 532	235 322	279 852	318 840	398 070
Cyprus					
Scrap	38 154	41 926	46 316	55 240	65 998
Czech Republic					
Pig iron	28 844	50 125	55 687	15 526	17 599
Ferro-vanadium	2 949	3 012	3 417	2 613	2 763
Other ferro-alloys	4 732	6 707	13 114	19 591	21 357
Silicon metal	859	778	4 488	512	1 040
Ingots, blooms, billets	287 557	249 522	267 912	251 513	324 619
Scrap	1 057 822	1 178 514	1 930 343	1 351 676	1 456 061
Denmark					
Ferro-silicon	...	325	20 935	23 295	14 611
Ingots, blooms, billets	21 432	8 119	16 223	1 203	2 199
Scrap	1 058 048	1 310 175	1 564 469	1 402 982	1 414 060

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Estonia					
Pig iron	(b) *500	(b) *3 400	...	...	...
Ferro-alloys	10 271	23 420	1 238	665	672
Scrap	326 407	376 554	358 185	440 622	592 372
Finland					
Pig iron	231	86	0	8 040	3 045
Ferro-chrome	80 026	33 499	35 780	39 341	37 663
Ingots, blooms, billets	186 989	501 945	624 170	436 083	284 313
Scrap	359 153	374 778	315 977	286 494	220 124
France					
Pig iron	3 378	153	679	350	113 729
Sponge & powder	5 983	6 231	5 221	6 465	13 059
Ferro-chrome	3 747	1 456	1 074	857	875
Ferro-silico-magnesium	6 521	5 262	5 521	6 829	2 165
Ferro-manganese	26 302	28 094	14 360	7 181	7 483
Ferro-silico-manganese	73 647	53 270	63 483	76 021	53 278
Ferro-molybdenum	348	300	538	547	673
Ferro-nickel	104	2	7	25	71
Ferro-niobium	361	926	521	240	596
Ferro-silicon	53 682	65 871	65 881	69 551	63 432
Ferro-titanium & ferro-silico-titanium	1 434	1 463	1 305	1 542	1 992
Ferro-vanadium	25	50	53	98	45
Other ferro-alloys	35 746	37 534	34 781	34 138	24 748
Ingots, blooms, billets	3 419 270	3 420 829	3 833 258	3 914 427	3 071 836
Scrap	4 656 513	4 990 462	5 578 148	4 955 474	6 019 890
Germany					
Pig iron	67 365	56 571	112 911	82 834	180 939
Sponge & powder	83 354	95 612	148 734	175 291	197 636
Ferro-chrome	33 992	30 640	22 758	26 472	36 289
Ferro-silico-chrome	608	1	79	4	55
Ferro-silico-magnesium	6 825	5 551	13 887	14 254	12 142
Ferro-manganese	13 036	8 937	13 776	12 660	24 659
Ferro-silico-manganese	11 520	10 306	9 286	2 928	9 748
Ferro-molybdenum	1 283	2 054	2 597	3 867	3 499
Ferro-nickel	57	94	625	31	115
Ferro-niobium	828	713	1 076	1 448	1 130
Ferro-phosphorus	1 163	691	786	936	977
Ferro-silicon	64 000	60 016	61 239	53 979	53 963
Ferro-titanium & ferro-silico-titanium	3 607	2 478	3 069	5 263	4 795
Ferro-tungsten & ferro-silico-tungsten	106	268	178	176	423
Ferro-vanadium	634	653	600	528	268
Other ferro-alloys	22 860	21 610	27 285	25 838	23 784
Silicon metal	10 060	16 141	18 064	—	—
Ingots, blooms, billets	2 011 458	2 563 182	2 104 580	1 950 158	2 171 036
Scrap	6 880 778	6 718 904	6 956 839	6 692 022	7 605 306
Greece					
Ferro-alloys	7 976	1 742	5 528	1 044	511
Ingots, blooms, billets	1 157	2 908	64 105	48	13 899
Scrap	39 806	56 047	59 502	37 164	126 188
Hungary					
Ferro-alloys	694	436	701	234	—
Ingots, blooms, billets	87 994	32 452	24 042	24 923	14 731
Scrap	553 847	618 827	887 069	761 464	658 499
Irish Republic					
Scrap	228 807	292 971	347 479	352 028	398 587

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Italy					
Pig iron	58 982	40 069	41 068	15 740	22 114
Sponge & powder	651	130	62	163	194
Ferro-chrome	9 576	7 290	8 411	3 753	8 276
Ferro-silico-magnesium	2 119	1 673	3 163	30	93
Ferro-manganese	5 382	6 322	8 857	10 380	8 670
Ferro-silico-manganese	2 055	1 392	3 167	3 511	4 086
Ferro-molybdenum	351	352	162	90	174
Ferro-nickel	...	...	...	3 967	173
Ferro-silicon	2 697	3 287	3 594	5 035	4 457
Ferro-vanadium	2 873	817	63	3	11
Other ferro-alloys	975	488	2 859	1 023	2 068
Silicon metal	1 092	583	1 667	3 931	3 304
Ingots, blooms, billets	786 800	546 474	402 967	698 402	958 626
Scrap	153 190	173 616	211 385	185 688	190 139
Latvia					
Ferro-chrome	11 000	20	19	...	—
Scrap	6 328	6 415	64 936	217 361	313 455
Lithuania					
Ferro-alloys	...	...	...	13 293	17 952
Scrap	704 948	618 231	677 727	599 084	681 692
Macedonia					
Ferro-silico-manganese	6	53	138	1 673	6 682
Ferro-nickel	15 162	17 304	16 260	34 419	45 058
Ferro-silicon	716	44 583	67 929	74 450	62 794
Scrap	5 922	26 935	61 690	85 745	98 763
Malta					
Scrap	20 322	23 093	12 424	5 252	19 012
Netherlands					
Pig iron	5 131	7 377	31 821	40 552	28 806
Sponge & powder	107 474	15 255	15 794	46 464	22 899
Ferro-chrome	9 122	38 469	70 272	81 105	92 920
Ferro-silico-chrome	5	68	18	508	299
Ferro-silico-magnesium	...	121	751	4 195	...
Ferro-manganese	23 131	25 842	53 367	49 203	28 423
Ferro-silico-manganese	7 037	20 830	16 109	13 994	14 118
Ferro-molybdenum	1 242	1 610	2 712	4 304	5 652
Ferro-nickel	4 159	4 112	9 855	23 252	42 421
Ferro-niobium	130	131	47	126	217
Ferro-phosphorus	...	4 447	12 515	12 173	...
Ferro-silicon	9 899	27 511	27 328	95 845	97 120
Ferro-titanium & ferro-silico-titanium	225	213	660	6 235	4 281
Ferro-tungsten & ferro-silico-tungsten	217	264	193	624	477
Ferro-vanadium	910	2 838	2 901	22 495	5 855
Other ferro-alloys	9 379	10 519	5 925	9 700	5 683
Silicon metal	8 819	15 957	10 319	40 393	56 525
Ingots, blooms, billets	538 825	239 603	309 454	152 593	378 061
Scrap	3 064 283	3 242 779	3 859 394	4 140 362	4 786 987
Norway					
Pig iron (b)	*119 400	*118 400	*123 700	*66 800	*149 300
Ferro-chrome (b)	*87 500	*1 900	*600	*200	—
Ferro-manganese (b)	*169 600	*213 700	*338 900	*274 200	*282 100
Ferro-silico-manganese	240 477	255 243	264 163	289 497	306 932
Ferro-silicon	251 252	194 246	256 018	179 503	90 556
Other ferro-alloys	49 366	53 913	59 696	55 564	58 033
Silicon metal	150 681	151 476	176 458	168 790	152 514
Ingots, blooms, billets	126 094	160 127	148 514	151 882	180 500
Scrap	227 592	263 510	270 903	267 051	337 088
Poland					
Pig iron	3 003	16 023	57 696	4 917	19 286
Ferro-manganese & Fe-Si-Mn	3 637	1 451	66 666	22 713	11 954
Ferro-silicon	43 021	84 406	85 538	64 974	16 023
Other ferro-alloys	96	86	195	915	1 630
Ingots, blooms, billets	1 034 776	975 777	1 585 494	1 249 618	964 361
Scrap	1 535 305	1 804 181	1 973 116	1 426 831	1 197 827

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Portugal					
Ingots, blooms, billets	15 058	33 032	184 547	159 868	79 697
Scrap	231 761	201 189	259 297	330 536	479 017
Romania					
Pig iron	2 686	6 367	3 339	...	1
Sponge & powder	7 797	6 886	9 187	12 522	12 851
Ferro-silico-manganese	(a) ...	124 557	179 788	142 617	41 000
Other ferro-alloys	88 368	2 529	3 891	8 657	3 561
Ingots, blooms, billets	162 991	130 415	161 438	100 515	87 685
Scrap	2 070 119	2 386 017	2 394 490	1 661 747	1 862 498
Slovakia					
Pig iron	13 213	37 145	73 303	31 261	50 497
Ferro-manganese	47 074	37 139	57 440	41 918	59 475
Ferro-silico-manganese	56 484	54 945	66 902	51 623	73 050
Ferro-silicon	39 550	42 018	40 135	29 130	25 240
Other ferro-alloys	14 541	10 013	11 834	10 741	8 033
Ingots, blooms, billets	191 414	125 822	286 072	289 090	654 743
Scrap	450 126	497 645	544 714	390 620	524 597
Slovenia					
Ferro-alloys	31 083	34 420	37 714	51 410	49 356
Silicon metal	40	188	1 608	252	3 006
Ingots, blooms, billets	8 292	13 311	15 327	12 647	12 273
Scrap	126 233	113 448	186 726	225 627	222 403
Spain					
Pig iron	4 177	2 751	3 258	12 709	4 202
Sponge & powder	3 920	4 447	4 914	4 397	4 030
Ferro-chrome	472	369	551	775	1 024
Ferro-manganese	73 506	62 260	82 733	101 850	91 018
Ferro-silico-manganese	29 297	44 214	40 130	42 916	32 806
Ferro-molybdenum	326	342	60	331	317
Ferro-silicon	14 730	13 140	19 332	11 843	7 759
Other ferro-alloys	750	891	558	992	493
Silicon metal	17 621	11 035	13 254	16 742	16 566
Ingots, blooms, billets	241 944	182 247	130 079	118 414	114 897
Scrap	93 970	103 413	205 298	140 200	137 273
Sweden					
Pig iron	30 079	118 378	116 550	99 496	145 733
Sponge & powder	11 356	9 311	12 306	9 064	15 238
Ferro-chrome	617	1 070	1 830	1 801	1 973
Ferro-silico-magnesium	392	479	235	60	739
Ferro-manganese	...	...	1 478	...	2 584
Ferro-manganese & Fe-Si-Mn	6 903	1 159	1 605	3 456	...
Ferro-molybdenum	745	71	87	158	157
Ferro-phosphorus	1 203	463	281	294	706
Ferro-silicon	736	182	441	731	1 968
Ferro-vanadium	427	27	99	249	61
Other ferro-alloys	6 903	1 527	2 796	1 525	2 734
Silicon metal	6 742	2 790	6 387	6 049	2 321
Ingots, blooms, billets	297 913	166 876	367 562	232 958	116 880
Scrap	722 509	708 654	741 254	863 474	847 179
Switzerland					
Sponge & powder	1 018	1 247	1 679	2 222	2 233
Ferro-alloys	591	907	1 261	867	616
Ingots, blooms, billets	31 317	51 008	51 639	83 219	88 289
Scrap	412 341	451 452	539 629	561 972	582 567

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Turkey					
Pig iron	12 895	1 060	50 165	9 358	1 150
Ferro-chrome	61 163	53 695	16 286	38 738	9 858
Other ferro-alloys	1 156	5 361	5 092	5 474	600
Ingots, blooms, billets	2 734 188	3 178 909	3 769 934	2 174 257	560 003
Scrap	34 512	48 741	82 460	64 281	44 474
United Kingdom					
Pig iron	3 376	1 459	957	1 387	5 407
Sponge & powder	3 134	3 666	4 003	3 605	2 346
Ferro-chrome & ferro-silico-chrome	814	1 711	2 384	6 238	4 066
Ferro-silico-magnesium	...	...	316	542	653
Ferro-manganese	1 874	434	1 554	661	473
Ferro-silico-manganese	116	42	8 247	5 003	60
Ferro-molybdenum	11 965	14 081	14 213	11 501	12 004
Ferro-nickel	368	424	125	55	329
Ferro-niobium	46	59	47	79	74
Ferro-phosphorus	57	109	1 336	189	36
Ferro-silicon	3 155	1 845	2 699	2 652	2 733
Ferro-titanium & ferro-silico-titanium	16 334	14 676	20 703	17 361	17 645
Ferro-vanadium	55	39	17	156	151
Other ferro-alloys	9 226	6 349	5 544	6 204	4 344
Silicon metal	4 050	2 699	1 555	2 466	6 963
Ingots, blooms, billets	560 796	1 305 976	1 712 102	2 246 377	2 692 654
Scrap	5 538 569	7 174 934	6 772 111	6 105 955	7 407 174

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	2002	2003	2004	2005	2006
Austria					
Pig iron	30 284	34 462	66 196	51 982	40 133
Sponge & powder	14 873	12 042	10 917	25 214	20 542
Ferro-chrome	24 412	32 874	43 438	41 046	34 196
Ferro-silico-magnesium	877	969	627	678	522
Ferro-manganese	37 772	34 748	39 026	37 865	29 385
Ferro-silico-manganese	4 829	11 795	6 817	26 572	22 456
Ferro-molybdenum	1 348	1 066	1 011	617	1 632
Ferro-niobium & ferro-niobium- tantalum	781	1 669	934	899	955
Ferro-phosphorus	1 023	1 645	1 433	1 749	1 520
Ferro-silicon	23 493	36 918	47 223	32 445	25 609
Ferro-titanium & ferro-silico-titanium	1 136	1 427	961	1 121	1 081
Ferro-tungsten & ferro-silico-tungsten	562	712	589	535	677
Ferro-vanadium	571	643	587	256	100
Other ferro-alloys	3 083	3 631	3 321	3 981	3 653
Silicon metal	10 273	9 822	9 127	11 698	12 937
Ingots, blooms, billets	120 409	99 393	156 796	108 004	132 901
Scrap	865 061	936 512	1 017 497	1 113 082	1 089 942

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Pig iron	270 015	291 507	396 174	330 709	560 116
Sponge & powder	13 234	26 084	107 639	48 915	102 543
Ferro-chrome	176 217	198 691	215 638	220 896	342 280
Ferro-silico-chrome	3 426	12 392	7 435	9 587	19 190
Ferro-silico-magnesium	425	327	993	1 656	2 040
Ferro-manganese	67 683	54 564	49 305	60 564	54 402
Ferro-silico-manganese	56 769	54 676	56 622	60 454	69 526
Ferro-molybdenum	3 573	5 141	4 317	5 199	5 929
Ferro-nickel	42 337	32 673	51 796	61 454	73 384
Ferro-niobium	720	719	712	849	936
Ferro-phosphorus	769	1 124	1 237	1 700	1 607
Ferro-silicon	73 251	63 474	93 591	79 901	109 389
Ferro-titanium & ferro-silico-titanium	1 761	2 069	1 677	2 141	3 016
Ferro-tungsten & ferro-silico-tungsten	...	...	...	309	322
Ferro-vanadium	182	412	568	650	338
Other ferro-alloys	8 591	5 186	9 673	10 854	10 534
Silicon metal	14 985	15 579	15 136	18 563	20 117
Ingots, blooms, billets	2 383 948	3 894 592	2 814 705	3 452 850	2 876 977
Scrap	3 146 151	3 896 924	4 413 160	3 761 788	4 297 928
Bulgaria					
Pig iron	16 304	45 935	14 228	19 624	15 278
Powder	328	313	437	328	533
Ferro-manganese	2 047	5 152	5 116	5 540	6 133
Other ferro-alloys	4 440	9 232	7 441	6 539	9 172
Silicon metal	137	232	663	585	9 734
Ingots, blooms, billets	7 951	116 005	280 895	275 001	417 485
Scrap	43 260	74 445	90 491	108 450	188 698
Croatia					
Pig iron	14 124	14 821	15 175	15 270	16 994
Ferro-alloys	2 265	2 421	2 980	2 893	3 031
Silicon metal	391	350	510	261	61
Ingots, blooms, billets	13 527	18 523	3 562	12 421	27 291
Scrap	3 937	5 361	7 156	18 407	17 563
Czech Republic					
Pig iron	90 568	72 151	88 014	88 549	150 032
Sponge & powder	5 739	21 478	5 661	6 130	10 136
Ferro-chrome	43 181	13 193	16 248	16 772	20 492
Ferro-manganese	21 055	24 154	27 051	30 921	32 355
Ferro-silico-manganese	26 130	55 989	59 361	53 258	57 857
Ferro-molybdenum	1 054	1 346	1 710	1 744	1 889
Ferro-silicon	20 570	26 721	34 812	34 114	36 361
Ferro-vanadium	250	225	395	564	429
Other ferro-alloys	7 851	8 745	9 817	10 959	10 316
Silicon metal	2 713	4 095	8 401	2 589	4 986
Ingots, blooms, billets	263 839	268 231	352 672	484 450	409 753
Scrap	372 348	506 094	593 330	392 135	560 676
Denmark					
Pig iron	59 866	5 678	14 844	12 720	18 128
Sponge & powder	14 155	6 471	103 479	29 188	80 148
Ferro-manganese	1 674	16	38	161	117
Ferro-silico-manganese	2 071	...	...	818	—
Ferro-silicon	337	2 495	3 564	2 548	4 069
Other ferro-alloys	784	459	712	366	2 976
Silicon metal	2 179	1 521	1 061	659	1 540
Ingots, blooms, billets	75 117	588 317	598 552	551 407	588 053
Scrap	325 841	237 035	250 551	313 558	238 142
Estonia					
Ferro-alloys	9 905	16 840	2 132	2 125	1 815
Silicon metal	946	1 827	574	125	105
Scrap	17 142	35 654	85 689	111 930	64 110

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Finland					
Pig iron	72 083	41 213	30 453	27 160	45 364
Sponge & powder	16 335	28 412	16 906	969	779 146
Ferro-chrome	5 690	9 395	6 562	7 404	17 926
Ferro-manganese	12 744	16 237	15 805	14 728	14 828
Ferro-silico-manganese	32 832	41 466	40 800	38 375	38 440
Ferro-molybdenum	2 333	2 776	2 709	2 293	1 948
Ferro-nickel	61 244	71 996	60 213	47 531	53 741
Ferro-niobium	485	494	470	478	493
Ferro-phosphorus	139	506	570	489	550
Ferro-silicon	20 729	37 976	32 507	25 723	36 659
Ferro-titanium & ferro-silico-titanium	1 271	1 632	2 063	1 912	1 558
Ferro-vanadium	222	238	250	243	249
Other ferro-alloys	3 162	3 640	4 448	4 505	4 543
Silicon metal	2 397	1 601	2 097	1 306	1 402
Ingots, blooms, billets	350 229	196 611	253 730	51 678	5 138
Scrap	476 516	781 633	865 142	756 267	1 013 675
France					
Pig iron	225 850	254 512	237 824	249 585	183 755
Sponge & powder	140 863	148 215	151 090	184 661	219 813
Ferro-chrome	310 760	260 231	224 722	192 129	159 940
Ferro-silico-chrome	2 116	1 524	59	122	677
Ferro-silico-magnesium	2 166	1 840	1 524	920	928
Ferro-manganese	57 442	46 048	96 276	55 239	57 240
Ferro-silico-manganese	64 538	73 362	61 446	58 403	49 287
Ferro-molybdenum	4 839	4 643	5 474	5 235	5 223
Ferro-nickel	36 725	28 974	10 966	9 229	4 487
Ferro-niobium	1 703	2 286	2 297	2 722	2 597
Ferro-phosphorus	2 464	2 160	2 942	2 536	2 360
Ferro-silicon	87 071	70 729	62 260	71 269	64 727
Ferro-titanium & ferro-silico-titanium	5 441	4 828	4 768	6 448	9 037
Ferro-tungsten & ferro-silico-tungsten	283	485	346	523	839
Ferro-vanadium	940	1 063	1 031	1 351	1 396
Other ferro-alloys	16 543	16 253	18 670	27 582	20 896
Silicon metal	19 212	16 489	19 299	25 257	21 813
Ingots, blooms, billets	1 777 677	1 595 528	1 803 335	1 621 219	1 557 219
Scrap	2 833 589	3 019 857	3 449 108	2 819 160	3 319 269
Germany					
Pig iron	229 592	221 451	342 152	320 481	422 525
Sponge & powder	80 690	142 967	180 615	156 048	193 503
Ferro-chrome	383 712	478 203	440 993	454 703	458 070
Ferro-silico-chrome	2 740	8 354	11 367	1 429	12 867
Ferro-silico-magnesium	12 651	1 103	1 722	6 831	23 761
Ferro-manganese	183 336	178 917	175 176	170 967	195 387
Ferro-silico-manganese	147 113	144 637	172 164	172 967	181 726
Ferro-molybdenum	12 126	10 369	13 214	15 594	17 473
Ferro-nickel	89 782	82 618	90 614	157 091	150 789
Ferro-niobium	3 746	3 197	3 864	4 361	6 063
Ferro-phosphorus	5 807	4 728	4 131	4 985	5 575
Ferro-silicon	195 233	231 346	237 700	238 120	214 736
Ferro-titanium & ferro-silico-titanium	11 188	8 862	6 845	10 302	13 492
Ferro-tungsten & ferro-silico-tungsten	498	486	400	600	990
Ferro-vanadium	4 767	5 471	4 006	4 843	5 171
Other ferro-alloys	43 225	25 367	22 754	25 139	43 034
Silicon metal	108 062	120 821	130 408	156 690	184 499
Ingots, blooms, billets	1 160 168	1 306 210	1 945 817	2 331 264	2 578 298
Scrap	3 804 881	4 364 130	5 411 710	5 026 286	5 592 745

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Greece					
Pig iron	15 085	10 844	15 494	6 415	9 172
Ferro-manganese	1 695	2 454	2 604	1 293	640
Ferro-silico-manganese	24 110	19 505	23 808	31 657	31 524
Ferro-silicon	3 990	7 353	7 899	6 339	4 694
Other ferro-alloys	642	540	1 022	1 148	1 315
Silicon metal	856	1 140	1 055	1 126	1 408
Ingots, blooms, billets	148 798	211 021	229 854	90 412	120 241
Scrap	1 179 017	1 138 900	1 178 451	1 545 912	1 517 545
Hungary					
Pig iron	23 881	19 312	14 429	8 808	14 821
Ferro-manganese	10 908	11 503	9 152	2 898	15 611
Ferro-silicon	5 173	5 530	5 295	5 013	4 821
Other ferro-alloys	6 406	4 089	4 376	5 417	4 980
Silicon metal	3 567	4 686	5 196	2 260	4 847
Ingots, blooms, billets	82 919	91 664	82 336	102 861	38 956
Scrap	135 594	112 463	62 753	45 860	65 136
Irish Republic					
Pig iron	5 120	4 808	3 812	3 215	2 710
Ferro-alloys	663	224	286	474	397
Silicon metal	219	431	367	221	286
Ingots, blooms, billets	1 601	1 291	1 487	1 637	7 928
Scrap	1 420	786	1 277	1 137	3 650
Italy					
Pig iron	1 121 250	1 209 778	1 304 367	1 729 086	1 791 165
Sponge & powder	289 728	316 524	206 956	424 810	468 825
Ferro-chrome	378 402	368 649	400 159	428 716	464 364
Ferro-silico-chrome	189	30	5	32	28
Ferro-silico-magnesium	7 651	6 601	7 826	5 409	6 809
Ferro-manganese	77 121	69 901	79 827	84 920	95 010
Ferro-silico-manganese	151 140	150 805	182 945	174 391	216 632
Ferro-molybdenum	3 866	4 954	7 289	7 294	7 469
Ferro-nickel	60 680	59 367	82 107	141 603	129 870
Ferro-niobium	1 523	1 408	1 403	2 457	2 194
Ferro-phosphorus	1 021	662	830	987	547
Ferro-silicon	114 779	130 582	119 820	141 789	147 121
Ferro-titanium & ferro-silico-titanium	2 462	3 065	3 379	3 978	3 922
Ferro-tungsten & ferro-silico-tungsten	108	123	229	208	307
Ferro-vanadium	2 180	1 759	1 890	1 945	1 839
Other ferro-alloys	17 338	15 096	17 062	17 384	17 055
Silicon metal	37 799	48 298	46 108	49 129	51 696
Ingots, blooms, billets	2 138 491	2 510 222	3 874 346	4 310 404	5 792 203
Scrap	4 045 986	4 380 744	5 606 124	5 367 259	5 668 405
Latvia					
Pig iron	14 351	79 359	75 448	54 639	57 696
Ferro-alloys	8 980	10 920	16 240	12 222	11 877
Silicon metal	2 572	5 638	2 220	1 711	1 409
Ingots, blooms, billets	99 588	172 092	195 467	206 550	145 037
Scrap	160 459	174 272	171 941	161 538	266 616
Lithuania					
Ferro-alloys	...	401	568	11 411	14 417
Ingots, blooms, billets	...	971	2 351	4 279	5 260
Scrap	96 950	30 508	82 325	74 816	103 878
Macedonia					
Pig iron	983	1 130	1 484	1 970	3 781
Ferro-alloys	3 597	2 842	4 907	2 786	2 860
Ingots, blooms, billets	5 210	...	137 447	226 286	359 029
Scrap	23 542	61 164	129 487	264 067	277 360

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Netherlands					
Pig iron	144 375	63 821	71 664	107 828	122 097
Sponge & powder	114 868	71 606	59 030	131 170	251 304
Ferro-chrome	114 878	68 424	176 862	170 806	204 637
Ferro-silico-chrome	398	6	616	621	1 125
Ferro-silico-magnesium	3 212	1 305	2 196	2 779	3 733
Ferro-manganese	42 054	72 916	112 073	115 972	102 493
Ferro-silico-manganese	40 133	54 901	33 492	30 114	47 986
Ferro-molybdenum	1 457	1 800	5 282	5 100	7 554
Ferro-nickel	12 428	9 213	38 872	39 305	17 866
Ferro-niobium	31	16	16	51	159
Ferro-phosphorus	1 976	1 421	...	...	...
Ferro-silicon	129 678	110 329	153 435	145 459	122 016
Ferro-titanium & ferro-silico-titanium	1 565	2 083	4 272	11 496	11 005
Ferro-tungsten & ferro-silico-tungsten	393	405	625	1 148	2 928
Ferro-vanadium	3 240	3 565	3 608	5 100	4 409
Other ferro-alloys	6 654	4 002	5 680	7 412	25 282
Silicon metal	33 395	43 195	36 792	52 931	69 104
Ingots, blooms, billets	102 428	124 817	302 637	322 908	390 652
Scrap	1 378 767	1 751 693	2 250 964	2 030 115	2 321 144
Norway					
Pig iron	16 844	14 639	8 823	10 841	12 813
Sponge & powder	48 170	45 271	38 519	13 729	320
Ferro-chrome	499	571	860	1 251	1 440
Ferro-manganese	3 987	5 921	9 703	6 154	5 328
Ferro-silico-manganese	716	3 560	933	1 071	2 729
Ferro-silicon	14 177	19 180	11 684	25 663	26 931
Other ferro-alloys	1 543	2 016	1 679	1 877	3 392
Silicon metal	8 629	13 424	17 653	26 714	37 439
Ingots, blooms, billets	132 220	101 819	150 611	142 986	161 778
Scrap	347 080	381 683	416 062	345 634	313 184
Poland					
Pig iron	103 349	86 108	150 163	239 240	220 163
Sponge & powder	13 193	34 091	34 456	24 490	12 448
Ferro-chrome	7 716	8 073	10 352	10 863	12 318
Ferro-manganese	42 851	37 530	46 414	29 230	35 508
Ferro-silico-manganese	40 023	53 968	64 985	51 197	63 332
Ferro-molybdenum	833	829	1 138	1 178	1 168
Ferro-silicon	25 664	27 132	29 551	22 769	24 986
Ferro-vanadium	308	228	393	313	480
Other ferro-alloys	6 431	6 322	7 454	11 871	15 521
Silicon metal	6 208	10 586	9 967	9 243	11 935
Ingots, blooms, billets	31 962	85 027	191 722	298 314	569 057
Scrap	69 947	96 426	278 271	238 113	289 956
Portugal					
Pig iron	25 139	12 763	16 089	19 713	15 149
Ferro-manganese	490	779	889	885	816
Ferro-silico-manganese	2 331	5 757	1 742	10 021	12 779
Ferro-molybdenum	126	85	193	759	49
Ferro-silicon	2 296	2 339	1 881	3 028	3 341
Other ferro-alloys	4 636	3 809	2 788	8 440	10 756
Ingots, blooms, billets	123 087	5 829	7 167	10 538	14 494
Scrap	218 978	353 646	292 753	653 988	1 056 949
Romania					
Ferro-alloys	66 087	69 411	92 302	88 454	78 645
Silicon metal	1 590	5 888	3 401	2 813	8 947
Ingots, blooms, billets	724 751	510 940	559 793	448 454	633 196

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Slovakia					
Pig iron	20 219	14 998	29 498	39 400	59 145
Sponge & powder	15 318	11 704	11 141	13 832	24 994
Ferro-alloys	31 332	36 038	35 878	44 534	54 482
Silicon metal	6 496	7 593	8 199	6 279	5 416
Ingots, blooms, billets	29 081	17 534	15 927	10 753	17 086
Scrap	475 898	389 383	241 718	197 550	243 822
Slovenia					
Pig iron	14 851	19 260	27 783	32 217	70 254
Ferro-alloys	32 616	34 959	44 254	71 299	66 110
Silicon metal	4 059	6 483	10 171	6 393	9 945
Ingots, blooms, billets	3 620	3 312	3 199	3 505	3 444
Scrap	262 294	316 188	386 832	434 585	434 330
Spain					
Pig iron	397 194	434 682	593 588	806 327	793 050
Sponge & powder	640 298	593 176	670 063	516 423	641 804
Ferro-chrome	229 425	579 714	221 156	200 543	253 172
Ferro-silico-chrome	1 878	...	48	1 017	...
Ferro-silico-magnesium	3 529	3 979	6 183	5 256	2 891
Ferro-manganese	45 100	27 846	19 817	16 489	14 406
Ferro-silico-manganese	28 237	56 110	75 061	66 531	42 326
Ferro-molybdenum	3 486	4 042	3 456	6 327	10 473
Ferro-nickel	51 626	60 141	58 664	59 113	92 147
Ferro-niobium	335	348	491	906	515
Ferro-phosphorus	2 051	2 020	2 072	2 036	1 771
Ferro-silicon	43 230	56 258	56 736	39 623	52 215
Ferro-titanium & ferro-silico-titanium	496	1 017	1 212	1 880	796
Ferro-vanadium	971	1 050	1 077	824	515
Other ferro-alloys	9 865	6 818	11 175	12 821	9 248
Silicon metal	4 528	3 677	5 660	4 160	2 837
Ingots, blooms, billets	1 062 109	1 524 971	1 495 840	1 219 342	1 601 769
Scrap	5 533 584	6 389 902	7 093 195	6 975 101	7 437 224
Sweden					
Pig iron	26 215	24 894	29 369	38 223	43 492
Sponge & powder	2 667	2 746	3 074	2 091	7 346
Ferro-chrome	109 391	85 830	72 926	86 040	86 160
Ferro-silico-chrome	2 789	1 094	2 521	2 030	1 370
Ferro-silico-magnesium	1 195	1 060	932	914	763
Ferro-manganese	33 238	37 190	32 782	43 005	49 295
Ferro-silico-manganese	13 357	19 493	17 887	18 995	20 566
Ferro-molybdenum	3 728	3 797	4 369	5 364	4 976
Ferro-nickel	8 765	8 738	948	7 431	8 076
Ferro-niobium	747	732	809	1 156	1 504
Ferro-phosphorus	1 553	739	920	314	433
Ferro-silicon	41 278	41 098	38 534	48 950	37 095
Ferro-titanium & ferro-silico-titanium	1 709	1 405	1 627	3 212	1 681
Ferro-tungsten & ferro-silico-tungsten	183	321	564	195	119
Ferro-vanadium	1 037	1 059	1 375	1 316	1 202
Other ferro-alloys	5 822	4 519	6 534	5 888	6 293
Silicon metal	10 639	6 316	10 542	10 832	7 531
Ingots, blooms, billets	426 018	495 734	491 102	294 616	108 821
Scrap	429 341	351 024	271 041	254 358	279 956
Switzerland					
Pig iron	19 466	22 120	22 954	24 628	24 497
Sponge & powder	6 163	6 792	7 631	9 035	8 900
Ferro-chrome	978	1 504	1 161	1 203	1 306
Ferro-manganese	7 567	7 406	7 884	9 033	10 423
Ferro-silico-manganese	5 156	4 444	6 481	4 341	3 717
Ferro-silicon	4 291	5 417	5 194	4 630	7 122
Other ferro-alloys	1 198	1 070	1 203	1 602	1 435
Silicon metal	1 168	716	694	1 135	1 164
Ingots, blooms, billets	16 032	17 132	20 896	38 694	47 524
Scrap	347 211	412 584	544 911	390 607	499 914

Imports continued

tonnes

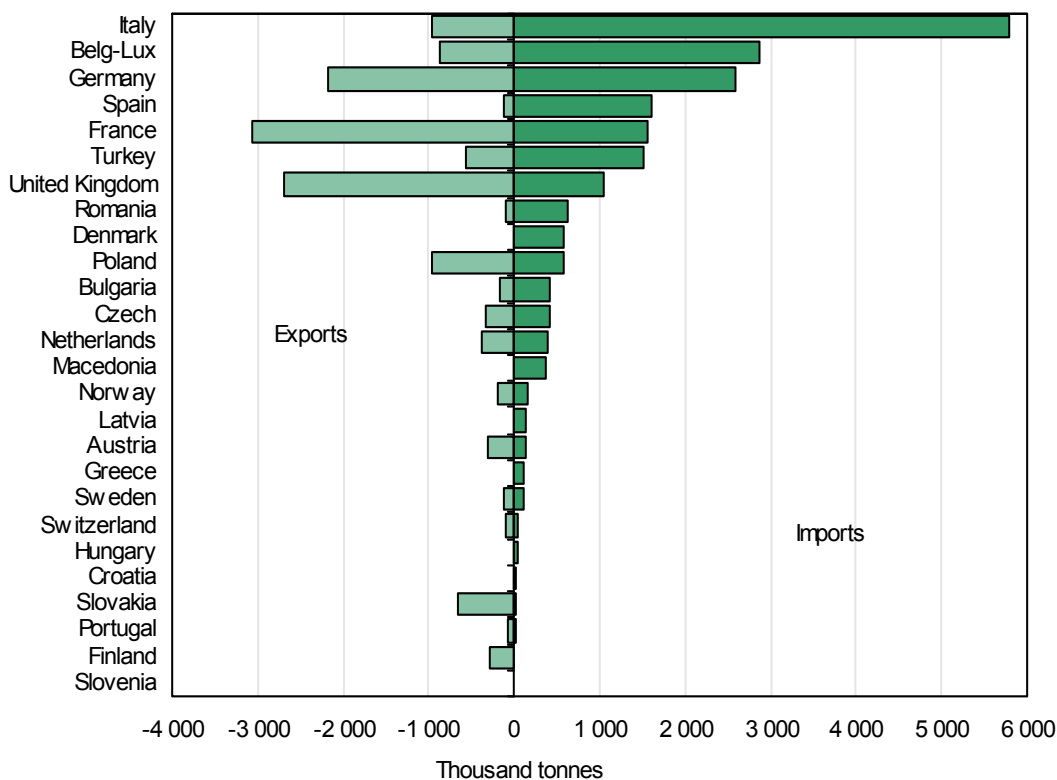
Country	2002	2003	2004	2005	2006
Turkey					
Pig iron	324 368	306 901	286 589	396 658	333 981
Sponge & powder	84 443	75 798	18 084	68 952	34 440
Ferro-manganese	48 178	70 866	44 406	43 631	33 481
Ferro-silico-manganese	157 650	178 594	189 294	159 496	216 036
Ferro-molybdenum	776	816	838	1 253	750
Ferro-niobium	167	189	211	433	113
Ferro-silicon	55 575	126 532	82 543	57 501	49 319
Other ferro-alloys	10 692	11 087	13 926	18 373	9 690
Silicon metal	2 730	7 968	4 649	4 794	5 233
Ingots, blooms, billets	896 891	1 618 384	1 531 529	1 816 973	1 504 374
Scrap	9 749 780	12 818 350	12 892 546	13 010 728	12 860 533
United Kingdom					
Pig iron	124 682	116 724	105 007	102 531	81 689
Sponge & powder	23 673	21 503	21 059	21 914	34 768
Ferro-chrome	112 898	68 405	112 234	63 478	52 494
Ferro-silico-chrome	2 309	63	—	728	350
Ferro-silico-magnesium	5 820	5 663	4 969	5 448	3 810
Ferro-manganese	86 681	76 686	91 533	79 045	86 598
Ferro-silico-manganese	64 565	53 421	63 633	57 136	59 985
Ferro-molybdenum	338	434	836	861	640
Ferro-nickel	11 010	16 437	14 628	11 325	13 169
Ferro-niobium	1 029	1 148	1 236	1 175	1 098
Ferro-phosphorus	1 503	2 124	1 687	3 261	386
Ferro-silicon	76 046	75 469	71 973	58 225	64 610
Ferro-titanium & ferro-silico-titanium	2 729	2 042	2 457	1 883	1 087
Ferro-tungsten & ferro-silico-tungsten	32	60	10	36	134
Ferro-vanadium	748	1 071	1 262	609	1 623
Other ferro-alloys	4 258	2 195	2 275	2 427	6 327
Silicon metal	80 766	100 472	100 233	77 103	29 512
Ingots, blooms, billets	1 453 884	540 537	758 615	722 452	1 053 176
Scrap	113 107	139 089	225 483	180 261	154 967

Note(s) :-

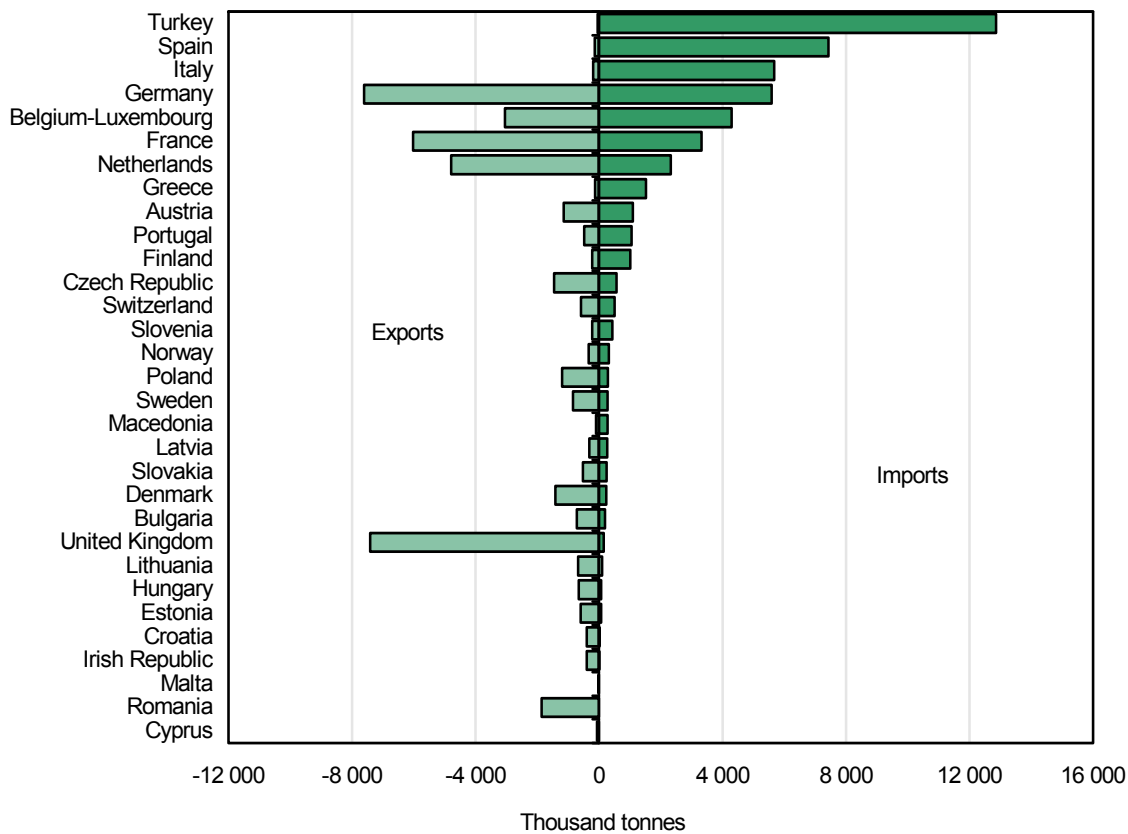
(1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

(a) Included with 'other ferro-alloys'

Iron and steel ingots, blooms and billets - EU32 trade in 2006



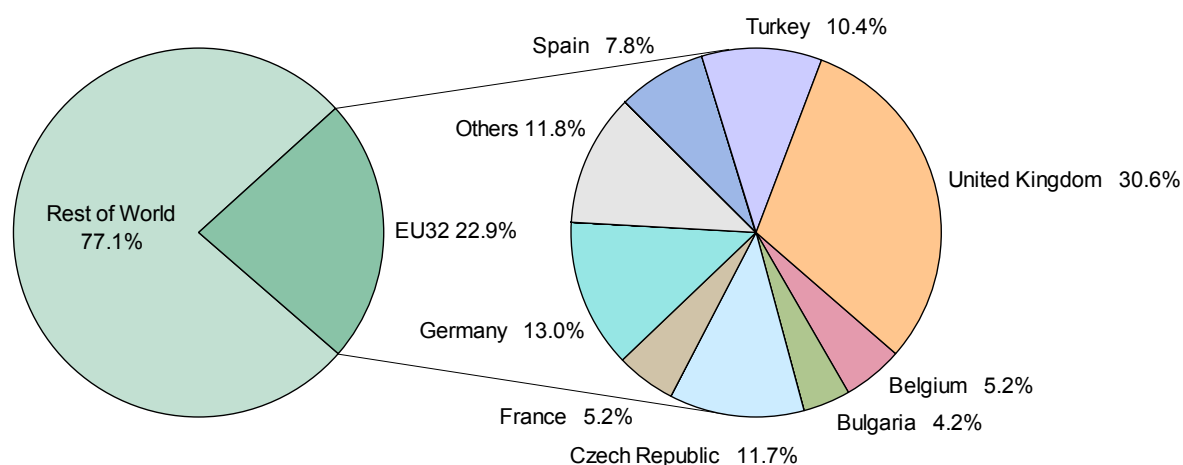
Iron and steel scrap - EU32 trade in 2006



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 EU32 countries, which in 2006 produced 23% of world kaolin. The UK is the largest producer and exporter in the EU32 and fourth biggest in the world.
- Kaolin is traded in several different forms; in 2006 refined, ex-works France ranged from €48–168/tonne.

EU32 Production of kaolin 2006



Production of kaolin

tonnes

Country	2002	2003	2004	2005	2006
Austria	21 212	15 034	16 345	55 508	51 900
Belgium	*300 000	*300 000	*300 000	*300 000	*300 000
Bulgaria	*150 000	*120 000	*190 000	*200 000	*240 000
Czech Republic (c)	577 000	591 000	596 000	649 000	673 000
France	339 000	335 000	316 000	293 000	*300 000
Germany (b)	740 821	738 123	*740 000	*750 000	*750 000
Greece	57 885	59 680	53 438	49 912	*50 000
Hungary	...	...	3 300	1 300	1 350
Italy	174 990	224 755	246 608	183 804	...
Poland (d)	89 372	106 761	130 596	159 207	148 579
Portugal	147 448	169 669	152 077	164 072	167 298
Romania	22 517	25 741	22 338	26 772	10 790
Slovakia	24 600	24 800	89 424	34 830	63 210
Spain (d)	419 483	427 193	437 990	456 000	450 000
Turkey	372 344	370 455	536 008	615 271	*600 000
United Kingdom (a) (e)	2 162 815	2 097 137	1 944 955	1 910 874	1 762 328
EU32 Total	5 600 000	5 600 000	5 800 000	5 800 000	5 800 000

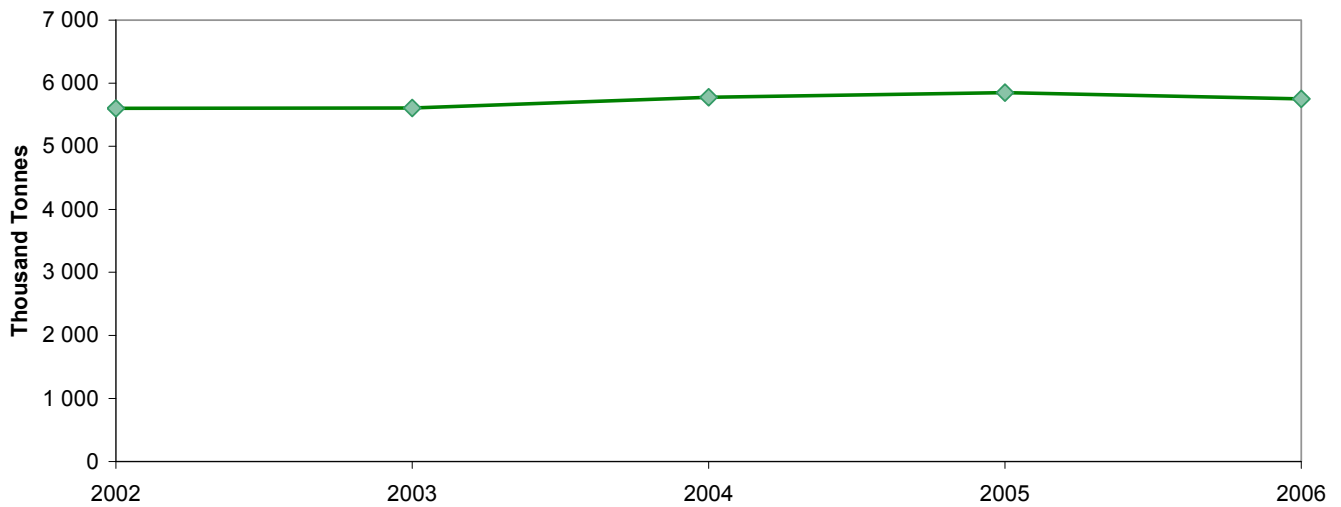
Note(s):-

(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

Kaolin

EU22 Production of kaolin 2002 - 06



Exports of kaolin

tonnes

Country	2002	2003	2004	2005	2006
Austria	3 105	1 870	2 277	3 019	3 649
Belgium-Luxembourg	332 718	539 940	664 743	777 451	628 479
Bulgaria	113 538	124 396	114 399	124 899	149 559
Croatia	5 319	4 362	351	15	35
Czech Republic	443 674	441 545	483 636	268 850	261 019
Denmark	688	583	461	637	443
Finland	10 698	10 032	8 111	7 378	8 373
France	325 323	1 613 484	484 554	421 927	968 538
Germany	333 927	359 926	369 141	301 870	463 804
Greece	884	976	131	129	472
Hungary	3 539	2 388	7 180	6 252	3 781
Italy	47 652	37 357	29 995	40 800	17 287
Netherlands	234 669	335 299	307 337	441 248	431 027
Poland	3 538	10 408	9 941	6 194	7 177
Portugal	15 318	10 131	11 383	31 484	46 494
Slovakia	525	87	475	2 332	10 946
Spain	159 759	172 414	154 667	192 735	213 955
Sweden	8 200	8 791	15 544	18 473	15 735
Turkey	190 404	299 843	267 817	146 562	42 758
United Kingdom (a)	1 899 220	1 862 437	1 728 161	1 698 747	1 566 025

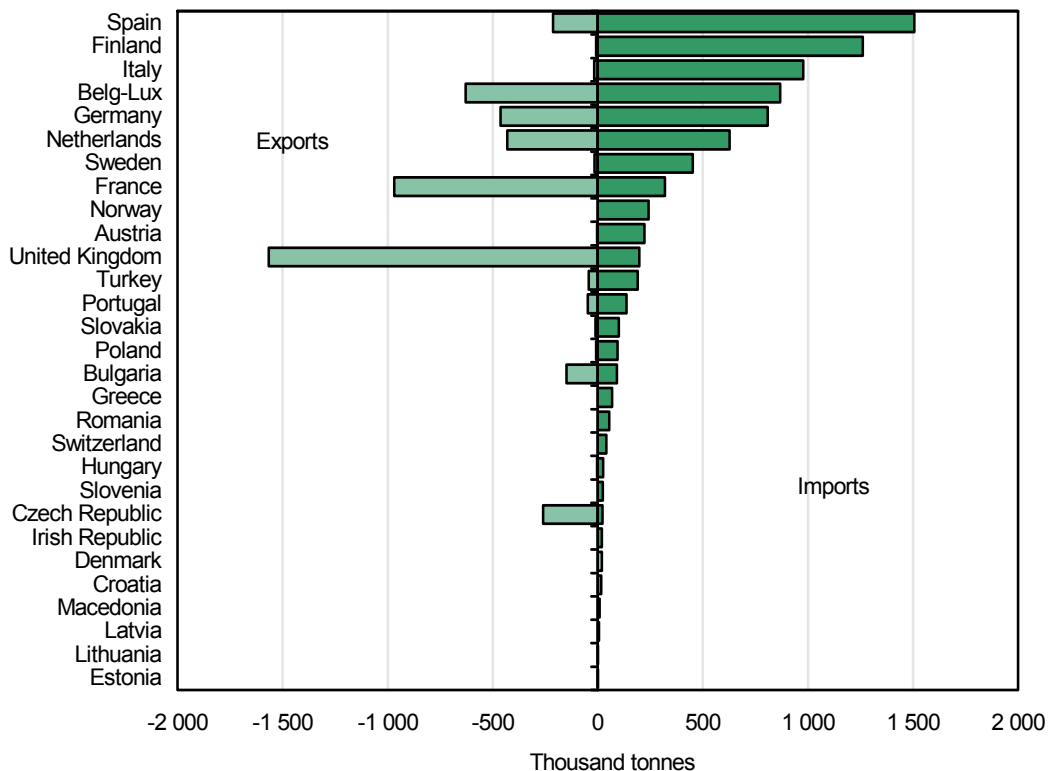
Note(s):-

(a) Dry weight

Imports of kaolin

Country	2002	2003	2004	2005	2006
Austria	249 132	228 674	249 353	234 906	222 007
Belgium-Luxembourg	607 908	890 277	1 023 999	962 536	868 255
Bulgaria	28 486	36 360	75 425	76 231	91 831
Croatia	6 046	6 303	6 472	7 941	16 423
Cyprus	380	487	299	154	184
Czech Republic	12 791	15 466	14 034	16 895	22 962
Denmark	34 441	20 987	13 056	14 117	19 572
Estonia	...	907	964	1 058	1 090
Finland	1 207 343	1 305 240	1 301 806	1 144 335	1 261 699
France	386 197	325 358	349 353	338 848	320 425
Germany	750 621	771 902	774 307	803 001	809 329
Greece	43 586	52 833	56 380	54 293	68 083
Hungary	30 130	28 472	23 417	33 075	25 282
Irish Republic	20 919	19 186	22 213	22 764	19 647
Italy	952 526	947 116	939 832	956 948	978 378
Latvia	4 933	4 962	5 096	5 016	5 422
Lithuania	...	577	701	802	1 399
Macedonia	7 696	6 240	6 966	19 414	9 797
Netherlands	444 622	560 878	646 638	564 518	627 768
Norway	234 592	241 975	237 725	250 879	241 976
Poland	77 155	81 181	89 139	90 931	94 257
Portugal	125 201	135 681	124 508	143 943	137 656
Romania	71 628	82 981	71 987	55 653	54 862
Slovakia	111 841	88 513	76 440	94 705	100 551
Slovenia	27 112	29 449	28 782	25 928	24 389
Spain	792 920	999 504	1 209 303	1 366 226	1 506 142
Sweden	437 528	467 111	452 215	480 358	451 919
Switzerland	37 298	45 012	41 350	37 368	41 481
Turkey	149 559	197 684	218 838	265 530	190 924
United Kingdom	58 993	72 719	126 501	84 750	198 524

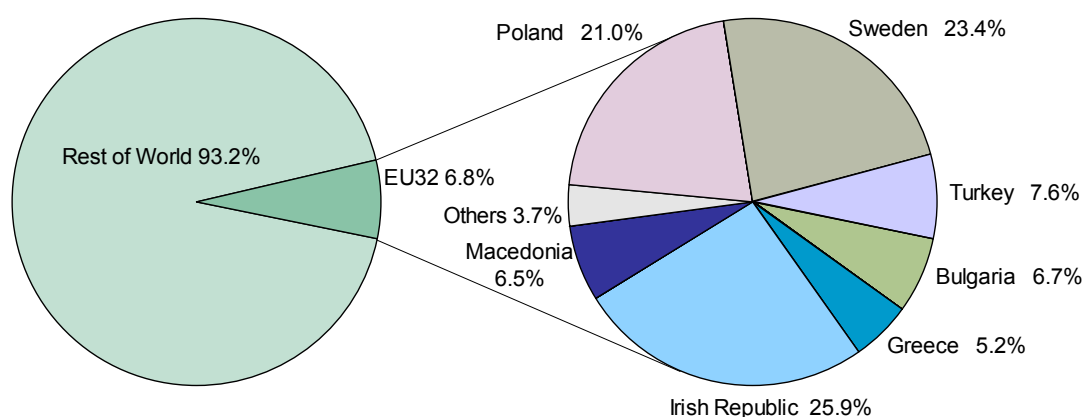
Kaolin - EU32 trade in 2006



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 2006 (36%), although many countries refine this metal. In the EU32 the largest mine producer of lead was the Republic of Ireland (26%) and the largest producers of refined lead, based on imported materials and recycling, were Germany (21%) and the UK (20%).
- Despite environmental and health concerns consumption of lead has increased recently, resulting in a minor supply deficit. The price of lead increased gradually during 2006. The LME price was £620/tonne in January; it fell to £515/tonne in June and increased to £910/tonne in December.

EU32 Mine production of lead 2006

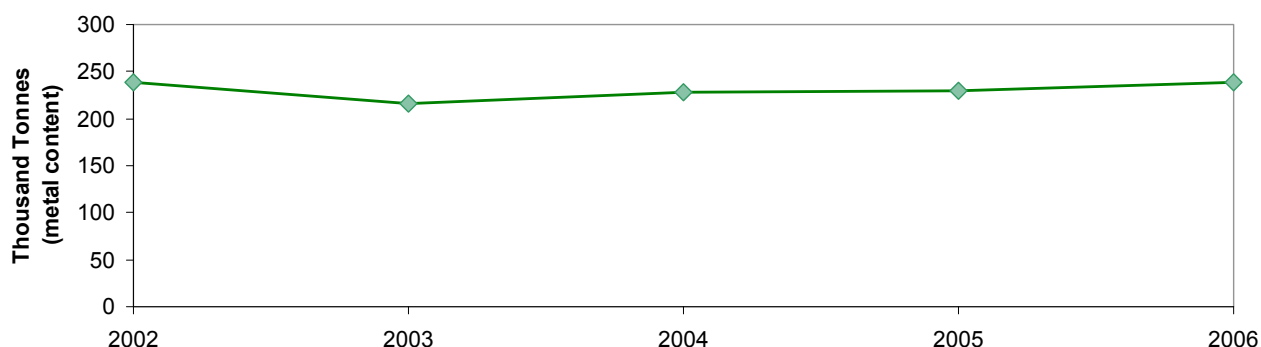


Mine production of lead

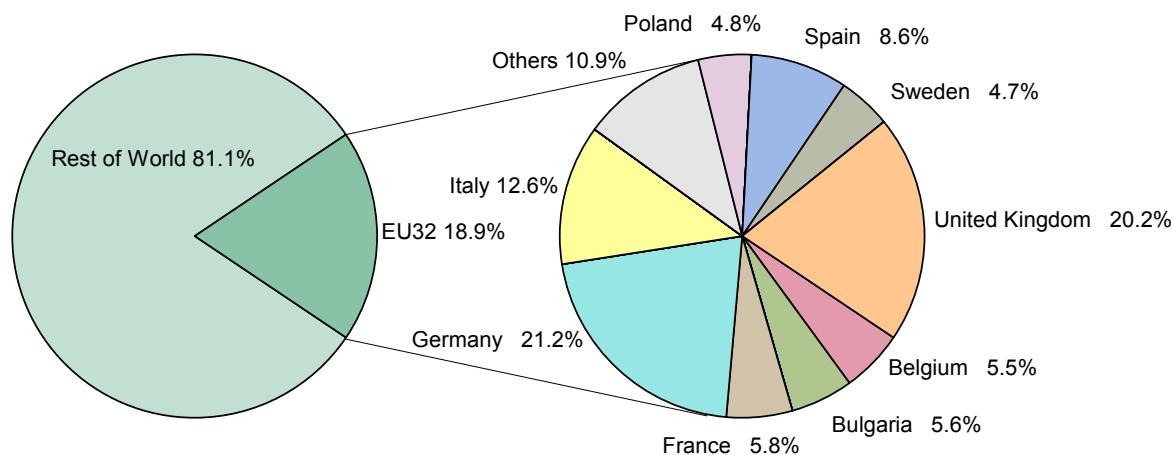
tonnes (metal content)

Country	2002	2003	2004	2005	2006
Bulgaria	19 800	19 950	*19 400	*18 500	*16 000
Greece	29 300	2 000	—	3 000	12 400
Irish Republic	41 700	50 300	63 800	72 200	61 800
Italy	3 200	2 700	800	*800	*800
Macedonia	3 528	—	—	—	15 582
Poland	56 600	54 700	52 700	50 900	50 000
Romania	17 500	15 747	18 297	11 610	7 500
Spain	6 171	1 765	—	—	—
Sweden	42 954	50 962	54 347	60 445	55 644
Turkey	17 277	17 483	18 792	11 341	18 000
United Kingdom	*700	*700	*500	*500	*500
EU32 Total	238 700	216 300	228 600	229 300	238 200

EU32 Mine production of lead 2002 - 06



EU32 Production of refined lead



Production of refined lead

tonnes

Country	2002	2003	2004	2005	2006
Austria	*23 000	*20 000	*26 000	*24 000	*22 000
Belgium	88 000	65 000	62 000	97 200	84 000
Bulgaria	67 500	74 000	69 000	93 500	84 300
Czech Republic	*29 000	*26 000	*25 000	26 000	25 000
Estonia	—	—	3 000	*7 000	*7 000
France	203 400	91 000	89 000	*90 000	*88 000
Germany	379 905	356 900	359 200	341 700	321 500
Greece	*6 000	*6 000	*6 000	*6 000	*6 000
Irish Republic	6 600	7 800	19 600	22 500	21 700
Italy	196 000	214 100	201 600	211 000	190 500
Macedonia	11 934	6 357	3 591	—	—
Netherlands	18 000	17 000	17 000	17 000	16 000
Poland	65 800	74 300	73 900	81 000	73 000
Portugal	*6 000	*6 000	*6 000	*6 000	*5 000
Romania	23 000	28 000	32 590	32 903	29 333
Slovenia	15 400	15 000	*15 000	15 000	15 000
Spain	115 552	99 100	105 600	110 000	131 000
Sweden	63 451	73 340	73 548	72 600	71 000
Switzerland	8 700	9 600	9 300	9 600	*9 600
Turkey	*9 000	*9 000	*9 000	*9 000	*9 000
United Kingdom	374 646	364 574	245 938	304 350	306 737
World Total	1 711 000	1 563 000	1 452 000	1 576 000	1 516 000

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

EU32 Production of refined lead 2002 - 06



Lead

Exports of lead

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought	7 831	8 988	14 504	10 746	13 129
Scrap	145	65	252	1 514	1 027
Belgium-Luxembourg					
Ores & concentrates	104 187	84 545	109 580	96 610	113 576
Unwrought	84 303	104 827	93 316	110 372	98 077
Scrap	6 981	6 307	12 736	9 142	15 071
Bulgaria					
Ores & concentrates	400	13 029	10 370	6 165	10 900
Unwrought	58 789	61 799	54 686	69 825	65 400
Croatia					
Scrap	749	750	853	794	1 057
Cyprus					
Scrap	1 874	2 073	1 711	1 212	129
Czech Republic					
Unwrought	5 724	7 112	7 230	8 665	10 359
Scrap	3 346	2 926	3 059	4 948	6 648
Denmark					
Unwrought	3 048	3 011	1 930	1 312	1 071
Scrap	1 338	1 885	1 805	3 067	2 954
Estonia					
Unwrought	...	412	3 846	7 774	6 054
Scrap	437	520	1 414	153	184
Finland					
Scrap	338	159	884	3 589	2 421
France					
Unwrought	60 095	12 868	6 182	6 920	25 933
Scrap	23 473	27 789	27 003	24 683	21 854
Germany					
Ores & concentrates	22 024	31 512	3 423	102	475
Unwrought	169 142	129 550	120 361	122 120	126 790
Scrap	13 646	15 468	12 412	11 064	8 390
Greece					
Unwrought	1 712	107	...	4 017	3 292
Hungary					
Scrap	1 421	1 237	2 377	2 987	3 286
Irish Republic					
Ores & concentrates	21 069	56 141	84 115	92 813	129 748
Italy					
Unwrought	20 987	26 711	28 295	18 244	8 143
Scrap	4 792	5 652	1 262	2 477	3 806
Lithuania					
Scrap	931	3 239	6 613	7 848	6 118
Macedonia					
Ores & concentrates	8 707	4 172	...	233	16 371
Unwrought	12 432	7 458	1 135	54	...
Scrap	47	370	1 468	935	2 511
Netherlands					
Ores & concentrates	208	1 526	2 730	17 161	27 068
Unwrought	1 263	23 942	34 426	24 382	11 133
Scrap	5 670	8 732	12 395	11 950	16 067
Norway					
Scrap	5 188	987	601	1 013	892
Poland					
Ores & concentrates	77 493	86 395	94 126	92 226	73 902
Unwrought	38 602	42 518	39 287	44 008	68 635
Scrap	2 107	2 408	963	1 652	2 168
Portugal					
Unwrought	3 769	2 367	1 988	1 269	2 018
Scrap	2 733	3 502	3 452	4 127	9 471
Romania					
Ores & concentrates	36 089	30 390	25 092	25 012	18 104
Unwrought	16 544	23 388	20 894	22 120	18 786
Scrap	1 518	964	1 689	3 295	4 389
Slovakia					
Unwrought	984	3 124	(b) *2 000	1 662	1 614

Lead

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Slovenia					
Unwrought	3 757	5 136	4 701	5 818	6 524
Spain					
Ores & concentrates	13	5 057	6 057	2	29
Unwrought	9 458	6 219	8 301	9 805	7 830
Scrap	6 797	7 028	6 399	9 128	6 460
Sweden					
Ores & concentrates	63 204	59 340	60 105	62 155	50 854
Unwrought	61 079	71 217	68 215	70 042	76 777
Scrap	424	237	554	307	703
Switzerland					
Unwrought	7 160	7 086	5 407	4 657	7 966
Scrap	2 565	2 267	1 320	2 932	3 124
Turkey					
Ores & concentrates (a)	42 390	18 619	27 179	24 590	7 792
Unwrought	4 728	1 484	6 190	2 875	749
United Kingdom					
Unwrought	101 832	61 682	34 859	52 593	89 271
Unwrought alloys	57 249	44 091	31 148	38 806	48 589
Scrap	17 116	28 569	32 934	27 248	1 859

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	2002	2003	2004	2005	2006
Austria					
Unwrought	44 878	37 927	39 533	23 062	29 184
Scrap	1 844	2 672	2 192	1 068	890
Belgium-Luxembourg					
Ores & concentrates	115 471	80 203	117 597	134 300	120 136
Unwrought	27 490	20 874	27 042	18 807	15 081
Scrap	25 527	28 028	26 904	26 699	41 070
Bulgaria					
Ores & concentrates	52 368	64 751	74 163	83 398	100 736
Unwrought	2 218	1 759	5 558	10 723	11 305
Scrap	2 800	816	441	1 227	1 346
Croatia					
Unwrought	1 635	988	1 460	1 492	1 415
Cyprus					
Unwrought	2 367	918	317	172	245
Czech Republic					
Unwrought	56 941	55 699	73 472	69 135	67 850
Scrap	184	908	1 348	4 147	4 411
Denmark					
Unwrought	2 073	816	2 072	2 135	2 322
Scrap	2 489	2 237	2 366	2 288	2 209
Finland					
Unwrought	3 032	2 753	2 582	2 854	1 571
France					
Ores & concentrates	146 270	186	97	253	186
Unwrought	80 812	103 439	91 979	109 426	121 930
Scrap	44 079	30 508	34 513	33 818	32 705
Germany					
Ores & concentrates	228 055	193 156	202 309	171 533	161 113
Unwrought	158 048	159 860	112 975	108 533	134 805
Scrap	19 472	9 075	11 757	15 419	18 141

Lead

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Greece					
Unwrought	5 309	4 633	28 460	5 112	5 401
Scrap	3 349	5 496	1 284	85	138
Hungary					
Unwrought	6 552	7 148	4 545	5 028	4 063
Irish Republic					
Unwrought	35 376	28 438	26 896	30 999	28 386
Scrap	9 985	7 798	18 290	28 530	31 794
Italy					
Ores & concentrates	98 430	86 985	99 015	107 685	65 610
Unwrought	111 214	88 333	114 546	72 181	112 069
Scrap	4 737	3 669	3 877	3 333	4 097
Macedonia					
Unwrought	168	411	1 150	1 146	857
Netherlands					
Unwrought	17 070	66 405	83 391	36 051	24 272
Scrap	8 824	8 034	7 818	9 700	17 508
Norway					
Unwrought	3 971	2 024	2 970	4 882	4 749
Poland					
Unwrought	43 821	47 030	50 189	53 095	56 504
Portugal					
Unwrought	16 952	15 624	18 885	21 198	17 523
Romania					
Ores & concentrates	32 043	14 899	26 920	31 085	13 288
Unwrought	2 811	1 111	1 667	1 620	1 400
Slovenia					
Unwrought	12 629	13 604	12 854	10 262	8 897
Scrap	783	538	1 223	1 382	2 946
Spain					
Unwrought	178 929	129 925	154 828	174 618	147 423
Scrap	19 914	21 943	27 866	30 499	30 625
Sweden					
Ores & concentrates	15 073	19 693	26 142	5 085	10 476
Unwrought	5 023	4 190	6 088	6 098	17 679
Scrap	1 970	2 463	4 062	3 538	3 101
Switzerland					
Unwrought	5 943	6 047	7 831	8 067	9 185
Turkey					
Unwrought	64 513	71 665	71 606	71 680	56 792
United Kingdom					
Ores & concentrates (a)	*30 000	*5 000	—	—	...
Unwrought , base bullion (b)	184 060	168 228	127 970	173 910	120 871
Unwrought, other	32 468	28 132	51 382	31 347	53 892
Scrap	4 946	6 043	6 278	3 898	5 914

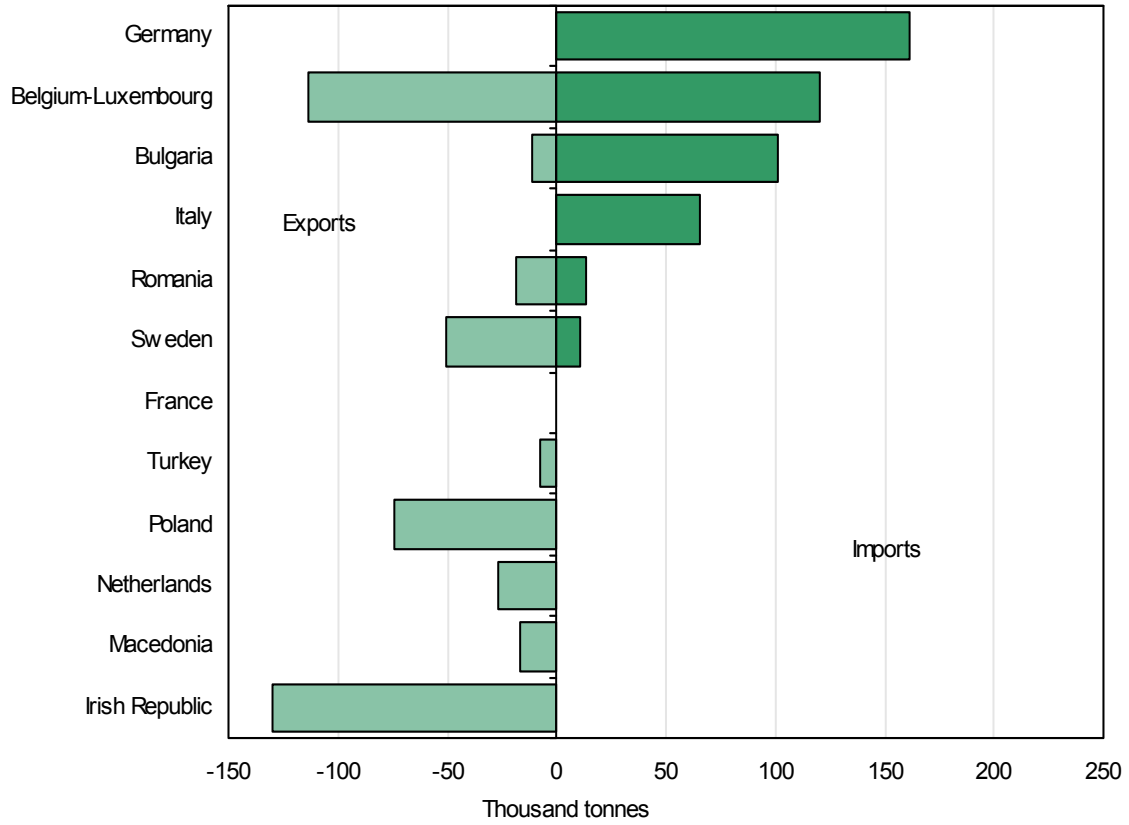
Note(s) :-

- (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

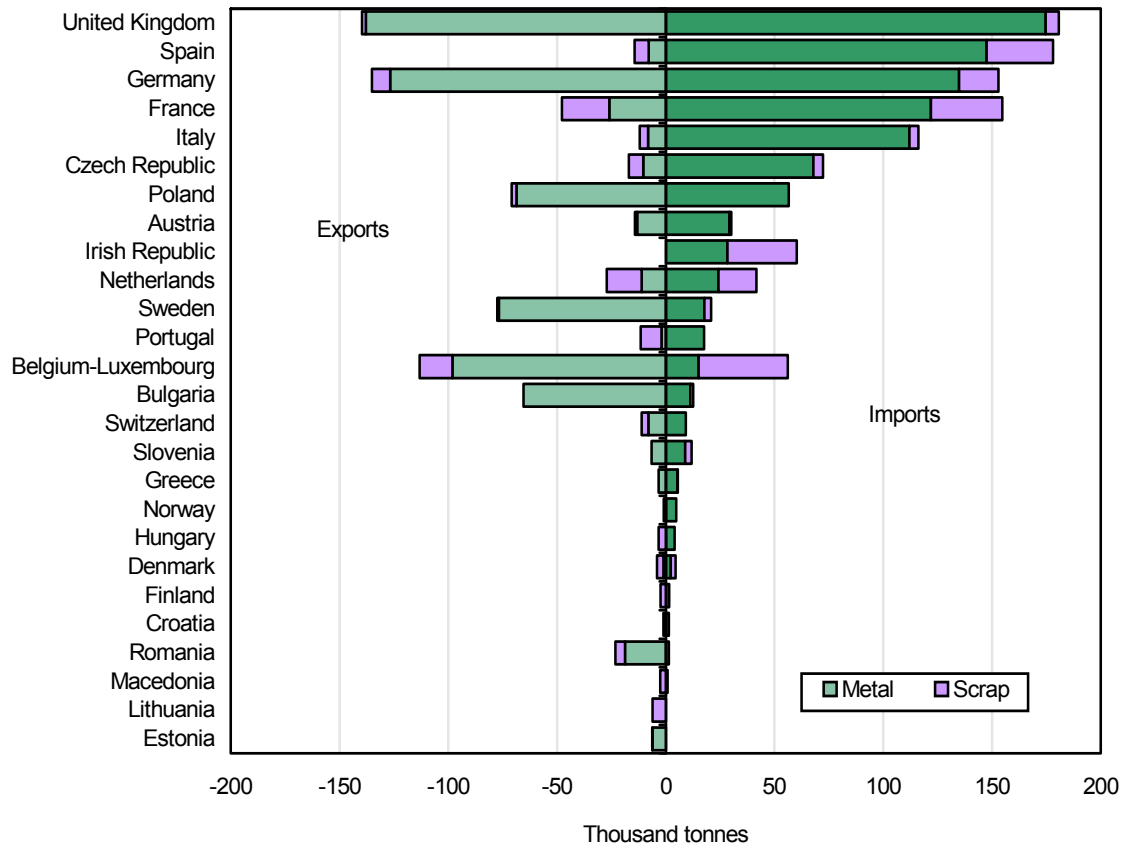
(a) Pb content

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

Lead ore - EU32 trade in 2006



Lead - EU32 trade in 2006



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 2006 (approximately 55% of world production). Chile was the largest producer by lithium content (53% of world production). In the EU32 Portugal and Spain are the only countries producing lithium minerals.
- The lithium minerals spodumene and petalite, with lithium carbonate, are the usual traded forms. Prices were stable throughout 2006 ranging between US\$165–US\$490/tonne for mineral concentrates and US\$2.7–US\$3/lb for carbonate.

Production of lithium minerals

tonnes

Country	2002	2003	2004	2005	2006
Portugal					
Lepidolite	16 325	24 606	28 696	26 185	28 497
Spain					
Lepidolite	6 800	6 333	3 226	4 000	6 000

Exports of lithium

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Oxides	548	982	1 837	1 545	1 236
Carbonate	3 935	4 000	10 053	4 999	5 107
France					
Carbonate	2 955	2 382	1 166	462	12
Germany					
Oxides	532	649	625	...	...
Carbonate	1 768	2 484	2 660	2 991	2 907
Italy					
Oxides	58	47	11	6	6
Carbonate	138	162	206	269	347
Netherlands					
Oxides	203	190	187	115	154
Carbonate	104	89	199	224	405
Slovenia					
Carbonate	68	64	89	96	96
Spain					
Carbonate	639	373	3 157	1 123	554
Switzerland					
Oxides	53	78	80	78	69
United Kingdom					
Oxides	186	169	285	125	94
Carbonate	147	193	160	203	271

Imports of lithium

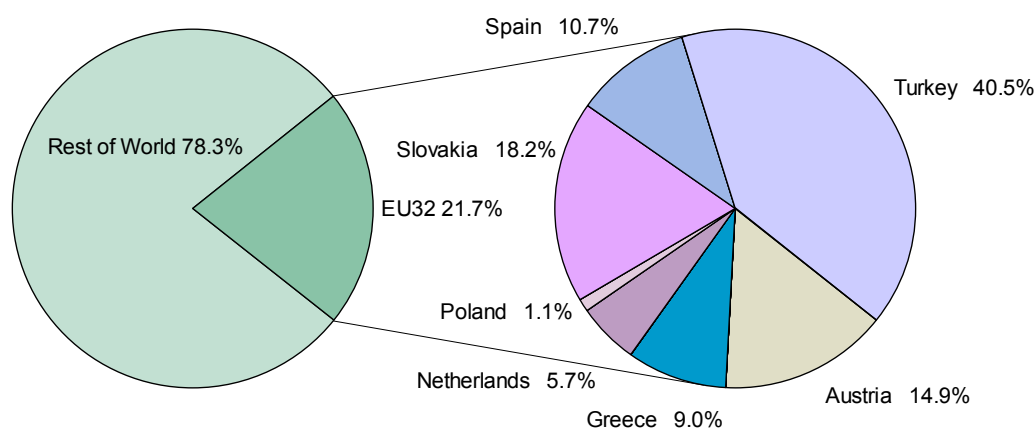
tonnes

Country	2002	2003	2004	2005	2006
Austria					
Carbonate	113	118	115	182	199
Belgium-Luxembourg					
Oxides	1 159	1 197	2 250	2 014	1 201
Carbonate	5 879	5 086	6 108	6 205	5 357
Czech Republic					
Carbonate	45	45	76	71	118
Denmark					
Carbonate	90	98	93	81	164
Finland					
Carbonate	48	55	53	77	85
France					
Oxides	329	347	407	482	369
Carbonate	1 612	1 381	1 484	1 392	1 186
Germany					
Oxides	3 198	4 405	3 699	4 209	4 260
Carbonate	4 825	6 018	7 189	8 101	7 948
Italy					
Oxides	209	237	148	223	159
Carbonate	1 581	1 686	1 505	2 263	1 646
Netherlands					
Oxides	217	237	270	178	359
Carbonate	854	956	1 081	1 171	1 356
Poland					
Oxides	69	74	132	136	266
Carbonate	55	56	117	128	252
Slovenia					
Oxides	80	88	127	116	115
Spain					
Oxides	357	436	329	480	573
Carbonate	1 046	983	759	1 553	828
Sweden					
Oxides	155	113	162	176	186
Carbonate	179	186	208	259	215
Switzerland					
Oxides	97	89	89	81	112
Turkey					
Oxides	136	120	179	183	168
Carbonate	157	278	417	433	440
United Kingdom					
Oxides	409	554	498	446	385
Carbonate	626	687	490	657	650

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 21 countries are believed to have produced magnesite in 2006, of which China was the largest (approximately 57% of world production). The largest EU32 producer was Turkey (40%).
- In 2006, Greek raw magnesite (FOB) was around €50–55 and Chinese dead burned, 94–95% MgO, lump, FOB China traded at US\$172–175/tonne.

EU32 Production of magnesite 2006



Production of magnesite

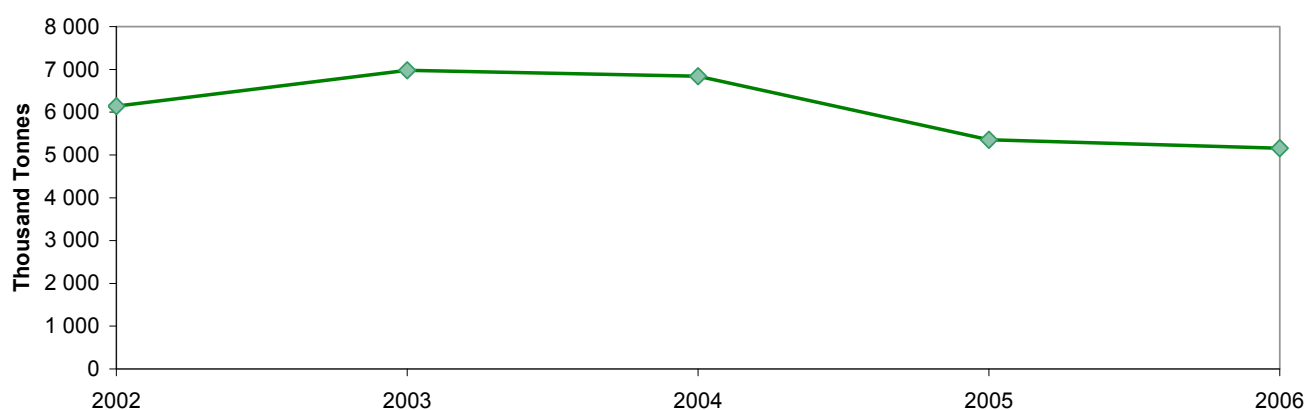
Country	2002	2003	2004	2005	2006
Austria	728 235	766 525	715 459	693 754	769 188
Greece	553 700	542 800	552 300	471 000	463 277
Netherlands (a)	226 000	261 194	245 495	285 336	293 006
Poland	22 100	27 200	57 900	55 300	*56 000
Slovakia	929 630	1 640 900	965 900	920 100	941 100
Spain	637 024	517 030	567 504	556 129	*550 000
Turkey	3 044 440	3 224 278	3 732 952	2 372 206	2 088 033
EU32 Total	6 141 000	6 980 000	6 838 000	5 354 000	5 161 000

Note(s):-

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

(a) Chloride produced from solution mining

EU32 Production of magnesite 2002 - 06



Exports of magnesite and magnesia

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Magnesite	5 489	2 401	642	1 338	1 231
Magnesia	44 729	50 263	73 037	59 283	45 311
Belgium-Luxembourg					
Magnesite	440	7 061	512	575	1 520
Magnesia	73 182	134 268	53 755	52 665	75 011
Czech Republic	59	1 924	3 790	6 273	4 099
Denmark	...	...	165	232	307
France					
Magnesite	399	507	241	230	241
Magnesia	14 126	23 037	37 930	45 661	47 832
Germany					
Magnesite	186	878	218	61	132
Magnesia	66 559	45 840	66 422	81 021	93 286
Greece					
Magnesite	35 594	40	—	—	—
Magnesia	94 668	65 673	130 910	140 083	125 783
Irish Republic					
Magnesite	...	52	6	...	5 991
Magnesia	65 483	65 549	69 105	82 417	46 656
Italy					
Magnesite	3 170	2 141	2 868	3 489	3 003
Magnesia	52 206	17 414	9 779	12 130	12 174
Netherlands					
Magnesite	2 944	12 352	8 704	1 452	4 750
Magnesia	438 407	384 711	431 175	492 077	465 555
Poland	...	34	796	1 208	654
Slovakia					
Magnesite	2 093	786	2 294	636	...
Magnesia	341 126	395 689	404 448	385 312	394 826
Spain					
Magnesite	24 152	23 640	25 557	901	19 635
Magnesia	154 661	158 844	185 811	189 005	179 046
Turkey					
Magnesite	52 446	45 534	39 670	41 353	5 880
Magnesia	213 384	196 613	230 675	198 081	84 322
United Kingdom					
Magnesite	337	34	49	87	26
Magnesia	26 460	26 248	24 796	20 077	19 036

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	2002	2003	2004	2005	2006
Austria					
Magnesite	13 115	12 935	4 814	17 019	1 653
Magnesia	20 545	9 325	181 050	188 449	213 760
Belgium-Luxembourg					
Magnesite	2 547	7 167	505	767	3 872
Magnesia	73 514	151 590	65 125	84 730	152 330
Bulgaria	6 544	5 815	6 354	8 500	6 551
Croatia	949	1 006	1 479	1 647	1 564
Czech Republic					
Magnesite	3 516	5 528	5 973	6 860	5 320
Magnesia	32 090	34 377	42 226	43 277	51 674
Denmark					
Magnesite	1 085	2 499	1 984	2 002	444
Magnesia	3 731	2 297	2 575	4 560	4 478
Finland					
Magnesia	10 159	17 096	11 567	16 476	9 540

Magnesite and Magnesia

Imports continued

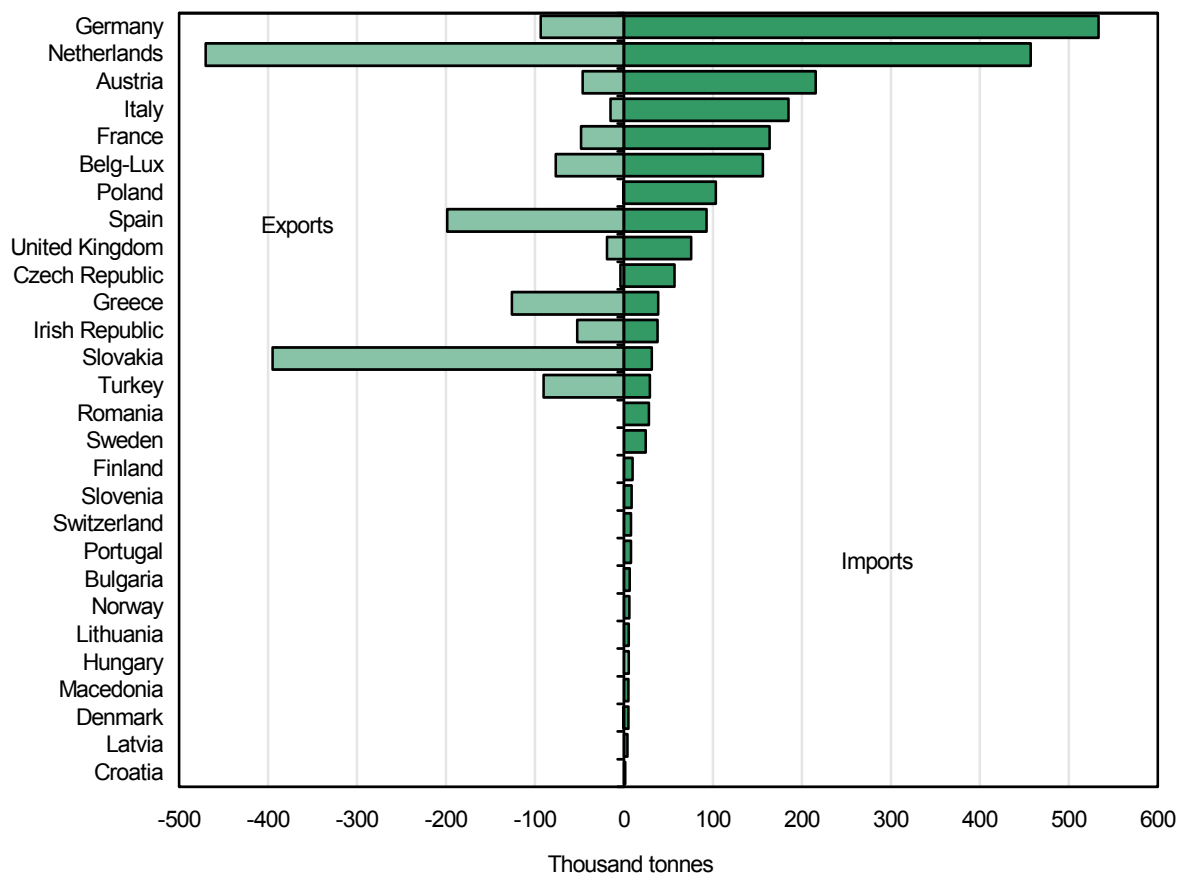
tonnes

Country	2002	2003	2004	2005	2006
France					
Magnesite	9 434	3 193	1 701	3 427	2 509
Magnesia	146 526	149 468	148 780	161 488	161 029
Germany					
Magnesite	19 665	7 724	4 684	6 353	13 794
Magnesia	453 680	348 042	348 766	515 089	519 576
Greece					
Magnesite	19 308	23 470	20 579	14 250	15 645
Magnesia	7 442	10 427	11 985	17 232	22 763
Hungary	32 296	10 463	7 003	6 251	5 435
Irish Republic					
Magnesite	1 500	15 449	25 886	12 653	1 967
Magnesia	59 905	43 802	49 664	49 466	35 800
Italy					
Magnesite	18 687	17 326	9 429	23 536	10 862
Magnesia	120 820	129 672	163 273	161 432	174 000
Latvia	3 021	3 518	5 297	3 344	4 092
Lithuania					
Magnesia	...	5 229	5 448	5 398	5 513
Macedonia					
Magnesia	1 559	1 436	1 288	1 384	5 005
Netherlands					
Magnesite	5 758	13 139	20 619	3 057	3 007
Magnesia	362 706	392 299	644 428	558 764	454 271
Norway					
Magnesite	3 148	3 736	2 587	2 125	4 265
Magnesia	130	190	1 643	500	1 784
Poland	73 266	77 830	82 164	71 774	103 380
Portugal					
Magnesite	909	885	969	1 012	1 269
Magnesia	6 078	5 855	4 808	5 998	6 544
Romania	35 478	23 255	26 209	27 243	27 963
Slovakia	32 571	31 606	27 698	23 379	31 227
Slovenia	9 377	9 732	9 560	9 899	8 478
Spain					
Magnesite	1 303	3 608	2 901	2 348	3 937
Magnesia	101 620	367 117	102 418	103 747	88 898
Sweden					
Magnesia	26 875	28 074	29 455	21 293	24 610
Switzerland					
Magnesite	228	225	294	168	394
Magnesia	4 521	5 744	6 538	6 708	7 506
Turkey					
Magnesia	50 238	56 000	38 084	52 432	29 148
United Kingdom					
Magnesite	9 252	20 287	11 187	13 896	10 644
Magnesia	98 075	82 100	83 539	78 843	64 896

Note(s) :-

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

Magnesite and magnesia - EU32 trade in 2006

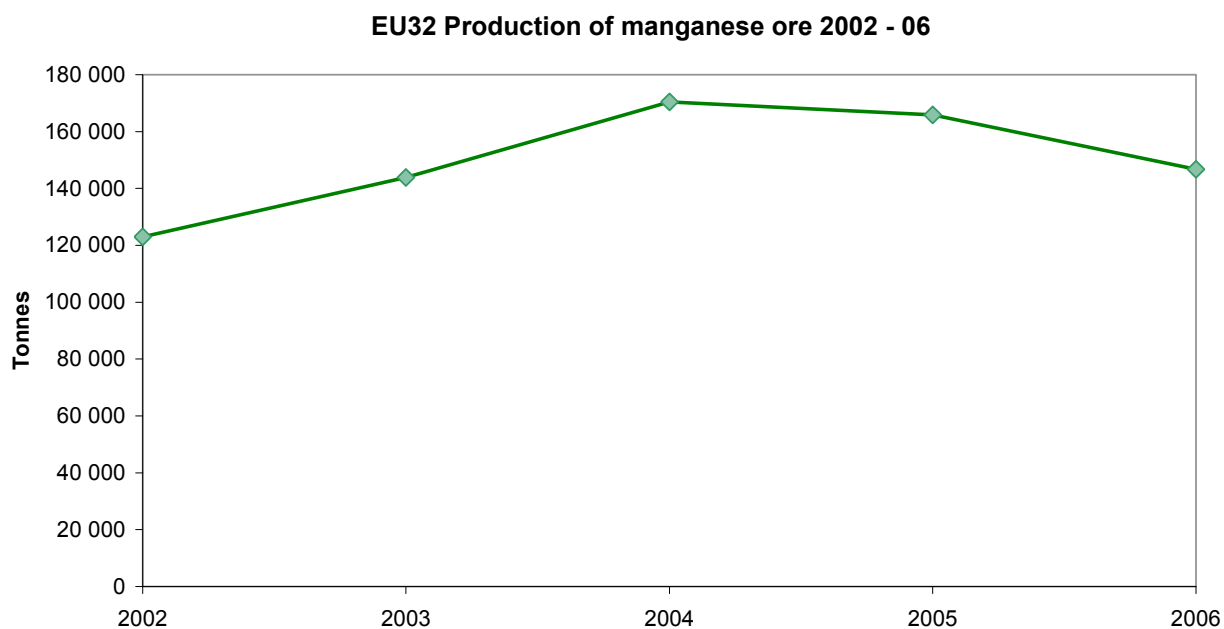


Manganese ore

- 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 25 countries. China is the largest producer (19%). Production of manganese in the EU32 is limited and Romania is the largest producer (approximately 48%).
- Manganese ore, ferro-manganese, electrolytic manganese dioxide and manganese metal are the chief forms in international trade. During 2006 prices for standard ferro-manganese (78% Mn, 7.5% C) increased considerably from around US\$650/tonne to US\$1800/tonne. Manganese metal (electrolytic manganese flake) ranged in price from around US\$1225/tonne–US\$1640/tonne.

Production of manganese ore

Country	2002	2003	2004	2005	2006
Bulgaria	4	4 200	27 800	38 500	20 500
Hungary	43 000	48 000	49 000	50 000	50 000
Italy	867	763	714	632	...
Romania	59 148	72 931	79 130	72 000	70 910
Turkey	20 000	18 000	13 751	4 751	...
EU32 Total	123 000	144 000	170 000	166 000	147 000



Exports of manganese

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	29 058	18 923	11 575	5 470	306
Belgium-Luxembourg					
Ores & Concentrates	16 949	13 476	11 300	10 648	5 138
Metal	3 216	3 091	1 377	1 826	7 045
Bulgaria					
Ores & concentrates	...	6 402	42 122	53 559	25 595
Estonia					
Metal	923	1 320	...	...	142
France					
Ores & concentrates (a)	413 461	332 067	272 815	139 723	303 881
Metal	168	424	745	324	415
Germany					
Metal	11 548	10 703	12 261	17 824	19 757
Italy					
Metal	120	37	113	241	298
Macedonia					
Ores & concentrates	...	71 052	...	...	5 117
Netherlands					
Ores & concentrates	...	12 041	15 143	14 903	...
Metal	3 869	7 365	12 548	13 585	16 739
Norway					
Ores & concentrates	3 070	...	105	1 410	7 880
Slovenia					
Metal	104	185	143	2 584	228
Spain					
Ores & concentrates	1 208	855	989	776	1 336
Metal	5 727	4 791	6 117	6 651	5 827
Sweden					
Metal	425	352	196	143	176
Turkey					
Ores & concentrates	5 655	...	12 817	955	2 466
United Kingdom					
Metal (b)	*4 300	*5 500	*3 100	*3 000	*1 900

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	2002	2003	2004	2005	2006
Austria					
Metal	18 223	10 024	6 497	8 707	12 059
Belgium-Luxembourg					
Ores & concentrates	72 216	79 645	73 953	66 840	65 462
Metal	5 413	4 480	2 466	4 150	10 114
Bulgaria					
Ores & concentrates	1 125	234 401	46 768	13 631	17 367
Croatia					
Metal	57	50	93	93	89
Czech Republic					
Ores & concentrates	11 507	11 966	11 663	13 820	14 335
Metal	376	386	593	619	674
Denmark					
Metal	115	152	164	157	161
Estonia					
Metal	155	1 201	401	552	909

Manganese

Imports continued

tonnes

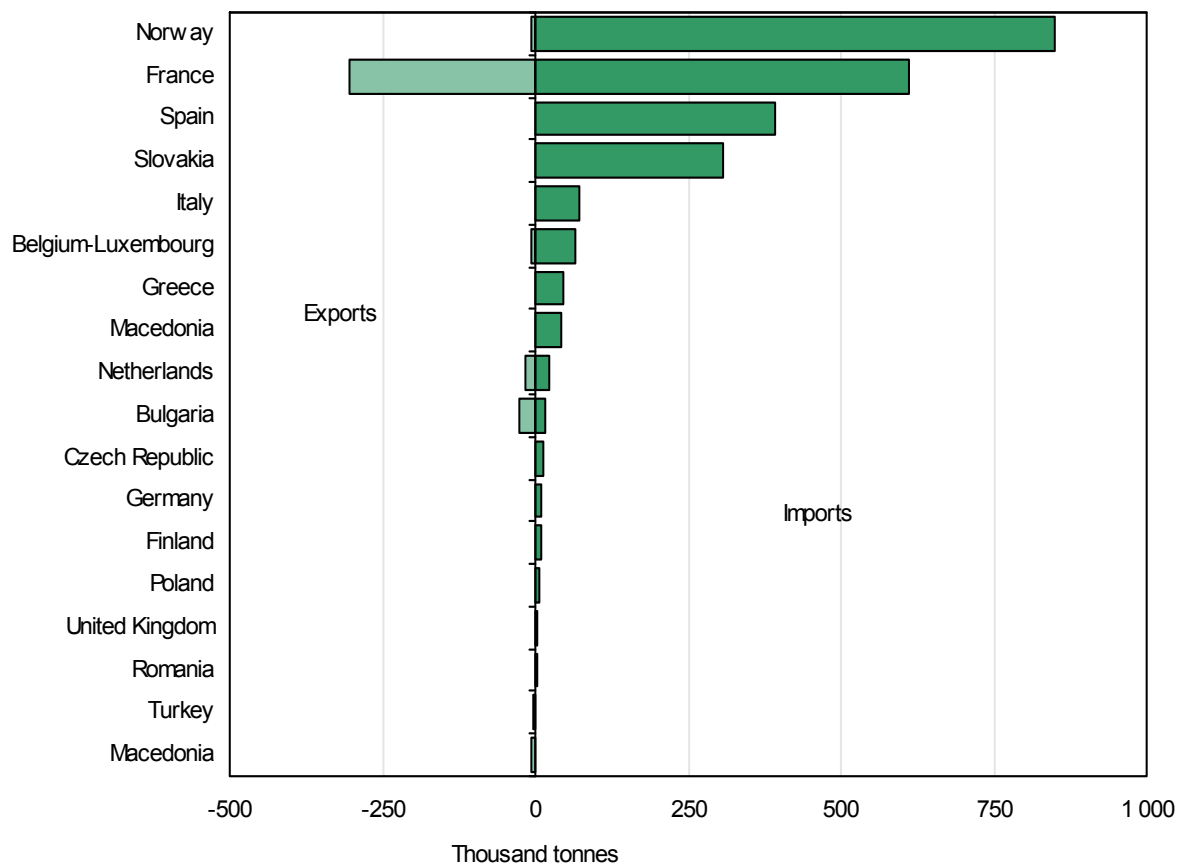
Country	2002	2003	2004	2005	2006
Finland					
Ores & concentrates	36 014	9 983	20 381	28 335	10 433
Metal	997	717	547	753	2 182
France					
Ores & concentrates (a)	968 498	892 176	626 061	615 884	611 043
Metal	8 693	7 613	8 851	11 039	11 131
Germany					
Ores & concentrates (a)	6 629	6 917	8 034	7 645	11 327
Metal	45 208	21 229	22 435	29 449	45 937
Greece					
Ores & concentrates	2	24 985	1	22 001	46 164
Metal	1 289	389	1 510	905	730
Hungary					
Metal	677	568	111	889	1 180
Irish Republic					
Ores & concentrates (a)	27 456	19 306	268	285	368
Metal	23	9	5	5	15
Italy					
Ores & concentrates (a)	111 716	100 796	206 249	76 278	72 465
Metal	4 723	3 673	4 970	8 494	35 391
Lithuania					
Metal	15 375	136	...	...	...
Macedonia					
Ores & concentrates	...	...	...	28 977	44 040
Netherlands					
Ores & concentrates	7 086	11 136	14 558	35 936	22 495
Metal	4 533	9 112	14 347	61 240	22 162
Norway					
Ores & concentrates	660 348	803 971	1 132 985	1 172 711	849 729
Metal	2 155	3 069	3 610	2 976	3 531
Poland					
Ores & concentrates	14 597	10 037	205 290	38 845	6 017
Metal	821	432	652	499	1 155
Romania					
Ores & concentrates	209 891	380 043	534 014	357 327	3 134
Metal	230	297	303	427	1 000
Slovakia					
Ores & concentrates	186 061	176 511	257 331	273 270	308 417
Metal	121	147	...	146	193
Slovenia					
Metal	154	152	296	316	435
Spain					
Ores & concentrates	431 720	437 088	575 518	415 959	393 476
Metal	8 174	10 569	9 786	10 537	9 165
Sweden					
Ores & concentrates	98	91	62	119	72
Metal	6 660	3 618	2 641	2 632	2 380
Switzerland					
Metal	404	501	484	486	444
Turkey					
Metal	182	137	495	300	200
United Kingdom					
Ores & concentrates (a)	1 218	2 102	2 585	698	4 229
Metal	7 600	8 250	9 189	8 223	8 563

Note(s) :-

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

(a) Including manganiferous iron ore

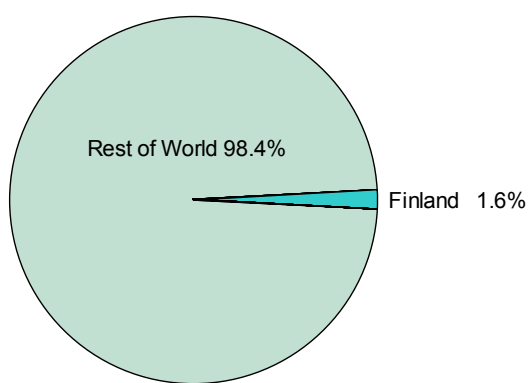
Manganese ores and concentrates - EU32 trade in 2006



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 nine countries commercially extracted mercury in 2006. 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 86% of total world output.
- Mercury prices increased considerably during 2006 due to curtailment of production resulting from problems at key operations and environmental concerns and increased demand. Reported prices for mercury dropped from US\$650–US\$750/flask (1 flask is approximately 76 lb) at the start of the year to the US\$450–500/flask range in December.

EU32 Production of mercury 2006



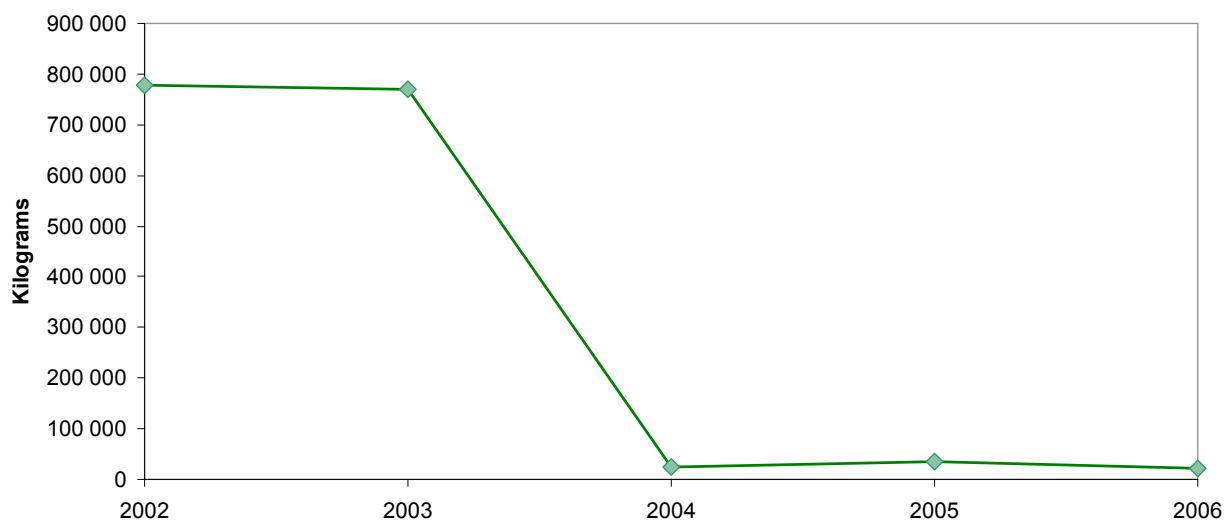
Production of mercury

Country	2002	2003	2004	2005	2006
Finland	50 600	25 000	23 500	34 200	22 820
Spain	726 139	745 260	—	—	—
EU32 Total	776 700	770 300	23 500	34 200	22 820

Note(s):-

(1) Several countries are believed to have unrecorded production of mercury from copper

EU32 Production of mercury 2002 - 06



Exports of mercury

kilograms

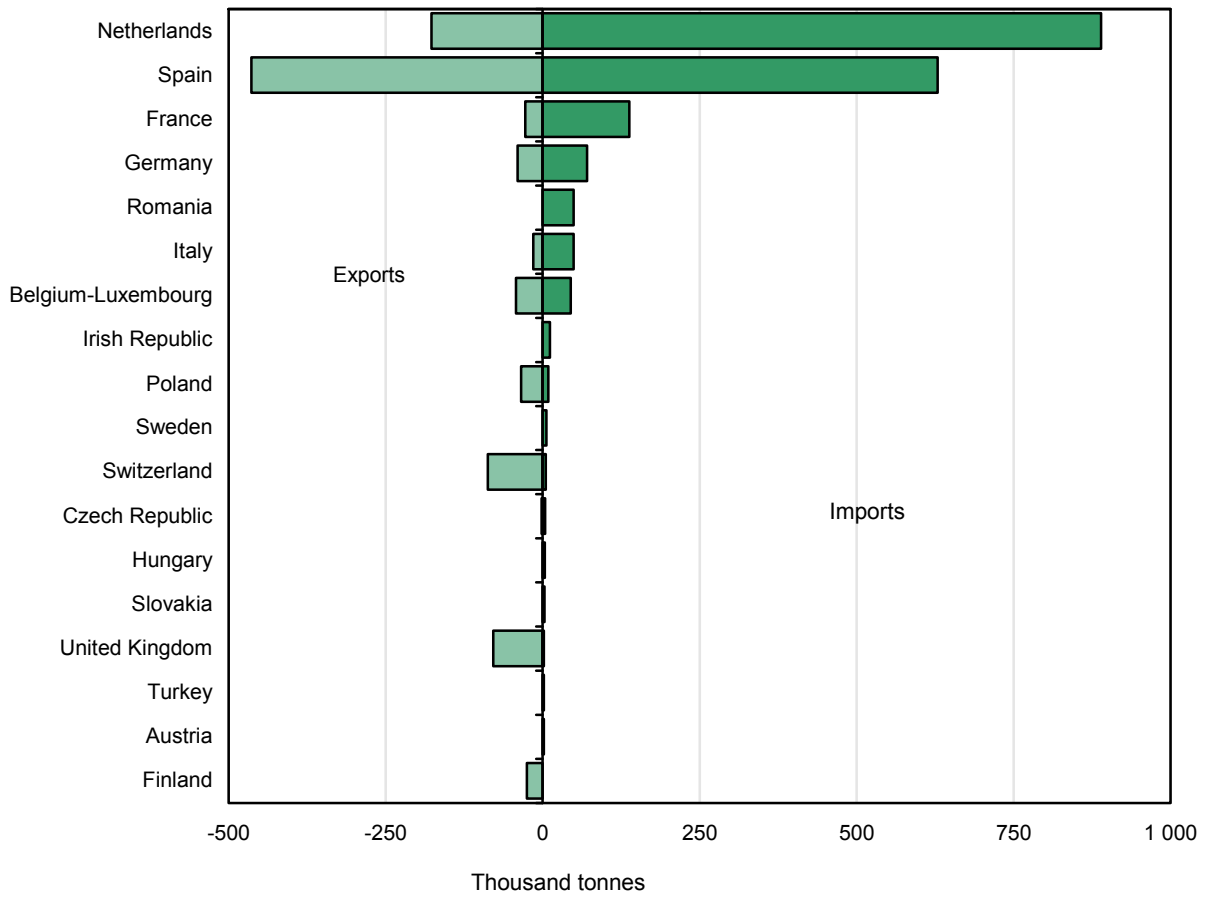
Country	2002	2003	2004	2005	2006
Austria	900	800	1 700	4 100	214
Belgium-Luxembourg	15 900	17 000	1 300	8 800	42 300
Czech Republic	16 542	9 970	22 172	8 200	1 700
Denmark	3 642	10 554	27 458	1 932	824
Estonia	2 476	2 500	...	3 400	—
Finland	54 859	25 530	23 462	32 090	24 859
France	7 100	6 800	93 800	15 400	27 300
Germany	59 500	48 900	55 500	36 200	40 000
Italy	274 624	20 153	6 952	18 244	14 820
Netherlands	344 400	105 100	183 998	188 220	176 670
Poland	24 000	...	2	3 000	33 900
Slovakia	1 188	2 437	0	6	—
Slovenia	1 312	15 826	7 327	1 395	0
Spain	820 527	836 784	596 739	581 653	463 954
Switzerland	36 900	7 793	316 631	171 790	87 136
United Kingdom	6 226	851	2 054	191 193	78 514

Imports of mercury

kilograms

Country	2002	2003	2004	2005	2006
Austria	5 700	4 000	3 900	1 600	2 000
Belgium-Luxembourg	22 600	29 200	54 700	18 600	44 800
Czech Republic	1 875	2 531	7 300	1 100	4 000
Denmark	796	260	403	2 901	129
Finland	158	214	554	28	38
France	25 200	57 900	299 200	202 600	138 100
Germany	19 900	39 500	80 600	36 200	70 600
Greece	291	11 617	187	954	933
Hungary	...	3 875	4 426	4 607	3 529
Irish Republic	1 008	11 604	61	72	11 804
Italy	15 389	27 140	135 119	32 471	49 335
Netherlands	517 600	143 200	616 057	670 022	889 199
Norway	99	38	42	65	66
Poland	21 976	3 875	4 456	15 700	9 200
Portugal	533	523	291	0	0
Romania	—	72	24 287	20 288	49 623
Slovakia	3 677	2 230	2 738	3 457	3 100
Spain	318 263	350 266	301 097	572 872	628 737
Sweden	4 004	3 022	4 000	3 000	6 000
Switzerland	18 901	9 354	9 704	5 846	5 333
Turkey	5 358	8 152	6 044	1 443	2 019
United Kingdom	23 302	29 673	27 875	32 306	2 128

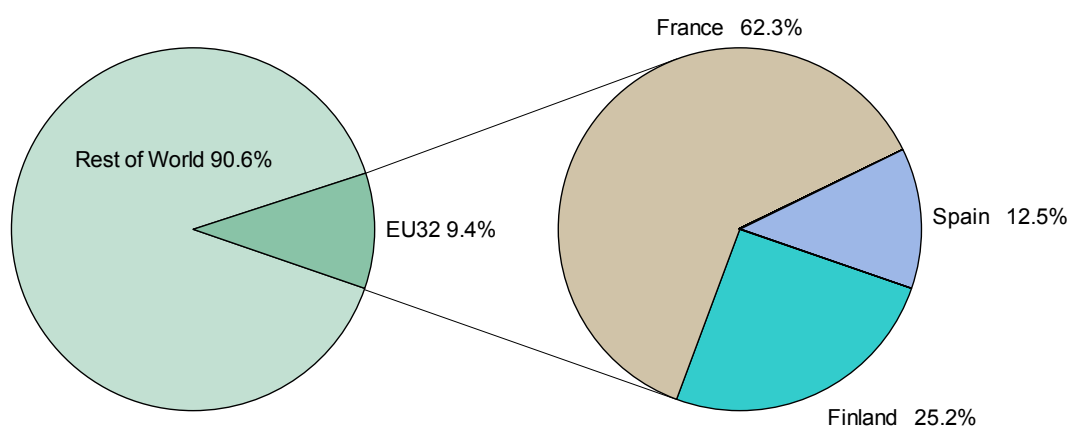
Mercury - EU32 trade in 2006



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 19 countries. Of these, China (30%) was the largest producer in 2006. Mica is produced in three EU32 countries, of which the largest producer is France (63%).
- Because of the wide variety of micas there are many trading categories that are very sensitive to quality. Prices ranged from US\$200–US\$1300/tonne in 2006.

EU32 Production of mica 2006



Production of mica

tonnes

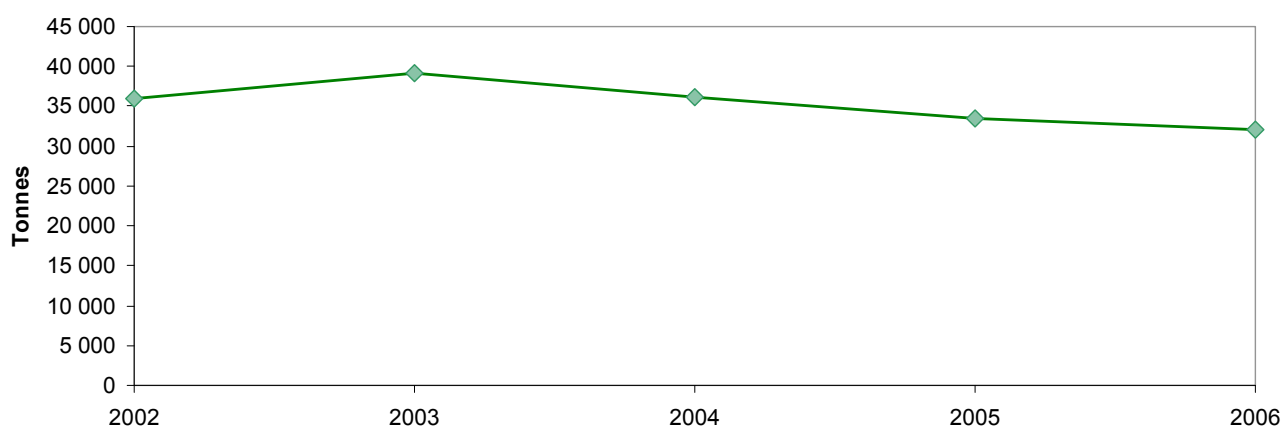
Country	2002	2003	2004	2005	2006
Finland	7 170	9 337	9 250	9 500	8 097
France (a)	17 000	18 000	19 000	*20 000	*20 000
Spain (a)	11 783	11 800	7 825	4 043	...
EU32Total	36 000	39 000	36 000	34 000	32 000

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

EU32 Production of mica 2002 - 06



Mica

Exports of mica

tonnes

Country	2002	2003	2004	2005	2006
Austria	3 512	3 767	3 917	4 915	4 102
Belgium-Luxembourg	915	1 907	1 635	3 226	3 225
Finland	5 514	8 099	7 511	5 745	6 603
France	4 387	114 464	14 323	13 469	12 845
Germany	2 018	2 457	3 655	3 656	4 039
Greece	179	4 239	2 769	5 653	9 613
Italy	667	371	623	738	1 159
Netherlands	4 384	5 359	6 084	2 912	2 735
Norway	2 155	2 413	2 076	2 003	2 157
Spain	2 001	3 996	3 075	2 591	4 457
Sweden	89	51	58	83	64
Turkey	503	546	15 975	565	430
United Kingdom	4 089	4 774	9 377	4 050	4 593

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	2002	2003	2004	2005	2006
Austria	599	899	645	512	615
Belgium-Luxembourg					
Unmanufactured	276	89	1 588	913	470
Ground	1 359	3 223	4 311	2 996	2 646
Czech Republic	926	764	879	819	1 629
Denmark	408	305	369	413	1 596
Finland	2 621	3 664	2 861	2 998	2 874
France					
Ground (a)	1 241	3 182	1 358	1 534	2 674
Waste	2 001	1 043	546	1 423	—
Germany					
Unmanufactured	227	205	237	89	12
Ground	23 488	24 993	28 784	30 820	33 101
Waste	345	840	1 212	1 101	980
Greece	114	203	94	131	111
Irish Republic	463	364	551	889	650
Italy					
Unmanufactured	52	106	65	118	158
Ground	2 586	2 759	3 473	3 405	3 657
Lithuania	...	138	137	124	122
Netherlands					
Unmanufactured	433	139	54	143	176
Ground	6 247	8 403	9 951	7 381	7 251
Norway	1 174	1 759	1 559	1 001	1 141
Poland	557	486	878	547	918
Portugal	113	198	311	193	630
Romania					
Mica	...	590	828	886	912
Spain	5 447	1 810	1 641	1 917	1 484
Sweden	547	566	514	592	515
Switzerland	289	357	426	601	1 151
Turkey	33	169	215	248	231
United Kingdom					
Unmanufactured	240	424	1 769	296	251
Ground	9 349	8 327	6 286	6 684	5 856
Waste	4 224	5 050	4 374	4 485	3 474

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 2006 was confined to only 12 countries, of which the USA, Chile and China together produced 78%.
- 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 price in 2006 for molybdenum oxide (Mo content in oxide) was US\$53.1/kg representing a 22% decrease on 2005. European ferro-molybdenum was generally in the range US\$50–62.

Exports of molybdenum

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	2 123	(a) *2 200	(a) *2 300	(a) *4 800	(a) *3 000
Oxides	0	5	125	...	...
Belgium-Luxembourg					
Ores & concentrates	9 271	11 690	16 219	17 683	24 320
Metal	199	314	221	342	194
Oxides	1 621	820	571	687	905
Bulgaria					
Metal	37	49	546	105	87
Estonia					
Metal	1	47	1	1	...
France					
Metal	65	15	436	35	38
Oxides	20	27	31	9	10
Germany					
Ores & concentrates	240	905	2 309	2 770	3 812
Metal	1 274	1 465	2 014	2 241	2 958
Oxides	2 523	2 894	—	—	—
Italy					
Metal	57	250	171	132	639
Netherlands					
Ores & concentrates	52 237	17 141	30 424	47 395	27 264
Metal	81	161	120	59	190
Oxides	1 920	1 640	2 010	2 708	2 110
Poland					
Metal	...	...	...	61	122
United Kingdom					
Ores & concentrates	418	84	180	179	166
Metal	326	230	312	807	318

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

Molybdenum

Imports of molybdenum

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	356	382	865	599	1 342
Belgium-Luxembourg					
Ores & concentrates	24 746	36 903	45 922	54 452	47 122
Metal	277	179	277	383	490
Oxides	730	2 702	1 519	2 072	2 618
Bulgaria					
Metal	33	58	53	108	73
Czech Republic					
Ores & concentrates	32	...	...	189	139
Metal	29	42	66	89	175
Estonia					
Metal	25	43	4	82	146
Finland					
Ores & concentrates	3 581	4 868	5 603	4 127	9 270
France					
Ores & concentrates	1 604	1 591	1 492	1 783	1 896
Metal	686	727	762	993	1 075
Oxides	284	371	664	678	579
Germany					
Ores & concentrates	8 663	9 800	12 221	11 537	14 059
Metal	2 406	1 878	3 043	2 569	3 894
Oxides	397	545	703	725	2 049
Greece					
Metal	21	1	13	2	47
Hungary					
Metal	105	121	129	129	145
Italy					
Ores & concentrates	4 097	4 119	4 719	5 109	5 552
Metal	163	122	105	203	189
Oxides	141	172	247	117	229
Netherlands					
Ores & concentrates	21 723	29 337	39 710	31 781	34 891
Metal	285	459	141	287	801
Oxides	1 891	1 577	2 032	1 509	1 441
Poland					
Ores & concentrates	16	1	8	1	5
Metal	84	36	142	102	208
Portugal					
Metal	15	15	24	14	14
Slovenia					
Ores & concentrates	0	42	524	5 674	700
Spain					
Ores & concentrates	4 226	3 917	3 805	3 317	4 584
Metal	91	45	30	31	163
Sweden					
Ores & concentrates	6 132	5 235	5 826	5 690	6 863
Metal	219	252	458	280	139
Oxides	791	784	594	392	1 133
Switzerland					
Metal	21	26	25	31	21
Turkey					
Metal	4	4	10	4	3
Oxides	54	84	130	82	0
United Kingdom					
Ores & concentrates	21 437	18 884	18 371	18 600	19 032
Metal	1 220	1 169	1 854	2 877	3 445
Oxides	106	7	2	630	635

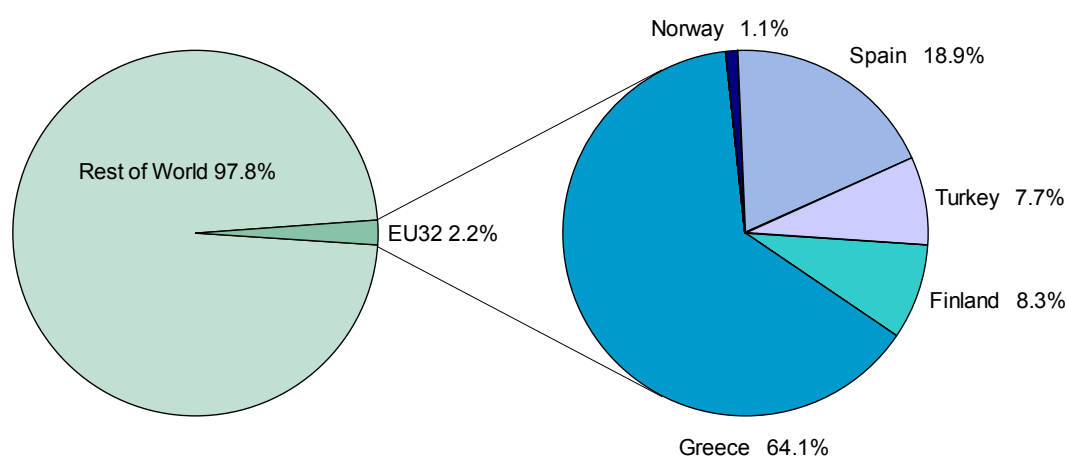
Note(s) :-

(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.
- Around half of world nickel mine production in 2006 was supplied by Russia, Australia and Canada. Greece is the only significant mine producer in the EU32 but several countries refine nickel based on imported raw materials. Norway was the largest EU32 refined nickel producer in 2006.
- As a result of a relatively small production base, the refined nickel price can be quite volatile. The nickel market enjoyed strong growth in 2006 largely driven by increased use of stainless steel. Average LME nickel prices increased from US\$13500/tonne in January to US\$35100/tonne in December.

EU32 Mine production of nickel 2006

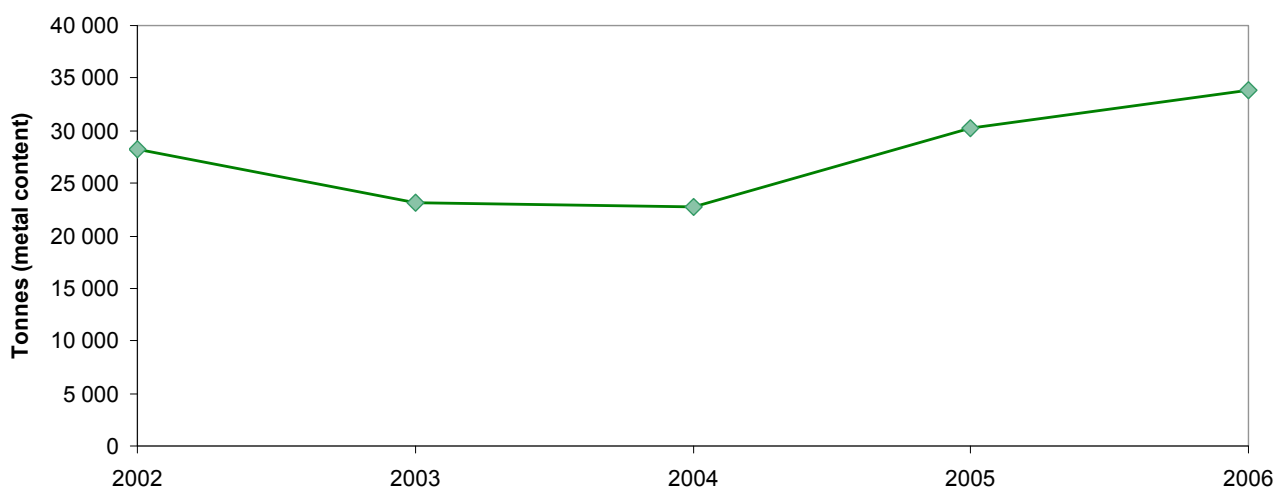


Mine production of nickel

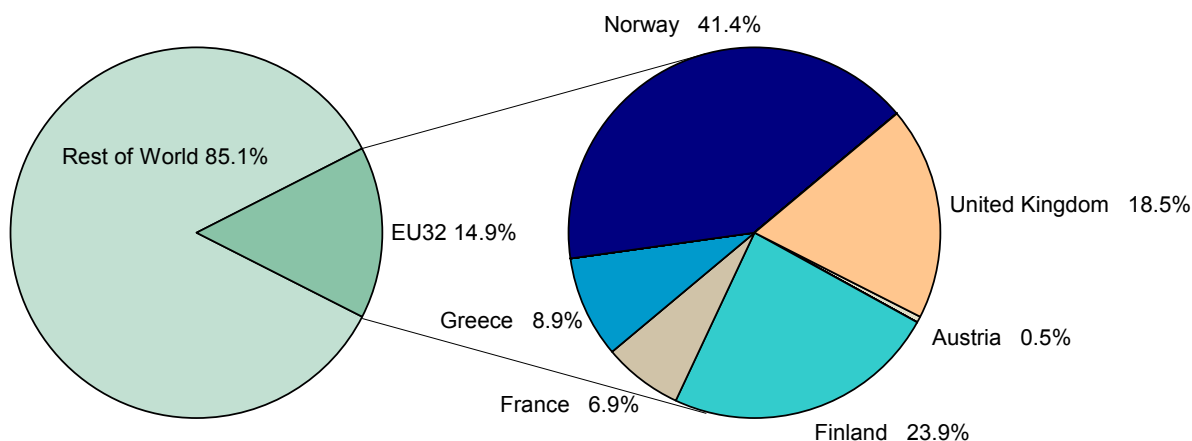
tonnes (metal content)

Country	2002	2003	2004	2005	2006
Finland	3 500	3 400	3 400	3 400	2 800
Greece	22 700	19 100	19 000	20 400	21 700
Norway	2 052	—	382	342	362
Spain	—	—	—	5 380	6 400
Turkey	—	640	—	700	2 600
EU32 Total	28 300	23 100	22 800	30 200	33 900

EU32 Mine production of nickel 2002 - 06



EU32 Smelter/refinery production of nickel 2006



Smelter/refinery production of nickel

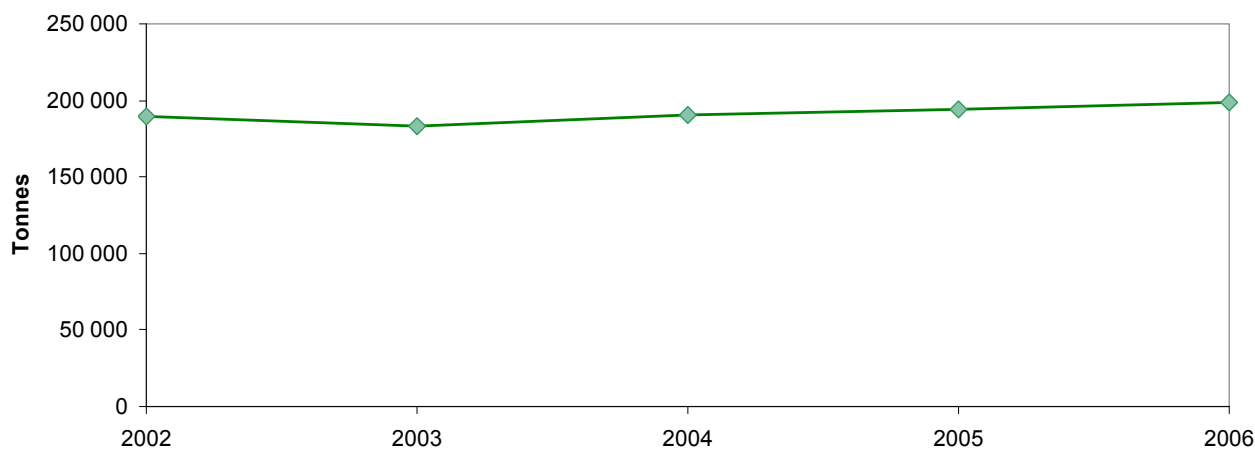
tonnes

Country	2002	2003	2004	2005	2006
Austria	*1 000	*1 000	300	400	1 000
Finland	55 348	50 989	49 580	39 159	47 469
France	11 444	11 370	12 103	12 684	13 700
Greece	19 230	18 000	18 116	19 235	17 700
Norway	68 500	77 183	71 410	85 374	82 257
United Kingdom	33 800	24 200	38 600	37 100	36 800
EU32 Total	189 300	182 700	190 100	194 000	198 900

Note(s):-

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

EU32 Smelter/refinery production of nickel 2002 - 06



Exports of nickel

Country	2002	2003	2004	2005	2006
Austria					
Mattes, sinters etc.	288	47	9	...	...
Unwrought (a)	570	206	297	226	197
Scrap	377	440	1 520	1 927	2 337
Belgium-Luxembourg					
Ores & concentrates	82	438	...	853	877
Mattes, sinters etc.	697	1 139	768	209	559
Unwrought	12 351	9 848	16 290	13 376	14 324
Unwrought alloys	1 752	1 947	2 843	2 510	1 994
Scrap	6 118	1 114	1 694	1 008	3 656
Oxides	712	268	772	702	685
Czech Republic					
Unwrought (a)	211	186	967	57	690
Scrap	219	417	525	843	1 036
Oxides	159	358	296	658	602
Denmark					
Scrap	190	593	777	676	585
Estonia					
Unwrought (a)	—	999	...	42	29
Scrap	195	108	296	34	713
Finland					
Ores & concentrates	11 939	1 459	—	—	—
Unwrought	39 367	37 416	36 458	30 628	37 747
Scrap	118	...	26	28	47
Oxides (b)	*2 000	*600	*500	*300	*600
France					
Unwrought	7 460	8 396	9 203	10 148	11 761
Unwrought alloys	294	542	1 455	1 762	999
Scrap	6 625	8 306	6 618	6 373	7 826
Oxides	24	359	1 140	63	433
Germany					
Ores & concentrates	12 229	10 884	10 717	7 822	8 901
Mattes, sinters etc.	...	...	644	5 604	9 285
Unwrought	5 582	5 225	5 549	8 988	5 287
Unwrought alloys	5 837	6 011	8 732	9 376	9 970
Scrap	8 277	8 091	8 096	9 342	6 224
Oxides	505	246	105	102	143
Greece					
Ores & concentrates	...	2 362	...	...	52 169
Irish Republic					
Scrap	701	664	797	641	1 015
Italy					
Unwrought (a)	2 701	2 923	1 637	1 720	799
Scrap	552	351	644	1 923	448
Latvia					
Scrap	1 004	853	170	538	116
Lithuania					
Scrap	759	996	770	411	674
Netherlands					
Mattes, sinters etc.	(b) *19 300	(b) *8 100	37 108	41 174	32 405
Unwrought (a)	25 214	33 096	24 467	21 895	77 742
Scrap	1 494	3 602	2 745	2 009	1 740
Oxides	2 528	0	28 549	6 017	1 757
Norway					
Ores & concentrates	25 902	6 268	9 575	7 581	7 860
Unwrought	67 718	78 389	71 982	84 012	81 440
Scrap	139	264	909	897	641
Poland					
Oxides	146	339	468	529	577
Slovenia					
Unwrought (a)	262	116	144	117	118
Spain					
Ores & concentrates	...	...	...	85 203	95 377
Unwrought (a)	609	126	177	572	795
Scrap	208	420	363	528	910

Nickel

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Sweden					
Unwrought	1 887	384	126	112	514
Scrap	1 661	1 096	1 138	4 369	5 743
Oxides	142	181	317	291	349
Switzerland					
Unwrought (a)	105	125	49	73	154
Scrap	587	880	1 106	1 403	1 669
Turkey					
Ores & concentrates	...	43 600	3 511	51 703	22 942
United Kingdom					
Mattes, sinters etc.	128	200	964	196	517
Unwrought	19 775	19 200	38 249	38 524	31 610
Unwrought alloys	4 257	4 899	4 710	6 141	6 486
Scrap	7 912	7 861	10 465	14 119	15 555

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	2002	2003	2004	2005	2006
Austria					
Mattes, sinters etc.	737	401	369	460	684
Unwrought (a)	4 554	5 251	6 772	6 903	7 599
Scrap	641	520	632	447	670
Oxides	609	430	293	312	195
Belgium-Luxembourg					
Mattes, sinters etc.	216	61	162	214	203
Unwrought	32 016	41 648	42 387	41 364	51 130
Unwrought alloys	488	636	979	822	483
Scrap	2 611	828	1 644	1 221	271
Oxides	326	497	366	324	349
Czech Republic					
Unwrought (a)	1 825	2 158	2 574	2 520	3 531
Oxides	236	465	712	785	844
Denmark					
Unwrought (a)	114	96	112	97	92
Scrap	—	432	447	317	403
Estonia					
Mattes, sinters etc.	1 075	1 696	46	73	...
Unwrought (a)	315	1 328	163	60	23
Scrap	211	100	331	108	562
Finland					
Ores & concentrates	178 968	146 122	169 170	104 983	190 233
Mattes, sinters etc.	57 571	51 225	42 944	50 194	45 851
Unwrought (a)	14 977	24 289	24 307	23 801	27 939
Scrap	90	200	1 332	860	757
Oxides	6 093	0	11	...	1
France					
Mattes, sinters etc.	15 496	15 087	12 329	15 399	19 818
Unwrought	39 979	30 995	26 842	22 656	26 631
Unwrought alloys	2 269	3 192	5 350	6 104	5 500
Scrap	2 048	2 210	2 068	1 554	2 393
Oxides	140	200	166	228	297

Imports continued

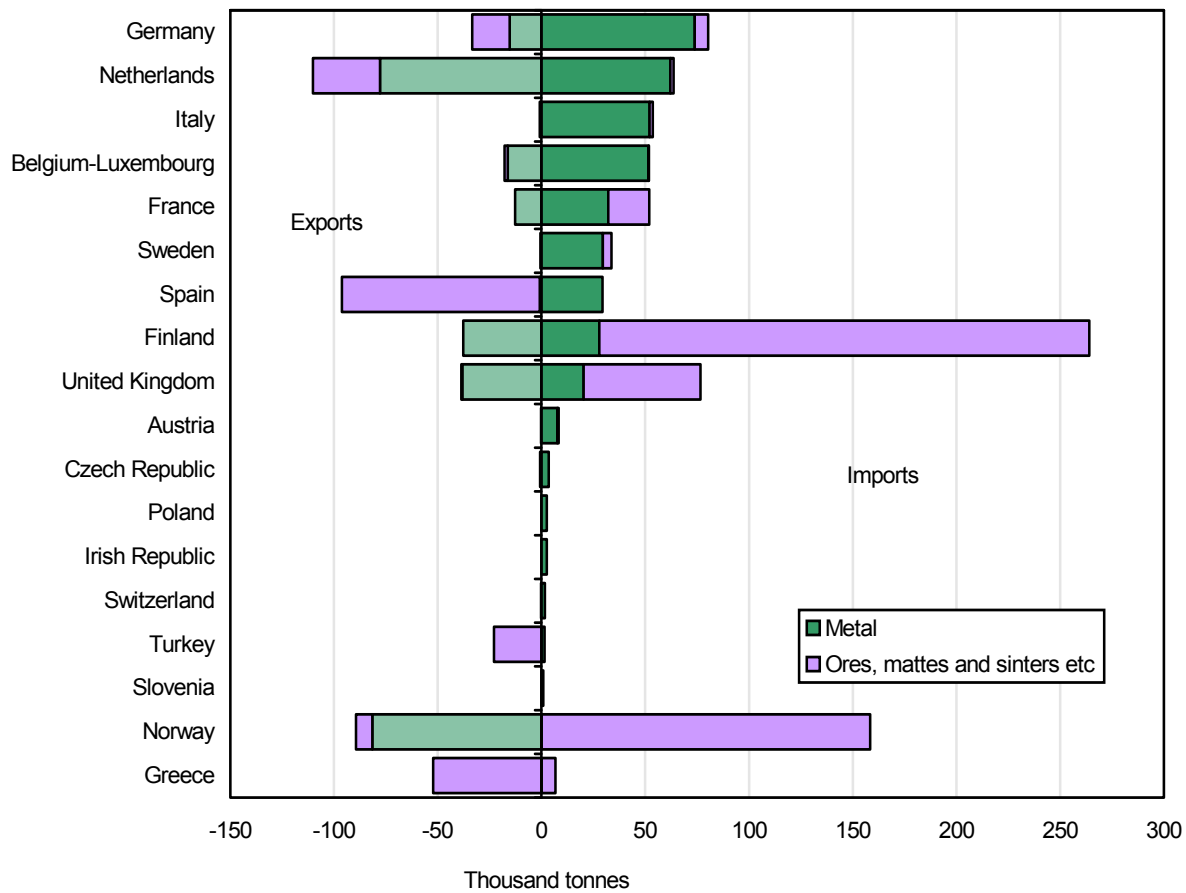
Country	2002	2003	2004	2005	2006
Germany					
Mattes, sinters etc.	23 006	4 030	7 264	6 902	6 459
Unwrought	84 677	72 571	72 788	87 939	70 947
Unwrought alloys	1 625	1 933	1 646	2 182	2 908
Scrap	11 197	10 889	11 347	11 672	15 116
Oxides	668	563	517	502	445
Greece					
Ores & concentrates	...	10 480	6	29 153	6 657
Unwrought	67	60	61	56	39
Irish Republic					
Unwrought (a)	1 361	1 558	1 493	1 775	1 256
Unwrought alloys	1 271	1 529	1 456	1 769	1 251
Italy					
Mattes, sinters etc.	515	306	353	32	1 550
Unwrought	49 803	51 276	41 944	37 708	48 178
Unwrought alloys	1 577	1 211	2 664	1 455	3 918
Scrap	559	2 248	3 075	5 119	1 606
Oxides	133	127	101	56	40
Macedonia					
Ores & concentrates	0	42 306	65 162	236 025	466 623
Netherlands					
Mattes, sinters etc.	10 394	8 566	9 144	3 832	1 488
Unwrought	61 898	65 504	61 516	76 469	62 009
Unwrought alloys	47	266	321	343	139
Scrap	4 398	5 585	6 582	6 738	9 870
Oxides	6 764	7 683	4 632	5 654	3 051
Norway					
Mattes, sinters etc.	145 072	158 897	136 200	176 657	158 274
Unwrought (a)	138	46	222	80	60
Poland					
Unwrought (a)	1 561	1 589	2 207	1 683	2 573
Portugal					
Unwrought (a)	293	184	310	602	739
Romania					
Unwrought (a)	457	280	563	745	747
Slovakia					
Unwrought	94	79	199	264	71
Slovenia					
Unwrought (a)	1 595	992	959	931	874
Spain					
Unwrought (a)	32 795	27 346	28 234	28 635	29 345
Oxides	306	225	210	176	127
Sweden					
Mattes, sinters etc.	12 476	4 032	4 051	4 346	4 215
Unwrought	24 982	25 423	27 687	26 931	28 101
Unwrought alloys	863	857	1 076	1 324	1 414
Scrap	18 399	12 543	10 523	8 946	9 158
Switzerland					
Unwrought (a)	1 417	1 392	1 333	1 401	1 706
Turkey					
Unwrought (a)	1 919	2 415	3 353	3 321	1 423
Oxides	160	162	144	128	44
United Kingdom					
Mattes, sinters etc.	52 514	43 968	64 192	57 492	56 336
Unwrought	46 610	34 162	45 264	24 019	17 414
Unwrought alloys	1 868	31 491	2 238	1 629	2 883
Scrap	25 270	20 038	8 957	10 927	7 975
Oxides	130	47	103	277	59

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

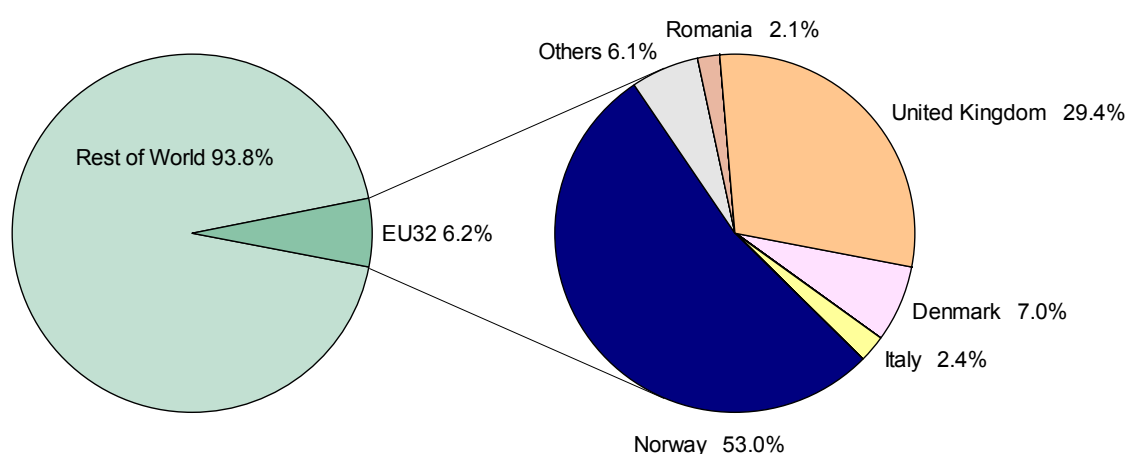
Nickel - EU32 trade in 2006



Crude petroleum

- Petroleum ('oil') is a fundamental energy resource and raw material for lubricants, olefins, polymers (plastics) and other synthetic materials.
- In 2006 a total of 3889 million tonnes of crude petroleum was produced. The largest producing country was Saudi Arabia (13%). In Europe the largest producer was Norway (53% of EU32 production). Despite the volume of oil produced from European fields (6% of the world total), the EU32 is a net importer of oil by a substantial margin.
- Global supply of crude oil tightened during 2006 placing upward pressure on prices. Prices peaked above US\$78/barrel in August and dropped to around US\$60/barrel in December. The average 2006 price for Brent Crude was US\$65/barrel, nearly 20% above the 2005 average.

EU32 Production of crude petroleum 2006



Production of crude petroleum

tonnes

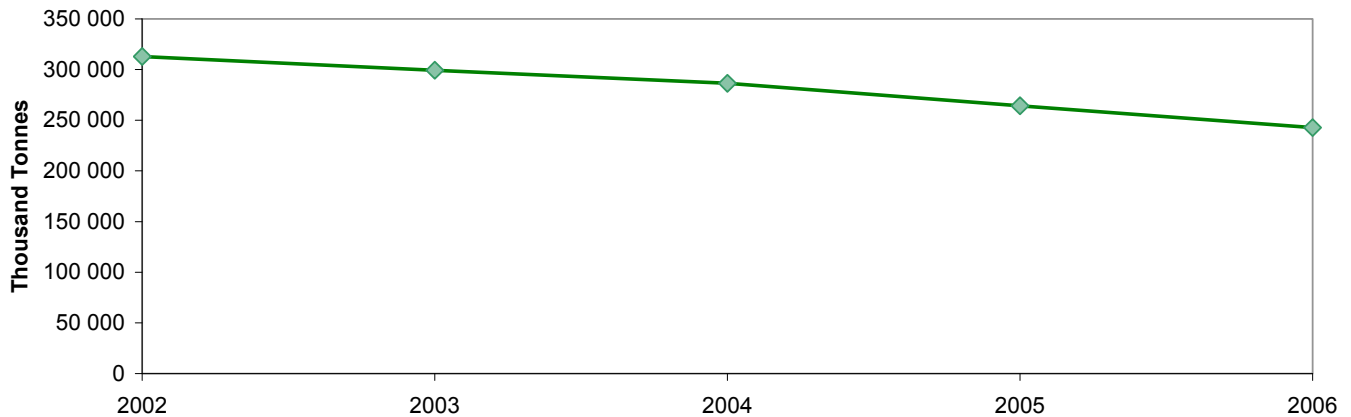
Country	2002	2003	2004	2005	2006
Austria	1 032 204	1 014 716	981 588	933 040	944 637
Bulgaria	33 000	27 900	33 100	30 000	27 500
Croatia	1 108 434	1 052 121	1 037 787	980 486	950 859
Czech Republic	253 000	310 000	299 000	306 000	259 000
Denmark	18 494 000	18 341 000	19 446 000	18 822 000	17 068 000
Estonia (a)	*1 438 000	*1 463 000	*1 314 000	*1 692 000	*1 635 000
France	1 316 890	1 219 000	1 288 000	1 179 000	1 100 000
Germany	3 768 054	3 799 864	3 515 537	3 572 764	3 514 284
Greece	207 000	162 000	132 890	100 678	...
Hungary	1 049 770	1 134 245	1 076 844	947 542	880 000
Italy	5 531 000	5 570 000	5 445 000	6 100 000	5 800 000
Lithuania	433 700	382 400	301 874	216 634	180 894
Netherlands	3 073 924	3 076 398	2 890 979	2 268 746	2 022 475
Norway	157 847 000	153 508 000	150 974 000	139 802 000	128 700 000
Poland	727 973	764 806	886 188	847 844	795 742
Romania	5 810 000	5 651 000	5 462 000	5 212 000	5 000 000
Slovakia	51 921	47 953	42 410	33 150	30 520
Spain	326 197	329 171	262 707	166 014	142 922
Turkey	2 440 202	2 375 082	2 275 529	2 280 764	2 175 353
United Kingdom	108 023 000	99 055 000	88 831 000	78 809 000	71 426 000
EU32 Total	313 000 000	299 300 000	286 500 000	264 300 000	242 800 000

Note(s):-

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

(a) From oil shale

EU32 Production of crude petroleum 2002 - 06



Exports of crude petroleum

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg	2 319 755	2 263 897	2 967 608	2 616 977	2 833 897
Czech Republic	129 275	155 258	64 315	57 522	41 794
Denmark	13 073 624	13 015 898	14 324 704	13 567 566	11 456 257
Estonia (a)	*648 000	*283 000	*321 000	*339 000	...
France	90 903	91 091	39	20 374	2 675
Germany	656 861	1 741 465	1 253 391	1 257 658	344 965
Italy	871 391	802 524	824 206	986 121	937 813
Latvia	10 477	10 162	19 892	6 085	12 099
Lithuania	134 180	273 187	197 709	148 031	115 075
Netherlands	849	54 938	136 202	145 541	309 456
Norway	139 103 257	135 201 186	129 935 579	119 119 538	105 110 521
Poland	450 000	161 074	138 253	216 256	243 699
Slovakia	13 013	16 699	113 305	30 887	27 686
Turkey	15 310	8 401	...	23 242	22 626
United Kingdom	79 943 787	69 617 507	60 743 679	50 619 044	47 864 601

Note(s):-

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

Imports of crude petroleum

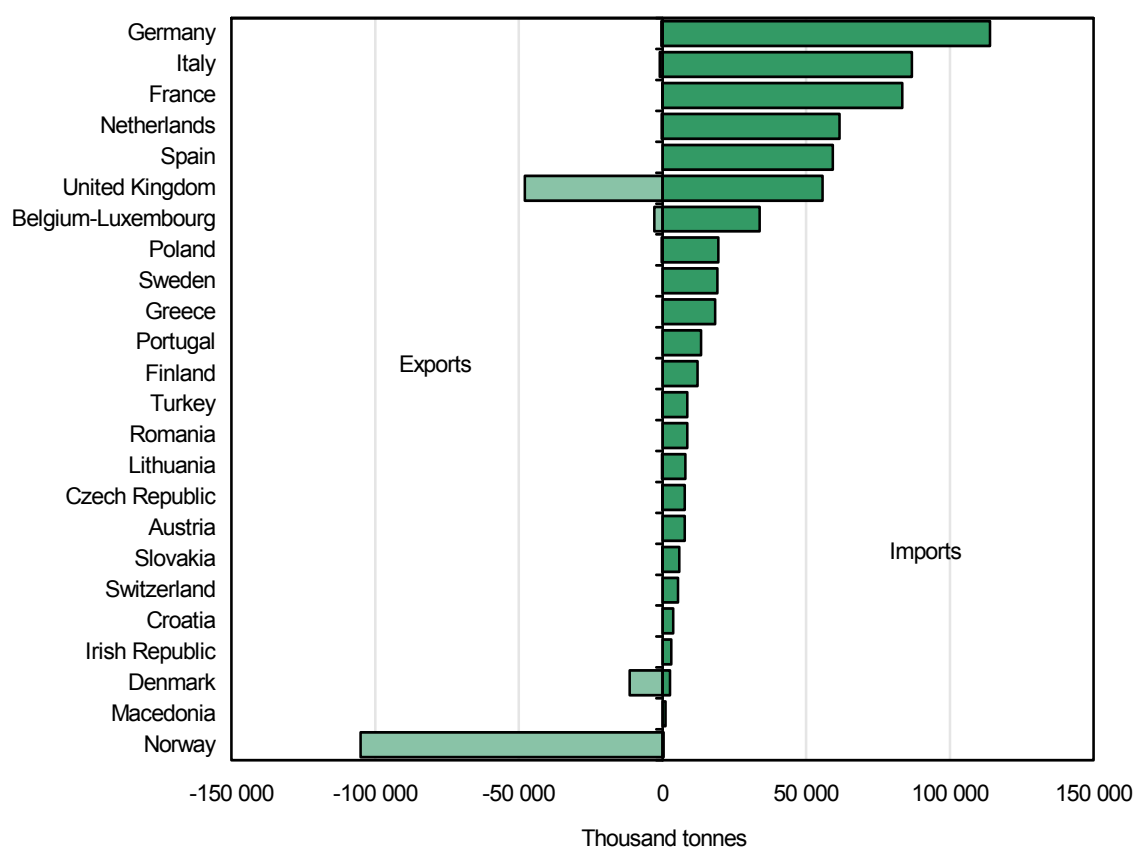
Country	2002	2003	2004	2005	2006
Austria	8 128 843	7 819 276	7 539 310	7 836 688	7 698 169
Belgium-Luxembourg	37 490 772	42 731 484	34 210 727	34 417 017	33 843 960
Croatia	4 009 452	3 776 305	4 197 554	3 855 070	3 778 918
Cyprus	1 143 649	838 280	417 475	...	...
Czech Republic	5 548 002	7 380 375	6 530 733	7 674 771	7 752 356
Denmark	3 193 530	3 517 270	3 725 978	2 666 384	2 576 191
Finland	11 745 754	12 019 477	12 249 366	10 603 534	12 176 669
France	80 589 846	84 181 898	86 416 072	84 951 337	83 411 036
Germany	104 331 841	107 268 878	112 096 299	113 067 864	113 960 654
Greece	18 653 052	18 976 807	18 390 500	18 926 138	18 370 720
Hungary	5 029 814	...	5 001 714	—	...
Irish Republic	1 112 511	1 378 494	2 128 991	3 226 383	3 082 372
Italy	81 043 087	84 724 010	87 208 954	89 007 151	86 807 240
Lithuania	6 219 137	7 075 694	8 375 777	9 746 806	7 994 367
Macedonia	538 562	880 062	781 438	950 742	1 081 738
Netherlands	54 968 223	56 463 347	61 377 494	62 152 486	61 548 064
Norway	590 064	562 851	440 346	983 848	440 374
Poland	16 400 000	17 448 290	17 316 135	17 639 489	19 479 284
Portugal	11 635 480	12 544 785	13 081 242	12 941 851	13 479 579
Romania	5 690 063	5 216 636	7 314 284	8 688 818	8 678 466

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Slovakia	5 554 324	5 603 952	5 858 911	5 421 866	5 878 819
Spain	57 489 130	57 578 507	59 343 873	59 510 408	59 203 359
Sweden	18 665 040	20 436 192	20 873 087	19 770 639	19 170 472
Switzerland	4 869 479	4 551 511	5 086 184	4 744 965	5 413 010
Turkey	21 626 643	24 028 666	23 917 019	23 393 477	8 680 623
United Kingdom	40 838 161	44 511 352	56 128 686	54 067 943	55 735 570

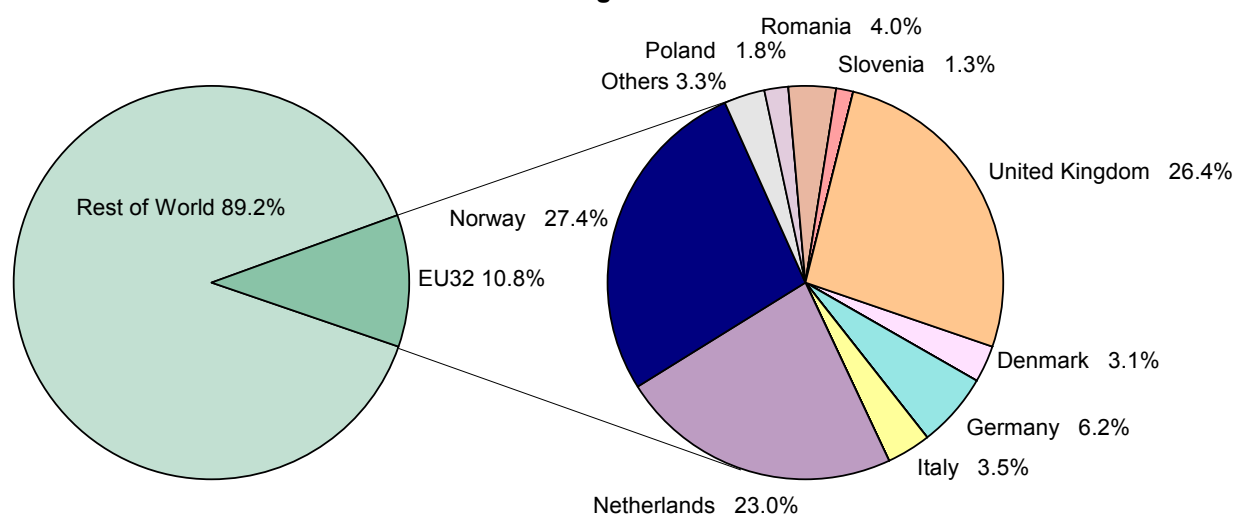
Crude petroleum - EU32 trade in 2006



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. Norway was the largest producer in the EU32 (27%) and the fifth largest producer in the world. The UK (26%) was the second largest producer in the EU32.
- Gas price (European Union CIF) averaged US\$8.77/million Btu in 2006, a 40% rise on 2005.

EU32 Production of natural gas 2006



Production of natural gas

million m³

Country	2002	2003	2004	2005	2006
Austria	2 015	2 029	2 011	1 654	1 765
Bulgaria	11	11	333	573	519
Croatia	2 122	2 190	2 198	2 384	2 714
Czech Republic	91	131	175	356	148
Denmark	7 947	7 552	8 946	9 908	9 873
France	1 751	1 523	1 325	1 089	1 167
Germany	21 556	22 228	20 411	19 171	19 776
Greece	36	27	23	16	...
Hungary	3 130	3 145	3 112	3 041	3 250
Irish Republic (a)	839	673	848	570	507
Italy	14 623	13 885	12 961	11 977	11 000
Netherlands	71 786	69 114	81 499	74 460	73 300
Norway	65 501	72 905	78 351	84 702	87 490
Poland	5 263	5 315	5 630	5 742	5 651
Romania	13 647	13 174	13 246	12 120	12 720
Slovakia	212	201	178	151	137
Slovenia	5 704	4 926	5 500	5 500	4 200
Spain	553	268	370	174	118
Turkey	242	276	344	484	307
United Kingdom	110 154	108 441	101 572	93 392	84 170
EU32 Total	327 200	328 000	339 000	327 500	318 800

Note(s):-

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

(a) Sales

EU32 Production of natural gas 2002 - 06



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.
- China, USA and Morocco together produce 64% of phosphate rock. Morocco is the largest exporter. Finland is the only producer in the EU32, which is otherwise dependent on extra-EU32 imports.
- Phosphate rock (70–72% BPL, FAS Casablanca) traded at US\$46/tonne in 2006.

Production of phosphate rock

tonnes

Country	2002	2003	2004	2005	2006
Finland	799 814	799 339	838 000	823 000	857 922

Exports of phosphate rock

tonnes

Country	2002	2003	2004	2005	2006
Austria	906	1 280	802	1	942
Belgium-Luxembourg	54 563	75 856	101 115	108 238	82 232
Finland	40	1 626	16 375	996	1 141
France	1 488	1 018	6 362	4 463	10 147
Germany	302	66	43	5 048	700
Italy	513	475	4 417	4 883	6 789
Lithuania	...	...	...	150	1 406
Macedonia	1 675	3 086	3 104	3 388	1 944
Netherlands	181 928	94 541	94 150	91 592	98 687
Poland	2 511	...	507	1	1
Slovakia	...	26	48	438	2 603
Slovenia	...	...	...	189 207	140 281
Sweden	94	51	5	392	969
United Kingdom	386	111	34	1 548	335

Imports of phosphate rock

tonnes

Country	2002	2003	2004	2005	2006
Austria	...	237 605	210 010	67 853	94 630
Belgium-Luxembourg	1 668 206	1 664 247	1 545 478	1 688 029	1 299 125
Bulgaria	490 935	550 013	515 889	543 637	449 874
Croatia	177 728	181 534	245 224	272 005	317 571
Czech Republic	27 955	24 299	24 282	22 633	28 141
Denmark	57 813	80 114	30 425	1 311	274
Finland	55 716	55 555	57 184	488	343
France	919 097	773 860	593 253	427 194	387 794
Germany	167 297	120 231	148 082	104 335	117 711
Greece	338 443	336 893	364 398	378 931	197 629
Hungary	14 730	9 140	...	4	...
Irish Republic	9 717	440	1 159	219	154
Italy	278 389	296 497	359 090	279 693	242 633
Lithuania	899 042	1 079 502	1 082 901	1 178 816	1 193 093
Macedonia	79 103	37 599	6 567	...	...
Netherlands	964 035	922 349	724 960	776 661	815 692
Norway	664 834	666 188	646 319	710 528	672 546

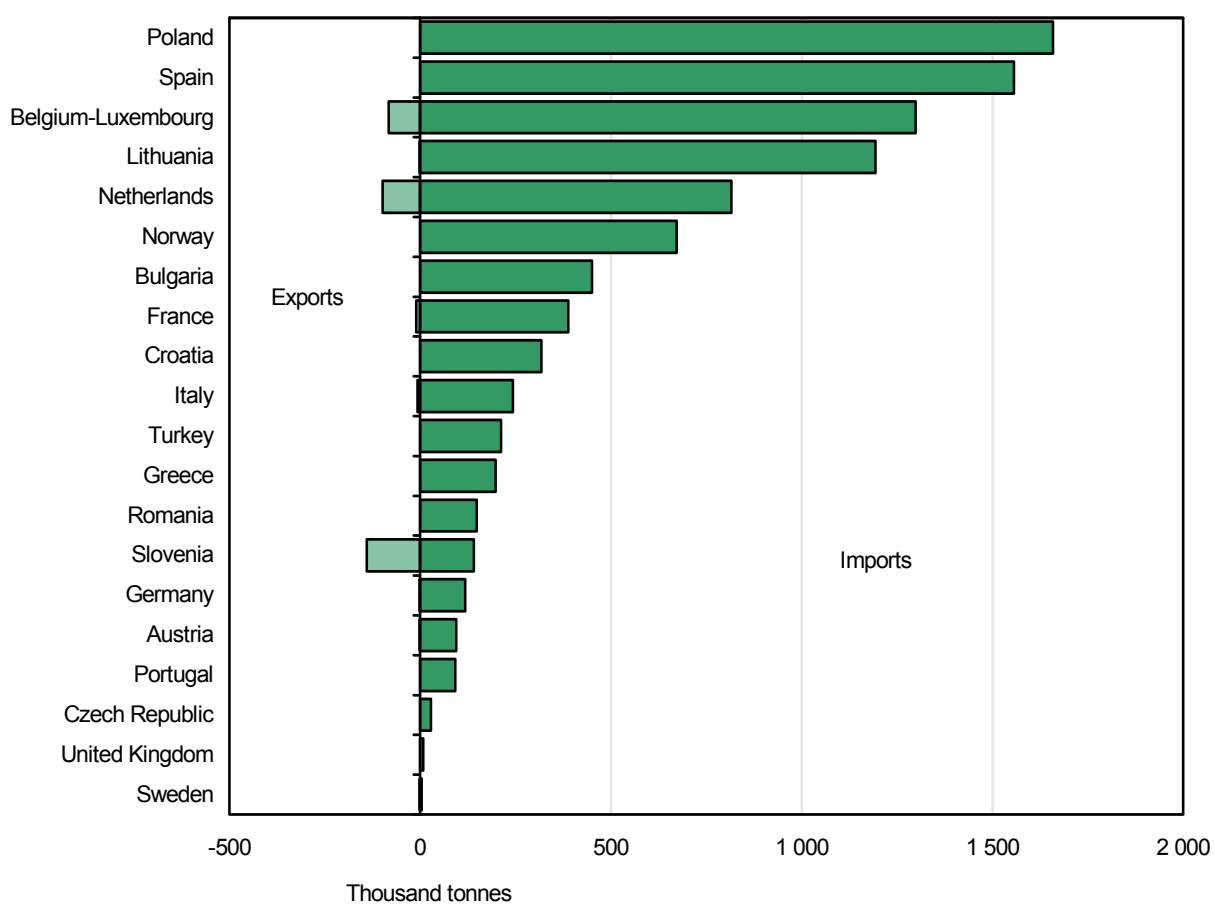
Phosphates

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Poland	1 407 541	1 452 726	1 885 350	1 558 007	1 658 266
Portugal	134 664	141 740	149 365	137 423	91 912
Romania	249 271	264 547	303 713	283 192	148 110
Slovakia	1 388	441	2 954	5 421	494
Slovenia	...	...	...	189 208	140 455
Spain	1 805 229	1 790 138	1 800 329	1 768 425	1 556 734
Sweden	66 930	18 346	129	156	4 275
Turkey	746 033	610 286	291 245	373 134	211 810
United Kingdom	10 275	1 242	11 586	30 177	7 803

Phosphate rock - EU32 trade in 2006



Platinum group elements

- The platinum group elements (PGEs) 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 2006 were South Africa (61% - chiefly platinum) and Russia (28% - chiefly palladium). There is no EU32 mine production but the UK is a major exporter of refined PGEs due to its processing industry based on imported materials and recycling.
- The average annual platinum price in 2006 reached US\$1144.42/roy ounce, an increase of more than 27% compared to 2005. Palladium averaged US\$323/roy ounce in 2006, a 59% increase on 2005.

Exports of platinum group metals

kilograms

Country	2002	2003	2004	2005	2006
Austria					
Platinum & platinum metals	£2 827 000	£4 556 000	£8 114 000	£12 253 000	£14 846 000
Waste & scrap	...	£362 000	£50 000	£397 000	£281 000
Belgium-Luxembourg					
Platinum	3 200	2 000	1 000	700	2 600
Platinum metals	7 300	2 100	4 400	2 100	3 000
Waste & scrap	319 342	239 700	245 596	305 700	934 000
Bulgaria					
Waste & scrap (a)	*35 800	*17 500	*24 000	*31 400	*73 200
Czech Republic					
Platinum & platinum metals	79 408	(a) *22 000	(a) *4 600	(a) *3 300	(a) *310
Waste & scrap	2 818	5 316	4 158	4 500	4 700
Denmark					
Platinum & platinum metals	115	208	...	1 435	...
Estonia					
Waste & scrap	41 383	3 706	3 981	...	...
France					
Platinum	5 300	3 800	2 800	1 700	...
Platinum metals	4 600	3 400	5 200	2 600	...
Waste & scrap	107 500	35 400	44 182	184 400	383 300
Germany					
Platinum	21 400	26 300	31 900	43 300	40 600
Palladium	40 200	22 000	15 900	20 800	24 400
Other platinum metals	4 000	2 900	4 600	11 100	16 000
Waste & scrap	1 067 200	803 500	815 821	1 648 800	2 797 600
Irish Republic					
Waste & scrap	22 983	5 544	13 100	7 900	6 523
Italy					
Platinum	3 546	10 430	6 277	6 555	9 542
Platinum metals	13 337	8 310	4 207	6 458	51 628
Waste & scrap	61 441	96 968	105 220	206	1 065
Latvia					
Waste & scrap	407	567	716	1 002	0
Lithuania					
Waste & scrap	2 982	7 980	6 019	...	0
Netherlands					
Platinum	£17 686 000	£19 007 000	£18 570 000	£9 061 000	£8 717 554
Platinum metals	£634 000	£1 015 000	£1 377 000	£8 211 000	£3 971 142
Waste & scrap	10 900	9 200	201 129	876	16 569
Norway					
Platinum & platinum metals	10 986	11 150	13 360	11 871	11 885
Waste & scrap	76 801	616	384	342	29 817
Poland					
Platinum & platinum metals	872	308	470	800	100
Waste & scrap	6 543	52 366	33 019	1 000	200
Slovakia					
Platinum & platinum metals	257	310	308	8	22 600

Platinum Metals

Exports continued

kilograms

Country	2002	2003	2004	2005	2006
Slovenia					
Platinum & platinum metals	919	817	1 083	3	200
Spain					
Platinum & platinum metals	285	104	1 054	152	363
Waste & scrap	253	7 479	1 893	2 892	290
Sweden					
Platinum & platinum metals	£610 000	£280 000	£1 037 000	£663 000	£1 514 000
Waste & scrap	27 536	27 000	29 000	25 000	280 000
Switzerland					
Platinum	73 384	67 305	57 268	42 102	62 243
Palladium	73 072	47 110	61 960	75 105	46 578
Other platinum metals	829	203	1 703	2 047	292
Waste & scrap	122 380	85 301	118 241	235 630	200 470
United Kingdom					
Platinum	69 955	37 874	44 598	41 500	42 843
Palladium	19 176	27 669	61 198	51 807	48 688
Other platinum metals	6 002	9 631	12 610	17 852	23 353
Waste & scrap	914 126	1 862 845	2 681 379	2 881 226	3 507 381

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	2002	2003	2004	2005	2006
Austria					
Platinum & platinum metals	2 900	9 400	9 400	7 200	8 400
Belgium-Luxembourg					
Platinum	3 044	2 481	19 590	...	...
Platinum metals	7 545	11 324	235	1 978	...
Croatia					
Platinum & platinum metals	604	...	839	12 320	107
Cyprus					
Platinum & platinum metals	40	35	78	97	73
Czech Republic					
Platinum & platinum metals	1 147	5 249	...	1 289	...
Denmark					
Platinum & platinum metals	530	...	1 324	2 076	...
Estonia					
Waste & scrap	8 790	7 250	...	...	...
Finland					
Platinum & platinum metals	296	773	231	495	309
France					
Platinum	8 500	5 100	6 200	5 396	...
Platinum metals	12 100	15 400	17 900	3 432	...
Waste & scrap	200 100	334 300	40 700	55 600	370 600
Germany					
Platinum	34 300	44 800	39 600	58 400	46 900
Palladium	45 000	31 600	20 700	56 000	42 000
Other platinum metals	5 600	6 100	6 400	9 100	8 700
Waste & scrap	4 500 100	3 837 500	3 713 700	6 574 600	9 332 700
Greece					
Platinum & platinum metals	449	156	179	181	248
Hungary					
Platinum & platinum metals	140	274	168	300	...
Irish Republic					
Platinum & platinum metals	2 342	1 829	2 620	3 865	...

Imports continued

kilograms

Country	2002	2003	2004	2005	2006
Italy					
Platinum	17 518	10 551	12 087	15 586	17 279
Platinum metals	26 602	20 085	21 430	19 183	19 020
Waste & scrap	5	39	278	20 085	431
Lithuania					
Waste & scrap	...	...	...	5 400	26 700
Netherlands					
Platinum	£13 377 000	£14 194 000	£11 484 000	£1 107 000	£21 774 398
Platinum metals	£8 134 000	£5 463 000	£6 930 000	£1 093 000	£6 819 672
Norway					
Platinum & platinum metals	984	747	973	1 076	922
Waste & scrap	840	87	59	998	1 102
Poland					
Platinum & platinum metals	208	402	...	3 560	15 500
Slovakia					
Platinum & platinum metals	231	61	1 885	125	174
Slovenia					
Platinum & platinum metals	1 018	1 033	430	12 262	300
Spain					
Platinum & platinum metals	3 311	1 612	1 402	13 799	1 506
Waste & scrap	32	31	298	122	526
Sweden					
Platinum & platinum metals	£6 134 000	£6 531 000	£4 985 000	£6 513 000	£4 509 000
Waste & scrap	265	339 000	273 000	577 000	618 000
Switzerland					
Platinum	56 039	69 111	47 742	51 377	76 842
Palladium	106 412	54 805	96 530	46 565	126 416
Other platinum metals	1 063	816	3 725	780	1 078
Waste & scrap	49 569	129 698	161 433	156 229	172 679
Turkey					
Platinum & platinum metals	393	378	231	216	122
United Kingdom					
Platinum	12 030	13 827	47 735	51 553	23 472
Palladium	22 072	48 106	24 666	30 576	37 226
Other platinum metals	4 772	8 636	8 267	7 134	9 127
Waste & scrap	775 673	367 327	617 417	1 271 315	1 148 802

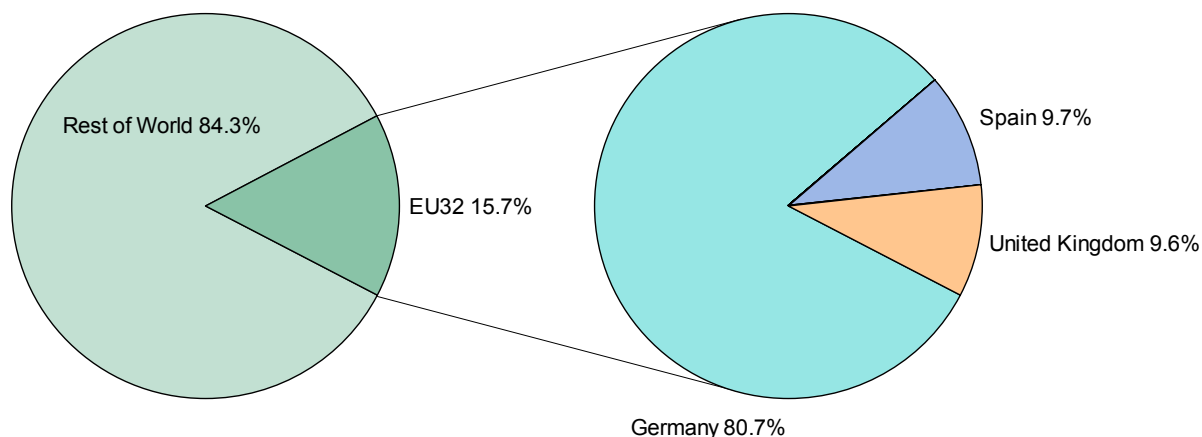
Note(s) :-

- (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 13 countries produced potash in 2006. Canada, Russia, Belarus and Germany together generated 77% of world production. The EU32 is a major producer of potash, producing 4.49 million tonnes in 2006 (16% of world production).
- World potash market prices have been relatively stable for the past decade. However they increased in 2004 and again in 2005 where prices surged from US\$145-160/t prices for standard grade potash, fob Vancouver to US\$160-190/t. Prices marginally increased in the first half of 2006 and remained steady at around US\$175-195/t for the second half.

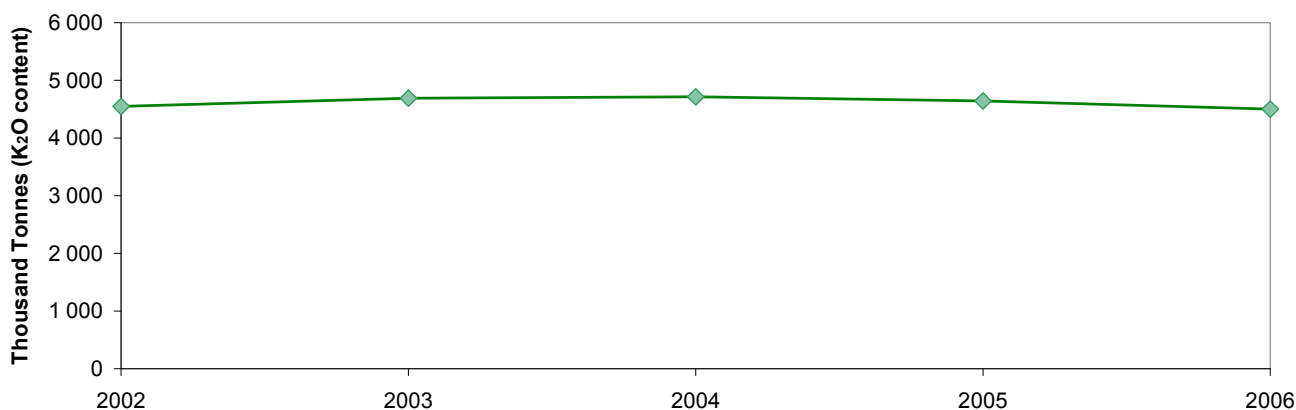
EU32 Production of potash 2006



Production of potash

Country	tonnes (K ₂ O content)				
	2002	2003	2004	2005	2006
France					
Potassic salts	128 000	—	—	—	—
Germany					
Potassic salts	3 471 763	3 563 932	3 626 510	3 663 829	3 624 977
Spain					
Chloride	406 571	505 527	553 210	550 000	437 000
United Kingdom					
Chloride	540 100	621 400	539 500	439 200	429 600
EU32 Total	4 546 000	4 691 000	4 719 000	4 653 000	4 492 000

EU32 Production of potash 2002 - 06



Exports of potash

Country	2002	2003	2004	2005	2006
Austria					
Potassic fertilisers	134	258	158	4 713	8 584
Belgium-Luxembourg					
Fertiliser salts	5 313	1 193	441	127	...
Sulphate (b)	*444 600	*490 000	*685 000	*628 000	*423 900
Chloride	211 383	142 227	140 950	116 862	41 405
Other potassic fertilisers	5 803	4 756	7 993	9 773	4 769
Czech Republic					
Potassic fertilisers	541	808	2 416	3 463	685
Denmark					
Chloride	23	8 728	3 162	1 052	64 272
Finland					
Sulphate	(b) *33 300	(b) *51 300	(b) *34 900	33 484	(b) *7 400
Other potassic fertilisers	3 075	710	1 094	38 993	65 068
France					
Sulphate	740	860	8 248	54 235	32 887
Chloride	95 248	41 600	19 459	6 376	3 185
Other potassic fertilisers	536	660	1 271	841	...
Germany					
Fertiliser salts (a) (c)	2 998 738	3 103 009	3 077 154	3 235 651	*3 200 000
Greece					
Potassic fertilisers	2 119	2 107	4 083	2 894	3 977
Hungary					
Potassic fertilisers	221	61	2 512	1 253	...
Italy					
Potassic fertilisers	1 502	2 415	1 169	1 270	2 194
Lithuania					
Potassic fertilisers	7 705	7 128	8 037	10 463	8 939
Netherlands					
Chloride	243 242	219 413	197 731	163 072	152 423
Other potassic fertilisers	750	468	391	759	1 557
Norway					
Potassic fertilisers	3 869	10 964	10 107	7 611	2 243
Poland					
Potassic fertilisers	544	1 023	1 638	932	3 130
Spain					
Sulphate	15 635	11 628	3 958	2 832	1 245
Chloride	350 315	502 348	675 140	514 042	201 242
Sweden					
Sulphate	136 917	127 687	70 066	54 841	10 191
United Kingdom					
Chloride	*440 000	*630 000	*512 000	*350 000	*450 000
Other potassic fertilisers	740	609	662	705	651

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

Country	2002	2003	2004	2005	2006
Austria					
Fertiliser salts	19 531	20 424	23 040	23 685	23 423
Chloride	5 318	159 216	145 757	144 234	133 514
Other potassic fertilisers	4 685	17 997	22 629	15 713	20 996
Belgium-Luxembourg					
Fertiliser salts	23 295	24 355	26 328	17 331	2 628
Sulphate	203 971	213 779	212 176	260 839	2 839
Chloride	1 175 981	1 163 936	1 276 732	1 211 640	576 972
Other potassic fertilisers	19 044	21 700	22 357	17 698	7 693

Potash

Imports continued

tonnes

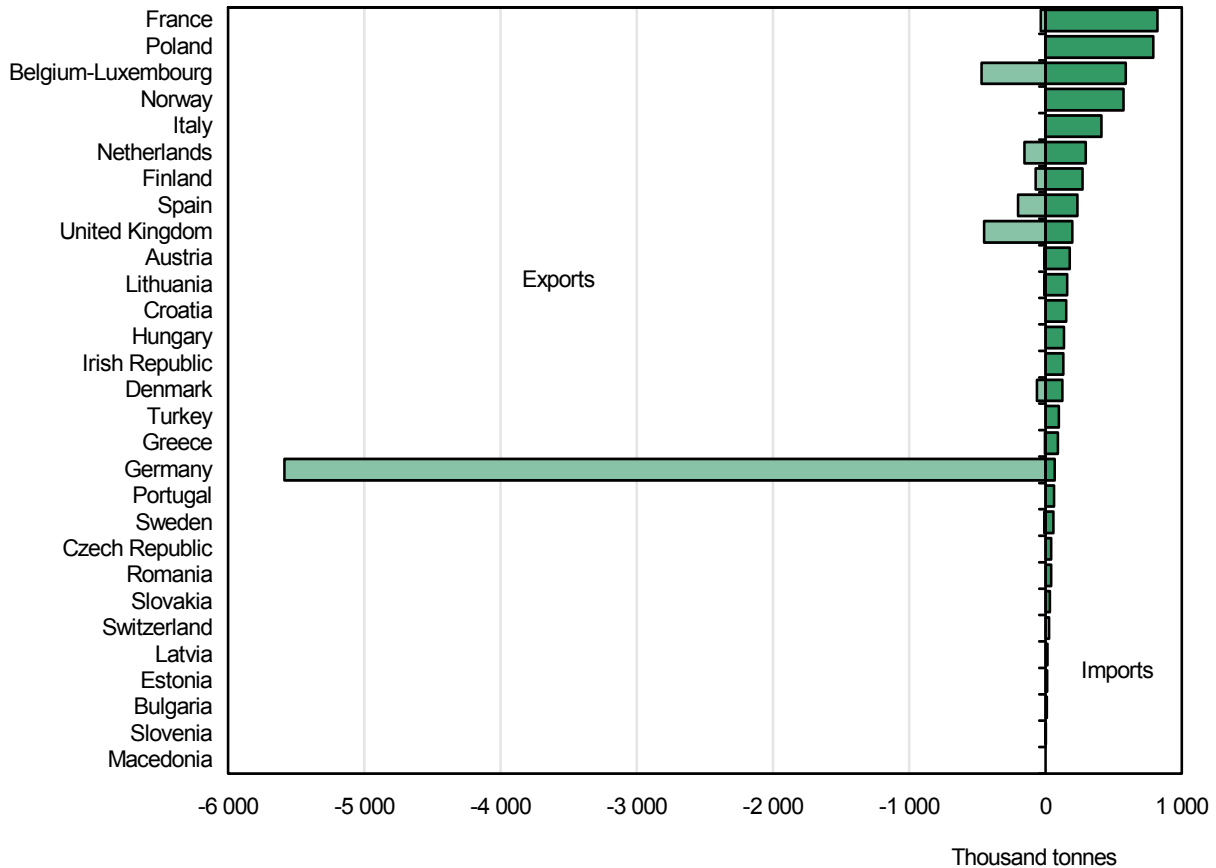
Country	2002	2003	2004	2005	2006
Bulgaria					
Potassic fertilisers	11 724	3 453	4 725	7 794	9 102
Croatia					
Chloride	124 881	146 692	168 015	131 567	149 424
Other potassic fertilisers	...	...	...	2 060	3 594
Czech Republic					
Potassic fertilisers	83 492	78 801	111 694	101 506	43 238
Denmark					
Sulphate	7 028	14 654	18 006	2 683	4 778
Chloride	146 234	166 236	119 153	38 706	106 772
Other potassic fertilisers	13 373	11 254	13 099	29 605	13 150
Estonia					
Potassic fertilisers	*18 000	19 986	23 469	15 248	11 208
Finland					
Chloride (a)	156 100	177 100	192 600	148 400	161 400
France					
Fertiliser salts	2 337	1 807	1 988	1 401	712
Sulphate	93 051	90 543	77 441	70 705	33 194
Chloride	1 463 860	1 755 346	1 866 149	1 492 129	777 056
Other potassic fertilisers	25 410	32 600	31 959	29 488	11 432
Germany					
Chloride	89 067	85 597	97 924	75 483	62 917
Other potassic fertilisers	6 206	5 810	4 996	10 029	6 283
Greece					
Sulphate	59 315	55 208	92 816	28 334	44 049
Chloride	32 834	36 469	29 191	46 667	36 887
Other potassic fertilisers	3 057	5 256	6 411	4 387	9 682
Hungary					
Potassic fertilisers	124 330	121 815	143 465	141 013	136 944
Irish Republic					
Chloride	17 160	3 790	30 456	113 476	125 803
Other potassic fertilisers	2 483	6 156	4 924	5 747	4 566
Italy					
Sulphate	84 724	102 855	96 904	96 415	91 061
Chloride	445 906	422 469	392 833	334 324	302 115
Other potassic fertilisers	21 604	16 491	29 902	13 203	17 583
Latvia					
Potassic fertilisers	17 241	22 764	26 368	21 343	15 230
Lithuania					
Chloride	141 946	160 334	172 622	123 782	143 499
Other potassic fertilisers	6 767	7 384	12 978	12 086	16 639
Macedonia					
Potassic fertilisers	10 076	4 089	5 736	362	995
Netherlands					
Sulphate	12 505	12 777	23 765	26 208	24 658
Chloride	180 033	467 219	387 637	445 767	265 838
Other potassic fertilisers	4 949	6 018	4 321	2 486	5 283
Norway					
Sulphate	200 407	249 307	267 653	247 379	266 149
Chloride	339 431	310 954	309 061	306 369	307 422
Poland					
Fertiliser salts	1 245	948	2 264	621	1 066
Sulphate	18 752	19 967	24 143	21 770	14 517
Chloride	754 473	821 469	1 098 679	1 041 798	770 674
Other potassic fertilisers	2 877	5 223	4 174	4 726	4 110
Portugal					
Sulphate	2 144	4 457	7 526	3 631	3 227
Chloride	73 748	55 775	79 232	65 682	58 237
Other potassic fertilisers	1 570	1 630	1 752	2 780	2 141
Romania					
Sulphate	2 174	41 698	8 070	757	6 361
Chloride	58 108	33 920	53 008	41 974	35 384
Slovakia					
Potassic fertilisers	39 452	30 582	36 256	28 913	32 302
Slovenia					
Potassic fertilisers	99	1 725	1 751	1 704	2 465

Imports continued

Country	2002	2003	2004	2005	2006
Spain					
Sulphate	71 719	37 444	48 174	47 561	10 412
Chloride	245 620	249 881	269 278	243 017	224 320
Other potassic fertilisers	9 304	10 432	22 019	4 667	86
Sweden					
Sulphate	4 755	884	2 819	4 911	10 191
Chloride	44 086	33 748	68 457	43 106	44 941
Other potassic fertilisers	2 285	9 862	4 409	1 119	4 109
Switzerland					
Sulphate	2 496	2 621	2 170	3 325	4 215
Chloride	23 053	15 792	19 185	18 971	18 811
Other potassic fertilisers	3 983	3 721	3 039	3 411	2 555
Turkey					
Sulphate	31 362	51 467	59 381	39 198	19 373
Chloride	111 780	107 412	130 748	135 433	78 671
United Kingdom					
Fertiliser salts	19 366	12 751	9 204	9 517	10 696
Chloride	372 031	246 164	207 056	198 893	170 942
Other potassic fertilisers	8 804	5 439	12 383	13 151	15 584

Note(s) :-
(a) K₂O content

Potash - EU32 trade in 2006



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 by far the largest producer (90–95%) and exporter. There is no EU32 production, thus Europe is entirely import dependent.
- Despite the limited production base, REE prices were remarkably stable. Through 2006, bastnaesite concentrate (70% leached) traded at US\$2.25/lb rare earth oxides (REO). Yttria (99.99% Y₂O₃) traded at US\$5/kg. The price for lanthanum oxide (99%) was US\$1.9/kg, the same as in 2005.

Exports of rare earths

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Cerium compounds	(a) *2 500	1 750	1 564	1 980	1 569
Other rare earth compounds	(a) *7 000	6 144	6 415	6 449	5 911
Metals	...	417	456	421	333
Belgium-Luxembourg					
Rare earth compounds	452	743	721	413	302
Ferro-cerium & other pyrophoric alloys	7	2	0	...	...
Metals	160	158	237	187	444
Estonia					
Rare earth compounds	4 156	2 129	1 064	2 319	6 819
Metals	...	30	14	3	1
France					
Rare earth compounds	314	1 660	8 588	2 007	2 185
Ferro-cerium & other pyrophoric alloys	94	109	125	32	...
Metals	231	58	65	7	24
Germany					
Rare earth compounds	102	115	108	123	145
Metals	8	10	4	1	1
Irish Republic					
Rare earth compounds	64	107	85	14	73
Ferro-cerium & other pyrophoric alloys	...	362	...	...	...
Italy					
Rare earth compounds	26	39	20	13	43
Metals	19	15	81	168	56
Netherlands					
Rare earth compounds	53	95	87	171	157
Ferro-cerium & other pyrophoric alloys	14	...	...	0	...
Metals	17	58	124	13	16
Norway					
Metals	27	...	...	11	59
Spain					
Ferro-cerium & other pyrophoric alloys	85	1	2	3	1
United Kingdom					
Cerium compounds	88	118	47	121	111
Other rare earth compounds	1 128	1 105	1 157	1 189	954
Ferro-cerium & other pyrophoric alloys	19	768	197	2	76
Metals	148	16	10	26	29

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	2002	2003	2004	2005	2006
Austria					
Cerium compounds	2 025	2 810	2 034	3 055	2 009
Other rare earth compounds	3 128	3 062	3 973	2 685	2 618
Metals	324	457	463	374	403
Belgium-Luxembourg					
Cerium compounds	639	843	615	411	280
Other rare earth compounds	126	143	287	139	138
Metals	225	195	226	252	443
Czech Republic					
Rare earth compounds	212	177	92	198	227
Estonia					
Rare earth compounds	609	1 734	3 208	4 317	6 819
Finland					
Cerium compounds	1	117	73	83	117
France					
Cerium compounds	9 914	10 315	11 710	7 105	9 723
Other rare earth compounds	382	1 480	1 037	585	1 329
Ferro-cerium & other pyrophoric alloys	29	2	1	5	...
Metals	169	279	251	322	479
Germany					
Cerium compounds	1 208	1 115	1 082	1 082	975
Other rare earth compounds	7 811	7 810	7 776	6 961	7 024
Ferro-cerium & other pyrophoric alloys	15	828	214	6	...
Metals	218	358	285	402	369
Hungary					
Rare earth compounds	202	114	158	...	146
Irish Republic					
Rare earth compounds	44	245	74	32	7
Metals	63	64	4	14	11
Italy					
Rare earth compounds	637	656	932	987	853
Ferro-cerium & other pyrophoric alloys	23	1	1	17	...
Metals	4	102	108	38	58
Lithuania					
Rare earth compounds	...	...	80	34	52
Netherlands					
Cerium compounds	44	135	103	141	290
Other rare earth compounds	1 380	2 222	2 254	1 879	2 781
Ferro-cerium & other pyrophoric alloys	27	2	7	3	...
Metals	25	38	10	14	135
Norway					
Metals	558	713	702	544	686
Poland					
Rare earth compounds	77	245	61	118	123
Slovenia					
Metals	71	80	107	139	96
Spain					
Rare earth compounds	523	548	692	824	828
Ferro-cerium & other pyrophoric alloys	28	87	...	8	...
Metals	92	90	84	20	84
Sweden					
Rare earth compounds	56	75	58	26	20
Metals	39	48	56	41	37
Switzerland					
Rare earth compounds	19	30	29	34	38
Turkey					
Rare earth compounds	155	201	171	155	117
United Kingdom					
Cerium compounds	3 070	2 519	1 914	2 324	1 615
Other rare earth compounds	491	471	775	775	600
Ferro-cerium & other pyrophoric alloys	34	1	9	19	60
Metals	64	115	135	166	88

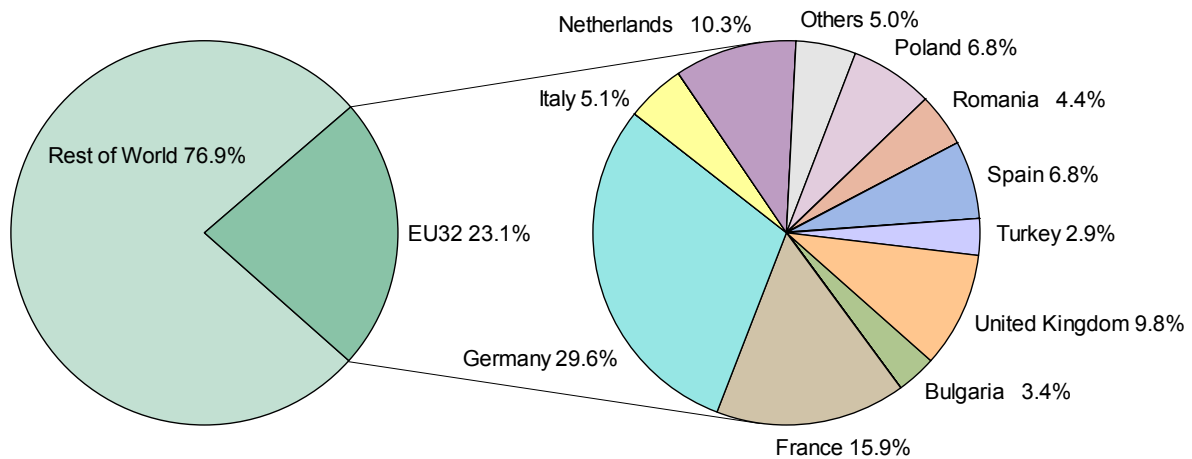
Note(s) :-

(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 2006 the largest producer was China (21%). In Europe the largest producer was Germany (30% of total EU32 production).
- Because of the wide availability of salt, markets tend to be very stable. In the UK ground rock salt, 15–20 tonne lots, delivered to the UK, traded between £20–£30/tonne.

EU32 Production of salt 2006



Production of salt

Country	2002	2003	2004	2005	2006
tonnes					
Austria					
Rock salt	1 491	1 610	1 228	1 497	1 336
Salt in brine	641 634	723 286	745 670	771 455	764 103
Bulgaria	1 800 000	1 882 000	1 900 000	1 900 000	2 000 000
Croatia	30 483	32 533	32 723	36 970	29 589
Denmark	*590 000	*600 000	*600 000	*600 000	*600 000
France					
Rock salt	434 000	320 000	406 000	494 000	...
Brine salt	1 456 000	1 409 000	1 433 000	1 468 000	...
Salt in brine	4 056 000	4 351 000	4 408 000	4 750 780	(b) 9 371 000
Sea salt	848 000	1 302 000	1 365 000	1 026 000	...
Germany					
Rock salt	6 134 000	6 178 000	7 268 000	8 258 000	9 280 000
Brine salt	1 249 000	1 123 000	974 000	1 006 000	1 001 000
Salt in brine	6 310 000	6 668 000	7 212 000	7 449 000	7 189 000
Greece	126 118	192 161	187 522	198 024	*200 000
Italy					
Rock salt & brine salt	3 342 992	2 922 251	2 876 469	2 988 051	*3 000 000
Netherlands	5 773 000	5 980 000	5 896 000	6 155 000	6 056 000
Poland					
Rock salt	838 858	847 880	1 099 072	1 123 219	1 129 875
Brine salt	2 719 131	2 790 996	2 940 169	2 889 941	2 899 076
Portugal					
Rock salt	604 969	602 035	661 704	597 945	586 190
Sea salt	40 139	86 603	75 400	92 495	76 610
Romania	2 257 886	2 416 970	2 399 956	2 442 640	2 619 435
Slovakia	97 400	133 100	121 600	105 100	122 500
Slovenia	5 200	3 632	2 852	803	1 624
Spain					
Rock salt	2 559 760	2 562 832	2 656 904	2 894 526	(b) 4 000 000
Sea salt	1 234 679	1 327 108	1 227 625	1 368 960	...
Other salt	97 945	97 730	108 733	125 836	...

Production continued

tonnes

Country	2002	2003	2004	2005	2006
Switzerland	400 000	461 000	486 000	539 000	543 000
Turkey					
Rock salt	55 305	10 205	6 100	512	...
Sea salt	411 646	556 652	582 440	529 235	*500 000
Other salt	1 729 686	1 675 915	1 569 178	1 196 486	*1 200 000
United Kingdom					
Rock salt	*1 500 000	*1 700 000	*2 000 000	*2 000 000	*2 000 000
Brine salt	*1 000 000	*1 000 000	*1 000 000	*1 000 000	*1 000 000
Salt in brine (a)	*3 200 000	*3 200 000	*2 800 000	*2 800 000	*2 800 000
EU32 Total	51 500 000	53 200 000	55 000 000	56 800 000	59 000 000

Note(s):-

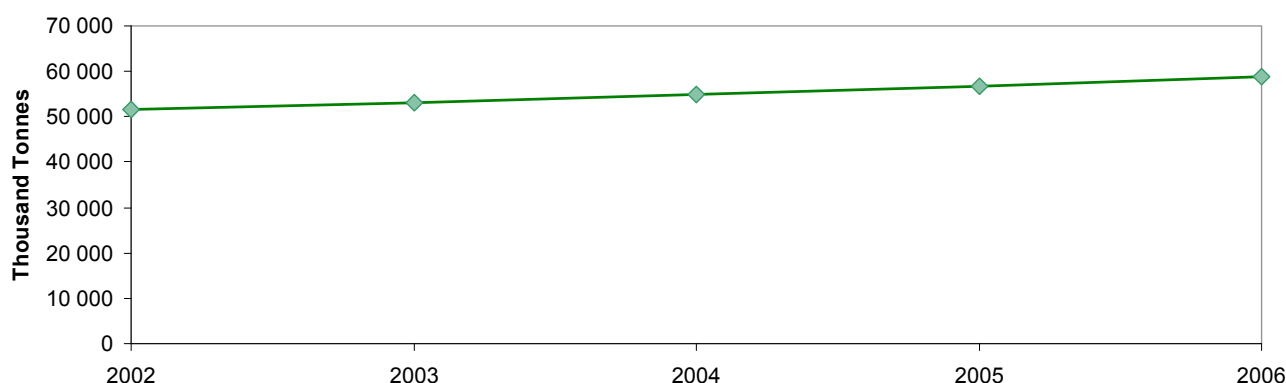
(1) This table does not include production of refined salt

(2) Salt is known to be produced in many countries for which statistics are not available.

(a) Used for purposes other than salt-making

(b) Salt; all forms

EU32 Production of salt 2002 - 06



Exports of salt

tonnes

Country	2002	2003	2004	2005	2006
Austria	...	253 791	183 850	199 133	202 465
Belgium-Luxembourg	129 726	117 806	105 680	121 103	94 196
Bulgaria	4 938	2 625	8 586	10 090	16 020
Croatia	4 242	5 530	9 226	5 688	9 759
Cyprus	1 729	508	559	635	521
Czech Republic	7 768	10 490	12 986	13 833	30 648
Denmark	340 177	376 794	350 587	355 887	115 980
Finland	1 812	581	458	384	531
France	437 847	497 458	506 431	407 255	254 487
Germany	3 340 569	3 695 084	3 201 549	3 372 522	3 943 083
Greece	36 450	42 976	44 664	50 390	62 896
Hungary	629	2 987	576	49 578	45 215
Irish Republic	354	110	233	1 521	2 492
Italy	326 123	325 395	289 415	317 124	361 602
Latvia	668	411	5 169	10 205	14 485
Lithuania	2 887	3 377	5 457	5 895	7 150
Macedonia	833	1 339	1 329	2 677	4 508
Netherlands	3 641 444	3 679 323	3 212 606	3 749 442	4 126 810
Norway	3 687	4 657	4 948	6 679	9 040
Poland	339 140	419 201	493 259	495 481	498 345
Portugal	4 413	3 952	4 444	6 130	11 872
Romania	393 787	546 390	497 826	598 154	503 629
Slovakia	45 612	47 199	51 539	53 451	51 566
Slovenia	4 400	4 814	5 253	8 034	20 702
Spain	617 170	695 177	744 750	750 180	743 390

Salt

Exports continued

tonnes

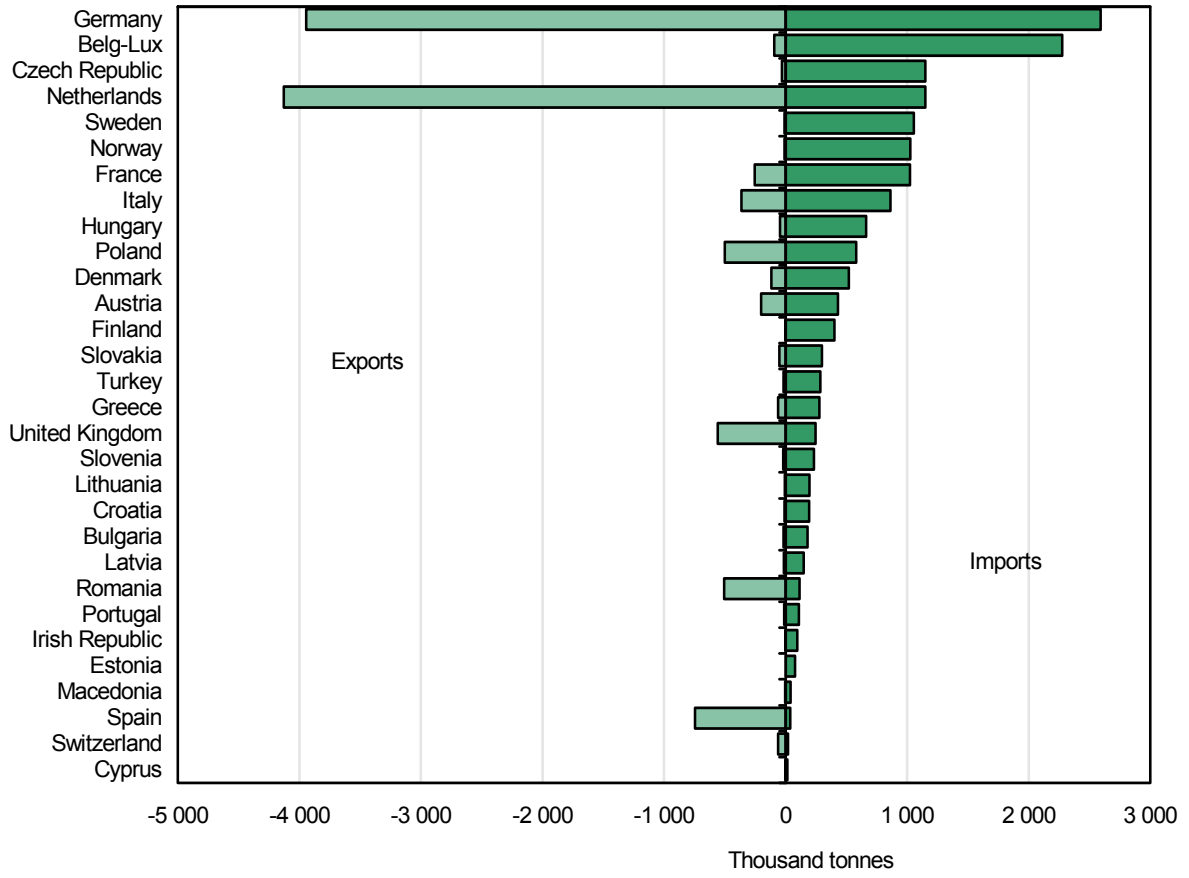
Country	2002	2003	2004	2005	2006
Sweden	20 208	156 140	10 354	8 783	9 357
Switzerland	28 394	52 482	41 044	30 461	62 318
Turkey	46 398	43 317	30 898	22 167	17 095
United Kingdom	326 760	537 497	691 895	538 796	557 311

Imports of salt

tonnes

Country	2002	2003	2004	2005	2006
Austria	92 209	206 355	350 903	210 736	429 515
Belgium-Luxembourg	3 411 148	1 895 987	1 236 192	1 315 385	2 275 674
Bulgaria	125 613	116 840	138 631	165 727	181 801
Croatia	139 989	164 046	165 277	226 931	193 911
Cyprus	10 530	14 053	8 650	13 795	13 647
Czech Republic	622 455	681 134	909 966	891 667	1 151 331
Denmark	317 692	376 122	440 020	436 794	520 735
Estonia	78 085	78 883	78 849	58 269	78 483
Finland	447 703	395 727	408 367	438 346	401 961
France	564 159	753 902	850 703	1 110 898	1 024 789
Germany	2 391 447	2 366 521	2 467 276	2 558 898	2 591 036
Greece	102 103	218 991	173 729	162 669	277 940
Hungary	468 704	557 050	486 695	592 522	662 455
Irish Republic	110 654	77 992	83 789	83 746	96 164
Italy	685 681	745 388	833 790	773 507	863 836
Latvia	100 542	100 459	122 251	139 662	149 696
Lithuania	166 252	187 050	204 839	198 994	197 262
Macedonia	35 497	37 383	34 790	39 178	40 184
Malta	1 846	4 034	3 863	5 453	1 629
Netherlands	432 437	489 369	535 581	630 738	1 150 949
Norway	725 887	702 713	741 959	910 846	1 026 541
Poland	156 461	156 406	294 590	376 829	582 080
Portugal	119 892	139 720	121 621	70 266	110 581
Romania	59 231	99 679	120 787	131 683	113 585
Slovakia	200 614	213 250	266 601	320 413	299 087
Slovenia	128 212	155 881	178 531	207 314	232 017
Spain	42 431	47 011	36 494	111 449	37 632
Sweden	1 030 471	828 845	929 193	738 931	1 054 982
Switzerland	7 692	13 984	9 299	48 114	19 300
Turkey	78 204	202 349	307 039	320 147	285 694
United Kingdom	306 488	217 009	219 581	287 623	246 879

Salt - EU32 trade in 2006



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 2006, production was restricted to only five 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 EU32 is France.
- The market for sillimanite minerals was stable during 2006. Kyanite, ex-works, USA (54–60% Al₂O₃, 18-tonne lots) traded between US\$282–US\$343/tonne throughout the year, a small increase on 2005 prices, and andalusite, FOB Transvaal (57–58% Al₂O₃, 2000 tonne bulk) ranged from €180–210/tonne – the same as in 2005.

Production of sillimanite minerals

tonnes

Country	2002	2003	2004	2005	2006
France					
Andalusite	59 000	62 000	68 000	*65 000	*65 000

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	2002	2003	2004	2005	2006
Belgium-Luxembourg	5 783	22 825	49 319	77 463	48 825
France	46 454	49 958	51 653	55 052	59 002
Germany	10 565	12 413	14 382	12 191	13 257
Hungary					
Mullite	2 728	3 869	6 108	6 922	6 870
Netherlands	5 604	6 400	10 097	11 444	7 679
United Kingdom	4 554	3 238	2 016	2 417	1 925

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	2002	2003	2004	2005	2006
Austria	2 499	2 660	1 981	2 194	2 100
Belgium-Luxembourg	10 499	29 333	53 146	81 538	50 726
Czech Republic	2 673	3 480	3 779	3 733	6 765
Denmark	2 726	3 414	2 274	2 909	3 023
Finland	338	299	302	445	207
France	2 685	3 411	3 360	3 080	4 813
Germany	62 654	63 602	60 782	58 047	80 183
Hungary	1 370	2 045	2 396	4 519	3 001
Irish Republic	5 795	10	89	1	...
Italy	18 193	14 669	15 132	27 476	26 304
Netherlands	37 966	24 106	12 975	20 001	24 195
Norway	2 537	2 004	3 605	2 400	2 288
Poland	16 182	17 682	14 928	9 975	21 196
Poland Mullite	659	1 974	1 355	2 207	2 012
Portugal	405	330	337	160	192
Slovakia	2 385	2 690	2 459	4 312	2 069
Spain	13 581	15 782	15 262	27 308	22 102
Sweden	12 308	14 155	5 470	5 086	5 568
Switzerland	246	253	315	413	463
Turkey	3 386	3 486	5 110	5 504	2 939
United Kingdom	18 588	22 649	24 348	39 650	10 268
United Kingdom Mullite	10 006	8 656	12 392	10 430	7 468

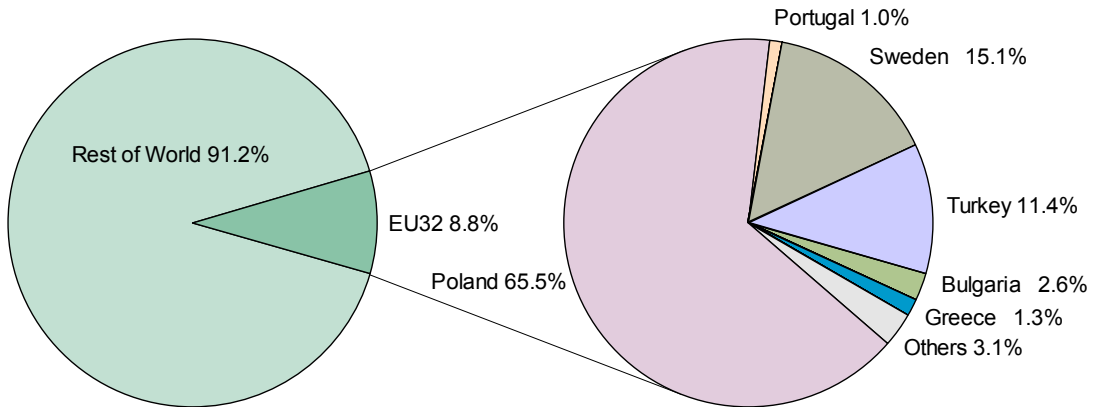
Note(s) :-

(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 2006 the world's largest producers were Peru, Mexico and China together accounting for 45% of world production. The largest EU32 producer was Poland (66% of EU32 production).
- During 2006 silver prices reached US\$14.35/troy oz, a 19 year high, with an annual average price of US\$11.61/troy oz – 58% above the 2005 average price. The significant increase in silver price during the last three years is largely attributed to increased interest from investors and greater demand in fabrication.

EU32 Mine Production of silver 2006

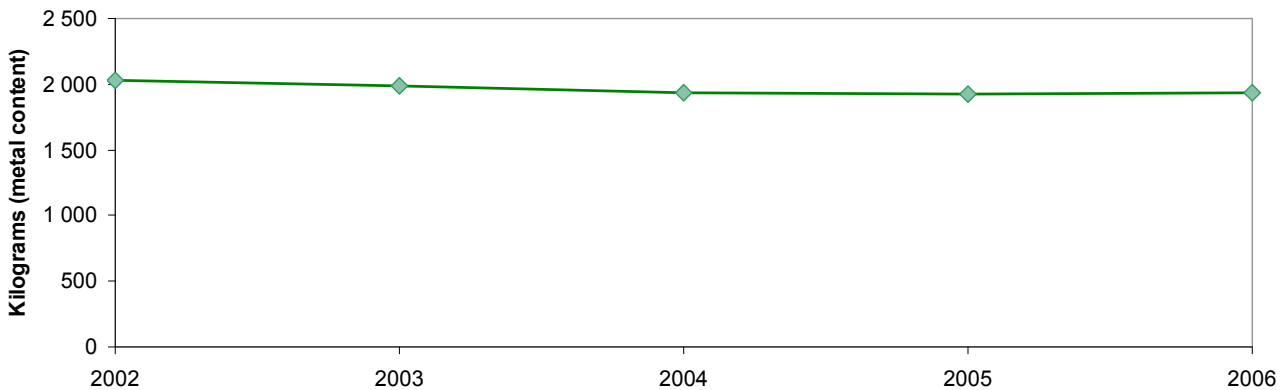


Mine production of silver

kilograms (metal content)

Country	2002	2003	2004	2005	2006
Bulgaria	60 000	*60 000	*60 000	*60 000	*50 000
Finland	*12 000	*12 000	*13 000	*13 000	*13 000
France	709	495	682	—	—
Greece	74 800	7 000	—	6 000	25 500
Irish Republic	7 500	8 500	5 200	10 500	12 900
Italy	*1 000	200	100	100	100
Macedonia	36 832	22 195	—	—	*10 000
Poland	1 342 000	1 332 200	1 372 700	1 262 400	1 265 100
Portugal	19 500	21 100	24 400	23 786	20 076
Romania	*18 000	*18 000	*18 000	*18 000	*18 000
Spain	12 792	2 173	3 583	5 227	*5 300
Sweden	320 823	340 701	319 563	309 933	292 255
Turkey	124 000	158 000	122 000	219 000	*220 000
EU32 Total	2 030 000	1 983 000	1 939 000	1 928 000	1 932 000

EU32 Mine production of silver 2002 - 06



Exports of silver

kilograms

Country	2002	2003	2004	2005	2006
Austria					
Metal	101 000	87 800	77 400	62 600	120 400
Belgium-Luxembourg					
Ores & concentrates	1 128 700	56 900	29 800	7 200	8 000
Metal	67 500	47 600	24 100	12 600	45 200
Czech Republic					
Metal	140 057	171 398	291 519	28 900	98 354
Denmark					
Metal	13 532	...	...	...	24 519
Estonia					
Metal	364	...	13	93	26
Finland					
Ores & concentrates	530 720	357 250	507 350	416 650	262 669
Metal	6 886	6 882	9 804	6 764	6 041
France					
Metal	584 600	465 300	404 600	252 300	371 386
Germany					
Metal	2 638 400	3 032 700	2 814 700	2 631 200	2 995 900
Greece					
Metal	71	351	3 299	152	3 325
Hungary					
Metal	962	1 300	2 516	300	395
Italy					
Metal	442 900	677 683	616 861	564 308	516 281
Macedonia					
Metal	26 129	24 329	64	500	...
Netherlands					
Ores & concentrates	5 600	...	42 000	...	26 860
Metal	...	119 012	99 221	93 668	151 077
Norway					
Metal	64 962	62 669	69 207	66 139	52 952
Poland					
Metal	1 135 000	1 251 194	821 501	318 800	519 800
Slovakia					
Metal	8 498	7 985	6 465	1 872	1 500
Slovenia					
Metal	1 367	3 948	2 699	6 382	3 100
Spain					
Metal	51 246	115 059	43 448	11 665	7 915
Sweden					
Metal	408 000	433 000	473 000	421 000	368 000
Switzerland					
Metal	1 306 190	1 544 676	1 085 657	1 044 080	930 397
Turkey					
Metal	303	947	2 731	21 449	8 932
United Kingdom					
Metal	1 497 995	3 429 247	1 754 885	2 289 098	1 069 383

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	2002	2003	2004	2005	2006
Austria					
Metal	100 900	109 300	127 600	127 900	168 300
Belgium-Luxembourg					
Ores & concentrates	200	84 400	1 100	...	536 600
Metal	652 200	735 100	476 800	175 200	258 700
Croatia					
Metal	4 000	*3 500	3 340	3 837	5 043

Silver

Imports continued

kilograms

Country	2002	2003	2004	2005	2006
Cyprus					
Metal	8 614	8 461	5 135	5 675	2 866
Czech Republic					
Metal	173 805	238 756	422 971	102 100	1 700
Denmark					
Metal	51 291	49 704	18 909	18 173	22 687
Estonia					
Metal	9 575	8 892	10 512	132 992	10 100
Finland					
Metal	87 543	56 470	75 350	70 623	64 504
France					
Ores & concentrates	17 500	...	19 800	...	16 300
Metal	954 400	970 000	675 000	729 800	...
Germany					
Metal	1 844 300	2 185 300	1 434 200	1 861 800	2 227 600
Greece					
Metal	38 516	49 225	95 318	...	46 241
Hungary					
Metal	15 444	17 695	33 178	15 200	900
Irish Republic					
Metal	2 960	2 247	2 709	2 386	...
Italy					
Metal	1 705 431	1 724 000	1 776 385	1 635 765	1 583 508
Lithuania					
Metal	3 058	1 771	5 885	3 943	4 500
Macedonia					
Metal	3 509	2 986	3 725	3 813	3 901
Netherlands					
Metal	131 021	140 415	139 218	139 625	263 049
Norway					
Ores & concentrates	...	...	3 118 000	...	7 923 075
Metal	60 995	72 647	86 037	90 331	64 511
Poland					
Metal	18 297	36 266	34 563	40 100	28 800
Portugal					
Metal	64	2 520	2 237	200	300
Romania					
Metal	(a) *7 700	(a) *10 900	(a) *10 900	(a) *17 700	27 443
Slovakia					
Metal	13 268	13 073	17 735	57 416	6 400
Slovenia					
Metal	35 827	36 253	307 045	45 584	19 700
Spain					
Ores & concentrates	75 862	59 205	54 295	59 653	56 421
Metal	307 864	133 844	158 529	106 596	134 673
Sweden					
Metal	116 000	111 000	161 000	151 000	137 000
Switzerland					
Ores & concentrates	...	...	...	...	24 000
Metal	1 028 138	746 184	1 082 664	1 484 207	1 306 866
Turkey					
Metal	169 098	199 226	269 009	409 844	108 588
United Kingdom					
Metal	3 780 907	2 484 101	2 105 057	1 485 290	7 316 639

Note(s) :-

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

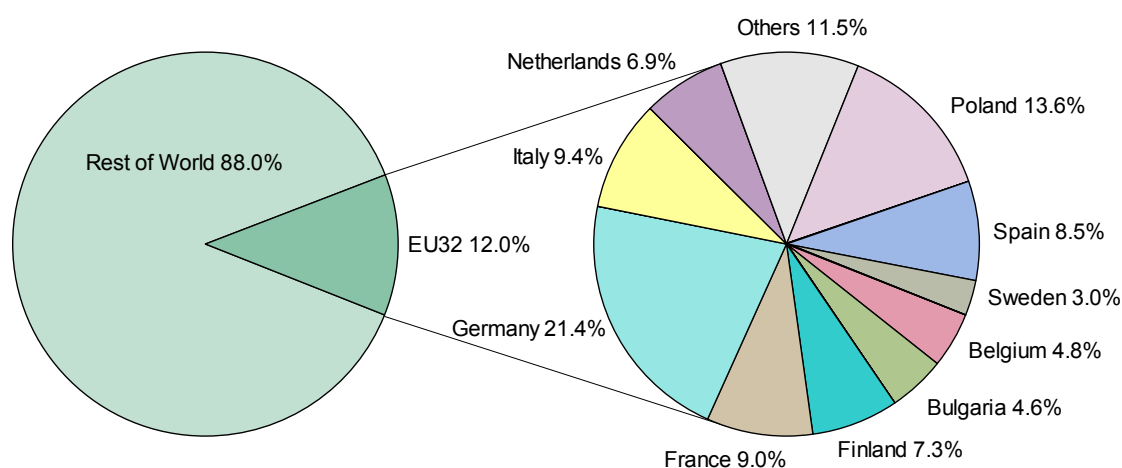
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

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

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 2006 were Canada (14%) and USA (14%). In the EU32 the largest producer was Germany (21% of EU32 production).
- In 2006, sulphur prices decreased. The contract prices for elemental sulphur at terminals in Tampa, Florida, began the year trading at US\$72–US\$75/tonne. Prices dropped to between US\$66–US\$69/tonne mid-year before ending the year at US\$58–US\$61/tonne.

EU32 Production of sulphur and pyrites 2006



Production of sulphur and pyrites

tonnes (sulphur content)

Country	2002	2003	2004	2005	2006
Austria					
Recovered (b)	54 925	50 568	55 322	54 377	50 097
Belgium					
Recovered (a) (b)	359 000	383 000	371 000	376 000	391 000
Bulgaria					
Recovered (a)	245 000	260 000	301 000	312 000	340 000
Recovered (b)	30 000	30 000	25 000	30 000	35 000
Croatia					
Recovered (b)	7 069	7 471	9 000	9 000	7 000
Czech Republic					
Recovered (b)	40 000	45 000	60 000	65 000	65 000
Denmark					
Recovered (b)	4 386	4 751	4 660	4 223	4 142
Finland					
Pyrites	235 000	276 200	283 700	184 400	199 700
Recovered (a)	328 441	328 779	325 523	304 751	325 793
Recovered (b)	55 000	61 000	65 000	70 000	70 000
France					
Recovered (b)	795 600	710 400	698 400	622 345	616 234
Recovered (c)	29 000	196 000	150 000	127 000	124 000
Germany					
Recovered (a)	46 000	—	—	—	—
Recovered (b)	1 657 200	1 619 900	1 526 700	1 627 900	1 706 200
Recovered (c)	900	43 900	40 000	42 900	42 500
Greece					
Recovered (b)	157 000	162 000	160 000	162 000	162 000
Hungary					
Recovered (b)	52 000	51 000	35 000	65 000	50 000
Italy					
Recovered (a)	142 000	127 000	113 000	92 000	87 000
Recovered (b)	560 000	565 000	575 000	650 000	680 000

Sulphur and Pyrites

Production continued

tonnes (sulphur content)

Country	2002	2003	2004	2005	2006
Lithuania					
Recovered (b)	49 824	48 515	67 094	74 276	61 135
Macedonia					
Recovered (a)	26 000	7 000	—	—	—
Netherlands					
Recovered (a)	124 000	131 000	137 000	141 000	111 000
Recovered (b)	373 000	408 000	410 000	440 000	455 000
Norway					
Recovered (a)	95 000	105 000	*105 000	*110 000	*110 000
Recovered (b)	19 000	20 000	18 000	19 000	20 000
Poland					
Frasch	760 320	762 689	821 489	801 799	800 200
Recovered (a)	*275 000	293 700	289 100	289 000	*290 000
Recovered (b)	22 777	23 384	23 767	22 193	21 567
Portugal					
Recovered	28 000	27 000	25 000	30 000	38 000
Romania					
Recovered	29 000	49 000	53 000	79 000	60 000
Slovakia					
Recovered (a)	5 000	5 000	5 000	5 000	5 000
Recovered (b)	61 000	60 000	65 000	65 000	65 000
Spain					
Recovered (a)	544 000	560 000	488 000	541 000	547 000
Recovered (b)	140 000	145 000	145 000	...	...
Sweden					
Recovered (a)	177 600	180 200	185 800	180 000	180 000
Recovered (b)	51 065	62 454	62 238	59 839	68 391
Turkey					
Pyrites	34 000	28 000	20 000	55 000	59 000
Recovered (b) (c)	23 000	94 000	68 000	76 000	73 000
United Kingdom					
Recovered (a)	66 400	4 800	—	—	—
Recovered (d)	125 000	115 000	120 000	124 000	115 000
EU32 Total					
Pyrites	269 000	304 000	304 000	239 000	259 000
Frasch	760 320	762 689	821 489	801 799	800 200
Recovered	7 100 000	7 000 000	6 800 000	7 000 000	7 100 000

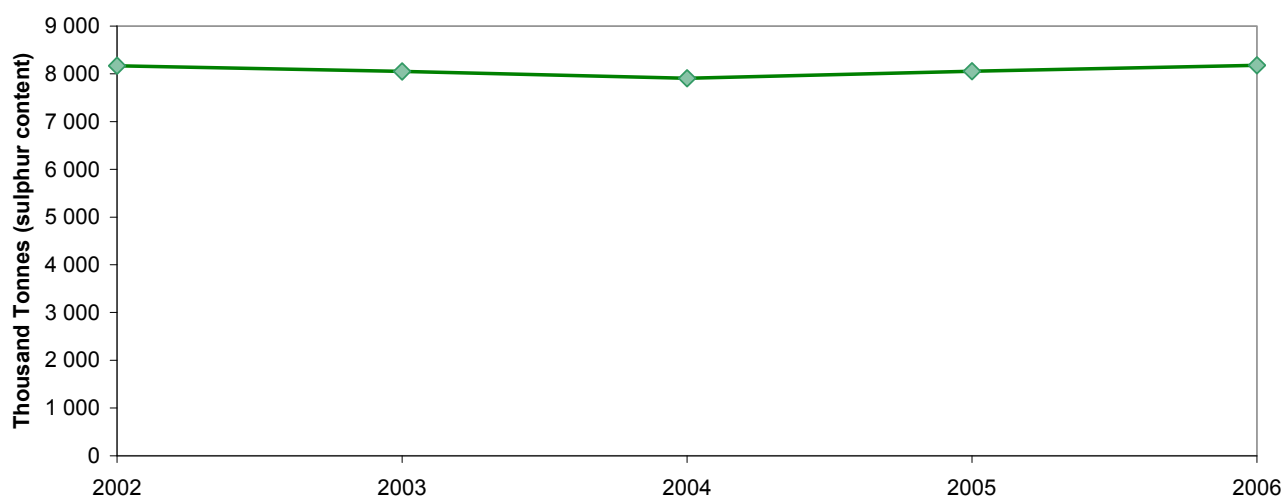
Note(s):-

(a) From metal sulphide processing

(b) From petroleum refining and/or natural gas

(c) Other

EU32 Production of sulphur and pyrites 2002 - 06



Exports of sulphur and pyrites

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Pyrites	...	...	2 418	2 641	2 881
Sulphur, sublimed & precipitated	14 596	9 265	8 435	9 245	5 318
Belgium-Luxembourg					
Sulphur	44 882	40 984	36 824	47 927	38 494
Sulphur, sublimed & precipitated	291	350	338	290	465
Bulgaria					
Sulphur	25 306	21 478	20 103	25 019	31 737
Croatia					
Sulphur	7 150	7 505	8 505	8 028	6 606
Czech Republic					
Sulphur	7 410	10 087	9 787	9 294	11 718
Sulphur, sublimed & precipitated	118	134	1 581	503	113
Denmark					
Sulphur	1 182	1 598	2 608	332	176
Finland					
Pyrites (a)	*282 000	*266 000	*279 000	*100 000	*73 000
France					
Sulphur, crude	385 326	382 273	481 226	347 690	(c) 294 003
Sulphur, refined	10 988	16 851	16 076	13 904	...
Sulphur, sublimed & precipitated	764	652	562	642	619
Germany					
Pyrites	483	389	339	240	486
Sulphur, crude	943 122	856 707	854 548	862 753	(c) 796 341
Sulphur, refined	35 614	41 163	40 135	36 067	...
Sulphur, sublimed & precipitated	5 184	4 021	276	163	102
Greece					
Pyrites	...	23	6 920	4 306	16 495
Sulphur	44	338	3 385	138	43 773
Hungary					
Sulphur	28 389	...	22 607	36 472	...
Italy					
Pyrites	9 547	8 185	7 384	4 763	8 646
Sulphur, crude	...	14 358	8 785	41 534	...
Sulphur, refined	(b) 155 173	136 717	156 833	183 869	(b) 253 472
Sulphur, sublimed & precipitated	251	5 693	930	2 159	36 881
Lithuania					
Sulphur	14 094	16 724	13 960	3 851	1
Netherlands					
Pyrites	16 401	...	76 812	82 502	531
Sulphur, crude	118 053	223 880	133 553	55 758	...
Sulphur, refined	143 272	98 196	170 473	192 922	(b) 436 669
Norway					
Sulphur, sublimed & precipitated	11 630	12 194	2 671	—	—
Poland					
Sulphur	597 905	530 180	560 340	575 796	478 736
Sulphur, sublimed & precipitated	...	...	13 706	17 364	18 426
Portugal					
Sulphur	20 172	9 847	10 838	28 122	9 747
Sulphur, sublimed & precipitated	509	408	121	80	500
Romania					
Sulphur	5 505	12 974	20 682	54 917	43 255
Slovakia					
Sulphur, sublimed & precipitated	44 610	48 534	65 648	60 776	63 019
Spain					
Sulphur, crude	39 389	29 959	45 034	32 557	(c) 76 771
Sulphur, refined	13 476	12 746	8 704	13 133	...
Sulphur, sublimed & precipitated	69	575	79	124	338
Sweden					
Sulphur	493	9 572	4 542	16 883	12 071
Sulphur, sublimed & precipitated	2	0	139	239	5 719
Turkey					
Sulphur	2 530	1 251	534	638	...
Sulphur, sublimed & precipitated	1 641	141	75	127	108

Sulphur and Pyrites

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
United Kingdom					
Sulphur	580	476	700	431	756
Sulphur, sublimed & precipitated	657	836	1 387	1 458	1 312

Note(s):-

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

(b) Included with crude

(c) Including refined

Imports of sulphur and pyrites

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Pyrites	1 064	2 107	3 126	3 251	3 537
Sulphur	44 365	64 198	58 218	60 054	70 350
Sulphur, sublimed & precipitated	237	388	6 339	9 589	10 850
Belgium-Luxembourg					
Sulphur, crude	155 665	152 598	152 830	167 624	...
Sulphur, refined	218 830	241 917	305 518	322 649	(b) 574 515
Sulphur, sublimed & precipitated	25	103	28	127	156
Bulgaria					
Sulphur	325	407	903	1 076	767
Croatia					
Sulphur	39 190	46 017	63 606	70 897	86 431
Sulphur, sublimed & precipitated	1 738	3 611	4 817	1 923	3 492
Cyprus					
Sulphur	939	1 370	1 226	1 356	893
Czech Republic					
Sulphur	51 922	52 784	34 787	16 983	40 147
Sulphur, sublimed & precipitated	39 772	49 164	70 159	89 595	70 555
Denmark					
Sulphur	8 616	8 210	7 883	7 066	2 335
Finland					
Sulphur	26 123	19 575	8 238	310	11 925
France					
Pyrites	7 314	3 359	5 643	4 521	2 533
Sulphur, crude	42 855	50 147	43 846	39 973	...
Sulphur, refined	74 225	56 388	27 041	42 353	(b) 72 785
Sulphur, sublimed & precipitated	2 622	2 488	12 555	5 809	2 439
Germany					
Pyrites	51 479	42 170	53 264	62 686	76 343
Sulphur	31 481	45 962	56 272	46 127	31 267
Sulphur, sublimed & precipitated	1 121	1 448	12 782	4 389	1 363
Greece					
Pyrites	...	...	...	...	31 906
Sulphur	90 577	106 922	83 733	68 765	3 933
Hungary					
Sulphur	1 853	1 426	1 088	1 079	...
Sulphur, sublimed & precipitated	134	67	296	362	326
Irish Republic					
Sulphur, sublimed & precipitated	194	898	1 371	2 327	2 486
Italy					
Pyrites	15 021	12 067	8 929	15 548	17 741
Sulphur, crude	53 623	11 975	8 646	3 150	(a) 11 691
Sulphur, refined	8 330	8 478	10 279	10 497	...
Sulphur, sublimed & precipitated	820	483	281	328	375
Lithuania					
Sulphur	269 602	316 359	255 917	306 635	320 658
Sulphur, sublimed & precipitated	...	...	...	...	607
Netherlands					
Sulphur	58 270	29 631	40 439	37 083	23 928
Sulphur, sublimed & precipitated	55 027	210 984	104 982	37 484	5 563

Sulphur and pyrites

Imports continued

tonnes

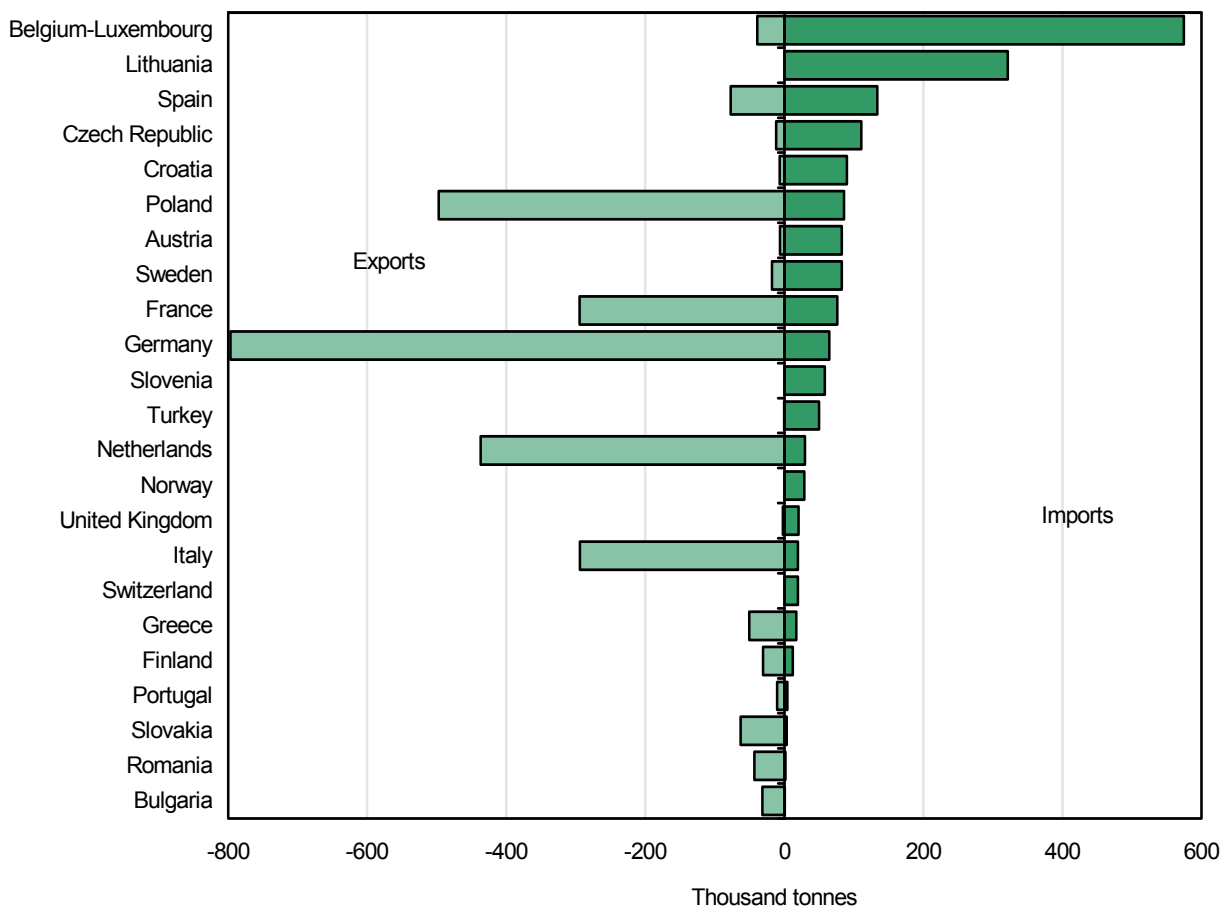
Country	2002	2003	2004	2005	2006
Norway					
Pyrites	225 139	225 492	225 513	26 940	...
Sulphur	1 567	628	4 559	16 413	11 983
Sulphur, sublimed & precipitated	...	...	...	240	5 571
Poland					
Pyrites	504	1 933	1 061	1 013	5 065
Sulphur	98 279	88 544	78 292	78 274	83 432
Sulphur, sublimed & precipitated	120	97	11	3	52
Portugal					
Sulphur	5 981	6 333	3 532	5 878	4 485
Sulphur, sublimed & precipitated	5	5	431	28	3
Romania					
Sulphur	357	5 660	2 075	964	1 413
Sulphur, sublimed & precipitated	13	30	9	113	112
Slovakia					
Sulphur	18 738	7 439	3 582	3 669	3 454
Slovenia					
Pyrites	426	399	375	400	463
Sulphur	49 560	46 289	49 649	58 669	58 159
Spain					
Sulphur, crude	205 049	210 794	220 662	182 318	(a) 133 552
Sulphur, refined	8 219	5 936	13 582	5 778	...
Sulphur, sublimed & precipitated	238	753	533	243	296
Sweden					
Pyrites	386	291	699	319	557
Sulphur	63 948	89 505	61 305	71 337	82 246
Sulphur, sublimed & precipitated	5 010	5 632	2 693	16	23
Switzerland					
Pyrites	239	207	117	76	69
Sulphur	30 140	25 968	24 940	24 977	19 369
Sulphur, sublimed & precipitated	93	193	120	61	50
Turkey					
Sulphur	127 779	124 243	90 502	91 763	49 620
Sulphur, sublimed & precipitated	2 008	4 899	138	110	43
United Kingdom					
Sulphur, crude	(a) 87 260	23 469	44 963	24 222	11 608
Sulphur, refined	...	5 560	3 984	7 263	7 334
Sulphur, sublimed & precipitated	355	544	675	577	1 297

Note(s) :-

(a) Including refined

(b) Including crude

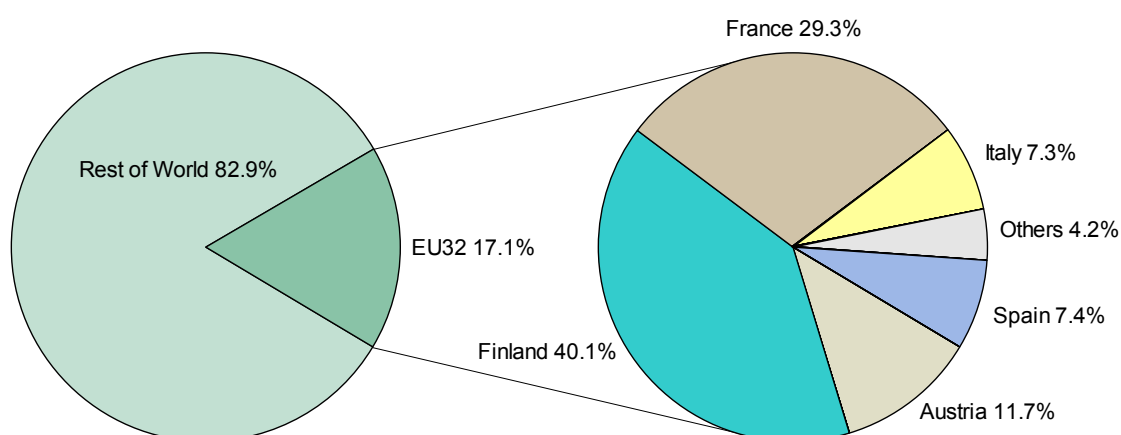
Sulphur and pyrites - EU32 trade in 2006



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 2006 the largest world producer was China (estimated 31% of world production). Within Europe the largest producer is Finland, which accounted for 40% of EU32 production.
- Talc is traded in a variety of forms and, as a result of widespread production, markets are very stable. During 2006 Norwegian, ex-store UK talc traded at between £142–£294/tonne depending on grade.

EU32 Production of talc 2006



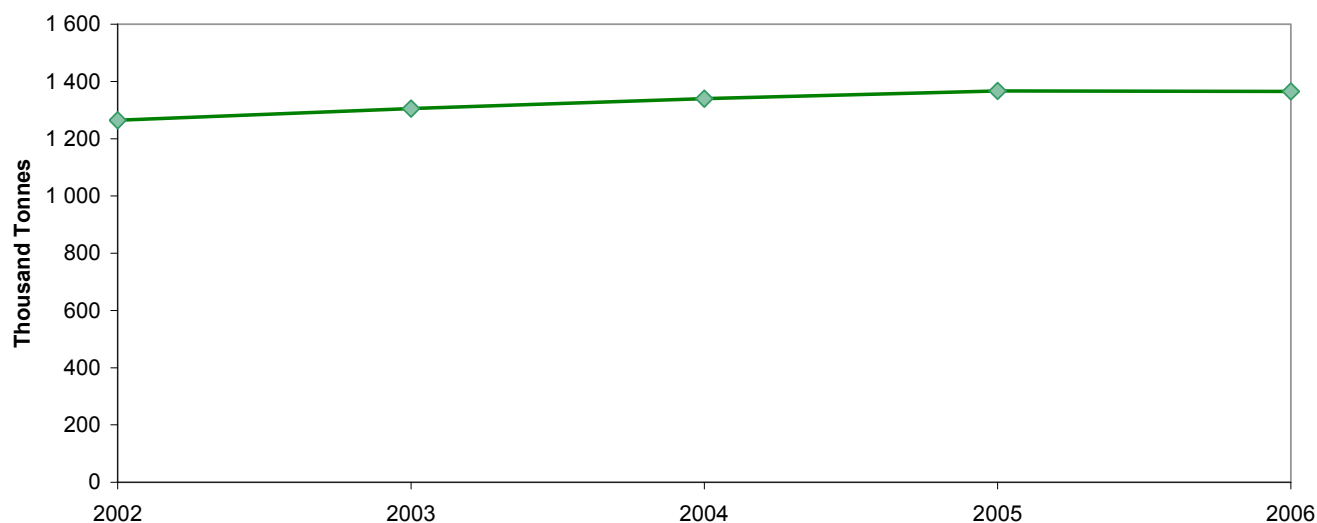
Production of talc

tonnes

Country	2002	2003	2004	2005	2006
Austria	138 195	137 596	136 305	166 569	159 447
Finland	477 229	501 658	528 943	508 169	547 146
France	359 000	394 000	402 000	416 000	*400 000
Germany	*8 000	3 859	...	...	...
Greece	670	500	200	250	*250
Italy	*80 000	*80 000	88 671	99 570	*100 000
Macedonia	4 662	3 271	4 350	1 955	1 025
Norway	43 000	48 000	32 000	34 000	*34 000
Portugal	8 279	5 460	6 231	5 362	5 517
Romania	7 310	10 082	9 725	6 760	2 967
Slovakia	2 290	4 200	7 100	200	—
Spain					
Talc	108 312	101 739	107 829	110 015	100 000
Pyrophyllite	...	900	700	700	...
Sweden	20 000	7 000	8 000	7 000	6 000
United Kingdom	6 194	6 494	3 881	6 000	4 000
EU32 Total	1 263 000	1 305 000	1 336 000	1 363 000	1 365 000

Talc

EU32 Production of talc 2002 - 06



Exports of talc

tonnes

Country	2002	2003	2004	2005	2006
Austria	142 879	174 590	151 022	158 799	165 923
Belgium-Luxembourg	86 924	92 350	128 120	168 900	144 081
Finland (a)	*120 000	*227 000	*276 000	*278 000	*246 000
France	222 699	226 550	262 147	279 659	273 706
Germany	7 088	5 285	3 862	3 906	4 790
Greece	1 853	990	2 566	3 479	4 065
Hungary	15	314	1 533	—	—
Italy	108 467	116 739	118 131	120 920	122 148
Macedonia	589	720	664	789	735
Netherlands	164 515	177 554	225 528	183 270	190 668
Norway	32 894	32 520	30 279	28 448	31 834
Portugal	150	204	1 117	1 614	6 013
Slovakia	1 322	1 205	...	1 051	9
Spain	67 921	67 748	60 832	56 493	47 142
Sweden	14 370	8 061	9 388	10 080	7 556
Switzerland	847	1 777	72	105	73
Turkey	249	436	1 963	2 768	312
United Kingdom	3 833	3 325	3 317	5 244	4 626

Note(s):-

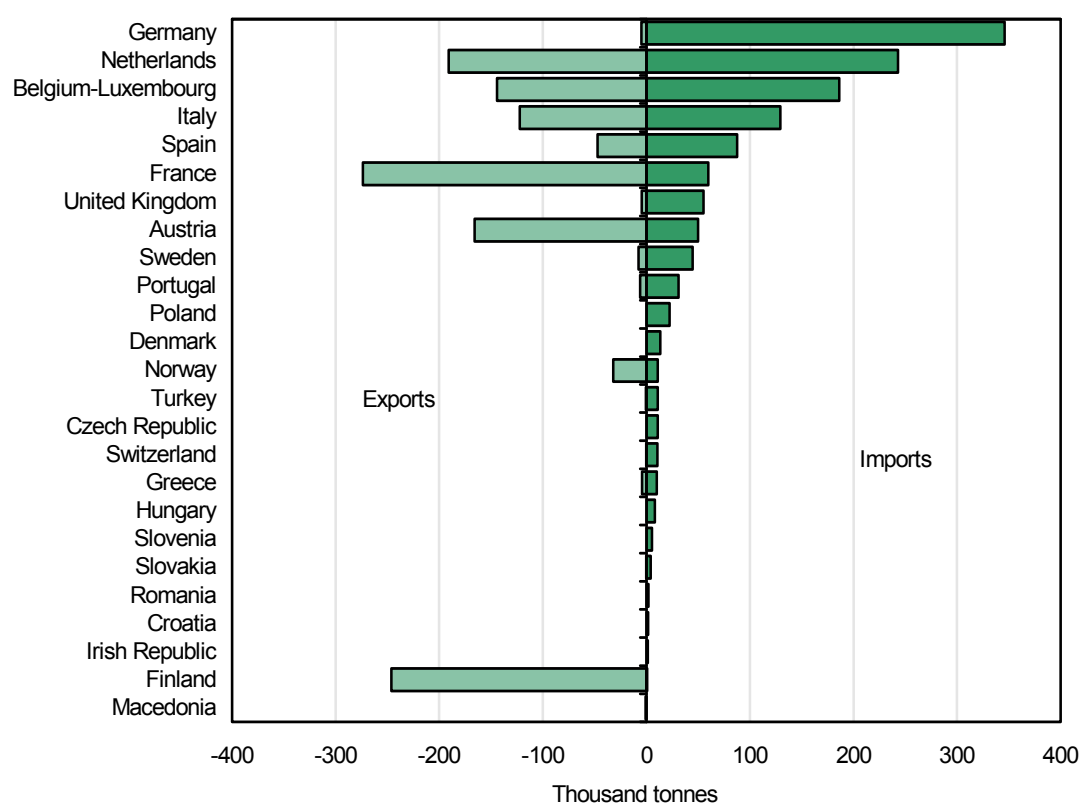
(a) BGS estimates, based on known imports into certain countries

Imports of talc

tonnes

Country	2002	2003	2004	2005	2006
Austria	46 833	30 831	49 930	50 768	49 900
Belgium-Luxembourg	115 112	124 455	135 046	224 624	186 227
Bulgaria	404	465	487	599	626
Croatia	1 587	1 531	1 726	1 378	1 753
Cyprus	202	255	242	386	307
Czech Republic	9 299	10 278	9 426	9 986	10 855
Denmark	16 577	14 407	14 085	14 103	13 299
Estonia	...	246	316	300	295
Finland	3 251	3 971	1 827	866	757
France	43 342	40 650	77 240	76 021	59 853
Germany	263 988	307 374	352 177	376 618	345 863
Greece	4 206	5 316	10 061	9 937	10 000
Hungary	9 576	10 070	9 178	...	8 175
Irish Republic	2 224	2 008	2 508	2 632	1 278
Italy	117 688	127 855	126 745	125 913	129 218
Lithuania	...	64	87	402	463
Malta	146	170	315	302	271
Netherlands	95 121	220 448	226 602	206 485	243 071
Norway	11 557	14 737	14 522	16 488	10 991
Poland	17 989	18 342	16 155	20 536	22 348
Portugal	16 685	17 721	20 203	23 583	30 955
Romania	1 200	1 187	1 609	1 962	2 101
Slovakia	382	369	192	211	4 174
Slovenia	4 706	5 251	5 628	5 383	5 297
Spain	65 691	68 760	80 626	80 726	87 578
Sweden	42 307	45 509	43 288	45 376	44 669
Switzerland	12 916	11 490	9 579	10 254	10 786
Turkey	10 937	11 227	16 810	15 312	10 900
United Kingdom	66 119	59 172	66 722	65 496	55 200

Talc - EU32 trade in 2006



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 2006 was dominated by Australia (approximately 60%) and the largest producer of niobium ores was Brazil (> 90%). There was no production in the EU32, which is entirely import dependent.
- Tantalum is normally traded in oxide form (tantalite). During 2006 the average price for tantalite (Europe 40% basis) was US\$35/lb Ta₂O₅.

Exports of tantalum and niobium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Tantalum	43	...	—	—	—
Czech Republic					
Tantalum	40	55	84	68	53
Estonia					
Tantalum	...	25	39	65	51
France					
Tantalum	207	3	20	101	9
Germany					
Niobium & tantalum ores	545	174	93	...	...
Tantalum	719	323	337	190	294
Italy					
Tantalum	50	1	2	1	0
Netherlands					
Tantalum	21	23	24	3	76
Portugal					
Tantalum	...	18	42	15	4
Switzerland					
Tantalum	...	8	14	27	17
United Kingdom					
Tantalum	280	278	77	131	83

Note(s):-

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

Imports of tantalum and niobium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Tantalum	3	54	64	0	0
Belgium-Luxembourg					
Tantalum	7	41	20	1	0
Czech Republic					
Tantalum	128	168	261	141	164
France					
Tantalum	42	41	67	23	55
Germany					
Tantalum	274	239	281	164	148
Irish Republic					
Tantalum	2	2	2	8	2
Lithuania					
Tantalum	...	7	12	10	11
Netherlands					
Tantalum	15	4	35	12	6

Imports continued					
	tonnes				
Country	2002	2003	2004	2005	2006
Portugal					
Tantalum	171	69	68	115	103
Spain					
Tantalum	...	30	4	62	10
United Kingdom					
Tantalum	3 480	842	243	97	119

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 17 countries, of which China was the largest producer during 2006 (36% of world total). EU32 production from Portugal fell to 25 tonnes – 10% of the previous year.
- The tin price rose 26% in the first quarter taking the price to a 10 month high to around US\$8000/tonne in March. The price continued to rise throughout the year ending on around US\$11000/tonne.

Mine production of tin

tonnes (metal content)

Country	2002	2003	2004	2005	2006
Portugal	345	203	200	243	25

EU32 Mine production of tin 2002 - 06



Smelter production of tin

tonnes

Country	2002	2003	2004	2005	2006
Belgium	8 900	7 700	8 900	7 700	8 000

Exports of tin

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought (a)	115	151	153	116	110
Scrap	363	153	278	62	125
Belgium-Luxembourg					
Concentrates	...	...	186	286	118
Unwrought	8 883	7 538	8 803	6 814	1 633
Unwrought alloys	138	171	184	388	7 421
Scrap	28	601	607	362	216
Czech Republic					
Unwrought (a)	20	66	191	381	74
Scrap	15	25	130	65	249
Denmark					
Scrap	90	110	178	68	124
Estonia					
Scrap	18	8	7	125	17
Finland					
Unwrought alloys	33	9	46	60	90
Scrap	104	126	86	58	89
France					
Unwrought	354	577	430	324	368
Unwrought alloys	659	612	527	1 020	1 010
Scrap	618	279	457	478	893
Germany					
Concentrates	...	...	...	163	331
Unwrought	1 137	909	978	1 343	1 015
Unwrought alloys	1 077	481	408	329	392
Scrap	719	849	994	701	965
Irish Republic					
Concentrates	250	172	190	151	110
Unwrought (a)	77	29	103	67	71
Scrap	109	21	140	...	54
Italy					
Unwrought (a)	497	458	406	503	437
Scrap	191	201	180	17	269
Latvia					
Scrap	...	...	...	20	307
Netherlands					
Unwrought	4 138	4 278	3 921	5 330	6 971
Unwrought alloys	205	240	1 430	1 790	1 051
Scrap	643	344	685	297	761
Norway					
Scrap	...	14	211	323	236
Poland					
Unwrought	18	14	64	115	174
Portugal					
Concentrates	537	266	147	—	0
Spain					
Unwrought (a)	738	179	205	139	120
Scrap	1 169	198	221	435	408
Sweden					
Unwrought (a)	313	238	261	217	250
Scrap	178	88	161	45	43
Switzerland					
Unwrought (a)	25	112	72	29	160
Scrap	60	73	107	157	130
United Kingdom					
Concentrates	24	29	0	2	4
Unwrought	381	283	524	1 608	8 395
Unwrought alloys	2 165	2 152	885	442	698
Scrap	2 821	4 499	7 353	20 603	35 252

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

Tin

Imports of tin

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought (a)	906	702	765	1 926	2 177
Scrap	208	174	170	79	23
Belgium-Luxembourg					
Concentrates	32	74	329	377	154
Unwrought	1 223	490	1 686	1 210	1 312
Unwrought alloys	2 464	2 737	3 421	1 284	1 368
Scrap	4 756	4 816	5 726	1 382	4 866
Bulgaria					
Unwrought	80	65	39	49	278
Croatia					
Unwrought (a)	89	95	67	62	73
Czech Republic					
Unwrought (a)	531	635	550	634	665
Finland					
Unwrought (a)	149	151	126	178	173
France					
Unwrought	9 044	9 693	9 167	7 307	8 159
Unwrought alloys	169	701	638	1 080	931
Scrap	541	148	24	217	182
Germany					
Unwrought	20 524	20 904	21 258	20 438	21 584
Unwrought alloys	744	381	453	554	936
Scrap	400	505	408	506	917
Greece					
Unwrought (a)	382	598	671	615	244
Hungary					
Unwrought (a)	219	91	155	192	384
Irish Republic					
Unwrought (a)	271	171	462	307	211
Italy					
Concentrates	2	—	241	24	572
Unwrought	6 507	6 201	5 610	5 899	5 526
Unwrought alloys	190	105	95	135	392
Netherlands					
Unwrought	7 008	7 368	6 801	8 730	13 696
Unwrought alloys	1 162	1 330	1 832	1 983	1 283
Scrap	388	202	155	201	466
Norway					
Unwrought	458	382	47	21	23
Unwrought alloys	176	71	79	57	103
Poland					
Unwrought (a)	1 344	1 077	1 367	1 437	1 583
Scrap	...	...	697	705	1 653
Portugal					
Unwrought	1 223	781	434	971	763
Unwrought alloys	29	63	71	100	274
Romania					
Unwrought (a)	245	291	188	216	421
Slovakia					
Unwrought (a)	800	1 091	2 034	2 610	2 246
Spain					
Concentrates	225	101	160	137	29
Unwrought	6 967	8 072	7 860	7 109	7 716
Unwrought alloys	58	90	292	170	220
Scrap	4 842	2 400	2 111	1 919	1 576
Sweden					
Unwrought	596	421	468	551	697
Unwrought alloys	400	379	256	210	141
Scrap	57	71	39	60	37
Switzerland					
Unwrought (a)	893	803	726	909	1 042
Turkey					
Unwrought (a)	1 801	1 966	2 314	2 731	1 274

Imports of tin

tonnes

Country	2002	2003	2004	2005	2006
United Kingdom					
Unwrought	7 151	7 488	5 861	4 812	3 558
Unwrought alloys	1 437	2 378	1 145	2 067	891
Scrap	188	168	215	468	1 728

Note(s) :-

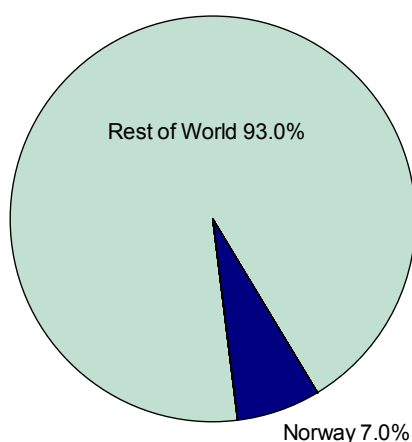
(1) In this table the term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc.

(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 2006 Australia was the world's largest producer of titanium minerals; Canada and South Africa were also major producers. EU32 production is restricted to Norway, which produced about 7% of the world total in 2006.
- At the close of 2006, ilmenite (Australian, min 54% TiO₂, FOB, bulk concentrates) traded at US\$75–85/tonne. Rutile, which has a higher TiO₂ content (Australian concentrate, min. 95% TiO₂ FOB, bulk pigment grade), traded between US\$450–500/tonne. Prices for titanium sponge decreased due to supply increases from a high of US\$30/kg in 2005 to around US\$22.50/kg.

EU32 Production of titanium minerals 2006



Production of titanium minerals

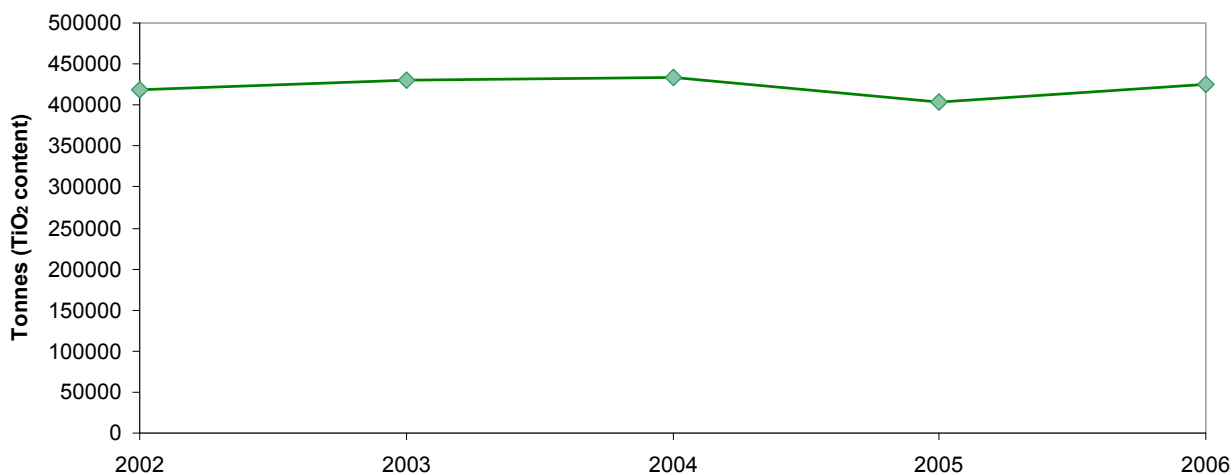
tonnes

Country	2002	2003	2004	2005	2006
Norway					
Ilmenite	837 000	859 000	866 700	806 800	850 000
EU32 Total (TiO₂ content)	419 000	430 000	433 000	403 000	425 000

Note(s):-

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

EU32 Production of titanium minerals 2002 - 06



Exports of titanium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	300	340	397	317	513
Oxides	3 000	2 404	2 640	3 457	3 976
Belgium-Luxembourg					
Titanium minerals	113 342	123 823	139 393	131 597	100 498
Titanium slag	...	...	...	4 219	20 830
Metal	1 296	1 214	1 031	1 093	1 490
Oxides	314 469	348 005	397 481	366 632	401 614
Czech Republic					
Titanium minerals	106	177	873	340	492
Metal	82	239	191	358	424
Oxides	34 258	33 354	37 673	40 707	43 010
Denmark					
Metal	120	185	166	184	146
Oxides	1 000	578	1 304	1 136	1 134
Estonia					
Metal	316	336	188	31	49
Finland					
Metal	26	30	22	44	35
Oxides (a)	*127 000	*84 000	*98 000	*104 000	*103 000
France					
Metal	4 180	3 722	4 086	5 891	5 722
Oxides	199 744	180 080	172 796	157 543	167 807
Germany					
Titanium minerals	541	778	319	607	490
Metal	6 581	6 705	8 048	8 911	8 893
Oxides	323 059	331 806	356 007	359 946	400 832
Greece					
Oxides	1 412	1 624	1 835	2 373	1 861
Hungary					
Oxides	...	163	278	126	324
Italy					
Titanium slag	...	...	...	1 499	...
Metal	3 727	3 159	4 439	4 130	4 101
Oxides	28 434	28 323	28 476	25 433	22 473
Netherlands					
Titanium minerals	1 093	3 611	4 050	1 390	1 660
Metal	2 344	2 015	1 846	2 181	1 902
Oxides	80 663	(a) *65 100	92 050	84 310	95 512
Norway					
Titanium minerals	443 833	500 000	(a) *416 000	(a) *382 000	(a) *477 000
Metal	103	214	182	159	176
Oxides (a)	*240 000	*229 000	*193 000	*177 000	*221 000
Poland					
Metal	5	1	25	740	917
Oxides	30 457	23 977	20 818	24 394	25 598
Romania					
Metal	80	94	277	255	579
Slovenia					
Oxides	38 484	35 655	38 497	44 123	50 755
Spain					
Metal	376	697	483	903	2 005
Oxides	73 320	70 052	85 867	83 905	85 307
Sweden					
Metal	1 256	1 004	1 737	1 955	1 461
Oxides	11 058	11 713	13 912	14 306	20 409
Switzerland					
Metal	400	398	562	560	692
Oxides	666	499	740	1 020	1 024
Turkey					
Metal	2	7	20	30	17

Titanium

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
United Kingdom					
Metal	11 511	10 084	11 913	17 212	14 028
Oxides	238 884	242 541	234 591	215 741	182 246

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	2002	2003	2004	2005	2006
Austria					
Titanium minerals	1 044	675	494	349	575
Metal	1 062	441	943	1 691	1 873
Oxides	19 478	18 528	18 612	25 640	27 485
Belgium-Luxembourg					
Ilmenite	9 889	11 632	...	—	720
Other titanium minerals	132 921	164 624	165 288	165 711	156 771
Titanium slag	41 594	...	...	...	...
Metal	1 516	1 712	1 868	2 289	1 857
Oxides	271 627	272 441	339 444	291 670	314 131
Bulgaria					
Titanium minerals	653	2 979	407	1 287	300
Oxides	2 448	3 156	3 332	3 959	4 750
Croatia					
Oxides	2 081	2 327	2 401	2 561	2 827
Cyprus					
Oxides	1 032	1 172	1 172	1 286	1 227
Czech Republic					
Titanium minerals	60 976	74 709	53 570	80 407	149 925
Metal	372	620	800	1 143	1 155
Oxides	4 307	5 462	6 773	8 008	8 734
Denmark					
Metal	737	745	778	770	788
Oxides	23 967	21 022	22 269	23 156	24 678
Estonia					
Metal	302	234	113	216	12
Oxides	1 090	1 082	235	1 344	1 726
Finland					
Titanium minerals	...	...	...	5 080	34 403
Oxides	10 335	11 390	13 163	14 380	14 788
France					
Ilmenite	151 799	127 083	48 930	60 205	83 499
Other titanium minerals	12 291	34 984	81 141	86 552	78 849
Titanium slag	123 144	...	61 456	111 137	107 092
Metal	6 461	5 689	8 259	9 403	9 431
Oxides	138 316	151 809	140 068	119 699	135 309
Germany					
Ilmenite	307 791	349 819	315 214	333 603	414 037
Other titanium minerals	131 844	175 660	225 849	224 675	253 392
Titanium slag	52 787	41 319	—	—	17 403
Metal	10 532	10 044	14 756	15 978	18 426
Oxides	192 414	211 539	237 464	240 554	269 812
Greece					
Titanium minerals	816	313	563	528	440
Oxides	17 646	22 801	27 241	25 592	25 372
Hungary					
Metal	215	367	387	107	238
Oxides	7 941	8 247	8 677	7 523	7 845

Titanium

Imports continued

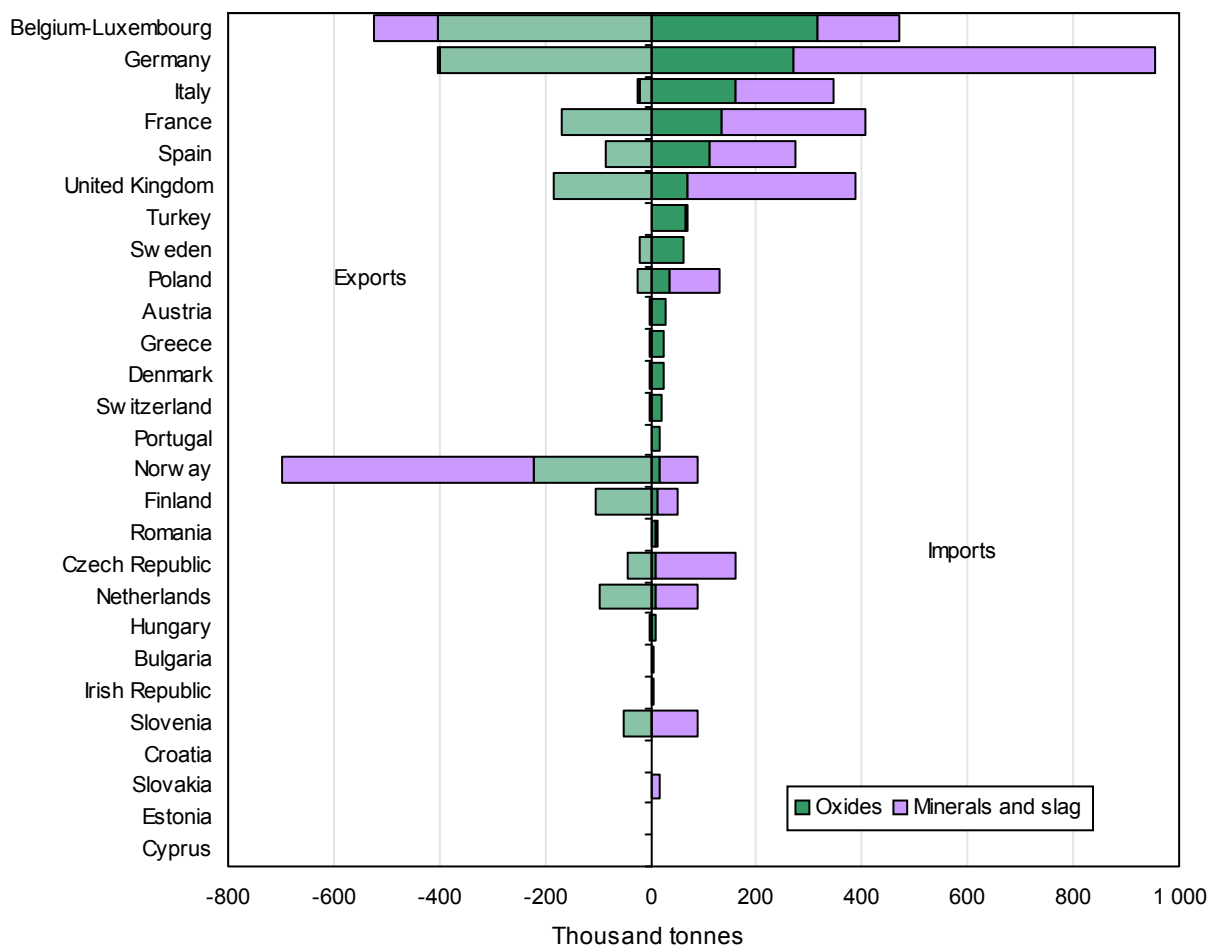
tonnes

Country	2002	2003	2004	2005	2006
Irish Republic					
Metal	102	107	151	290	350
Oxides	5 070	5 095	5 685	5 059	4 703
Italy					
Titanium minerals	99 830	123 862	88 361	85 607	185 121
Metal	5 052	4 738	6 580	5 186	6 248
Oxides	157 476	149 238	158 592	154 950	161 253
Latvia					
Oxides	1 132	2 032	1 232	726	833
Lithuania					
Oxides	...	648	713	926	975
Macedonia					
Oxides	390	408	430	466	471
Netherlands					
Titanium minerals	104 309	123 129	154 460	127 941	79 377
Metal	2 806	2 676	2 835	1 857	2 234
Oxides	44 525	33 290	47 957	92 334	8 387
Norway					
Titanium minerals	...	...	...	33 000	73 690
Metal	386	557	505	636	661
Oxides	7 931	8 729	10 026	11 924	16 013
Poland					
Titanium minerals	73 655	101 284	98 214	100 539	95 057
Metal	163	151	271	328	2 550
Oxides	30 029	30 546	29 710	33 417	36 943
Portugal					
Oxides	20 230	18 922	20 120	17 458	18 565
Romania					
Titanium minerals	1 993	2 192	2 334	2 111	1 809
Metal	...	83	195	328	486
Oxides	4 742	5 454	6 378	7 600	9 794
Slovakia					
Titanium minerals	...	...	6 407	17 627	12 648
Oxides	429	2 701	2 173	2 804	2 742
Slovenia					
Titanium minerals	7 805	24 652	11 610	21 054	22 825
Metal	127	118	300	614	392
Oxides	2 936	3 219	3 033	3 157	3 153
Spain					
Ilmenite	153 688	128 692	172 431	121 204	159 090
Other titanium minerals	2 315	2 296	2 316	1 746	1 807
Metal	3 241	2 974	3 722	3 862	5 782
Oxides	107 418	100 814	116 397	117 203	112 778
Sweden					
Titanium minerals	439	320	389	300	911
Metal	2 000	1 707	1 856	1 382	2 294
Oxides	43 260	44 721	44 812	50 099	62 841
Switzerland					
Metal	621	535	735	1 273	1 357
Oxides	18 265	18 689	19 349	19 055	18 805
Turkey					
Titanium minerals	5 876	5 591	10 435	6 755	2 941
Oxides	61 927	68 613	85 832	91 083	65 257
United Kingdom					
Ilmenite	106 177	113 852	110 596	80 435	175 882
Other titanium minerals	82 303	111 754	113 852	109 238	48 147
Titanium slag	157 020	44 890	151	64 849	91 603
Metal	25 319	25 126	27 401	27 938	30 267
Oxides	95 583	74 138	74 787	67 102	71 528

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

Titanium - EU32 trade in 2006



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 2006 was 83% of the world total, and it was also the largest exporter. There was minor production from Austria and Portugal but overall the EU32 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).
- The price increases in tungsten concentrates seen in 2005 continued in 2006 with prices averaging US\$165/metric tonne unit on the European market, driven by strong demand.

Mine production of tungsten

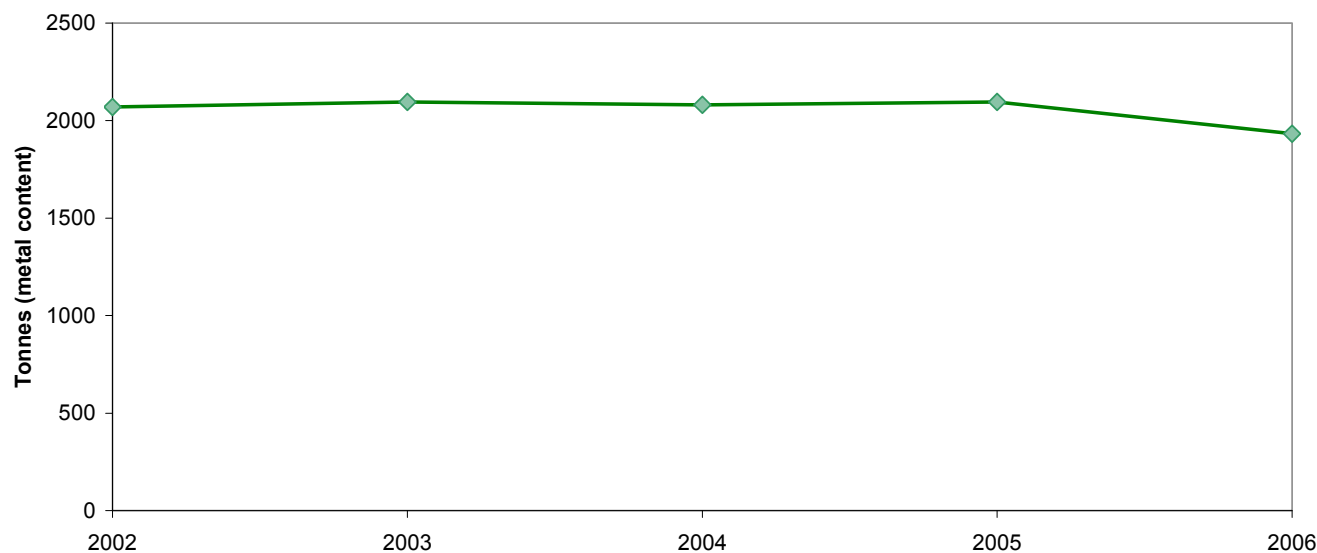
tonnes (metal content)

Country	2002	2003	2004	2005	2006
Austria	1 377	1 381	1 335	1 280	1 153
Portugal (a)	693	715	746	816	780
EU32 Total	2 070	2 096	2 081	2 096	1 933

Note(s):-

(a) Wolframite and scheelite

EU32 Production of tungsten 2002 - 06



Tungsten

Exports of tungsten

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Metal	813	(a) *1 300	(a) *2 400	(a) *2 100	(a) *2 000
Belgium-Luxembourg					
Metal	259	374	404	452	484
Carbide	21	35	39	25	62
Czech Republic					
Metal	251	108	133	185	142
Denmark					
Metal	37	13	26	5	86
Estonia					
Ores & concentrates	2	127	...	...	...
Metal	4	196	1	3	1
Finland					
Metal	49	67	91	77	80
France					
Metal	624	538	571	574	617
Carbide	348	241	251	265	343
Germany					
Metal	1 735	2 209	2 816	4 020	4 320
Hungary					
Metal	74	56	64	24	49
Irish Republic					
Metal	38	41	72	963	183
Italy					
Metal	129	191	357	233	197
Latvia					
Metal	42	84	32	4	3
Netherlands					
Ores & concentrates	16	1	16	—	276
Metal	469	237	777	502	434
Poland					
Metal	1	34	89	84	89
Portugal					
Ores & concentrates	588	...	900	1 425	1 305
Metal	693	143	217	12	14
Slovakia					
Metal	15	11	...	16	66
Spain					
Metal	109	158	141	77	59
Sweden					
Metal	364	334	102	414	296
Carbide	385	68	114	37	491
Switzerland					
Metal	185	244	268	316	270
United Kingdom					
Metal	1 667	2 053	1 267	1 732	2 100
Carbide	5	70	92	83	251

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	2002	2003	2004	2005	2006
Austria					
Metal	235	271	400	825	670
Carbide	428	148	136	42	22
Belgium-Luxembourg					
Metal	279	404	372	340	454
Carbide	70	51	42	42	64
Czech Republic					
Metal	65	73	116	173	197
Denmark					
Metal	15	5	103	307	523
Estonia					
Ores & concentrates	12	121	...	...	...
Finland					
Metal	113	169	119	121	21
France					
Metal	422	448	568	784	925
Carbide	604	695	692	592	898
Germany					
Ores & concentrates	129	195	389	493	512
Metal	3 024	4 874	4 976	5 515	4 450
Carbide	1 103	1 419	1 520	1 802	1 366
Irish Republic					
Metal	152	331	177	292	173
Italy					
Metal	236	258	321	257	236
Carbide	324	318	299	337	365
Netherlands					
Ores & concentrates	195	342	222	110	1 532
Metal	80	217	210	204	330
Carbide	44	18	56	99	49
Poland					
Metal	68	42	46	108	111
Portugal					
Metal	28	103	153	179	106
Carbide	79	96	109	105	97
Spain					
Metal	83	179	259	134	556
Carbide	64	48	59	38	35
Sweden					
Metal	136	470	559	502	563
Carbide	688	665	747	925	738
Switzerland					
Metal	152	139	170	235	146
United Kingdom					
Metal	2 121	1 932	1 903	3 204	4 607
Carbide	759	1 232	838	974	913

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 four countries of which Russia (estimated 38%) and South Africa (32%) are the largest producers. There is no EU32 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. US prices for both V₂O₅ and ferrovanadium followed a similar pattern. V₂O₅ started 2006 at US\$9.00/lb, peaked at US\$9.65/lb in February and then declined gradually to US\$6.70/lb at the end of the year. Ferrovanadium began the year at US\$40.00/kg, peaking at US\$48.00/kg in February and then gradually falling to US\$33.50/kg.

Exports of vanadium

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Vanadiferous residues	3 414	3 129	...	...	...
Ores & concentrates	218	748	1 456	2 600	791
Pentoxide	46	22	9	2	13
Denmark					
Vanadium-titanium pig iron	193	...	...	...	...
France					
Pentoxide	8	183	138	13	10
Metal	0	0	26	25	63
Germany					
Ores & concentrates	...	127	1 060	4 680	2 372
Pentoxide	81	102	296	...	1 444
Metal	351	483	522	1 469	573
Italy					
Ores & concentrates	2 401	1 691	1 267	1 092	1 291
Netherlands					
Pentoxide	87	219	1 167	381	411
Metal	71	379	5	11	6
Turkey					
Pentoxide	...	680	900	940	—
United Kingdom					
Metal	1 425	1 137	1 075	433	70

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	2002	2003	2004	2005	2006
Austria					
Vanadiferous residues	*25 000	*25 000	*27 000	*29 000	*29 000
Ores & concentrates	488	459	467	1 565	792
Pentoxide	1 042	(a) *400	(a) *1 000	(a) *260	(a) *568
Metal	7	2	9	—	—
Belgium-Luxembourg					
Ores & concentrates	483	1 379	1 116	894	197
Pentoxide	2 981	57	3	267	12
Metal	501	238	32	60	67
Czech Republic					
Pentoxide	4 162	4 898	5 429	3 831	4 858
France					
Ores & concentrates	126	1	...	21	—
Pentoxide	382	496	441	556	533
Metal	54	34	72	88	71
Germany					
Pentoxide	538	802	648	741	1 222
Metal	88	106	159	193	173
Italy					
Pentoxide	153	129	134	156	209
Netherlands					
Pentoxide	815	865	1 718	714	362
Norway					
Metal	41	55	32	10	63
Poland					
Metal	...	...	32	32	35
Slovenia					
Metal	27	22	21	89	25
Spain					
Pentoxide	81	36	118	62	71
Sweden					
Metal	49	49	46	20	40
United Kingdom					
Pentoxide	962	363	306	339	472
Metal	171	256	338	812	407

Note(s) :-

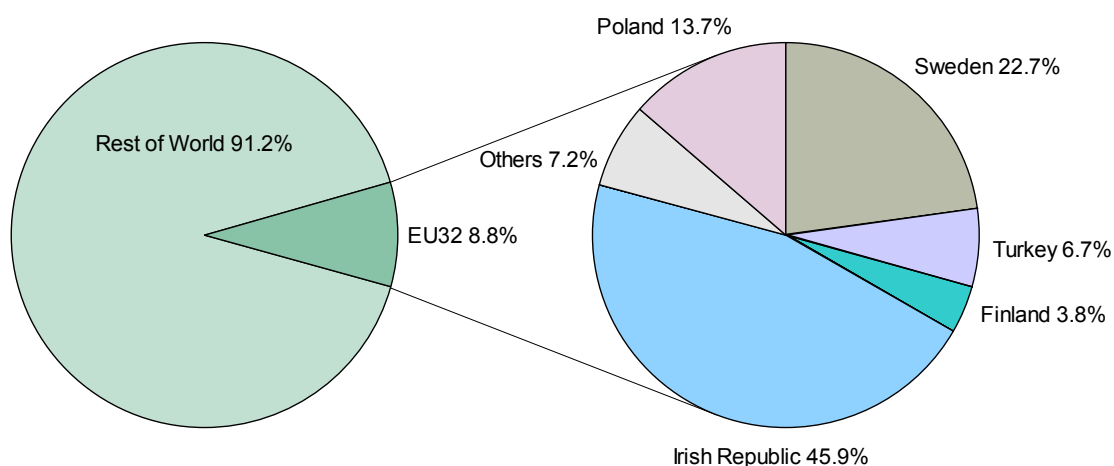
- (1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any
(2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(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 (29%) was the world's largest mine producer during 2006. The Irish Republic was the largest mine producer in the EU32 (46%). A number of EU32 countries have major zinc refineries.
- As demand significantly exceeded supply in the refined zinc metal market for the third successive year in 2006, prices continued to rise. The LME cash settlement price peaked at a record US\$4620/t in November.

EU32 Mine production of zinc 2006

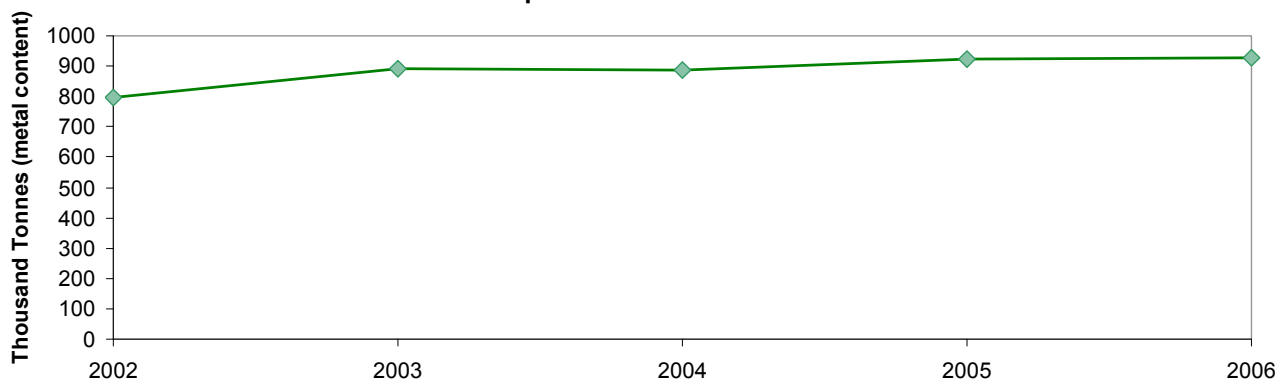


Mine production of zinc

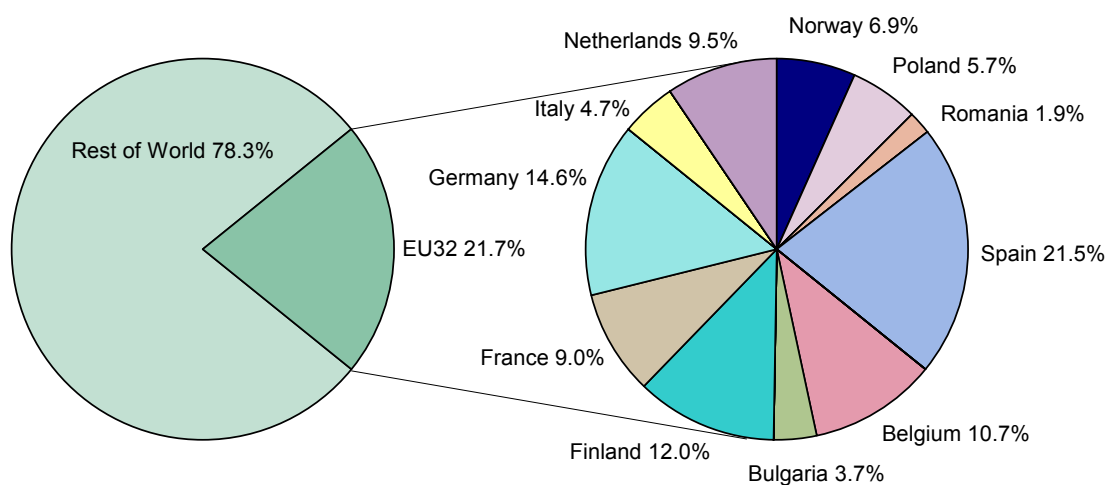
tonnes (metal content)

Country	2002	2003	2004	2005	2006
Bulgaria	12 900	13 000	*12 700	*12 000	*10 400
Finland	34 100	38 800	37 200	40 500	35 700
Greece	35 000	3 000	—	4 000	18 000
Irish Republic	276 700	419 000	438 300	445 400	425 800
Macedonia	2 133	—	—	—	21 672
Poland	152 100	154 277	140 381	135 600	126 600
Portugal	—	—	—	—	7 505
Romania	21 512	22 081	23 599	13 784	9 574
Spain	69 926	15 140	—	—	—
Sweden	148 620	185 884	197 034	215 691	210 029
Turkey	43 000	40 000	39 000	56 000	62 000
EU32 Total	760 000	891 000	888 000	923 000	927 000

EU32 Mine production of zinc 2002 - 06



EU32 Production of slab zinc 2006

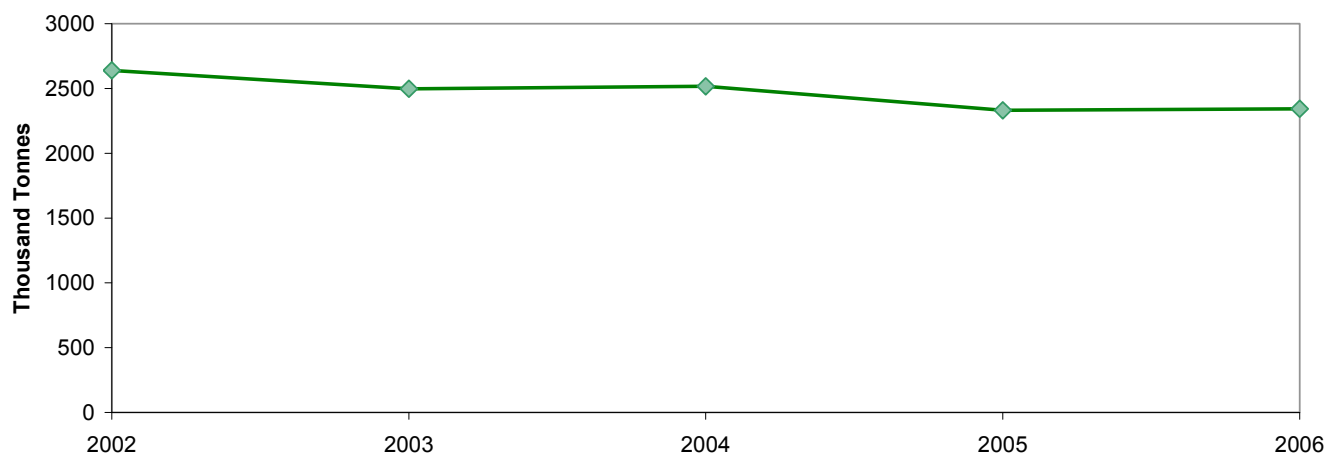


Production of slab zinc

tonnes

Country	2002	2003	2004	2005	2006
Belgium	238 700	244 400	272 500	222 000	251 000
Bulgaria	83 000	86 800	101 500	92 500	85 900
Finland	235 300	265 900	284 525	281 904	282 238
France	333 300	257 000	260 000	209 000	210 000
Germany	378 561	388 131	382 020	334 900	342 600
Italy	175 800	123 100	118 400	121 200	109 200
Macedonia	48 599	23 746	—	—	—
Netherlands	203 460	224 000	224 000	227 500	221 500
Norway	144 538	143 627	140 901	148 000	160 670
Poland	158 900	154 200	155 500	137 300	133 900
Romania	38 000	51 000	52 746	56 795	43 705
Spain	503 000	519 000	525 000	501 400	502 800
United Kingdom	99 600	16 600	—	—	—
EU32 Total	2 641 000	2 498 000	2 517 000	2 332 000	2 344 000

EU32 Production of slab zinc 2002 - 06



Zinc

Exports of zinc

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Unwrought (a)	34 705	36 012	37 304	13 469	19 981
Scrap	3 763	2 984	2 000	3 559	4 329
Belgium-Luxembourg					
Ores & concentrates	101 157	232 845	384 652	511 730	540 810
Unwrought	114 430	130 356	136 768	10 058	13 275
Scrap	28 597	19 485	26 546	37 754	57 851
Bulgaria					
Unwrought (a)	70 967	74 801	89 287	82 902	227 543
Scrap	1 039	653	1 194	1 576	1 854
Czech Republic					
Unwrought (a)	1 253	1 670	5 659	7 865	10 669
Scrap	2 325	2 247	2 976	2 498	3 086
Denmark					
Scrap	9 263	5 543	2 336	3 538	3 628
Estonia					
Scrap	1 408	1 612	1 146	539	1 121
Finland					
Unwrought	186 916	212 125	235 735	235 320	233 041
Unwrought alloys	105	97	436	83	190
Scrap	7 324	5 195	2 281	2 116	1 650
France					
Ores & concentrates	17 775	37 167	38 779	39 463	47 516
Unwrought	143 307	109 839	115 352	80 472	31 960
Unwrought alloys	31 535	31 625	35 879	33 940	12 205
Scrap	33 611	38 294	56 440	63 571	71 224
Germany					
Ores & concentrates	43 050	4 741	695	7 257	2 336
Unwrought	95 493	104 982	91 123	81 664	65 824
Unwrought alloys	40 259	38 710	37 762	30 115	29 999
Scrap	40 684	47 414	52 545	55 913	54 939
Greece					
Ores & concentrates	65 084	0	0	3 276	12 615
Unwrought (a)	671	1 076	709	334	1 802
Scrap	172	683	709	517	421
Hungary					
Unwrought	997	921	3 798	415	1 189
Scrap	2 202	2 794	3 571	3 938	4 557
Irish Republic					
Ores & concentrates	161 452	439 247	564 018	522 312	483 949
Scrap	235	298	450	684	569
Italy					
Ores & concentrates	21 429	61 273	93 317	96 439	114 339
Unwrought	2 250	2 761	2 331	9 230	37 659
Unwrought alloys	6 520	6 914	3 523	2 854	7 792
Scrap	12 762	17 313	15 157	13 652	12 934
Latvia					
Scrap	312	348	504	629	750
Lithuania					
Scrap	1 056	878	691	685	976
Macedonia					
Ores & concentrates	19 983	...	...	3 306	23 106
Unwrought (a)	54 372	27 083	745	124	30
Netherlands					
Ores & concentrates	32	...	31 254	5 836	3 730
Unwrought	187 416	277 262	265 840	273 832	615 269
Unwrought alloys	4 234	7 571	19 867	9 364	38 116
Scrap	16 093	24 856	32 684	41 593	39 073
Norway					
Unwrought	133 006	125 896	127 410	134 690	138 491
Unwrought alloys	6 704	6 245	6 710	5 600	12 275
Poland					
Ores & concentrates	61 378	64 486	44 257	63 913	61 094
Unwrought	78 497	65 661	72 820	74 938	62 332
Unwrought alloys	1 844	1 330	850	857	2 513
Scrap	1 463	136	269	797	233

Zinc

Exports continued

tonnes

Country	2002	2003	2004	2005	2006
Portugal					
Scrap	1 001	1 198	1 855	2 050	2 023
Romania					
Ores & concentrates	59 456	99 978	31 665	26 611	16 796
Unwrought	34 261	49 234	42 968	42 013	32 008
Slovakia					
Unwrought	...	...	...	3 522	5 232
Unwrought alloys	69	311	5 977	3 618	14 053
Slovenia					
Scrap	767	950	788	803	846
Spain					
Ores & concentrates	29 661	33 913	37 986	67 420	31 416
Unwrought	79 286	245 702	294 548	333 966	270 233
Unwrought alloys	42 647	75 497	54 670	32 673	87 073
Scrap	4 577	3 561	5 125	11 981	7 946
Sweden					
Ores & concentrates	283 701	305 058	379 155	372 925	402 219
Unwrought (a)	629	496	280	165	1 143
Scrap	23 833	42 715	21 598	16 134	29 015
Switzerland					
Scrap	2 358	2 415	2 582	2 480	2 856
Turkey					
Ores & concentrates	100 445	97 605	110 692	138 288	144 662
Unwrought (a)	2 579	315	302	227	120
Scrap	...	4 293	2 318	53	176
United Kingdom					
Unwrought	15 686	3 106	1 581	1 661	5 325
Unwrought alloys	22 366	21 770	26 260	38 267	37 120
Scrap	15 248	15 436	9 710	9 881	4 571

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	2002	2003	2004	2005	2006
Austria					
Unwrought	51 331	58 968	47 866	58 838	61 856
Unwrought alloys	23 414	24 621	31 444	28 955	41 002
Scrap	1 774	1 643	2 035	609	737
Belgium-Luxembourg					
Ores & concentrates	864 008	1 189 103	1 410 560	1 182 083	1 109 923
Unwrought	236 971	244 081	261 216	46 505	73 894
Unwrought alloys	4 767	2 649	13 872	35 653	24 414
Scrap	60 893	42 424	42 534	44 890	44 221
Bulgaria					
Ores & concentrates	120 409	149 957	167 098	149 735	198 504
Unwrought (a)	3 049	4 146	4 285	1 450	9 994
Croatia					
Unwrought (a)	3 006	5 324	3 516	3 329	11 506
Czech Republic					
Unwrought	(a) 26 929	(a) 28 748	(a) 34 205	28 263	33 732
Unwrought alloys	...	...	...	8 039	11 113
Denmark					
Unwrought	11 031	10 761	10 813	9 855	11 494
Unwrought alloys	3 030	1 647	1 548	1 457	1 320
Estonia					
Unwrought (a)	...	10 578	17 468	9 105	7 253
Scrap	5 245	4 473	191	18	86

Zinc

Imports continued

tonnes

Country	2002	2003	2004	2005	2006
Finland					
Ores & concentrates	433 196	436 345	479 603	499 024	520 081
Unwrought alloys	...	566	908	1 218	1 372
Scrap	2 030	2 511	395	711	138
France					
Ores & concentrates	558 771	482 493	458 760	423 664	250 791
Unwrought	98 355	115 491	103 037	143 476	170 263
Unwrought alloys	32 740	34 874	56 492	45 566	47 309
Scrap	11 144	8 203	6 046	6 996	7 833
Germany					
Ores & concentrates	319 996	340 244	480 355	401 829	314 268
Unwrought	231 495	253 892	248 654	245 794	313 034
Unwrought alloys	77 600	100 172	83 556	76 981	83 795
Scrap	34 083	26 647	23 997	22 480	30 028
Greece					
Unwrought (a)	26 052	24 982	29 255	20 110	19 320
Hungary					
Unwrought (a)	23 295	16 900	15 779	14 529	19 093
Irish Republic					
Unwrought (a)	5 699	4 241	2 956	3 629	7 010
Italy					
Ores & concentrates	283 804	191 369	249 978	219 491	175 253
Unwrought	201 905	226 245	273 146	261 192	229 040
Unwrought alloys	31 361	28 659	35 835	34 929	42 768
Scrap	15 509	14 095	15 991	14 172	18 541
Latvia					
Unwrought (a)	753	895	1 172	654	901
Macedonia					
Unwrought (a)	932	568	5 025	3 750	15 658
Netherlands					
Ores & concentrates	375 646	430 349	408 032	484 472	532 861
Unwrought	126 816	160 793	143 218	144 592	200 473
Unwrought alloys	7 633	853	2 318	2 387	40 482
Scrap	10 368	14 213	20 288	15 257	14 619
Norway					
Ores & concentrates	220 879	221 754	231 563	255 158	248 486
Poland					
Ores & concentrates	112 193	113 990	114 800	78 746	129 551
Unwrought (a)	14 789	22 182	31 603	26 670	40 135
Scrap	251	656	4 636	3 899	2 681
Portugal					
Unwrought	13 649	18 113	13 450	11 862	19 015
Unwrought alloys	10 678	10 616	14 675	11 573	5 778
Romania					
Ores & concentrates	55 758	113 683	109 019	150 282	137 878
Unwrought (a)	15 482	16 030	19 555	14 640	23 732
Slovakia					
Unwrought (a)	31 953	33 557	42 324	43 500	45 143
Slovenia					
Unwrought (a)	18 031	19 925	21 146	21 740	29 435
Spain					
Ores & concentrates	901 359	1 096 292	917 968	1 090 022	1 188 067
Unwrought	4 939	7 448	3 862	8 203	7 577
Unwrought alloys	10 398	12 477	16 601	17 858	18 933
Scrap	2 506	4 103	4 062	3 927	4 996
Sweden					
Unwrought	25 562	22 320	29 682	29 847	25 763
Unwrought alloys	12 145	13 496	18 009	16 812	20 325
Switzerland					
Unwrought	21 073	11 730	14 577	13 045	12 189
Unwrought alloys	3 796	3 798	3 194	2 601	2 214
Turkey					
Unwrought	(a) 110 773	(a) 126 315	(a) 148 897	139 156	72 927
Unwrought alloys	...	...	...	6 121	5 481

Imports continued

tonnes

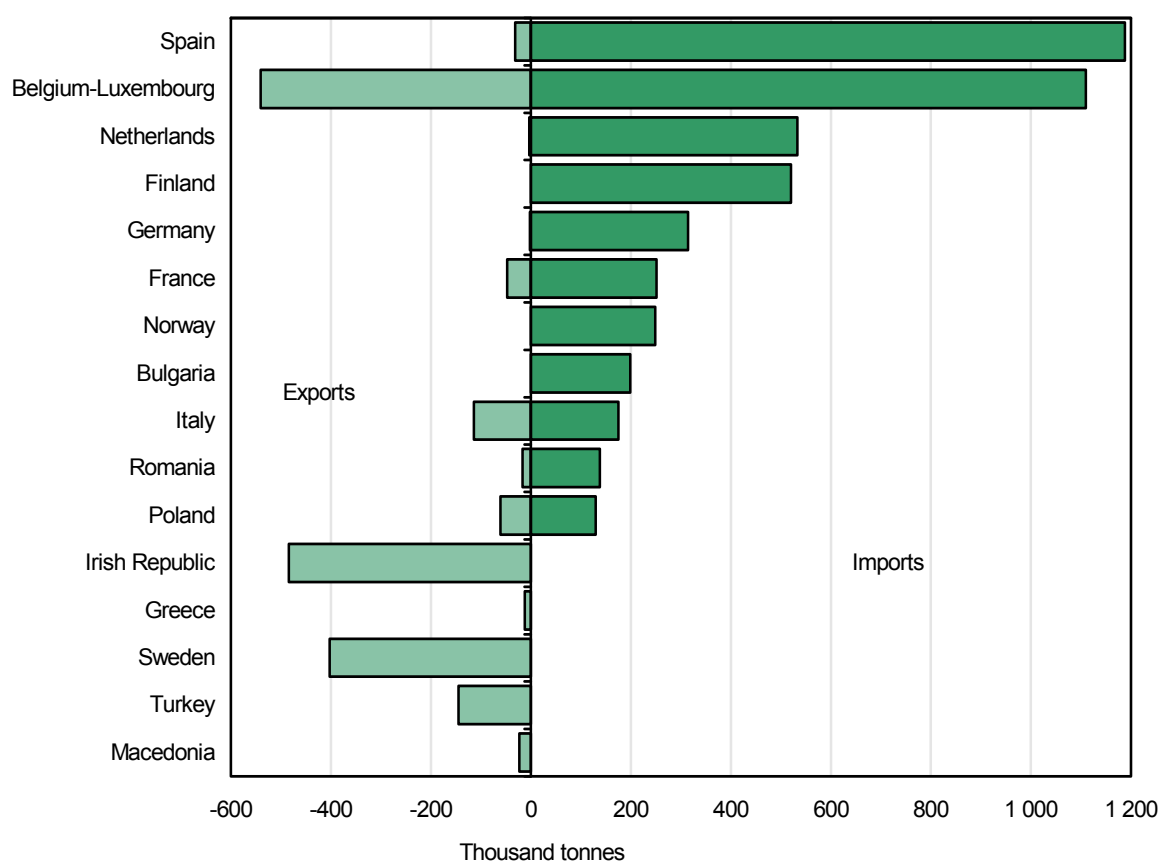
Country	2002	2003	2004	2005	2006
United Kingdom					
Ores & concentrates	229 042	16 611	260	903	603
Unwrought	108 357	171 219	139 477	135 840	119 676
Unwrought alloys	5 738	13 796	15 960	16 128	15 666
Scrap	261	172	228	188	334

Note(s) :-

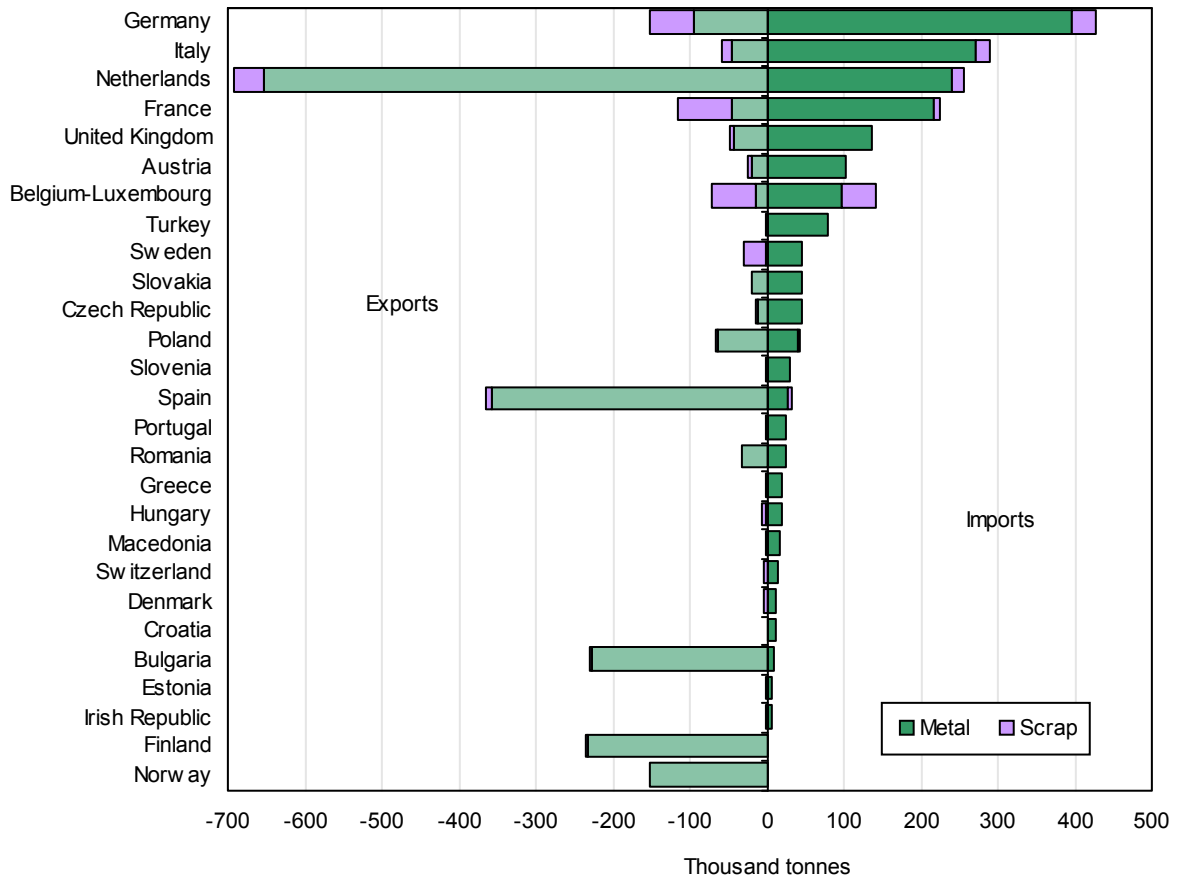
(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc.

(a) Including alloys

Zinc ore - EU32 trade in 2006



Zinc - EU32 trade in 2006



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 2006 were Australia (41%) and South Africa (34%).
- Zircon is traded in three forms — foundry, ceramic and refractory. The price increases seen in 2005 continued in 2006. The price for zircon sand imported into the US ranged from US\$700–775/tonne, driven by strong demand. Australian zircon prices ranged from US\$725–825/tonne.

Exports of zirconium

tonnes

Country	2002	2003	2004	2005	2006
Belgium-Luxembourg					
Concentrates	18 253	10 047	11 105	22 965	27 054
Metal	233	163	170	222	144
France					
Concentrates	1 126	653	1 129	1 058	2 316
Germany					
Concentrates	2 539	2 111	2 450	5 211	1 572
Metal	343	300	275	286	434
Italy					
Concentrates	20 510	22 050	25 633	21 760	23 472
Metal	775	424	441	455	260
Netherlands					
Concentrates	5 361	7 011	8 548	8 178	7 391
Slovenia					
Concentrates	...	...	...	1 009	1 186
Spain					
Concentrates	7 852	13 669	10 844	9 805	9 811
Metal	122	602	989	820	110
United Kingdom					
Concentrates	5 033	418	505	699	902
Metal	263	244	183	127	90

Note(s):-

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

Imports of zirconium

tonnes

Country	2002	2003	2004	2005	2006
Austria					
Concentrates	1 526	1 206	1 486	1 200	1 285
Belgium-Luxembourg					
Concentrates	13 267	5 178	3 991	14 504	18 763
Metal	483	533	534	605	556
Bulgaria					
Concentrates	1 413	1 375	1 149	1 589	1 421
Czech Republic					
Concentrates	2 911	2 105	1 605	655	1 498
Metal	580	348	32	60	86
France					
Concentrates	43 841	58 457	48 004	53 701	48 973
Metal	251	288	276	207	378
Germany					
Concentrates (a)	76 921	85 178	80 328	79 729	—
Metal	456	632	516	503	571

Zirconium

Imports continued

tonnes

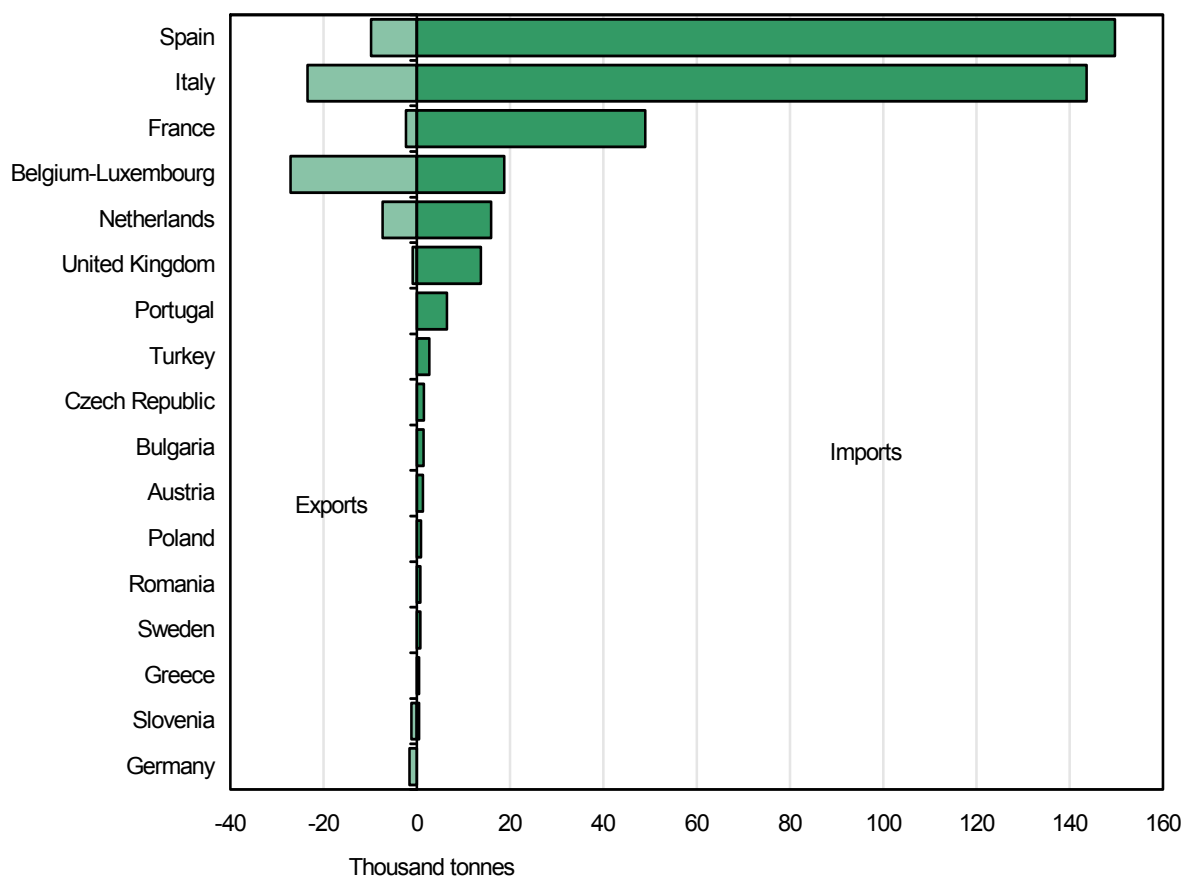
Country	2002	2003	2004	2005	2006
Greece					
Concentrates	657	651	611	629	466
Hungary					
Concentrates	3 714	...	...	3 266	...
Italy					
Concentrates	136 504	130 207	149 787	147 435	143 672
Metal	85	823	122	120	128
Netherlands					
Concentrates	21 401	11 607	13 613	10 975	15 948
Metal	42	52	105	88	123
Poland					
Concentrates	1 207	1 056	1 085	870	863
Metal	13	2	23	6	43
Portugal					
Concentrates	2 924	2 802	2 045	5 918	6 426
Romania					
Concentrates	678	827	809	552	766
Metal	12	22	30	22	32
Slovenia					
Concentrates	440	529	416	625	443
Spain					
Concentrates	145 970	142 949	143 860	153 619	149 710
Metal	41	60	94	56	55
Sweden					
Concentrates	424	480	564	588	750
Metal	138	172	82	91	134
Switzerland					
Metal	115	85	86	117	29
Turkey					
Concentrates	3 914	3 954	3 881	4 539	2 645
Metal	23	5	9	14	3
United Kingdom					
Concentrates	30 656	39 285	32 917	19 519	13 729
Metal	394	346	444	338	467

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 - EU32 trade in 2006



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. Of these, Turkey (45% of world production) was the largest world and EU32 producer in 2006.
- Borates are traded in a variety of forms. The price of Turkish lump colemanite (FOB 40–42% B₂O₃) was between US\$270–US\$290/tonne. Processed chemical (borax) ranged from £300–£900/tonne with the higher prices referring to anhydrous borax.

Production of borates

Country	2002	2003	2004	2005	2006
Turkey	1 328 000	1 324 000	1 727 000	2 087 000	2 373 345

tonnes

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 2006 was China. Until recently Norway and France produced recycled magnesium, however, the EU32 is now entirely import dependent for magnesium metal.
- In the latter part of 2006, Norsk Hydro announced that it would close its primary magnesium plant in Canada in 2007 from magnesium production and this led to lead to price increases, rising from US\$1.05-US\$1.15/lb in mid-year to over US\$1.40/lb. The supply interruption at the VSMPO-Avisma Corporation primary magnesium plant in Berezniki, Russia also contributed to the rise in price.

Production of primary magnesium metal

Country	2002	2003	2004	2005	2006
France	2 000	—	—	—	—
Norway	3 100	—	—	—	—

tonnes

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 2006, followed by Canada and Norway.
- Norwegian nepheline syenite (bulk FOL, UK port, glass grade, 0.5mm) traded at £97/tonne throughout 2006.

Production of nepheline syenite

Country	2002	2003	2004	2005	2006
Norway	330 461	332 000	329 000	320 000	330 000

tonnes

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 dewateres — 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. China is believed to be the largest perlite producer in the world, representing approximately 36% of world production in 2006, closely followed by Greece.
- Perlite can have a wide range of properties and shipments are individually assessed according to need. Thus, the price range is large. During 2006 perlite (aggregate, expanded, ex-works UK) traded between £320–£650/tonne.

Production of perlite

tonnes

Country	2002	2003	2004	2005	2006
Bulgaria	10 500	16 800	8 500	15 300	4 500
Greece	838 997	1 079 036	1 053 388	*1 100 000	*1 100 000
Hungary	72 196	95 100	65 000	69 900	71 019
Italy	*60 000	*60 000	*60 000	*60 000	*60 000
Slovakia	18 635	15 000	23 840	8 630	10 560
Turkey	151 902	136 683	133 829	156 935	*160 000

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 decolorizer, 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 2006 was Japan. Within the EU32, Belgium, Germany and Sweden are thought to be the largest producers.
- The average US price for selenium metal min. 99.5% was US\$24.57/lb in 2006. At the beginning of 2006 selenium was trading around US\$46/lb. Prices decreased throughout the year, to a minimum of US\$16/lb in May but rising back to US\$25/ by the year-end. The price fluctuation was attributed to changing demand in China and India.

Production of selenium metal

tonnes

Country	2002	2003	2004	2005	2006
Belgium	*200	*200	*200	*200	*200
Finland	37	52	65	66	70
Germany	*16	*14	*14	*12	12
Poland	68	78	83	82	87
Sweden	118	107	131	122	*120

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 a small number of countries produce strontium minerals. China is believed to be the world's largest producer with approximately two thirds of world production. In the EU32, Spain and Turkey are the only known producers. In 2006 celestite traded at between US\$54–US\$100/tonne depending on source and grade.

Production of strontium minerals

Country	2002	2003	2004	2005	2006
Spain	171 293	152 383	206 001	336 630	272 000
Turkey	*70 000	*70 000	*60 000	*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 2006, accounting for 25% of the world total. Australia is also a significant producer, contributing 19% to world production. In the EU32, a small amount of uranium was mined in the Czech Republic. In addition there was minor production from Romania and Germany.
- Uranium spot market prices continued to rise during 2006, starting the year at around US\$37.50/lb U₃O₈ and ending at US\$72.00/lb

Mine production of uranium

Country	2002	2003	2004	2005	2006
Czech Republic	477	458	435	420	383
France	12	—	—	—	—
Germany	221	104	77	80	65
Portugal	2	—	—	—	—
Romania	90	90	90	*90	*90
Spain	—	—	—	—	—
EU32 Total	802	652	602	590	538
EU32 Total (U ₃ O ₈ equivalent)	946	770	710	696	635

Note(s):-

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

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 (50% of world production). Finland was the only EU32 producer, contributing 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 2006 at between US\$205–US\$345/short ton for US ex-works, depending on grade.

Production of wollastonite

Country	2002	2003	2004	2005	2006
Finland	17 400	17 300	16 763	15 950	16 200
Spain	...	...	...	30 000	30 000

Note(s):-

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