

European Mineral Statistics



2005–09



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL



Communities
and Local Government

BRITISH GEOLOGICAL SURVEY

European Mineral Statistics 2005–09

A product of the World Mineral Statistics database

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Cover photograph: Fjardaal Aluminium Smelter at Reydarfjordur in Iceland opened by Alcoa Inc in 2007. Designed to comply with Iceland's stringent environmental standards, Fjardaal uses advanced technologies and is powered by hydro-electricity. Iceland submitted an application to join the European Union in July 2009 and appears in this volume for the first time as a new candidate country. Photo: T J Brown. BGS © NERC

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Commentary

1. Introduction

Europe's relatively restricted land mass has a remarkable variety of geological terranes. It includes ancient crystalline 'shields' and massifs, complex younger fold-belts penetrated by igneous intrusions, deep sedimentary basins containing coal, petroleum 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 statistism, that is, the direction and control of their internal affairs to a much greater degree than before. From statistism came the concept of statistics – the numbers collected and compiled as the basis for such a cation 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 sand and gravel, crushed rock aggregate 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.

As 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 issue 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, Iceland, Macedonia and Turkey; this group of 33 countries is for convenience referred to as 'EU33'.

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 minerals 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>
Clay and shale	<i>bricks, pipes, tiles and cement manufacture</i>
Gypsum ²	<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 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 a total of approximately 2488 million tonnes of primary aggregate production in the EU33 countries in 2009. This represents a fall of 14 per cent from 2898 million tonnes in 2008. The European Aggregates Association (UEPG) (www.uepg.eu) has estimated that the production of primary aggregates in only 23 European countries is higher than the figures shown here at 3253 million tonnes for 2008 (no figures for 2009 were available at the time of writing).

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 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 15 million tonnes per year or 23 per cent of total UK sand and gravel production in 2009. Of this marine-dredged material 37 per cent 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 26 per cent of total supply. This is the highest in the EU33 countries in percentage terms although Germany produces a greater total tonnage.

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 extracted ore the ultimate refined marketable product 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 seawater and dolomite. Salt is a further example, being extracted as a solid (rock salt), as brine and by the 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 EU33 production of selected industrial minerals as world percentages

<i>Industrial mineral</i>	<i>% of world</i>	<i>EU33 countries with >2% of world output in 2009</i>
Feldspar	58.4	Italy (25%), Turkey, France, Spain, Poland, Czech Rep.
Kaolin	31.1	Germany (18%), UK, Czech Republic
Bentonite	21.1	Greece (7%), Turkey, Germany
Gypsum	20.1	Spain (7%), France, Turkey
Salt	20.0	Germany (6%), France, Netherlands, UK
Magnesite	16.7	Turkey (8%), Austria, Slovakia
Talc	16.7	Finland (7%), France
Diatomite	14.7	Denmark (8%), France, Spain
Potash	12.9	Germany (9%), Spain
Mica	10.2	France (7%), Finland
Barytes	4.0	Turkey (2%)
Fluorspar	3.3	Spain (2%)

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.

4. Metals

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. Turkey for chromium (9.5 per cent of the world total in 2009), Norway for titanium (6.5 per cent) and Poland for silver (5.2 per cent), but the majority of European countries depend chiefly on imports from other continents. Between 2008 and 2009, the overall mine production for most metals produced in the EU33 decreased by between two per cent (silver) and 26 per cent (bauxite). However, there were increases in the mine production of copper (up three per cent) and gold (up nearly 10 per cent). The overall EU33 position of mine production of selected metals in 2009 is shown in Table 3.

Table 3 EU33 mine production of selected metals as world percentages.

<i>Metal</i>	<i>% world</i>	<i>EU33 countries with >1% of world output in 2009</i>
Chromium	10.8	Turkey (9.5%), Finland
Silver	8.1	Poland (5.2%), Sweden, Turkey
Zinc	7.6	Ireland (3.4%), Sweden, Poland
Lead	6.7	Sweden (1.8%), Poland, Ireland, Macedonia
Titanium	6.5	Norway (6.5%)
Copper	5.2	Poland (2.8%)
Tungsten	3.1	Austria (1.4%), Portugal
Nickel	3.0	–
Aluminium (bauxite)	1.4	Greece (1.0%)
Iron	1.4	–
Gold	1.2	–

European smelting and refining of imported ores and concentrates provides the bulk of supply in the cases of iron, aluminium (bauxite), zinc, lead, and copper. Refining in Europe of semi-processed materials from other continents accounts for a large part of nickel and tin supply but vanadium and cobalt metal are 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 emphasised that the situation of individual countries may vary widely from one to another, as the statistics indicate.

In 2009, China consumed 36 per cent of the world's total production of primary aluminium, 39 per cent of refined copper, 43 per cent of refined lead, 41 per cent of refined nickel, 44 per cent of refined tin, and 43 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 35 per cent of crude steel production, but, although its per capita consumption increased to 340.5 kilograms, it is still lower than the EU(27) at 402.8 kilograms per capita (World Steel Association).

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 the second largest exporter of petroleum from the EU33 countries, there is also 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 9.5 per cent of the world total for natural gas in 2009 and 5.7 per cent of petroleum. These percentages both show reductions on the 2005 figures which were 11.1 per cent and 6.8 per cent, respectively.

In 2009, Norway produced 3.1 per cent of total world output of oil and the United Kingdom produced 1.7 per cent. Production of oil in Norway has decreased by 17.7 per cent between 2005 and 2009, and in the UK by 18.6 per cent. Norway also produced 3.3 per cent of the total world output of natural gas in 2009; the Netherlands produced 2.4 per cent and the UK 2.0 per cent. While the UK's production of natural gas declined between 2005 and 2009 by 32.7 per cent, output from Norway increased by 22 per cent and production from the Netherlands remained relatively constant.

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 EU33 countries was 1351 million tonnes. In 2009 production from the same territories was 632 million tonnes, of which half was provided by Germany (2.7 per cent of the world total) and Poland (1.9 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 the latter 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 2009, mine production of uranium in the EU33 countries amounted to 497 tonnes U₃O₈ equivalent, or 0.8 per cent of the world total, chiefly attributable to the Czech Republic. The EU33 countries occupy the top four positions for the proportion of electricity generated from nuclear power in 2009 (International Atomic Energy Agency). These countries are Lithuania, France, Slovakia, and Belgium with the proportions ranging from 76.23 per cent to 51.65 per cent.

The overall EU33 position with regard to production of energy minerals in 2009 is shown in Table 4.

Table 4 EU33 production of energy minerals as world percentages.

<i>Mineral</i>	<i>% world</i>	<i>EU33 countries with > 1% of world output 2009</i>
Coal	9.1	Germany (2.7%), Poland, Turkey
Natural gas	9.5	Norway (3.3%), Netherlands, UK
Petroleum	5.7	Norway (3.1%), UK
Uranium	0.8	-

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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.

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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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 Minière, *Annuaire Statistique Mondial des Minerais et Métaux*; Mining Journal, *Country and Commodity Reports*; 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; Kroll & Plastics Europe; International Iron and Steel Institute (now known as the World Steel Association); Eurofer; World Nuclear Association; Barytes Association; Eurostat; European Aggregates Association; Energy Information Agency; Inmet Mining; Aluminium de Grece; New Boliden; Eurozinc Mining Corporation; Rio Narcea; Lundin Mining; Vereinigung der Österreichischen Zementindustrie, Austria; Federation de l'Industrie Cimentiere Belge, Belgium; Statistics Belgium; Czech Republic Statistical Office; Statistics Denmark; Danish Energy Agency, 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; Unicem, France; Infociments, France; Statistisches Bundesamt Deutschland, Germany; National Statistical Service of Greece; Federacciai, Italy; Unione Petrolifera, Italy; Istituto Nazionale di Statistica, Italy; Statel, Luxembourg; Centraal Bureau voor de Statistiek, Netherlands; Staatstoezicht op de Mijnen, Netherlands; Statistisk Sentralbyra, Norway; Geological Survey of Norway; Instituto Nacional de Estatistica, Portugal; Statistical Office of the Republic of Slovenia; Unesid, Spain; Sveriges Geologiska Undersokning, Sweden; Jernkontoret, Sweden; Statistiska Centralbyran, Sweden; CemSuisse, Switzerland; Department for Business, Innovation and Skills, United Kingdom; Office for National Statistics, 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

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c.i.f. Cost, Insurance and Freight. The seller's price includes the cost of the goods, the insurance of the goods to their destination port, and the cost of freight.

f.o.b. Free on Board. The seller is responsible for the cost of delivering goods to the ship. The buyer is responsible for transportation and insurance costs from that point.

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 EU33 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) These statistics 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
- (5) From 2007 Harmonised System 2508.20, used for fuller's earth, is no longer available

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

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 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
- (2) Kilograms 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.
- (3) See explanatory notes regarding currency conversion
- Graphite - production
- (1) Including all forms of amorphous and crystalline graphite but excluding synthetic material
- Graphite - exports and imports
- (1) Excluding synthetic graphite
- Gypsum - production
- (1) Some countries produce large quantities of synthetic gypsum. Where possible, this output is excluded
- Gypsum - exports & imports
- (1) The term 'crude' may include some anhydrite
- Pig iron - production
- (1) Sponge iron and direct reduced iron (DRI) are included where these have been separately identified
- Crude steel - production
- (1) Figures include production from scrap unless otherwise indicated
- Iron, steel and ferro-alloys - exports and imports
- (1) The term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel
- Refined Lead - production
- (1) Figures relate to both primary and secondary refined lead and include the lead content of antimonial lead. Metal recovered from materials by remelting alone is excluded
- Lead - exports and imports
- (1) The term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars, etc
- (2) The term 'unwrought', as used here, includes alloys unless these are separately identified.
- Magnesite and magnesia - exports and imports
- (1) The term 'magnesia', as used here, includes dead-burned, sintered and caustic-burned (caustic calcined) material
- Manganese - exports and imports
- (1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys
- Mercury - production
- (1) Several countries are believed to have unrecorded production of mercury from copper electrowinning processes
- 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
- Natural Gas - exports and imports
- (1) This table includes both liquified natural gas (HS code: 271111) in tonnes and natural gas in gaseous state (HS code 271121) in tonnes of oil equivalent
- (2) To convert figures from million tonnes (of oil equivalent) to billion m³, multiply by 1.11
- Platinum group metals - exports and imports
- (1) The term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys
- (2) Kilograms 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.
- (3) See explanatory notes regarding currency conversion
- 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	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel (a)	tonnes	29 065 350	27 281 864	29 230 545	32 440 624	30 457 247
Crushed rock (a)	tonnes	25 093 602	26 536 938	25 248 136	33 867 686	33 046 433
Cement						
Cement clinker	tonnes	90 053	188 588	221 684	287 911	167 641
Cement, finished	tonnes	4 676 768	5 293 370	5 518 303	6 131 257	5 230 755
Coal						
Brown coal and lignite (b)	tonnes	13 931	7 854	—	—	—
Copper, refined	tonnes	72 300	72 600	81 400	106 700	96 200
Graphite	tonnes	—	—	—	(c) 250	(c) 750
Gypsum						
Gypsum	tonnes	911 162	936 072	1 006 416	1 022 983	(d) 910 945
Anhydrite	tonnes	106 032	135 380	57 428	64 276	...
Iron ore (e)	tonnes	2 047 950	2 092 996	2 152 825	2 032 671	2 002 131
Pig iron	tonnes	5 444 000	5 547 000	5 908 000	5 795 000	4 353 000
Crude steel	tonnes	7 031 000	7 129 000	7 577 000	7 593 000	5 662 000
Ferro-alloys						
Ferro- molybdenum	tonnes	5 000	5 000	5 000	4 500	4 000
Ferro-nickel	tonnes	2 500	2 500	3 000	2 000	2 500
Ferro-vanadium	tonnes	6 250	6 250	6 500	6 300	6 200
Kaolin	tonnes	16 410	17 431	16 929	16 460	18 148
Lead, refined	tonnes	* 24 000	* 22 000	* 22 000	* 22 000	* 22 000
Magnesite	tonnes	693 754	769 188	811 556	837 476	544 716
Nickel, smelter/refinery	tonnes	1 000	900	900	500	700
Crude petroleum	tonnes	933 040	856 270	853 549	861 639	905 031
Natural gas	million m ³	1 654	1 765	1 835	1 544	1 559
Salt						
Rock salt	tonnes	1 497	1 336	1 172	503	—
Salt in brine	tonnes	771 455	764 103	735 724	866 674	1 035 044
Sulphur and pyrites						
Recovered (f)	tonnes (sulphur content)	54 377	50 097	50 501	48 024	48 624
Talc	tonnes	166 569	159 447	153 409	154 577	111 388
Tungsten, mine	tonnes (metal content)	1 280	1 153	1 117	1 122	887

Note(s)

(1) Austria is believed to produce arsenic and bentonite

(a) Sales

(b) Coal; all forms

(c) Crude

(d) Including anhydrite

(e) Including micaceous iron oxide

(f) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	2 745 393	3 086 027	3 394 988	3 130 358	2 634 211
Aluminium and bauxite						
Bauxite	tonnes	980	765	1 225	1 202	546
Unwrought	tonnes	6 616	7 630	8 294	4 120	2 332
Unwrought alloys	tonnes	125 796	119 058	111 571	109 757	98 966
Scrap	tonnes	67 434	80 200	91 960	90 825	118 028
Antimony						
Metal	tonnes	1 089	3	1	0	—
Barytes	tonnes	1 407	5 830	3 023	2 440	1 276
Bentonite and fuller's earth						
Bentonite	tonnes	10 173	8 112	5 589	5 225	4 350
Bismuth						
Metal	tonnes	8	0	12	1	1

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Cement						
Cement clinkers	tonnes	32 877	136 381	189 450	243 906	146 991
Portland cement	tonnes	151 330	201 687	314 112	344 338	272 440
Other cement	tonnes	53 951	38 926	59 361	82 570	56 934
Chromium						
Ores and concentrates	tonnes	276	136	491	833	333
Metal	tonnes	8 893	11 770	14 739	6 596	5 845
Cobalt						
Metal	tonnes	5	10	19	31	60
Copper						
Matte and cement	tonnes	2 901	651	2 323	719	3 109
Unwrought	tonnes	83 750	84 104	82 985	114 978	115 697
Unwrought alloys	tonnes	604	2 509	1 239	938	1 058
Scrap	tonnes	33 274	39 169	38 642	35 582	50 748
Diamond						
Unsorted	carats	£188 000	£211 000	£85 000	£71 000	£189 000
Gem, cut	carats	£2 895 000	£3 157 000	£2 792 000	£5 778 000	£4 053 000
Dust	carats	£406 000	£45 000	£115 000	£165 000	£260 000
Diatomite	tonnes	5 375	4 171	4 455	3 043	3 286
Feldspar	tonnes	18 998	17 977	15 058	15 194	14 025
Gold						
Metal	kilograms	8 500	11 100	14 900	18 700	18 800
Waste and scrap	kilograms	5 500	600	17 300	2 200	2 700
Graphite	tonnes	7 082	7 416	7 460	8 853	6 260
Gypsum						
Crude	tonnes	21 433	30 002	89 128	26 402	20 694
Calcined	tonnes	94 207	99 013	121 473	89 906	78 839
Iodine	kilograms	37	600	300	100	300
Iron, steel and ferro-alloys						
Pig iron	tonnes	6 614	5 695	6 958	7 539	2 354
Ferro-alloys	tonnes	9 476	10 218	9 100	7 541	5 953
Silicon metal	tonnes	628	1 884	5 166	5 412	4 795
Ingots, blooms, billets	tonnes	484 431	303 284	286 765	284 063	187 410
Scrap	tonnes	1 024 301	1 140 091	1 279 775	1 351 725	1 067 926
Kaolin	tonnes	3 019	3 649	2 292	2 445	8 954
Lead						
Unwrought	tonnes	10 746	13 129	13 629	13 844	12 512
Scrap	tonnes	1 514	1 027	1 018	600	2 173
Magnesite and magnesia						
Magnesite	tonnes	1 338	1 231	760	602	1 746
Magnesia	tonnes	59 283	45 311	57 964	28 779	26 716
Manganese						
Metal	tonnes	5 470	306	116	130	225
Mercury	kilograms	4 100	214	5 000	200	2 000
Mica	tonnes	4 915	4 102	4 234	4 274	3 328
Molybdenum						
Metal (a)	tonnes	* 4 700	* 3 000	* 3 500	* 3 000	* 1 800
Natural gas	tonnes	1 082 286	1 645 995	2 688 210	2 812 303	2 164 960
Nickel						
Unwrought (b)	tonnes	226	197	333	225	265
Scrap	tonnes	1 927	2 337	2 208	1 910	1 775
Phosphate rock	tonnes	1	942	—	...	621
Platinum metals						
Platinum and platinum metals	kilograms	£12 253 000	£14 817 000	£30 801 000	£52 298 000	£38 485 000
Waste and scrap	kilograms	£397 000	£281 000	£621 000	£621 000	£295 000
Potash						
Potassic fertilisers	tonnes	4 713	8 584	13 595	14 613	13 843
Rare earths						
Cerium compounds	tonnes	1 980	1 569	2 596	2 702	2 035
Other rare earth compounds	tonnes	6 449	5 911	9 039	8 508	8 437
Metals	tonnes	421	333	359	373	244
Salt	tonnes	199 133	202 465	235 775	388 681	491 981
Silver						
Metal	kilograms	62 600	120 400	115 100	95 000	98 600

Austria

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Sulphur and pyrites						
Pyrites	tonnes	2 641	2 881	2 645	2 672	1 740
Sulphur	tonnes	141	225	3 006	3 292	472
Sulphur, sublimed and precipitated	tonnes	9 245	4 881	492	3 906	7 423
Talc	tonnes	158 799	165 923	153 457	135 390	106 423
Tantalum and niobium						
Tantalum	tonnes	—	—	13	20	35
Tin						
Unwrought (b)	tonnes	116	110	167	177	71
Scrap	tonnes	62	125	103	141	53
Titanium						
Metal	tonnes	317	513	576	717	203
Oxides	tonnes	3 457	3 976	4 885	6 444	5 344
Tungsten						
Metal (a)	tonnes	* 2 100	* 2 000	* 1 600	* 1 600	* 4 300
Zinc						
Unwrought (b)	tonnes	13 469	19 981	14 682	13 794	5 703
Scrap	tonnes	3 559	4 329	2 132	8 176	6 052

Note(s)

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

(b) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	2 516 839	2 622 855	3 961 223	3 447 013	2 924 359
Aluminium and bauxite						
Bauxite	tonnes	36 123	25 291	16 717	21 727	2 370
Alumina	tonnes	41 269	45 777	49 728	55 639	27 193
Alumina hydrate	tonnes	10 125	12 821	16 056	20 205	13 219
Unwrought	tonnes	82 597	113 047	140 286	154 792	103 145
Unwrought alloys	tonnes	214 611	235 053	250 209	218 902	175 583
Scrap	tonnes	150 412	157 256	161 995	170 315	168 055
Antimony						
Metal	tonnes	74	51	104	63	64
Oxide	tonnes	263	271	277	245	192
Barytes	tonnes	5 863	12 550	4 898	6 234	2 733
Bentonite and fuller's earth						
Bentonite	tonnes	58 344	60 667	58 727	68 703	66 575
Fuller's earth	tonnes	374	427	...	...	...
Bismuth						
Metal	tonnes	62	114	42	148	80
Bromine	kilograms	222 000	228 600	463 900	488 000	65 300
Cement						
Cement clinkers	tonnes	532 745	487 406	520 714	456 127	404 998
Portland cement	tonnes	860 087	686 652	626 723	753 529	639 545
Other cement	tonnes	43 083	31 100	39 568	40 766	52 715
Chromium						
Ores and concentrates	tonnes	21 398	37 326	39 071	42 008	25 891
Metal	tonnes	4 440	8 879	14 480	8 006	4 325
Coal						
Hard coal (a)	tonnes	4 108 821	3 912 731	4 509 917	4 118 906	4 082 877
Lignite	tonnes	2 139	2 294	53 331	46 392	72 734
Briquettes	tonnes	96 318	101 162	13 045	26 474	30 538
Cobalt						
Metal	tonnes	694	438	631	740	331
Oxides	tonnes	5	7	4	40	5
Copper						
Unwrought, unrefined	tonnes	20 081	26 508	26 678	39 590	24 445
Unwrought, refined	tonnes	21 176	29 298	20 614	8 855	4 868
Unwrought alloys	tonnes	2 260	2 979	2 485	1 866	1 617
Scrap	tonnes	82 787	88 684	91 043	113 109	134 063

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Diamond						
Unsorted	carats	£1 218 000	£978 000	£957 000	£1 648 000	£543 000
Gem, cut	carats	£5 743 000	£5 892 000	£6 405 000	£8 881 000	£9 795 000
Industrial	carats	£706 000	£841 000	£884 000	£473 000	£313 000
Dust	carats	23 000 000	28 000 000	26 000 000	33 000 000	17 000 000
Diatomite	tonnes	12 892	11 693	13 710	12 561	16 327
Feldspar	tonnes	1 549	2 220	3 816	1 928	1 933
Fluorspar	tonnes	2 561	2 722	2 517	3 405	1 956
Gold						
Metal	kilograms	22 100	9 300	30 900	72 300	86 500
Waste and scrap	kilograms	1 800	300	100	400	1 700
Graphite	tonnes	13 655	10 704	17 757	30 863	4 622
Gypsum						
Crude	tonnes	15 280	11 057	14 651	10 118	12 098
Calcined	tonnes	66 118	61 713	97 281	67 712	73 588
Iodine	kilograms	92 700	173 600	145 500	139 700	204 100
Iron ore (b)	tonnes	7 423 189	8 412 038	9 061 870	7 996 632	6 095 762
Iron, steel and ferro-alloys						
Pig iron	tonnes	51 982	40 133	69 614	43 663	30 084
Sponge and powder	tonnes	25 214	20 542	31 775	56 471	13 980
Ferro-chrome	tonnes	41 046	34 196	49 977	47 748	20 400
Ferro-silico-magnesium	tonnes	678	522	1 746	2 021	1 843
Ferro-manganese	tonnes	37 865	29 385	38 857	36 491	18 962
Ferro-silico-manganese	tonnes	26 572	22 456	30 340	22 322	17 927
Ferro-molybdenum	tonnes	617	1 632	1 370	1 552	801
Ferro-niobium	tonnes	899	955	956	1 125	665
Ferro-phosphorus	tonnes	1 749	1 520	1 692	2 011	1 095
Ferro-silicon	tonnes	32 445	25 609	26 180	27 850	12 825
Ferro-titanium and ferro-silico-titanium	tonnes	1 121	1 081	793	879	388
Ferro-tungsten and ferro-silico-tungsten	tonnes	535	677	796	1 277	208
Ferro-vanadium	tonnes	256	100	186	289	32
Other ferro-alloys	tonnes	1 554	1 611	7	61	1
Silicon metal	tonnes	11 698	12 937	16 581	15 601	7 288
Ingots, blooms, billets	tonnes	108 004	132 901	208 910	191 426	46 762
Scrap	tonnes	1 113 082	1 089 942	1 371 393	1 629 170	1 196 327
Kaolin	tonnes	234 906	222 007	218 813	226 682	192 860
Lead						
Unwrought	tonnes	23 062	29 184	27 015	27 475	21 580
Scrap	tonnes	1 068	890	661	263	826
Lithium						
Carbonate	tonnes	182	199	248	333	327
Magnesite and magnesia						
Magnesite	tonnes	17 019	1 653	933	2 319	937
Magnesia	tonnes	188 449	213 760	317 952	248 037	21 708
Manganese						
Ores and concentrates	tonnes	110	368	383	215	184
Metal	tonnes	8 707	12 059	17 543	14 275	11 512
Mercury	kilograms	1 600	2 000	4 400	200	—
Mica	tonnes	512	615	722	857	492
Molybdenum						
Metal	tonnes	599	1 342	1 243	1 502	430
Nickel						
Mattes, sinters etc	tonnes	460	684	443	476	216
Unwrought (c)	tonnes	6 903	7 599	7 874	10 511	4 142
Scrap	tonnes	447	670	605	1 164	367
Oxides	tonnes	312	195	78	82	11
Crude petroleum	tonnes	7 836 688	7 698 169	7 645 010	7 945 639	7 428 183
Natural gas	tonnes	6 922 117	7 593 331	6 988 269	7 136 000	7 566 509
Phosphate rock	tonnes	67 853	94 630	106 018	(d)* 158 000	(d)* 58 000
Platinum metals						
Platinum and platinum metals	kilograms	7 200	8 400	1 100	700	1 600
Potash						
Fertiliser salts	tonnes	23 685	23 423	...	...	...
Sulphate	tonnes	13 377	17 797	13 026	10 432	4 241
Chloride	tonnes	144 234	133 514	123 747	119 347	28 000
Other potassic fertilisers	tonnes	2 336	3 199	26 199	25 862	9 139

Austria

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Rare earths						
Cerium compounds	tonnes	3 055	2 009	3 431	3 487	1 985
Other rare earth compounds	tonnes	2 685	2 618	3 762	3 589	2 471
Metals	tonnes	374	403	512	561	269
Salt	tonnes	210 736	429 515	143 538	105 335	230 979
Sillimanite minerals	tonnes	2 194	2 100	3 160	2 639	1 353
Silver						
Metal	kilograms	127 900	168 300	151 600	441 900	431 500
Sulphur and pyrites						
Pyrites	tonnes	3 251	3 537	3 809	3 754	1 614
Sulphur	tonnes	60 054	70 350	84 659	89 038	68 881
Sulphur, sublimed and precipitated	tonnes	9 589	10 850	5 556	17 842	14 961
Talc	tonnes	50 768	49 900	58 500	68 797	37 648
Tantalum and niobium						
Tantalum	tonnes	0	0	70	—	—
Tin						
Unwrought (c)	tonnes	1 926	2 177	2 486	2 679	1 915
Titanium						
Titanium minerals	tonnes	349	575	451	520	362
Metal	tonnes	1 691	1 873	3 851	2 455	1 346
Oxides	tonnes	25 640	27 485	26 856	30 861	28 258
Tungsten						
Metal	tonnes	825	670	548	435	369
Vanadium						
Vanadiferous residues	tonnes	* 29 000	* 29 000	* 37 000	* 36 000	* 35 000
Ores and concentrates	tonnes	1 565	792	543	460	...
Pentoxide (d)	tonnes	* 260	* 50	...	* —	* 30
Zinc						
Unwrought	tonnes	58 838	61 856	65 391	61 877	37 864
Unwrought alloys	tonnes	28 955	41 002	33 939	33 911	27 886
Zirconium						
Concentrates	tonnes	1 200	1 285	2 054	2 163	1 298

Note(s)

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

Belgium

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel (a) (b)	tonnes	8 330 239	8 636 966	* 8 600 000	* 8 600 000	* 8 000 000
Crushed rock (a) (c)	tonnes	38 826 735	39 937 651	* 43 000 000	* 42 000 000	* 40 000 000
White arsenic	tonnes	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Cement						
Cement, finished	tonnes	6 587 000	6 965 000	6 930 000	7 135 000	6 113 000
Cobalt metal (d)	tonnes	3 298	2 840	2 825	3 020	2 150
Copper, refined	tonnes	382 900	378 600	394 000	395 800	373 700
Pig iron	tonnes	7 254 000	7 516 000	6 577 000	6 977 000	7 407 000
Crude steel	tonnes	10 422 000	11 631 000	10 692 000	10 673 000	5 635 000
Kaolin	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Lead, refined	tonnes	103 000	101 000	117 000	104 000	109 000
Selenium metal	tonnes	* 200	* 200	* 200	* 200	* 200
Sulphur and pyrites						
Recovered (e) (f)	tonnes (sulphur content)	376 000	391 000	395 000	394 000	322 000
Tin, smelter	tonnes	7 700	8 000	8 400	9 200	8 700
Slab Zinc	tonnes	222 000	238 000	254 000	251 000	137 000

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	2005	2006	2007	2008	2009
Cement						
Cement, finished	tonnes	767 000	796 000	908 000	907 500	929 820
Cement clinker	tonnes	834 000	816 000	817 000	761 800	706 426
Crude steel	tonnes	2 194 000	2 802 000	2 858 000	2 582 000	2 141 000

Belgium-Luxembourg

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	14 573 270	15 452 434	16 081 634	15 843 526	13 721 097
Aluminium and bauxite						
Bauxite	tonnes	46 717	53 680	75 904	53 444	223 631
Alumina	tonnes	10 714	18 151	13 629	4 858	5 686
Unwrought	tonnes	267 811	210 559	164 800	160 684	121 708
Unwrought alloys	tonnes	38 889	29 871	268 119	175 510	108 301
Scrap	tonnes	149 914	186 613	208 272	190 301	44 530
Antimony						
Ores and concentrates	tonnes	77	360	301	228	530
Metal	tonnes	693	1 580	974	494	533
Oxide	tonnes	11 526	12 661	11 643	9 636	8 811
Arsenic						
Metallic arsenic	tonnes	101	2 542	117	77	42

Belgium-Luxembourg

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Asbestos						
Unmanufactured	tonnes	...	164	17	—	—
Barytes	tonnes	4 016	19 004	506	1 381	2 638
Bentonite and fuller's earth						
Bentonite	tonnes	26 049	32 407	18 504	34 034	36 264
Fuller's earth	tonnes	501	303	...	...	...
Bismuth						
Metal	tonnes	* —	* —	355	162	413
Bromine	kilograms	19 124 000	20 738 100	17 430 000	20 963 000	17 466 300
Cadmium						
Metal	tonnes	639	298	181	442	452
Sulphide	tonnes	29	7	...	...	...
Cement						
Cement clinkers	tonnes	833 257	544 183	1 078 149	1 075 183	994 914
Portland cement	tonnes	1 715 979	1 811 884	2 087 094	2 069 807	1 841 912
Other cement	tonnes	612 642	609 236	606 807	821 103	555 773
Chromium						
Ores and concentrates	tonnes	10 777	14 485	11 405	48 086	15 562
Metal	tonnes	782	520	635	772	1 228
Coal						
Anthracite	tonnes	1 463 646	1 521 523	1 454 115	1 400 377	675 097
Other coal	tonnes	2 948 838	3 734 518	3 670 706	4 416 217	4 640 602
Briquettes	tonnes	11 682	7 923	8 214	11 331	11 453
Cobalt						
Ore	tonnes	543	197	1 204	1 112	1 227
Metal	tonnes	(a)* 3 100	4 329	5 104	4 393	2 714
Oxides (a)	tonnes	* 5 500	* 5 800	* 6 000	* 7 000	* 4 600
Copper						
Ores and concentrates	tonnes	1 887	1 778	1 061	2 155	4 594
Matte and cement	tonnes	401	1 026	1 104	4 139	2 432
Unwrought, unrefined	tonnes	4 499	8 833	10 730	10 534	11 571
Unwrought, refined	tonnes	241 363	236 804	199 650	257 907	248 501
Unwrought alloys	tonnes	14 463	13 419	15 081	12 929	9 264
Scrap	tonnes	177 787	163 418	194 666	164 502	112 142
Diamond						
Unsorted	carats	£785 000	£889 000	...	£503 000	£2 292 000
Gem, rough	carats	147 000 000	128 000 000	135 000 000	99 500 000	85 500 000
Gem, cut	carats	5 500 000	4 500 000	8 035 000	5 950 000	5 178 000
Industrial	carats	5 500 000	2 000 000	5 000 000	4 100 000	1 600 000
Dust	carats	40 000 000	35 500 000	27 000 000	23 000 000	18 000 000
Diatomite	tonnes	1 330	1 949	1 145	2 633	1 919
Feldspar	tonnes	...	...	...	994	1 137
Fluorspar	tonnes	26 395	110 965	105 822	156 066	84 491
Gold						
Metal	kilograms	100	300	16 200	56 100	38 000
Waste and scrap	kilograms	458 400	438 000	128 400	134 500	29 100
Graphite	tonnes	834	460	438	3 815	2 634
Gypsum						
Crude	tonnes	46 691	62 303	54 953	89 627	113 954
Calcined	tonnes	2 709	4 707	4 271	4 369	2 484
Iodine	kilograms	3 460 200	3 272 600	2 633 100	3 560 100	2 582 300
Iron ore	tonnes	81 560	43 555	41 440	85 701	178 567
Iron, steel and ferro-alloys						
Pig iron	tonnes	201 577	230 490	275 411	283 034	106 120
Sponge and powder	tonnes	15 850	19 750	36 997	20 773	14 655
Ferro-chrome	tonnes	31 851	38 401	54 201	38 927	20 403
Ferro-silico-chrome	tonnes	9 107	17 169	15 141	12 463	15 645
Ferro-silico-magnesium	tonnes	11	52	6 744	6 172	782
Ferro-manganese	tonnes	11 674	11 122	16 126	24 024	9 923
Ferro-silico-manganese	tonnes	29 858	41 422	52 431	40 777	31 374
Ferro-molybdenum	tonnes	22 420	22 679	20 153	17 759	16 936
Ferro-silicon	tonnes	21 812	39 501	68 385	54 905	47 214
Other ferro-alloys	tonnes	6 689	6 498	1 988	5 401	1 651
Silicon metal	tonnes	9 095	6 765	5 869	6 673	5 954
Ingots, blooms, billets	tonnes	639 936	859 247	1 089 364	958 406	296 473
Scrap	tonnes	2 712 683	3 052 438	3 268 578	3 754 867	3 360 083

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Kaolin	tonnes	777 451	628 479	612 062	1 030 344	783 924
Lead						
Ores and concentrates	tonnes	96 610	113 576	96 059	114 105	148 562
Unwrought	tonnes	110 372	98 077	111 344	95 883	108 442
Scrap	tonnes	9 142	15 071	20 780	18 639	22 085
Lithium						
Oxides	tonnes	1 545	1 236	1 370	1 281	781
Carbonate	tonnes	4 999	5 107	4 915	3 567	3 042
Magnesite and magnesia						
Magnesite	tonnes	575	1 520	1 958	2 392	1 467
Magnesia	tonnes	52 665	75 011	64 293	81 186	59 644
Manganese						
Ores and concentrates	tonnes	10 648	5 138	15 819	8 578	5 192
Metal	tonnes	1 826	7 045	4 060	1 947	837
Mercury	kilograms	8 800	42 300	3 300	110 800	1 400
Mica	tonnes	3 226	3 225	3 226	2 127	1 562
Molybdenum						
Ores and concentrates	tonnes	17 683	24 320	22 340	11 314	15 581
Metal	tonnes	342	194	556	243	105
Oxides	tonnes	687	905	829	379	91
Nickel						
Ores and concentrates	tonnes	853	877	1 423	2 750	6 883
Mattes, sinters etc	tonnes	209	559	68	115	921
Unwrought	tonnes	13 376	14 324	15 642	13 298	11 883
Unwrought alloys	tonnes	2 510	1 994	2 401	2 152	2 479
Scrap	tonnes	1 008	3 656	4 954	2 872	1 212
Oxides	tonnes	702	685	476	1 196	843
Crude petroleum	tonnes	2 616 977	2 833 897	2 422 211	2 496 349	2 390 390
Natural gas	tonnes	17 889 507	39 448 874	20 807 227	59 248 950	7 659 170
Phosphate rock	tonnes	108 238	82 232	115 628	84 619	15 794
Platinum metals						
Platinum	kilograms	700	2 600	4 100	7 800	2 200
Platinum metals	kilograms	2 100	3 000	6 400	6 400	3 500
Waste and scrap	kilograms	305 700	934 000	592 300	649 800	339 900
Potash						
Fertiliser salts	tonnes	127	...	...	...	...
Sulphate (a)	tonnes	* 628 000	* 424 000	* 433 000	* 311 000	* 135 000
Chloride	tonnes	116 930	102 641	137 689	84 791	58 882
Other potassic fertilisers	tonnes	9 819	10 560	6 043	7 034	175
Rare earths						
Rare earth compounds	tonnes	413	302	802	408	335
Metals	tonnes	187	444	253	299	273
Salt	tonnes	121 103	94 196	55 208	61 231	125 475
Sillimanite minerals	tonnes	77 463	48 825	47 141	62 423	39 809
Silver						
Ores and concentrates	kilograms	7 200	8 000	47 600	33 100	6 200
Metal	kilograms	12 600	45 200	31 200	42 000	69 900
Sulphur and pyrites						
Sulphur	tonnes	47 927	38 494	18 393	73 317	74 240
Sulphur, sublimed and precipitated	tonnes	290	465	531	368	345
Talc	tonnes	168 900	144 081	165 105	139 619	113 000
Tantalum and niobium						
Tantalum	tonnes	...	0	3	26	3
Tin						
Concentrates	tonnes	286	118	68	161	42
Unwrought	tonnes	6 814	1 633	2 734	7 274	4 753
Unwrought alloys	tonnes	388	7 421	7 072	2 448	5 000
Scrap	tonnes	362	216	148	233	127
Titanium						
Titanium minerals	tonnes	131 597	100 498	129 722	100 210	58 687
Titanium slag	tonnes	4 219	20 830	3 209	5 085	...
Metal	tonnes	1 093	1 490	2 074	1 174	1 096
Oxides	tonnes	366 632	401 614	422 885	401 906	369 495
Tungsten						
Metal	tonnes	452	484	387	405	422
Carbide	tonnes	25	62	54	36	32

Belgium-Luxembourg

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Vanadium						
Ores and concentrates	tonnes	2 600	791	297	327	131
Zinc						
Ores and concentrates	tonnes	511 730	540 810	479 825	735 050	785 125
Unwrought	tonnes	10 058	13 275	22 114	8 379	13 626
Scrap	tonnes	37 754	57 851	42 673	15 900	17 067
Zirconium						
Concentrates	tonnes	22 965	27 054	23 645	16 056	28 907
Metal	tonnes	222	144	251	157	125

Note(s)

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	20 831 220	22 303 782	23 810 336	27 170 472	23 932 936
Aluminium and bauxite						
Bauxite	tonnes	87 376	59 874	85 963	88 894	40 840
Alumina	tonnes	10 879	28 030	28 985	14 918	8 104
Alumina hydrate	tonnes	37 831	45 723	46 815	36 100	30 199
Unwrought	tonnes	497 013	451 309	485 128	372 140	356 107
Unwrought alloys	tonnes	265 937	286 345	329 777	245 870	130 970
Scrap	tonnes	158 799	197 942	380 317	320 354	252 712
Antimony						
Metal	tonnes	10 722	11 543	11 915	8 851	7 523
Oxide	tonnes	1 735	2 524	2 342	920	750
Arsenic						
Metallic arsenic	tonnes	164	105	466	65	17
Asbestos						
Unmanufactured	tonnes	13	200	200	6	166
Barytes	tonnes	26 832	32 196	39 041	33 685	20 867
Bentonite and fuller's earth						
Bentonite	tonnes	45 282	48 871	42 816	74 621	63 062
Fuller's earth	tonnes	8 028	7 036	...	...	...
Bismuth						
Metal	tonnes	27	109	111	190	9
Bromine	kilograms	25 108 000	24 553 300	21 768 500	26 540 000	20 618 700
Cadmium						
Metal	tonnes	4 779	3 948	5 038	5 511	3 439
Sulphide	tonnes	29	13	...	...	...
Cement						
Cement clinkers	tonnes	442 986	545 575	798 670	664 109	702 461
Portland cement	tonnes	898 871	897 315	892 981	988 208	836 178
Other cement	tonnes	275 177	277 825	391 850	315 620	308 913
Chromium						
Ores and concentrates	tonnes	18 464	22 053	20 761	56 183	19 050
Metal	tonnes	1 245	1 264	1 188	1 114	874
Coal						
Anthracite	tonnes	3 293 344	2 608 840	2 864 554	3 999 349	1 453 024
Other coal	tonnes	8 997 265	10 534 424	9 679 689	10 252 899	5 890 867
Lignite	tonnes	229 192	279 982	278 700	372 271	263 260
Briquettes	tonnes	14 120	29 848	26 260	21 776	32 151
Cobalt						
Ore	tonnes	263	107	153	222	274
Metal (a)	tonnes	* 4 700	* 4 300	* 6 600	* 4 600	* 3 200
Oxides (a)	tonnes	* 1 300	* 600	* 600	* 600	* 100

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Copper						
Ores and concentrates	tonnes	5 225	17 263	21 137	12 039	17 380
Matte and cement	tonnes	370	1 112	6 360	4 485	36 357
Unwrought, unrefined	tonnes	237 645	267 505	224 439	206 660	212 932
Unwrought, refined	tonnes	9 515	21 818	28 746	54 463	79 524
Unwrought alloys	tonnes	1 906	1 083	3 324	1 898	2 678
Scrap	tonnes	257 738	300 260	328 676	258 551	222 735
Diamond						
Unsorted	carats	£37 971 000	£38 530 000	£32 612 000	£27 166 000	£27 288 000
Gem, rough	carats	134 500 000	67 500 000	63 500 000	55 000 000	44 000 000
Gem, cut	carats	6 500 000	6 000 000	29 500 000	91 500 000	109 500 000
Industrial	carats	£46 159 000	£44 325 000	£35 072 000	£41 557 000	£24 632 000
Dust	carats	£8 989 000	£7 464 000	£9 606 000	£13 140 000	£9 500 000
Diatomite	tonnes	8 192	7 450	8 633	8 506	6 708
Feldspar	tonnes	25 876	21 483	26 151	34 988	27 237
Fluorspar	tonnes	70 149	123 392	130 437	170 562	92 546
Gold						
Metal	kilograms	14 400	9 600	18 300	53 000	23 100
Waste and scrap	kilograms	(a)* 34 000	147 099	362 364	(a)* 124 000	(a)* 116 000
Graphite	tonnes	3 040	1 836	2 323	3 625	5 049
Gypsum						
Crude	tonnes	768 702	811 923	1 118 788	1 232 112	704 775
Calcined	tonnes	460 067	449 433	521 942	531 049	440 258
Iodine	kilograms	3 332 800	3 513 200	2 774 500	3 586 200	3 189 200
Iron ore (b)	tonnes	9 384 885	11 387 178	9 583 857	12 337 572	3 279 543
Iron, steel and ferro-alloys						
Pig iron	tonnes	330 709	560 116	552 212	548 129	282 010
Sponge and powder	tonnes	48 915	102 543	33 539	22 021	19 441
Ferro-chrome	tonnes	220 896	342 280	452 118	378 018	185 436
Ferro-silico-chrome	tonnes	9 587	19 190	17 149	15 483	0
Ferro-silico-magnesium	tonnes	1 656	2 040	12 168	10 433	5 000
Ferro-manganese	tonnes	60 564	54 402	65 987	89 088	22 459
Ferro-silico-manganese	tonnes	60 454	69 526	149 121	92 194	62 548
Ferro-molybdenum	tonnes	5 199	5 929	5 405	2 339	2 225
Ferro-nickel	tonnes	61 454	73 384	90 808	89 430	46 248
Ferro-niobium	tonnes	849	936	3 252	2 003	1 225
Ferro-phosphorus	tonnes	1 700	1 607	2 185	10 421	3 124
Ferro-silicon	tonnes	79 901	109 389	150 254	126 700	65 734
Ferro-titanium and ferro-silico-titanium	tonnes	2 141	3 016	3 553	5 595	2 182
Ferro-vanadium	tonnes	650	338	615	693	396
Other ferro-alloys	tonnes	7 499	6 887	—	—	160
Silicon metal	tonnes	18 563	20 117	17 307	20 098	19 002
Ingots, blooms, billets	tonnes	3 452 850	2 876 977	3 500 081	3 540 429	2 331 000
Scrap	tonnes	3 761 788	4 297 928	7 416 312	8 095 587	5 508 621
Kaolin	tonnes	962 536	868 255	862 714	1 476 705	912 100
Lead						
Ores and concentrates	tonnes	134 300	120 136	108 165	97 474	192 496
Unwrought	tonnes	18 807	15 081	36 620	30 543	18 267
Scrap	tonnes	26 699	41 070	55 153	25 873	34 096
Lithium						
Oxides	tonnes	2 014	1 201	1 784	1 851	1 179
Carbonate	tonnes	6 205	5 357	5 895	4 414	3 410
Magnesite and magnesia						
Magnesite	tonnes	767	3 872	4 326	4 064	4 514
Magnesia	tonnes	84 730	152 330	101 911	141 283	104 627
Manganese						
Ores and concentrates	tonnes	66 840	65 462	79 022	83 909	61 980
Metal	tonnes	4 150	10 114	6 403	4 425	3 093
Mercury	kilograms	18 658	44 852	8 369	133 278	16 212
Mica						
Unmanufactured	tonnes	913	470	1 204	2 155	3 454
Ground	tonnes	2 996	2 646	3 461	5 410	3 507
Waste	tonnes	...	...	4 364	2 107	45
Molybdenum						
Ores and concentrates	tonnes	54 452	47 122	43 932	37 964	37 101
Metal	tonnes	383	490	752	360	344
Oxides	tonnes	2 072	2 618	2 796	2 075	968

Belgium-Luxembourg

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Nickel						
Mattes, sinters etc	tonnes	214	203	1 194	1 250	499
Unwrought	tonnes	41 364	51 130	37 554	29 492	12 037
Unwrought alloys	tonnes	822	483	427	734	734
Scrap	tonnes	1 221	271	9 946	566	288
Oxides	tonnes	324	349	241	618	565
Crude petroleum	tonnes	32 376 844	33 843 960	34 847 067	35 556 838	32 376 844
Natural gas	tonnes	31 896 566	32 123 464	29 397 014	29 615 925	32 320 773
Phosphate rock	tonnes	1 688 029	1 299 125	1 512 076	1 458 336	579 427
Platinum metals						
Platinum	kilograms	88 976	6 421	13 300	28 600	5 900
Platinum metals	kilograms	2 873	4 061	2 000	100	200
Potash						
Fertiliser salts	tonnes	17 331	2 628	...	...	...
Sulphate	tonnes	260 839	2 839	5 073	7 317	18 355
Chloride	tonnes	1 211 640	576 972	587 275	559 104	293 965
Other potassic fertilisers	tonnes	17 698	7 693	612	825	2 109
Rare earths						
Cerium compounds	tonnes	411	280	490	259	421
Other rare earth compounds	tonnes	139	138	353	142	292
Ferro-cerium and other pyrophoric alloys	tonnes	5	5	2	3	62
Metals	tonnes	252	443	297	259	323
Salt	tonnes	1 315 385	2 275 674	1 230 983	1 220 421	1 371 028
Sillimanite minerals	tonnes	81 538	50 726	52 899	68 986	40 981
Silver						
Ores and concentrates	kilograms	625	536 600	195 900	254 200	1 567 600
Metal	kilograms	175 200	258 700	443 200	354 200	233 900
Sulphur and pyrites						
Sulphur, crude	tonnes	167 624	...	...	265 363	...
Sulphur, refined	tonnes	322 649	(c) 574 515	(c) 506 662	351 577	(c) 463 971
Sulphur, sublimed and precipitated	tonnes	127	156	311	1 852	750
Talc	tonnes	224 624	186 227	202 593	194 833	149 768
Tin						
Concentrates	tonnes	377	154	17	318	16
Unwrought	tonnes	1 210	1 312	1 657	1 112	1 364
Unwrought alloys	tonnes	1 284	1 368	2 719	2 235	2 638
Scrap	tonnes	1 382	4 866	3 907	2 422	2 327
Titanium						
Ilmenite	tonnes	—	720	—	1 337	586
Other titanium minerals	tonnes	165 711	156 771	221 173	203 355	109 443
Metal	tonnes	2 289	1 857	4 139	3 904	2 198
Oxides	tonnes	291 670	314 131	145 929	133 378	109 696
Tungsten						
Metal	tonnes	340	454	513	426	327
Carbide	tonnes	42	64	1 182	1 028	500
Vanadium						
Ores and concentrates	tonnes	894	197	162	202	123
Pentoxide	tonnes	267	12	64	38	94
Metal	tonnes	60	67	...	...	...
Zinc						
Ores and concentrates	tonnes	1 182 083	1 109 923	1 100 875	* 1 100 000	* 550 000
Unwrought	tonnes	46 505	73 894	218 660	211 576	243 790
Unwrought alloys	tonnes	35 653	24 414	13 475	8 612	13 536
Scrap	tonnes	44 890	44 221	60 039	40 657	61 433
Zirconium						
Concentrates	tonnes	14 504	18 763	17 593	17 337	28 897
Metal	tonnes	605	556	469	433	214

Note(s)

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

(b) Including burnt pyrites

(c) Including crude

Bulgaria

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	12 835 622	15 289 051	17 607 212	19 697 937	12 882 651
Crushed rock	tonnes	8 121 646	8 889 017	12 199 339	21 094 047	15 667 880
Barytes	tonnes	76 600	74 500	50 900	40 100	14 300
Bentonite and fuller's earth	tonnes	181 200	134 500	99 000	178 700	108 400
Bentonite						
Bismuth, mine	tonnes (metal content)	* 40	* 45	* 45	* 45	...
Cadmium	tonnes	319	320	318	376	413
Cement						
Cement clinker	tonnes	...	...	...	3 509 817	1 858 850
Cement, finished	tonnes	3 559 420	4 003 664	* 4 290 000	4 900 336	2 660 176
Coal						
Lignite	tonnes	22 146 100	22 749 500	25 325 000	26 007 800	25 014 800
Brown coal	tonnes	2 469 200	2 556 900	2 833 500	2 643 200	2 243 800
Copper, mine	tonnes (metal content)	112 536	123 571	116 157	107 195	110 652
Copper, smelter	tonnes	225 000	217 000	217 600	257 100	256 200
Copper, refined	tonnes	60 500	65 500	69 900	126 700	196 900
Feldspar	tonnes	72 867	93 091	* 90 000	* 90 000	* 90 000
Gold, mine	kilograms (metal content)	3 868	3 818	3 964	4 160	4 482
Gypsum	tonnes	187 700	215 800	234 300	21 200	127 600
Pig iron	tonnes	1 115 000	1 147 000	1 069 000	441 000	...
Crude steel	tonnes	1 969 000	2 102 000	1 909 000	1 330 000	726 000
Ferro-alloys						
Ferro-silicon	tonnes	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Kaolin	tonnes	* 200 000	* 240 000	* 240 000	* 220 000	* 140 000
Lead, mine (c)	tonnes (metal content)	24 354	19 571	17 768	14 577	12 981
Lead, refined	tonnes	81 000	76 000	87 000	90 900	83 100
Manganese ore	tonnes	38 500	20 500	27 900	39 100	28 300
Perlite	tonnes	15 300	4 500	13 900	7 400	14 800
Crude petroleum	tonnes	30 000	27 500	25 700	23 000	23 800
Natural gas	million m ³	573	519	295	218	15
Salt	tonnes	1 900 000	2 000 000	2 000 000	2 100 000	1 300 000
Silver, mine	kilograms (metal content)	* 55 000	* 65 000	* 55 000	* 55 000	* 55 000
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	312 000	340 000	359 000	352 000	379 000
Recovered (b)	tonnes (sulphur content)	30 000	35 000	35 000	30 000	35 000
Zinc, mine (c)	tonnes (metal content)	20 875	16 108	14 453	12 819	9 339
Slab Zinc	tonnes	92 500	85 900	98 100	101 700	92 700

Note(s)

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

(a) From metal sulphide processing

(b) From petroleum refining and/or Natural gas

(c) Metal content of ore

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	160 032	282 018	330 088	268 120	76 129
Aluminium and bauxite						
Unwrought alloys	tonnes	5 254	11 692	10 290	8 931	2 775
Scrap	tonnes	21 902	29 245	23 577	18 478	20 577
Barytes	tonnes	76 644	74 523	50 922	46 907	14 326
Bentonite and fuller's earth						
Bentonite	tonnes	76 614	89 531	74 412	103 106	79 359
Cadmium						
Metal	tonnes	316	369	434	374	569

Bulgaria

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Cement						
Cement clinkers	tonnes	338 505	293 031	353 996	120 588	14 836
Portland cement	tonnes	455 824	334 013	52 803	130 932	109 923
Other cement	tonnes	27	40	1 067	22 589	394
Coal						
Hard coal (a)	tonnes	3 920	5 372	17 358	36 095	11 511
Copper						
Ores and concentrates	tonnes	124 717	193 389	168 155	105 889	134 910
Matte and cement	tonnes	5 750	4 818	6 335	3 559	4 749
Unwrought	tonnes	219 009	210 520	185 012	252 018	226 404
Scrap	tonnes	8 244	13 163	11 590	10 547	10 717
Feldspar	tonnes	452	6 159	22 519	16 912	15 007
Gypsum						
Crude and calcined	tonnes	2 347	2 439	1 439	787	11 965
Iodine	kilograms	1 199	781	51 610	200	300
Iron, steel and ferro-alloys						
Pig iron	tonnes	51	44 549	62 032	23 553	1 420
Ferro-silico-manganese	tonnes	1 501	3 638	6 845	288	...
Ferro-silicon	tonnes	1 499	3 345	4 972	2 076	2 890
Other ferro-alloys	tonnes	72	180	2 072	550	9 867
Silicon metal	tonnes	15	11	2 374	46	...
Ingots, blooms, billets	tonnes	97 757	163 020	135 710	85 466	54 115
Scrap	tonnes	784 778	722 261	677 347	740 414	510 997
Kaolin	tonnes	124 899	149 559	160 372	139 069	119 736
Lead						
Ores and concentrates	tonnes	6 165	10 900	23 417	9 555	4 188
Unwrought	tonnes	69 825	65 400	66 384	80 972	77 713
Manganese						
Ores and concentrates	tonnes	53 559	25 595	19 335	17 369	29 715
Molybdenum						
Metal	tonnes	105	87	99	123	132
Nickel						
Scrap	tonnes	12	4	20	48	364
Platinum metals						
Waste and scrap (b)	kilograms	* 31 400	* 73 200	* 94 700	* 1 400	* 44 000
Salt	tonnes	10 090	16 020	13 943	8 239	2 689
Silver						
Metal	kilograms	...	...	49 468	36 516	58 565
Sulphur and pyrites						
Sulphur	tonnes	25 019	31 737	33 039	28 993	20 840
Titanium						
Metal	tonnes	9	4	28	835	2
Zinc						
Ores and concentrates	tonnes	...	492	4 384	7 982	2 076
Unwrought (c)	tonnes	82 902	227 543	90 573	96 678	87 008
Scrap	tonnes	1 576	1 854	1 511	1 293	2 226

Note(s)

(a) Including anthracite

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

(c) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	17 200	19 383	41 782	41 256	22 189
Aluminium and bauxite						
Alumina	tonnes	1 401	2 039	2 368	1 370	1 859
Unwrought	tonnes	25 562	46 154	39 850	42 738	39 759
Unwrought alloys	tonnes	15 185	20 490	19 617	18 557	16 050
Scrap	tonnes	1 449	2 179	3 554	4 028	3 014
Antimony						
Metal	tonnes	...	34	100	35	40
Arsenic						
Metallic arsenic	tonnes	5	10	30	12	11
Bentonite and fuller's earth						
Bentonite	tonnes	1 178	1 455	2 979	3 386	2 422
Fuller's earth	tonnes	422	537	...	...	...
Cement						
Cement clinkers	tonnes	180 254	586 194	123 806	248 737	45 002
Portland cement	tonnes	23 787	9 127	5 690	13 645	481 991
Other cement	tonnes	1 128	1 665	1 829	1 110	955
Chromium						
Ores and concentrates	tonnes	997	1 440	969	793	637
Coal						
Anthracite	tonnes	2 016 911	2 170 631	2 229 619	2 841 458	1 938 000
Other coal	tonnes	1 853 556	2 221 526	2 415 165	2 054 649	1 130 146
Briquettes	tonnes	986	61	112 769	66 678	10 238
Copper						
Ores and concentrates	tonnes	632 255	581 055	539 325	609 258	635 039
Matte and cement	tonnes	562	5 003	10 025	34 997	15 160
Unwrought	tonnes	18 613	19 735	28 226	30 422	8 016
Scrap	tonnes	5 094	7 784	12 899	23 856	20 730
Diamond						
Dust	carats	...	...	14 770 306	7 623 860	4 940 300
Diatomite	tonnes	1 312	1 156	436	587	404
Feldspar	tonnes	34 723	40 416	35 851	31 346	54 178
Fluorspar	tonnes	1 210	2 321	1 326	651	778
Graphite	tonnes	319	433	250	158	132
Gypsum						
Crude	tonnes	18 684	10 088	8 240	12 223	15 830
Calcined	tonnes	49 163	56 869	58 880	70 280	42 086
Iodine	kilograms	5 080	3 990	6 500	2 900	2 900
Iron ore						
Iron ore	tonnes	1 050 925	1 305 110	919 785	208 559	3 110
Burnt pyrites	tonnes	437 710	450 004	464 580	188 923	15 831
Iron, steel and ferro-alloys						
Pig iron	tonnes	19 624	15 278	26 932	27 941	6 736
Sponge and powder	tonnes	384	542	31 306	1 282	14 572
Ferro-chrome	tonnes	836	1 088	916	656	182
Ferro-manganese	tonnes	5 540	6 133	7 981	4 206	3 137
Ferro-silico-manganese	tonnes	666	1 885	3 336	4 325	3 479
Ferro-silicon	tonnes	3 897	4 410	2 977	3 331	1 152
Other ferro-alloys	tonnes	1 140	1 789	2 390	1 906	1 033
Silicon metal	tonnes	585	9 733	873	763	247
Ingots, blooms, billets	tonnes	275 001	417 485	462 348	567 381	306 020
Scrap	tonnes	108 450	188 698	295 555	237 055	202 276
Kaolin	tonnes	76 231	91 831	29 717	28 748	20 623
Lead						
Ores and concentrates	tonnes	83 398	100 736	92 929	119 522	63 185
Unwrought	tonnes	10 723	11 305	15 854	15 529	10 182
Scrap	tonnes	1 227	1 346	3 338	5 830	12 145
Magnesite and magnesia	tonnes	8 500	6 551	4 670	6 296	3 180
Manganese						
Ores and concentrates	tonnes	13 631	17 367	27 602	—	20
Molybdenum						
Metal	tonnes	108	73	47	15	47
Nickel						
Unwrought (a)	tonnes	202	205	195	204	90
Crude petroleum	tonnes	(b)* 3 752 000	(b)* 4 866 000	7 162 499	7 262 658	5 770 397
Phosphate rock	tonnes	543 637	449 874	462 247	534 734	309 564

Bulgaria

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Platinum metals						
Platinum and platinum metals	kilograms	366	31	82 367	613	16
Potash						
Potassic fertilisers	tonnes	7 794	9 102	4 845	4 633	1 970
Salt	tonnes	165 727	181 801	71 848	103 007	102 272
Silver						
Metal	kilograms	...	...	10 521	2 189	871
Sulphur and pyrites						
Sulphur	tonnes	1 076	767	1 039	487	162
Talc	tonnes	599	626	688	1 048	747
Tin						
Unwrought (a)	tonnes	51	278	51	69	22
Titanium						
Titanium minerals	tonnes	1 287	300	712	42	105
Oxides	tonnes	3 959	4 750	5 398	5 955	5 329
Zinc						
Ores and concentrates	tonnes	149 735	198 504	208 313	146 655	147 579
Unwrought (a)	tonnes	1 450	9 994	3 330	5 095	2 480
Zirconium						
Concentrates	tonnes	1 589	1 421	1 357	1 081	573

Note(s)

(a) Including alloys

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

Croatia

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	...	...	...	7 275 077	6 583 880
Bentonite and fuller's earth						
Bentonite	tonnes	17 391	16 410	19 578	19 759	* 20 000
Gypsum	tonnes	196 133	170 351	170 721	* 250 000	318 139
Crude steel	tonnes	73 640	80 516	76 252	121 759	51 583
Crude petroleum	tonnes	980 486	950 859	911 207	867 027	* 900 000
Natural gas	million m ³	2 384	2 714	2 892	1 229	1 238
Salt	tonnes	36 970	29 589	32 536	54 937	57 186
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	9 000	7 000	9 000	7 000	11 000

Note(s)

(a) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 908 732	2 390 517	3 334 229	2 950 159	3 087 216
Aluminium and bauxite						
Scrap	tonnes	15 927	19 832	20 886	17 769	15 779
Cement						
Cement clinkers	tonnes	196 594	244 043	310 378	235 377	169 394
Portland cement	tonnes	1 254 309	1 282 560	855 579	667 503	615 827
Other cement	tonnes	92 074	89 957	94 185	468 597	276 981
Copper						
Scrap	tonnes	10 814	12 105	12 378	10 884	10 202
Gypsum						
Crude and calcined	tonnes	4 890	6 349	4 808	4 738	3 119
Iron, steel and ferro-alloys						
Scrap	tonnes	318 840	398 070	427 540	357 487	302 085
Lead						
Scrap	tonnes	794	1 057	3 590	1 872	1 025
Natural gas	tonnes	601 267	871 768	540 782	457 192	570 296
Platinum metals						
Waste and scrap	kilograms	76 039	27 719	18 314	27 018	27 959
Salt	tonnes	5 688	9 759	3 986	4 530	9 995
Silver						
Metal	kilograms	352	...	...	...	...
Sulphur and pyrites						
Sulphur	tonnes	8 028	6 606	8 614	7 604	8 664
Titanium						
Oxides	tonnes	155	419	489	417	331
Zinc						
Scrap	tonnes	417	511	683	700	708

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	4 603 358	3 867 559	4 583 241	4 618 579	1 871 236
Aluminium and bauxite						
Bauxite	tonnes	112 007	80 441	115 367	107 237	72 103
Alumina	tonnes	1 672	1 405	2 431	2 440	1 021
Unwrought	tonnes	56 509	53 021	54 067	57 828	37 828
Unwrought alloys	tonnes	14 915	18 893	22 039	20 786	28 251

Croatia

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Asbestos						
Unmanufactured	tonnes	2 429	...	...	...	...
Barytes	tonnes	715	893	98	1 525	889
Bentonite and fuller's earth						
Bentonite	tonnes	1 897	2 053	7 633	39 289	22 383
Fuller's earth	tonnes	136	260	...	...	...
Bismuth						
Metal	tonnes	10	5	10	8	—
Cement						
Portland cement	tonnes	379 711	447 202	340 112	393 886	393 613
Other cement	tonnes	1 569	5 547	5 242	7 447	10 620
Chromium						
Ores and concentrates	tonnes	537	615	584	568	282
Metal	tonnes	54	51	280	394	307
Coal						
Hard coal (a)	tonnes	957 899	1 082 446	1 101 803	1 189 379	712 873
Lignite	tonnes	77 959	78 226	62 789	58 417	47 504
Briquettes	tonnes	4 733	6 084	2 604	2 796	1 730
Diatomite	tonnes	495	633	610	511	462
Feldspar	tonnes	17 011	15 986	16 212	15 983	14 603
Fluorspar	tonnes	143	124	149	289	165
Gold						
Metal	kilograms	1 083	992	1 608	693	1 221
Gypsum						
Crude	tonnes	41 665	25 095	48 775	38 120	14 470
Calcined	tonnes	33 316	37 052	37 034	34 224	22 154
Iron ore (b)	tonnes	12 605	12 604	14 444	17 177	12 057
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 270	16 994	17 011	15 031	8 420
Ferro-alloys	tonnes	2 893	3 031	3 027	4 790	2 239
Ingots, blooms, billets	tonnes	12 421	27 291	20 953	20 077	19 396
Scrap	tonnes	18 407	17 563	29 553	19 400	10 628
Kaolin	tonnes	7 941	16 423	21 845	24 009	14 486
Lead						
Unwrought	tonnes	1 492	1 415	911	680	376
Magnesite and magnesia	tonnes	1 647	1 564	1 872	1 682	1 289
Manganese						
Metal	tonnes	93	89	586	64	53
Crude petroleum	tonnes	3 855 070	3 778 918	4 285 565	3 476 266	4 044 874
Natural gas	tonnes	1 088 406	1 085 554	700 955	855 326	738 109
Phosphate rock	tonnes	272 005	317 571	327 936	328 599	117 441
Platinum metals						
Platinum and platinum metals	kilograms	12 320	107	171	152	76
Potash						
Chloride	tonnes	131 567	149 424	159 288	157 994	10 538
Other potassic fertilisers	tonnes	2 083	3 594	3 564	2 958	1 091
Salt	tonnes	226 931	193 911	104 066	176 408	197 644
Silver						
Metal	kilograms	3 837	5 043	3 684	3 293	2 353
Sulphur and pyrites						
Pyrites	tonnes	101	122	75	32	124
Sulphur	tonnes	70 897	86 431	71 965	98 785	10 349
Sulphur, sublimed and precipitated	tonnes	1 923	3 492	2 425	4	51
Talc	tonnes	1 378	1 753	1 985	1 709	1 721
Titanium						
Oxides	tonnes	2 561	2 827	3 244	2 989	2 697
Zinc						
Unwrought (c)	tonnes	3 329	11 506	4 674	4 656	3 149

Note(s)

- (a) Including anthracite
(b) Including burnt pyrites
(c) Including alloys

Cyprus

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Crushed rock	tonnes	12 064 112	12 198 513	13 129 470	14 174 480	11 467 987
Bentonite and fuller's earth						
Bentonite	tonnes	172 366	150 620	154 655	155 125	152 722
Cement						
Cement clinker	tonnes	37 891	97 846	—	—	30 286
Cement, finished	tonnes	1 804 645	1 786 488	1 872 531	1 913 620	1 480 843
Copper, mine	tonnes (metal content)	—	900	2 900	3 000	2 500
Copper, refined	tonnes	—	880	3 012	2 986	2 380
Gypsum	tonnes	215 500	270 000	330 000	412 000	317 000

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	55	5 118	148 994	124 576	38 469
Aluminium and bauxite						
Scrap	tonnes	4 578	4 880	4 745	4 409	5 934
Bentonite and fuller's earth						
Bentonite	tonnes	85 724	159 472	156 871	92 089	95 674
Cement						
Cement clinkers	tonnes	37 891	91 635	0	...	24 215
Portland cement	tonnes	219 460	155 271	51 022	...	27 324
Copper						
Unwrought	tonnes	...	879	3 006	2 986	2 449
Scrap	tonnes	2 548	2 684	2 122	2 381	3 400
Gypsum						
Crude and calcined	tonnes	73 741	152 621	203 109	279 902	236 427
Iron, steel and ferro-alloys						
Scrap	tonnes	55 240	65 998	63 662	72 106	80 349
Lead						
Scrap	tonnes	1 212	129	488	—	188
Phosphate rock	tonnes	...	...	...	2 960	...
Salt	tonnes	635	521	769	956	2 910
Zinc						
Scrap	tonnes	63	69	1 746	...	118

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	5 921	11 605	15 497	28 990	11 564
Aluminium and bauxite						
Unwrought alloys	tonnes	9 898	12 481	13 868	13 408	8 721
Bentonite and fuller's earth						
Bentonite	tonnes	3 057	9 063	10 556	12 496	5 709
Cement						
Cement clinkers	tonnes	43 375	17 819	17 498	66 787	15 455
Portland cement	tonnes	2 339	1 241	1 017	29 311	249
Coal						
Hard coal (a)	tonnes	3	23 473	56 896	46 258	28 911
Diamond						
Gem, cut	carats	£690 000	£1 387 000	£1 311 000	£1 564 000	£1 724 000
Industrial	carats	£750 000	£1 072 000	£1 042 000	£1 311 000	£587 000
Gypsum						
Crude and calcined	tonnes	3 501	9 849	12 932	15 045	10 807
Platinum metals						
Platinum and platinum metals	kilograms	97	73	70	528	1 900

Cyprus

Imports

Commodity	Units	2005	2006	2007	2008	2009
Salt	tonnes	13 795	13 647	12 208	13 445	16 822
Silver						
Metal	kilograms	5 675	2 866	3 746	2 863	1 993
Sulphur and pyrites						
Sulphur	tonnes	1 356	893	995	895	1 011
Talc	tonnes	386	307	343	521	290
Titanium						
Oxides	tonnes	1 286	1 227	1 243	1 603	1 189

Note(s)

(a) Including anthracite

Czech Republic

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	15 672 765	16 931 536	16 036 363	17 943 635	15 876 221
Crushed rock	tonnes	30 221 600	32 731 255	35 302 421	36 282 774	24 760 133
Bentonite and fuller's earth						
Bentonite	tonnes	216 000	267 000	335 000	235 000	181 000
Cement						
Cement clinker	tonnes	...	...	3 127 530	3 137 828	2 433 746
Cement, finished	tonnes	3 978 056	4 677 150	4 898 530	4 804 845	3 851 100
Coal						
Bituminous	tonnes	12 778 000	13 017 000	12 462 000	12 197 000	10 621 000
Lignite	tonnes	467 000	459 000	437 000	416 000	262 000
Brown coal	tonnes	48 658 000	48 915 000	49 134 000	47 456 000	45 354 000
Diatomite	tonnes	4 100	4 827	3 600	4 100	3 100
Feldspar	tonnes	472 000	487 000	514 000	488 000	431 000
Graphite	tonnes	3 000	5 000	3 000	3 000	—
Gypsum	tonnes	25 000	16 000	66 000	35 000	13 000
Pig iron	tonnes	4 627 000	5 192 000	5 287 000	4 737 000	3 483 000
Crude steel	tonnes	6 189 000	6 862 000	7 059 000	6 387 000	4 594 000
Ferro-alloys						
Ferro-vanadium	tonnes	* 2 600	* 2 800	* 1 700	* 2 800	* 1 900
Kaolin (a)	tonnes	649 000	673 000	682 000	672 000	525 000
Lead, refined	tonnes	26 000	26 000	26 000	26 000	26 000
Crude petroleum	tonnes	306 000	259 000	240 000	236 000	217 000
Natural gas	million m ³	356	148	148	167	180
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	65 000	65 000	65 000	61 000	55 000
Uranium, mine	tonnes (metal content)	420	383	322	290	286

Note(s)

(a) Beneficiated

(b) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	468 540	772 913	716 787	699 987	597 101
Aluminium and bauxite						
Unwrought (a)	tonnes	48 885	45 876	54 457	53 682	59 913
Scrap	tonnes	39 297	53 986	61 067	59 196	49 251
Antimony						
Oxide	tonnes	145	108	139	133	89
Bentonite and fuller's earth						
Bentonite	tonnes	85 093	86 296	97 358	105 403	99 584
Cement						
Cement clinkers	tonnes	29 169	32 521	29 924	19 039	85 427
Portland cement	tonnes	526 784	394 105	458 701	436 600	374 515
Other cement	tonnes	34 046	67 930	151 422	196 133	156 650
Chromium						
Ores and concentrates	tonnes	523	645	800	507	369
Metal	tonnes	109	2 104	946	594	662
Coal						
Hard coal (b)	tonnes	5 260 739	6 690 917	6 732 974	5 993 824	6 028 577
Lignite	tonnes	1 324 025	1 300 406	1 076 140	1 561 097	1 207 715
Briquettes	tonnes	148 966	213 621	...	75 459	93 479
Copper						
Unwrought	tonnes	4 251	12 651	10 301	7 829	14 645
Scrap	tonnes	53 707	57 152	58 534	63 825	105 230
Diamond						
Gem, cut	carats	£331 000	£451 000	£529 000	£3 947 000	£3 046 000

Czech Republic

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Diatomite	tonnes	4 247	4 566	1 094	4 128	3 789
Feldspar	tonnes	160 469	154 672	168 259	171 596	135 533
Fluorspar	tonnes	8 677	9 954	8 415	4 488	6 147
Gold						
Metal	kilograms	1 100	4 100	3 900	4 000	9 800
Waste and scrap	kilograms	600	700	6 100	5 200	5 600
Graphite	tonnes	3 489	3 518	4 029	4 076	2 150
Gypsum						
Crude	tonnes	33 307	46 837	105 394	60 018	10 195
Calcined	tonnes	4 272	6 249	5 973	7 881	6 430
Iodine	kilograms	1 000	800	1 000	300	500
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 526	17 599	31 182	30 457	24 041
Ferro-silicon	tonnes	5 396	6 516	8 254	8 780	4 285
Ferro-vanadium	tonnes	2 613	2 763	1 685	2 830	1 868
Other ferro-alloys	tonnes	14 358	15 078	8 704	13 897	12 274
Silicon metal	tonnes	512	1 040	1 118	1 375	783
Ingots, blooms, billets	tonnes	251 513	324 619	587 296	500 423	222 780
Scrap	tonnes	1 351 676	1 456 061	1 678 565	1 792 889	1 442 865
Kaolin	tonnes	268 850	261 019	173 251	233 819	174 814
Lead						
Unwrought	tonnes	8 665	10 359	16 707	18 713	23 617
Scrap	tonnes	4 948	6 648	6 855	8 136	4 832
Magnesite and magnesite	tonnes	6 273	4 099	3 988	4 540	3 728
Mercury	kilograms	8 200	1 700	3 600	6 300	6 400
Nickel						
Unwrought (a)	tonnes	57	690	171	758	228
Scrap	tonnes	843	1 036	1 245	601	2 420
Oxides	tonnes	658	602	617	643	275
Crude petroleum	tonnes	57 522	41 794	16 573	18 130	21 600
Natural gas	tonnes	58 767	—	—	—	834 462
Phosphate rock	tonnes	545	726	732	1 091	817
Platinum metals						
Platinum and platinum metals	kilograms	(c)* 3 300	(c)* 500	(c)* 800	3 400	5 200
Waste and scrap	kilograms	4 500	4 700	1 900	700	—
Potash						
Potassic fertilisers	tonnes	3 458	3 143	3 096	3 322	6 843
Rare earths						
Cerium compounds	tonnes	8	8	6	3	3
Other rare earth compounds	tonnes	4	5	6	5	0
Salt	tonnes	13 833	30 648	18 760	14 116	31 068
Silver						
Metal	kilograms	29 337	98 354	102 968	117 325	77 000
Sulphur and pyrites						
Sulphur	tonnes	9 294	11 718	5 579	16 670	20 153
Sulphur, sublimed and precipitated	tonnes	503	113	114	658	86
Tantalum and niobium						
Tantalum	tonnes	68	53	66	97	62
Tin						
Unwrought (a)	tonnes	381	74	253	86	76
Scrap	tonnes	65	249	958	85	118
Titanium						
Titanium minerals	tonnes	340	492	745	641	452
Metal	tonnes	358	424	126	84	339
Oxides	tonnes	40 707	43 010	43 166	42 860	46 753
Tungsten						
Metal	tonnes	185	142	102	86	30
Carbide	tonnes	...	579	605	592	307
Zinc						
Unwrought (a)	tonnes	7 865	10 669	18 786	17 258	19 982
Scrap	tonnes	2 498	3 086	2 981	2 705	2 716

Note(s)

(a) Including alloys

(b) Including anthracite

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	574 008	690 730	252 049	333 726	398 613
Aluminium and bauxite						
Bauxite	tonnes	24 315	24 829	26 865	17 698	9 857
Alumina	tonnes	28 458	24 078	30 523	28 245	5 995
Alumina hydrate	tonnes	10 898	9 782	7 834	6 916	6 672
Unwrought	tonnes	69 977	74 392	82 910	68 362	62 972
Unwrought alloys	tonnes	96 702	104 238	119 773	124 643	108 231
Scrap	tonnes	34 226	48 937	63 508	58 424	50 379
Antimony						
Metal	tonnes	72	82	64	131	55
Oxide	tonnes	588	503	604	521	209
Arsenic						
Metallic arsenic	tonnes	9	11	10	26	—
Barytes	tonnes	8 552	7 195	6 358	7 388	4 641
Bentonite and fuller's earth						
Bentonite	tonnes	14 776	18 452	23 559	24 239	25 129
Fuller's earth	tonnes	1 290	1 039	...	...	...
Bismuth						
Metal	tonnes	50	77	70	78	53
Bromine	kilograms	1 174	5 066	7 700	12 000	2 600
Cadmium						
Oxide	tonnes	251	...	338	463	396
Sulphide	tonnes	21	14	...	...	...
Cement						
Cement clinkers	tonnes	95 108	117 477	109 392	134 179	101 031
Portland cement	tonnes	1 027 011	1 001 321	918 739	932 685	890 776
Other cement	tonnes	38 434	38 439	30 602	23 816	51 482
Chromium						
Ores and concentrates	tonnes	12 440	11 380	13 936	12 990	7 798
Metal	tonnes	149	123	281	282	83
Coal						
Anthracite	tonnes	43 713	61 255	45 114	39 211	24 054
Other coal	tonnes	1 192 214	1 896 977	2 507 091	2 181 691	1 761 947
Lignite	tonnes	1 371	24 412	33 472	33 579	36 617
Briquettes	tonnes	853	23 837	1 393	18 654	60 962
Cobalt						
Metal	tonnes	75	84	108	199	220
Copper						
Unwrought	tonnes	4 196	5 412	15 156	11 474	21 475
Unwrought alloys	tonnes	355	2 909	3 755	3 862	3 050
Scrap	tonnes	6 114	8 104	8 966	8 677	9 639
Diamond						
Gem, cut	carats	2 755	18 182	5 837	116 669	7 306
Industrial	carats	27 453	30 377	43 006	30 181	7 640
Dust	carats	£ 956 000	£867 000	£884 000	£1 369 000	£977 000
Diatomite	tonnes	2 263	2 288	3 318	4 768	3 173
Feldspar	tonnes	13 315	16 032	14 213	11 414	5 330
Fluorspar	tonnes	24 009	24 637	24 915	3 440	8 626
Gold						
Metal	kilograms	769	1 570	8 813	3 047	3 055
Waste and scrap	kilograms	12 931	14 953	45 718	19 140	60 440
Graphite	tonnes	4 787	3 485	5 301	6 233	2 554
Gypsum						
Crude	tonnes	19 253	38 983	70 972	76 119	83 819
Calcined	tonnes	37 637	43 282	45 167	75 278	53 954
Iodine	kilograms	28 400	31 600	32 300	25 200	31 900
Iron ore	tonnes	6 576 885	7 984 718	(a) 6 578 116	(a) 6 799 756	(a) 4 803 009

Czech Republic

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	88 549	150 032	108 715	111 872	47 666
Sponge and powder	tonnes	6 130	10 136	20 580	24 791	10 006
Ferro-chrome	tonnes	16 772	20 492	34 123	26 043	14 715
Ferro-silico-magnesium	tonnes	941	1 236	6 297	5 778	3 192
Ferro-manganese	tonnes	30 921	32 355	35 500	33 704	23 630
Ferro-silico-manganese	tonnes	53 258	57 857	52 153	48 962	34 418
Ferro-molybdenum	tonnes	1 744	1 889	2 025	2 049	949
Ferro-silicon	tonnes	34 114	36 361	41 482	37 230	23 936
Ferro-vanadium	tonnes	564	429	440	578	299
Other ferro-alloys	tonnes	10 018	9 080	1 697	1 644	836
Silicon metal	tonnes	2 589	4 986	6 584	5 826	4 408
Ingots, blooms, billets	tonnes	484 450	409 753	445 181	525 598	220 524
Scrap	tonnes	392 135	560 676	521 779	502 256	377 942
Kaolin	tonnes	16 895	22 962	23 461	20 662	13 228
Lead						
Unwrought	tonnes	69 135	67 850	66 060	59 318	65 896
Scrap	tonnes	4 147	4 411	6 519	4 672	4 150
Lithium						
Carbonate	tonnes	71	118	146	64	35
Magnesite and magnesia						
Magnesite	tonnes	6 860	5 320	6 527	4 193	3 460
Magnesia	tonnes	43 277	51 674	52 330	54 246	38 048
Manganese						
Ores and concentrates	tonnes	13 820	14 335	16 079	15 715	16 063
Metal	tonnes	619	674	757	2 542	2 219
Mercury	kilograms	1 100	4 000	3 200	3 700	4 400
Mica	tonnes	819	1 629	2 262	1 958	981
Molybdenum						
Ores and concentrates	tonnes	189	139	213	284	1 040
Metal	tonnes	89	175	130	560	127
Nickel						
Scrap	tonnes	69	152	294	473	1 468
Unwrought (b)	tonnes	2 520	3 531	4 429	3 728	2 179
Oxides	tonnes	785	844	919	838	319
Crude petroleum	tonnes	7 674 771	7 752 356	7 179 766	8 141 759	7 451 765
Natural gas	tonnes	6 733 431	5 489 325	5 478 515	6 264 909	7 080 247
Phosphate rock	tonnes	22 633	28 141	33 954	20 928	543
Platinum metals						
Platinum and platinum metals	kilograms	1 289	4 599	576	90 290	82 291
Waste and scrap	kilograms	55	86	913	4 300	700
Potash						
Chloride	tonnes	97 723	43 238	32 745	28 052	36 125
Other potassic fertilisers	tonnes	3 783	3 475	4 215	5 025	2 430
Rare earths						
Rare earth compounds	tonnes	198	227	228	155	124
Ferro-cerium and other pyrophoric alloys	tonnes	3	6	4	5	5
Salt	tonnes	891 667	1 151 331	567 960	610 149	711 374
Sillimanite minerals	tonnes	3 733	6 765	5 601	6 686	4 717
Silver						
Ores and concentrates	kilograms	...	...	...	...	5 700
Metal	kilograms	103 373	602 527	647 818	1 557 076	163 316
Sulphur and pyrites						
Pyrites	tonnes	134	223	281	1 576	299
Sulphur	tonnes	16 983	40 147	55 196	43 473	20 986
Sulphur, sublimed and precipitated	tonnes	89 595	70 555	57 410	65 242	71 033
Talc	tonnes	9 986	10 855	12 993	11 007	9 312
Tantalum and niobium						
Tantalum	tonnes	141	164	206	253	141
Tin						
Unwrought (b)	tonnes	634	665	616	802	937
Titanium						
Titanium minerals	tonnes	80 407	149 925	179 323	193 858	140 394
Metal	tonnes	1 143	1 155	1 086	1 122	918
Oxides	tonnes	8 008	8 734	10 529	8 765	7 248

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Tungsten						
Metal	tonnes	173	197	837	206	4 184
Vanadium						
Pentoxide	tonnes	3 831	4 858	3 210	5 135	2 702
Zinc						
Unwrought	tonnes	28 263	33 732	35 666	36 733	24 660
Unwrought alloys	tonnes	8 039	11 113	11 992	11 344	7 155
Scrap	tonnes	565	334	4 008	2 792	2 434
Zirconium						
Concentrates	tonnes	655	1 498	1 482	751	268
Metal	tonnes	60	86	78	101	45

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Denmark

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	69 500 000	72 508 000	68 255 000	59 937 000	46 932 000
Crushed rock	tonnes	378 000	372 000	410 000	384 000	312 000
Bentonite and fuller's earth						
Bentonite	tonnes	18 515	19 211	20 093	22 458	24 040
Cement						
Cement clinker	tonnes	42 691	5 499	21 209	16 092	122
Cement, finished	tonnes	2 880 554	2 937 132	2 871 402	2 538 822	1 578 614
Diatomite						
Moler (a)	tonnes	209 000	196 000	201 000	210 000	168 000
Crude petroleum	tonnes	18 822 000	17 068 000	15 552 000	14 338 000	13 045 000
Natural gas	million m ³	9 909	9 861	8 760	9 564	7 590
Salt	tonnes	* 600 000	* 600 000	* 600 000	* 600 000	* 600 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	4 223	4 142	3 896	3 467	4 200

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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	787 389	973 497	1 194 349	846 490	955 036
Aluminium and bauxite						
Alumina	tonnes	3 579	3 470	5 471	5 300	4 002
Unwrought alloys	tonnes	23 509	31 768	36 831	32 499	7 505
Scrap	tonnes	70 828	62 734	50 164	56 727	70 649
Bentonite and fuller's earth						
Bentonite	tonnes	17 066	19 214	19 495	15 734	13 004
Cement						
Cement clinkers	tonnes	54 542	11 981	9 673	7 287	7 784
Portland cement	tonnes	1 235 477	1 290 816	1 094 730	969 666	568 656
Other cement	tonnes	13 118	14 153	16 222	25 482	20 751
Chromium						
Metal	tonnes	703	855	549	1 262	659
Coal						
Hard coal (a)	tonnes	86 739	54 338	75 866	27 070	1 973 198
Copper						
Scrap	tonnes	27 227	31 076	31 569	33 421	31 711
Diatomite (b)	tonnes	* 69 300	* 71 500	* 63 600	* 67 800	* 57 520
Gold						
Metal	kilograms	1 064	1 253	366	397	100
Waste and scrap	kilograms	120	3 531	600	600	500
Gypsum						
Crude	tonnes	111 720	165 656	197 920	141 124	8 440
Calcined	tonnes	25 474	356 443	1 740	4 173	1 455
Iodine	kilograms	3 058	6 301	100	1	1 500
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	23 295	14 611	64	70	85
Other ferro-alloys	tonnes	139	238	701	585	330
Ingots, blooms, billets	tonnes	1 203	2 199	12 820	16 775	13 287
Scrap	tonnes	1 402 982	1 414 060	1 263 987	1 372 424	1 335 754
Kaolin	tonnes	637	443	351	486	352
Lead						
Unwrought	tonnes	1 312	1 071	721	78	615
Scrap	tonnes	3 067	2 954	1 685	1 159	4 057

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Magnesite and magnesia	tonnes	232	307	451	461	518
Nickel						
Scrap	tonnes	676	585	482	642	1 063
Crude petroleum	tonnes	13 567 566	11 456 257	9 493 573	8 593 198	8 520 980
Natural gas	tonnes	3 466 835	3 818 822	3 786 580	4 023 305	2 906 339
Platinum metals						
Platinum and platinum metals	kilograms	1 435	32	48	1	7 000
Potash						
Chloride	tonnes	1 052	29 533	127	45	59
Rare earths						
Metals	tonnes	0	0	4	2	—
Salt	tonnes	355 887	115 980	261 895	265 036	333 383
Silver						
Metal	kilograms	14 748	24 299	43 775	18 782	37 200
Tin						
Scrap	tonnes	68	124	90	28	37
Titanium						
Metal	tonnes	184	146	162	152	102
Oxides	tonnes	1 136	1 134	1 121	460	442
Tungsten						
Metal	tonnes	5	86	112	121	91
Zinc						
Scrap	tonnes	3 538	3 628	2 388	2 028	2 622

Note(s)

(a) Including anthracite

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	2 804 325	3 151 321	3 077 714	3 346 209	2 932 586
Aluminium and bauxite						
Bauxite	tonnes	9 148	9 025	6 572	7 317	8 108
Alumina	tonnes	21 979	28 709	25 643	27 582	21 968
Unwrought (a)	tonnes	70 617	79 573	86 389	85 420	61 259
Scrap	tonnes	63 678	64 803	66 038	70 726	5 321
Barytes	tonnes	28 788	58 303	38 096	22 324	27 656
Bentonite and fuller's earth						
Bentonite	tonnes	47 386	49 695	43 555	34 012	35 089
Fuller's earth	tonnes	137	921	...	...	...
Bromine	kilograms	...	...	...	...	...
Cement						
Cement clinkers	tonnes	31 634	46 600	35 555	33 825	31 847
Portland cement	tonnes	230 842	274 151	243 348	289 307	208 467
Other cement	tonnes	36 753	54 194	52 662	38 687	46 117
Chromium						
Ores and concentrates	tonnes	837	774	945	974	384
Coal						
Anthracite	tonnes	52 143	85 883	47 233	45 282	12 593
Other coal	tonnes	5 881 938	9 234 248	8 034 596	7 412 557	6 423 923
Briquettes	tonnes	15 865	511	194	1 000	455
Copper						
Unwrought	tonnes	1 702	4 081	2 901	2 818	1 413
Scrap	tonnes	13 827	14 646	9 187	11 235	10 388
Diamond						
Unsorted	carats	£597 000	£686 000	£928 000	£1 168 000	£40 000
Gem, cut	carats	£6 506 000	£7 252 000	£8 473 000	£7 424 000	£4 680 000
Industrial	carats	£81 000	£184 000	£388 000	£104 000	£223 000
Dust	carats	696 038	769 511	1 056 203	791 502	10 000 000
Diatomite	tonnes	6 561	4 974	4 244	5 849	3 347
Feldspar	tonnes	3 868	2 590	3 145	2 678	2 666
Fluorspar	tonnes	15 124	12 635	8 218	17 003	33 149

Denmark

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Gold						
Metal	kilograms	2 095	1 643	2 350	2 000	3 100
Graphite	tonnes	288	268	212	185	269
Gypsum						
Crude	tonnes	317 736	330 476	388 662	379 094	106 304
Calcined	tonnes	45 691	52 788	53 647	52 087	58 675
Iodine	kilograms	13 109	16 345	1 973 090	1 122 386	6 791
Iron ore						
Iron ore	tonnes	8 450	4 318	72 806	111 302	58 894
Burnt pyrites	tonnes	86 399	81 341	9 231	—	—
Iron, steel and ferro-alloys						
Pig iron	tonnes	12 720	18 128	18 349	14 064	10 299
Sponge and powder	tonnes	29 188	80 148	61 079	3 602	1 742
Ferro-silico-magnesium	tonnes	—	1 322	1 795	1 465	348
Ferro-silicon	tonnes	2 548	4 069	1 887	1 702	569
Other ferro-alloys	tonnes	1 345	1 771	595	1 080	217
Silicon metal	tonnes	659	1 586	741	263	65
Ingots, blooms, billets	tonnes	551 407	588 053	780 837	672 439	328 893
Scrap	tonnes	313 558	238 142	213 776	392 453	269 841
Kaolin	tonnes	14 117	19 572	35 288	47 525	37 738
Lead						
Unwrought	tonnes	2 135	2 322	1 033	192	107
Scrap	tonnes	2 288	2 209	2 228	1 984	2 583
Lithium						
Carbonate	tonnes	81	164	155	311	402
Magnesite and magnesia						
Magnesite	tonnes	2 002	444	512	456	2 680
Magnesia	tonnes	4 560	4 478	3 327	4 149	5 472
Manganese						
Ores and concentrates	tonnes	111	788	775	698	1 158
Metal	tonnes	157	161	317	233	136
Mercury	kilograms	2 901	129	300	400	100
Mica	tonnes	413	1 596	366	276	242
Molybdenum						
Oxides	tonnes	247	196	432	361	388
Nickel						
Scrap	tonnes	317	403	529	100	122
Crude petroleum	tonnes	2 666 384	2 576 191	2 136 643	2 240 240	3 320 486
Natural gas	tonnes	242 936	—	—	—	—
Platinum metals						
Platinum and platinum metals	kilograms	2 076	2 962	6 952	6 448	4 699
Potash						
Sulphate	tonnes	2 683	4 778	6 077	1 878	1 019
Chloride	tonnes	38 706	106 772	34 292	47 885	4 917
Other potassic fertilisers	tonnes	29 605	13 150	13 742	24 438	11 052
Rare earths						
Cerium compounds	tonnes	...	1	1	11	734
Other rare earth compounds	tonnes	16	41	30	10	36
Salt	tonnes	436 794	520 735	230 787	213 931	421 109
Sillimanite minerals	tonnes	2 909	3 023	3 377	2 482	2 598
Silver						
Metal	kilograms	18 173	26 104	62 049	51 992	1 873 817
Sulphur and pyrites						
Sulphur	tonnes	7 066	2 335	204	2 082	4 447
Talc	tonnes	14 103	13 299	10 830	12 055	8 035
Titanium						
Metal	tonnes	770	788	623	774	670
Oxides	tonnes	23 156	24 678	19 514	17 055	17 511
Tungsten						
Metal	tonnes	307	523	113	110	105
Zinc						
Unwrought	tonnes	9 855	11 494	9 931	12 591	6 063
Unwrought alloys	tonnes	1 457	1 320	1 345	910	771

Note(s)

(a) Including alloys

Estonia

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	3 459 760	4 209 080	6 531 740	3 635 700	3 911 980
Crushed rock	tonnes	6 828 600	8 298 400	8 855 800	7 945 900	6 034 500
Cement						
Cement, finished	tonnes	726 000	848 900	937 400	808 000	326 200
Cement clinker	tonnes	635 500	704 700	1 042 800	1 040 000	448 500
Lead, refined	tonnes	7 000	9 000	10 000	10 000	10 000
Crude petroleum (a)	tonnes	1 690 000	1 624 000	1 901 600	1 869 500	1 733 000

Note(s)

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

(a) From oil shale

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	522 792	563 697	573 530	701 067	503 048
Aluminium and bauxite						
Unwrought (a)	tonnes	2 414	3 013	8 083	27 839	8 357
Scrap	tonnes	10 686	8 263	10 379	19 895	6 958
Cement						
Cement clinkers	tonnes	97 442	87 638	325 263	426 384	395 641
Portland cement	tonnes	225 729	228 971	274 997	383 449	120 294
Other cement	tonnes	13	29	452	1 387	59
Coal						
Hard coal (b)	tonnes	9 054	3 164	2 035	...	20 296
Copper						
Scrap	tonnes	6 660	11 801	7 784	8 185	5 633
Iron, steel and ferro-alloys						
Pig iron	tonnes	(c)* 200	...	(c)* 1 360	1	(f)* 1
Ferro-alloys	tonnes	665	672	159	153	100
Ingots, blooms, billets	tonnes	...	425	5 985	1 392	3 159
Scrap	tonnes	440 622	592 372	572 216	650 099	384 299
Lead						
Unwrought	tonnes	7 774	6 054	10 091	10 473	8 861
Manganese						
Metal	tonnes	663	222	464	226	137
Mercury	kilograms	3 400	—	—	—	—
Nickel						
Scrap	tonnes	34	713	1 260	840	89
Rare earths						
Metals	tonnes	3	1	1	1	1
Rare earth compounds	tonnes	2 319	6 819	3 183	2 916	2 679
Salt	tonnes	149	572	429	121	277
Silver						
Metal	kilograms	93	26	9	13	955
Tantalum and niobium						
Tantalum	tonnes	65	51	43	67	47
Tin						
Scrap	tonnes	125	17	71	88	124
Titanium						
Metal	tonnes	31	49	11	13	30
Oxides	tonnes	144	163	1 491	579	158

Estonia

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Zinc						
Scrap	tonnes	539	1 121	725	2 860	1 065

Note(s)

(a) Including alloys

(b) Including anthracite

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	933 376	932 688	929 218	988 981	1 006 376
Aluminium and bauxite						
Unwrought (a)	tonnes	1 686	7 021	3 035	26 545	5 956
Scrap	tonnes	453	1 338	808	485	535
Bentonite and fuller's earth						
Bentonite	tonnes	2 014	2 223	1 995	1 506	1 631
Cement						
Cement clinkers	tonnes	21 219	44 059	31 127	25 438	—
Portland cement	tonnes	3 311	1 833	2 536	4 613	30 424
Coal						
Hard coal (b)	tonnes	53 647	95 079	175 599	123 194	30 413
Gold						
Metal	kilograms	234	365	900	1 200	300
Gypsum						
Crude and calcined	tonnes	20 957	40 876	46 336	38 062	9 141
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	2 125	1 815	1 240	1 114	305
Scrap	tonnes	111 930	64 110	53 155	37 774	9 267
Kaolin	tonnes	1 058	1 090	3 214	3 902	1 588
Manganese						
Metal	tonnes	552	909	836	478	168
Natural gas	tonnes	155 659	154 926	726 823	717 831	477 844
Nickel						
Scrap	tonnes	125	562	803	129	—
Unwrought (a)	tonnes	548	1 378	350	34	15
Potash						
Chloride	tonnes	14 509	11 173	7 048	8 665	1
Rare earths						
Rare earth compounds	tonnes	4 352	6 804	4 721	4 469	4 125
Metals	tonnes	8	10	...	...	—
Salt	tonnes	58 269	78 483	72 445	72 149	73 931
Silver						
Metal	kilograms	133 123	10 100	3 100	5 800	2 900
Talc	tonnes	300	295	418	331	332
Titanium						
Metal	tonnes	294	74	393	97	50
Oxides	tonnes	1 367	2 193	2 548	2 106	1 349
Zinc						
Unwrought (a)	tonnes	9 129	7 253	4 362	7 676	1 595

Note(s)

(a) Including alloys

(b) Including anthracite

Finland

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	53 000 000	54 000 000	59 000 000	* 59 000 000	* 47 000 000
Crushed rock	tonnes	45 000 000	46 000 000	54 000 000	* 54 000 000	* 43 000 000
Cement						
Cement, finished (a)	tonnes	1 347 000	1 684 507	1 771 000	1 638 000	* 1 042 000
Chromium ores and concentrates	tonnes	572 000	549 000	556 000	614 000	247 000
Cobalt metal	tonnes	8 171	8 582	9 173	9 645	8 962
Cobalt, mine	tonnes (metal content)	* 100	* 100	* 120	* 100	* 27
Copper, mine	tonnes (metal content)	15 000	13 000	13 600	13 300	14 600
Copper, smelter	tonnes	157 933	164 306	118 911	142 154	110 479
Copper, refined	tonnes	132 126	137 961	109 870	131 249	105 549
Feldspar	tonnes	42 783	43 187	48 980	45 250	* 45 000
Gold, mine	kilograms (metal content)	3 747	5 292	4 621	4 148	* 1 785
Pig iron	tonnes	3 056 165	3 157 894	2 915 130	2 942 946	2 042 000
Crude steel	tonnes	4 738 446	5 053 714	4 430 726	4 416 792	3 078 000
Ferro-alloys						
Ferro-chrome	tonnes	234 881	243 350	241 760	233 550	123 310
Mercury	kilograms	34 200	22 820	45 195	33 120	6 210
Mica	tonnes	9 500	8 097	11 449	10 706	* 10 000
Nickel, mine	tonnes (metal content)	3 400	3 000	3 600	6 200	1 600
Nickel, smelter/refinery	tonnes	39 159	47 469	55 000	51 963	40 800
Phosphate rock	tonnes	822 987	857 922	830 989	780 000	660 405
Selenium metal	tonnes	66	70	52	65	66
Silver, mine	kilograms (metal content)	47 462	50 843	44 895	69 906	69 600
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	184 400	199 700	194 400	226 000	153 600
Recovered (b)	tonnes (sulphur content)	304 751	325 793	* 326 000	331 000	273 600
Recovered (c)	tonnes (sulphur content)	70 000	70 000	125 000	117 000	127 000
Talc	tonnes	508 169	547 146	535 882	527 686	* 500 000
Wollastonite	tonnes	15 950	16 200	16 364	15 600	* 16 000
Zinc, mine	tonnes (metal content)	40 500	35 700	38 900	27 800	30 233
Slab Zinc	tonnes	281 904	282 238	305 543	297 722	295 049

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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	580 815	735 655	837 957	850 685	645 609
Aluminium and bauxite						
Unwrought alloys	tonnes	14 107	11 411	12 924	14 239	8 939
Scrap	tonnes	21 053	25 921	38 364	37 345	34 910
Bentonite and fuller's earth						
Bentonite	tonnes	155	232	115	42	803
Cement						
Portland cement	tonnes	3 367	647	982	2 618	1 275
Other cement	tonnes	...	...	...	...	...
Chromium						
Ores and concentrates	tonnes	841	1 570	2 492	3 041	2 050
Metal	tonnes	1	5	—	1 034	1 577
Cobalt						
Metal (a)	tonnes	* 5 800	* 5 700	* 5 700	* 5 700	* 4 500
Oxides (a)	tonnes	* 1 700	* 2 200	* 2 400	* 2 600	* 3 100

Finland

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Copper						
Unwrought, unrefined	tonnes	29 685	34 962	10 490	27 525	37 084
Unwrought, refined	tonnes	40 170	55 239	32 956	67 908	40 864
Unwrought alloys	tonnes	746	1 533	587	423	275
Scrap	tonnes	30 577	31 182	32 872	32 585	32 762
Feldspar	tonnes	37 386	41 437	37 392	36 482	26 613
Gold						
Waste and scrap	kilograms	778	886	200	466	539
Graphite	tonnes	0	2	46 162	0	5
Iron ore						
Burnt pyrites	tonnes	59 433	67 503	146 844	396 064	244 225
Iron, steel and ferro-alloys						
Pig iron	tonnes	8 040	3 045	0	14 070	11 317
Ferro-chrome	tonnes	39 341	37 663	100 022	37 709	61 319
Ingots, blooms, billets	tonnes	436 083	284 313	185 229	281 325	253 440
Scrap	tonnes	286 494	220 124	253 732	308 047	276 010
Kaolin	tonnes	7 378	8 373	10 597	8 587	13 832
Lead						
Scrap	tonnes	3 589	2 421	605	588	357
Manganese						
Metal	tonnes	...	0	31	98	341
Mercury	kilograms	32 090	24 859	45 600	35 000	6 211
Mica						
Ground	tonnes	5 745	6 603	8 956	7 138	6 125
Natural gas	tonnes	328	—	1 218	1 420	4 557
Nickel						
Ores and concentrates	tonnes	...	—	—	14 069	—
Unwrought	tonnes	30 628	37 747	43 427	40 108	37 202
Scrap	tonnes	28	47	441	27	1 511
Oxides (a)	tonnes	* 300	* 600	* 600	* 500	* 200
Phosphate rock	tonnes	996	1 141	6 942	3 248	3 796
Platinum metals						
Platinum and platinum metals	kilograms	5	23	19	30	34 126
Waste and scrap	kilograms	75 669	713	463	218	267
Potash						
Sulphate	tonnes	33 484	(a)* 7 900	49 485	17 181	45 818
Chloride	tonnes	38 915	65 003	50 342	50 822	26
Rare earths						
Rare earth compounds	tonnes	2	1	1	103	0
Metals	tonnes	...	...	104	...	—
Salt	tonnes	384	531	424	336	336
Silver						
Ores and concentrates	kilograms	416 650	262 669	700	38	—
Metal	kilograms	6 764	6 041	3 400	3 400	1 680
Sulphur and pyrites						
Pyrites (a)	tonnes	* 100 000	* 73 000	* 90 000	* 386 000	* 88 000
Sulphur	tonnes	3 135	3 674	3 513	2 521	35 701
Talc (a)	tonnes	* 278 000	* 246 000	* 284 000	* 320 000	* 174 000
Tin						
Unwrought (b)	tonnes	66	95	56	77	36
Scrap	tonnes	58	89	201	193	124
Titanium						
Metal	tonnes	44	35	30	11	14
Oxides (a)	tonnes	* 104 000	* 103 000	* 103 000	* 106 000	* 86 000
Tungsten						
Metal	tonnes	77	80	113	360	291
Zinc						
Unwrought (b)	tonnes	235 403	233 231	260 434	257 411	268 893
Scrap	tonnes	2 116	1 650	1 274	964	1 012

Note(s)

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

(b) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	43 488	254 665	326 347	280 600	330 108
Aluminium and bauxite						
Bauxite	tonnes	3 661	6 366	4 909	10 461	1 584
Alumina	tonnes	2 659	2 327	3 296	2 350	1 733
Alumina hydrate	tonnes	28 300	31 024	37 163	22 243	20 614
Unwrought	tonnes	4 057	1 145	1 213	1 332	1 204
Unwrought alloys	tonnes	40 510	39 755	49 299	41 635	29 303
Scrap	tonnes	15 537	14 906	19 051	21 978	10 998
Antimony						
Oxide	tonnes	199	256	281	160	101
Barytes	tonnes	3 931	4 498	5 018	4 735	2 573
Bentonite and fuller's earth						
Bentonite	tonnes	26 395	32 520	37 741	31 445	19 429
Fuller's earth	tonnes	201	109	...	...	...
Bromine	kilograms	71 000	36 158	100	146 800	242 982
Cement						
Cement clinkers	tonnes	17 594	95 730	314 436	236 439	536
Portland cement	tonnes	383 260	380 296	341 748	281 924	320 084
Other cement	tonnes	13 211	12 176	16 006	15 911	12 232
Chromium						
Ores and concentrates	tonnes	6 962	8 388	9 324	8 866	4 521
Metal	tonnes	258	575	282	327	105
Coal						
Hard coal (a)	tonnes	4 724 392	6 683 990	6 669 717	5 671 385	5 937 153
Cobalt						
Ore	tonnes	54 794	31 186	26 449	26 500	15 146
Metal	tonnes	13 611	26 928	27 590	36 405	24 002
Oxides	tonnes	336	186	346	167	46
Copper						
Ores and concentrates	tonnes	504 658	544 149	448 119	536 584	352 370
Unwrought	tonnes	35	21	2 777	2 490	16 298
Unwrought alloys	tonnes	3 229	3 996	4 178	3 542	2 415
Scrap	tonnes	2 423	1 259	2 644	4 146	7 349
Diamond						
Gem, cut	carats	£3 082 000	£3 264 000	£3 004 000	£3 698 000	£3 133 000
Dust	carats	450 000	620 000	682 850	625 200	273 415
Diatomite	tonnes	2 700	2 339	3 510	3 344	3 015
Feldspar	tonnes	380	796	1 023	699	851
Fluorspar	tonnes	16 597	15 011	15 064	12 366	23 178
Gold						
Waste and scrap	kilograms	22 981	4	1	—	35
Gypsum						
Crude	tonnes	341 680	310 245	423 355	408 509	146 141
Calcined	tonnes	7 517	9 958	8 588	6 598	5 664
Iodine	kilograms	6 209	2 066	3 400	3 400	2 901
Iron ore	tonnes	4 215 633	3 481 019	3 156 096	3 121 303	2 204 018
Iron, steel and ferro-alloys						
Pig iron	tonnes	27 160	45 364	53 901	42 681	18 097
Sponge and powder	tonnes	969	779 146	880 575	942 664	493 087
Ferro-chrome	tonnes	7 404	17 926	9 650	11 182	5 094
Ferro-manganese	tonnes	14 728	14 828	18 138	15 709	5 985
Ferro-silico-manganese	tonnes	38 375	38 440	34 994	34 139	20 642
Ferro-molybdenum	tonnes	2 293	1 948	1 892	1 730	584
Ferro-nickel	tonnes	47 531	53 741	54 106	50 294	17 098
Ferro-niobium	tonnes	478	493	570	757	318
Ferro-phosphorus	tonnes	489	550	560	380	285
Ferro-silicon	tonnes	25 723	36 659	31 814	29 740	21 437
Ferro-titanium and ferro-silico-titanium	tonnes	1 912	1 558	1 707	1 857	710
Other ferro-alloys	tonnes	4 849	4 252	4 300	4 193	1 428
Silicon metal	tonnes	1 306	1 402	1 318	1 638	548
Ingots, blooms, billets	tonnes	51 678	5 138	7 649	11 114	30 206
Scrap	tonnes	756 267	1 013 675	687 887	596 792	467 642
Kaolin	tonnes	1 144 335	1 261 699	1 155 041	1 147 687	708 210
Lead						
Unwrought	tonnes	2 854	1 571	2 283	3 195	2 346
Lithium						
Carbonate	tonnes	77	85	73	84	41

Finland

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Magnesite and magnesite						
Magnesia	tonnes	16 476	9 540	15 989	8 692	6 439
Manganese						
Ores and concentrates	tonnes	28 335	10 433	27 251	24 926	12 224
Metal	tonnes	753	2 182	2 379	2 649	912
Mercury	kilograms	28	38	200	209	2 136
Mica	tonnes	2 998	2 874	4 098	4 383	1 988
Molybdenum						
Ores and concentrates	tonnes	28 469	9 270	5 789	3 498	40
Nickel						
Mattes, sinters etc	tonnes	50 194	45 851	50 856	33 247	22 715
Ores and concentrates	tonnes	104 983	190 233	256 932	290 914	185 202
Unwrought (b)	tonnes	23 801	27 939	15 457	18 201	9 984
Scrap	tonnes	860	757	299	481	149
Crude petroleum	tonnes	10 603 534	12 176 669	12 221 330	11 908 304	11 516 562
Natural gas	tonnes	3 068 411	3 312 381	3 172 117	3 269 068	—
Phosphate rock	tonnes	56 117	86 734	113 286	118 749	—
Platinum metals						
Platinum and platinum metals	kilograms	495	309	198	365	284
Potash						
Chloride	tonnes	(c) 163 600	(c) 161 400	148 400	120 158	—
Rare earths						
Cerium compounds	tonnes	83	117	92	101	57
Other rare earth compounds	tonnes	13	21	5	7	9
Salt	tonnes	438 346	401 961	409 761	397 033	417 495
Silver						
Metal	kilograms	70 623	64 504	55 400	44 800	498 859
Sulphur and pyrites						
Sulphur	tonnes	310	11 925	415	9 073	1 673
Talc	tonnes	866	757	663	503	525
Tin						
Unwrought (b)	tonnes	178	173	166	184	94
Titanium						
Titanium minerals	tonnes	5 080	34 403	20 578	26 200	8 794
Oxides	tonnes	14 380	14 788	15 838	14 256	12 524
Tungsten						
Metal	tonnes	121	21	130	296	205
Zinc						
Ores and concentrates	tonnes	499 024	520 081	555 569	582 049	532 036
Unwrought (b)	tonnes	1 314	1 443	4 513	4 242	3 705

Note(s)

(a) Including anthracite

(b) Including alloys

(c) K₂O content

France

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	168 640 000	174 360 000	180 450 000	171 610 000	146 290 000
Crushed rock	tonnes	222 780 000	233 090 000	242 950 000	236 770 000	209 440 000
Bauxite	tonnes	175 000	160 000	* 160 000	* 160 000	* 160 000
Alumina	tonnes (Al ₂ O ₃ content)	* 600 000	* 636 000	* 600 000	* 572 000	* 317 000
Primary aluminium	tonnes	440 000	442 879	430 159	389 000	345 000
Barytes	tonnes	* 81 000	* 40 000	—	—	—
Cadmium	tonnes	* 100	* 90	* 50	* 50	* 50
Cement						
Cement clinker	tonnes	17 332 000	17 731 000	18 046 000	16 885 000	14 568 000
Cement, finished	tonnes	21 277 000	22 268 000	22 268 000	21 443 000	18 300 000
Diatomite	tonnes	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Feldspar	tonnes	651 000	* 650 000	* 650 000	* 650 000	* 550 000
Fluorspar	tonnes	53 000	* 40 000	—	—	—
Gypsum (a)	tonnes	4 902 498	* 4 800 000	* 4 800 000	2 339 380	3 351 339
Pig iron	tonnes	12 595 584	12 873 900	12 425 703	11 371 879	8 104 318
Crude steel	tonnes	19 480 777	19 852 125	19 249 862	17 879 161	12 840 108
Ferro-alloys						
Spiegeleisen and ferro-manganese	tonnes	109 111	139 533	98 066	* 100 000	* 100 000
Ferro-silico-manganese	tonnes	52 300	63 300	* 65 000	* 55 000	* 55 000
Ferro-silicon	tonnes	* 67 000	* 67 000	* 71 000	* 22 000	* 20 000
Silicon metal	tonnes	* 100 000	* 100 000	* 120 000	* 100 000	* 100 000
Kaolin	tonnes	319 464	* 300 000	(b) 350 742	(b) 335 520	(b) 227 342
Lead, refined	tonnes	* 90 000	* 88 000	* 88 000	82 100	62 000
Mica (c)	tonnes	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Nickel, smelter/refinery	tonnes	12 684	13 700	14 800	13 700	13 900
Crude petroleum	tonnes	1 179 000	1 100 000	1 013 000	975 000	899 000
Natural gas	million m ³	1 089	1 167	1 023	925	877
Salt						
Rock salt	tonnes	494 000	...	...	...	...
Brine salt	tonnes	1 468 000	...	...	...	...
Salt in brine	tonnes	4 750 780	(d) 9 371 000	(d) 6 139 840	(d)* 6 000 000	(d)* 6 000 000
Sea salt	tonnes	1 026 000	...	...	...	...
Sillimanite minerals	tonnes	* 65 000	* 65 000	* 65 000	* 65 000	* 65 000
Andalusite						
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	622 345	616 234	605 820	* 590 000	* 590 000
Recovered (f)	tonnes (sulphur content)	127 000	75 000	62 000	64 000	65 000
Talc	tonnes	416 000	* 420 000	* 420 000	* 420 000	* 420 000
Slab Zinc	tonnes	209 000	120 000	129 000	118 000	161 000

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 domestic material

- (a) Including anhydrite
(b) Sales
(c) Including mica recovered from mica schists and/or kaolin beneficiation
(d) Salt; all forms
(e) From petroleum refining and/or Natural gas
(f) Other

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	8 492 936	8 928 358	8 383 027	8 565 175	7 586 323
Aluminium and bauxite						
Bauxite	tonnes	5 195	46 042	26 661	12 295	9 296
Unwrought	tonnes	77 097	65 943	45 503	46 364	91 682
Unwrought alloys	tonnes	95 700	148 253	136 803	139 176	125 580
Alumina	tonnes	255 392	224 866	276 207	319 388	178 570
Alumina hydrate	tonnes	139 694	168 250	146 531	130 881	100 293
Scrap	tonnes	314 243	345 107	380 708	344 436	345 372
Antimony						
Metal	tonnes	186	53	19	44	34
Oxide	tonnes	5 177	4 964	6 109	6 261	6 788
Arsenic						
Metallic arsenic	tonnes	8	15	3	5	9
Barytes (a)	tonnes	* 57 700	* 36 300	* 37 100	* 10 000	* 11 500
Bentonite and fuller's earth						
Bentonite	tonnes	9 243	9 788	13 454	12 231	9 211
Bismuth						
Metal	tonnes	39	24	52	74	6
Cadmium						
Metal	tonnes	533	798	815	890	1 022
Cement						
Cement clinkers	tonnes	310 228	325 352	325 897	260 529	170 883
Portland cement	tonnes	792 192	683 110	590 684	578 230	621 568
Other cement	tonnes	102 222	113 145	13 999	10 056	—
Chromium						
Ores and concentrates	tonnes	2 340	2 013	2 391	4 694	1 935
Metal	tonnes	8 074	6 457	7 225	7 844	4 767
Coal						
Anthracite	tonnes	14 913	10 442	13 161	57 436	5 272
Other coal	tonnes	68 197	128 523	200 682	128 614	91 266
Cobalt						
Metal	tonnes	699	709	1 006	859	706
Oxides	tonnes	57	68	91	28	50
Copper						
Matte and cement	tonnes	31	79	331	...	720
Unwrought	tonnes	48 050	47 839	67 765	55 405	60 428
Unwrought alloys	tonnes	9 851	9 680	13 140	13 049	9 455
Scrap	tonnes	262 874	290 528	284 890	266 930	235 277
Diamond						
Unsorted	carats	14 853	40 105	22 863	9 386	8 723
Gem	carats	98 712	164 433	227 372	293 420	394 845
Dust	carats	1 273 515	1 069 100	430 000	838 620	45 000
Diatomite	tonnes	25 379	24 866	29 607	23 239	21 713
Feldspar	tonnes	255 836	224 062	261 112	244 785	182 575
Fluorspar	tonnes	6 821	28	3 770	58	41
Gold						
Metal	kilograms	20 053	24 302	20 229	22 247	22 448
Waste and scrap	kilograms	29 600	29 600	29 300	50 700	34 094
Graphite	tonnes	225	85	163	269	226
Gypsum						
Crude	tonnes	250 845	321 789	414 428	381 841	267 315
Calcined	tonnes	350 955	349 703	356 716	338 682	282 254
Iodine	kilograms	40 900	51 300	91 100	100 500	101 909
Iron ore	tonnes	107 042	76 097	69 376	57 720	124 492

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	350	113 729	89 768	88 462	151 699
Sponge and powder	tonnes	6 465	13 059	17 948	14 698	5 261
Ferro-chrome	tonnes	857	875	1 217	2 098	2 217
Ferro-silico-magnesium	tonnes	6 829	2 165	16 377	28 255	10 787
Ferro-manganese	tonnes	7 181	7 483	8 049	2 457	2 882
Ferro-silico-manganese	tonnes	76 021	53 278	41 110	42 260	41 324
Ferro-molybdenum	tonnes	547	673	481	374	379
Ferro-niobium	tonnes	240	596	948	984	261
Ferro-silicon	tonnes	69 551	63 432	50 334	73 824	51 676
Ferro-titanium and ferro-silico-titanium	tonnes	1 542	1 992	2 292	1 493	844
Other ferro-alloys	tonnes	27 432	22 699	357	150	10 612
Ingots, blooms, billets	tonnes	3 914 427	3 071 836	2 650 976	2 830 986	1 814 051
Scrap	tonnes	4 955 474	6 019 890	6 210 854	6 028 712	5 402 426
Kaolin	tonnes	421 927	968 538	412 284	319 301	268 674
Lead						
Unwrought	tonnes	6 920	25 933	14 936	17 630	14 554
Scrap	tonnes	24 683	21 854	29 544	15 888	20 815
Lithium						
Carbonate	tonnes	462	12	2	3	1
Magnesite and magnesia						
Magnesite	tonnes	230	241	373	310	576
Magnesia	tonnes	45 661	47 832	48 852	57 342	35 523
Manganese						
Ores and concentrates (b)	tonnes	139 723	303 881	333 747	321 638	138 787
Metal	tonnes	324	415	327	488	631
Mercury	kilograms	15 400	27 300	9 100	1 700	718
Mica						
Ground	tonnes	13 406	12 794	13 490	13 881	10 758
Waste	tonnes	39	20	422	...	...
Molybdenum						
Ores and concentrates	tonnes	365	512	485	55	75
Nickel						
Unwrought	tonnes	10 148	11 761	12 308	10 754	12 095
Unwrought alloys	tonnes	1 762	999	1 475	2 475	1 377
Scrap	tonnes	6 373	7 826	7 578	7 558	11 435
Crude petroleum	tonnes	20 374	2 675	190	65	1 689
Phosphate rock	tonnes	4 463	10 147	15 919	96 127	—
Natural gas	tonnes	9 107 475	11 501 866	10 247 611	22 087 224	3 469 724
Platinum metals						
Platinum	kilograms	3 324	5 283	4 758	2 033	1 140
Platinum metals	kilograms	4 075	3 565	2 800	2 120	1 396
Waste and scrap	kilograms	184 400	383 300	190 100	282 400	609 699
Potash						
Sulphate	tonnes	54 235	32 887	33 446	34 777	18 248
Chloride	tonnes	6 376	3 185	8 166	11 416	9 858
Other potassic fertilisers	tonnes	841	221	278	327	414
Rare earths						
Rare earth compounds	tonnes	2 007	2 185	2 545	1 854	1 244
Ferro-cerium and other pyrophoric alloys	tonnes	32	85	133	—	0
Metals	tonnes	7	24	11	11	3
Salt	tonnes	407 255	254 487	363 438	231 953	277 617
Sillimanite minerals	tonnes	55 052	59 002	66 776	66 242	38 494
Silver						
Ores and concentrates	kilograms	...	...	26 500	51 100	1 597 157
Metal	kilograms	252 300	228 673	208 832	215 148	169 806
Sulphur and pyrites						
Sulphur	tonnes	361 594	294 003	59 934	246 005	313 229
Sulphur, sublimed and precipitated	tonnes	642	619	680	2 843	445
Talc	tonnes	279 659	273 706	276 014	269 771	224 419
Tantalum and niobium						
Tantalum	tonnes	101	9	21	18	37
Tin						
Unwrought	tonnes	324	368	552	441	402
Unwrought alloys	tonnes	1 020	1 010	884	236	140
Scrap	tonnes	478	893	590	654	282

France

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Titanium						
Titanium minerals	tonnes	62	116	2 242	93	150
Metal	tonnes	5 891	5 722	5 112	5 391	4 523
Oxides	tonnes	157 543	167 807	171 337	148 573	113 798
Tungsten						
Metal	tonnes	574	617	1 148	676	398
Carbide	tonnes	265	343	431	354	261
Vanadium						
Metal	tonnes	25	63	...	...	...
Zinc						
Ores and concentrates	tonnes	39 463	47 516	51 781	78 398	39 350
Unwrought	tonnes	80 472	31 960	29 305	31 601	64 773
Unwrought alloys	tonnes	33 940	12 205	7 238	5 073	9 362
Scrap	tonnes	63 571	71 224	56 200	43 770	45 986
Zirconium						
Concentrates	tonnes	1 058	2 316	1 832	1 440	1 243

Note(s)

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

(b) Including manganiferous iron ore

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	10 264 292	12 064 403	11 381 954	11 214 300	10 907 837
Aluminium and bauxite						
Bauxite	tonnes	1 799 671	1 664 642	2 001 899	1 788 358	1 024 569
Alumina	tonnes	655 246	667 146	710 029	722 371	849 798
Alumina hydrate	tonnes	41 682	45 085	46 584	51 289	46 113
Unwrought	tonnes	150 798	198 042	147 693	113 771	87 130
Unwrought alloys	tonnes	366 369	394 929	449 505	396 382	311 287
Scrap	tonnes	135 611	208 142	191 897	197 876	216 872
Antimony						
Metal	tonnes	7 766	8 919	8 568	9 078	7 682
Oxide	tonnes	2 243	2 092	3 315	1 923	1 277
Arsenic						
Metallic arsenic	tonnes	21	20	19	8	4
Asbestos						
Unmanufactured	tonnes	5	52	169	120	34
Barytes	tonnes	31 965	24 471	40 760	34 166	26 227
Bentonite and fuller's earth						
Bentonite	tonnes	163 999	220 996	243 350	198 787	158 715
Fuller's earth	tonnes	18 445	23 522	...	...	...
Bismuth						
Metal	tonnes	1 029	547	382	219	102
Bromine	kilograms	13 989 000	13 971 600	12 146 400	12 428 800	11 720 470
Cadmium						
Metal	tonnes	2 114	527	771	645	455
Oxide	tonnes	584	...	885	1 114	605
Cement						
Cement clinkers	tonnes	946 642	1 010 056	1 739 962	1 338 362	784 892
Portland cement	tonnes	1 271 478	1 556 864	1 793 027	1 940 065	1 744 423
Other cement	tonnes	984 597	1 120 524	1 223 442	1 185 083	980 685
Chromium						
Ores and concentrates	tonnes	18 980	23 031	20 156	26 952	10 813
Metal	tonnes	669	1 040	717	1 335	478
Coal						
Anthracite	tonnes	3 266 840	3 018 025	3 532 378	2 817 048	1 914 614
Other coal	tonnes	16 234 759	16 372 754	15 425 960	18 470 782	13 893 343
Lignite	tonnes	34 396	36 436	51 589	68 426	51 577
Briquettes	tonnes	116 845	147 381	175 350	154 140	151 863

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Cobalt						
Metal	tonnes	2 038	2 117	3 137	2 251	1 203
Oxides	tonnes	474	562	658	574	578
Copper						
Unwrought, unrefined	tonnes	248	275	328	125	59
Unwrought, refined	tonnes	516 881	506 721	431 897	435 330	265 707
Unwrought alloys	tonnes	10 132	11 029	14 389	8 987	7 980
Scrap	tonnes	75 464	97 462	90 195	81 036	50 753
Diamond						
Unsorted	carats	263 542	45 393	32 997	18 648	15 326
Gem, rough	carats	3 526	729	656	344	1 854
Gem, cut	carats	355 505	331 348	439 204	450 568	691 852
Industrial	carats	33 869	44 334	81 570	73 641	40 221
Dust	carats	10 013 030	10 037 456	8 984 745	13 938 146	9 314 960
Diatomite	tonnes	11 181	12 712	14 371	14 308	15 163
Feldspar	tonnes	85 460	54 106	20 974	59 857	43 981
Fluorspar	tonnes	21 526	34 972	48 758	21 256	13 124
Gold						
Metal	kilograms	28 834	23 605	23 567	20 071	16 877
Waste and scrap	kilograms	5 200	1 500	1 100	3 300	6 248
Graphite	tonnes	20 449	19 430	19 250	20 618	10 376
Gypsum						
Crude	tonnes	361 820	588 367	580 341	492 072	354 086
Calcined	tonnes	60 358	68 652	111 325	116 678	101 840
Iodine	kilograms	1 685 200	1 929 100	1 687 900	1 875 400	1 189 569
Iron ore						
Iron ore	tonnes	19 506 894	19 463 057	20 065 037	18 220 893	10 014 901
Burnt pyrites	tonnes	160	3 451	2 107	4 948	5 375
Iron, steel and ferro-alloys						
Pig iron	tonnes	249 585	183 755	195 466	202 077	115 722
Sponge and powder	tonnes	184 661	219 813	147 662	89 809	26 695
Ferro-chrome	tonnes	192 129	159 940	106 513	111 584	71 570
Ferro-silico-chrome	tonnes	122	677	8	69	20
Ferro-silico-magnesium	tonnes	25 046	18 536	26 899	26 786	12 067
Ferro-manganese	tonnes	55 239	57 240	63 487	69 464	33 948
Ferro-silico-manganese	tonnes	58 403	49 287	45 827	54 004	34 758
Ferro-molybdenum	tonnes	5 235	5 223	5 650	5 637	3 263
Ferro-nickel	tonnes	9 229	4 487	6 373	5 887	12 709
Ferro-niobium	tonnes	2 722	2 597	2 785	3 266	1 183
Ferro-phosphorus	tonnes	2 536	2 360	2 528	2 698	1 670
Ferro-silicon	tonnes	71 269	64 727	52 945	61 740	30 913
Ferro-titanium and ferro-silico-titanium	tonnes	6 448	9 037	10 009	8 293	2 647
Ferro-tungsten and ferro-silico-tungsten	tonnes	523	839	597	666	247
Ferro-vanadium	tonnes	1 351	1 396	1 432	1 575	819
Silicon metal	tonnes	25 257	21 813	19 659	23 885	15 243
Ingots, blooms, billets	tonnes	1 621 219	1 557 219	1 998 943	1 747 005	1 113 710
Scrap	tonnes	2 819 160	3 319 269	3 197 843	3 241 199	2 407 619
Kaolin	tonnes	338 848	320 425	311 060	263 449	200 203
Lead						
Unwrought	tonnes	109 426	121 930	118 384	103 535	42 187
Scrap	tonnes	33 818	32 705	34 169	22 490	13 579
Lithium						
Oxides	tonnes	482	369	314	256	362
Carbonate	tonnes	1 392	1 186	1 289	1 251	1 172
Magnesite and magnesia						
Magnesite	tonnes	3 427	2 509	2 355	2 378	1 209
Magnesia	tonnes	161 488	161 029	163 908	164 235	117 821
Manganese						
Ores and concentrates (a)	tonnes	615 884	611 043	678 369	876 961	193 684
Metal	tonnes	11 039	11 131	15 198	19 115	8 905
Mercury	kilograms	202 600	138 100	190 000	105 300	222 224
Mica						
Ground (b)	tonnes	1 534	2 674	2 532	3 175	2 214
Waste	tonnes	1 423	—	—	...	13

France

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Molybdenum						
Ores and concentrates	tonnes	1 783	1 896	1 511	1 933	769
Metal	tonnes	993	1 075	830	1 094	541
Oxides	tonnes	678	579	670	1 191	1 018
Nickel						
Mattes, sinters etc	tonnes	15 399	19 818	19 864	18 952	20 015
Ores and concentrates	tonnes	76	149	1 131	413	1 783
Unwrought	tonnes	22 656	26 631	25 752	23 368	10 909
Unwrought alloys	tonnes	6 104	5 500	7 702	9 386	5 364
Scrap	tonnes	1 554	2 393	1 341	2 166	1 265
Oxides	tonnes	228	297	542	560	310
Crude petroleum	tonnes	84 951 337	83 411 036	81 011 061	81 854 226	70 343 956
Natural gas	tonnes	48 574 413	62 023 544	75 216 254	79 101 617	32 440 935
Phosphate rock	tonnes	427 194	387 794	442 826	374 792	130 323
Platinum metals						
Platinum	kilograms	5 390	4 455	6 263	8 471	3 633
Platinum metals	kilograms	3 500	3 711	3 631	4 404	5 348
Waste and scrap	kilograms	55 600	370 600	114 300	241 200	359 138
Potash						
Fertiliser salts	tonnes	1 400	712	...	...	...
Sulphate	tonnes	70 702	33 195	50 088	53 124	12 477
Chloride	tonnes	1 492 127	777 056	900 560	837 119	242 713
Other potassic fertilisers	tonnes	29 488	11 432	16 601	18 484	7 287
Rare earths						
Cerium compounds	tonnes	7 105	9 723	8 831	9 116	6 112
Other rare earth compounds	tonnes	585	1 329	1 232	768	874
Ferro-cerium and other pyrophoric alloys	tonnes	5	3	2	3	26
Metals	tonnes	322	479	417	447	402
Salt	tonnes	1 110 898	1 024 789	592 976	578 882	918 448
Sillimanite minerals	tonnes	3 080	4 813	6 026	6 255	4 536
Silver						
Ores and concentrates	kilograms	1 955	16 300	39 800	21 300	4 279
Metal	kilograms	731 182	734 679	643 280	544 821	435 001
Sulphur and pyrites						
Pyrites	tonnes	4 521	2 533	160	173	159
Sulphur	tonnes	82 326	72 785	56 072	50 092	55 212
Sulphur, sublimed and precipitated	tonnes	5 809	2 439	797	5 861	403
Talc	tonnes	76 021	59 853	77 772	76 147	72 274
Tantalum and niobium						
Tantalum	tonnes	23	55	83	84	43
Tin						
Concentrates	tonnes	194	22	73	81	78
Unwrought	tonnes	7 307	8 159	7 689	6 506	5 869
Unwrought alloys	tonnes	1 080	931	409	554	207
Scrap	tonnes	217	182	432	588	259
Titanium						
Ilmenite	tonnes	60 205	83 499	60 739	58 423	17 766
Other titanium minerals	tonnes	86 552	78 849	71 292	12 531	11 964
Titanium slag	tonnes	111 137	107 092	91 602	80 726	85 776
Metal	tonnes	9 403	9 431	10 521	10 036	7 282
Oxides	tonnes	119 699	135 309	126 786	128 226	136 389
Tungsten						
Metal	tonnes	784	925	823	898	547
Carbide	tonnes	592	898	866	859	311
Vanadium						
Ores and concentrates	tonnes	21	—	...	—	—
Pentoxide	tonnes	556	533	656	674	371
Metal	tonnes	88	71	...	...	...
Zinc						
Ores and concentrates	tonnes	423 664	250 791	259 750	238 502	241 976
Unwrought	tonnes	143 476	170 263	166 110	164 172	128 674
Unwrought alloys	tonnes	45 566	47 309	44 124	45 480	27 000
Scrap	tonnes	6 996	7 833	7 247	3 694	4 604

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Zirconium						
Concentrates	tonnes	53 701	48 973	47 719	55 030	25 087
Metal	tonnes	207	378	570	456	553

Note(s)

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

Germany

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	252 000 000	266 000 000	263 300 000	260 000 000	245 000 000
Crushed rock	tonnes	122 244 000	138 700 000	134 000 000	137 400 000	132 500 000
Alumina	tonnes (Al ₂ O ₃ content)	* 830 000	* 850 000	* 900 000	* 900 000	* 900 000
Primary aluminium	tonnes	647 900	515 539	551 000	605 880	291 750
Barytes	tonnes	88 591	85 524	88 265	78 941	45 606
Bentonite and fuller's earth						
Bentonite	tonnes	352 374	363 998	384 709	414 336	326 461
Cadmium	tonnes	* 490	* 490	* 475	* 420	* 250
Cement						
Cement clinker	tonnes	24 315 000	24 921 000	26 992 000	25 366 000	23 232 000
Cement, finished	tonnes	30 600 000	33 630 000	33 382 000	33 581 000	30 441 000
Coal						
Anthracite and bituminous	tonnes	28 018 000	23 762 000	24 185 000	19 143 000	14 971 000
Brown coal	tonnes	177 907 945	176 324 117	180 409 054	175 313 020	169 857 142
Copper, refined	tonnes	638 800	662 338	665 517	689 763	668 945
Copper, smelter	tonnes	257 200	273 800	270 200	295 000	251 000
Feldspar	tonnes	168 640	167 332	171 303	161 416	* 150 000
Fluorspar	tonnes	35 364	53 009	54 359	48 519	49 962
Graphite	tonnes	2 638	—	—	—	—
Gypsum (a)	tonnes	1 644 000	1 771 000	1 898 000	2 112 000	1 898 000
Iron ore (b) (c)	tonnes	362 106	416 000	421 711	455 100	363 699
Pig iron	tonnes	29 294 000	30 940 000	31 700 000	29 105 000	20 104 000
Crude steel	tonnes	44 524 000	47 223 000	48 550 000	45 832 000	32 670 000
Ferro-alloys						
Ferro-chrome	tonnes	22 672	26 710	22 030	26 960	13 667
Other ferro-alloys	tonnes	* 25 400	* 24 100	* 5 000	* 5 000	* 5 000
Silicon metal	tonnes	29 349	29 865	29 379	29 092	27 620
Kaolin (d)	tonnes	3 767 662	3 815 173	3 842 514	3 622 159	4 513 753
Lead, refined	tonnes	417 700	379 000	355 000	415 100	390 600
Crude petroleum	tonnes	3 815 173	3 515 401	3 415 374	3 053 998	2 800 063
Natural gas	million m ³	19 143	19 798	18 075	16 547	15 554
Potash						
Potassic salts	tonnes (K ₂ O content)	3 663 829	3 624 977	3 636 504	3 280 467	1 825 139
Salt						
Rock salt	tonnes	8 258 000	9 280 000	4 826 000	5 545 438	7 709 844
Brine salt	tonnes	1 006 000	1 001 000	1 010 000	989 208	1 862 630
Salt in brine	tonnes	7 449 000	7 189 000	7 558 000	7 306 745	* 7 300 000
Selenium metal	tonnes	* 250	* 250	* 250	* 250	* 230
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	1 627 900	1 706 200	1 650 100	1 578 000	1 624 000
Recovered (f)	tonnes (sulphur content)	42 900	42 500	35 900	39 000	...
Uranium, mine	tonnes (metal content)	80	65	41	* 40	* 60
Slab Zinc	tonnes	334 900	342 566	294 735	292 284	* 153 000

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 petroleum refining and/or Natural gas
(f) Other

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	21 698 651	25 912 337	29 024 954	29 470 321	27 973 749
Aluminium and bauxite						
Bauxite	tonnes	28 087	30 772	36 361	33 636	16 591
Unwrought	tonnes	60 757	72 132	61 090	75 386	67 356
Unwrought alloys	tonnes	330 843	360 157	361 917	359 628	288 023
Alumina	tonnes	204 075	313 586	282 245	305 514	382 750
Alumina hydrate	tonnes	527 900	717 433	672 561	634 635	461 601
Scrap	tonnes	583 987	675 261	770 042	702 739	753 218
Antimony						
Metal	tonnes	15	30	141	33	101
Oxide	tonnes	724	892	1 130	932	448
Arsenic						
Metallic arsenic	tonnes	20	20	32	41	31
Barytes	tonnes	32 375	33 947	43 104	38 111	45 360
Bentonite and fuller's earth						
Bentonite	tonnes	71 977	77 368	81 272	67 109	52 424
Fuller's earth	tonnes	1 540	1 378	...	...	...
Bismuth						
Metal	tonnes	371	534	901	276	143
Bromine	kilograms	3 000	4 600	3 400	14 400	6 031
Cadmium						
Metal	tonnes	...	...	...	287	276
Sulphide	tonnes	14	4	...	...	...
Cement						
Cement clinkers	tonnes	773 394	687 056	1 051 733	1 120 078	467 042
Portland cement	tonnes	3 587 966	4 251 126	4 874 062	5 115 858	4 445 980
Other cement	tonnes	1 876 289	1 852 990	2 086 591	2 077 175	2 101 709
Chromium						
Ores and concentrates	tonnes	14 188	24 185	20 629	23 563	15 922
Metal	tonnes	1 478	2 877	3 114	5 379	4 685
Coal						
Anthracite	tonnes	...	...	7 444	16 575	179 880
Other coal	tonnes	251 623	305 046	309 501	518 629	129 955
Lignite	tonnes	73	27 801	140 400	425 680	523 720
Briquettes	tonnes	74 952	83 990	72 008	370 211	493 552
Cobalt						
Ore	tonnes	171	...	457	145	103
Metal	tonnes	1 395	1 602	2 067	1 588	1 067
Oxides	tonnes	185	140	158	158	69
Copper						
Ores and concentrates	tonnes	46 139	54 167	61 535	48 234	58 932
Matte and cement	tonnes	536	101	24	2	1
Unwrought, unrefined	tonnes	232	3 244	105	182	88
Unwrought, refined	tonnes	149 083	146 137	117 596	124 980	194 016
Unwrought alloys	tonnes	20 232	22 941	22 436	16 485	9 781
Scrap	tonnes	439 134	465 264	480 700	478 643	449 990
Diamond						
Unsorted	carats	£756 000	£21 000	£112 000	£127 000	(a)* £776 000
Gem	carats	169 535	175 658	157 055	153 893	125 735
Industrial	carats	5 255	7 510	8 952	11 966	...
Dust	carats	42 628 300	27 074 465	3 366 830	3 410 935	2 560 000
Diatomite	tonnes	7 000	11 500	7 949	7 189	5 035
Feldspar	tonnes	113 329	121 046	125 258	121 777	70 130
Fluorspar	tonnes	24 061	35 207	56 023	50 338	31 157
Gold						
Metal	kilograms	47 600	65 200	71 250	5 400	113 039
Waste and scrap	kilograms	30 600	7 500	14 800	4 800	62 603
Graphite	tonnes	14 241	20 777	23 993	18 950	12 722
Gypsum						
Crude	tonnes	259 631	391 494	423 152	447 140	393 691
Calcined	tonnes	991 946	1 471 660	1 703 212	1 775 467	1 290 391
Iodine	kilograms	465 800	340 600	183 200	97 400	112 690
Iron ore						
Iron ore	tonnes	7 023	18 294	17 770	34 495	4 497
Burnt pyrites	tonnes	7 257	6 623	7 491	12 700	10 865

Germany

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	82 834	180 939	145 453	153 917	86 491
Sponge and powder	tonnes	175 291	197 636	147 303	95 846	28 183
Ferro-chrome	tonnes	26 472	36 289	39 892	36 856	27 831
Ferro-silico-magnesium	tonnes	14 254	12 142	24 051	22 191	9 323
Ferro-manganese	tonnes	12 660	24 659	14 733	11 802	9 043
Ferro-silico-manganese	tonnes	2 928	9 748	8 684	10 354	4 436
Ferro-molybdenum	tonnes	3 867	3 499	3 636	3 858	3 229
Ferro-nickel	tonnes	31	115	2 116	1 036	1 725
Ferro-niobium	tonnes	1 448	1 130	1 149	1 057	321
Ferro-phosphorus	tonnes	936	977	839	477	475
Ferro-silicon	tonnes	53 979	53 963	51 343	63 858	63 214
Ferro-titanium and ferro-silico-titanium	tonnes	5 263	4 795	6 011	4 237	1 662
Ferro-tungsten and ferro-silico-tungsten	tonnes	176	423	480	460	339
Ferro-vanadium	tonnes	528	268	558	413	755
Other ferro-alloys	tonnes	10 652	10 720	...	...	...
Ingots, blooms, billets	tonnes	1 950 158	2 171 036	2 496 951	2 047 223	1 655 376
Scrap	tonnes	6 692 022	7 605 306	7 770 479	8 268 662	7 275 257
Kaolin	tonnes	301 870	463 804	507 867	498 165	374 313
Lead						
Ores and concentrates	tonnes	102	475	467	—	1 000
Unwrought	tonnes	122 120	126 790	136 609	177 129	204 075
Scrap	tonnes	11 064	8 390	17 799	13 133	13 100
Lithium						
Carbonate	tonnes	2 991	2 907	2 705	2 290	1 880
Magnesite and magnesia						
Magnesite	tonnes	61	132	463	22	140
Magnesia	tonnes	81 021	93 286	87 264	72 684	58 604
Manganese						
Ores and concentrates	tonnes	3 249	3 046	5 761	3 321	3 710
Metal	tonnes	17 824	19 757	15 414	12 921	6 727
Mercury	kilograms	36 200	40 000	42 300	111 100	120 587
Mica	tonnes	3 656	4 039	4 957	4 713	2 888
Molybdenum						
Ores and concentrates	tonnes	2 770	3 812	2 723	3 575	2 502
Metal	tonnes	2 241	2 958	346	2 857	725
Nickel						
Mattes, sinters etc	tonnes	5 604	9 285	18 473	20 202	8 687
Ores and concentrates	tonnes	7 822	8 901	2 520	316	1 619
Unwrought	tonnes	8 988	5 287	4 256	5 200	2 617
Unwrought alloys	tonnes	9 376	9 970	9 664	8 988	3 083
Scrap	tonnes	9 342	6 224	7 383	5 646	8 227
Crude petroleum	tonnes	1 257 658	344 965	196 926	40 011	265 799
Natural gas	tonnes	...	...	...	...	8 592 523
Phosphate rock	tonnes	5 048	700	168	314	137
Platinum metals						
Platinum	kilograms	43 300	40 600	28 100	27 700	36 204
Palladium	kilograms	20 800	24 400	27 800	28 600	43 329
Other Platinum metals	kilograms	11 100	16 000	22 300	24 700	65 029
Waste and scrap	kilograms	1 648 800	2 797 600	3 399 700	3 238 800	3 352 271
Potash						
Potassic fertilisers (b) (c)	tonnes	3 235 651	3 624 977	3 636 504	3 280 467	1 825 139
Rare earths						
Rare earth compounds	tonnes	123	145	217	188	652
Metals	tonnes	1	1	8	3	19
Salt	tonnes	3 372 522	3 943 083	2 787 088	2 782 861	2 744 985
Sillimanite minerals	tonnes	12 191	13 257	16 143	18 231	7 965
Silver						
Metal	kilograms	2 631 200	2 995 900	2 884 200	3 012 400	2 169 994
Sulphur and pyrites						
Pyrites	tonnes	240	486	741	485	320
Sulphur	tonnes	898 820	796 341	828 544	654 808	681 563
Talc	tonnes	3 906	4 790	5 394	6 382	3 662
Tantalum and niobium						
Tantalum	tonnes	190	294	199	299	8

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Tin						
Concentrates	tonnes	163	331	—	—	163
Unwrought	tonnes	1 343	1 015	1 246	1 612	1 000
Unwrought alloys	tonnes	329	392	1 371	1 530	1 088
Scrap	tonnes	701	965	1 222	1 649	1 129
Titanium						
Titanium minerals	tonnes	607	490	776	3 322	6 864
Metal	tonnes	8 911	8 893	8 713	8 278	5 367
Oxides	tonnes	359 946	400 832	409 495	367 545	351 872
Tungsten						
Metal	tonnes	4 020	4 320	3 020	4 687	2 655
Vanadium						
Ores and concentrates	tonnes	4 680	2 372	...	...	...
Pentoxide	tonnes	1 216	1 444	1 250	1 173	...
Metal	tonnes	1 469	573	...	...	...
Zinc						
Ores and concentrates	tonnes	7 257	2 336	612	1 835	888
Unwrought	tonnes	81 664	65 824	77 443	70 724	63 165
Unwrought alloys	tonnes	30 115	29 999	30 439	28 835	24 163
Scrap	tonnes	55 913	54 939	59 297	51 801	68 648
Zirconium						
Concentrates	tonnes	5 211	1 643	2 057	2 799	1 562
Metal	tonnes	286	434	514	625	386

Note(s)

(a) BGS estimates, based on known value of imports to certain countries

(b) K₂O content

(c) Including sulphate, chloride and other potassic fertilisers

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	11 563 984	11 147 034	11 913 688	13 369 162	12 866 444
Aluminium and bauxite						
Bauxite	tonnes	2 435 244	2 143 631	3 141 693	2 995 241	2 069 109
Alumina	tonnes	999 798	912 564	790 515	1 017 746	518 456
Alumina hydrate	tonnes	231 124	219 035	266 042	241 736	168 216
Unwrought	tonnes	648 764	754 311	786 506	693 075	495 511
Unwrought alloys	tonnes	1 121 715	1 318 713	1 444 289	1 370 179	1 157 271
Scrap	tonnes	438 066	539 367	613 084	543 839	362 582
Antimony						
Metal	tonnes	148	421	612	700	552
Oxide	tonnes	6 560	8 305	8 527	8 672	5 072
Asbestos						
Unmanufactured	tonnes	98	61	54	54	36
Barytes	tonnes	231 471	272 526	320 702	278 335	129 220
Bentonite and fuller's earth						
Bentonite	tonnes	253 226	323 999	351 991	361 782	335 990
Fuller's earth	tonnes	9 571	9 371	...	...	...
Bismuth						
Metal	tonnes	1 508	1 337	1 130	1 262	881
Bromine	kilograms	1 304 000	801 100	607 500	646 400	456 893
Cadmium						
Metal	tonnes	16	7	22	53	11
Oxide	tonnes	231	...	423	507	522
Sulphide	tonnes	18	...	...	...	...
Cement						
Cement clinkers	tonnes	289 600	235 023	92 757	14 184	9 200
Portland cement	tonnes	934 865	794 716	833 311	770 566	904 023
Other cement	tonnes	380 858	345 286	311 152	293 583	272 741
Chromium						
Ores and concentrates	tonnes	141 483	126 874	154 367	175 277	45 684
Metal	tonnes	5 428	7 552	8 454	7 022	3 328

Germany

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Coal						
Anthracite	tonnes	991 877	2 499 908	4 353 426	4 137 690	3 893 429
Other coal	tonnes	29 452 512	35 218 836	37 993 445	37 215 220	30 926 568
Lignite	tonnes	9 890	10 070	15 411	39 248	37 839
Briquettes	tonnes	110 971	128 877	96 169	70 400	132 895
Cobalt						
Metal	tonnes	2 990	3 532	3 150	2 921	2 017
Oxides	tonnes	542	759	898	1 057	902
Copper						
Ores and concentrates	tonnes	1 149 088	1 148 316	1 300 491	1 088 291	1 252 430
Matte and cement	tonnes	25 931	30 463	14 880	10 102	4 133
Unwrought, unrefined	tonnes	36 671	41 589	31 830	24 706	46 840
Unwrought, refined	tonnes	624 688	881 427	844 747	833 354	658 703
Unwrought alloys	tonnes	26 657	36 770	48 261	40 073	38 538
Scrap	tonnes	432 147	552 413	595 751	563 560	454 753
Diamond						
Gem	carats	443 747	487 354	515 262	709 636	299 771
Industrial	carats	1 572 864	1 554 184	1 090 991	505 400	209 539
Dust	carats	63 878 900	53 291 240	45 596 025	45 914 930	21 374 780
Diatomite	tonnes	40 224	40 197	42 882	49 237	38 258
Feldspar	tonnes	101 931	126 834	143 596	143 758	130 081
Fluorspar	tonnes	264 896	293 737	346 581	357 914	187 330
Gold						
Metal	kilograms	52 827	56 743	68 549	118 516	164 511
Waste and scrap	kilograms	1 923 600	1 821 100	1 304 700	1 390 000	1 126 326
Graphite	tonnes	55 843	45 884	54 627	62 180	33 293
Gypsum						
Crude	tonnes	66 590	79 798	80 449	54 216	28 315
Calcined	tonnes	73 647	85 665	93 275	76 992	75 319
Iodine	kilograms	1 302 300	1 205 800	1 102 600	1 150 600	1 168 886
Iron ore						
Iron ore	tonnes	39 061 160	44 850 286	46 194 376	44 339 072	28 812 155
Burnt pyrites	tonnes	20 496	36 299	570	—	7 087
Iron, steel and ferro-alloys						
Pig iron	tonnes	320 481	422 525	655 022	713 470	402 132
Sponge and powder	tonnes	156 048	193 503	249 673	90 069	294 393
Ferro-chrome	tonnes	454 703	458 070	484 276	544 619	305 008
Ferro-silico-chrome	tonnes	1 429	12 867	14 426	12 886	8 648
Ferro-silico-magnesium	tonnes	6 831	23 761	25 758	23 645	12 238
Ferro-manganese	tonnes	170 967	195 387	217 428	209 083	122 063
Ferro-silico-manganese	tonnes	172 967	181 726	210 703	156 484	111 008
Ferro-molybdenum	tonnes	15 594	17 473	18 423	17 434	12 484
Ferro-nickel	tonnes	157 091	150 789	169 677	177 851	127 087
Ferro-niobium	tonnes	4 361	6 063	6 176	6 269	4 047
Ferro-phosphorus	tonnes	4 985	5 575	6 519	4 801	1 332
Ferro-silicon	tonnes	238 120	214 736	274 783	215 374	146 127
Ferro-titanium and ferro-silico-titanium	tonnes	10 302	13 492	15 339	13 824	5 461
Ferro-tungsten and ferro-silico-tungsten	tonnes	600	990	1 512	2 182	1 366
Ferro-vanadium	tonnes	4 843	5 171	5 711	5 333	3 421
Other ferro-alloys	tonnes	13 323	13 698	—	—	13 571
Silicon metal	tonnes	156 690	184 499	190 933	225 185	183 516
Ingots, blooms, billets	tonnes	2 331 264	2 578 298	3 095 162	2 970 042	1 171 865
Scrap	tonnes	5 026 286	5 592 745	5 920 061	5 675 167	3 865 110
Kaolin	tonnes	803 001	809 329	717 102	647 278	585 675
Lead						
Ores and concentrates	tonnes	171 533	161 113	211 132	212 602	234 102
Unwrought	tonnes	108 533	134 805	138 978	118 779	103 642
Scrap	tonnes	15 419	18 141	30 313	28 231	40 547
Lithium						
Oxides	tonnes	4 209	4 260	5 163	5 420	...
Carbonate	tonnes	8 101	7 948	8 131	7 098	4 433
Magnesite and magnesia						
Magnesite	tonnes	6 353	13 794	17 029	8 420	6 731
Magnesia	tonnes	515 089	519 576	568 508	562 618	276 674
Manganese						
Ores and concentrates (a)	tonnes	7 645	11 327	15 997	14 916	14 645
Metal	tonnes	29 449	45 937	42 368	47 581	33 989

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Mercury	kilograms	36 200	70 600	84 100	19 700	28 678
Mica						
Unmanufactured	tonnes	89	12	16	386	221
Ground	tonnes	30 820	33 101	36 345	33 175	25 682
Waste	tonnes	1 101	980	782	966	316
Molybdenum						
Ores and concentrates	tonnes	11 537	14 059	10 721	9 645	6 953
Metal	tonnes	2 569	3 894	4 238	4 132	1 726
Oxides	tonnes	725	2 049	1 776	1 905	1 661
Nickel						
Mattes, sinters etc	tonnes	6 902	6 459	1 911	797	561
Ores and concentrates	tonnes	57	293	1 532	1 310	1 087
Unwrought	tonnes	87 939	70 947	74 083	68 767	42 201
Unwrought alloys	tonnes	2 182	2 908	2 531	6 102	3 839
Scrap	tonnes	11 672	15 116	19 799	18 316	8 259
Oxides	tonnes	502	445	593	617	463
Crude petroleum	tonnes	113 067 864	113 960 654	105 162 534	105 835 665	97 648 203
Natural gas	tonnes	78 310 541	83 475 456	75 980 087	78 201 702	78 990 573
Phosphate rock	tonnes	104 335	117 711	115 109	145 905	28 863
Platinum metals						
Platinum	kilograms	58 400	46 900	51 500	47 100	42 452
Palladium	kilograms	56 000	42 000	54 700	55 100	47 092
Other Platinum metals	kilograms	9 100	8 700	9 700	6 400	12 120
Waste and scrap	kilograms	6 574 600	9 332 700	11 442 800	10 983 600	6 224 314
Potash						
Sulphate	tonnes	5 964	5 414	17 108	11 801	13 194
Chloride	tonnes	75 483	62 917	101 081	124 643	75 154
Other potassic fertilisers	tonnes	4 065	809	1 344	2 503	633
Rare earths						
Cerium compounds	tonnes	1 082	975	901	673	448
Other rare earth compounds	tonnes	6 961	7 024	9 748	10 192	7 755
Ferro-cerium and other pyrophoric alloys	tonnes	6	3	7	6	2
Metals	tonnes	402	369	410	430	106
Salt	tonnes	2 558 898	2 591 036	2 476 738	2 319 273	1 867 023
Sillimanite minerals	tonnes	58 047	80 183	109 961	79 668	39 511
Silver						
Ores and concentrates	kilograms	...	1 323 500	859 400	6 024 500	2 581 290
Metal	kilograms	1 861 800	2 227 600	2 565 300	2 668 900	1 784 960
Sulphur and pyrites						
Pyrites	tonnes	62 686	76 343	92 569	109 955	52 641
Sulphur	tonnes	46 127	31 267	51 785	53 602	38 246
Sulphur, sublimed and precipitated	tonnes	4 389	1 363	2 007	2 964	2 856
Talc	tonnes	376 618	345 863	347 230	338 606	293 417
Tantalum and niobium						
Tantalum	tonnes	164	148	125	188	67
Tin						
Unwrought	tonnes	20 438	21 584	23 917	22 160	14 193
Unwrought alloys	tonnes	554	936	409	179	175
Scrap	tonnes	506	917	1 689	2 243	674
Titanium						
Ilmenite	tonnes	333 603	414 037	425 175	446 154	304 471
Other titanium minerals	tonnes	224 675	253 392	200 512	279 407	212 735
Titanium slag	tonnes	—	17 403	112 474	76 107	42 042
Metal	tonnes	15 978	18 426	19 385	19 449	11 649
Oxides	tonnes	240 554	269 812	299 599	281 009	240 120
Tungsten						
Ores and concentrates	tonnes	493	512	604	967	821
Metal	tonnes	5 515	4 450	4 791	5 184	3 313
Carbide	tonnes	1 802	1 366	2 678	2 526	1 333
Vanadium						
Ores and concentrates	tonnes	104	53	79	60	...
Pentoxide	tonnes	741	1 222	1 071	879	...
Metal	tonnes	193	173	...	...	...

Germany

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Zinc						
Ores and concentrates	tonnes	401 829	314 268	357 692	383 789	271 554
Unwrought	tonnes	245 794	313 034	316 603	305 075	285 965
Unwrought alloys	tonnes	76 981	83 795	87 785	89 738	36 350
Scrap	tonnes	22 480	30 028	19 586	17 395	16 782
Zirconium						
Concentrates	tonnes	...	—	—	76 070	51 179
Metal	tonnes	503	571	880	791	664

Note(s)

(a) Including manganiferous iron ore

Greece

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel and crushed rock	tonnes	* 90 000 000	* 90 000 000	* 90 000 000	* 85 000 000	* 65 000 000
Bauxite	tonnes	2 441 443	2 162 900	2 125 900	2 174 000	1 935 000
Alumina	tonnes (Al ₂ O ₃ content)	782 000	780 000	761 746	771 769	718 797
Primary aluminium	tonnes	165 300	164 500	167 937	162 339	134 737
Bentonite and fuller's earth						
Bentonite	tonnes	1 124 795	* 1 200 000	(a) 1 389 800	(a) 1 528 584	(a) 926 186
Cement						
Cement clinker	tonnes	12 442 361	10 852 453	12 035 077	11 361 397	8 649 322
Cement, finished	tonnes	15 191 761	15 723 088	14 559 293	14 013 312	11 160 205
Coal						
Lignite	tonnes	70 600 000	64 800 000	66 100 000	64 521 000	61 800 000
Feldspar	tonnes	100 586	* 100 000	95 000	62 000	28 617
Gypsum	tonnes	865 216	* 850 000	836 967	(b) 1 000 000	(b) 730 000
Crude steel	tonnes	2 266 000	2 416 000	2 554 000	2 477 000	2 000 000
Ferro-alloys						
Ferro-nickel	tonnes	* 96 000	* 89 000	93 300	83 200	41 300
Kaolin	tonnes	49 912	* 40 000	30 000	4 360	—
Lead, mine	tonnes (metal content)	2 900	11 400	13 400	14 000	10 000
Lead, refined	tonnes	* —	* 6 000	* 11 000	* 11 000	* 11 000
Magnesite	tonnes	471 000	463 277	351 414	361 165	380 834
Nickel, mine	tonnes (metal content)	20 400	21 700	21 200	18 600	9 600
Nickel, smelter/refinery	tonnes	19 235	17 700	18 668	16 640	8 269
Perlite	tonnes	1 075 129	* 1 100 000	1 100 000	1 000 000	862 935
Crude petroleum	tonnes	135 000	93 000	80 000	66 000	87 000
Natural gas	million m ³	16	* 16	21	14	11
Salt	tonnes	198 024	* 200 000	212 000	* 220 000	* 189 000
Silver, mine	kilograms (metal content)	2 300	25 500	38 300	35 500	30 177
Sulphur and pyrites						
Recovered (c)	tonnes (sulphur content)	162 000	162 000	165 000	120 000	142 000
Talc	tonnes	250	* 250	200	* 200	* 200
Zinc, mine	tonnes (metal content)	4 000	16 000	20 700	24 200	17 800

Note(s)

(1) Greece is believed to produce gold

(a) Including attapulgite and sepiolite

(b) Including anhydrite

(c) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	43 306	48 990	49 781	50 453	59 216
Aluminium and bauxite						
Bauxite	tonnes	1 136 505	912 093	1 086 405	787 160	409 508
Alumina	tonnes	439 374	457 726	715 003	412 385	412 888
Alumina hydrate	tonnes	2 944	8 239	21 716	29 552	74 996
Unwrought	tonnes	60 964	64 487	27 195	26 083	17 533
Unwrought alloys	tonnes	15 017	18 804	67 732	64 998	57 668
Scrap	tonnes	15 205	19 105	13 566	13 261	14 681
Antimony						
Metal	tonnes	141	160	143	81	—
Bentonite and fuller's earth						
Bentonite	tonnes	1 283	12 620	168	8 885	5 116
Fuller's earth	tonnes	90	122	...	...	...
Cement						
Cement clinkers	tonnes	304 750	356 077	848 925	722 151	851 946
Portland cement	tonnes	3 502 085	2 816 832	2 685 623	2 842 584	3 051 954
Other cement	tonnes	242 957	181 529	207 665	205 640	297 036

Greece

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Chromium						
Ores and concentrates	tonnes	249	726	—	98	44
Coal						
Hard coal (a)	tonnes	11 673	15 852	25 717	8 426	4 799
Briquettes	tonnes	51 752	23 465	12	25	—
Copper						
Unwrought, refined	tonnes	1 242	2 541	1 944	356	2 748
Unwrought alloys	tonnes	365	1 142	995	1 198	1 071
Scrap	tonnes	15 126	16 889	14 669	12 314	15 742
Feldspar	tonnes	4 755	5 258	6 052	5 806	718
Gold						
Metal	kilograms	3	311	900	400	500
Gypsum						
Crude	tonnes	88 187	116 442	47 694	21 258	49 037
Calcined	tonnes	926	752	1 842	937	580
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	1 044	511	340	3 671	377
Ingots, blooms, billets	tonnes	48	13 899	121 989	162 819	102 721
Scrap	tonnes	37 164	126 188	34 584	36 018	34 840
Kaolin	tonnes	129	472	276	384	225
Lead						
Unwrought	tonnes	4 017	3 292	9 913	5 792	2 360
Scrap	tonnes	848	1 256	769	1 390	913
Magnesite and magnesias						
Magnesia	tonnes	140 083	125 783	132 083	126 496	84 399
Mica	tonnes	5 653	9 613	3	59	59
Nickel						
Ores and concentrates	tonnes	...	52 169	150	231	144 529
Potash						
Potassic fertilisers	tonnes	2 894	3 977	1 217	1 648	1 369
Salt	tonnes	50 390	62 896	37 232	48 908	47 406
Silver						
Metal	kilograms	152	3 325	8 300	7 400	79 400
Sulphur and pyrites						
Pyrites	tonnes	4 306	16 495	73 606	63 893	24 429
Sulphur	tonnes	138	43 773	52 668	16 345	4 044
Talc	tonnes	3 479	4 065	5 016	3 926	3 898
Titanium						
Oxides	tonnes	2 373	1 861	2 233	598	462
Zinc						
Ores and concentrates	tonnes	3 276	12 615	14 890	43 003	21 311
Unwrought (b)	tonnes	334	1 802	29 861	448	665

Note(s)

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	22 026	45 081	341 376	425 485	177 887
Aluminium and bauxite						
Bauxite	tonnes	206 870	268 899	376 304	226 374	351 677
Alumina	tonnes	1 049	71 073	283 255	38 828	963
Unwrought	tonnes	121 266	125 541	125 327	129 407	110 311
Unwrought alloys	tonnes	68 958	62 828	73 561	63 670	32 252
Scrap	tonnes	18 083	20 030	50 470	28 960	17 339
Antimony						
Ores and concentrates	tonnes	95	131	83	27	6
Metal	tonnes	24	0	21	63	85
Arsenic						
Metallic arsenic	tonnes	35	16	9	9	11
Barytes	tonnes	996	1 065	1 255	1 348	2 133

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Bentonite and fuller's earth						
Bentonite	tonnes	22 164	14 573	19 780	21 261	8 593
Fuller's earth	tonnes	844	811	...	...	...
Bismuth						
Metal	tonnes	6	6	11	3	—
Cadmium						
Metal	tonnes	1	1	1	18	39
Cement						
Cement clinkers	tonnes	1 494	50 907	45 388	23 558	4 249
Portland cement	tonnes	425	3 237	3 603	74 239	136 300
Other cement	tonnes	4 548	3 228	3 010	2 618	2 359
Chromium						
Ores and concentrates	tonnes	477	732	257	298	230
Coal						
Anthracite	tonnes	35 475	39 250	59 007	41 475	37 585
Other coal	tonnes	724 600	461 181	382 933	288 441	138 831
Lignite	tonnes	0	50	3 029	35 457	48 841
Briquettes	tonnes	1 803	1 382	1 144	111	5 827
Cobalt						
Metal	tonnes	31	30	42	123	14
Copper						
Unwrought	tonnes	90 557	106 404	105 722	79 928	57 367
Unwrought alloys	tonnes	488	4 439	6 855	9 393	305
Scrap	tonnes	930	2 141	10 148	18 628	11 245
Diamond						
Unsorted	carats	9 570 000	20 035 000	7 000 000	116 000 000	1 000 000
Gem, rough	carats	85 000	55 000	205 000	425 000	3 365 000
Gem, cut	carats	10 375 000	10 075 000	9 470 000	2 815 000	6 370 000
Industrial	carats	6 770 000	9 720 000	11 355 000	22 810 000	43 195 000
Dust	carats	19 475 000	10 550 000	17 573 974	17 713 060 000	2 803 695 000
Diatomite	tonnes	645	757	958	790	482
Feldspar	tonnes	3 032	439	478	2 830	5 851
Fluorspar	tonnes	10 681	2 855	2 232	2 281	1 954
Gold						
Metal	kilograms	56 572	60 999	48 500	114 500	26 600
Graphite	tonnes	91	83	111	142	918
Gypsum						
Crude and calcined	tonnes	6 071	14 321	4 747	3 093	2 097
Iodine	kilograms	2 247	2 153	500	600	800
Iron ore	tonnes	(a) 55 529	(a) 9 755	(a) 2 280	74	(a) 172
Iron, steel and ferro-alloys						
Pig iron	tonnes	6 415	9 172	10 461	9 185	9 107
Sponge and powder	tonnes	3 374	492	6 741	7 709	9 685
Ferro-chrome	tonnes	674	871	1 016	1 146	916
Ferro-manganese	tonnes	1 293	640	2 654	1 753	1 216
Ferro-silico-manganese	tonnes	31 657	31 524	38 321	24 943	8 023
Ferro-silicon	tonnes	6 339	4 694	18 783	8 170	4 569
Other ferro-alloys	tonnes	474	444	546	504	170
Silicon metal	tonnes	1 126	1 408	1 383	2 312	906
Ingots, blooms, billets	tonnes	90 412	120 241	250 572	171 231	159 350
Scrap	tonnes	1 545 912	1 517 545	1 637 437	1 485 316	1 159 166
Kaolin	tonnes	54 293	68 083	40 298	62 415	49 509
Lead						
Unwrought	tonnes	5 112	5 401	11 792	6 875	10 644
Scrap	tonnes	85	138	2 071	2 800	1 753
Magnesite and magnesia						
Magnesite	tonnes	14 250	15 645	12 611	44 397	19 803
Magnesia	tonnes	17 232	22 763	20 682	7 328	1 729
Manganese						
Ores and concentrates	tonnes	22 001	46 164	—	51 425	31 776
Metal	tonnes	905	730	291	271	162
Mercury	kilograms	954	933	100	2 500	600
Mica	tonnes	131	111	123	218	317
Molybdenum						
Metal	tonnes	2	47	34	60	58

Greece

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Nickel						
Ores and concentrates	tonnes	29 153	6 657	36	—	15
Unwrought (b)	tonnes	58	40	46	101	118
Crude petroleum	tonnes	18 926 138	18 370 720	16 938 841	6 422 841	2 437 424
Natural gas	tonnes	2 634 247	3 029 778	3 789 666	4 186 746	3 086 243
Phosphate rock	tonnes	378 931	197 629	237 577	251 845	192 135
Platinum metals						
Platinum and platinum metals	kilograms	181	248	7 400	300	100
Potash						
Sulphate	tonnes	28 334	44 049	37 785	36 642	14 325
Chloride	tonnes	46 667	36 887	22 518	28 144	20 773
Other potassic fertilisers	tonnes	4 387	9 682	6 189	8 660	107
Rare earths						
Rare earth compounds	tonnes	6	4	3	1	—
Ferro-cerium and other pyrophoric alloys	tonnes	1	0	22	0	—
Metals	tonnes	...	...	1	20	68
Salt	tonnes	162 669	277 940	177 719	134 557	149 094
Sillimanite minerals	tonnes	25	62	734	2 662	505
Silver						
Metal	kilograms	1 059 816	46 241	1 039 000	276 100	31 300
Sulphur and pyrites						
Pyrites	tonnes	...	31 906	94 621	40 754	3
Sulphur	tonnes	68 765	3 933	35 625	42 733	26 673
Talc	tonnes	9 937	10 000	8 550	12 372	7 862
Tin						
Unwrought (b)	tonnes	615	244	323	265	80
Titanium						
Titanium minerals	tonnes	528	440	826	399	351
Oxides	tonnes	25 592	25 372	27 284	23 260	19 289
Vanadium						
Ores and concentrates	tonnes	...	...	...	...	80
Zinc						
Unwrought (b)	tonnes	20 110	19 320	58 708	28 996	25 422
Zirconium						
Concentrates	tonnes	629	466	547	429	122

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Hungary

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	69 027 609	46 458 296	34 815 891	36 647 400	35 248 167
Crushed rock	tonnes	15 078 440	17 944 036	13 046 962	17 030 760	16 462 070
Bauxite	tonnes	535 337	538 258	546 310	511 337	267 000
Alumina	tonnes (Al ₂ O ₃ content)	* 305 000	* 301 000	* 301 000	* 299 000	* 185 000
Primary aluminium	tonnes	31 000	300	—	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	4 900	6 635	54 231	7 464	2 839
Cement						
Cement clinker	tonnes	...	2 533 076	2 500 698	* 2 500 000	* 2 400 000
Cement, finished	tonnes	3 371 000	3 724 153	3 551 746	3 544 000	* 3 200 000
Coal						
Lignite	tonnes	8 153 968	8 467 220	8 351 563	8 041 168	8 026 587
Brown coal	tonnes	1 426 000	1 431 700	1 450 400	1 386 140	952 000
Diatomite	tonnes	2 190	495	1 424	—	1 277
Gypsum (a)	tonnes	19 000	30 000	26 000	15 940	19 766
Pig iron	tonnes	1 329 000	1 340 000	1 393 655	1 288 758	1 050 000
Crude steel	tonnes	2 004 250	2 084 000	2 227 000	2 097 000	1 401 000
Kaolin	tonnes	1 300	1 350	2 136	—	—
Manganese ore	tonnes	50 000	50 000	51 000	49 579	43 000
Perlite	tonnes	69 900	71 019	67 542	132 000	82 058
Crude petroleum	tonnes	947 542	886 000	838 672	774 590	842 191
Natural gas	million m ³	3 041	3 254	2 653	2 703	2 748
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	65 000	50 000	65 000	55 000	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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	736 586	961 775	1 889 989	1 382 695	1 294 700
Aluminium and bauxite						
Alumina	tonnes	142 470	170 030	178 984	168 347	89 857
Alumina hydrate	tonnes	75 811	90 705	98 187	102 652	88 515
Unwrought (a)	tonnes	22 635	28 884	27 580	10 981	26 176
Scrap	tonnes	41 192	34 986	29 228	22 098	35 060
Bentonite and fuller's earth						
Bentonite	tonnes	442	860	849	1 191	555
Cement						
Cement clinkers	tonnes	27 328	—	—	—	1 701
Portland cement	tonnes	274 262	257 050	177 191	329 647	220 069
Other cement	tonnes	123	32	4 448	25 169	2 987
Coal						
Lignite	tonnes	366 132	—	—	89 444	41 329
Copper						
Unwrought alloys	tonnes	...	...	...	989	314
Scrap	tonnes	34 861	27 051	23 394	20 958	19 120
Gold						
Metal	kilograms	628	470	871	657	1 312
Gypsum						
Crude and calcined	tonnes	2 648	6 408	8 626	19 259	22 019

Hungary

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	234	—	829	47	...
Ingots, blooms, billets	tonnes	24 923	14 731	36 548	90 282	4 315
Scrap	tonnes	761 464	658 499	567 923	691 805	636 805
Kaolin	tonnes	6 252	3 781	3 762	3 110	2 847
Lead						
Scrap	tonnes	2 987	3 286	2 369	4 052	4 001
Natural gas	tonnes	11 560	—	127 853	—	323 537
Nickel						
Scrap	tonnes	60	...	40	81	203
Platinum metals						
Waste and scrap	kilograms	...	...	89 200	...	...
Potash						
Potassic fertilisers	tonnes	1 253	2 336	3 474	7 891	9 916
Rare earths						
Rare earth compounds	tonnes	0	...	...	14	—
Salt	tonnes	49 578	45 215	1 459	1 388	3 434
Sillimanite minerals						
Mullite	tonnes	6 920	6 870	(b)* 7 500	(b)* 7 100	(b)* 3 300
Silver						
Metal	kilograms	1 033	395	527	139	1 300
Sulphur and pyrites						
Sulphur	tonnes	36 471	34 850	43 178	43 649	39 638
Tin						
Unwrought (a)	tonnes	28	70	51	140	82
Scrap	tonnes	67	123	141	246	222
Titanium						
Oxides	tonnes	126	324	991	1 402	1 120
Zinc						
Unwrought	tonnes	415	1 189	—	(a) 523	—
Scrap	tonnes	3 938	4 557	3 716	1 902	2 978

Note(s)

(a) Including alloys

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	446 504	211 927	455 416	806 281	446 187
Aluminium and bauxite						
Bauxite	tonnes	279 660	243 873	319 681	297 832	178 031
Alumina	tonnes	15 638	2 558	3 350	9 505	12 598
Unwrought	tonnes	109 382	109 506	132 695	122 319	100 897
Unwrought alloys	tonnes	54 362	72 573	149 299	107 123	79 437
Scrap	tonnes	17 164	49 076	37 204	56 347	30 212
Antimony						
Oxide	tonnes	180	139	192	144	173
Barytes	tonnes	...	...	1 444	492	4 529
Bentonite and fuller's earth						
Bentonite	tonnes	2 794	4 850	2 933	3 095	3 608
Fuller's earth	tonnes	281	...	...	...	...
Bismuth						
Metal	tonnes	2	3	3	13	84
Bromine	kilograms	12 000	9 300	(a) 29 143	9 900	10 500
Cement						
Cement clinkers	tonnes	9 051	65 437	40 099	...	117 232
Portland cement	tonnes	565 366	455 108	560 863	643 776	565 552
Other cement	tonnes	508 067	375 337	144 824	55 798	49 051
Chromium						
Ores and concentrates	tonnes	388	306	492	479	251
Metal	tonnes	182	289	28	86	23

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Coal						
Hard coal	tonnes	1 298 122	(b) 1 765 117	1 950 139	1 893 076	(b) 1 340 769
Lignite	tonnes	710 417	686 862	572 742	767 480	413 094
Briquettes	tonnes	14 310	15 416	13 589	16 093	17 519
Copper						
Unwrought	tonnes	3 269	2 175	2 492	3 016	2 168
Scrap	tonnes	399	571	1 405	5 933	10 091
Diamond						
Gem, cut	carats	£849 000	£246 000	£52 000	£220 000	£167 000
Diatomite	tonnes	1 158	1 476	2 111	1 110	796
Feldspar	tonnes	20 184	16 091	13 567	10 418	14 499
Fluorspar	tonnes	(c)* 2 900	2 801	7 460	4 512	(c)* 1 500
Gold						
Metal	kilograms	1 380	235	229	(c) 400	1 076
Graphite	tonnes	191	192	178	147	126
Gypsum						
Crude and calcined	tonnes	60 336	65 546	66 039	55 933	46 376
Iodine	kilograms	6 700	1 800	4 400	7 900	2 100
Iron ore	tonnes	996 277	987 543	968 033	616 684	876 109
Iron, steel and ferro-alloys						
Pig iron	tonnes	8 808	14 821	13 285	12 951	3 403
Ferro-manganese	tonnes	2 898	15 611	4 311	4 318	2 037
Ferro-silico-manganese	tonnes	1 368	3 303	4 168	4 661	922
Ferro-silicon	tonnes	5 013	4 821	5 907	5 232	3 100
Other ferro-alloys	tonnes	4 049	1 677	1 535	13 393	15 780
Silicon metal	tonnes	2 260	4 847	2 982	2 184	2 589
Ingots, blooms, billets	tonnes	102 861	38 956	29 820	273 585	104 855
Scrap	tonnes	45 860	65 136	87 369	146 494	34 357
Kaolin	tonnes	33 075	25 282	25 168	29 089	25 094
Lead						
Unwrought	tonnes	5 028	4 063	5 802	2 711	2 663
Magnesite and magnesia	tonnes	6 251	5 435	9 760	14 754	2 644
Manganese						
Ores and concentrates	tonnes	...	20	254	293	220
Metal	tonnes	889	1 180	332	1 185	280
Mercury	kilograms	4 607	3 529	3 300	4 293	4 800
Molybdenum						
Metal	tonnes	129	145	112	102	69
Nickel						
Unwrought (d)	tonnes	115	141	116	69	219
Crude petroleum	tonnes	6 320 762	(c)* 7 667 000	6 064 641	(c)* 6 959 000	(c)* 6 241 000
Natural gas	tonnes	8 238 371	8 013 603	7 366 053	8 574 143	6 238 749
Platinum metals						
Platinum and platinum metals	kilograms	985	91	126	453	26
Potash						
Chloride	tonnes	137 278	133 764	168 692	181 373	38 441
Other potassic fertilisers	tonnes	3 735	3 180	5 863	4 552	4 372
Rare earths						
Rare earth compounds	tonnes	131	146	242	116	60
Salt	tonnes	592 522	662 455	514 119	510 287	535 928
Sillimanite minerals	tonnes	4 519	3 001	3 428	4 004	2 541
Silver						
Metal	kilograms	15 711	206 137	14 581	8 354	128 985
Sulphur and pyrites						
Sulphur (c)	tonnes	* 1 400	* 3 400	* 1 200	* 1 400	* 1 200
Sulphur, sublimed and precipitated	tonnes	362	326	174	586	186
Talc	tonnes	...	8 175	9 224	8 875	7 566
Tin						
Unwrought (d)	tonnes	192	384	328	320	208
Titanium						
Titanium minerals	tonnes	2 260	1 623	...	2 659	...
Oxides	tonnes	7 523	7 845	8 291	8 590	6 853
Tungsten						
Metal	tonnes	165	41	41	54	31
Zinc						
Unwrought (d)	tonnes	14 529	19 093	16 843	17 011	9 862

Hungary

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Zirconium Concentrates	tonnes	3 266	...	2 427	2 439	1 265

Note(s)

- (a) May include some fluorine
- (b) Including anthracite
- (c) BGS estimates, based on known exports from certain countries
- (d) Including alloys

Iceland

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aluminium	tonnes	273 318	328 424	446 297	761 204	813 880
Ferro-alloys						
Ferro-silicon	tonnes	114 844	113 798	114 886	107 882	135 834

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 081	14 236	35 965	41 024	29 712
Aluminium and bauxite						
Unwrought	tonnes	283 608	303 288	446 297	760 764	805 450
Scrap	tonnes	1 312	4 603	3 872	12 483	4 467
Copper						
Scrap	tonnes	795	...	...	...	...
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	125	103 572	117 230	105 868	1 129 930
Silicon metal	tonnes	4	—	15	—	200
Scrap	tonnes	36 624	28 908	68 014	60 287	38 075
Salt	tonnes	2 106	2 647	5 934	3 718	2 115
Zinc						
Scrap	tonnes	49	...	...	...	...

Imports

Commodity	Units	2005	2006	2007	2008	2009
Aluminium and bauxite						
Alumina	tonnes	434 801	663 691	814 258	1 620 531	1 557 309
Unwrought (a)	tonnes	1 095	291	293	439	1 461
Bentonite and fuller's earth						
Bentonite	tonnes	726	2 468	5 022	2 392	1 259
Cement						
Cement clinkers	tonnes	45 464	11 922	17 978	628	30
Portland cement	tonnes	59 628	199 525	166 488	111 918	38 640
Other cement	tonnes	27 165	847	868	505	241
Coal						
Anthracite	tonnes	103 401	91 545	107 686	91 576	104 094
Other coal	tonnes	13 556	6	31 882	6 609	9 903
Copper						
Unwrought, refined	tonnes	1 637	4 509	199	...	...
Graphite	tonnes	—	2	—	11	2 132
Gypsum						
Crude	tonnes	7 353	10 061	13 279	10 533	4 724
Calcined	tonnes	928	713	1 409	1 606	642
Iodine	kilograms	60 040	104	12 001	12 029	9
Iron ore	tonnes	38 058	38 509	43 452	(b) 44 167	34 404
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 195	956	502	1 128	1 333
Ferro-alloys	tonnes	13	43	63	113	5 641
Silicon metal	tonnes	220	364	466	1 614	237
Ingots, blooms, billets	tonnes	2 569	1 647	4 352	1 361	1 528
Platinum metals						
Platinum and platinum metals	kilograms	371	70	960	162	158
Rare earths						
Ferro-cerium and other pyrophoric alloys	tonnes	156	98	112	86	88
Metals	tonnes	...	...	—	85	87

Iceland

Imports

Commodity	Units	2005	2006	2007	2008	2009
Salt	tonnes	108 821	96 212	100 169	113 142	98 207
Silver						
Metal	kilograms	544	763	1 388	858	1 096
Titanium						
Oxides	tonnes	388	312	396	322	233

Note(s)

(a) Including alloys

(b) Including burnt pyrites

Ireland, Republic of

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	* 40 000 000	* 64 000 000	* 40 000 000	* 25 000 000	* 20 000 000
Crushed rock	tonnes	* 94 000 000	* 96 000 000	* 90 000 000	* 60 000 000	* 45 000 000
Alumina	tonnes (Al ₂ O ₃ content)	* 1 800 000	1 800 000	1 800 000	1 890 000	1 240 000
Cement						
Cement, finished	tonnes	* 4 900 000	* 4 700 000	* 4 700 000	* 3 910 000	* 2 640 000
Gypsum	tonnes	* 700 000	* 700 000	* 700 000	* 600 000	* 400 000
Lead, mine	tonnes (metal content)	72 200	61 800	56 800	50 200	49 500
Lead, refined	tonnes	22 500	21 700	22 500	20 000	19 000
Natural gas (a)	million m ³	570	500	519	506	414
Silver, mine	kilograms (metal content)	10 500	12 900	9 650	7 172	5 267
Zinc, mine	tonnes (metal content)	445 400	425 800	400 900	398 200	385 700

Note(s)

(a) Sales

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	62 729	230 125	85 146	255 295	40 626
Aluminium and bauxite						
Bauxite	tonnes	472	9 210	11 167	1 438	2 619
Alumina	tonnes	1 459 036	1 534 845	1 652 967	1 709 302	895 034
Alumina hydrate	tonnes	85 062	115 676	10 011	88 039	95 548
Unwrought alloys	tonnes	3 542	4 637	5 425	3 711	2 455
Scrap	tonnes	16 475	18 784	22 397	21 041	18 257
Cement						
Cement clinkers	tonnes	0	—	16 033	—	4 823
Portland cement	tonnes	942 655	972 585	1 120 808	1 144 186	1 054 533
Other cement	tonnes	10	1 489	1 596	1 512	1 317
Coal						
Anthracite	tonnes	501	3 791	30 451	...	2
Other coal	tonnes	9 800	6 382	4 395	6 158	3 861
Briquettes	tonnes	13 103	4 823	...	6 508	9 858
Cobalt						
Metal	tonnes	42	43	45	47	145
Oxides	tonnes	—	38	152	0	—
Copper						
Ores and concentrates	tonnes	3	922	1 024	49	—
Scrap	tonnes	13 152	15 784	9 836	21 421	23 305
Gold						
Metal	kilograms	£942 000	£1 400 000	£1 678 000	£1 180 000	£37 000
Waste and scrap	kilograms	£1 429 000	£1 313 000	£902 000	£577 000	£2 056 000
Gypsum						
Crude	tonnes	1 022	1 054	1 058	1 094	10 425
Calcined	tonnes	42 212	40 027	37 914	32 821	28 491
Iodine	kilograms	1 462	—	1 944	1 536	1 982
Iron, steel and ferro-alloys						
Scrap	tonnes	352 028	398 587	478 562	485 387	428 416
Lead						
Ores and concentrates	tonnes	92 813	129 748	108 645	91 728	109 877
Magnesite and magnesia						
Magnesite	tonnes	—	5 991	5 487	5 006	9 133
Magnesia	tonnes	82 417	46 656	3 981	9 912	8 595
Nickel						
Scrap	tonnes	641	1 015	556	236	220
Crude petroleum	tonnes	7	11	55 635	—	11
Natural gas	tonnes	—	642 980	5 447	—	383
Platinum metals						
Waste and scrap	kilograms	7 900	6 523	7 179	16 854	8 544

Ireland, Republic of

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Rare earths						
Rare earth compounds	tonnes	14	73	8	9	7
Salt	tonnes	1 521	2 492	3 867	8 783	735
Silver						
Ores and concentrates	kilograms	19	...	2 560	—	—
Tin						
Concentrates	tonnes	151	110	75	83	81
Unwrought (a)	tonnes	67	71	1 094	34	23
Scrap	tonnes	58	54	77	86	90
Tungsten						
Metal	tonnes	963	183	180	10	—
Zinc						
Ores and concentrates	tonnes	522 312	483 949	412 703	404 303	594 268
Scrap	tonnes	684	569	3 044	649	312

Note(s)

(a) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 444 893	1 687 279	1 729 337	1 368 008	781 470
Aluminium and bauxite						
Bauxite	tonnes	3 606 983	3 368 967	4 144 231	3 009 615	2 786 723
Alumina	tonnes	4 252	7 470	9 268	9 579	4 711
Unwrought (a)	tonnes	4 092	2 756	1 261	309	287
Arsenic						
Metallic arsenic	tonnes	158	125	137	95	...
Asbestos						
Unmanufactured	tonnes	2 794	2 700	23	3	—
Barytes	tonnes	894	293	586	229	169
Bentonite and fuller's earth						
Bentonite	tonnes	2 658	1 725	2 916	2 643	2 741
Bismuth						
Metal	tonnes	6	8	12	38	14
Cement						
Cement clinkers	tonnes	245 955	395 053	330 948	36 153	31 983
Portland cement	tonnes	335 055	559 645	664 977	780 528	192 556
Other cement	tonnes	8 958	9 079	16 409	14 649	10 698
Chromium						
Metal	tonnes	40	44	101	120	138
Coal						
Anthracite	tonnes	60 325	68 190	33 175	47 392	53 413
Other coal	tonnes	2 641 074	1 908 618	1 830 979	2 169 185	1 721 651
Briquettes	tonnes	35 959	96 279	14 271	19 049	40 482
Cobalt						
Ore	tonnes	28	35	571	36	28
Metal	tonnes	390	464	298	622	777
Oxides	tonnes	13	43	7	4	30
Copper						
Ores and concentrates	tonnes	72	...	21	30 176	42 945
Diamond						
Unsorted	carats	39 900 000	67 655 000	42 460 000	17 535 000	4 935 000
Gem, rough	carats	3 815 000	4 140 000	4 365 000	3 240 000	1 885 000
Gem, cut	carats	36 975 000	44 635 000	46 100 000	28 020 000	18 170 000
Industrial	carats	30 680 000	70 840 000	35 720 000	10 560 000	2 100 000
Dust	carats	30 924 437	200 868 966	233 626 080	232 059 616	86 782 073
Diatomite	tonnes	641	943	859	1 458	1 243
Gold						
Metal	kilograms	£7 227 000	£7 213 000	£6 260 000	£5 271 000	£4 365 000
Waste and scrap	kilograms	2 567	904	47	987	790
Graphite	tonnes	177	23	73	12	8

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Gypsum						
Crude	tonnes	1 056	2 064	7 487	1 412	15 931
Calcined	tonnes	20 024	22 500	22 676	24 877	13 930
Iodine	kilograms	11 921	9 705	10 318	21 515	24 358
Iron ore	tonnes	(b) 580	1 161	(b) 4 594	(b) 13 478	(b) 18 151
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 215	2 710	939	2 359	1 202
Ferro-alloys	tonnes	475	401	464	370	737
Ingots, blooms, billets	tonnes	1 637	7 928	8 319	5 459	5 373
Scrap	tonnes	1 137	3 650	4 179	4 206	4 388
Kaolin	tonnes	22 764	19 647	19 322	18 766	3 155
Lead						
Unwrought	tonnes	30 999	28 386	35 675	23 480	15 784
Scrap	tonnes	28 530	31 794	25 828	17 702	16 689
Magnesite and magnesia						
Magnesite	tonnes	12 653	1 967	5 971	4 385	4 191
Magnesia	tonnes	49 466	35 800	48 088	42 999	22 523
Manganese						
Ores and concentrates (c)	tonnes	285	368	286	75	65
Metal	tonnes	5	15	118	7	6
Mercury	kilograms	72	11 804	1 019	979	1 182
Mica	tonnes	889	650	508	291	43
Nickel						
Unwrought (a)	tonnes	1 775	1 256	97	1 118	626
Crude petroleum	tonnes	3 226 383	3 082 372	3 595 537	2 878 397	2 792 968
Natural gas	tonnes	2 383 218	1 946 640	3 838 104	4 364 595	4 192 236
Phosphate rock	tonnes	219	154	6 028	3 425	85
Platinum metals						
Platinum and platinum metals	kilograms	4 934	3 999	10 425	2 185	121 428
Potash						
Chloride	tonnes	113 476	125 803	122 191	97 056	29 932
Other potassic fertilisers	tonnes	5 747	4 566	1 785	4 347	3 390
Rare earths						
Rare earth compounds	tonnes	32	7	23	21	67
Salt	tonnes	83 746	96 164	89 236	105 636	114 659
Silver						
Ores and concentrates	kilograms	...	18 974	1 270	385	41
Metal	kilograms	2 611	5 147	1 045	29 530	5 320
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	2 327	2 486	887	305	74
Talc	tonnes	2 632	1 278	375	473	1 722
Tin						
Unwrought (a)	tonnes	307	211	249	389	100
Titanium						
Metal	tonnes	290	350	362	1 154	507
Oxides	tonnes	5 059	4 703	4 822	3 961	4 308
Tungsten						
Metal	tonnes	292	173	277	215	68
Carbide	tonnes	...	53	184	158	108
Zinc						
Unwrought (a)	tonnes	3 629	7 010	7 687	5 185	2 210
Zirconium						
Concentrates	tonnes	248	258	425	3 976	1 323

Note(s)

(a) Including alloys

(b) Including burnt pyrites

(c) Including manganiferous iron ore

Italy

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel (a)	tonnes	183 908 475	185 382 004	170 071 749	174 779 712	164 218 753
Crushed rock (a)	tonnes	69 164 106	91 397 876	97 463 072	91 373 378	84 717 579
Alumina	tonnes (Al ₂ O ₃ content)	1 070 000	1 090 000	1 327 000	1 045 000	92 000
Primary aluminium	tonnes	192 900	194 200	179 500	186 400	165 800
Barytes	tonnes	7 312	* 7 000	* 7 000	* 7 000	* 7 000
Bentonite and fuller's earth						
Bentonite	tonnes	445 573	469 654	599 735	281 119	146 318
Cement						
Cement clinker	tonnes	...	...	...	...	(a) 25 028 774
Cement, finished	tonnes	46 400 000	47 400 000	46 700 000	43 000 000	43 000 000
Copper, refined	tonnes	32 200	36 400	28 600	24 200	6 500
Feldspar	tonnes	3 995 233	4 600 903	3 524 389	* 5 000 000	* 5 000 000
Fluorspar	tonnes	70 326	* 15 000	—	—	—
Gypsum	tonnes	* 1 600 000	1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Pig iron	tonnes	11 392 000	11 500 000	11 100 000	10 400 000	5 670 000
Crude steel	tonnes	29 349 000	31 624 000	31 506 000	30 589 000	19 847 000
Ferro-alloys						
Ferro-manganese	tonnes	32 000	* 30 000	* 30 000	* 30 000	* 20 000
Ferro-silico-manganese	tonnes	99 000	96 600	87 000	87 000	56 000
Kaolin	tonnes	183 804	* 180 000	* 180 000	* 180 000	* 180 000
Lead, mine	tonnes (metal content)	* 6 000	* 6 000	* 3 000	* 3 000	* 3 000
Lead, refined	tonnes	211 000	190 500	211 800	199 900	149 000
Manganese ore	tonnes	632	...	...	...	...
Perlite	tonnes	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Crude petroleum	tonnes	6 100 000	5 800 000	5 800 000	5 200 000	4 600 000
Natural gas	million m ³	11 977	11 000	9 700	9 300	7 900
Salt						
Rock salt and brine	tonnes	3 475 734	2 823 960	2 214 133	2 334 315	3 471 206
Silver, mine	kilograms (metal content)	100	—	—	—	—
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	92 000	87 000	84 000	82 000	79 000
Recovered (c)	tonnes (sulphur content)	650 000	680 000	650 000	645 000	625 000
Talc	tonnes	140 581	130 714	117 643	* 110 000	* 110 000
Slab Zinc	tonnes	121 200	109 200	102 100	107 100	103 400

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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 734 620	1 720 142	1 482 346	1 522 229	1 308 016
Aluminium and bauxite						
Bauxite	tonnes	121 029	12 082	49 989	26 718	4 585
Alumina	tonnes	651 704	748 594	696 603	571 090	61 223
Alumina hydrate	tonnes	26 652	26 668	34 521	35 538	1 243
Unwrought	tonnes	8 742	20 315	18 971	18 249	30 019
Unwrought alloys	tonnes	57 573	73 137	104 361	96 798	122 294
Scrap	tonnes	35 904	50 024	42 052	56 214	82 055
Antimony						
Ores and concentrates	tonnes	274	250	355	386	566
Oxide	tonnes	94	254	237	569	391
Arsenic						
Metallic arsenic	tonnes	16	2	—	—	—

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Asbestos						
Unmanufactured	tonnes	20	5	29	—	...
Barytes	tonnes	505	1 000	2 239	1 238	2 890
Bentonite and fuller's earth						
Bentonite	tonnes	245 515	272 438	296 809	293 417	186 219
Bismuth						
Metal	tonnes	2	1	1	38	5
Bromine	kilograms	1 000	228 287	55 156	1 000	43
Cadmium						
Metal	tonnes	18	1	796	1 633	2 030
Cement						
Cement clinkers	tonnes	19 427	61 437	143 235	38 106	5 280
Portland cement	tonnes	2 379 941	2 091 427	2 143 940	2 094 130	1 637 605
Other cement	tonnes	130 120	660 595	536 324	491 150	469 636
Chromium						
Ores and concentrates	tonnes	4 673	5 446	3 980	2 567	1 762
Metal	tonnes	1 070	111	1 666	166	29
Coal						
Hard coal (a)	tonnes	66 115	38 239	41 075	31 201	29 473
Cobalt						
Metal	tonnes	97	224	168	220	205
Oxides	tonnes	63	77	223	235	141
Copper						
Matte and cement	tonnes	107	1 511	2 244	911	90
Unwrought	tonnes	6 387	13 567	22 424	13 381	30 548
Scrap	tonnes	110 711	102 463	120 231	148 923	158 062
Unwrought alloys	tonnes	14 128	14 620	20 830	15 268	12 787
Diamond						
Gem, cut	carats	119 462	105 514	131 174	1 830 000	1 480 000
Dust	carats	49 139 151	18 028 081	65 975 744	10 865 000	1 370 000
Diatomite	tonnes	1 138	1 110	3 884	9 991	10 392
Feldspar	tonnes	302 715	238 555	226 963	324 977	126 289
Fluorspar	tonnes	28 699	16 710	19 281	31 271	9 518
Gold						
Metal	kilograms	60 480	55 847	56 360	51 260	106 646
Waste and scrap	kilograms	—	16	160	1 376	173
Graphite	tonnes	274	442	401	308	820
Gypsum						
Crude	tonnes	12 641	141	17 748	24 525	17 907
Calcined	tonnes	41 404	69 272	27 123	24 496	21 848
Iodine	kilograms	14 499	7 067	2 613	2 119	86 917
Iron ore						
Iron ore	tonnes	365	18 929	7 026	1 598	313
Burnt pyrites	tonnes	9 410	4 407	1 544	101	41
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 740	22 114	50 789	36 137	61 761
Sponge and powder	tonnes	163	194	1 097	615	452
Ferro-chrome	tonnes	3 753	8 276	5 411	4 593	2 066
Ferro-silico-magnesium	tonnes	30	93	2 061	1 681	673
Ferro-manganese	tonnes	10 380	8 670	14 562	12 890	7 457
Ferro-silico-manganese	tonnes	3 511	4 086	7 048	6 882	4 322
Ferro-molybdenum	tonnes	90	174	68	277	1 266
Ferro-nickel	tonnes	3 967	173	239	123	418
Ferro-silicon	tonnes	5 035	4 457	7 113	7 094	6 395
Other ferro-alloys	tonnes	996	1 986	84	95	68
Silicon metal	tonnes	3 931	3 304	4 576	6 007	3 200
Ingots, blooms, billets	tonnes	698 402	958 626	983 369	964 245	570 380
Scrap	tonnes	185 688	190 139	240 735	387 528	325 026
Kaolin	tonnes	40 800	17 287	16 265	13 627	21 392
Lead						
Unwrought	tonnes	18 244	8 143	8 008	34 904	23 006
Scrap	tonnes	2 477	3 806	7 661	6 897	7 594
Lithium						
Carbonate	tonnes	269	347	225	193	145
Magnesite and magnesia						
Magnesite	tonnes	3 489	3 003	3 878	2 337	1 945
Magnesia	tonnes	12 130	12 174	9 036	8 172	5 873

Italy

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Manganese						
Metal	tonnes	241	298	309	494	326
Mercury	kilograms	18 244	14 820	125 946	84 247	89 228
Mica	tonnes	738	1 159	1 429	3 211	857
Molybdenum						
Ores and concentrates	tonnes	246	29	311	159	205
Metal	tonnes	132	639	221	873	488
Oxides	tonnes	47	107	185	604	982
Nickel						
Unwrought (b)	tonnes	1 720	799	1 272	972	1 293
Scrap	tonnes	1 923	448	724	658	541
Crude petroleum	tonnes	986 121	937 813	1 442 498	1 195 500	619 630
Natural gas	tonnes	649 706	331 234	585 818	1 749 247	1 620 776
Phosphate rock	tonnes	4 883	6 789	7 800	7 661	6 416
Platinum metals						
Platinum	kilograms	6 555	9 542	11 783	13 350	10 043
Platinum metals	kilograms	6 039	6 951	5 828	8 295	8 898
Waste and scrap	kilograms	206	1 065	94 988	257	311
Potash						
Potassic fertilisers	tonnes	1 270	2 194	5 572	6 345	12 725
Rare earths						
Rare earth compounds	tonnes	13	43	38	153	167
Metals	tonnes	168	56	177	112	78
Salt	tonnes	317 124	361 602	212 223	322 221	558 441
Silver						
Metal	kilograms	564 308	516 281	547 042	519 148	383 782
Sulphur and pyrites						
Pyrites	tonnes	4 763	8 646	8 024	10 071	6 005
Sulphur	tonnes	225 403	290 353	263 362	219 095	256 614
Sulphur, sublimed and precipitated	tonnes	2 159	36 881	39 061	4 693	21 430
Talc	tonnes	120 920	122 148	131 071	114 017	124 212
Tin						
Unwrought (b)	tonnes	503	437	567	392	411
Scrap	tonnes	17	269	204	249	154
Titanium						
Titanium slag	tonnes	1 499	...	...	...	...
Metal	tonnes	4 130	4 101	4 884	5 478	3 607
Oxides	tonnes	25 433	22 473	26 242	25 982	23 508
Tungsten						
Metal	tonnes	233	197	455	973	670
Vanadium						
Ores and concentrates	tonnes	1 092	1 291	527	217	385
Zinc						
Ores and concentrates	tonnes	96 439	114 339	105 437	99 121	48 051
Unwrought	tonnes	9 230	37 659	21 048	7 967	5 258
Unwrought alloys	tonnes	2 854	7 792	6 689	2 857	3 491
Scrap	tonnes	13 652	12 934	13 574	8 603	12 334
Zirconium						
Concentrates	tonnes	21 760	23 472	25 596	41 296	33 219
Metal	tonnes	455	260	630	233	274

Note(s)

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	4 331 596	4 655 740	4 967 745	4 139 144	3 654 570
Aluminium and bauxite						
Bauxite	tonnes	2 602 224	2 618 296	2 374 609	2 417 499	36 975
Alumina	tonnes	147 537	137 469	148 384	144 473	88 864
Alumina hydrate	tonnes	155 718	156 231	166 453	143 217	142 005
Unwrought	tonnes	426 721	481 919	534 385	445 882	284 779
Unwrought alloys	tonnes	463 411	504 142	545 052	436 207	310 560
Scrap	tonnes	326 901	366 623	432 780	377 441	268 836
Antimony						
Ores and concentrates	tonnes	1 005	829	851	1 171	935
Metal	tonnes	164	279	399	300	198
Oxide	tonnes	5 543	6 061	5 950	6 168	4 602
Arsenic						
Metallic arsenic	tonnes	54	52	64	43	45
Barytes	tonnes	84 178	84 398	89 745	102 684	51 615
Bentonite and fuller's earth						
Bentonite	tonnes	138 973	121 697	155 568	136 417	96 698
Fuller's earth	tonnes	7 893	8 208	...	...	...
Bismuth						
Metal	tonnes	203	251	316	269	152
Bromine	kilograms	281 000	522 069	374 426	598 800	958 588
Cadmium						
Metal	tonnes	72	30	40	49	43
Oxide	tonnes	55	...	1	3	3
Cement						
Cement clinkers	tonnes	2 828 906	2 872 114	2 827 333	2 095 716	1 495 609
Portland cement	tonnes	2 014 905	1 564 049	1 162 254	962 746	1 433 820
Other cement	tonnes	152 325	184 862	287 190	295 988	308 222
Chromium						
Ores and concentrates	tonnes	39 999	41 992	46 433	36 552	23 842
Metal	tonnes	958	830	891	742	850
Coal						
Anthracite	tonnes	369 840	282 831	406 331	490 757	210 384
Other coal	tonnes	24 714 768	24 860 362	25 111 043	25 745 375	20 165 036
Briquettes	tonnes	9 136	10 207	6 921	5 392	7 786
Cobalt						
Metal	tonnes	468	587	626	703	632
Oxides	tonnes	1 128	1 161	1 682	561	473
Copper						
Unwrought, unrefined	tonnes	955	323	796	370	438
Unwrought, refined	tonnes	652 089	774 140	746 482	617 420	544 197
Unwrought alloys	tonnes	8 053	15 174	24 996	18 531	8 166
Scrap	tonnes	124 737	214 289	177 546	167 212	91 519
Diamond						
Unsorted	carats	350 000	150 000	915 000	1 905 000	355 000
Gem, rough	carats	115 000	75 000	80 000	10 000	25 000
Gem, cut	carats	11 760 000	4 855 000	14 560 000	12 135 000	9 875 000
Industrial	carats	1 110 000	650 000	880 000	1 145 000	675 000
Dust	carats	141 970 000	152 680 000	161 010 000	252 290 000	121 055 000
Diatomite	tonnes	9 141	5 179	4 487	3 939	2 497
Feldspar	tonnes	2 623 428	2 603 981	2 573 637	2 511 704	1 570 345
Fluorspar	tonnes	249 756	237 597	236 797	238 008	212 415
Gold						
Metal	kilograms	250 938	204 012	206 914	166 506	146 721
Waste and scrap	kilograms	904	810	17 885	851	864
Graphite	tonnes	11 102	11 548	11 362	11 832	5 995
Gypsum						
Crude	tonnes	6 134	5 285	6 814	21 411	5 754
Calcined	tonnes	22 076	20 028	21 088	19 621	16 645
Iodine	kilograms	854 831	1 033 737	1 231 082	1 343 977	1 256 232
Iron ore	tonnes	17 551 785	(a) 17 776 812	17 013 076	16 313 184	8 159 741

Italy

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 729 086	1 791 165	2 235 376	2 238 037	895 818
Sponge and powder	tonnes	424 810	468 825	465 834	396 660	174 364
Ferro-chrome	tonnes	428 716	464 364	419 392	389 002	296 813
Ferro-silico-magnesium	tonnes	5 409	6 809	16 751	15 716	6 026
Ferro-manganese	tonnes	84 920	95 010	108 976	96 771	46 537
Ferro-silico-manganese	tonnes	174 391	216 632	229 755	186 135	119 670
Ferro-molybdenum	tonnes	7 294	7 469	7 433	8 318	3 998
Ferro-nickel	tonnes	141 603	129 870	91 651	104 198	78 383
Ferro-niobium	tonnes	2 457	2 194	2 783	2 733	1 395
Ferro-phosphorus	tonnes	987	547	721	488	550
Ferro-silicon	tonnes	141 789	147 121	154 797	122 236	89 909
Ferro-titanium and ferro-silico-titanium	tonnes	3 978	3 922	4 230	3 861	4 462
Ferro-tungsten and ferro-silico-tungsten	tonnes	208	307	385	578	300
Ferro-vanadium	tonnes	1 945	1 839	2 521	2 445	1 158
Other ferro-alloys	tonnes	11 799	9 727	1	243	—
Silicon metal	tonnes	49 129	51 696	57 854	57 493	27 402
Ingots, blooms, billets	tonnes	4 310 404	5 792 203	5 991 974	5 311 325	2 655 726
Scrap	tonnes	5 367 259	5 668 405	5 242 020	5 705 462	3 321 387
Kaolin	tonnes	956 948	978 378	881 968	810 560	505 593
Lead						
Ores and concentrates	tonnes	107 685	65 610	111 999	85 760	29 210
Unwrought	tonnes	72 181	112 069	114 471	99 015	86 054
Scrap	tonnes	3 333	4 097	7 107	2 972	2 031
Lithium						
Oxides	tonnes	223	159	160	246	96
Carbonate	tonnes	2 263	1 646	1 303	1 519	1 185
Magnesite and magnesia						
Magnesite	tonnes	23 536	10 862	10 240	18 347	9 375
Magnesia	tonnes	161 432	174 000	131 140	150 098	93 262
Manganese						
Ores and concentrates (b)	tonnes	76 278	72 465	113 300	114 289	77 075
Metal	tonnes	8 494	35 391	7 100	5 839	3 709
Mercury	kilograms	32 471	49 335	9 491	21 754	19 992
Mica						
Unmanufactured	tonnes	118	158	189	106	417
Ground	tonnes	3 405	3 657	4 803	3 980	2 597
Molybdenum						
Ores and concentrates	tonnes	5 109	5 552	5 901	6 220	6 703
Metal	tonnes	203	189	215	254	171
Oxides	tonnes	117	229	183	125	176
Nickel						
Mattes, sinters etc	tonnes	32	1 550	1	1	93
Scrap	tonnes	5 119	1 606	1 372	892	763
Unwrought	tonnes	37 708	48 178	41 802	42 339	25 833
Unwrought alloys	tonnes	1 455	3 918	1 613	2 164	2 841
Crude petroleum	tonnes	89 007 151	86 807 240	89 130 022	82 998 642	76 301 866
Natural gas	tonnes	39 034 000	42 870 000	71 491 000	36 489 000	52 879 546
Phosphate rock	tonnes	279 693	242 633	249 847	248 005	89 245
Platinum metals						
Platinum	kilograms	15 586	17 279	20 491	16 570	13 627
Palladium	kilograms	16 178	15 943	18 880	20 593	13 047
Other Platinum metals	kilograms	3 005	3 077	1 811	2 426	1 909
Waste and scrap	kilograms	2 085	431	447	7 646	8 178
Potash						
Sulphate	tonnes	96 415	91 061	90 992	78 513	31 910
Chloride	tonnes	334 324	302 115	396 162	346 465	144 086
Other potassic fertilisers	tonnes	13 203	17 583	15 929	9 882	3 413
Rare earths						
Cerium compounds	tonnes	651	540	694	710	414
Other rare earth compounds	tonnes	336	313	452	431	258
Ferro-cerium and other pyrophoric alloys	tonnes	17	1	2	2	5
Metals	tonnes	38	58	149	144	87
Salt	tonnes	773 507	863 836	611 435	572 965	902 241
Sillimanite minerals	tonnes	27 476	26 304	24 807	30 616	45 172

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Silver						
Ores and concentrates	kilograms	2 378	67 952	1 002	—	15
Metal	kilograms	1 635 765	1 583 508	1 445 303	1 167 457	881 205
Sulphur and pyrites						
Pyrites	tonnes	15 548	17 741	14 879	20 984	228
Sulphur	tonnes	13 647	11 691	16 271	48 618	13 305
Sulphur, sublimed and precipitated	tonnes	328	375	414	2 711	3 617
Talc	tonnes	125 913	129 218	140 461	147 549	78 506
Tin						
Concentrates	tonnes	24	572	65	—	3
Unwrought	tonnes	5 899	5 526	4 113	4 124	2 652
Unwrought alloys	tonnes	135	392	504	777	360
Titanium						
Titanium minerals	tonnes	85 607	185 121	136 274	102 909	74 338
Metal	tonnes	5 186	6 248	8 609	7 155	3 352
Oxides	tonnes	154 950	161 253	166 223	141 959	139 071
Tungsten						
Metal	tonnes	257	236	280	255	147
Carbide	tonnes	337	365	361	350	103
Vanadium						
Ores and concentrates	tonnes	...	75	...	255	18
Pentoxide	tonnes	156	209	150	173	45
Zinc						
Ores and concentrates	tonnes	219 491	175 253	195 798	161 838	155 028
Unwrought	tonnes	261 192	229 040	314 714	179 691	118 424
Unwrought alloys	tonnes	34 929	42 768	51 514	81 350	22 194
Scrap	tonnes	14 172	18 541	21 599	15 369	15 315
Zirconium						
Concentrates	tonnes	147 435	143 672	114 838	129 999	53 845
Metal	tonnes	120	128	315	130	226

Note(s)

(a) Including burnt pyrites

(b) Including manganiferous iron ore

Latvia

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	6 059 487	5 957 744	9 998 863	8 905 937	6 507 487
Crushed rock	tonnes	586 607	582 081	937 030	1 413 395	815 712
Cement						
Cement, finished	tonnes	* 280 000	* 280 000	* 300 000	* 310 000	* 300 000
Gypsum (a)	tonnes	273 000	330 000	346 000	349 000	175 000
Crude steel	tonnes	550 000	* 690 000	* 696 000	* 635 000	* 692 000

Note(s)

(a) Including anhydrite

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	13 178	11 618	32 783	54 321	121 260
Aluminium and bauxite						
Unwrought alloys	tonnes	34 697	18 180	19 281	17 012	11 772
Scrap	tonnes	910	1 767	2 416	4 203	4 419
Cement						
Cement clinkers	tonnes	184	326	35 307	—	2 382
Portland cement	tonnes	10 762	5 528	43 951	240 311	147 960
Other cement	tonnes	1	141	10 178	20	126
Copper						
Unwrought	tonnes	503	2 734	3 272	4 117	2 518
Scrap	tonnes	9 207	7 116	7 309	6 900	6 138
Gypsum						
Crude and calcined	tonnes	48 896	109 404	74 627	63 732	37 352
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	667	2 626	4 371	4 010	2 323
Scrap	tonnes	217 361	313 455	245 958	388 456	213 766
Nickel						
Unwrought alloys	tonnes	...	...	...	2	165
Scrap	tonnes	538	116	49	199	3 301
Crude petroleum	tonnes	6 085	12 099	—	...	93
Platinum metals						
Waste and scrap	kilograms	1 002	468	219	181	—
Potash						
Chloride	tonnes	2 321	117	250	970	0
Salt	tonnes	10 205	14 485	14 282	13 741	15 919
Tin						
Scrap	tonnes	20	307	—	—	...
Zinc						
Scrap	tonnes	629	750	757	443	975

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 320 287	1 412 127	1 663 783	2 033 701	565 877
Aluminium and bauxite						
Unwrought (a)	tonnes	1 810	577	154	21	592
Scrap	tonnes	16 970	6 505	6 837	7 677	5 974
Bentonite and fuller's earth						
Bentonite	tonnes	1 629	1 544	1 850	2 628	2 148
Cement						
Cement clinkers	tonnes	38 589	43 774	29 438	30 233	34 375
Portland cement	tonnes	234 862	322 187	431 482	353 174	87 660
Coal						
Hard coal (b)	tonnes	115 720	159 787	153 806	169 211	136 277
Copper						
Unwrought	tonnes	606	1 199	1 396	3 609	3 049
Diatomite	tonnes	389	467	545	681	534
Fluorspar	tonnes	216	204	220	240	468
Gypsum						
Crude and calcined	tonnes	3 563	9 960	13 670	5 818	1 920
Iron ore	tonnes	...	3 919	46 109	44 607	2 393
Iron, steel and ferro-alloys						
Pig iron	tonnes	54 639	57 696	65 437	56 964	38 140
Sponge and powder	tonnes	350	112	131	19	14 931
Ferro-chrome (c)	tonnes	* 3	* 3	* 20	* 130	* 9 050
Ferro-manganese	tonnes	3 119	3 281	3 021	10 334	2 345
Ferro-silico-manganese	tonnes	5 024	5 628	14 947	23 477	14 722
Ferro-silicon	tonnes	3 876	2 550	3 086	18 466	15 085
Other ferro-alloys	tonnes	201	416	372	132	415
Silicon metal	tonnes	1 711	1 409	656	467	783
Ingots, blooms, billets	tonnes	206 550	145 037	158 649	146 505	226 967
Scrap	tonnes	161 538	266 616	294 904	412 240	214 564
Kaolin	tonnes	5 016	5 422	11 071	11 173	7 476
Magnesite and magnesia						
Magnesia	tonnes	3 343	4 092	4 678	5 355	2 827
Natural gas	tonnes	1 153 086	1 201 960	1 158 965	1 138 776	1 047 240
Platinum metals						
Waste and scrap	kilograms	...	...	1 900	2 900	12 000
Potash						
Chloride	tonnes	19 361	9 489	8 875	10 845	—
Other potassic fertilisers	tonnes	1 982	132	312	111	102
Salt	tonnes	139 662	149 696	123 316	144 424	151 529
Silver						
Metal	kilograms	189 912	16	1 450	1 174	556
Sulphur and pyrites						
Sulphur	tonnes	6	7	8	9	12 488
Talc	tonnes	105	217	396	417	314
Titanium						
Oxides	tonnes	726	833	781	3 112	562
Zinc						
Unwrought (a)	tonnes	654	953	664	1 256	830

Note(s)

(a) Including alloys

(b) Including anthracite

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

Lithuania

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	7 034 402	7 633 311	9 181 552	9 469 411	5 029 476
Crushed rock	tonnes	4 757 023	5 259 535	6 424 791	6 913 160	2 849 122
Cement						
Cement clinker	tonnes	...	...	...	—	233 292
Cement, finished	tonnes	832 076	1 065 367	1 105 365	1 075 581	583 067
Crude petroleum	tonnes	216 634	180 894	154 449	127 658	114 956
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	74 276	61 135	42 618	73 870	69 722

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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	957 488	871 522	1 053 802	943 673	163 850
Aluminium and bauxite						
Unwrought alloys	tonnes	3 922	3 410	3 453	3 994	2 614
Scrap	tonnes	7 210	5 640	5 701	5 280	4 796
Bentonite and fuller's earth						
Bentonite	tonnes	26	2 491	5 457	1 929	266
Cement						
Portland cement	tonnes	299 782	246 350	154 649	204 951	170 273
Other cement	tonnes	10	16	893	1 531	491
Chromium						
Ores and concentrates	tonnes	948	2 213	1 156	240	78
Coal						
Hard coal	tonnes	...	499	4 599	7 685	10 915
Copper						
Scrap	tonnes	5 821	5 020	4 814	4 675	3 375
Iodine	kilograms	33	4 800	20	3	—
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	13 293	17 952	15 437	11 188	3 093
Scrap	tonnes	599 084	681 692	661 349	659 646	422 436
Lead						
Scrap	tonnes	7 848	6 118	11 776	9 730	4 210
Magnesite and magnesia						
Magnesia	tonnes	...	8	26	...	537
Molybdenum						
Ores and concentrates	tonnes	310	...	173	186	...
Nickel						
Scrap	tonnes	411	674	232	131	85
Crude petroleum	tonnes	148 031	115 075	155 416	128 838	113 172
Phosphate rock	tonnes	150	1 406	2 011	140	—
Platinum metals						
Waste and scrap	kilograms	...	16	404	62 710	101 900
Potash						
Potassic fertilisers	tonnes	10 463	8 939	5 752	2 846	18 714
Rare earths						
Cerium compounds	tonnes	1	3	4	3	8
Salt	tonnes	5 895	7 150	6 761	6 063	5 437
Silver						
Metal	kilograms	245	300	...	600	200
Sulphur and pyrites						
Sulphur	tonnes	3 851	1	7	1 517	14 038
Tantalum and niobium						
Tantalum	tonnes	5	5	48	31	11

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Titanium						
Oxides	tonnes	141	208	268	1 230	502
Vanadium						
Ores and concentrates	tonnes	...	...	346	358	...
Zinc						
Scrap	tonnes	685	976	517	232	553

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 289 117	1 214 058	1 333 772	1 301 091	695 973
Aluminium and bauxite						
Bauxite	tonnes	...	...	1	...	6 922
Alumina	tonnes	13 079	11 176	13 304	10 282	1 815
Scrap	tonnes	1 841	1 964	3 380	1 887	888
Antimony						
Oxide	tonnes	6	36	61	110	117
Bentonite and fuller's earth						
Bentonite	tonnes	2 675	2 838	3 105	3 068	3 368
Cement						
Cement clinkers	tonnes	766	416	104 219	79 102	996
Portland cement	tonnes	265 103	209 400	170 955	111 578	133 039
Coal						
Hard coal (a)	tonnes	290 058	391 032	356 342	382 695	215 439
Diatomite	tonnes	520	504	1 178	763	836
Feldspar	tonnes	4 166	1 933	1 693	1 516	2 958
Gold						
Waste and scrap	kilograms	114 600	12 470	2	—	103
Gypsum						
Crude	tonnes	58 859	71 649	78 185	90 320	28 754
Calcined	tonnes	20 990	36 588	47 112	43 127	19 974
Iodine	kilograms	6 929	5 023	470	383	4 510
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	5 210	6 140	9 705	9 634	2 842
Ferro-silico-manganese	tonnes	3 153	6 864	5 983	...	...
Other ferro-alloys	tonnes	3 047	1 413	437	457	114
Ingots, blooms, billets	tonnes	4 279	5 260	6 011	9 661	1 229
Scrap	tonnes	74 816	103 878	64 661	64 462	29 805
Kaolin	tonnes	802	1 399	568	607	159
Lead						
Scrap	tonnes	...	119	368	162	3 301
Magnesite and magnesia						
Magnesia	tonnes	5 398	5 513	6 501	5 196	855
Mica	tonnes	124	122	53	92	43
Crude petroleum	tonnes	9 746 806	7 994 367	4 869 858	9 325 904	8 413 067
Natural gas	tonnes	2 071 091	2 129 513	2 414 798	2 246 642	1 761 529
Phosphate rock	tonnes	1 178 816	1 193 093	1 202 196	1 209 385	1 162 070
Platinum metals						
Waste and scrap	kilograms	5 403	26 700	65 900	40 800	22 700
Potash						
Sulphate	tonnes	12 086	10 439	15 637	10 971	2 617
Chloride	tonnes	123 782	143 499	138 895	107 749	6 631
Other potassic fertilisers	tonnes	236	6 200	190	487	87
Rare earths						
Rare earth compounds	tonnes	34	52	3	8	3
Salt	tonnes	198 994	197 262	171 915	166 505	159 534
Silver						
Metal	kilograms	3 943	4 500	5 200	6 900	5 800
Sulphur and pyrites						
Sulphur	tonnes	306 635	320 658	317 678	293 365	319 353
Sulphur, sublimed and precipitated	tonnes	560	607	0	404	18
Talc	tonnes	402	463	511	388	225

Lithuania

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Tantalum and niobium						
Tantalum	tonnes	10	11	47	38	24
Titanium						
Oxides	tonnes	926	975	1 328	980	1 259
Zinc						
Unwrought (b)	tonnes	547	1 554	627	563	190

Note(s)

(a) Including anthracite

(b) Including alloys

Macedonia

Production

Commodity	Units	2005	2006	2007	2008	2009
Bentonite and fuller's earth						
Bentonite	tonnes	14 958	20 353	22 509	13 689	9 033
Coal						
Lignite	tonnes	6 879 726	6 650 182	6 569 220	7 669 103	7 395 915
Copper, mine	tonnes (metal content)	4 799	7 054	7 029	8 051	7 440
Feldspar	tonnes	27 076	38 124	32 814	28 920	19 377
Gypsum	tonnes	190 232	267 760	255 500	242 400	154 550
Crude steel	tonnes	321 170	326 484	370 317	344 866	299 332
Ferro-alloys						
Ferro-nickel	tonnes	8 141	10 942	15 321	15 026	12 000
Ferro-silicon	tonnes	71 249	59 023	78 892	97 605	7 657
Lead, mine	tonnes (metal content)	—	11 531	36 039	49 877	46 788
Nickel, mine	tonnes (metal content)	7 800	10 900	15 000	15 000	12 000
Nickel, smelter/refinery	tonnes	8 141	10 942	15 000	15 000	12 000
Silver, mine	kilograms (metal content)	—	* 10 000	* 30 000	* 40 000	* 35 000
Talc	tonnes	1 955	1 025	1 775	977	—
Zinc, mine	tonnes (metal content)	—	10 836	30 957	38 737	38 648

Exports

Commodity	Units	2005	2006	2007	2008	2009
Aluminium and bauxite						
Scrap	tonnes	2 105	2 788	1 795	2 043	1 514
Bentonite and fuller's earth						
Bentonite	tonnes	4 346	4 747	4 181	5 201	3 716
Cement						
Cement clinkers	tonnes	129 570	151 663	90 869	173 089	5 638
Portland cement	tonnes	207 457	220 588	308 468	281 782	2 305
Chromium						
Ores and concentrates	tonnes	46	...	1 835	160	...
Copper						
Ores and concentrates	tonnes	21 441	31 547	32 224	...	...
Scrap	tonnes	1 926	3 190	2 277	2 302	2 029
Feldspar	tonnes	22 369	36 539	28 766	23 762	18 457
Gypsum						
Crude and calcined	tonnes	9 779	9 488	10 167	12 496	12 604
Iron, steel and ferro-alloys						
Ferro-silico-manganese	tonnes	1 673	6 682	48 258	...	10 938
Ferro-nickel	tonnes	34 419	45 058	71 189	...	...
Ferro-silicon	tonnes	74 450	62 794	30 139	...	16 621
Scrap	tonnes	85 745	98 763	124 200	104 326	59 407
Lead						
Ores and concentrates	tonnes	233	16 371	47 209	...	...
Unwrought	tonnes	54	—	70	184	1 271
Scrap	tonnes	935	2 511	2 622	2 209	226
Manganese						
Ores and concentrates	tonnes	...	5 117	...	6 314	...
Phosphate rock	tonnes	3 388	1 944	2 050	1 685	1 233
Potash						
Potassic fertilisers	tonnes	1 102	3	—	2	—
Salt	tonnes	2 677	4 508	5 091	3 255	3 616
Silver						
Metal	kilograms	500	...	71	26	10
Talc	tonnes	789	735	1 124	509	528
Zinc						
Ores and concentrates	tonnes	3 306	23 106	58 973	...	69 509
Scrap	tonnes	720	719	874	576	479

Imports

Commodity	Units	2005	2006	2007	2008	2009
Aluminium and bauxite						
Alumina	tonnes	82	412	1 476	1 225	425
Unwrought (a)	tonnes	1 610	2 941	3 930	3 446	2 164
Scrap	tonnes	492	496	663	485	1 341
Cement						
Portland cement	tonnes	59 679	44 542	69 220	136 030	193 076
Chromium						
Ores and concentrates	tonnes	3	709	1 432	306	495
Coal						
Hard coal (b)	tonnes	98 024	179 193	199 946	214 078	85 660
Briquettes	tonnes	188 634	103 508	63 805	56 640	9 207
Fluorspar	tonnes	92	218	380	300	457
Graphite	tonnes	107	648	1 969	1 522	761
Gypsum						
Crude and calcined	tonnes	1 165	1 106	1 080	976	948
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 970	3 781	2 467	2 609	1 732
Ferro-alloys	tonnes	2 786	2 860	3 737	3 402	1 618
Ingots, blooms, billets	tonnes	226 286	359 029	501 134	482 294	157 566
Scrap	tonnes	264 067	277 360	310 410	255 543	7 375
Kaolin	tonnes	19 414	9 797	16 849	12 259	4 879
Lead						
Unwrought	tonnes	1 146	857	331	19	38
Magnesite and magnesia	tonnes	1 384	5 047	18 863	13 956	10 113
Manganese						
Ores and concentrates	tonnes	28 977	44 040	143 556	170 455	...
Nickel						
Ores and concentrates	tonnes	236 025	466 623	863 999	789 929	...
Crude petroleum	tonnes	950 742	1 081 738	1 063 614	1 057 671	...
Natural gas	tonnes	52 416	56 876	63 225	86 823	53 192
Salt	tonnes	39 178	40 184	35 657	37 575	39 232
Silver						
Metal	kilograms	3 813	3 901	3 612	3 807	2 229
Titanium						
Oxides	tonnes	466	471	383	426	427
Zinc						
Unwrought (a)	tonnes	3 750	15 658	6 721	4 954	4 147

Note(s)

(a) Including alloys

(b) Including anthracite

Malta

Exports

Commodity	Units	2005	2006	2007	2008	2009
Aluminium and bauxite						
Scrap	tonnes	1 142	1 221	1 136	1 441	1 361
Asbestos						
Unmanufactured	tonnes	65	16	...	...	...
Copper						
Scrap	tonnes	1 242	1 036	1 790	1 890	1 828
Iron and Steel						
Scrap	tonnes	5 252	19 012	28 083	25 379	27 775
Iron, steel and ferro-alloys						
Scrap	tonnes	5 252	19 012	28 083	25 379	27 775
Tin						
Scrap	tonnes	9	373	340	250	...

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	4 529	11 666	29 929	25 817	47 363
Cement						
Portland cement	tonnes	316 012	389 690	356 365	374 392	328 411
Other cement	tonnes	181	1 518	2 949	1 498	1 552
Gold						
Metal	kilograms	7 258	7 900	9 034	6 820	5 500
Gypsum						
Crude and calcined	tonnes	5 981	7 549	6 309	5 505	2 305
Mica	tonnes	33	61	39	48	196
Rare earths						
Metals	tonnes	...	...	...	...	12
Salt	tonnes	5 453	1 629	3 590	3 794	1 364
Silver						
Metal	kilograms	188	1 800	600	5 300	30 400
Talc	tonnes	302	271	179	295	263
Titanium						
Oxides	tonnes	471	512	531	463	470

Netherlands

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	63 579 000	72 147 000	69 437 000	67 622 000	* 47 000 000
Primary aluminium	tonnes	333 820	285 317	296 900	317 000	306 000
Cadmium	tonnes	494	524	495	530	490
Cement						
Cement clinker	tonnes	...	...	...	...	...
Cement, finished	tonnes	2 496 000	2 790 000	2 700 000	* 2 700 000	* 2 700 000
Pig iron	tonnes	6 031 000	5 417 000	6 412 000	6 130 000	4 655 000
Crude steel	tonnes	6 919 000	6 372 000	7 368 000	6 853 000	5 193 000
Lead, refined	tonnes	* 17 000	* 16 000	* 16 000	* 16 000	* 17 000
Magnesite (a)	tonnes	285 336	293 006	* 245 000	316 264	183 256
Crude petroleum	tonnes	2 268 746	2 022 475	2 576 222	2 163 000	1 704 000
Natural gas	million m ³	74 460	73 300	72 431	79 325	74 659
Salt	tonnes	6 155 000	6 056 000	6 177 000	6 200 000	5 967 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	141 000	141 000	116 000	108 000	98 000
Recovered (c)	tonnes (sulphur content)	440 000	495 000	505 000	515 000	510 000
Slab Zinc	tonnes	227 500	238 274	234 000	250 000	224 000

Note(s)

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

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	6 900 000	9 100 000	9 300 000	10 400 000	* 10 000 000
Aluminium and bauxite						
Bauxite	tonnes	93 993	107 660	41 170	129 186	* 59 000
Alumina	tonnes	264 116	301 767	542 794	257 169	62 131
Alumina hydrate	tonnes	48 643	45 480	151 641	85 713	65 279
Unwrought	tonnes	304 993	370 471	490 373	332 871	218 141
Unwrought alloys	tonnes	304 675	341 439	341 670	361 012	191 239
Scrap	tonnes	265 755	334 426	317 877	264 142	200 650
Antimony						
Metal	tonnes	570	886	308	185	171
Oxide	tonnes	664	780	496	346	285
Arsenic						
Metallic arsenic	tonnes	50	33	59	67	* 30
Barytes	tonnes	52 444	37 392	68 798	58 740	121 567
Bentonite and fuller's earth						
Bentonite	tonnes	186 286	132 076	129 692	120 946	135 722
Fuller's earth	tonnes	2 931	2 141	...	...	...
Bismuth						
Metal	tonnes	97	48	238	196	28
Bromine	kilograms	1 593 400	1 334 000	1 475 500	1 821 400	1 960 700
Cadmium						
Metal	tonnes	553	1 064	544	816	305
Cement						
Cement clinkers	tonnes	2 513	3 119	10 725	0	352
Portland cement	tonnes	295 457	410 232	278 904	298 133	194 392
Other cement	tonnes	18 513	134 225	12 931	6 217	11 447
Chromium						
Ores and concentrates	tonnes	72 062	74 909	78 433	117 639	32 485
Metal	tonnes	3 543	4 430	2 125	4 282	885
Coal						
Anthracite	tonnes	165 918	196 407	158 572	109 516	78 064
Other coal	tonnes	8 445 919	11 940 024	14 089 233	6 399 941	5 154 853
Briquettes	tonnes	...	...	10 188	15	16 347

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Cobalt						
Metal	tonnes	1 326	587	1 579	1 090	353
Oxides	tonnes	1 323	112	127	959	65
Copper						
Unwrought	tonnes	39 638	31 204	49 300	65 343	29 260
Scrap	tonnes	207 551	306 132	229 090	241 332	143 329
Diamond						
Unsorted	carats	£928 000	£849 000	£1 000 000	£442 000	£494 000
Gem, cut	carats	£8 690 779	£8 997 000	£6 214 000	£7 567 000	£3 780 000
Industrial	carats	£842 000	£2 250 000	£1 891 000	£2 156 000	£1 415 000
Dust	carats	£44 000	£61 000	£82 000	£45 000	£196 000
Diatomite	tonnes	804	1 395	348	301	1 365
Feldspar	tonnes	17	552	456	555	1 355
Fluorspar	tonnes	37 113	1 587	27 213	12 665	11 333
Gold						
Metal	kilograms	11 603	19 634	22 468	37 439	15 515
Waste and scrap	kilograms	72 427	98 813	4 433	45 456	1 222
Graphite	tonnes	3 240	2 991	4 308	1 378	1 974
Gypsum						
Crude	tonnes	53 351	32 425	49 394	37 991	* 39 600
Calcined	tonnes	61 508	70 005	17 744	15 228	5 550
Iodine	kilograms	59 228	76 080	517 872	773 705	386 170
Iron ore	tonnes	1 977 965	2 491 191	2 710 120	85 698	239 932
Iron, steel and ferro-alloys						
Pig iron	tonnes	40 552	28 806	134 324	170 468	89 714
Sponge and powder	tonnes	46 464	22 899	543	382	* 140
Ferro-chrome	tonnes	81 105	92 920	94 048	103 036	62 439
Ferro-silico-chrome	tonnes	508	299	25	15	...
Ferro-manganese	tonnes	49 203	28 423	42 958	65 203	33 193
Ferro-silico-manganese	tonnes	13 994	14 118	21 432	17 571	37 593
Ferro-molybdenum	tonnes	4 304	5 652	5 579	3 150	1 894
Ferro-nickel	tonnes	23 252	42 421	42 331	5 086	3 564
Ferro-niobium	tonnes	126	217	1 439	1 736	925
Ferro-silicon	tonnes	95 845	97 120	106 764	71 762	87 348
Ferro-titanium and ferro-silico-titanium	tonnes	6 235	4 281	3 706	3 046	2 730
Ferro-tungsten and ferro-silico-tungsten	tonnes	624	477	2 010	1 168	476
Ferro-vanadium	tonnes	22 495	5 855	7 263	2 274	926
Other ferro-alloys	tonnes	9 700	5 683	7 719	22 603	5 582
Silicon metal	tonnes	40 393	56 525	15 237	15 547	46 466
Ingots, blooms, billets	tonnes	152 593	378 061	1 111 462	806 999	157 861
Scrap	tonnes	4 140 362	4 786 987	4 500 919	4 523 660	* 2 835 000
Kaolin	tonnes	441 248	431 027	416 108	72 264	33 563
Lead						
Ores and concentrates	tonnes	17 161	27 068	2 897	55 980	74 725
Unwrought	tonnes	24 382	11 133	14 824	7 725	11 061
Scrap	tonnes	11 950	16 067	21 822	12 278	13 807
Lithium						
Oxides	tonnes	115	154	331	511	205
Carbonate	tonnes	224	405	318	299	227
Magnesite and magnesia						
Magnesite	tonnes	1 452	4 750	582	494	180
Magnesia	tonnes	492 077	465 555	128 060	344 675	160 337
Manganese						
Ores and concentrates	tonnes	14 903	33 386	8 223	19 103	28 701
Metal	tonnes	13 585	16 739	19 767	19 144	15 642
Mercury	kilograms	188 220	176 670	196 039	192 605	419 480
Mica	tonnes	2 912	2 735	6 842	1 341	3 214
Molybdenum						
Ores and concentrates	tonnes	47 395	27 264	26 613	16 284	4 408
Metal	tonnes	59	190	409	282	46
Oxides	tonnes	2 708	2 110	3 059	4 253	1 805
Nickel						
Mattes, sinters etc (a)	tonnes	* 11 800	* 11 700	* 6 500	* 2 400	* 2 900
Unwrought (b)	tonnes	21 895	77 742	80	117	105
Scrap	tonnes	2 009	1 740	4 456	4 614	1 711
Oxides	tonnes	6 017	1 757	...	...	...
Crude petroleum	tonnes	145 541	309 456	207 858	328 795	184 860

Netherlands

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Phosphate rock	tonnes	91 592	98 687	106 235	120 214	11 807
Platinum metals						
Platinum	kilograms	£9 061 000	£8 718 000	£8 190 000	£18 207 000	£59 804 000
Platinum metals	kilograms	£8 211 000	£3 971 000	£3 766 000	£10 385 000	£10 383 000
Waste and scrap	kilograms	876	16 569	25 850	352 175	* 163 160
Potash						
Sulphate	tonnes	382	842	7 918	1 424	4 431
Chloride	tonnes	163 072	152 423	170 921	147 436	133 012
Other potassic fertilisers	tonnes	759	1 557	1 162	1 341	2 680
Rare earths						
Rare earth compounds	tonnes	171	157	77	131	* 150
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	...	...
Metals	tonnes	13	16	64	202	* 135
Salt	tonnes	3 749 442	4 126 810	4 055 898	3 878 601	* 3 412 200
Sillimanite minerals	tonnes	11 444	7 679	9 689	10 848	5 602
Silver						
Ores and concentrates	kilograms	...	26 860	...	18 000	...
Metal	kilograms	93 668	151 077	144 024	208 300	196 180
Sulphur and pyrites						
Pyrites	tonnes	82 502	82 883	102 300	132 802	10 039
Sulphur	tonnes	248 680	436 669	460 352	850 183	36 898
Talc	tonnes	183 270	190 668	199 896	186 688	147 544
Tantalum and niobium						
Tantalum	tonnes	3	76	2	2	4
Tin						
Unwrought	tonnes	5 330	6 971	8 061	2 566	1 536
Unwrought alloys	tonnes	1 790	1 051	293	948	558
Scrap	tonnes	297	761	545	157	547
Titanium						
Titanium minerals	tonnes	1 390	1 660	449	1 341	13 664
Metal	tonnes	2 181	1 902	2 182	1 551	895
Oxides	tonnes	84 310	95 512	64 544	15 544	36 179
Tungsten						
Ores and concentrates	tonnes	—	276	181	29	...
Metal	tonnes	502	434	391	582	133
Vanadium						
Pentoxide	tonnes	381	411	157	45	102
Metal	tonnes	11	20	...	...	...
Zinc						
Ores and concentrates	tonnes	5 836	3 730	13 939	0	425
Unwrought	tonnes	273 832	615 269	243 354	244 789	133 994
Unwrought alloys	tonnes	9 364	38 116	31 276	23 932	22 041
Scrap	tonnes	41 593	39 073	67 010	19 815	* 11 900
Zirconium						
Concentrates	tonnes	8 178	7 391	14 539	8 223	4 639

Note(s)

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

(b) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	40 800 000	43 000 000	33 400 000	38 100 000	* 38 000 000
Aluminium and bauxite						
Bauxite	tonnes	169 012	118 203	108 088	182 711	68 038
Alumina	tonnes	654 487	440 195	706 255	689 724	153 891
Alumina hydrate	tonnes	223 823	205 902	190 351	178 940	52 798
Unwrought	tonnes	370 979	650 035	713 441	248 386	134 950
Unwrought alloys	tonnes	287 504	321 582	358 930	479 786	284 410
Scrap	tonnes	189 722	197 160	204 117	210 203	88 053
Antimony						
Metal	tonnes	705	651	699	234	150
Oxide	tonnes	41 562	35 127	3 783	51 439	2 257
Arsenic						
Metallic arsenic	tonnes	85	20	19	8	* 45
Barytes	tonnes	116 512	88 489	148 808	122 039	43 928
Bentonite and fuller's earth						
Bentonite	tonnes	199 692	281 144	305 364	314 298	* 190 000
Fuller's earth	tonnes	70 482	80 511	...	...	...
Bismuth						
Metal	tonnes	85	168	127	120	42
Bromine (a)	kilograms	5 019 289	3 037	4 403	7 661	63 310
Cadmium						
Metal	tonnes	233	113	437	186	50
Cement						
Cement clinkers	tonnes	388 146	494 944	228 817	380 281	511 560
Portland cement	tonnes	1 632 872	1 925 756	2 072 034	1 705 144	904 788
Other cement	tonnes	846 622	1 452 353	722 635	993 318	842 190
Chromium						
Ores and concentrates	tonnes	80 622	99 305	125 778	145 698	18 702
Metal	tonnes	1 838	3 632	2 222	3 897	2 157
Coal						
Anthracite	tonnes	186 936	218 516	62 577	79 784	8 005
Other coal	tonnes	21 958 859	21 368 119	24 622 621	17 843 689	14 084 993
Lignite	tonnes	30 769	22 548	29 517	5 265	29 239
Briquettes	tonnes	51 100	83 734	68 765	53 432	53 030
Cobalt						
Metal	tonnes	1 532	1 511	1 270	1 124	* 491
Oxides	tonnes	351	269	489	244	54
Copper						
Unwrought, unrefined	tonnes	10 485	18 333	18 130	26	2 678
Unwrought, refined	tonnes	135 004	147 428	151 515	35 077	33 771
Unwrought alloys	tonnes	1 904	2 214	3 379	2 440	1 329
Scrap	tonnes	92 927	110 753	117 259	116 503	—
Diamond						
Unsorted	carats	£344 000	£225 000	£299 000	£803 000	£551 000
Gem, rough	carats	£79 000	£369 000	£320 000	£1 071 000	£95 000
Gem, cut	carats	£16 550 000	£22 397 000	£13 943 000	£17 750 000	£10 757 000
Industrial	carats	£2 027 000	£1 850 000	£859 000	£1 088 000	£613 000
Dust	carats	2 919 740	3 998 115	1 089 105	791 805	426 830
Diatomite	tonnes	7 967	6 799	7 214	6 275	3 794
Feldspar	tonnes	7 721	7 505	8 529	12 633	8 849
Fluorspar	tonnes	45 073	7 836	48 089	13 860	13 014
Gold						
Metal	kilograms	22 754	22 122	21 706	41 012	42 806
Waste and scrap	kilograms	1	92 890	19 174	2 422	111
Graphite	tonnes	15 205	5 362	13 463	42 612	2 487
Gypsum						
Crude	tonnes	155 519	227 950	402 915	285 990	249 206
Calcined	tonnes	686 085	483 249	430 550	415 623	418 481
Iodine	kilograms	21 015	158 145	1 870	800 817	23 376
Iron ore	tonnes	12 285 177	10 833 565	12 693 210	10 831 769	(b) 4 585 303

Netherlands

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	107 828	122 097	158 199	292 867	122 185
Sponge and powder	tonnes	131 170	251 304	244 874	253 882	109 768
Ferro-chrome	tonnes	170 806	204 637	325 741	275 995	40 931
Ferro-silico-chrome	tonnes	621	1 125	674	1	1 394
Ferro-manganese	tonnes	115 972	102 493	105 789	96 135	39 045
Ferro-silico-manganese	tonnes	30 114	47 986	81 034	70 108	29 335
Ferro-molybdenum	tonnes	5 100	7 554	11 826	8 566	2 868
Ferro-nickel	tonnes	39 305	17 866	16 878	17 602	4 274
Ferro-niobium	tonnes	51	159	465	2 074	949
Ferro-silicon	tonnes	145 459	122 016	160 792	114 290	79 461
Ferro-titanium and ferro-silico-titanium	tonnes	11 496	11 005	10 730	6 781	1 860
Ferro-tungsten and ferro-silico-tungsten	tonnes	1 148	965	1 186	1 572	554
Ferro-vanadium	tonnes	5 100	4 409	4 132	2 042	519
Other ferro-alloys	tonnes	7 412	25 282	12 829	30 407	6 951
Silicon metal	tonnes	52 931	69 104	68 719	57 446	41 740
Ingots, blooms, billets	tonnes	322 908	390 652	269 481	283 834	110 561
Scrap	tonnes	2 030 115	2 321 144	1 669 159	1 842 597	* 1 135 000
Kaolin	tonnes	564 518	627 768	612 720	352 122	68 072
Lead						
Ores and concentrates	tonnes	9 268	13 186	22 303	5 307	1 935
Unwrought	tonnes	36 051	24 272	22 419	9 373	7 195
Scrap	tonnes	9 700	17 508	22 006	11 325	13 593
Lithium						
Oxides	tonnes	178	359	428	537	228
Carbonate	tonnes	1 171	1 356	1 459	729	316
Magnesite and magnesia						
Magnesite	tonnes	3 057	3 007	1 390	3 609	3 259
Magnesia	tonnes	558 764	454 271	437 684	314 860	80 478
Manganese						
Ores and concentrates	tonnes	35 936	22 495	11 749	10 664	9 398
Metal	tonnes	61 240	22 162	31 236	35 573	19 083
Mercury	kilograms	665 865	888 164	674 888	293 481	* 186 300
Mica						
Unmanufactured	tonnes	143	176	400	751	523
Ground	tonnes	7 381	7 251	9 933	2 618	3 490
Molybdenum						
Ores and concentrates	tonnes	31 781	34 891	30 403	36 305	9 555
Metal	tonnes	287	801	1 060	572	84
Oxides	tonnes	1 509	1 441	1 341	859	230
Nickel						
Unwrought alloys	tonnes	343	139	204	1 227	227
Scrap	tonnes	6 738	9 870	14 008	12 647	4 666
Oxides (c)	tonnes	* 40	* 130	* 20	* 30	* 70
Crude petroleum	tonnes	62 152 486	61 548 064	57 027 374	58 484 561	35 086 584
Natural gas	tonnes	14 229 445	29 784 906	10 072 000	16 136 000	7 506 000
Phosphate rock	tonnes	776 661	815 692	847 776	1 108 711	192 355
Platinum metals						
Platinum	kilograms	£12 517 000	£21 771 000	£22 785 000	£89 137 000	£78 613 000
Platinum metals	kilograms	£3 682 000	£7 066 000	£7 722 000	£8 219 000	£11 659 000
Potash						
Sulphate	tonnes	26 208	24 658	21 211	17 393	28 984
Chloride	tonnes	445 767	265 838	314 011	307 612	204 377
Other potassic fertilisers	tonnes	2 486	5 283	6 691	3 899	3 466
Rare earths						
Cerium compounds	tonnes	164	290	473	278	71
Other rare earth compounds	tonnes	2 140	2 781	3 868	2 766	* 1 100
Ferro-cerium and other pyrophoric alloys	tonnes	3	3	3	4	6
Metals	tonnes	8	135	100	261	* 200
Salt	tonnes	630 738	1 150 949	193 457	167 508	* 253 000
Sillimanite minerals	tonnes	20 001	24 195	17 488	24 457	4 189
Silver						
Metal	kilograms	139 625	263 049	229 637	265 925	218 279
Sulphur and pyrites						
Pyrites	tonnes	8 896	95	80	145 627	2 119
Sulphur	tonnes	37 083	23 928	38 189	55 173	11 430
Sulphur, sublimed and precipitated	tonnes	37 484	—	...	0	2

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Talc	tonnes	206 485	243 071	225 720	207 922	94 407
Tantalum and niobium						
Tantalum	tonnes	12	6	8	10	4
Tin						
Unwrought	tonnes	8 730	13 696	7 858	11 003	7 071
Unwrought alloys	tonnes	1 983	1 283	1 972	2 540	504
Scrap	tonnes	201	466	607	503	380
Titanium						
Titanium minerals	tonnes	127 941	79 377	103 580	87 769	* 100 000
Metal	tonnes	1 857	2 234	4 295	1 073	1 224
Oxides	tonnes	46 008	8 387	41 221	37 101	40 914
Tungsten						
Ores and concentrates	tonnes	110	1 532	875	457	5
Metal	tonnes	204	330	284	329	71
Carbide	tonnes	99	49	36	94	42
Vanadium						
Pentoxide	tonnes	714	362	316	227	27
Zinc						
Ores and concentrates	tonnes	484 472	532 861	359 520	430 617	320 568
Unwrought	tonnes	144 592	200 472	182 072	155 003	104 253
Unwrought alloys	tonnes	2 387	40 482	38 602	24 062	15 791
Scrap	tonnes	15 257	14 619	13 633	6 270	8 274
Zirconium						
Concentrates	tonnes	10 975	15 948	20 462	24 694	11 027
Metal	tonnes	88	123	199	240	* 70

Note(s)

(a) May include some fluorine

(b) Including burnt pyrites

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

Norway

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	15 000 000	13 418 000	14 855 000	14 817 000	13 047 000
Crushed rock	tonnes	38 000 000	45 947 000	51 533 000	52 338 000	51 378 000
Primary aluminium	tonnes	1 391 000	1 383 000	1 362 000	1 368 000	1 090 000
Cadmium	tonnes	153	125	269	178	249
Cement						
Cement, finished	tonnes	1 613 000	1 695 000	1 700 000	* 1 700 000	* 1 700 000
Coal						
Bituminous (a)	tonnes	1 667 000	2 359 000	3 223 000	3 429 000	2 437 000
Cobalt metal	tonnes	5 021	4 927	3 939	3 719	3 510
Copper, smelter	tonnes	38 681	39 700	34 200	37 000	33 900
Copper, refined	tonnes	38 681	39 700	34 200	37 000	33 900
Feldspar	tonnes	* 67 000	65 000	65 000	62 000	48 000
Graphite	tonnes	9 000	9 000	3 000	4 100	4 562
Iron ore	tonnes	713 000	620 000	630 000	746 000	896 000
Pig iron	tonnes	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Crude steel	tonnes	705 000	684 000	708 000	560 000	591 000
Ferro-alloys						
Ferro-manganese	tonnes	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	tonnes	288 137	325 708	293 699	273 485	* 250 000
Ferro-silicon	tonnes	329 316	123 819	170 024	185 344	233 974
Other ferro-alloys	tonnes	* 60 000	* 60 000	* 62 000	* 60 000	* 60 000
Silicon metal	tonnes	178 572	* 150 000	* 140 000	* 155 000	* 150 000
Nickel, mine	tonnes (metal content)	342	320	378	377	336
Nickel, smelter/refinery	tonnes	85 374	82 257	87 600	88 700	88 577
Nepheline Syenite	tonnes	320 000	312 000	312 000	346 000	270 000
Crude petroleum	tonnes	139 802 000	136 695 000	125 763 000	121 101 700	115 000 000
Natural gas	million m ³	84 702	87 600	89 700	99 200	103 500
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	* 110 000	* 110 000	* 95 000	* 95 000	* 90 000
Recovered (c)	tonnes (sulphur content)	19 000	20 000	18 000	28 000	25 000
Talc	tonnes	34 000	* 34 000	* 34 000	* 30 000	23 350
Titanium						
Ilmenite	tonnes	806 800	850 000	882 000	915 000	671 000
Slab Zinc	tonnes	151 285	160 670	157 027	145 469	138 973

Note(s)

(1) Norway is believed to produce gold

(a) Spitzbergen: not including production from mines controlled by Russia

(b) From metal sulphide processing

(c) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	13 334 212	14 357 509	16 183 927	16 683 638	13 843 722
Aluminium and bauxite						
Unwrought	tonnes	147 295	126 841	113 285	105 729	106 593
Unwrought alloys	tonnes	1 365 929	1 412 569	1 496 556	1 484 854	1 249 830
Scrap	tonnes	38 218	42 804	41 296	41 476	80 729
Barytes	tonnes	1 482	14 199	13 425	5 608	4 069
Cadmium						
Metal	tonnes	132	90	205	259	211
Cement						
Cement clinkers (a)	tonnes	* 50 000	* 65 000	* 117 000	* 118 000	* 104 000
Portland cement (a)	tonnes	* 569 000	* 369 000	* 236 000	* 152 000	—
Cobalt						
Metal	tonnes	4 997	4 990	4 030	3 731	3 550

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Copper						
Unwrought	tonnes	37 430	38 232	34 007	36 734	32 927
Unwrought alloys	tonnes	1 707	1 141	1 161	756	570
Scrap	tonnes	22 667	24 205	24 066	22 561	25 339
Diatomite	tonnes	1 362	281	566	770	6
Feldspar	tonnes	58 821	66 838	66 484	58 211	47 711
Gold						
Metal	kilograms	2 415	2 337	2 601	3 847	3 865
Waste and scrap	kilograms	137	182	426	600	1 197
Gypsum						
Crude and calcined	tonnes	49 511	40 811	51 212	69 976	68 140
Iodine	kilograms	—	17	7 200	—	250
Iron ore						
Iron ore	tonnes	721 975	720 582	739 731	615 296	775 828
Burnt pyrites	tonnes	14 730	2 658	...	...	...
Iron, steel and ferro-alloys						
Pig iron (a)	tonnes	* 66 800	* 149 400	* 119 800	* 110 100	* 75 000
Ferro-chrome (a)	tonnes	* 200	* 200	* 100	* 75	—
Ferro-manganese (a)	tonnes	* 274 200	* 287 500	* 329 400	* 354 000	* 203 000
Ferro-silico-manganese	tonnes	289 497	306 932	280 028	257 804	200 279
Ferro-silicon	tonnes	179 503	90 556	155 198	209 669	115 682
Other ferro-alloys	tonnes	55 564	58 033	...	57 954	16 207
Silicon metal	tonnes	168 790	152 514	144 607	155 385	109 254
Ingots, blooms, billets	tonnes	151 882	180 500	176 755	62 625	106 505
Scrap	tonnes	267 051	337 088	290 644	269 370	228 138
Kaolin	tonnes	768	132	47	47	271
Lead						
Scrap	tonnes	1 013	892	974	695	504
Manganese						
Ores and concentrates	tonnes	1 410	7 880	56 939	10 266	9 214
Metal	tonnes	131	203	2 373	1 363	59
Mica	tonnes	2 003	2 157	2 168	2 640	1 835
Nickel						
Ores and concentrates	tonnes	7 581	7 860	5 379	8 093	...
Unwrought	tonnes	84 012	81 440	88 628	88 940	88 080
Scrap	tonnes	897	641	1 185	394	274
Crude petroleum	tonnes	119 119 538	105 110 521	99 245 180	90 343 623	87 847 502
Natural gas	tonnes	61 351 894	63 323 422	63 999 250	71 394 708	74 357 298
Platinum metals						
Platinum and platinum metals	kilograms	11 871	11 885	14 611	15 393	12 341
Waste and scrap	kilograms	342	29 817	66 193	5 119	35 829
Potash						
Chloride	tonnes	7 611	2 243	1 285	—	—
Rare earths						
Rare earth compounds	tonnes	...	...	1	21	21
Metals	tonnes	11	59	0	1	105
Salt	tonnes	6 679	9 040	4 178	4 833	14 998
Silver						
Metal	kilograms	66 139	52 952	45 461	59 381	58 979
Sulphur and pyrites						
Sulphur	tonnes	1	20	3 325	—	—
Talc	tonnes	28 448	31 834	33 032	27 371	23 461
Tin						
Scrap	tonnes	323	236	189	119	12
Titanium						
Titanium minerals (a)	tonnes	* 382 000	* 477 000	* 435 000	* 435 000	* 350 000
Metal	tonnes	159	176	117	339	227
Oxides (a)	tonnes	* 177 000	* 221 000	* 199 000	* 217 000	* 207 000
Zinc						
Unwrought	tonnes	134 690	138 491	130 570	130 397	128 416
Unwrought alloys	tonnes	5 600	12 275	13 899	9 227	6 107

Note(s)

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	67 562	66 708	72 906	80 161	66 884
Aluminium and bauxite						
Bauxite	tonnes	16 601	11 384	3 446	10 232	15 444
Alumina	tonnes	2 723 588	2 730 064	2 535 547	2 753 105	2 069 424
Alumina hydrate	tonnes	45 957	43 721	48 560	50 401	45 252
Unwrought	tonnes	328 722	352 293	435 126	381 638	240 409
Unwrought alloys	tonnes	42 056	34 783	73 058	58 995	95 120
Scrap	tonnes	20 806	26 326	32 024	37 386	26 598
Antimony						
Metal	tonnes	71	11	70	44	1
Oxide	tonnes	305	507	337	371	200
Barytes	tonnes	109 802	125 134	127 181	121 259	146 535
Bentonite and fuller's earth						
Bentonite	tonnes	10 000	15 246	14 399	14 783	12 612
Fuller's earth	tonnes	260	209	...	...	...
Cement						
Cement clinkers	tonnes	6 615	8 782	14 895	36 704	6 904
Portland cement	tonnes	373 788	443 104	441 619	361 216	237 896
Other cement	tonnes	12 319	14 147	19 062	22 317	20 474
Chromium						
Ores and concentrates (a)	tonnes	* 500	* 500	* 20	* 600	* 400
Metal	tonnes	92	73	253	128	74
Coal						
Anthracite (b)	tonnes	92 673	55 914	76 744	81 955	54 199
Other coal (b)	tonnes	575 921	472 129	(a)* 527 000	(a)* 538 000	(a)* 367 000
Briquettes	tonnes	282	349	706	24 406	1 074
Cobalt						
Metal	tonnes	5 775	6 362	3 871	3 131	3 012
Oxides	tonnes	9	2	...	...	155
Copper						
Unwrought	tonnes	3 190	3 133	3 650	3 133	1 627
Scrap	tonnes	12 420	12 759	13 486	11 189	9 727
Diatomite	tonnes	2 044	1 228	1 645	1 891	931
Feldspar	tonnes	17 103	17 199	12 930	17 367	13 781
Gold						
Metal	kilograms	2 099	1 739	1 448	1 146	670
Waste and scrap	kilograms	1 049	1 304	1 455	3 940	3 568
Graphite	tonnes	423	296	980	561	508
Gypsum						
Crude	tonnes	119 962	117 892	128 045	121 440	76 435
Calcined	tonnes	274 006	287 568	328 003	298 394	234 564
Iodine	kilograms	1 748 110	1 919 848	1 785 526	1 668 339	1 270 662
Iron ore	tonnes	(c) 526 738	216 372	179 727	151 503	134 167
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 841	12 813	11 335	11 198	10 639
Sponge and powder	tonnes	13 729	320	2 355	1 589	292
Ferro-chrome	tonnes	1 251	1 440	1 303	929	1 162
Ferro-manganese	tonnes	6 154	5 328	10 639	7 448	6 608
Ferro-silico-manganese	tonnes	1 071	2 729	1 034	1 960	1 186
Ferro-silicon	tonnes	25 663	26 931	43 350	13 502	9 097
Other ferro-alloys	tonnes	1 877	3 392	3 681	2 471	926
Silicon metal	tonnes	26 714	37 439	39 961	40 878	29 810
Ingots, blooms, billets	tonnes	142 986	161 778	195 928	167 309	59 344
Scrap	tonnes	345 634	313 184	267 085	96 427	91 114
Kaolin	tonnes	250 879	241 976	208 709	253 361	190 562
Lead						
Unwrought	tonnes	4 882	4 749	7 055	6 473	5 026
Magnesite and magnesia						
Magnesite	tonnes	2 125	4 265	126	69	17
Magnesia	tonnes	500	1 784	4 298	5 989	4 904
Manganese						
Ores and concentrates	tonnes	1 172 711	849 729	1 083 361	1 232 799	525 674
Metal	tonnes	2 976	3 531	2 953	2 595	1 297
Mica						
Unmanufactured	tonnes	80	648	912	1 174	1 021
Ground	tonnes	893	373	337	1 243	1 140
Waste	tonnes	28	120	18	9	...

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Nickel						
Mattes, sinters etc	tonnes	176 657	158 274	165 628	178 502	153 437
Unwrought (d)	tonnes	80	60	215	201	199
Crude petroleum	tonnes	983 848	440 374	1 446 918	752 400	1 192 549
Natural gas	tonnes	—	—	118 063	442	231
Phosphate rock	tonnes	710 528	672 546	673 331	682 369	403 098
Platinum metals						
Platinum and platinum metals	kilograms	1 076	922	1 057	1 072	1 005
Waste and scrap	kilograms	998	1 102	846	1 093	930
Potash						
Sulphate	tonnes	247 379	266 149	241 918	190 757	123 549
Chloride	tonnes	306 369	307 422	349 459	353 452	199 385
Other potassic fertilisers	tonnes	555	710	659	674	509
Rare earths						
Metals	tonnes	544	686	738	341	24
Salt	tonnes	910 846	1 026 541	988 001	1 075 905	959 630
Sillimanite minerals	tonnes	2 400	2 288	3 404	2 702	4 359
Silver						
Ores and concentrates	kilograms	...	7 923 075	—	...	...
Metal	kilograms	90 331	64 511	62 077	67 398	47 040
Sulphur and pyrites						
Pyrites	tonnes	26 940	...	...	77	...
Sulphur	tonnes	16 413	11 983	5 224	4 690	3 102
Sulphur, sublimed and precipitated	tonnes	240	5 571	10 790	12 932	12 127
Talc	tonnes	16 488	10 991	13 374	8 020	6 517
Tin						
Unwrought (d)	tonnes	78	126	74	80	71
Titanium						
Titanium minerals	tonnes	33 000	73 690	17 600	73 307	29 809
Metal	tonnes	636	661	637	937	389
Oxides	tonnes	11 924	16 013	12 121	12 241	8 209
Vanadium						
Metal	tonnes	10	63	...	...	...
Zinc						
Ores and concentrates	tonnes	255 158	248 486	284 791	243 213	209 649
Unwrought (d)	tonnes	247	2 828	2 167	3 286	1 612

Note(s)

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

Poland

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel (a)	tonnes	* 99 648 000	* 116 561 000	* 139 388 000	* 149 312 000	* 150 000 000
Crushed rock	tonnes	33 098 360	38 835 618	46 854 829	39 465 558	52 217 696
Primary aluminium	tonnes	53 582	55 939	53 379	46 730	16 851
Barytes	tonnes	2 357	2 034	2 000	308	300
Bentonite and fuller's earth	tonnes	86 331	97 900	105 943	121 031	81 354
Cadmium	tonnes	408	373	421	603	534
Cement						
Cement clinker	tonnes	9 468 410	11 219 940	13 167 950	12 443 103	10 659 214
Cement, finished	tonnes	12 646 223	14 688 353	16 963 752	17 206 735	15 536 984
Coal						
Bituminous	tonnes	97 903 730	95 222 512	88 313 369	84 345 443	78 064 462
Lignite	tonnes	61 636 445	60 844 278	57 537 727	59 668 166	57 108 304
Copper, mine	tonnes (metal content)	511 799	497 200	451 900	429 687	439 000
Copper, smelter	tonnes	555 681	555 907	518 303	492 942	457 510
Copper, refined	tonnes	560 256	556 625	532 975	526 808	502 491
Diatomite	tonnes	500	600	* 600	600	670
Feldspar	tonnes	490 200	457 400	501 800	599 100	445 500
Gold, mine (b)	kilograms (metal content)	713	1 700	883	902	823
Gypsum						
Gypsum	tonnes	1 048 000	1 172 000	1 298 000	1 283 000	(c) 1 326 928
Anhydrite	tonnes	195 000	181 000	194 000	198 000	...
Pig iron	tonnes	4 476 831	5 332 632	5 804 418	4 933 781	3 095 053
Crude steel	tonnes	8 335 898	9 991 638	10 630 716	9 727 325	7 239 339
Ferro-alloys						
Ferro-manganese	tonnes	7 782	4 089	2 093	8 475	1 736
Ferro-silico-manganese	tonnes	10 242	3 310	15 590	25 061	72
Ferro-silicon	tonnes	65 118	13 034	58 538	56 031	9 685
Other ferro-alloys	tonnes	3 663	4 488	6 255	2 948	4 190
Kaolin (d)	tonnes	159 207	148 579	153 670	165 615	136 561
Lead, mine	tonnes (metal content)	78 980	77 450	61 330	67 070	54 900
Lead, refined	tonnes	81 000	82 200	104 200	108 300	100 400
Magnesite	tonnes	55 300	63 000	65 000	60 000	47 000
Crude petroleum	tonnes	847 844	795 742	720 603	754 907	686 992
Natural gas	million m ³	5 742	5 651	5 653	5 382	5 537
Salt						
Rock salt	tonnes	1 123 219	1 129 875	591 240	618 111	988 545
Brine salt	tonnes	2 889 941	2 899 076	2 930 726	2 783 198	2 533 413
Other salt	tonnes	118 703	808 247	785 694	706 618	484 486
Selenium metal	tonnes	82	87	85	82	80
Silver, mine	kilograms (metal content)	1 262 400	1 265 100	1 199 500	1 161 000	1 150 000
Sulphur and pyrites						
Frasch	tonnes (sulphur content)	801 799	800 200	833 583	762 119	262 769
Recovered (e)	tonnes (sulphur content)	289 000	308 000	* 304 000	* 305 000	* 300 000
Recovered (f)	tonnes (sulphur content)	186 600	203 100	211 900	215 000	79 004
Zinc, mine	tonnes (metal content)	135 600	126 600	129 600	132 400	115 500
Slab Zinc	tonnes	137 300	133 900	141 900	142 500	139 100

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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 237 482	1 671 890	1 378 634	1 237 976	902 193
Aluminium and bauxite						
Bauxite	tonnes	1 300	1 693	596	536	833
Unwrought (a)	tonnes	81 962	80 266	78 187	82 242	66 065
Scrap	tonnes	82 875	107 939	113 649	123 468	102 757
Antimony						
Metal	tonnes	18	36	22	25	65
Bentonite and fuller's earth						
Bentonite	tonnes	12 061	15 851	19 107	20 384	23 918
Fuller's earth	tonnes	404	580	...	...	...
Bromine	kilograms	3 000	5 500	9 400	5 000	5 500
Cadmium						
Metal	tonnes	610	364	368	558	590
Cement						
Cement clinkers	tonnes	256 621	856 035	181 690	163 902	127 806
Portland cement	tonnes	460 479	402 741	313 361	314 733	405 940
Other cement	tonnes	49 970	67 457	65 822	78 349	35 305
Chromium						
Metal	tonnes	1	13	1 556	1 465	568
Coal						
Anthracite	tonnes	23 331	31 200	30 256	16 173	5 282
Other coal	tonnes	20 816 121	16 586 467	11 761 743	7 775 799	8 368 190
Lignite	tonnes	8 211	317	—	1 009	68 273
Cobalt						
Oxides	tonnes	3	3	5	24	64
Copper						
Matte and cement	tonnes	3 673	6 774	2 187	2 989	1 515
Unwrought	tonnes	290 462	287 666	239 508	296 738	325 395
Unwrought alloys	tonnes	6 183	6 205	6 397	5 469	2 358
Scrap	tonnes	47 463	55 285	64 377	63 779	64 606
Diatomite	tonnes	455	527	774	277	85
Feldspar	tonnes	1 509	2 749	1 849	2 049	1 829
Gold						
Metal	kilograms	100	1 100	300	105 000	121 100
Waste and scrap	kilograms	1 100	1 600	700	4 800	18 000
Gypsum						
Crude and calcined	tonnes	33 277	40 832	56 003	58 644	40 512
Iodine	kilograms	100	200	1 300	5 100	5 100
Iron ore	tonnes	50	—	27	10 198	14 893
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 917	19 286	7 481	5 189	10 543
Ferro-manganese and ferro-silico-manganese	tonnes	22 713	11 954	20 412	37 978	21 640
Ferro-silicon	tonnes	64 974	16 023	46 923	52 976	16 401
Other ferro-alloys	tonnes	915	1 630	2 364	2 752	2 440
Ingots, blooms, billets	tonnes	1 249 618	964 361	1 575 099	1 580 450	664 035
Scrap	tonnes	1 426 831	1 197 827	1 199 620	1 368 952	978 862
Kaolin	tonnes	6 194	7 177	10 401	8 936	11 515
Lead						
Ores and concentrates	tonnes	92 226	73 902	70 970	69 852	59 790
Unwrought	tonnes	44 008	68 635	34 455	40 017	48 599
Scrap	tonnes	1 652	2 168	3 120	1 110	1 525
Magnesite and magnesia	tonnes	1 208	654	2 632	1 921	734
Manganese						
Ores and concentrates	tonnes	43 186	1 309	151	18	20
Metal	tonnes	67	52	460	35	603
Mercury	kilograms	3 000	33 900	61 600	17 700	46 200
Nickel						
Mattes, sinters etc	tonnes	...	...	...	...	1 443
Unwrought	tonnes	(a) 480	312	(a) 466	(a) 334	(a) 172
Oxides	tonnes	529	577	558	759	260
Scrap	tonnes	642	290	268	647	260
Crude petroleum	tonnes	216 256	243 699	287 684	34 871	17 227
Natural gas	tonnes	26 501	—	—	—	—
Platinum metals						
Platinum and platinum metals	kilograms	903	350	156	7 275	47 400
Waste and scrap	kilograms	60	4 312	139	7 399	1 600

Poland

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Potash						
Potassic fertilisers	tonnes	932	3 130	2 202	9 222	13 279
Rare earths						
Cerium compounds	tonnes	0	0	15	8	4
Other rare earth compounds	tonnes	0	0	33	22	—
Metals	tonnes	...	...	—	5	—
Salt	tonnes	495 481	498 345	345 335	361 691	503 899
Silver						
Metal	kilograms	318 800	519 800	1 148 300	1 121 900	1 265 200
Sulphur and pyrites						
Sulphur	tonnes	575 796	478 736	555 603	446 202	152 484
Sulphur, sublimed and precipitated	tonnes	17 364	18 426	26 376	27 041	29 540
Tin						
Unwrought (a)	tonnes	116	182	1 520	355	279
Scrap	tonnes	158	37	34	20	14
Titanium						
Metal	tonnes	740	917	52	117	105
Oxides	tonnes	24 394	25 598	21 776	21 509	20 937
Tungsten						
Metal	tonnes	84	89	76	143	136
Zinc						
Ores and concentrates	tonnes	63 913	61 094	61 595	58 035	45 877
Unwrought	tonnes	74 938	62 332	73 096	83 571	84 833
Unwrought alloys	tonnes	857	2 513	1 829	3 606	4 699
Scrap	tonnes	797	233	422	430	1 617

Note(s)

(a) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 775 291	2 976 252	5 566 874	5 868 908	5 349 230
Aluminium and bauxite						
Bauxite	tonnes	59 758	61 638	71 598	59 907	49 033
Alumina	tonnes	102 845	114 800	120 768	126 143	27 626
Alumina hydrate	tonnes	29 538	27 358	27 634	25 334	23 083
Unwrought	tonnes	62 403	76 996	105 281	71 563	67 561
Unwrought alloys	tonnes	140 792	167 914	192 930	195 072	144 983
Scrap	tonnes	39 907	52 498	59 623	67 176	67 408
Antimony						
Metal	tonnes	28	158	142	52	71
Oxide	tonnes	1 231	1 338	1 315	1 086	1 034
Arsenic						
Metallic arsenic	tonnes	39	21	24	42	20
Asbestos						
Unmanufactured	tonnes	6	52	...	...	35
Barytes	tonnes	7 744	9 138	10 895	14 334	8 349
Bentonite and fuller's earth						
Bentonite	tonnes	115 208	153 266	162 424	171 633	122 165
Fuller's earth	tonnes	2 566	2 564	...	...	...
Bismuth						
Metal	tonnes	14	14	15	25	20
Bromine	kilograms	6 000	16 000	14 300	10 600	6 100
Cement						
Cement clinkers	tonnes	33 673	45 560	65 632	127 428	35 106
Portland cement	tonnes	444 855	285 135	520 330	680 447	421 822
Other cement	tonnes	5 537	5 700	22 982	29 529	21 466
Chromium						
Ores and concentrates	tonnes	9 391	16 161	38 543	36 646	12 728
Metal	tonnes	54	45	1 717	2 137	679

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Coal						
Anthracite	tonnes	263 929	295 026	449 362	553 152	310 290
Other coal	tonnes	3 112 462	4 866 783	5 442 327	9 531 959	10 362 090
Lignite	tonnes	0	4 406	8 946	18 057	30 307
Briquettes	tonnes	2 118	3 932	...	10 960	25 788
Cobalt						
Metal	tonnes	35	52	69	51	53
Oxides	tonnes	121	63	18	30	15
Copper						
Ores and concentrates	tonnes	43 504	112 708	61 319	62 443	78 027
Matte and cement	tonnes	312	5 310	10 062	—	—
Unwrought, unrefined	tonnes	3 363	31 609	23 880	33 376	40 030
Unwrought, refined	tonnes	658	5 493	7 024	6 629	13 838
Unwrought alloys	tonnes	3 097	3 797	4 516	3 012	2 408
Scrap	tonnes	5 855	4 885	18 596	19 269	22 153
Diamond						
Industrial	carats	43 583	31 323	150 918	237 903	169 851
Dust	carats	4 042 100	* 3 200 000	3 149 550	27 584 081	263 119 707
Diatomite	tonnes	6 465	5 997	8 235	9 504	9 790
Feldspar	tonnes	215 185	219 719	237 963	243 798	176 717
Fluorspar	tonnes	6 290	7 834	8 682	8 691	8 562
Gold						
Metal	kilograms	100	400	6 100	3 800	100
Graphite	tonnes	3 028	3 658	5 701	4 474	3 078
Gypsum						
Crude	tonnes	150 622	175 567	283 724	154 273	118 834
Calcined	tonnes	91 356	150 619	216 536	182 150	78 939
Iodine	kilograms	10 200	18 700	18 800	24 100	10 600
Iron ore	tonnes	6 788 655	9 607 629	8 746 836	(a) 7 784 529	(a) 3 752 010
Iron, steel and ferro-alloys						
Pig iron	tonnes	239 240	220 163	228 445	236 682	156 970
Sponge and powder	tonnes	24 490	12 448	10 282	8 390	4 677
Ferro-chrome	tonnes	10 863	12 318	14 113	13 713	6 064
Ferro-silico-magnesium	tonnes	3 410	4 035	9 102	8 194	5 379
Ferro-manganese	tonnes	29 230	35 508	42 352	31 876	32 935
Ferro-silico-manganese	tonnes	51 197	63 332	79 942	47 964	71 585
Ferro-molybdenum	tonnes	1 178	1 168	1 527	1 554	711
Ferro-phosphorus	tonnes	1 056	1 195	1 492	1 386	675
Ferro-silicon	tonnes	22 769	24 986	24 846	20 424	16 132
Ferro-vanadium	tonnes	313	480	445	418	313
Other ferro-alloys	tonnes	7 405	10 291	639	599	444
Silicon metal	tonnes	9 243	11 935	13 946	11 652	11 839
Ingots, blooms, billets	tonnes	298 314	569 057	679 404	584 305	157 799
Scrap	tonnes	238 113	289 956	313 907	465 978	596 733
Kaolin	tonnes	90 931	94 257	122 245	126 426	90 183
Lead						
Unwrought	tonnes	53 095	56 504	44 235	35 465	29 861
Scrap	tonnes	794	1 633	1 256	2 467	2 293
Lithium						
Oxides	tonnes	136	266	245	61	86
Carbonate	tonnes	128	252	184	162	137
Magnesite and magnesia						
Magnesite	tonnes	244	288	1 536	216	2 658
Magnesia	tonnes	71 550	103 092	109 810	109 646	81 304
Manganese						
Ores and concentrates	tonnes	38 845	6 017	32 984	54 087	1 930
Metal	tonnes	499	1 155	1 167	716	507
Mercury	kilograms	15 700	9 200	15 700	13 300	10 900
Mica	tonnes	547	918	1 118	880	1 134
Molybdenum						
Metal	tonnes	102	208	616	843	281
Nickel						
Mattes, sinters etc	tonnes	...	4	38	...	1 468
Scrap	tonnes	3	116	4 897	3 683	2 122
Unwrought (b)	tonnes	1 683	2 573	2 344	3 398	1 353
Crude petroleum	tonnes	17 639 489	19 479 284	20 778 118	20 949 949	19 959 321
Natural gas	tonnes	7 118 539	—	—	...	...

Poland

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Phosphate rock	tonnes	1 558 007	1 658 266	1 689 120	1 448 780	458 923
Platinum metals						
Platinum and platinum metals	kilograms	3 560	15 500	16 400	16 900	31 300
Potash						
Fertiliser salts	tonnes	621	1 066	...	...	...
Sulphate	tonnes	21 770	14 517	20 242	19 161	10 919
Chloride	tonnes	1 041 798	770 674	992 979	815 282	194 900
Other potassic fertilisers	tonnes	4 726	4 110	4 659	7 143	3 470
Rare earths						
Cerium compounds	tonnes	79	109	85	148	43
Other rare earth compounds	tonnes	39	74	63	58	16
Metals	tonnes	6	7	1	—	2
Salt	tonnes	376 829	582 080	313 297	356 929	483 243
Sillimanite minerals						
Sillimanite minerals	tonnes	9 975	21 196	23 321	16 975	7 852
Mullite	tonnes	2 207	2 012	4 956	3 728	1 040
Silver						
Metal	kilograms	40 100	28 800	77 000	95 200	122 900
Sulphur and pyrites						
Pyrites	tonnes	1 013	5 065	1 582	5 768	813
Sulphur	tonnes	78 274	83 432	74 805	104 300	35 350
Sulphur, sublimed and precipitated	tonnes	3	52	10	105	978
Talc	tonnes	20 536	22 348	23 122	28 186	18 325
Tantalum and niobium						
Tantalum	tonnes	1	0	3	52	1
Tin						
Concentrates	tonnes	...	3	77	...	220
Unwrought (b)	tonnes	1 437	1 583	1 838	1 857	1 102
Scrap	tonnes	705	1 653	1 931	1 038	1 664
Titanium						
Titanium minerals	tonnes	100 539	95 057	100 002	91 208	84 396
Metal	tonnes	328	2 550	2 122	451	264
Oxides	tonnes	33 417	36 943	45 984	41 019	42 031
Tungsten						
Metal	tonnes	108	111	108	103	87
Vanadium						
Metal	tonnes	32	41	...	...	...
Zinc						
Ores and concentrates	tonnes	78 746	129 551	127 720	150 283	130 258
Unwrought	tonnes	13 333	28 714	31 838	26 811	18 498
Unwrought alloys	tonnes	13 337	11 421	13 660	11 906	8 922
Scrap	tonnes	3 899	2 681	4 445	6 378	3 907
Zirconium						
Concentrates	tonnes	870	863	542	833	340

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Portugal

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	8 284 238	9 764 029	10 664 828	* 10 100 000	* 9 900 000
Crushed rock	tonnes	73 343 159	65 428 239	60 822 000	* 57 000 000	* 51 500 000
White arsenic	tonnes	* 15	* 15	* 15	* 15	* 15
Barytes	tonnes	21	24	25	171	1 078
Cement						
Cement clinker (a)	tonnes	1 450 646	1 484 856	1 513 487	1 760 510	1 749 406
Cement, finished (a)	tonnes	8 426 830	8 326 687	9 178 735	8 365 242	7 031 438
Copper, mine	tonnes (metal content)	89 541	78 576	90 182	89 026	86 462
Feldspar	tonnes	238 843	257 570	371 952	* 370 000	* 370 000
Gypsum	tonnes	389 180	366 599	418 035	372 731	* 400 000
Crude steel	tonnes	1 338 000	1 338 000	1 847 000	1 630 000	1 587 000
Kaolin	tonnes	164 072	167 792	183 598	231 346	270 450
Lead, refined	tonnes	3 000	3 000	5 000	5 000	4 000
Lithium Minerals						
Lepidolite	tonnes	26 185	28 497	34 755	34 888	38 500
Salt						
Rock salt	tonnes	597 945	586 190	590 588	606 545	576 723
Sea salt	tonnes	92 495	76 858	64 048	69 249	72 325
Silver, mine	kilograms (metal content)	23 786	20 078	26 514	28 825	22 472
Sulphur and pyrites						
Recovered	tonnes (sulphur content)	30 000	38 000	27 000	22 000	23 000
Talc	tonnes	5 362	5 517	12 367	11 220	11 567
Tin, mine	tonnes (metal content)	243	25	41	29	34
Tungsten, mine (b)	tonnes (metal content)	816	780	846	892	823
Zinc, mine	tonnes (metal content)	—	7 505	24 380	37 900	501

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	2005	2006	2007	2008	2009
Primary aggregates	tonnes	138 939	101 721	120 914	44 174	101 421
Aluminium and bauxite						
Unwrought alloys	tonnes	140 505	152 591	130 636	127 150	90 869
Scrap	tonnes	41 797	38 026	41 603	40 020	32 481
Antimony						
Metal	tonnes	1	646	267	60	119
Bentonite and fuller's earth						
Bentonite	tonnes	444	518	1 718	1 608	691
Cement						
Cement clinkers	tonnes	1 271 578	1 138 307	1 263 190	1 448 397	1 553 992
Portland cement	tonnes	1 110 739	1 204 981	1 481 219	1 102 589	758 854
Other cement	tonnes	17 301	11 364	58 931	11 139	15 231
Chromium						
Ores and concentrates	tonnes	1 111	591	295	70	—
Copper						
Ores and concentrates	tonnes	375 312	328 296	399 589	375 755	371 881
Unwrought	tonnes	9 356	918	227	600	2 098
Scrap	tonnes	33 583	29 736	24 566	22 184	20 213
Diamond						
Gem, cut	carats	£17 981 000	£8 000	£105 000	£55 000	£52 000
Diatomite	tonnes	11	286	943	554	473
Feldspar	tonnes	1 546	862	4 048	873	1 290
Gold						
Waste and scrap	kilograms	4 800	400	1 100	36 100	800

Portugal

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Gypsum						
Crude and calcined	tonnes	1 332	4 349	8 362	22 707	12 394
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	159 868	79 697	138 692	164 425	136 284
Scrap	tonnes	330 536	479 017	378 043	172 133	216 037
Kaolin	tonnes	31 484	46 494	70 580	47 562	51 014
Lead						
Unwrought	tonnes	1 269	2 018	3 092	4 950	6 647
Scrap	tonnes	4 127	9 471	9 961	3 105	2 222
Natural gas	tonnes	—	—	—	890 688	254 997
Platinum metals						
Waste and scrap	kilograms	...	...	33 500	...	—
Potash						
Potassic fertilisers	tonnes	1 056	42	80	240	402
Salt	tonnes	6 130	11 872	25 341	13 412	15 662
Silver						
Ores and concentrates	kilograms	...	...	4 000	13 500	11 500
Metal	kilograms	1 673	411	218	7 876	580
Sulphur and pyrites						
Sulphur	tonnes	28 122	9 747	15 410	7 539	5 737
Sulphur, sublimed and precipitated	tonnes	80	500	1	136	15
Talc	tonnes	1 614	6 013	4 243	3 841	2 699
Tantalum and niobium						
Tantalum	tonnes	15	4	63	48	49
Tin						
Unwrought alloys	tonnes	—	146	172	—	—
Scrap	tonnes	7	124	25	147	9
Titanium						
Oxides	tonnes	512	840	1 064	1 189	1 166
Tungsten						
Ores and concentrates	tonnes	1 425	1 305	1 466	1 705	1 407
Zinc						
Ores and concentrates	tonnes	...	13 035	40 950	75 414	371
Unwrought (a)	tonnes	127	706	242	1 307	849
Scrap	tonnes	2 050	2 023	3 345	2 910	1 646

Note(s)

(a) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	698 717	488 917	731 709	194 088	175 576
Aluminium and bauxite						
Alumina	tonnes	6 250	7 760	9 325	9 750	13 742
Unwrought	tonnes	13 941	16 292	16 859	17 732	15 200
Unwrought alloys	tonnes	224 631	237 617	214 990	214 614	149 759
Scrap	tonnes	2 651	1 487	3 994	2 409	15 819
Antimony						
Oxide	tonnes	137	166	172	161	146
Asbestos						
Unmanufactured	tonnes	356	...	...	0	...
Barytes	tonnes	5 382	3 099	1 934	3 806	3 744
Bentonite and fuller's earth						
Bentonite	tonnes	16 881	17 640	18 480	20 304	12 788
Fuller's earth	tonnes	483	379	...	...	...
Cement						
Cement clinkers	tonnes	17 084	140 673	331 025	196 929	24 156
Portland cement	tonnes	669 272	356 040	45 012	22 862	150 065
Other cement	tonnes	10 479	14 286	11 966	8 842	11 072
Chromium						
Ores and concentrates	tonnes	2 599	2 845	3 339	5 369	2 361
Metal	tonnes	18	336	55	53	28

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Coal						
Anthracite	tonnes	48 785	30 688	44 447	48 793	28 472
Other coal	tonnes	5 386 968	5 630 721	4 733 158	3 721 513	4 922 698
Copper						
Unwrought	tonnes	4 572	5 752	5 309	5 534	8 480
Scrap	tonnes	3 329	5 946	8 503	10 229	7 550
Diamond						
Gem, cut	carats	£7 015 000	£2 940 000	£3 435 000	£3 949 000	£1 756 000
Industrial	carats	£565 000	£381 000	£427 000	£296 000	£246 000
Dust	carats	3 816 540	4 641 090	8 473 445	5 891 661	5 514 973
Diatomite	tonnes	3 946	3 432	1 731	1 372	1 127
Feldspar	tonnes	115 286	98 106	108 150	85 400	72 275
Fluorspar	tonnes	1 633	2 530	2 423	1 828	2 243
Gold						
Metal	kilograms	5 488	3 224	2 003	1 535	1 077
Graphite	tonnes	1 722	1 954	2 210	1 493	73
Gypsum						
Crude	tonnes	79 370	96 070	75 794	89 627	81 971
Calcined	tonnes	361 284	307 953	320 174	298 708	244 809
Iodine	kilograms	12 000	1 400	900	100	8 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	19 713	15 149	17 468	13 824	7 507
Sponge and powder	tonnes	844	866	1 498	740	38 849
Ferro-chrome	tonnes	884	1 160	1 050	1 093	245
Ferro-silico-magnesium	tonnes	1 028	1 005	6 070	6 228	4 551
Ferro-manganese	tonnes	885	816	1 281	908	762
Ferro-silico-manganese	tonnes	10 021	12 779	9 835	10 063	9 921
Ferro-silicon	tonnes	3 028	3 341	3 355	3 479	3 707
Other ferro-alloys	tonnes	5 389	7 270	187	393	69
Silicon metal	tonnes	128	548	425	187	410
Ingots, blooms, billets	tonnes	10 538	14 494	84 769	26 532	53 089
Scrap	tonnes	653 988	1 056 949	1 075 517	1 128 391	887 110
Kaolin	tonnes	143 943	137 656	154 891	114 041	73 081
Lead						
Unwrought	tonnes	21 198	17 523	14 704	12 014	6 642
Magnesite and magnesia						
Magnesite	tonnes	1 012	1 269	924	1 521	697
Magnesia	tonnes	5 998	6 544	7 119	5 863	8 538
Manganese						
Ores and concentrates	tonnes	28	63	51	765	13
Mercury	kilograms	—	—	—	7 500	25 100
Mica	tonnes	193	630	284	125	139
Nickel						
Unwrought	tonnes	(a) 602	(a) 739	(a) 450	524	316
Crude petroleum	tonnes	12 941 851	13 479 579	12 386 104	12 050 226	10 193 366
Natural gas	tonnes	3 588 097	3 356 949	3 758 075	4 188 706	3 770 943
Phosphate rock	tonnes	137 423	91 912	114 826	90 667	44 189
Potash						
Sulphate	tonnes	3 631	3 227	4 223	1 869	1 574
Chloride	tonnes	65 682	58 237	51 600	38 200	25 525
Other potassic fertilisers	tonnes	2 780	2 141	1 629	1 708	5 389
Rare earths						
Rare earth compounds	tonnes	46	46	115	20	12
Metals	tonnes	4	5	0	0	...
Salt	tonnes	70 266	110 581	169 480	94 501	108 161
Sillimanite minerals	tonnes	160	192	293	646	573
Silver						
Metal	kilograms	54 309	36 450	30 616	22 678	18 602
Sulphur and pyrites						
Sulphur	tonnes	5 878	4 485	3 233	2 852	3 366
Talc	tonnes	23 583	30 955	36 089	26 774	18 537
Tantalum and niobium						
Tantalum	tonnes	115	103	69	83	22
Tin						
Unwrought	tonnes	971	763	577	487	308
Unwrought alloys	tonnes	100	274	419	130	103

Portugal

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Titanium						
Oxides	tonnes	17 458	18 565	19 545	18 800	18 456
Tungsten						
Metal	tonnes	179	106	122	251	193
Carbide	tonnes	105	97	119	169	46
Zinc						
Unwrought	tonnes	11 862	19 015	16 367	19 551	12 830
Unwrought alloys	tonnes	11 573	5 778	5 054	4 617	4 018
Zirconium						
Concentrates	tonnes	5 918	6 426	7 205	8 162	5 620

Note(s)

(a) Including alloys

Romania

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	17 030 886	21 817 372	26 276 857	31 377 110	17 424 115
Crushed rock	tonnes	2 328 165	3 373 384	5 905 842	4 635 010	4 214 806
Alumina	tonnes (Al ₂ O ₃ content)	689 329	622 083	22 830	344	44 000
Primary aluminium	tonnes	243 607	262 056	283 449	288 156	228 630
Bentonite and fuller's earth						
Bentonite	tonnes	18 190	21 165	16 911	16 638	13 694
Bismuth, mine	tonnes (metal content)	* 40	* 40	* 40	* 40	* 40
Cement						
Cement clinker	tonnes	464 613	606 088	222 699	111 719	—
Cement, finished	tonnes	7 032 100	8 198 090	9 844 706	10 461 456	2 871 757
Coal						
Anthracite and bituminous	tonnes	3 079 000	—	—	—	—
Lignite	tonnes	28 491 480	32 753 526	35 671 000	34 529 000	(a)* 30 000 000
Brown coal	tonnes	62 609	* 58 000	97 000	205 000	...
Copper, mine	tonnes (metal content)	16 286	12 535	2 213	308	1 200
Copper, refined	tonnes	20 739	21 583	18 589	15 300	14 500
Diatomite	tonnes	1 402	1 719	2 057	—	—
Feldspar	tonnes	74 927	33 100	41 477	22 995	* 20 000
Gold, mine	kilograms (metal content)	* 500	* 500	* 500	* 500	* 500
Graphite	tonnes	486	—	—	—	—
Gypsum	tonnes	532 867	615 072	1 004 150	832 248	* 800 000
Iron ore	tonnes	220 788	122 684	8 157	—	—
Pig iron	tonnes	4 097 998	3 945 975	3 923 244	2 957 715	1 575 000
Crude steel	tonnes	6 280 000	6 266 036	6 269 486	5 035 164	2 761 000
Ferro-alloys						
Ferro-chrome	tonnes	—	—	—	6 179	...
Ferro-manganese	tonnes	18 625	3 777	—	—	—
Ferro-silico-manganese	tonnes	100 957	66 476	26 868	9 979	...
Kaolin	tonnes	26 772	11 063	7 576	3 060	...
Lead, mine	tonnes (metal content)	11 610	6 269	784	—	—
Lead, refined	tonnes	37 900	34 133	39 369	39 596	6 000
Manganese ore	tonnes	72 000	60 107	49 350	43 590	* 40 000
Crude petroleum	tonnes	5 215 000	4 777 000	4 837 000	4 528 000	4 494 000
Natural gas	million m ³	12 637	12 422	11 981	11 520	10 900
Salt	tonnes	2 442 640	2 621 129	2 475 349	2 526 774	* 2 500 000
Silver, mine	kilograms (metal content)	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Sulphur and pyrites						
Recovered	tonnes (sulphur content)	79 000	60 000	64 000	61 000	74 000
Talc	tonnes	6 760	2 967	1 513	1 843	* 2 000
Uranium, mine	tonnes (metal content)	* 90	* 90	* 77	* 77	* 75
Zinc, mine	tonnes (metal content)	13 784	8 052	849	14	—
Slab Zinc	tonnes	56 795	43 705	58 342	61 978	1 000

Note(s)

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

(a) Including brown coal

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	63 110	51 793	111 803	60 190	160 241
Aluminium and bauxite						
Bauxite	tonnes	8 967	129	47	526	161
Alumina	tonnes	261 862	137 753	5 191	0	99
Unwrought	tonnes	31 543	12 672	23 193	61 638	50 496
Unwrought alloys	tonnes	7 711	10 110	9 080	6 690	5 898
Scrap	tonnes	4 829	11 132	14 332	16 021	20 775
Bentonite and fuller's earth						
Bentonite	tonnes	7 154	521	68	10	31
Cement						
Cement clinkers	tonnes	465 660	608 616	243 116	111 719	182
Portland cement	tonnes	739 215	447 713	134 044	7 449	17 869
Coal						
Hard coal (a)	tonnes	661	7 997	67 304	5 331	19 771
Copper						
Ores and concentrates	tonnes	84 084	72 900	23 689	33 391	6 711
Matte and cement	tonnes	...	2 818	11 569	8 494	4 502
Scrap	tonnes	22 665	41 911	35 856	39 733	42 148
Feldspar	tonnes	28 859	20 563	25 102	16 438	8 375
Gypsum						
Crude and calcined	tonnes	15 089	14 283	13 507	13 069	17 966
Iron ore						
Iron ore	tonnes	...	...	...	...	172 372
Burnt pyrites	tonnes	...	1	24 068	15 567	12 694
Iron, steel and ferro-alloys						
Pig iron	tonnes	...	...	...	...	—
Sponge and powder	tonnes	12 522	12 851	17 832	18 697	18 807
Ferro-silico-manganese	tonnes	142 617	41 000	33 529	5 793	8 120
Other ferro-alloys	tonnes	8 657	3 561	872	1 493	6 273
Ingots, blooms, billets	tonnes	100 515	87 685	183 551	220 136	51 644
Scrap	tonnes	1 661 747	1 862 498	1 963 213	1 985 977	2 565 443
Lead						
Ores and concentrates	tonnes	25 012	18 104	10 501	17 396	15 759
Unwrought	tonnes	22 120	18 786	23 289	22 752	9 049
Scrap	tonnes	3 295	4 389	4 659	2 997	2 526
Magnesite and magnesia						
Magnesia	tonnes	231	277	351	440	381
Manganese						
Metal	tonnes	...	1	3 024	6 666	—
Nickel						
Scrap	tonnes	61	72	90	1 397	1 089
Salt	tonnes	598 154	503 629	506 641	486 040	372 501
Sulphur and pyrites						
Pyrites	tonnes	42	73	0	994	6 315
Sulphur	tonnes	54 917	43 255	45 579	59 030	49 052
Titanium						
Metal	tonnes	255	579	650	2 469	541
Zinc						
Ores and concentrates	tonnes	26 611	16 796	4 043	503	24 528
Unwrought (b)	tonnes	42 012	32 008	48 339	59 395	8 004
Scrap	tonnes	1 073	228	1 348	442	1 615

Note(s)

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	197 911	332 190	352 576	351 123	205 133
Aluminium and bauxite						
Bauxite	tonnes	1 655 045	1 597 023	75 934	45 527	104 404
Alumina	tonnes	27 498	28 342	482 375	487 304	353 846
Alumina hydrate	tonnes	1 852	15 253	16 927	17 822	7 996
Unwrought (a)	tonnes	2 849	4 151	10 191	16 416	17 383
Scrap	tonnes	565	436	3 833	598	3 838
Antimony						
Metal	tonnes	55	43	68	30	36
Oxide	tonnes	73	97	190	153	87
Asbestos						
Unmanufactured	tonnes	9 077	3 272	0	1	...
Barytes	tonnes	5 747	7 604	14 040	25 475	8 351
Bentonite and fuller's earth						
Bentonite	tonnes	3 805	4 685	5 253	6 014	3 859
Fuller's earth	tonnes	321	358	...	...	...
Bromine (b)	kilograms	9 827	9 104	152 319	267 073	285 593
Cement						
Cement clinkers	tonnes	50	280	500 794	486 462	23 613
Portland cement	tonnes	167 686	102 759	142 476	538 259	296 687
Other cement	tonnes	1 653	3 085	12 072	32 765	15 779
Chromium						
Ores and concentrates	tonnes	2 828	1 675	1 856	77 546	705
Metal	tonnes	245	958	78	64	39
Coal						
Anthracite	tonnes	82 683	60 272	68 924	110 484	56 296
Other coal	tonnes	3 681 406	3 398 344	4 421 709	3 008 391	937 077
Lignite	tonnes	367 781	620 251	575 514	121 227	62 469
Briquettes	tonnes	282	95	237 051	148 890	102 372
Copper						
Unwrought	tonnes	9 723	12 794	25 093	22 116	10 926
Scrap	tonnes	1 528	2 946	1 710	4 197	437
Diatomite	tonnes	3 183	3 707	3 254	3 798	2 477
Feldspar	tonnes	39 448	31 433	48 999	49 160	37 639
Fluorspar	tonnes	6 285	3 915	4 738	2 526	1 481
Graphite	tonnes	548	488	542	304	144
Gypsum						
Crude	tonnes	28 044	53 211	66 231	90 194	45 891
Calcined	tonnes	40 983	65 441	77 900	100 471	62 134
Iodine	kilograms	1 054	1 107	2 636	1 395	330
Iron ore						
Iron ore	tonnes	6 601 393	6 054 765	6 259 705	5 003 811	1 597 033
Burnt pyrites	tonnes	...	62 505	2 824	17 770	11 572
Iron, steel and ferro-alloys						
Pig iron	tonnes	19 339	9 872	53 779	37 889	61 027
Sponge and powder	tonnes	1 231	1 415	2 446	3 203	1 518
Ferro-chrome	tonnes	5 286	3 022	2 838	3 423	984
Ferro-manganese	tonnes	38 323	36 872	34 126	28 773	9 063
Ferro-silico-manganese	tonnes	18 752	18 432	37 558	17 919	11 461
Ferro-silicon	tonnes	17 170	17 152	21 156	13 190	4 998
Other ferro-alloys	tonnes	3 048	3 167	3 191	2 412	1 508
Silicon metal	tonnes	2 813	8 947	1 192	3 155	1 104
Ingots, blooms, billets	tonnes	448 454	633 196	922 499	757 551	109 046
Scrap	tonnes	545	9 867	15 771	17 886	4 204
Kaolin	tonnes	55 653	54 862	51 347	48 422	40 326
Lead						
Ores and concentrates	tonnes	31 085	13 288	17 064	27 055	5 889
Unwrought	tonnes	1 620	1 400	835	872	9 245
Magnesite and magnesia						
Magnesite	tonnes	155	516	187	139	1
Magnesia	tonnes	27 088	27 447	19 666	13 003	7 427
Manganese						
Ores and concentrates	tonnes	357 327	3 134	79	16 432	16
Metal	tonnes	427	1 000	3 030	646	527
Mercury	kilograms	20 288	49 623	80 000	2 300	400
Mica	tonnes	886	912	478	488	441

Romania

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Nickel						
Unwrought (a)	tonnes	745	747	528	338	288
Crude petroleum	tonnes	8 688 818	8 678 466	8 533 821	8 419 364	6 893 956
Natural gas	tonnes	4 140 078	4 048 749	8 877 219	7 757 273	1 451 767
Phosphate rock	tonnes	283 192	148 110	193 276	225 581	103 500
Potash						
Sulphate	tonnes	757	6 361	4 086	5 133	19 592
Chloride	tonnes	41 974	35 384	50 558	68 877	5 119
Other potassic fertilisers	tonnes	563	491	1 058	338	374
Rare earths						
Rare earth compounds	tonnes	22	8	9	6	5
Salt	tonnes	131 683	113 585	111 681	92 815	82 569
Silver						
Metal (c)	kilograms	* 17 700	* 18 600	* 7 700	* 9 400	* 8 800
Sulphur and pyrites						
Pyrites	tonnes	...	...	3	1 072	1
Sulphur	tonnes	964	1 413	1 959	2 390	1 884
Sulphur, sublimed and precipitated	tonnes	113	112	2	180	1 254
Talc	tonnes	1 962	2 101	2 006	1 971	1 105
Tin						
Unwrought (a)	tonnes	216	421	137	127	114
Titanium						
Titanium minerals	tonnes	2 111	1 809	2 093	2 171	1 513
Metal	tonnes	328	486	612	453	707
Oxides	tonnes	7 600	9 794	11 132	9 127	7 151
Tungsten						
Metal	tonnes	7	7	59	1 122	22
Zinc						
Ores and concentrates	tonnes	150 282	137 878	173 536	161 527	12
Unwrought (a)	tonnes	14 640	23 732	13 135	7 394	10 523
Zirconium						
Concentrates	tonnes	552	766	303	437	190
Metal	tonnes	22	32	16	136	301

Note(s)

(a) Including alloys

(b) May include some fluorine

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

Slovakia

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	6 807 116	7 522 034	6 470 725	7 517 655	* 6 919 826
Crushed rock	tonnes	13 834 800	14 088 600	13 338 000	16 345 800	15 233 400
Primary aluminium	tonnes	159 203	158 289	160 461	162 995	149 604
Asbestos	tonnes	1 000	1 000	400	200	—
Barytes	tonnes	26 589	57 000	58 000	20 000	30 000
Bentonite and fuller's earth						
Bentonite	tonnes	97 000	136 000	149 000	145 000	109 000
Cement						
Cement, finished	tonnes	3 498 685	3 592 509	3 718 410	4 157 356	3 011 460
Coal						
Lignite	tonnes	35 000	6 000	20 000	87 000	115 000
Brown coal	tonnes	2 268 000	2 016 000	1 839 000	2 075 000	2 106 000
Feldspar	tonnes	3 000	3 000	—	10 000	13 000
Gold, mine	kilograms (metal content)	109	84	92	198	346
Gypsum (a)	tonnes	107 500	126 200	151 000	152 000	131 000
Iron ore	tonnes	534 000	583 000	570 000	392 000	...
Pig iron	tonnes	3 681 000	4 145 000	4 012 000	3 529 000	3 019 000
Crude steel	tonnes	4 485 000	5 093 000	5 082 000	4 489 000	3 747 000
Ferro-alloys						
Ferro-chrome	tonnes	867	19	—	—	—
Ferro-silico-manganese	tonnes	47 843	59 128	71 587	59 940	...
Ferro-silicon	tonnes	16 512	16 155	8 583	10 844	...
Other ferro-alloys	tonnes	48 161	65 498	74 065	61 194	...
Kaolin	tonnes	31 000	58 000	46 000	44 000	10 000
Magnesite	tonnes	920 100	941 100	957 000	806 500	477 600
Perlite	tonnes	8 630	10 560	20 000	25 000	25 000
Crude petroleum	tonnes	35 000	30 520	23 000	21 000	19 000
Natural gas	million m ³	211	135	195	111	114
Salt	tonnes	105 100	122 500	117 000	109 510	41 000
Silver, mine	kilograms (metal content)	65	74	50	198	201
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	5 000	5 000	5 000	5 000	5 000
Recovered (c)	tonnes (sulphur content)	65 000	65 000	78 000	75 000	71 000
Talc	tonnes	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	2005	2006	2007	2008	2009
Primary aggregates (a)	tonnes	* 796 000	* 644 000	* 744 000	* 1 388 000	* 758 000
Aluminium and bauxite						
Unwrought	tonnes	15 302	66 893	61 319	44 845	77 013
Unwrought alloys	tonnes	159 134	93 141	118 286	129 771	110 484
Scrap	tonnes	8 042	9 876	10 421	10 109	9 441
Barytes	tonnes	7 876	13 843	9 174	685	6 309
Bentonite and fuller's earth						
Bentonite	tonnes	76 014	105 273	89 517	79 936	65 429
Fuller's earth	tonnes	1 757	...	...	...	...
Cement						
Cement clinkers	tonnes	26 549	27 092	30 800	53 871	127 016
Portland cement	tonnes	1 433 926	1 372 554	1 346 692	1 622 292	1 344 258
Other cement	tonnes	44 670	35 596	85 987	144 311	217 328

Slovakia

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Chromium						
Metal	tonnes	1 876	1 735	1 116	1 299	424
Coal						
Hard coal (b)	tonnes	33 608	33 665	26 600	30 131	122 287
Copper						
Unwrought	tonnes	19 130	27 178	34 232	35 141	29 972
Scrap	tonnes	14 752	18 821	23 502	21 144	15 114
Gold						
Metal	kilograms	268	569	300	800	100
Waste and scrap	kilograms	986	1 000	1 600	800	1 200
Iron ore	tonnes	8 581	141 448	4 353	53 434	5 923
Iron, steel and ferro-alloys						
Pig iron	tonnes	31 261	50 497	10 588	20 676	29 779
Ferro-manganese	tonnes	41 918	59 475	49 723	48 747	19 204
Ferro-silico-manganese	tonnes	51 623	73 050	62 898	55 873	37 792
Ferro-silicon	tonnes	29 130	25 240	16 437	21 352	15 823
Other ferro-alloys	tonnes	10 741	8 033	13 604	15 436	5 277
Ingots, blooms, billets	tonnes	289 090	654 743	508 620	241 811	255 917
Scrap	tonnes	390 620	524 597	404 401	525 777	318 290
Kaolin	tonnes	2 332	10 946	12 546	593	1 425
Lead						
Unwrought	tonnes	1 662	98	221	94	247
Magnesite and magnesia						
Magnesite (a)	tonnes	* 8 000	* 3 000	* 6 000	* 9 300	* 7 400
Magnesia	tonnes	385 312	394 826	444 539	409 295	261 876
Nickel						
Unwrought	tonnes	...	128	72	259	201
Scrap	tonnes	...	134	116	1 061	140
Crude petroleum	tonnes	30 887	27 686	22 172	18 159	14 932
Natural gas	tonnes	257 026	221 885	124 820	112 328	334 205
Phosphate rock	tonnes	438	2 603	—	...	48
Potash						
Potassic fertilisers	tonnes	26	...	1 407	434	74
Salt	tonnes	53 451	51 566	51 517	62 133	4 606
Silver						
Metal	kilograms	1 872	3 430	35 036	6 061	2 700
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	60 776	63 019	75 817	71 373	72 613
Talc	tonnes	1 051	1 011	1 494	1 994	45
Tin						
Unwrought	tonnes	59	(c) 251	20	107	(c) 9
Titanium						
Metal	tonnes	13	28	5	76	3
Tungsten						
Metal	tonnes	16	66	2	9	4
Zinc						
Unwrought	tonnes	3 522	5 232	16 356	14 600	12 871
Unwrought alloys	tonnes	3 618	14 053	7 147	10 412	11 365

Note(s)

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

(b) Including anthracite

(c) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	828 096	665 844	633 400	755 496	692 609
Aluminium and bauxite						
Bauxite	tonnes	3 669	5 886	7 524	5 778	5 443
Alumina	tonnes	307 756	314 576	311 914	311 891	288 753
Unwrought (a)	tonnes	31 683	31 521	52 718	41 681	27 853
Scrap	tonnes	12 567	8 550	8 748	4 638	1 760
Antimony						
Oxide	tonnes	118	82	104	48	35
Barytes	tonnes	814	872	147	142	99
Bentonite and fuller's earth						
Bentonite	tonnes	6 863	6 916	7 145	8 987	5 890
Fuller's earth	tonnes	1 082	886	...	...	...
Bromine	kilograms	400	9 700	2 600	(b) 582	(b) 2 470
Cement						
Cement clinkers	tonnes	68 894	42 666	52 608	94 510	13 076
Portland cement	tonnes	88 403	98 625	123 589	172 555	284 457
Other cement	tonnes	49 619	56 418	58 035	93 031	56 060
Chromium						
Ores and concentrates	tonnes	12 475	11 252	16 819	11 969	2 533
Metal	tonnes	55	11	20	104	52
Coal						
Anthracite	tonnes	112 482	38 147	176 682	258 597	264 286
Other coal	tonnes	5 249 848	4 411 685	4 802 258	4 253 530	3 828 520
Lignite	tonnes	704 690	889 241	725 586	983 151	693 786
Briquettes	tonnes	33 067	12 150	5 813	6 733	7 877
Cobalt						
Metal	tonnes	5	13	37	1 020	19
Oxides	tonnes	4	...	0	0	5 327
Copper						
Matte and cement	tonnes	4 342	1 071	...	...	3 300
Unwrought	tonnes	1 718	2 084	1 557	4 120	4 685
Scrap	tonnes	19 977	17 973	17 476	17 350	29 141
Diatomite	tonnes	675	698	549	577	901
Feldspar	tonnes	36 989	30 726	27 548	24 788	16 352
Fluorspar	tonnes	1 615	1 543	908	1 143	644
Gold						
Metal	kilograms	42 001	13 901	92 400	74 800	208 400
Graphite	tonnes	1 031	1 382	2 246	2 981	962
Gypsum						
Crude	tonnes	76 298	85 408	88 083	111 188	53 104
Calcined	tonnes	39 836	26 794	29 894	47 044	52 703
Iron ore	tonnes	5 513 902	6 406 019	5 853 880	4 802 516	4 499 385
Iron, steel and ferro-alloys						
Pig iron	tonnes	39 400	59 145	59 778	70 034	19 468
Sponge and powder	tonnes	13 852	25 064	52 697	* 144 000	4 090
Ferro-chrome	tonnes	2 630	2 597	9 818	7 539	2 635
Ferro-manganese	tonnes	14 245	23 409	20 410	19 503	16 912
Ferro-silico-manganese	tonnes	1 480	3 016	977	2 776	2 720
Ferro-niobium	tonnes	393	849	906	897	154
Ferro-silicon	tonnes	21 742	19 395	26 142	23 747	14 970
Other ferro-alloys	tonnes	4 044	5 216	3 874	5 408	1 747
Silicon metal	tonnes	6 279	5 416	6 004	6 391	4 460
Ingots, blooms, billets	tonnes	10 753	17 086	20 708	18 953	54 781
Scrap	tonnes	197 550	243 822	257 815	217 558	164 985
Kaolin	tonnes	94 705	100 551	87 956	95 911	58 509
Magnesite and magnesia						
Magnesite	tonnes	1 440	3 947	3 520	3 401	2 906
Magnesia	tonnes	21 927	27 280	36 768	40 675	12 731
Manganese						
Ores and concentrates	tonnes	273 270	308 417	253 048	211 653	74 712
Metal	tonnes	146	445	313	350	395
Mercury	kilograms	3 457	3 100	3 400	5 200	4 500
Molybdenum						
Metal	tonnes	37	3	5	24	106
Nickel						
Unwrought (a)	tonnes	274	221	139	190	120

Slovakia

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Crude petroleum	tonnes	5 421 866	5 878 819	6 141 203	5 778 688	5 787 725
Natural gas	tonnes	5 177 312	5 157 793	4 249 360	4 640 012	4 820 301
Phosphate rock	tonnes	5 415	494	267	251	258
Platinum metals						
Platinum	kilograms	60	23 016	348 975	1 573 410	1 075 100
Potash						
Chloride	tonnes	28 400	31 791	29 514	28 757	3 931
Other potassic fertilisers	tonnes	576	1 752	2 375	1 832	294
Rare earths						
Rare earth compounds	tonnes	10	8	8	5	8
Salt	tonnes	320 413	299 087	182 234	189 268	168 211
Sillimanite minerals	tonnes	4 312	2 069	3 299	1 919	1 812
Silver						
Metal	kilograms	57 439	6 400	12 200	8 200	9 000
Sulphur and pyrites						
Sulphur	tonnes	3 669	3 454	4 339	4 553	2 462
Sulphur, sublimed and precipitated	tonnes	689	266	753	1 518	1 046
Talc	tonnes	1 552	4 174	1 344	2 448	1 030
Tin						
Unwrought (a)	tonnes	2 610	2 246	2 260	2 276	2 059
Titanium						
Titanium minerals	tonnes	17 627	12 648	17 242	...	...
Metal	tonnes	980	179	250	329	130
Oxides	tonnes	2 804	2 742	2 193	2 389	2 949
Zinc						
Unwrought (a)	tonnes	43 437	45 143	44 959	41 003	28 863

Note(s)

(a) Including alloys

(b) May include some fluorine

Slovenia

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	12 432 000	17 873 000	21 548 000	19 171 000	15 720 000
Crushed rock	tonnes	12 223 182	14 213 319	14 279 253	14 982 560	13 609 727
Primary aluminium	tonnes	138 500	118 100	111 016	83 300	35 148
Cement						
Cement, finished	tonnes	1 114 000	1 269 000	* 1 300 000	* 1 300 000	* 1 000 000
Coal						
Lignite	tonnes	3 945 100	3 932 842	4 037 766	4 008 440	3 921 750
Brown coal	tonnes	594 456	587 912	483 417	488 828	510 769
Crude steel	tonnes	583 000	628 000	638 000	642 000	428 000
Ferro-alloys						
Ferro-silicon	tonnes	15 529	12 550	* 6 000	* —	* —
Lead, refined	tonnes	15 000	15 000	15 000	15 000	14 000
Natural gas	million m ³	6	4	3	3	3
Salt	tonnes	803	1 624	3 029	535	2 924

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	221 830	324 830	437 208	402 033	451 012
Aluminium and bauxite						
Bauxite	tonnes	...	2 650	8 013	450	2 537
Alumina	tonnes	205 584	241 631	243 062	258 238	242 215
Unwrought alloys	tonnes	123 555	133 005	123 041	88 038	61 800
Scrap	tonnes	21 103	27 584	30 132	26 863	23 382
Bentonite and fuller's earth						
Bentonite	tonnes	...	107	196	142	284
Cement						
Cement clinkers	tonnes	58 765	21 440	2	1	—
Portland cement	tonnes	56 776	73 187	55 803	77 656	96 736
Other cement	tonnes	63 732	115 104	156 183	227 400	97 258
Coal						
Lignite	tonnes	6 881	29 794	2 150	377	4 615
Cobalt						
Metal	tonnes	42	16	31	24	50
Copper						
Unwrought	tonnes	72	244	163	244	1 376
Scrap	tonnes	13 054	15 922	17 810	15 606	17 991
Gold						
Metal	kilograms	101	100	1 300	3 000	129
Waste and scrap	kilograms	—	3 700	—	—	200
Gypsum						
Crude and calcined	tonnes	993	9 502	36 039	8 575	6 575
Iron, steel and ferro-alloys						
Pig iron	tonnes	752	3 511	14 942	24 639	4 412
Ferro-silicon	tonnes	24 290	26 859	15 277	20 826	6 628
Other ferro-alloys	tonnes	27 120	22 497	24 205	12 516	9 989
Silicon metal	tonnes	252	3 006	1 875	1 149	3 049
Ingots, blooms, billets	tonnes	12 647	12 273	31 849	21 006	12 296
Scrap	tonnes	225 627	222 403	245 869	199 016	284 958
Lead						
Unwrought	tonnes	5 818	6 524	8 860	6 960	6 891
Scrap	tonnes	572	843	1 415	391	325
Lithium						
Carbonate	tonnes	96	96	110	122	128
Magnesite and magnesia						
Magnesia	tonnes	...	206	257	...	344
Manganese						
Metal	tonnes	2 584	228	236	58	21
Natural gas	tonnes	72 043	54 579	34 212	24 368	3

Slovenia

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Nickel						
Unwrought (a)	tonnes	117	118	232	268	117
Phosphate rock	tonnes	189 207	140 281	109 350	164 848	56 973
Platinum metals						
Platinum and platinum metals	kilograms	47	248	84	110	400
Rare earths						
Cerium compounds	tonnes	...	...	2	1	1
Salt	tonnes	8 034	20 702	18 280	20 590	15 671
Silver						
Metal	kilograms	6 382	3 100	5 200	8 800	1 600
Titanium						
Metal	tonnes	21	36	37	40	23
Oxides	tonnes	44 123	50 755	55 867	55 110	57 866
Zinc						
Unwrought	tonnes	180	(a) 1 553	(a) 1 557	(a) 1 937	(a) 1 469
Scrap	tonnes	803	846	873	975	517
Zirconium						
Concentrates	tonnes	1 009	1 186	509	202	22

Note(s)

(a) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	364 091	863 881	3 113 823	1 424 240	1 165 083
Aluminium and bauxite						
Bauxite	tonnes	47 935	51 064	63 229	40 006	13 966
Alumina	tonnes	450 273	480 454	466 163	438 579	302 520
Alumina hydrate	tonnes	23 581	24 102	28 628	27 121	20 629
Unwrought	tonnes	73 137	48 337	65 589	67 405	62 162
Unwrought alloys	tonnes	46 782	60 484	58 215	50 389	34 530
Scrap	tonnes	47 381	50 865	52 338	51 319	37 677
Antimony						
Metal	tonnes	137	98	110	71	50
Arsenic						
Metallic arsenic	tonnes	5	12	11	—	3
Barytes	tonnes	845	1 044	585	596	530
Bentonite and fuller's earth						
Bentonite	tonnes	3 612	4 981	4 048	3 976	4 421
Bismuth						
Metal	tonnes	69	66	90	60	24
Cement						
Cement clinkers	tonnes	1 343	11 970	145 638	5 783	60
Portland cement	tonnes	215 473	249 749	328 312	326 096	297 617
Other cement	tonnes	2 906	6 917	17 037	4 618	17 414
Chromium						
Ores and concentrates	tonnes	446	1 414	986	999	1 005
Metal	tonnes	122	97	85	313	143
Coal						
Hard coal (a)	tonnes	51 173	47 221	83 100	74 508	33 143
Lignite	tonnes	543 465	614 851	567 139	833 308	507 013
Cobalt						
Metal	tonnes	209	209	96	93	149
Copper						
Unwrought	tonnes	2 764	3 150	2 809	2 649	2 826
Scrap	tonnes	5 762	9 000	10 431	9 687	11 452
Diamond						
Dust	carats	1 136 505	1 287 165	1 670 815	1 395 416	722 777
Diatomite	tonnes	846	738	686	644	550
Feldspar	tonnes	5 852	5 813	6 877	6 576	8 899
Fluorspar	tonnes	1 031	1 184	1 017	1 326	1 064

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Gold						
Metal	kilograms	239	445	600	1 700	400
Waste and scrap	kilograms	214	1 533	100	9	1 210
Graphite	tonnes	112	161	108	141	89
Gypsum						
Crude	tonnes	29 388	31 312	38 588	24 660	5 565
Calcined	tonnes	7 429	8 167	7 936	8 622	9 432
Iron, steel and ferro-alloys						
Pig iron	tonnes	32 217	70 254	102 973	68 153	24 031
Ferro-chrome	tonnes	23 308	26 992	23 645	25 665	15 951
Ferro-manganese	tonnes	4 410	4 467	6 061	5 663	4 157
Ferro-silico-manganese	tonnes	2 443	3 691	4 789	3 373	3 467
Ferro-molybdenum	tonnes	550	539	569	540	410
Ferro-nickel	tonnes	2 321	2 457	2 364	538	...
Ferro-silicon	tonnes	13 486	17 937	14 017	24 651	11 335
Other ferro-alloys	tonnes	8 111	10 027	4 914	5 402	2 581
Silicon metal	tonnes	6 393	9 945	7 654	6 536	4 929
Ingots, blooms, billets	tonnes	3 505	3 444	11 479	12 930	1 568
Scrap	tonnes	434 585	434 330	363 362	367 968	281 950
Kaolin	tonnes	25 928	24 389	28 363	25 682	20 776
Lead						
Unwrought	tonnes	10 262	8 897	12 761	14 103	13 036
Scrap	tonnes	1 382	2 946	5 191	1 556	1 985
Lithium						
Oxides	tonnes	116	115	144	186	139
Magnesite and magnesia						
Magnesite	tonnes	391	166	123	113	79
Magnesia	tonnes	9 500	8 312	7 994	8 159	4 267
Manganese						
Ores and concentrates	tonnes	6	4	187	10	9
Metal	tonnes	294	435	388	438	264
Molybdenum						
Ores and concentrates	tonnes	5 674	700	876	690	292
Natural gas	tonnes	851 258	811 065	807 877	750 581	748 930
Nickel						
Unwrought (b)	tonnes	929	874	967	2 686	2 020
Phosphate rock	tonnes	...	140 455	109 768	164 872	56 969
Platinum metals						
Platinum and platinum metals	kilograms	120	449	177	177	132
Potash						
Potassic fertilisers	tonnes	1 704	2 465	1 973	2 166	766
Rare earths						
Rare earth compounds	tonnes	4	27	4	3	2
Metals	tonnes	139	96	139	88	55
Salt	tonnes	207 314	232 017	148 352	190 017	239 191
Silver						
Metal	kilograms	42 380	19 700	27 800	45 000	17 800
Sulphur and pyrites						
Pyrites	tonnes	400	463	612	683	353
Sulphur	tonnes	58 287	58 159	53 434	56 381	53 615
Sulphur, sublimed and precipitated	tonnes	88	135	1	7	1
Talc	tonnes	5 357	5 297	5 301	12 860	13 756
Tin						
Unwrought (b)	tonnes	151	73	101	87	69
Titanium						
Titanium minerals	tonnes	21 054	22 825	14 903	34 930	32 789
Titanium slag	tonnes	...	64 246	53 245	65 180	66 818
Metal	tonnes	614	392	348	257	233
Oxides	tonnes	3 157	3 153	3 500	3 296	2 889
Vanadium						
Metal	tonnes	14	26	...	...	...
Zinc						
Unwrought	tonnes	15 015	17 571	16 696	14 881	16 766
Unwrought alloys	tonnes	6 701	11 864	11 711	8 938	6 180

Slovenia

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Zirconium Concentrates	tonnes	625	443	550	548	227

Note(s)

(a) Including anthracite

(b) Including alloys

Spain

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	125 299 480	130 000 000	143 000 000	118 000 000	105 000 000
Crushed rock	tonnes	340 000 000	355 000 000	280 000 000	214 000 000	130 000 000
Alumina	tonnes (Al ₂ O ₃ content)	* 1 400 000	* 1 400 000	* 1 300 000	* 1 300 000	* 1 300 000
Primary aluminium	tonnes	394 200	367 400	405 100	405 800	334 600
Barytes	tonnes	42 792	45 001	26 770	11 100	2 814
Bentonite and fuller's earth						
Bentonite	tonnes	163 290	154 746	147 253	154 534	* 140 000
Attapulgitite	tonnes	20 565	20 933	24 615	27 348	21 110
Sepiolite	tonnes	807 820	806 345	717 728	737 659	573 937
Bromine	kilograms	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Cement						
Cement clinker (a)	tonnes	482 536	540 482	579 236	2 011 830	2 961 500
Cement, finished	tonnes	50 300 000	54 032 770	54 720 445	42 088 110	42 000 000
Coal						
Anthracite	tonnes	3 888 838	3 775 504	3 485 083	3 152 550	4 060 194
Bituminous	tonnes	4 664 589	4 572 350	4 387 416	4 085 652	2 891 839
Sub-bituminous	tonnes	3 354 014	3 221 083	3 128 081	2 890 230	2 453 963
Lignite	tonnes	7 587 113	6 859 641	6 112 946	—	—
Copper, mine	tonnes (metal content)	7 358	8 700	6 281	7 071	17 663
Copper, smelter	tonnes	284 215	263 662	257 348	259 897	264 971
Copper, refined	tonnes	313 105	299 146	308 372	319 050	329 356
Diatomite (b)	tonnes	39 101	52 123	45 480	46 192	* 45 000
Feldspar	tonnes	650 061	696 912	683 134	690 256	* 550 000
Fluorspar	tonnes	144 126	144 845	155 197	148 736	122 408
Gold, mine	kilograms (metal content)	2 145	1 565	—	—	—
Gypsum	tonnes	14 453 053	14 596 559	14 535 422	11 955 753	* 9 000 000
Iron ore	tonnes	—	—	—	—	—
Pig iron	tonnes	4 160 000	3 432 000	3 976 000	3 995 000	2 920 000
Crude steel	tonnes	17 825 000	18 391 000	18 998 000	18 640 000	14 357 000
Ferro-alloys						
Ferro-manganese	tonnes	* 35 000	* 35 000	* 35 000	* 35 000	* 35 000
Ferro-silico-manganese	tonnes	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Ferro-silicon	tonnes	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Silicon metal	tonnes	* 25 000	* 25 000	* 25 000	* 25 000	* 25 000
Kaolin (c)	tonnes	463 398	476 327	489 428	355 739	337 900
Lead, refined	tonnes	110 000	129 000	128 000	125 000	130 000
Lithium minerals						
Lepidolite	tonnes	6 751	8 339	10 326	9 342	* 7 000
Magnesite	tonnes	556 129	520 646	463 850	* 440 700	* 434 000
Mica (d)	tonnes	4 043	4 496	5 569	4 254	* 4 000
Nickel, mine	tonnes (metal content)	5 380	6 398	6 630	8 136	8 029
Crude petroleum	tonnes	166 014	143 432	142 879	127 542	106 817
Natural gas	million m ³	174	118	42	46	20
Potash						
Chloride	tonnes (K ₂ O content)	494 594	493 189	531 739	472 952	481 455
Salt						
Rock salt	tonnes	2 909 526	2 809 046	2 709 545	2 909 907	2 254 543
Sea salt	tonnes	1 368 960	1 506 343	1 332 360	1 290 672	1 207 544
Other salt	tonnes	121 461	115 826	102 524	102 149	91 793
Silver, mine	kilograms (metal content)	5 227	2 369	—	—	—
Strontium minerals	tonnes	336 630	280 195	142 512	138 590	57 466
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	541 000	547 000	543 000	551 000	533 000
Recovered (f)	tonnes (sulphur content)	* 115 000	* 100 000	* 100 000	* 100 000	* 100 000
Talc						
Talc	tonnes	90 589	83 502	78 042	59 299	47 218
Pyrophyllite	tonnes	700	—	—	—	—
Tungsten, mine	tonnes (metal content)	—	—	—	194	284

Spain

Production continued

Commodity	Units	2005	2006	2007	2008	2009
Wollastonite	tonnes	* 30 000	* 30 000	10 918	10 100	7 000
Zinc, mine	tonnes (metal content)	—	—	—	—	1 200
Slab Zinc	tonnes	501 400	507 300	509 000	466 000	515 000

Note(s)

(1) Spain is believed to produce arsenic

(a) Sales

(b) Including Tripoli

(c) Washed

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

(e) From metal sulphide processing

(f) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 546 315	2 489 305	2 042 075	1 478 362	1 060 445
Aluminium and bauxite						
Bauxite	tonnes	3 821	3 647	6 057	5 623	4 951
Alumina	tonnes	561 125	511 992	539 739	671 009	612 933
Alumina hydrate	tonnes	264 829	258 854	199 679	236 855	163 303
Unwrought	tonnes	3 002	8 245	15 999	39 359	19 816
Unwrought alloys	tonnes	111 992	128 262	125 008	123 577	230 539
Scrap	tonnes	36 688	41 923	34 520	109 493	46 307
Antimony						
Metal	tonnes	13	21	17	143	62
Oxide	tonnes	859	2 031	246	1 023	894
Barytes	tonnes	27 389	27 743	31 693	33 676	29 776
Bentonite and fuller's earth						
Bentonite	tonnes	75 450	73 767	72 278	75 287	1 021 034
Sepiolite	tonnes	507 103	465 599	474 788	460 485	418 644
Fuller's earth	tonnes	9 828	7 896	...	...	...
Bismuth						
Metal	tonnes	9	118	32	19	14
Bromine	kilograms	1 000	192 339	418 531	2 000	2 578
Cement						
Cement clinkers	tonnes	13 259	28 809	37 343	907 694	1 181 783
Portland cement	tonnes	1 713 572	1 386 652	1 358 857	1 474 428	1 411 588
Other cement	tonnes	51 340	43 262	46 348	63 825	74 007
Chromium						
Ores and concentrates	tonnes	1 314	1 908	1 529	1 073	1 022
Metal	tonnes	709	990	779	1 165	516
Coal						
Anthracite	tonnes	49 563	74 826	101 968	186 293	123 114
Other coal	tonnes	8 208	135 401	872 269	1 636 071	1 252 923
Briquettes	tonnes	1	53	...	21 735	193
Cobalt						
Oxides	tonnes	59	30	56	7	33
Copper						
Ores and concentrates	tonnes	14 434	5 835	905	463	110 724
Unwrought, unrefined	tonnes	62 269	45 906	37 210	41 676	38 761
Unwrought, refined	tonnes	44 365	38 205	48 288	85 899	108 716
Unwrought alloys	tonnes	9 810	10 590	12 679	12 139	12 150
Scrap	tonnes	99 600	84 570	88 429	83 820	100 498
Diamond						
Unsorted	carats	£673 000	£531 000	£346 000	£503 000	£266 000
Gem, cut	carats	£5 275 000	£61 119 000	£8 478 000	£6 631 000	£5 328 000
Industrial	carats	£325 000	£331 000	£208 000	£498 000	£171 000
Dust	carats	1 607 384	210 000	254 600	630 000	180 000
Diatomite	tonnes	6 694	6 118	6 399	5 306	4 678
Feldspar	tonnes	66 427	77 348	74 461	79 120	56 161
Fluorspar	tonnes	4 434	10 518	29 117	13 109	35 366

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Gold						
Metal	kilograms	3 520	3 679	23 667	6 966	31 466
Waste and scrap	kilograms	38	2 636	92	1 147	131 376
Graphite	tonnes	11 972	6 356	8 728	10 499	8 160
Gypsum						
Crude	tonnes	3 228 806	3 568 327	3 335 273	3 458 773	2 187 816
Calcined	tonnes	391 274	306 791	274 781	228 060	182 982
Iodine	kilograms	21 089	7 356	7 689	46 873	15 376
Iron ore (a)	tonnes	231 059	120 787	75 567	62 147	17 348
Iron, steel and ferro-alloys						
Pig iron	tonnes	12 709	4 202	12 491	9 747	4 772
Sponge and powder	tonnes	4 397	4 030	6 404	4 763	2 566
Ferro-chrome	tonnes	775	1 024	2 461	4 768	367
Ferro-manganese	tonnes	101 850	91 018	71 345	65 330	29 403
Ferro-silico-manganese	tonnes	42 916	32 806	33 636	34 307	25 859
Ferro-molybdenum	tonnes	331	317	70	45	242
Ferro-silicon	tonnes	11 843	7 759	18 323	9 562	5 939
Other ferro-alloys	tonnes	992	493	1 170	1 285	1 178
Silicon metal	tonnes	16 742	16 566	16 175	16 008	5 571
Ingots, blooms, billets	tonnes	118 414	114 897	91 085	310 671	261 758
Scrap	tonnes	140 200	137 273	162 371	214 913	302 465
Kaolin	tonnes	192 735	213 955	199 541	155 563	156 915
Lead						
Ores and concentrates	tonnes	2	29	130	1 015	14 147
Unwrought	tonnes	9 805	7 830	9 242	14 771	13 434
Scrap	tonnes	9 128	6 460	7 023	6 616	3 862
Lithium						
Carbonate	tonnes	1 123	554	192	128	228
Magnesite and magnesia						
Magnesite	tonnes	901	19 635	607	725	2 167
Magnesia	tonnes	189 005	179 046	185 364	175 307	156 027
Manganese						
Ores and concentrates	tonnes	776	1 336	1 299	518	21 456
Metal	tonnes	6 651	5 827	5 783	4 562	3 386
Mercury	kilograms	581 653	463 954	779 110	639 203	376 885
Mica						
Unmanufactured	tonnes	2 771	3 994	2 473	1 259	563
Ground	tonnes	312	462	1 089	1 368	1 521
Nickel						
Ores and concentrates	tonnes	85 203	95 377	65 853	127 812	102 105
Unwrought (b)	tonnes	572	795	767	600	573
Scrap	tonnes	528	910	227	226	875
Crude petroleum (c)	tonnes	* 28 000	* 53 000	* 2 000	* 24 000	* 400
Natural gas	tonnes	778 037	1 546	31 159	—	61 433
Phosphate rock	tonnes	42	7 259	7 840	4 754	1 565
Platinum metals						
Platinum and platinum metals	kilograms	152	363	434	3 104	1 672
Waste and scrap	kilograms	2 892	290	44	88 069	225 411
Potash						
Sulphate	tonnes	2 832	1 245	1 795	1 251	2 540
Chloride	tonnes	514 042	201 242	163 891	360 538	319 549
Other potassic fertilisers	tonnes	483	257	998	1 895	1 352
Rare earths						
Cerium compounds	tonnes	17	45	63	8	13
Other rare earth compounds	tonnes	20	18	2	17	5
Ferro-cerium and other pyrophoric alloys	tonnes	3	1	...	...	...
Salt	tonnes	750 180	743 390	463 791	646 288	862 994
Silver						
Ores and concentrates	kilograms	...	...	1 608	—	30
Metal	kilograms	11 665	7 915	13 637	379 675	233 084
Sulphur and pyrites						
Sulphur	tonnes	45 690	76 771	77 220	116 213	198 585
Talc	tonnes	56 493	47 142	39 689	51 180	29 580
Tin						
Unwrought (b)	tonnes	139	120	98	433	427
Scrap	tonnes	435	408	460	447	2 038

Spain

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Titanium						
Titanium minerals	tonnes	170	185	232	155	25 892
Metal	tonnes	903	2 005	1 431	947	1 018
Oxides	tonnes	83 905	85 307	91 583	58 342	33 721
Tungsten						
Ores and concentrates	tonnes	—	—	0	286	457
Metal	tonnes	77	59	177	223	156
Zinc						
Ores and concentrates	tonnes	67 420	31 416	98 359	121 688	40 118
Unwrought	tonnes	333 966	270 233	220 002	191 897	216 633
Unwrought alloys	tonnes	32 673	87 073	66 155	92 781	62 544
Scrap	tonnes	11 981	7 946	5 295	6 210	8 865
Zirconium						
Concentrates	tonnes	9 805	9 811	11 803	14 151	13 581
Metal	tonnes	820	110	200	525	746

Note(s)

(a) Including burnt pyrites

(b) Including alloys

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

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 305 835	762 652	1 396 928	1 035 555	889 156
Aluminium and bauxite						
Bauxite	tonnes	3 224 101	3 007 043	3 547 201	3 618 306	3 509 294
Alumina	tonnes	58 627	56 961	53 579	50 417	22 239
Alumina hydrate	tonnes	43 246	49 725	49 451	41 614	30 522
Unwrought	tonnes	110 257	95 436	122 303	82 512	95 461
Unwrought alloys	tonnes	223 627	303 607	328 314	281 270	162 026
Scrap	tonnes	99 459	103 839	123 074	110 745	63 517
Antimony						
Ores and concentrates	tonnes	108	175	164	154	55
Metal	tonnes	1 881	1 596	1 676	1 987	1 478
Oxide	tonnes	808	984	1 146	899	493
Arsenic						
Metallic arsenic	tonnes	112	143	116	192	48
Asbestos						
Unmanufactured	tonnes	23	20	50	21	—
Barytes	tonnes	47 923	50 743	65 569	71 025	30 503
Bentonite and fuller's earth						
Bentonite	tonnes	83 784	82 645	104 057	103 602	72 993
Fuller's earth	tonnes	238	159	...	...	...
Bismuth						
Metal	tonnes	179	297	190	212	52
Bromine						
	kilograms	53 000	82 351	77 578	169 159	75 099
Cadmium						
Metal	tonnes	2	19	0	21	118
Oxide	tonnes	53	17	22	25	3
Cement						
Cement clinkers	tonnes	7 852 531	9 108 499	10 894 888	5 496 563	2 079 944
Portland cement	tonnes	2 845 856	2 771 668	2 929 208	1 729 088	694 757
Other cement	tonnes	20 031	40 164	74 401	58 007	73 362
Chromium						
Ores and concentrates	tonnes	10 262	5 906	6 437	6 721	4 031
Metal	tonnes	1 206	1 552	1 393	1 219	1 192
Coal						
Anthracite	tonnes	2 534 019	2 508 261	1 019 341	957 293	767 027
Other coal	tonnes	22 222 316	21 196 872	23 420 766	20 010 533	15 967 793
Cobalt						
Metal	tonnes	158	180	121	131	135
Oxides	tonnes	1 352	1 254	1 187	1 038	3 294

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Copper						
Ores and concentrates	tonnes	1 040 099	1 100 338	1 001 284	1 122 093	1 184 321
Unwrought, unrefined	tonnes	312	2 631	1 032	3 733	3 133
Unwrought, refined	tonnes	69 039	62 982	56 237	79 125	80 898
Unwrought alloys	tonnes	4 458	5 898	5 417	4 352	3 473
Scrap	tonnes	84 824	89 252	56 754	65 765	68 166
Diamond						
Unsorted	carats	£6 908 000	£4 616 000	£3 667 000	£1 959 000	£1 591 000
Gem, cut	carats	£37 408 000	£47 084 000	£57 921 000	£40 012 000	£30 290 000
Industrial	carats	£1 421 000	£2 701 000	£1 396 000	£1 485 000	£917 000
Dust	carats	8 490 229	7 000 000	67 062 395	42 938 192	30 861 760
Diatomite	tonnes	5 186	7 281	9 447	8 861	9 600
Feldspar	tonnes	1 231 861	1 422 514	1 407 350	1 410 760	664 830
Fluorspar	tonnes	10 859	28 908	29 560	32 016	17 148
Gold						
Metal	kilograms	20 594	15 072	6 641	* 72 000	68 562
Waste and scrap	kilograms	139	233	2 352	252	109
Graphite	tonnes	8 334	10 143	15 582	24 284	15 669
Gypsum						
Crude	tonnes	47 585	59 656	53 028	43 171	25 963
Calcined	tonnes	32 078	20 440	14 129	33 825	7 349
Iodine	kilograms	781 787	790 641	582 029	541 706	512 821
Iron ore (a)	tonnes	6 248 771	5 836 809	6 117 047	6 479 890	4 237 845
Iron, steel and ferro-alloys						
Pig iron	tonnes	806 327	793 050	652 786	688 421	380 731
Sponge and powder	tonnes	516 423	641 804	611 893	621 627	295 665
Ferro-chrome	tonnes	200 543	253 172	1 123 216	203 518	113 275
Ferro-silico-magnesium	tonnes	5 256	2 891	7 289	9 890	5 818
Ferro-manganese	tonnes	16 489	14 406	24 599	17 126	13 357
Ferro-silico-manganese	tonnes	66 531	42 326	48 205	74 962	50 683
Ferro-molybdenum	tonnes	6 327	10 473	5 863	3 777	3 756
Ferro-nickel	tonnes	59 113	92 147	75 625	68 355	43 936
Ferro-niobium	tonnes	906	515	8 283	685	553
Ferro-phosphorus	tonnes	2 036	1 771	2 554	1 488	193
Ferro-silicon	tonnes	39 623	52 215	71 487	46 445	27 140
Ferro-titanium and ferro-silico-titanium	tonnes	1 880	796	1 276	1 006	611
Ferro-vanadium	tonnes	824	515	1 189	1 122	809
Other ferro-alloys	tonnes	6 546	4 586	82	4 378	360
Silicon metal	tonnes	4 160	2 837	3 640	8 856	9 523
Ingots, blooms, billets	tonnes	1 219 342	1 601 769	1 733 247	1 587 605	1 007 820
Scrap	tonnes	6 975 101	7 437 224	6 316 516	7 408 237	4 674 099
Kaolin	tonnes	1 366 226	1 506 142	1 571 143	1 470 440	757 859
Lead						
Ores and concentrates	tonnes	1 526	2 299	8 188	7 107	3 199
Unwrought	tonnes	174 618	147 423	157 485	116 492	121 522
Scrap	tonnes	30 499	30 625	42 629	35 506	35 703
Lithium						
Oxides	tonnes	480	573	600	501	521
Carbonate	tonnes	1 553	828	1 811	3 908	2 825
Magnesite and magnesia						
Magnesite	tonnes	2 348	3 937	4 092	2 839	10 029
Magnesia	tonnes	103 747	88 898	117 867	143 849	42 980
Manganese						
Ores and concentrates	tonnes	415 959	393 476	349 131	640 677	54 606
Metal	tonnes	10 537	9 165	9 563	10 033	3 994
Mercury	kilograms	572 872	628 737	906 297	337 117	467 614
Mica	tonnes	1 917	1 484	1 871	952	1 467
Molybdenum						
Ores and concentrates	tonnes	3 317	4 584	4 622	3 787	1 724
Metal	tonnes	31	163	113	189	236
Nickel						
Unwrought	tonnes	27 452	28 171	21 202	22 668	12 290
Unwrought alloys	tonnes	1 188	1 174	1 426	1 547	821
Oxides	tonnes	176	127	94	151	50
Crude petroleum	tonnes	59 510 408	59 203 359	57 773 847	59 444 410	52 331 324
Natural gas	tonnes	24 439 892	26 548 202	27 048 984	32 044 466	28 024 572

Spain

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Phosphate rock	tonnes	1 768 425	1 556 734	1 653 874	1 611 494	438 755
Platinum metals						
Platinum and platinum metals (b)	kilograms	* 6 000	* 5 600	* 4 500	* 3 900	* 3 000
Waste and scrap	kilograms	122	526	4 111	8 947	29 448
Potash						
Sulphate	tonnes	47 561	10 412	5 547	40 911	21 022
Chloride	tonnes	243 017	224 320	199 403	194 656	71 444
Other potassic fertilisers	tonnes	4 667	86	25	3 548	3 721
Rare earths						
Metals	tonnes	20	84	95	274	108
Cerium compounds	tonnes	476	572	580	444	443
Other rare earth compounds	tonnes	353	260	255	270	140
Ferro-cerium and other pyrophoric alloys	tonnes	8	29	40	15	19
Salt	tonnes	111 449	37 632	33 691	97 348	81 729
Sillimanite minerals	tonnes	27 308	22 102	27 792	34 909	21 648
Silver						
Ores and concentrates	kilograms	59 653	56 421	58 344	75 633	66 088
Metal	kilograms	106 596	134 673	126 668	1 547 747	754 262
Sulphur and pyrites						
Pyrites	tonnes	1 542	1 478	2 585	1 903	958
Sulphur	tonnes	188 096	133 552	152 566	153 575	24 015
Sulphur, sublimed and precipitated	tonnes	243	296	265	372	187
Talc	tonnes	80 726	87 578	96 298	85 942	81 043
Tantalum and niobium						
Tantalum	tonnes	62	10	112	—	3
Tin						
Unwrought	tonnes	7 109	7 716	7 093	7 313	5 457
Unwrought alloys	tonnes	170	220	167	261	243
Scrap	tonnes	1 919	1 576	185	376	441
Titanium						
Ilmenite	tonnes	121 204	159 090	121 898	119 467	26 512
Other titanium minerals	tonnes	1 746	1 807	22 037	9 133	522
Titanium slag	tonnes	57	8	2 164	10 004	...
Metal	tonnes	3 862	5 782	3 450	3 131	1 735
Oxides	tonnes	117 203	112 778	123 132	138 275	93 267
Tungsten						
Metal	tonnes	134	556	914	731	681
Vanadium						
Ores and concentrates	tonnes	9	20	50	80	22
Pentoxide	tonnes	62	71	45	43	50
Zinc						
Ores and concentrates	tonnes	1 090 022	1 188 067	1 257 304	1 114 634	909 078
Unwrought	tonnes	8 203	7 577	21 634	26 779	16 091
Unwrought alloys	tonnes	17 858	18 933	17 411	15 000	9 230
Scrap	tonnes	3 927	4 996	6 601	7 396	3 127
Zirconium						
Concentrates	tonnes	153 619	149 710	138 442	152 604	95 103
Metal	tonnes	56	55	65	136	83

Note(s)

(a) Including burnt pyrites

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

Sweden

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	21 755 752	21 488 963	20 036 785	18 804 343	14 400 000
Crushed rock	tonnes	62 313 089	70 517 845	64 047 058	66 757 671	57 500 000
Primary aluminium	tonnes	102 107	101 668	99 842	81 913	69 708
Cement						
Cement clinker	tonnes	2 457 245	2 660 045	1 712 626	1 881 054	* 1 900 000
Cement, finished	tonnes	2 731 000	2 952 000	2 950 000	* 2 950 000	* 2 900 000
Copper, mine	tonnes (metal content)	87 068	86 746	62 905	57 688	55 414
Copper, smelter	tonnes	168 763	129 951	148 835	136 409	125 398
Copper, refined	tonnes	223 482	229 241	213 894	227 774	205 759
Feldspar	tonnes	30 000	24 000	25 000	22 000	18 000
Gold, mine	kilograms (metal content)	6 564	6 848	5 159	4 953	5 542
Iron ore	tonnes	23 255 000	23 302 000	24 714 000	23 888 000	17 677 000
Pig iron	tonnes	3 844 000	3 701 000	3 947 000	3 708 000	1 966 000
Crude steel	tonnes	5 725 600	5 466 100	5 672 900	5 197 600	2 803 700
Ferro-alloys						
Ferro-chrome	tonnes	127 500	136 400	124 400	118 700	* 50 000
Ferro-silicon	tonnes	9 800	4 600	4 300	—	—
Lead, mine	tonnes (metal content)	60 445	55 644	63 224	63 489	69 293
Lead, refined	tonnes	72 760	70 239	69 730	56 812	51 574
Selenium metal	tonnes	122	135	126	139	* 140
Silver, mine	kilograms (metal content)	309 933	292 255	323 171	293 068	288 590
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	180 000	180 000	177 000	199 600	186 100
Recovered (b)	tonnes (sulphur content)	59 839	68 391	66 569	84 456	83 646
Talc	tonnes	7 000	6 000	7 000	4 000	4 000
Zinc, mine	tonnes (metal content)	215 691	210 029	214 576	187 987	192 502

Note(s)

(a) From metal sulphide processing

(b) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	2 447 200	2 333 174	2 307 614	3 049 601	1 867 320
Aluminium and bauxite						
Alumina	tonnes	14 133	14 481	14 278	13 919	14 464
Unwrought	tonnes	9 390	910	735	6 307	2 143
Unwrought alloys	tonnes	88 311	112 575	89 591	89 190	145 554
Scrap	tonnes	69 166	67 879	107 946	106 581	89 940
Antimony						
Metal	tonnes	5	2	1	15	489
Bentonite and fuller's earth						
Bentonite	tonnes	7 419	9 539	12 240	11 640	5 588
Cadmium						
Oxide	tonnes	140	...	322	448	305
Cement						
Portland cement	tonnes	1 295 834	1 208 231	845 235	723 793	482 223
Other cement	tonnes	2 555	12 144	15 237	14 082	7 166
Chromium						
Metal	tonnes	55	105	102	225	100
Cobalt						
Metal	tonnes	127	110	152	67	285
Copper						
Unwrought, refined	tonnes	99 824	86 726	65 926	70 047	77 739
Unwrought alloys	tonnes	5 247	6 443	8 837	5 610	3 181
Scrap	tonnes	43 816	45 456	54 673	57 245	55 603
Diatomite	tonnes	4 423	568	3 497	749	693
Feldspar	tonnes	16 515	15 880	14 383	10 670	7 646

Sweden

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Fluorspar	tonnes	8 206	7 450	7 764	11 538	6 745
Gold						
Metal	kilograms	18 000	19 000	17 800	19 400	14 500
Waste and scrap	kilograms	1 000	32 000	65 700	29 400	60 900
Graphite	tonnes	195	230	273	252	159
Gypsum						
Crude and calcined	tonnes	7 832	9 954	12 694	11 525	9 358
Iodine	kilograms	4 000	40	48	122	300
Iron ore	tonnes	17 597 351	18 409 475	19 033 842	17 617 162	16 104 129
Iron, steel and ferro-alloys						
Pig iron	tonnes	99 496	145 733	152 911	62 588	141 261
Sponge and powder	tonnes	9 064	15 238	26 666	19 844	6 558
Ferro-chrome	tonnes	1 801	1 973	2 247	3 534	3 368
Ferro-silico-magnesium	tonnes	60	739	1 260	...	50
Ferro-manganese and ferro-silico-manganese	tonnes	3 456	2 584	3 859	3 620	2 423
Ferro-molybdenum	tonnes	158	157	304	301	193
Ferro-phosphorus	tonnes	294	706	1 128	1 370	364
Ferro-silicon	tonnes	731	1 968	2 892	2 616	3 004
Ferro-vanadium	tonnes	249	61	135	112	250
Other ferro-alloys	tonnes	1 171	1 289	216	895	280
Silicon metal	tonnes	6 049	2 321	1 474	2 458	968
Ingots, blooms, billets	tonnes	232 958	116 880	134 568	102 086	58 631
Scrap	tonnes	863 474	847 179	1 069 335	1 449 311	1 439 126
Kaolin	tonnes	18 473	15 735	18 229	30 495	31 122
Lead						
Ores and concentrates	tonnes	62 155	50 854	56 581	61 439	72 220
Unwrought	tonnes	70 042	76 777	65 733	53 715	46 795
Scrap	tonnes	307	703	734	816	1 044
Magnesite and magnesia						
Magnesia	tonnes	1 421	2 277	1 593	235	380
Nickel						
Unwrought (a)	tonnes	112	516	390	288	522
Oxides	tonnes	291	349	457	511	363
Scrap	tonnes	4 369	5 743	5 344	1 513	1 376
Phosphate rock	tonnes	392	969	1 623	4 897	1 228
Platinum metals						
Platinum and platinum metals	kilograms	£663 000	£1 514 000	£900 000	£851 000	£177 000
Waste and scrap	kilograms	25 000	280 000	242 500	575 300	40 400
Potash						
Sulphate	tonnes	54 841	10 191	84 414	53 883	59 252
Salt	tonnes	8 783	9 357	12 601	10 444	10 025
Silver						
Ores and concentrates	kilograms	...	...	59 400	...	—
Metal	kilograms	421 000	368 000	364 500	521 200	476 300
Sulphur and pyrites						
Sulphur	tonnes	16 883	12 071	5 168	5 525	3 018
Sulphur, sublimed and precipitated	tonnes	239	5 719	10 959	13 128	12 242
Talc	tonnes	10 080	7 556	9 415	9 227	8 032
Tin						
Unwrought (a)	tonnes	217	250	201	213	122
Scrap	tonnes	45	43	161	96	63
Titanium						
Metal	tonnes	1 955	1 461	2 667	1 002	717
Oxides	tonnes	14 306	20 409	17 047	19 992	15 921
Tungsten						
Ores and concentrates	tonnes	62	—	3 192	75	96
Metal	tonnes	414	296	234	328	431
Carbide	tonnes	37	491	446	436	253
Zinc						
Ores and concentrates	tonnes	372 925	402 219	405 682	389 473	395 616
Unwrought (a)	tonnes	165	1 143	103	538	302
Scrap	tonnes	16 134	29 015	2 777	2 898	1 840

Note(s)

(a) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	810 385	1 135 048	1 068 840	864 988	355 022
Aluminium and bauxite						
Bauxite	tonnes	3 171	2 846	30 099	18 761	10 755
Alumina	tonnes	191 504	201 496	43 101	161 638	109 806
Alumina hydrate	tonnes	62 549	56 535	94 218	95 834	81 026
Unwrought	tonnes	17 916	7 959	46 431	47 534	39 248
Unwrought alloys	tonnes	117 202	135 270	159 628	144 343	124 277
Scrap	tonnes	24 309	32 198	36 838	40 125	30 093
Antimony						
Metal	tonnes	199	337	546	166	58
Oxide	tonnes	377	296	319	293	203
Arsenic						
Metallic arsenic	tonnes	6	...	12	6	6
Barytes	tonnes	4 610	4 876	6 504	6 371	3 346
Bentonite and fuller's earth						
Bentonite	tonnes	48 564	125 491	184 313	178 308	120 079
Bismuth						
Metal	tonnes	11	8	5	12	6
Bromine	kilograms	13 000	9 000	2 800	31 700	3 100
Cadmium						
Metal	tonnes	282	388	491	851	588
Oxide	tonnes	35	...	25	83	42
Cement						
Cement clinkers	tonnes	14 601	13 238	29 344	37 009	10 434
Portland cement	tonnes	242 326	249 670	55 784	61 891	29 482
Other cement	tonnes	34 597	41 176	52 359	50 333	37 308
Chromium						
Ores and concentrates	tonnes	240 000	315 000	350 000	337 933	—
Metal	tonnes	1 150	1 639	2 145	12 782	4 396
Coal						
Anthracite	tonnes	13 013	28 506	25 832	36 163	20 373
Other coal	tonnes	3 187 798	3 003 919	3 154 331	2 811 668	1 831 397
Briquettes	tonnes	8 443	27 164	287	9 029	33
Cobalt						
Metal	tonnes	660	743	676	698	189
Copper						
Ores and concentrates	tonnes	311 085	267 753	420 050	393 295	362 803
Unwrought, unrefined	tonnes	15 452	35 496	10 495	23 539	22 072
Unwrought, refined	tonnes	40 106	41 036	31 535	21 123	23 107
Unwrought alloys	tonnes	2 926	3 944	5 867	5 239	2 040
Scrap	tonnes	50 940	54 483	81 015	91 839	96 542
Diamond						
Unsorted	carats	£220 000	£143 000	£141 000	£100 000	£23 000
Gem, cut	carats	7 132	8 573	9 465	10 938	8 709
Industrial	carats	198 724	188 546	224 486	217 127	6 907
Dust	carats	5 000 000	10 000 000	11 500 000	4 000 000	1 500 000
Diatomite	tonnes	5 096	6 095	6 976	6 929	6 082
Feldspar	tonnes	9 387	4 029	6 021	3 861	4 268
Fluorspar	tonnes	15 790	16 176	12 089	14 214	12 959
Gold						
Metal	kilograms	£8 625 000	£10 124 000	£18 292 000	£25 583 000	£26 296 000
Waste and scrap	kilograms	£180 000	£7 000	£112 000	£565 000	£53 000
Graphite	tonnes	1 539	1 252	1 592	1 091	835
Gypsum						
Crude	tonnes	206 972	263 582	244 986	178 364	94 656
Calcined	tonnes	97 746	166 829	146 638	154 201	158 842
Iodine	kilograms	2 000	2 000	5 000	600	400
Iron ore	tonnes	104 570	82 211	(a) 69 937	(a) 71 441	(a) 44 006

Sweden

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	38 223	43 492	59 661	80 450	40 076
Sponge and powder	tonnes	2 091	7 346	16 799	11 861	2 691
Ferro-chrome	tonnes	86 040	86 160	125 057	114 712	78 244
Ferro-silico-chrome	tonnes	2 030	1 370	3 104	3 873	1 215
Ferro-manganese	tonnes	43 005	49 295	75 409	68 246	27 869
Ferro-silico-manganese	tonnes	18 995	20 566	17 085	10 677	5 754
Ferro-molybdenum	tonnes	5 364	4 976	4 377	5 693	2 652
Ferro-nickel	tonnes	7 431	8 076	9 162	6 803	3 286
Ferro-niobium	tonnes	1 156	1 504	1 242	1 264	604
Ferro-phosphorus	tonnes	314	433	1 331	386	430
Ferro-silicon	tonnes	48 950	37 095	42 315	34 249	25 880
Ferro-titanium and ferro-silico-titanium	tonnes	3 212	1 681	691	1 370	653
Ferro-tungsten and ferro-silico-tungsten	tonnes	195	119	105	153	30
Ferro-vanadium	tonnes	1 316	1 202	1 005	956	547
Other ferro-alloys	tonnes	5 574	5 860	5 986	8 916	2 154
Silicon metal	tonnes	10 832	7 531	6 756	7 631	4 404
Ingots, blooms, billets	tonnes	294 616	108 821	137 032	264 782	119 549
Scrap	tonnes	254 358	279 956	242 167	193 207	174 279
Kaolin	tonnes	480 358	451 919	448 129	468 491	408 564
Lead						
Ores and concentrates	tonnes	5 085	10 476	—	275	—
Unwrought	tonnes	6 098	17 679	6 554	6 922	5 028
Scrap	tonnes	3 538	3 101	3 771	2 089	5 176
Lithium						
Oxides	tonnes	176	186	107	146	149
Carbonate	tonnes	259	215	236	278	191
Magnesite and magnesia						
Magnesite	tonnes	41	39	477	38	2
Magnesia	tonnes	21 293	24 610	17 556	14 701	15 832
Manganese						
Ores and concentrates	tonnes	119	72	130	388	854
Metal	tonnes	2 632	2 380	3 012	3 287	1 880
Mercury	kilograms	3 000	6 000	10 600	13 800	21 300
Mica	tonnes	592	515	584	755	721
Molybdenum						
Ores and concentrates	tonnes	5 690	6 863	7 003	4 645	2 514
Metal	tonnes	280	139	281	442	470
Oxides	tonnes	392	1 133	780	711	219
Nickel						
Mattes, sinters etc	tonnes	4 346	4 215	4 252	1 490	1 607
Unwrought	tonnes	26 931	28 101	25 303	25 474	16 544
Unwrought alloys	tonnes	1 324	1 414	356	1 317	661
Scrap	tonnes	8 946	9 158	9 118	12 215	8 709
Crude petroleum	tonnes	19 770 639	19 170 472	17 719 046	19 184 387	16 818 080
Natural gas	tonnes	618 697	372 627	749 162	647 510	860 497
Phosphate rock	tonnes	1 626	4 283	2 369	922	2 918
Platinum metals						
Platinum and platinum metals	kilograms	£6 513 000	£4 509 000	£6 109 000	£8 722 000	£5 934 000
Waste and scrap	kilograms	577 000	618 000	731 700	13 800	80 200
Potash						
Sulphate	tonnes	4 911	10 191	1 004	2 872	965
Chloride	tonnes	43 106	44 941	27 470	15 689	4 769
Other potassic fertilisers	tonnes	1 119	4 109	4 886	4 735	4 211
Rare earths						
Metals	tonnes	41	37	74	46	28
Rare earth compounds	tonnes	26	20	56	68	54
Salt	tonnes	738 931	1 054 982	744 328	875 294	910 606
Sillimanite minerals	tonnes	5 086	5 568	6 381	5 212	2 395
Silver						
Ores and concentrates	kilograms	...	...	21 000	...	2 330 100
Metal	kilograms	151 000	137 000	162 900	122 200	85 300
Sulphur and pyrites						
Pyrites	tonnes	319	557	750	691	544
Sulphur	tonnes	71 337	82 246	94 449	78 784	21 772
Sulphur, sublimed and precipitated	tonnes	16	23	4	112	143
Talc	tonnes	45 376	44 669	48 746	45 801	28 459

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Tin						
Unwrought (b)	tonnes	761	838	720	555	364
Titanium						
Titanium minerals	tonnes	300	911	1 032	995	726
Metal	tonnes	1 382	2 294	2 623	2 391	1 593
Oxides	tonnes	50 099	62 841	65 872	61 890	53 071
Tungsten						
Metal	tonnes	502	563	546	588	175
Carbide	tonnes	925	738	876	904	233
Vanadium						
Pentoxide	tonnes	3	1	1	76	25
Metal	tonnes	20	40	...	...	...
Zinc						
Unwrought	tonnes	29 847	25 763	21 570	29 211	29 750
Unwrought alloys	tonnes	16 812	20 325	22 600	12 059	2 691
Zirconium						
Concentrates	tonnes	588	750	825	832	248
Metal	tonnes	91	134	219	185	218

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Switzerland

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	46 500 000	50 000 000	* 50 000 000	* 37 000 000	...
Crushed rock	tonnes	5 300 000	5 700 000	* 5 700 000	* 5 000 000	...
Primary aluminium	tonnes	44 800	12 000	—	—	—
Cement						
Cement, finished (a)	tonnes	4 267 854	4 231 294	4 252 574	4 238 311	4 333 096
Gypsum	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Crude steel	tonnes	1 158 000	1 252 000	1 264 000	1 312 000	934 000
Lead, refined	tonnes	9 600	* 9 000	* 9 000	* 8 000	800
Salt	tonnes	539 000	525 000	353 000	368 000	554 000

Note(s)

(a) Includes production in Liechtenstein

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	283 508	273 603	486 288	202 846	194 006
Aluminium and bauxite						
Unwrought (a)	tonnes	14 499	21 257	22 645	9 938	14 444
Alumina	tonnes	262	1 242	281	5 767	1 240
Scrap	tonnes	122 729	140 657	139 599	125 769	116 520
Asbestos						
Unmanufactured	tonnes	0	0	290	120	30
Cement						
Cement clinkers	tonnes	121 014	103 367	114 075	91 167	70 207
Portland cement	tonnes	46 939	23 437	13 704	35 925	15 044
Other cement	tonnes	2 692	988	4 014	9 009	4 062
Chromium						
Metal	tonnes	249	530	74	54	44
Cobalt						
Metal	tonnes	140	105	94	120	70
Copper						
Unwrought	tonnes	1 069	1 036	1 002	1 159	623
Scrap	tonnes	74 878	74 079	75 542	82 687	71 204
Diamond						
Unsorted	carats	...	...	...	...	...
Gem, rough	carats	195 614	119 619	4 360	5 000	1 230
Gem, cut	carats	500 591	543 079	559 591	360 000	75 000
Industrial	carats	13 934	76 604	12 100	15 000	7 139
Dust	carats	126 190 000	128 180 000	40 985 000	44 105 000	30 400 000
Gold						
Metal	kilograms	1 340 948	965 959	1 095 682	2 103 919	2 201 838
Waste and scrap	kilograms	2 823	2 802	102 745	125 459	107 918
Graphite	tonnes	326	225	384	600	355
Gypsum						
Crude and calcined	tonnes	1 095	1 158	2 754	5 207	2 454
Iodine	kilograms	4 179	1 342	1 205	1 605	97
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	2 222	2 233	2 537	2 126	1 564
Ferro-alloys	tonnes	867	616	653	642	943
Ingots, blooms, billets	tonnes	83 219	88 289	104 433	65 257	48 349
Scrap	tonnes	561 972	582 567	585 342	636 462	565 415
Kaolin	tonnes	246	433	786	128	203
Lead						
Unwrought	tonnes	4 657	7 966	7 383	7 387	1 765
Scrap	tonnes	2 932	3 124	4 860	3 236	4 748
Lithium						
Oxides	tonnes	78	69	75	88	2 041
Mercury	kilograms	171 790	87 136	140 336	11 592	25 372

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Natural gas	tonnes	3 244	1	4	2	4
Nickel						
Scrap	tonnes	1 403	1 669	1 750	1 603	1 519
Unwrought (a)	tonnes	73	154	113	94	53
Platinum metals						
Platinum	kilograms	42 102	62 243	57 569	69 404	61 433
Palladium	kilograms	75 105	46 578	52 880	86 503	57 571
Other Platinum metals	kilograms	2 047	292	636	717	192
Waste and scrap	kilograms	235 630	200 470	393 326	616 867	362 419
Rare earths						
Cerium compounds	tonnes	1	2	2	1	1
Other rare earth compounds	tonnes	3	7	3	1	26
Salt	tonnes	30 461	62 318	55 916	37 772	68 947
Silver						
Metal	kilograms	1 044 080	930 397	1 201 402	1 444 198	2 059 830
Tantalum and niobium						
Tantalum	tonnes	27	17	14	7	1
Tin						
Unwrought (a)	tonnes	29	160	112	114	87
Scrap	tonnes	157	130	123	76	136
Titanium						
Metal	tonnes	560	692	868	987	734
Oxides	tonnes	1 020	1 024	1 133	1 276	1 203
Tungsten						
Metal	tonnes	316	270	392	400	239
Zinc						
Unwrought (a)	tonnes	897	1 001	679	1 078	524
Scrap	tonnes	2 480	2 856	2 408	2 445	2 574

Note(s)

(a) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	6 261 007	6 700 038	7 371 907	7 256 472	7 246 506
Aluminium and bauxite						
Bauxite	tonnes	9 929	5 901	5 850	12 439	8 360
Alumina	tonnes	88 358	21 431	10 745	11 036	9 074
Alumina hydrate	tonnes	16 823	18 333	17 875	17 235	15 269
Unwrought	tonnes	75 987	111 780	136 214	127 018	108 096
Unwrought alloys	tonnes	56 059	79 666	78 916	62 962	50 341
Scrap	tonnes	27 617	26 711	32 716	31 728	23 195
Antimony						
Ores and concentrates	tonnes	1 722	201	38	—	25
Oxide	tonnes	1 026	1 141	1 461	1 328	793
Barytes	tonnes	2 242	2 433	2 843	3 644	2 605
Bentonite and fuller's earth						
Bentonite	tonnes	20 861	24 407	21 334	21 876	20 407
Fuller's earth	tonnes	1 844	916	...	...	...
Bismuth						
Metal	tonnes	15	6	8	12	12
Cement						
Cement clinkers	tonnes	71 542	115 001	15 292	8 596	27 649
Portland cement	tonnes	352 409	380 862	348 262	361 305	364 034
Other cement	tonnes	48 309	49 317	37 522	30 908	36 464
Chromium						
Ores and concentrates	tonnes	624	1 080	1 339	1 510	974
Metal	tonnes	127	162	114	134	38

Switzerland

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Coal						
Anthracite	tonnes	6 640	7 978	9 539	18 721	5 444
Other coal	tonnes	93 584	143 425	214 684	132 824	172 990
Lignite	tonnes	34 897	86 762	84 654	80 814	66 483
Briquettes	tonnes	5 137	4 584	3 908	3 986	4 933
Cobalt						
Metal	tonnes	423	408	454	386	243
Copper						
Unwrought	tonnes	4 734	4 843	5 960	5 903	3 473
Unwrought alloys	tonnes	3 897	4 695	4 089	3 925	3 276
Scrap	tonnes	9 937	7 641	7 995	5 266	2 710
Diamond						
Gem, rough	carats	195 180	118 710	8 634	11 566	4 498
Gem, cut	carats	1 182 706	1 112 264	1 209 708	1 147 690	534 700
Industrial	carats	100 219	63 939	39 174	20 205	23 178
Dust	carats	142 135 000	127 740 000	59 930 000	54 445 000	39 130 000
Diatomite	tonnes	3 291	3 157	4 636	4 864	5 071
Feldspar	tonnes	7 977	6 219	8 056	7 653	6 478
Fluorspar	tonnes	714	704	533	571	370
Gold						
Metal	kilograms	1 655 691	1 498 693	1 667 100	2 101 027	2 198 967
Waste and scrap	kilograms	72 764	104 957	57 001	214 839	319 257
Graphite	tonnes	652	722	966	931	306
Gypsum						
Crude	tonnes	76 460	87 964	93 365	101 731	101 228
Calcined	tonnes	88 511	92 787	95 000	97 296	87 350
Iodine	kilograms	7 949	11 133	18 136	7 260	7 156
Iron ore (a)	tonnes	15 145	16 019	15 626	18 704	16 490
Iron, steel and ferro-alloys						
Pig iron	tonnes	24 628	24 497	28 095	28 630	12 256
Sponge and powder	tonnes	9 035	8 900	9 685	8 873	5 931
Ferro-chrome	tonnes	1 203	1 306	1 834	1 803	288
Ferro-manganese	tonnes	9 033	10 423	9 922	11 696	8 003
Ferro-silico-manganese	tonnes	4 341	3 717	5 992	5 011	1 595
Ferro-silicon	tonnes	4 630	7 122	5 287	5 264	4 287
Other ferro-alloys	tonnes	1 602	1 435	1 478	1 086	611
Silicon metal	tonnes	1 135	1 164	1 508	1 255	1 256
Ingots, blooms, billets	tonnes	38 694	47 524	50 301	29 911	9 188
Scrap	tonnes	390 607	499 914	475 542	505 597	313 055
Kaolin	tonnes	37 368	41 481	45 629	39 932	33 555
Lead						
Unwrought	tonnes	8 067	9 185	7 087	9 915	9 446
Lithium						
Oxides	tonnes	81	112	142	143	110
Magnesite and magnesia						
Magnesite	tonnes	168	394	1 024	69	502
Magnesia	tonnes	6 708	7 506	7 144	7 772	4 762
Manganese						
Ores and concentrates	tonnes	469	453	415	472	340
Metal	tonnes	486	444	778	472	282
Mercury	kilograms	5 846	5 333	6 687	3 557	801
Mica	tonnes	601	1 151	3 021	1 088	669
Nickel						
Unwrought (b)	tonnes	1 401	1 706	1 787	2 054	1 202
Crude petroleum	tonnes	4 744 965	5 413 010	4 595 181	5 141 634	4 755 189
Natural gas	tonnes	2 539 454	2 560 801	2 402 267	2 596 153	2 450 414
Phosphate rock	tonnes	3 516	1 612	4 645	358	585
Platinum metals						
Platinum	kilograms	51 377	76 842	43 113	67 022	91 048
Palladium	kilograms	46 565	126 416	46 744	60 666	50 258
Other Platinum metals	kilograms	780	1 078	913	1 255	1 319
Waste and scrap	kilograms	156 229	172 679	267 258	494 962	688 973
Potash						
Sulphate	tonnes	3 325	4 215	5 259	4 685	3 967
Chloride	tonnes	18 971	18 811	19 279	15 158	7 595
Other potassic fertilisers	tonnes	3 411	2 555	2 504	2 861	1 676

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Rare earths						
Rare earth compounds	tonnes	34	38	34	34	30
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	6	44
Salt	tonnes	48 114	19 300	8 913	8 988	70 386
Sillimanite minerals	tonnes	413	463	1 035	1 128	527
Silver						
Ores and concentrates (c)	kilograms	* 309 400	* 792 000	* 39 800	* 9 600	* 100 900
Metal	kilograms	1 484 207	1 306 866	849 037	1 520 531	2 136 092
Sulphur and pyrites						
Pyrites	tonnes	76	69	51	135	68
Sulphur	tonnes	24 977	19 369	20 982	17 425	12 086
Talc	tonnes	10 254	10 786	10 360	8 756	7 987
Tantalum and niobium						
Tantalum	tonnes	1	6	2	4	2
Tin						
Unwrought (b)	tonnes	909	1 042	1 241	1 093	800
Titanium						
Metal	tonnes	1 273	1 357	1 352	1 168	862
Oxides	tonnes	19 055	18 805	20 455	19 550	17 086
Tungsten						
Metal	tonnes	235	146	257	272	105
Zinc						
Unwrought	tonnes	13 045	12 189	14 473	13 715	9 431
Unwrought alloys	tonnes	2 601	2 214	2 700	2 471	1 549
Zirconium						
Metal	tonnes	117	29	29	19	38

Note(s)

(a) Including burnt pyrites

(b) Including alloys

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

Turkey

Production

Commodity	Units	2005	2006	2007	2008	2009
Bauxite	tonnes	356 480	771 227	863 404	* 900 000	406 700
Alumina	tonnes (Al ₂ O ₃ content)	112 558	150 117	163 435	* 150 000	* 150 000
Primary aluminium	tonnes	59 000	60 000	63 400	61 100	30 000
Antimony, mine	tonnes (metal content)	* 1 200	* 1 100	* 1 200	* 1 300	* 1 300
Barytes	tonnes	157 200	160 000	150 000	150 000	150 000
Bentonite and fuller's earth						
Bentonite	tonnes	582 735	* 600 000	748 170	683 253	753 155
Sepiolite	tonnes	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Borates	tonnes	2 087 000	2 373 345	1 997 163	2 139 224	1 682 000
Cement						
Cement clinker	tonnes	31 355 180	32 824 687	39 363 683	41 652 824	41 084 368
Cement, finished	tonnes	41 100 274	47 906 365	50 995 107	54 027 283	55 741 176
Chromium ores and concentrates	tonnes	858 729	1 059 901	1 678 932	1 885 712	1 770 029
Coal						
Anthracite	tonnes	2 785 505	3 070 793	3 230 787	3 343 409	3 773 603
Bituminous	tonnes	737 701	...	...	...	...
Lignite	tonnes	60 867 574	61 010 000	74 316 728	86 074 626	82 263 104
Copper, mine	tonnes (metal content)	54 100	46 400	81 400	83 000	87 070
Copper, smelter	tonnes	27 700	26 300	17 900	38 000	—
Copper, refined	tonnes	94 900	105 800	99 600	88 000	33 500
Feldspar	tonnes	4 750 000	5 500 000	6 000 000	6 500 000	4 000 000
Gold, mine	kilograms (metal content)	4 170	8 040	9 920	11 120	* 15 000
Graphite	tonnes	* 1 100	1 200	* 1 500	* 1 500	* 1 500
Gypsum	tonnes	* 3 500 864	* 4 369 771	* 3 241 177	* 3 000 000	* 3 000 000
Iron ore	tonnes	3 889 934	3 251 969	4 549 556	3 990 110	4 169 972
Pig iron	tonnes	5 398 500	5 952 000	6 235 537	6 697 372	6 913 325
Crude steel	tonnes	20 961 240	23 307 523	25 760 889	26 809 050	25 303 741
Ferro-alloys						
Ferro-chrome	tonnes	26 043	67 975	69 730	75 840	41 028
Ferro-silico-chrome	tonnes	6 695	7 310	6 624	6 094	2 903
Kaolin	tonnes	615 271	* 600 000	456 238	232 746	234 614
Lead, mine	tonnes (metal content)	11 341	14 000	14 000	21 000	15 000
Lead, refined	tonnes	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
Magnesite	tonnes	2 372 206	2 088 033	1 984 908	2 143 047	* 2 000 000
Manganese ore	tonnes	4 751	...	...	...	...
Nickel, mine	tonnes (metal content)	700	1 900	1 700	—	11 300
Perlite	tonnes	156 935	* 160 000	* 160 000	* 160 000	* 160 000
Crude petroleum	tonnes	2 280 764	2 175 353	2 131 288	2 222 594	2 489 914
Natural gas	million m ³	484	307	839	894	660
Salt						
Rock salt	tonnes	512	...	...	...	...
Sea salt	tonnes	529 235	* 500 000	* 500 000	* 500 000	* 500 000
Other salt	tonnes	1 196 486	* 1 200 000	1 385 822	1 367 981	* 1 300 000
Silver, mine	kilograms (metal content)	219 000	* 266 000	* 315 000	* 286 000	* 286 000
Strontium minerals	tonnes	* 18 000	* 6 300	* 4 200	* 1 600	...
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	55 000	59 000	61 000	79 000	79 000
Recovered (a) (b)	tonnes (sulphur content)	76 000	73 000	73 000	73 000	73 000
Zinc, mine	tonnes (metal content)	56 000	59 000	71 000	74 000	79 000

Note(s)

(1) Turkey is believed to produce diatomite and wollastonite

(a) From petroleum refining and/or Natural gas

(b) Other

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	1 631 232	586 393	73 162	1 183 150	908 010
Aluminium and bauxite						
Bauxite	tonnes	1 531	89 764	254 689	262 708	103 317
Alumina	tonnes	45 914	73 707	142 557	118 915	77 727
Unwrought	tonnes	21 034	38 690	47 574	50 056	26 337
Unwrought alloys	tonnes	6 138	9 072	13 012	10 827	9 368
Scrap	tonnes	12 558	14 275	13 415	16 218	14 483
Antimony						
Ores and concentrates	tonnes	920	679	819	1 000	1 408
Metal	tonnes	63	5	28	0	8
Asbestos						
Unmanufactured	tonnes	—	3	990	685	—
Barytes	tonnes	134 482	159 128	115 039	123 485	121 744
Bentonite and fuller's earth						
Bentonite	tonnes	211 926	84 595	22 237	244 177	250 082
Fuller's earth	tonnes	342	251	...	...	...
Cement						
Cement clinkers	tonnes	2 990 365	1 559 980	1 539 287	2 558 779	3 856 403
Portland cement	tonnes	6 713 088	3 277 480	4 323 666	11 010 951	16 356 895
Other cement	tonnes	261 816	112 683	124 395	150 785	245 770
Chromium						
Ores and concentrates	tonnes	834 034	887 689	1 265 036	1 816 427	1 748 194
Metal	tonnes	238	6	7	122	2 667
Coal						
Anthracite	tonnes	10 324	1 259	—	1 043	194
Copper						
Ores and concentrates	tonnes	145 118	68 286	36 046	251 958	356 922
Unwrought	tonnes	13 524	13 876	11 813	41 780	6 742
Scrap	tonnes	15 083	12 630	8 920	9 670	16 426
Diamond						
Dust	carats	£29 000	£15 000	£28 000	£146 000	£128 000
Diatomite	tonnes	23 366	* 32 000	34 424	40 370	39 267
Feldspar (a)	tonnes	* 3 800 000	* 4 300 000	* 4 300 000	* 4 600 000	* 2 500 000
Gold						
Metal	kilograms	29 624	13 581	12 068	142 244	162 208
Graphite	tonnes	72	57	13	390	257
Gypsum						
Crude	tonnes	4 346	26 683	43 195	37 899	145 717
Calcined	tonnes	477 710	481 313	544 954	838 314	643 873
Iodine	kilograms	21 250	20 213	11 098	1 212	31 908
Iron, steel and ferro-alloys						
Pig iron	tonnes	9 358	1 150	—	10 372	10 616
Ferro-chrome	tonnes	39 038	60 952	63 209	39 324	75 236
Other ferro-alloys	tonnes	1 356	1 747	7 122	5 682	6 199
Ingots, blooms, billets	tonnes	2 174 257	1 630 209	1 660 642	2 501 135	2 431 211
Scrap	tonnes	64 281	44 474	29 237	77 654	66 673
Kaolin	tonnes	177 881	192 298	132 834	130 923	61 828
Lead						
Ores and concentrates (b)	tonnes	30 226	18 415	34 715	52 988	35 973
Unwrought	tonnes	2 875	4 271	930	832	361
Magnesite and magnesia						
Magnesite	tonnes	41 353	28 937	40 414	68 054	35 097
Magnesia	tonnes	198 654	205 989	181 870	175 441	162 651
Manganese						
Ores and concentrates	tonnes	955	2 466	13 007	81 280	59 183
Metal	tonnes	—	4	20	401	81
Nickel						
Scrap	tonnes	300	102	79	734	470
Ores and concentrates	tonnes	52 062	91 828	175 712	130 179	99 700
Unwrought (c)	tonnes	48	9	—	232	141
Crude petroleum (a)	tonnes	* 75 000	* 545 000	* 3 584 000	* 4 115 000	* 2 956 000
Natural gas	tonnes	—	2 974	5 392	412 655	665 247
Potash						
Potassic fertilisers	tonnes	313	148	488	3 544	6 438
Salt	tonnes	22 167	17 095	11 164	27 393	26 223
Silver						
Metal	kilograms	27 323	8 932	10 700	20 897	170 009

Turkey

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Sulphur and pyrites						
Sulphur	tonnes	638	152	7 091	21 289	6 495
Sulphur, sublimed and precipitated	tonnes	127	170	15 376	17 259	14 769
Talc	tonnes	2 806	1 195	1 742	1 636	1 712
Tin						
Unwrought (c)	tonnes	17	18	179	118	37
Titanium						
Metal	tonnes	30	17	—	49	47
Oxides	tonnes	2 350	2 023	2 489	2 607	2 237
Tungsten						
Metal	tonnes	115	25	33	99	213
Vanadium						
Pentoxide	tonnes	940	—	24	200	119
Zinc						
Ores and concentrates	tonnes	138 288	144 662	123 956	253 573	272 559
Scrap	tonnes	53	176	281	468	1 929

Note(s)

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

(b) Complex lead-zinc ore

(c) Including alloys

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	7 978	4 661	3 843	4 590	3 636
Aluminium and bauxite						
Bauxite	tonnes	46 016	52 627	53 202	39 256	17 350
Alumina	tonnes	19 665	23 179	12 713	39 507	26 123
Unwrought	tonnes	236 076	245 876	296 098	327 525	358 748
Unwrought alloys	tonnes	146 853	168 498	193 702	270 871	201 124
Scrap	tonnes	16 723	7 061	5 634	16 868	14 215
Antimony						
Metal	tonnes	40	181	308	346	369
Oxide	tonnes	377	381	501	522	588
Arsenic						
Metallic arsenic	tonnes	98	77	63	71	74
Asbestos						
Unmanufactured	tonnes	12 576	6 124	2 518	585	—
Barytes	tonnes	2 003	279	741	455	507
Bentonite and fuller's earth						
Bentonite	tonnes	4 188	5 210	10 541	9 806	1 827
Fuller's earth	tonnes	159	93	...	...	...
Bismuth						
Metal	tonnes	7	11	14	21	15
Bromine (a)	kilograms	125 982	55 642	28 424	6 761	6 497
Cement						
Cement clinkers	tonnes	567 256	1 209 618	1 360 090	380 516	6 053
Portland cement	tonnes	66 260	71 237	39 270	12 279	13 471
Other cement	tonnes	4 693	3 979	4 202	5 036	3 358
Chromium						
Ores and concentrates	tonnes	89 844	84 467	107 524	119 806	113 461
Coal						
Anthracite	tonnes	413 333	502 178	530 393	707 425	457 575
Other coal	tonnes	16 126 628	14 658 368	13 850 371	18 781 879	19 501 679
Cobalt						
Metal	tonnes	167	186	176	148	125
Oxides	tonnes	139	165	142	152	150

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Copper						
Ores and concentrates	tonnes	44 633	18 111	32	3 884	—
Unwrought, unrefined	tonnes	53 214	54 790	34 389	38 116	4 852
Unwrought, refined	tonnes	223 978	150 412	128 077	287 705	289 672
Unwrought alloys	tonnes	3 212	2 160	1 975	3 060	2 828
Scrap	tonnes	10 104	6 602	3 013	1 263	870
Diamond						
Gem	carats	124 043	112 906	135 413	141 553	51 740
Industrial	carats	27 325	44 601	36 999	102 596	29 724
Dust	carats	26 765 000	13 675 000	9 835 000	18 430 000	19 120 000
Diatomite	tonnes	1 460	1 619	1 385	1 491	1 392
Feldspar	tonnes	40 739	44 159	46 323	28 594	28 166
Fluorspar	tonnes	30 446	21 750	23 139	34 073	36 114
Gold						
Metal	kilograms	403 415	157 792	155 471	179 606	52 654
Graphite	tonnes	11 956	6 300	6 095	13 230	6 788
Gypsum						
Crude and calcined	tonnes	196 747	278 129	180 159	167 572	202 523
Iodine	kilograms	5 634	3 219	8 594	9 498	12 133
Iron ore						
Iron ore	tonnes	4 621 446	7 197 305	6 925 163	5 004 508	7 757 561
Burnt pyrites	tonnes	63 666	11 596	...	17 092	14 097
Iron, steel and ferro-alloys						
Pig iron	tonnes	396 658	333 981	338 641	802 741	770 160
Sponge and powder	tonnes	68 952	34 440	19 801	96 393	81 008
Ferro-chrome	tonnes	5 443	4 610	11 138	11 321	2 787
Ferro-manganese	tonnes	43 743	60 213	56 619	73 319	46 760
Ferro-silico-manganese	tonnes	159 496	216 036	236 039	195 623	191 605
Ferro-molybdenum	tonnes	1 253	1 020	1 628	1 645	1 173
Ferro-niobium	tonnes	433	435	446	609	338
Ferro-phosphorus	tonnes	1 710	919	246	1 731	412
Ferro-silicon	tonnes	58 007	72 599	100 758	90 477	60 164
Ferro-titanium and ferro-silico-titanium	tonnes	447	649	616	634	651
Ferro-vanadium	tonnes	426	483	472	529	323
Other ferro-alloys	tonnes	5 983	7 357	9 642	12 345	6 060
Silicon metal	tonnes	4 794	5 233	2 530	6 207	5 852
Ingots, blooms, billets	tonnes	1 816 973	1 504 374	1 930 627	3 849 141	3 590 665
Scrap	tonnes	13 010 728	12 860 533	13 335 810	17 414 983	15 372 727
Kaolin	tonnes	265 530	190 924	163 015	402 812	301 086
Lead						
Unwrought	tonnes	71 680	56 792	46 966	79 460	73 520
Lithium						
Oxides	tonnes	183	248	245	257	208
Carbonate	tonnes	433	491	683	617	613
Magnesite and magnesia						
Magnesia	tonnes	52 432	29 148	43 360	61 519	40 595
Manganese						
Ores and concentrates	tonnes	259	383	428	2 531	540
Metal	tonnes	300	509	719	874	583
Mercury	kilograms	1 440	2 052	9	3 069	1 635
Mica	tonnes	266	413	293	385	477
Molybdenum						
Ores and concentrates	tonnes	1	2	4	3	291
Metal	tonnes	4	6	8	89	16
Oxides	tonnes	82	80	69	167	54
Nickel						
Unwrought (b)	tonnes	3 333	3 417	3 710	4 038	2 711
Oxides	tonnes	128	150	140	142	148
Crude petroleum	tonnes	23 389 647	23 786 875	23 445 764	21 833 471	14 219 427
Phosphate rock	tonnes	496 738	744 504	782 996	741 190	707 595
Platinum metals						
Platinum and platinum metals	kilograms	188	212	316	463	235
Potash						
Sulphate	tonnes	39 198	19 373	57 661	33 427	11 576
Chloride	tonnes	135 433	78 671	96 038	82 412	50 634

Turkey

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Rare earths						
Rare earth compounds	tonnes	155	117	183	360	204
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	12	10
Metals	tonnes	0	0	8	9	9
Salt	tonnes	320 147	285 694	35 382	257 146	99 400
Sillimanite minerals	tonnes	5 504	2 939	6 987	9 535	8 526
Silver						
Metal	kilograms	409 844	108 588	996 239	154 639	57 700
Sulphur and pyrites						
Pyrites	tonnes	94	231	252	224	67
Sulphur	tonnes	139 197	162 187	168 952	128 685	164 034
Sulphur, sublimed and precipitated	tonnes	111	111	194	321	1 315
Talc	tonnes	15 454	17 143	18 549	17 706	14 893
Tin						
Unwrought (b)	tonnes	2 731	2 380	2 788	2 603	1 630
Titanium						
Titanium minerals	tonnes	6 755	6 831	* 9 000	7 762	5 628
Oxides	tonnes	92 136	108 721	111 858	106 206	98 100
Zinc						
Unwrought	tonnes	141 842	397 384	136 916	147 215	137 765
Unwrought alloys	tonnes	6 121	5 481	3 775	4 091	1 714
Scrap	tonnes	153	3 206	1 913	1 381	181
Zirconium						
Concentrates	tonnes	4 581	1 118	980	4 844	2 918

Note(s)

(a) May include some fluorine

(b) Including alloys

United Kingdom

Production

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates						
Sand and gravel	tonnes	94 666 000	92 107 000	93 236 000	85 473 000	66 226 000
Crushed rock (a)	tonnes	141 636 000	145 578 000	148 534 000	127 996 000	99 444 000
Primary aluminium	tonnes	368 477	360 325	364 595	326 900	313 702
Barytes	tonnes	64 000	48 000	53 000	43 000	36 000
Bentonite and fuller's earth						
Fuller's earth (b)	tonnes	6 200	—	—	—	—
Cement						
Cement clinker	tonnes	10 074 000	10 069 000	10 227 000	8 700 000	6 421 000
Cement, finished	tonnes	11 216 000	11 469 000	11 887 000	10 071 000	7 623 000
Coal						
Bituminous (c)	tonnes	20 498 000	18 517 000	17 070 000	18 053 000	17 874 000
Feldspar (d) (e)	tonnes	1 835	1 441	1 112	430	* 400
Fluorspar	tonnes	56 417	49 676	44 936	36 801	18 536
Gold, mine	kilograms (metal content)	—	—	88	163	188
Gypsum	tonnes	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Iron ore	tonnes	354	341	* 300	145	—
Pig iron	tonnes	10 188 800	10 695 700	10 959 800	10 136 800	7 674 000
Crude steel	tonnes	13 238 900	13 904 600	14 392 300	13 520 500	10 080 000
Kaolin (f) (g)	tonnes	1 910 874	1 762 328	1 671 426	1 355 365	1 059 848
Lead, mine	tonnes (metal content)	* 400	* 400	* 300	* 300	* 300
Lead, refined	tonnes	304 350	318 703	263 391	283 000	301 865
Nickel, smelter/refinery	tonnes	37 600	36 750	34 050	40 800	17 800
Crude petroleum	tonnes	77 179 000	69 665 000	70 357 000	65 497 000	62 820 000
Natural gas	million m ³	93 505	84 748	76 970	74 936	62 890
Potash						
Chloride	tonnes (K ₂ O content)	439 200	427 000	430 000	403 800	360 000
Salt						
Rock salt	tonnes	* 2 000 000	* 2 000 000	* 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 (h)	tonnes	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000
Silver, mine	kilograms (metal content)	—	—	212	398	505
Sulphur and pyrites						
Recovered (i)	tonnes (sulphur content)	124 000	115 000	130 000	135 000	145 000
Talc	tonnes	6 000	4 325	2 850	2 410	2 861

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 the 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) Including weathered granite feldspar

(e) China stone

(f) Sales

(g) Dry weight

(h) Used for purposes other than salt-making

(i) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	13 304 920	14 631 060	14 048 387	13 008 608	10 714 861
Aluminium and bauxite						
Bauxite	tonnes	4 325	28 636	4 276	6 121	3 873
Alumina	tonnes	4 336	9 979	9 016	9 517	16 810
Alumina hydrate (a)	tonnes	* 20 600	* 1 900	* 5 300	* 5 300	* 4 400
Unwrought	tonnes	48 684	17 530	30 631	20 690	17 688
Unwrought alloys	tonnes	329 691	331 598	269 523	265 018	305 849
Scrap	tonnes	474 587	385 211	906 831	872 988	422 574
Antimony						
Metal	tonnes	54	27	21	35	75
Oxide	tonnes	621	397	379	558	407
Barytes	tonnes	16 334	4 250	9 242	9 976	13 095
Bentonite and fuller's earth						
Bentonite	tonnes	49 514	42 548	47 122	43 261	34 622
Fuller's earth	tonnes	778	1 102	...	...	...
Bismuth						
Metal	tonnes	2 426	2 703	2 588	905	941
Bromine	kilograms	234 977	1 137 544	1 469 781	1 015 304	497 246
Cadmium						
Metal	tonnes	79	7	76	54	25
Cement						
Cement clinkers	tonnes	134 992	91 357	28 432	15 071	4 708
Portland cement	tonnes	320 680	521 784	459 629	230 920	92 628
Other cement	tonnes	68 554	86 858	88 452	93 122	51 359
Chromium						
Ores and concentrates	tonnes	228	47	178	—	32 507
Metal	tonnes	4 547	5 123	6 777	6 501	5 058
Coal						
Anthracite	tonnes	169 252	137 353	123 549	165 473	119 472
Other coal	tonnes	380 426	354 281	419 193	742 582	391 414
Lignite	tonnes	2 321	2 748	1 965	2 334	2 186
Briquettes	tonnes	20 713	20 037	27 591	52 605	68 226
Cobalt						
Metal	tonnes	1 471	1 695	2 300	2 614	2 572
Oxides	tonnes	994	750	689	798	891
Copper						
Matte and cement	tonnes	41	515	16	28	14
Unwrought, unrefined	tonnes	271	153	786	3 066	205
Unwrought, refined	tonnes	15 982	5 969	8 489	4 850	14 059
Unwrought alloys	tonnes	15 013	17 251	18 142	17 822	11 839
Scrap	tonnes	238 557	311 058	346 361	358 981	429 467
Diamond						
Unsorted	carats	16 818 545	3 544 216	5 307 857	3 388 395	4 090 534
Gem, rough	carats	76 400 064	88 991 279	84 573 134	66 479 817	43 775 775
Gem, cut	carats	5 330 874	2 341 635	477 463	795 612	257 202
Industrial	carats	21 647 850	13 652 233	4 754 029	6 121 081	8 881 844
Dust	carats	124 529 495	111 788 350	104 552 775	122 681 695	105 427 132
Diatomite	tonnes	708	687	1 238	903	533
Feldspar	tonnes	48	38	40	82	369
Fluorspar	tonnes	4 315	2 451	589	187	303
Gold						
Metal	kilograms	638 262	166 080	224 598	600 018	96 231
Waste and scrap	kilograms	541 399	313 712	282 298	272 339	533 182
Graphite	tonnes	2 685	2 979	3 065	3 156	2 271
Gypsum						
Crude	tonnes	2 299	2 679	1 248	1 493	1 978
Calcined	tonnes	54 356	63 533	57 988	48 340	32 551
Iodine	kilograms	197 086	314 659	368 785	174 965	121 370
Iron ore	tonnes	2 107	5 229	5 396	7 731	32 579

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 387	5 407	15 892	2 523	27 765
Sponge and powder	tonnes	3 605	2 346	4 969	2 794	3 103
Ferro-chrome and ferro-silico-chrome	tonnes	6 238	4 066	2 973	1 385	1 525
Ferro-silico-chrome	tonnes	8	8	35	9	50
Ferro-silico-magnesium	tonnes	542	653	917	976	1 373
Ferro-manganese	tonnes	661	946	1 136	1 210	963
Ferro-silico-manganese	tonnes	5 003	60	7	49	129
Ferro-molybdenum	tonnes	11 501	12 004	11 823	11 283	7 634
Ferro-nickel	tonnes	55	329	52	81	18
Ferro-niobium	tonnes	79	74	49	58	52
Ferro-phosphorus	tonnes	189	36	33	45	312
Ferro-silicon	tonnes	2 652	2 733	2 314	3 250	3 338
Ferro-titanium and ferro-silico-titanium	tonnes	17 361	17 645	19 515	18 557	13 098
Ferro-tungsten and ferro-silico-tungsten	tonnes	37	17	8	31	1
Ferro-vanadium	tonnes	157	151	96	79	64
Other ferro-alloys	tonnes	6 167	4 327	3 867	5 002	2 142
Silicon metal	tonnes	2 466	6 963	11 325	151 132	7 753
Ingots, blooms, billets	tonnes	2 246 377	2 692 654	3 514 850	3 348 794	2 118 701
Scrap	tonnes	6 105 955	7 407 174	6 013 907	6 616 708	6 007 656
Kaolin (b)	tonnes	1 698 747	1 566 025	1 490 416	1 188 267	932 180
Lead						
Unwrought	tonnes	52 593	89 271	68 152	57 466	181 248
Unwrought alloys	tonnes	38 806	48 589	39 246	79 520	54 505
Scrap	tonnes	27 248	1 859	31 942	47 660	56 055
Lithium						
Oxides	tonnes	125	94	92	232	569
Carbonate	tonnes	203	271	158	216	193
Magnesite and magnesia						
Magnesite	tonnes	87	26	51	316	518
Magnesia	tonnes	20 077	19 036	16 371	13 647	9 662
Manganese						
Metal (a)	tonnes	* 3 100	* 2 000	* 2 100	* 3 100	* 1 800
Mercury	kilograms	191 193	78 514	4 311	6 369	178 571
Mica	tonnes	4 052	4 593	3 820	4 749	3 944
Molybdenum						
Ores and concentrates	tonnes	179	166	78	64	35
Metal	tonnes	807	318	237	241	433
Natural gas	tonnes	1 373 020	60 124	30 814	7 641	1 416
Nickel						
Mattes, sinters etc	tonnes	196	517	40	26	107
Unwrought	tonnes	38 524	31 610	24 147	26 235	15 834
Unwrought alloys	tonnes	6 141	6 486	4 375	4 378	4 753
Scrap	tonnes	14 119	15 555	16 872	18 229	12 693
Crude petroleum	tonnes	50 619 044	47 864 601	47 058 702	43 354 245	43 550 953
Phosphate rock	tonnes	1 548	335	504	759	514
Platinum metals						
Platinum	kilograms	41 500	42 843	52 789	40 630	43 177
Palladium	kilograms	51 807	48 688	56 994	47 142	53 091
Other Platinum metals	kilograms	17 852	23 353	23 731	22 548	20 044
Waste and scrap	kilograms	2 881 226	3 507 381	3 793 637	4 278 682	4 273 222
Potash						
Chloride	tonnes	* 340 000	* 430 000	* 350 000	* 283 000	* 200 000
Other potassic fertilisers	tonnes	699	612	399	562	228
Rare earths						
Cerium compounds	tonnes	121	111	37	73	105
Other rare earth compounds	tonnes	1 189	954	1 089	622	459
Ferro-cerium and other pyrophoric alloys	tonnes	2	76	80	7	6
Metals	tonnes	26	29	143	237	54
Salt	tonnes	538 796	557 311	514 868	873 708	449 303
Sillimanite minerals	tonnes	2 417	1 925	2 430	2 076	1 414
Silver						
Ores and concentrates	kilograms	13 387	...	1 627	192	1 338
Metal	kilograms	2 289 098	1 069 383	2 317 951	6 071 009	943 522

United Kingdom

Exports continued

Commodity	Units	2005	2006	2007	2008	2009
Sulphur and pyrites						
Sulphur, crude	tonnes	105	113	8 207	13 182	2 545
Sulphur, refined	tonnes	326	643	15 268	27 872	38 723
Sulphur, sublimed and precipitated	tonnes	1 458	1 312	624	1 144	1 902
Talc	tonnes	5 244	4 626	2 389	3 129	2 402
Tantalum and niobium						
Tantalum	tonnes	131	83	77	55	72
Tin						
Concentrates	tonnes	2	4	373	254	61
Unwrought	tonnes	1 608	8 395	4 085	1 264	928
Unwrought alloys	tonnes	442	698	696	532	537
Scrap	tonnes	20 603	35 252	27 329	19 110	22 597
Titanium						
Metal	tonnes	17 212	14 028	12 934	11 155	9 555
Oxides	tonnes	215 741	182 246	212 068	222 503	203 873
Tungsten						
Metal	tonnes	1 732	2 100	2 444	1 625	1 541
Carbide	tonnes	83	251	303	51	80
Vanadium						
Pentoxide	tonnes	20	23	697	589	487
Metal	tonnes	433	69	2 182	2	18
Zinc						
Ores and concentrates	tonnes	141	468	82	246	11 418
Unwrought	tonnes	1 661	5 325	5 932	3 883	3 600
Unwrought alloys	tonnes	38 267	37 120	33 799	28 408	13 578
Scrap	tonnes	9 881	4 571	7 543	5 699	6 030
Zirconium						
Concentrates	tonnes	699	902	1 096	716	742
Metal	tonnes	127	90	54	61	19

Note(s)

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

(b) Dry weight

Imports

Commodity	Units	2005	2006	2007	2008	2009
Primary aggregates	tonnes	2 160 513	2 905 198	2 806 448	2 631 986	2 054 272
Aluminium and bauxite						
Bauxite	tonnes	103 522	86 882	48 741	57 971	37 461
Alumina	tonnes	755 443	823 115	787 218	705 033	352 250
Alumina hydrate	tonnes	130 321	101 126	112 287	110 503	98 516
Unwrought	tonnes	114 189	169 259	201 262	160 797	304 621
Unwrought alloys	tonnes	87 063	245 496	93 145	93 210	43 601
Scrap	tonnes	116 285	137 626	158 827	145 819	117 651
Antimony						
Metal	tonnes	60	81	110	98	88
Oxide	tonnes	2 048	2 291	1 917	2 454	1 548
Arsenic						
Metallic arsenic	tonnes	3	49	70	52	60
Asbestos						
Unmanufactured	tonnes	...	0	187	...	11
Barytes	tonnes	54 753	78 225	84 617	56 794	61 308
Bentonite and fuller's earth						
Bentonite	tonnes	151 179	173 483	157 388	205 853	140 301
Sepiolite	tonnes	65 565	72 340	282 733	227 453	70 651
Fuller's earth	tonnes	3 122	14 700	...	...	...
Bismuth						
Metal	tonnes	2 858	2 347	1 908	1 582	310
Bromine	kilograms	7 994 939	7 592 352	5 266 339	5 903 423	6 534 300
Cadmium						
Metal	tonnes	206	129	276	212	246

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Cement						
Cement clinkers	tonnes	406 044	516 583	836 788	366 791	206 857
Portland cement	tonnes	1 645 088	1 397 025	1 534 683	1 731 228	1 718 146
Other cement	tonnes	37 705	26 790	26 215	28 324	30 815
Chromium						
Ores and concentrates	tonnes	122 042	74 907	103 551	117 715	33 867
Metal	tonnes	1 723	4 022	2 134	3 099	2 904
Coal						
Anthracite	tonnes	187 388	125 011	135 941	213 318	207 327
Other coal	tonnes	43 890 778	49 544 012	43 024 560	43 038 043	36 553 574
Briquettes	tonnes	6 554	9 995	6 501	14 131	9 021
Cobalt						
Ore	tonnes	6	74	59	72	200
Metal	tonnes	3 888	4 427	5 422	5 395	3 928
Oxides	tonnes	107	195	180	138	168
Copper						
Unwrought, unrefined	tonnes	1 978	264	7 401	5 529	3 034
Unwrought, refined	tonnes	181 767	183 727	46 820	47 716	45 249
Unwrought alloys	tonnes	820	6 399	6 202	5 721	4 066
Scrap	tonnes	42 264	19 744	21 852	21 132	18 549
Diamond						
Unsorted	carats	33 441 810	14 408 621	13 661 786	10 283 610	8 348 854
Gem, rough	carats	78 735 595	78 790 692	81 195 314	59 534 653	44 064 081
Gem, cut	carats	12 039 040	7 370 573	973 433	1 343 330	868 406
Industrial	carats	25 367 064	11 884 651	7 524 168	5 127 610	6 643 340
Dust	carats	125 510 400	199 882 920	198 484 150	187 268 975	88 148 090
Diatomite	tonnes	29 208	28 290	24 224	23 084	22 014
Feldspar	tonnes	23 139	17 098	26 751	18 899	9 299
Fluorspar	tonnes	4 051	6 620	3 875	8 429	6 436
Gold						
Metal	kilograms	351 258	781 840	649 163	914 000	1 166 948
Waste and scrap	kilograms	66 198	7 925	17 046	43 143	213 440
Graphite	tonnes	17 766	16 978	17 225	14 309	7 850
Gypsum						
Crude	tonnes	627 595	369 714	196 613	140 783	396 138
Calcined	tonnes	133 522	92 069	52 678	88 766	60 337
Iodine	kilograms	1 092 633	1 019 543	1 225 368	1 106 864	1 075 328
Iron ore						
Iron ore	tonnes	16 204 615	16 370 705	17 435 472	15 282 786	9 185 919
Burnt pyrites	tonnes	1 911	1 282	131 230	693	232
Iron, steel and ferro-alloys						
Pig iron	tonnes	102 531	81 689	89 863	61 657	19 703
Sponge and powder	tonnes	21 914	34 768	11 766	27 003	17 483
Ferro-chrome	tonnes	63 478	52 494	46 975	79 692	34 884
Ferro-silico-chrome	tonnes	728	350	1 242	128	26
Ferro-silico-magnesium	tonnes	5 448	3 810	2 303	1 614	1 535
Ferro-manganese	tonnes	79 045	86 598	100 694	96 461	49 700
Ferro-silico-manganese	tonnes	57 136	59 985	56 036	52 966	74 227
Ferro-molybdenum	tonnes	861	640	515	369	327
Ferro-nickel	tonnes	11 325	13 169	14 960	16 520	2 777
Ferro-niobium	tonnes	1 175	1 098	1 490	1 189	686
Ferro-phosphorus	tonnes	3 261	386	2 070	2 473	282
Ferro-silicon	tonnes	116 450	64 610	66 838	59 438	31 091
Ferro-titanium and ferro-silico-titanium	tonnes	1 883	1 087	1 677	1 290	396
Ferro-vanadium	tonnes	609	1 623	755	543	209
Other ferro-alloys	tonnes	2 499	2 399	3 281	2 264	3 090
Silicon metal	tonnes	77 103	29 512	25 787	56 807	67 882
Ingots, blooms, billets	tonnes	722 452	1 053 176	849 803	679 019	212 829
Scrap	tonnes	180 261	154 967	204 100	228 294	213 818
Kaolin	tonnes	84 617	99 262	73 014	79 546	77 504
Lead						
Unwrought, base bullion (a)	tonnes	173 910	120 871	119 726	194 113	130 312
Unwrought, other	tonnes	31 347	53 892	31 187	39 493	17 277
Scrap	tonnes	3 898	5 914	17 685	4 621	4 962
Lithium						
Oxides	tonnes	446	385	614	466	914
Carbonate	tonnes	657	650	779	536	622

United Kingdom

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Magnesite and magnesite						
Magnesite	tonnes	13 896	10 644	10 194	7 016	3 567
Magnesia	tonnes	78 843	64 896	57 905	59 300	43 873
Manganese						
Ores and concentrates (b)	tonnes	698	8 458	1 569	4 133	941
Metal	tonnes	8 223	8 563	7 021	8 773	4 123
Mercury	kilograms	32 306	2 128	2 668	2 387	1 121
Mica						
Unmanufactured	tonnes	296	251	289	377	328
Ground	tonnes	6 684	5 856	6 705	7 061	6 396
Waste	tonnes	4 485	3 474	3 433	2 030	49
Molybdenum						
Ores and concentrates	tonnes	18 600	19 032	18 381	15 130	9 007
Metal	tonnes	2 877	3 445	1 390	2 102	707
Oxides	tonnes	630	635	513	1 433	510
Natural gas	tonnes	7 309 558	7 881 575	15 277 213	18 133 087	25 002 507
Nickel						
Mattes, sinters etc	tonnes	57 492	56 336	62 637	63 553	25 929
Unwrought	tonnes	24 019	17 414	21 044	16 888	8 003
Unwrought alloys	tonnes	1 629	2 883	2 947	3 210	3 596
Scrap	tonnes	10 927	7 975	10 376	10 291	9 593
Oxides	tonnes	277	59	49	13	1
Crude petroleum	tonnes	54 067 943	55 735 570	44 129 689	52 103 843	50 656 965
Phosphate rock	tonnes	30 177	7 803	23 052	28 971	5 600
Platinum metals						
Platinum	kilograms	51 553	23 472	26 015	29 943	30 339
Palladium	kilograms	30 576	37 226	42 395	32 806	36 652
Other Platinum metals	kilograms	7 134	9 127	6 507	5 409	6 713
Waste and scrap	kilograms	1 271 315	1 148 802	1 456 413	1 416 905	1 100 117
Potash						
Fertiliser salts	tonnes	9 517	10 696	...	...	...
Sulphate	tonnes	12 206	14 274	16 166	15 157	15 766
Chloride	tonnes	198 893	170 942	202 623	165 331	80 842
Other potassic fertilisers	tonnes	945	1 310	10 813	11 919	10 422
Rare earths						
Cerium compounds	tonnes	2 324	1 615	2 167	2 067	612
Other rare earth compounds	tonnes	775	600	664	251	103
Ferro-cerium and other pyrophoric alloys	tonnes	19	60	77	57	148
Metals	tonnes	166	88	88	133	99
Salt	tonnes	287 623	246 879	237 772	237 288	410 434
Sillimanite minerals						
Sillimanite minerals	tonnes	39 650	10 268	10 239	11 920	7 763
Mullite	tonnes	10 430	7 468	12 036	6 488	5 255
Silver						
Ores and concentrates	kilograms	12 640	249	8 283	8 332	1 106
Metal	kilograms	1 485 290	7 316 639	3 635 563	3 943 638	6 649 190
Waste and scrap	kilograms	2 282 562	2 741 705	3 049 452	4 222 712	3 311 165
Sulphur and pyrites						
Pyrites	tonnes	26	19	105	704	104
Sulphur, crude	tonnes	24 222	11 608	5 101	64	74
Sulphur, refined	tonnes	7 263	7 334	8 577	9 574	6 211
Sulphur, sublimed and precipitated	tonnes	577	1 297	1 073	1 186	473
Talc	tonnes	65 496	55 200	54 812	53 864	39 520
Tantalum and niobium						
Tantalum	tonnes	97	119	96	161	145
Tin						
Unwrought	tonnes	4 812	3 558	13 630	7 181	4 522
Unwrought alloys	tonnes	2 067	891	525	400	370
Scrap	tonnes	468	1 728	452	448	121
Titanium						
Ilmenite	tonnes	80 435	175 882	181 794	194 719	112 068
Other titanium minerals	tonnes	109 238	48 147	42	37	23
Titanium slag	tonnes	64 849	91 603	151 494	316 390	127 224
Metal	tonnes	27 938	30 267	30 905	32 305	23 178
Oxides	tonnes	67 102	71 528	74 708	58 748	53 864

Imports continued

Commodity	Units	2005	2006	2007	2008	2009
Tungsten						
Metal	tonnes	3 204	4 607	2 925	1 865	1 477
Carbide	tonnes	974	913	1 409	1 023	614
Vanadium						
Pentoxide	tonnes	339	472	425	344	84
Metal	tonnes	812	407	583	314	112
Zinc						
Unwrought	tonnes	135 840	119 676	122 458	119 911	84 594
Unwrought alloys	tonnes	16 128	15 666	13 201	8 524	1 869
Zirconium						
Concentrates	tonnes	19 519	13 729	11 007	13 092	6 386
Metal	tonnes	338	467	446	521	203

Note(s)

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

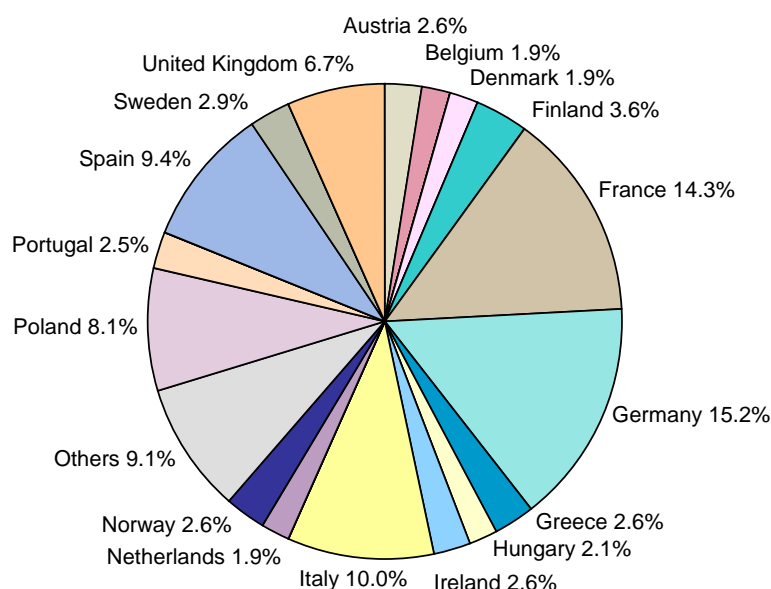
(b) Including manganiferous iron ore

STATISTICAL INFORMATION BY COMMODITY

Primary aggregates

- Primary aggregates are sand, gravel and crushed rock aggregates that are widely used in the construction industry. The trade data presented here are for crushed rock combined with sand and gravel.
- Aggregates data are very difficult to establish accurately. 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 used primarily by the construction industry to build and maintain the physical infrastructure on which everyone depends: houses, offices, roads, schools, hospitals, railways, shops, flood defences, etc. Aggregates are either used directly, for example for drainage or fill purposes, or are used to manufacture concrete and asphalt.
- Germany was the largest EU33 producer of primary aggregates in 2009, with 377.5 million tonnes (15.2 per cent of EU total), closely followed by France (14.3 per cent). Despite production falling by nearly seven per cent, Italy moved ahead of Spain for the first time in 2009 due to Spain's output falling by 29 per cent compared to the previous year. Almost every country in the EU33 saw their production of aggregates decline in 2009 as a result of the global recession; the only country to reverse this trend was Poland where output increased by seven per cent.

EU33 Production of aggregates 2009



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

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Sand and gravel (a)	29 065 350	27 281 864	29 230 545	32 440 624	30 457 247
Crushed rock (a)	25 093 602	26 536 938	25 248 136	33 867 686	33 046 433
Belgium					
Sand and gravel (b) (c)	8 330 239	8 636 966	* 8 600 000	* 8 600 000	* 8 000 000
Crushed rock (b) (d)	38 826 735	39 937 651	* 43 000 000	* 42 000 000	* 40 000 000
Bulgaria					
Sand and gravel	12 835 622	15 289 051	17 607 212	19 697 937	12 882 651
Crushed rock	8 121 646	8 889 017	12 199 339	21 094 047	15 667 880
Croatia					
Sand and gravel	...	...	...	7 275 077	6 583 880
Cyprus					
Crushed rock	12 064 112	12 198 513	13 129 470	14 174 480	11 467 987
Czech Republic					
Sand and gravel	15 672 765	16 931 536	16 036 363	17 943 635	15 876 221
Crushed rock	30 221 600	32 731 255	35 302 421	36 282 774	24 760 133
Denmark					
Sand and gravel	69 500 000	72 508 000	68 255 000	59 937 000	46 932 000
Crushed rock	378 000	372 000	410 000	384 000	312 000

Production continued

tonnes

Country	2005	2006	2007	2008	2009
Estonia					
Sand and gravel	3 459 760	4 209 080	6 531 740	3 635 700	3 911 980
Crushed rock	6 828 600	8 298 400	8 855 800	7 945 900	6 034 500
Finland					
Sand and gravel	53 000 000	54 000 000	59 000 000	* 59 000 000	* 47 000 000
Crushed rock	45 000 000	46 000 000	54 000 000	* 54 000 000	* 43 000 000
France					
Sand and gravel	168 640 000	174 360 000	180 450 000	171 610 000	146 290 000
Crushed rock	222 780 000	233 090 000	242 950 000	236 770 000	209 440 000
Germany					
Sand and gravel	252 000 000	266 000 000	263 300 000	260 000 000	245 000 000
Crushed rock	122 244 000	138 700 000	134 000 000	137 400 000	132 500 000
Greece	* 90 000 000	* 90 000 000	* 90 000 000	* 85 000 000	* 65 000 000
Hungary					
Sand and gravel	69 027 609	46 458 296	34 815 891	36 647 400	35 248 167
Crushed rock	15 078 440	17 944 036	13 046 962	17 030 760	16 462 070
Ireland, Republic of					
Sand and gravel	* 40 000 000	* 64 000 000	* 40 000 000	* 25 000 000	* 20 000 000
Crushed rock	* 94 000 000	* 96 000 000	* 90 000 000	* 60 000 000	* 45 000 000
Italy					
Sand and gravel (a)	183 908 475	185 382 004	170 071 749	174 779 712	164 218 753
Crushed rock (a)	69 164 106	91 397 876	97 463 072	91 373 378	84 717 579
Latvia					
Sand and gravel	6 059 487	5 957 744	9 998 863	8 905 937	6 507 487
Crushed rock	586 607	582 081	937 030	1 413 395	815 712
Lithuania					
Sand and gravel	7 034 402	7 633 311	9 181 552	9 469 411	5 029 476
Crushed rock	4 757 023	5 259 535	6 424 791	6 913 160	2 849 122
Netherlands					
Sand and gravel	63 579 000	72 147 000	69 437 000	67 622 000	* 47 000 000
Norway					
Sand and gravel	15 000 000	13 418 000	14 855 000	14 817 000	13 047 000
Crushed rock	38 000 000	45 947 000	51 533 000	52 338 000	51 378 000
Poland					
Sand and gravel (e)	* 99 648 000	* 116 561 000	* 139 388 000	* 149 312 000	* 150 000 000
Crushed rock	33 098 360	38 835 618	46 854 829	39 465 558	52 217 696
Portugal					
Sand and gravel	8 284 238	9 764 029	10 664 828	* 10 100 000	* 9 900 000
Crushed rock	73 343 159	65 428 239	60 822 000	* 57 000 000	* 51 500 000
Romania					
Sand and gravel	17 030 886	21 817 372	26 276 857	31 377 110	17 424 115
Crushed rock	2 328 165	3 373 384	5 905 842	4 635 010	4 214 806
Slovakia					
Sand and gravel	6 807 116	7 522 034	6 470 725	7 517 655	* 6 919 826
Crushed rock	13 834 800	14 088 600	13 338 000	16 345 800	15 233 400
Slovenia					
Sand and gravel	12 432 000	17 873 000	21 548 000	19 171 000	15 720 000
Crushed rock	12 223 182	14 213 319	14 279 253	14 982 560	13 609 727
Spain					
Sand and gravel	125 299 480	130 000 000	143 000 000	118 000 000	105 000 000
Crushed rock	340 000 000	355 000 000	280 000 000	214 000 000	130 000 000
Sweden					
Sand and gravel	21 755 752	21 488 963	20 036 785	18 804 343	14 400 000
Crushed rock	62 313 089	70 517 845	64 047 058	66 757 671	57 500 000
Switzerland					
Sand and gravel	46 500 000	50 000 000	* 50 000 000	* 37 000 000	...
Crushed rock	5 300 000	5 700 000	* 5 700 000	* 5 000 000	...
United Kingdom					
Sand and gravel	94 666 000	92 107 000	93 236 000	85 473 000	66 226 000
Crushed rock (f)	141 636 000	145 578 000	148 534 000	127 996 000	99 444 000
EU33 Total	2 937 000 000	3 108 000 000	3 066 000 000	2 898 000 000	2 488 000 000

Note(s)
(See over)

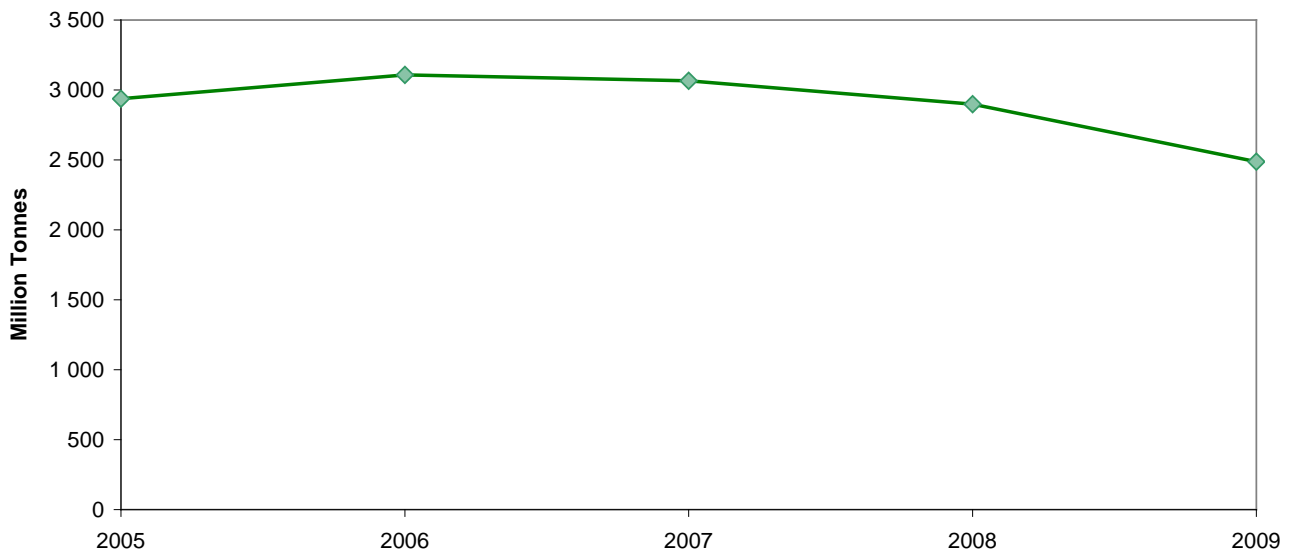
Aggregates

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 uses; granules, chippings and powders. Listed under Prodcod codes 14211190, 14211210, 14211230, 14211250 and 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 EU33 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 an estimate for small producers
 - (f) Includes small quantities for other purposes in Northern Ireland

EU33 Production of aggregates 2005 - 09



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

tonnes

Country	2005	2006	2007	2008	2009
Austria	2 745 393	3 086 027	3 394 988	3 130 358	2 634 211
Belgium-Luxembourg	14 573 270	15 452 434	16 081 634	15 843 526	13 721 097
Bulgaria	160 032	282 018	330 088	268 120	76 129
Croatia	1 908 732	2 390 517	3 334 229	2 950 159	3 087 216
Cyprus	55	5 118	148 994	124 576	38 469
Czech Republic	468 540	772 913	716 787	699 987	597 101
Denmark	787 389	973 497	1 194 349	846 490	955 036
Estonia	522 792	563 697	573 530	701 067	503 048
Finland	580 815	735 655	837 957	850 685	645 609
France	8 492 936	8 928 358	8 383 027	8 565 175	7 586 323
Germany	21 698 651	25 912 337	29 024 954	29 470 321	27 973 749
Greece	43 306	48 990	49 781	50 453	59 216
Hungary	736 586	961 775	1 889 989	1 382 695	1 294 700
Iceland	1 081	14 236	35 965	41 024	29 712
Ireland, Republic of	62 729	230 125	85 146	255 295	40 626
Italy	1 734 620	1 720 142	1 482 346	1 522 229	1 308 016
Latvia	13 178	11 618	32 783	54 321	121 260
Lithuania	957 488	871 522	1 053 802	943 673	163 850
Netherlands	6 900 000	9 100 000	9 300 000	10 400 000	* 10 000 000
Norway	13 334 212	14 357 509	16 183 927	16 683 638	13 843 722
Poland	1 237 482	1 671 890	1 378 634	1 237 976	902 193
Portugal	138 939	101 721	120 914	44 174	101 421
Romania	63 110	51 793	111 803	60 190	160 241
Slovakia (a)	* 796 000	* 644 000	* 744 000	* 1 388 000	* 758 000
Slovenia	221 830	324 830	437 208	402 033	451 012
Spain	1 546 315	2 489 305	2 042 075	1 478 362	1 060 445
Sweden	2 447 200	2 333 174	2 307 614	3 049 601	1 867 320
Switzerland	283 508	273 603	486 288	202 846	194 006
Turkey	1 631 232	586 393	73 162	1 183 150	908 010
United Kingdom	13 304 920	14 631 060	14 048 387	13 008 608	10 714 861

Note(s)

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

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

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

tonnes

Country	2005	2006	2007	2008	2009
Austria	2 516 839	2 622 855	3 961 223	3 447 013	2 924 359
Belgium-Luxembourg	20 831 220	22 303 782	23 810 336	27 170 472	23 932 936
Bulgaria	17 200	19 383	41 782	41 256	22 189
Croatia	4 603 358	3 867 559	4 583 241	4 618 579	1 871 236
Cyprus	5 921	11 605	15 497	28 990	11 564
Czech Republic	574 008	690 730	252 049	333 726	398 613
Denmark	2 804 325	3 151 321	3 077 714	3 346 209	2 932 586
Estonia	933 376	932 688	929 218	988 981	1 006 376
Finland	43 488	254 665	326 347	280 600	330 108
France	10 264 292	12 064 403	11 381 954	11 214 300	10 907 837
Germany	11 563 984	11 147 034	11 913 688	13 369 162	12 866 444
Greece	22 026	45 081	341 376	425 485	177 887
Hungary	446 504	211 927	455 416	806 281	446 187
Ireland, Republic of	1 444 893	1 687 279	1 729 337	1 368 008	781 470
Italy	4 331 596	4 655 740	4 967 745	4 139 144	3 654 570
Latvia	1 320 287	1 412 127	1 663 783	2 033 701	565 877
Lithuania	1 289 117	1 214 058	1 333 772	1 301 091	695 973
Malta	4 529	11 666	29 929	25 817	47 363
Netherlands	40 800 000	43 000 000	33 400 000	38 100 000	* 38 000 000
Norway	67 562	66 708	72 906	80 161	66 884
Poland	1 775 291	2 976 252	5 566 874	5 868 908	5 349 230
Portugal	698 717	488 917	731 709	194 088	175 576
Romania	197 911	332 190	352 576	351 123	205 133

Aggregates

Imports continued

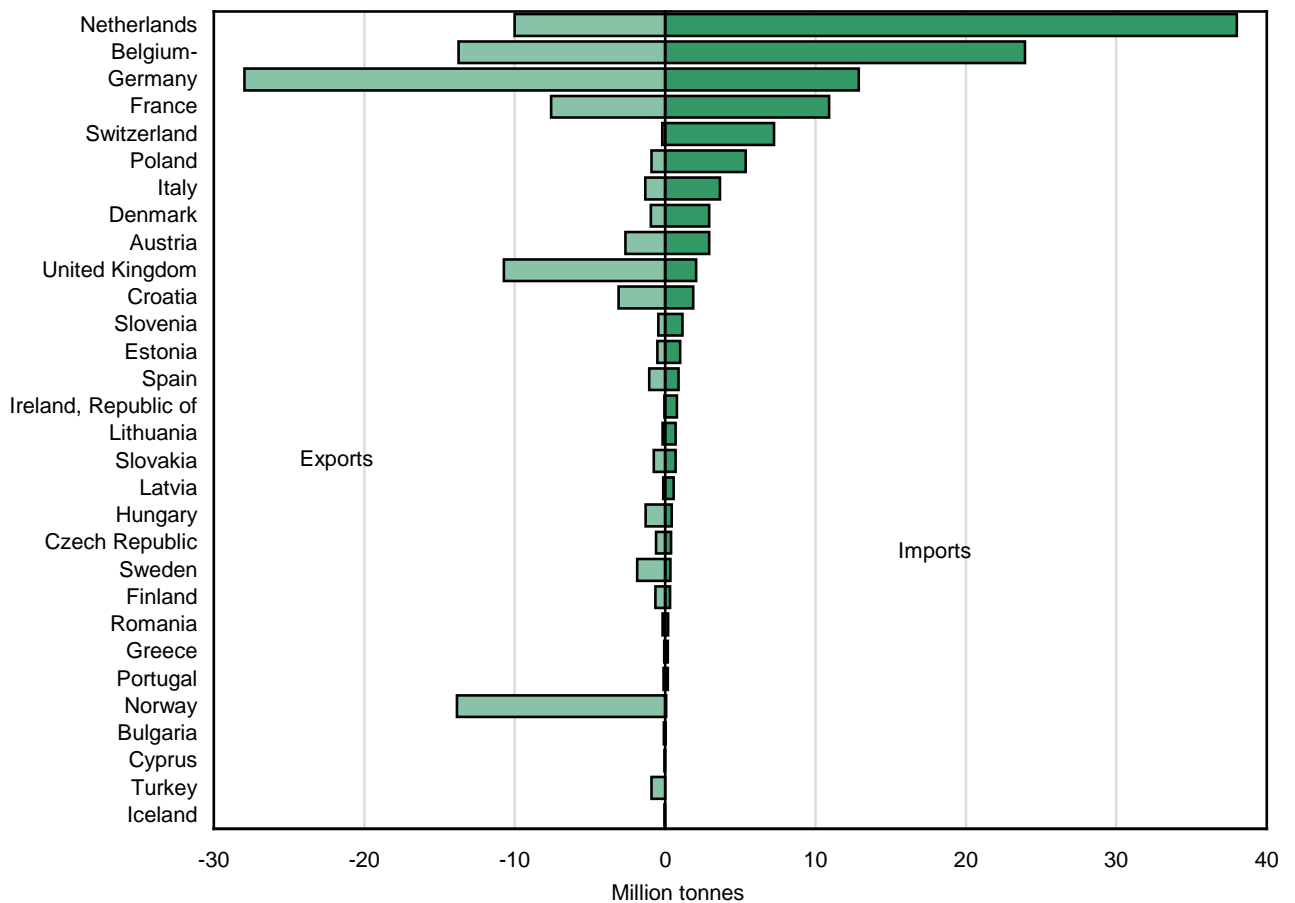
tonnes

Country	2005	2006	2007	2008	2009
Slovakia	828 096	665 844	633 400	755 496	692 609
Slovenia	364 091	863 881	3 113 823	1 424 240	1 165 083
Spain	1 305 835	762 652	1 396 928	1 035 555	889 156
Sweden	810 385	1 135 048	1 068 840	864 988	355 022
Switzerland	6 261 007	6 700 038	7 371 907	7 256 472	7 246 506
Turkey	7 978	4 661	3 843	4 590	3 636
United Kingdom	2 160 513	2 905 198	2 806 448	2 631 986	2 054 272

Note(s)

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

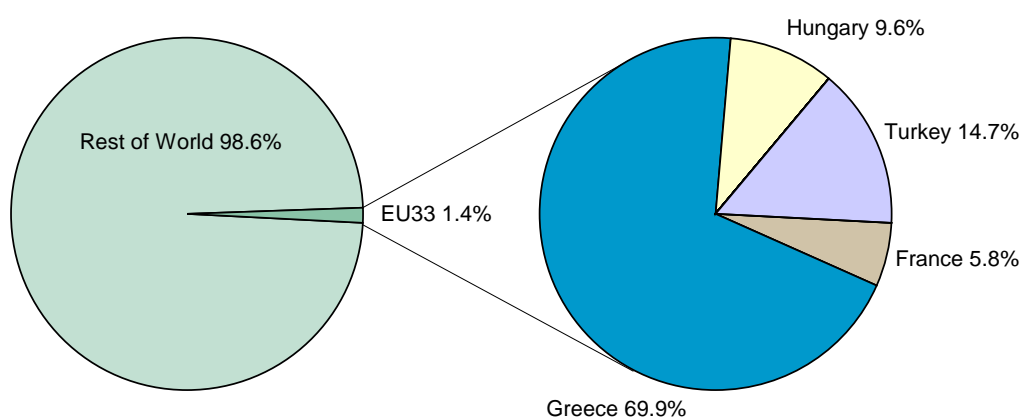
Aggregates - EU33 trade in 2009



Bauxite

- Bauxite is the only source of aluminium that is currently mined and is produced by deep chemical weathering of rocks in tropical to sub-tropical climates. There is limited EU33 production, leaving a very strong dependence on imports from countries outside the EU33.
- 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. Approximately ten per cent of bauxite is non-metallurgical grade and most of this is calcined for use in the abrasive or refractory markets.
- Australia continued to be the world's largest producer in 2009, with 33 per cent of the total world output. Greece was the largest producer within the EU33, with 69.9 per cent of EU33 production (although this is still less than one per cent of the world total).

EU33 Production of bauxite 2009



Production of bauxite

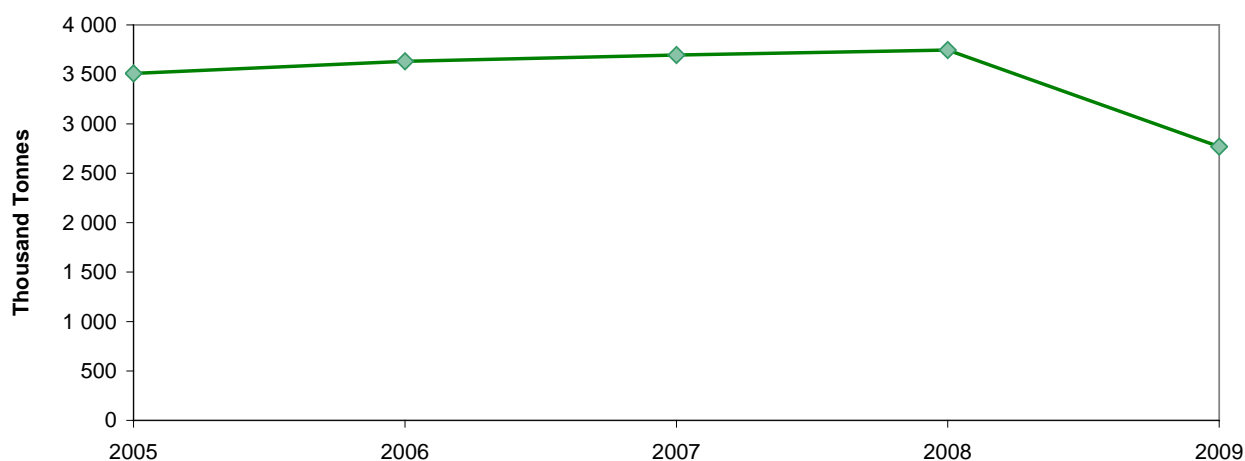
tonnes

Country	2005	2006	2007	2008	2009
France	175 000	160 000	* 160 000	* 160 000	* 160 000
Greece	2 441 443	2 162 900	2 125 900	2 174 000	1 935 000
Hungary	535 337	538 258	546 310	511 337	267 000
Turkey	356 480	771 227	863 404	* 900 000	406 700
EU33 Total	3 508 000	3 632 000	3 696 000	3 745 000	2 769 000

Note(s)

(1) This table includes production of refractory bauxite

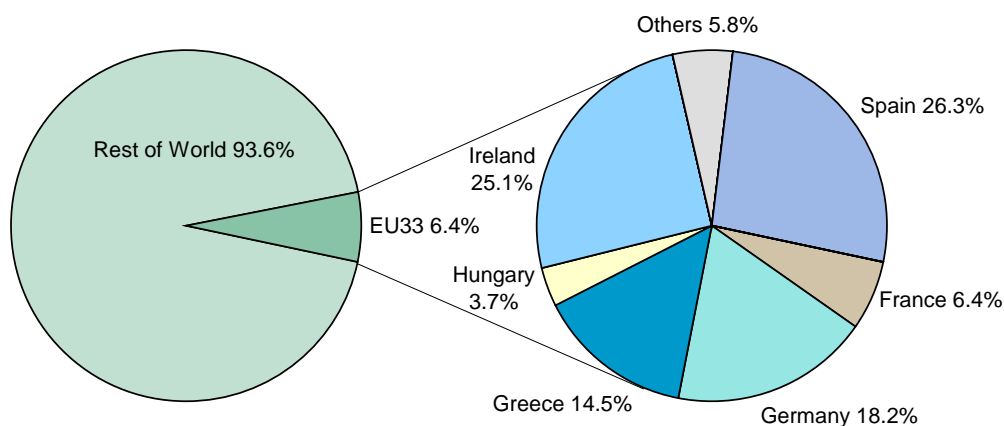
EU33 Production of bauxite 2005 - 09



Alumina

- Alumina (aluminium oxide) is an intermediate product in the manufacture of aluminium metal from raw bauxite ore. Alumina hydrate is a form of alumina containing combined water and is used in the paper, petroleum, paint and other industries.
- China was the world's largest producer of alumina in 2009, with an increase in output of four per cent compared to 2008, representing 31 per cent of the total world production. The EU33 produced 4.9 million tonnes in 2009, representing 6.4 per cent of world production.

EU33 Production of alumina 2009



Production of alumina

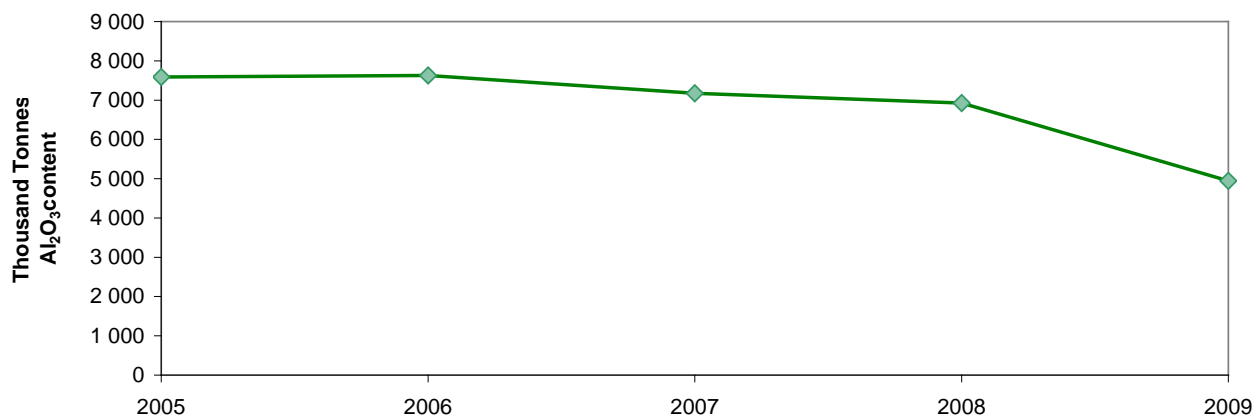
tonnes (Al₂O₃ content)

Country	2005	2006	2007	2008	2009
France	* 600 000	* 636 000	* 600 000	* 572 000	* 317 000
Germany	* 830 000	* 850 000	* 900 000	* 900 000	* 900 000
Greece	782 000	780 000	761 746	771 769	718 797
Hungary	* 305 000	* 301 000	* 301 000	* 299 000	* 185 000
Ireland, Republic of	* 1 800 000	1 800 000	1 800 000	1 890 000	1 240 000
Italy	1 070 000	1 090 000	1 327 000	1 045 000	92 000
Romania	689 329	622 083	22 830	344	44 000
Spain	* 1 400 000	* 1 400 000	* 1 300 000	* 1 300 000	* 1 300 000
Turkey	112 558	150 117	163 435	* 150 000	* 150 000
EU33 Total	7 589 000	7 629 000	7 176 000	6 928 000	4 947 000

Note(s)

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

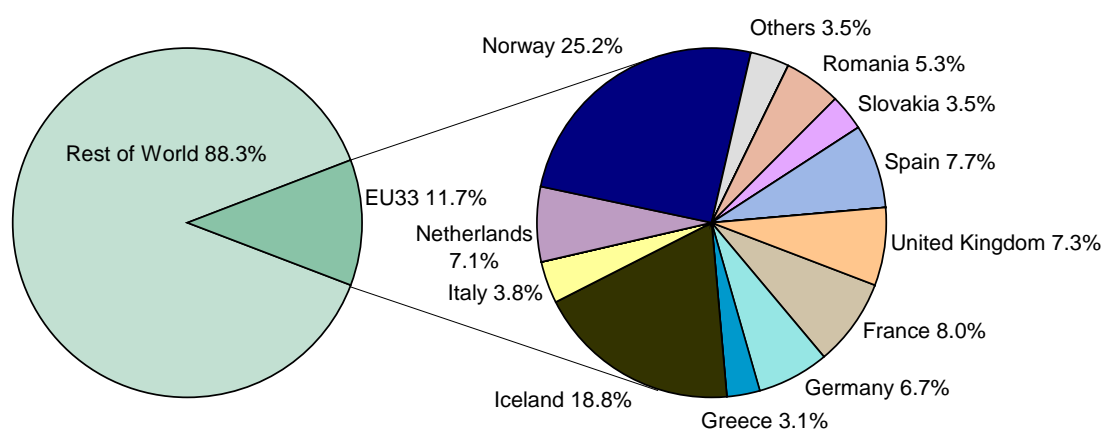
EU33 Production of alumina 2005 - 09



Aluminium metal

- Aluminium is a strong, lightweight metallic element that has many applications. The chief uses are in transportation, packaging and construction.
- China remained the world's largest producer in 2009, with 35 per cent of world production. The EU33 produced 4.3 million tonnes, representing 11.7 per cent of world production.

EU33 Production of primary aluminium 2009

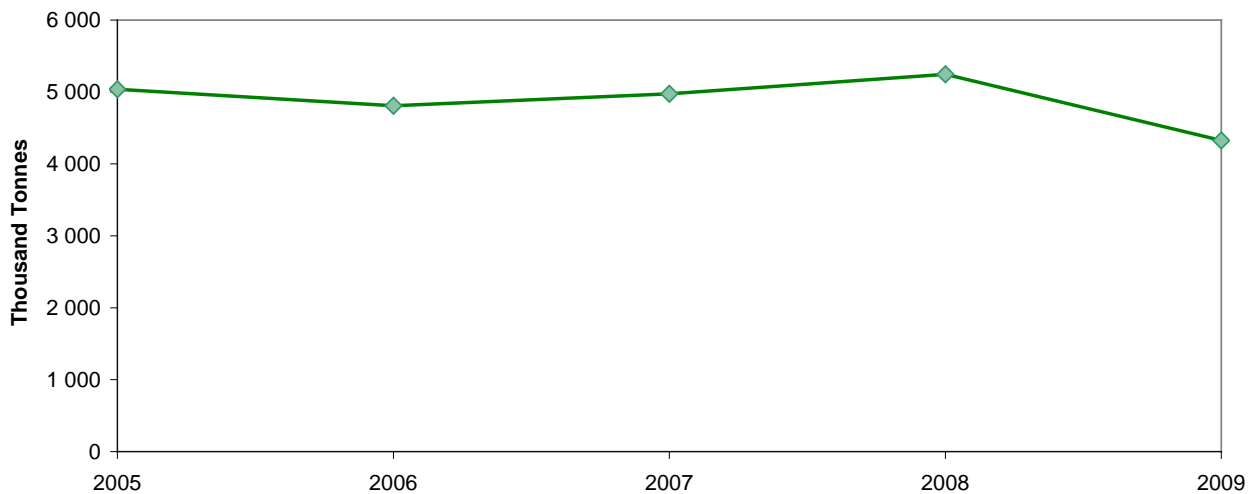


Production of primary aluminium

tonnes

Country	2005	2006	2007	2008	2009
France	440 000	442 879	430 159	389 000	345 000
Germany	647 900	515 539	551 000	605 880	291 750
Greece	165 300	164 500	167 937	162 339	134 737
Hungary	31 000	300	—	—	—
Iceland	273 318	328 424	446 297	761 204	813 880
Italy	192 900	194 200	179 500	186 400	165 800
Netherlands	333 820	285 317	296 900	317 000	306 000
Norway	1 391 000	1 383 000	1 362 000	1 368 000	1 090 000
Poland	53 582	55 939	53 379	46 730	16 851
Romania	243 607	262 056	283 449	288 156	228 630
Slovakia	159 203	158 289	160 461	162 995	149 604
Slovenia	138 500	118 100	111 016	83 300	35 148
Spain	394 200	367 400	405 100	405 800	334 600
Sweden	102 107	101 668	99 842	81 913	69 708
Switzerland	44 800	12 000	—	—	—
Turkey	59 000	60 000	63 400	61 100	30 000
United Kingdom	368 477	360 325	364 595	326 900	313 702
EU33 Total	5 039 000	4 810 000	4 975 000	5 247 000	4 325 000

EU33 Production of primary aluminium 2005 - 09



Exports of bauxite, alumina and aluminium

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Bauxite	980	765	1 225	1 202	546
Unwrought	6 616	7 630	8 294	4 120	2 332
Unwrought alloys	125 796	119 058	111 571	109 757	98 966
Scrap	67 434	80 200	91 960	90 825	118 028
Belgium-Luxembourg					
Bauxite	46 717	53 680	75 904	53 444	223 631
Alumina	10 714	18 151	13 629	4 858	5 686
Unwrought	267 811	210 559	164 800	160 684	121 708
Unwrought alloys	38 889	29 871	268 119	175 510	108 301
Scrap	149 914	186 613	208 272	190 301	44 530
Bulgaria					
Unwrought alloys	5 254	11 692	10 290	8 931	2 775
Scrap	21 902	29 245	23 577	18 478	20 577
Croatia					
Scrap	15 927	19 832	20 886	17 769	15 779
Cyprus					
Scrap	4 578	4 880	4 745	4 409	5 934
Czech Republic					
Unwrought (a)	48 885	45 876	54 457	53 682	59 913
Scrap	39 297	53 986	61 067	59 196	49 251
Denmark					
Alumina	3 579	3 470	5 471	5 300	4 002
Unwrought alloys	23 509	31 768	36 831	32 499	7 505
Scrap	70 828	62 734	50 164	56 727	70 649
Estonia					
Unwrought (a)	2 414	3 013	8 083	27 839	8 357
Scrap	10 686	8 263	10 379	19 895	6 958
Finland					
Unwrought alloys	14 107	11 411	12 924	14 239	8 939
Scrap	21 053	25 921	38 364	37 345	34 910
France					
Bauxite	5 195	46 042	26 661	12 295	9 296
Alumina	255 392	224 866	276 207	319 388	178 570
Alumina hydrate	139 694	168 250	146 531	130 881	100 293
Unwrought	77 097	65 943	45 503	46 364	91 682
Unwrought alloys	95 700	148 253	136 803	139 176	125 580
Scrap	314 243	345 107	380 708	344 436	345 372

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Germany					
Bauxite	28 087	30 772	36 361	33 636	16 591
Alumina	204 075	313 586	282 245	305 514	382 750
Alumina hydrate	527 900	717 433	672 561	634 635	461 601
Unwrought	60 757	72 132	61 090	75 386	67 356
Unwrought alloys	330 843	360 157	361 917	359 628	288 023
Scrap	583 987	675 261	770 042	702 739	753 218
Greece					
Bauxite	1 136 505	912 093	1 086 405	787 160	409 508
Alumina	439 374	457 726	715 003	412 385	412 888
Alumina hydrate	2 944	8 239	21 716	29 552	74 996
Unwrought	60 964	64 487	27 195	26 083	17 533
Unwrought alloys	15 017	18 804	67 732	64 998	57 668
Scrap	15 205	19 105	13 566	13 261	14 681
Hungary					
Alumina	142 470	170 030	178 984	168 347	89 857
Alumina hydrate	75 811	90 705	98 187	102 652	88 515
Unwrought (a)	22 635	28 884	27 580	10 981	26 176
Scrap	41 192	34 986	29 228	22 098	35 060
Iceland					
Unwrought	283 608	303 288	446 297	760 764	805 450
Scrap	1 312	4 603	3 872	12 483	4 467
Ireland, Republic of					
Bauxite	472	9 210	11 167	1 438	2 619
Alumina	1 459 036	1 534 845	1 652 967	1 709 302	895 034
Alumina hydrate	85 062	115 676	10 011	88 039	95 548
Unwrought alloys	3 542	4 637	5 425	3 711	2 455
Scrap	16 475	18 784	22 397	21 041	18 257
Italy					
Bauxite	121 029	12 082	49 989	26 718	4 585
Alumina	651 704	748 594	696 603	571 090	61 223
Alumina hydrate	26 652	26 668	34 521	35 538	1 243
Unwrought	8 742	20 315	18 971	18 249	30 019
Unwrought alloys	57 573	73 137	104 361	96 798	122 294
Scrap	35 904	50 024	42 052	56 214	82 055
Latvia					
Unwrought alloys	34 697	18 180	19 281	17 012	11 772
Scrap	910	1 767	2 416	4 203	4 419
Lithuania					
Unwrought alloys	3 922	3 410	3 453	3 994	2 614
Scrap	7 210	5 640	5 701	5 280	4 796
Macedonia					
Scrap	2 105	2 788	1 795	2 043	1 514
Malta					
Scrap	1 142	1 221	1 136	1 441	1 361
Netherlands					
Bauxite	93 993	107 660	41 170	129 186	* 59 000
Alumina	264 116	301 767	542 794	257 169	62 131
Alumina hydrate	48 643	45 480	151 641	85 713	65 279
Unwrought	304 993	370 471	490 373	332 871	218 141
Unwrought alloys	304 675	341 439	341 670	361 012	191 239
Scrap	265 755	334 426	317 877	264 142	200 650
Norway					
Unwrought	147 295	126 841	113 285	105 729	106 593
Unwrought alloys	1 365 929	1 412 569	1 496 556	1 484 854	1 249 830
Scrap	38 218	42 804	41 296	41 476	80 729
Poland					
Bauxite	1 300	1 693	596	536	833
Unwrought (a)	81 962	80 266	78 187	82 242	66 065
Scrap	82 875	107 939	113 649	123 468	102 757
Portugal					
Unwrought alloys	140 505	152 591	130 636	127 150	90 869
Scrap	41 797	38 026	41 603	40 020	32 481

Aluminium and Bauxite

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Romania					
Bauxite	8 967	129	47	526	161
Alumina	261 862	137 753	5 191	0	99
Unwrought	31 543	12 672	23 193	61 638	50 496
Unwrought alloys	7 711	10 110	9 080	6 690	5 898
Scrap	4 829	11 132	14 332	16 021	20 775
Slovakia					
Unwrought	15 302	66 893	61 319	44 845	77 013
Unwrought alloys	159 134	93 141	118 286	129 771	110 484
Scrap	8 042	9 876	10 421	10 109	9 441
Slovenia					
Bauxite	...	2 650	8 013	450	2 537
Alumina	205 584	241 631	243 062	258 238	242 215
Unwrought alloys	123 555	133 005	123 041	88 038	61 800
Scrap	21 103	27 584	30 132	26 863	23 382
Spain					
Bauxite	3 821	3 647	6 057	5 623	4 951
Alumina	561 125	511 992	539 739	671 009	612 933
Alumina hydrate	264 829	258 854	199 679	236 855	163 303
Unwrought	3 002	8 245	15 999	39 359	19 816
Unwrought alloys	111 992	128 262	125 008	123 577	230 539
Scrap	36 688	41 923	34 520	109 493	46 307
Sweden					
Alumina	14 133	14 481	14 278	13 919	14 464
Unwrought	9 390	910	735	6 307	2 143
Unwrought alloys	88 311	112 575	89 591	89 190	145 554
Scrap	69 166	67 879	107 946	106 581	89 940
Switzerland					
Alumina	262	1 242	281	5 767	1 240
Unwrought (a)	14 499	21 257	22 645	9 938	14 444
Scrap	122 729	140 657	139 599	125 769	116 520
Turkey					
Bauxite	1 531	89 764	254 689	262 708	103 317
Alumina	45 914	73 707	142 557	118 915	77 727
Unwrought	21 034	38 690	47 574	50 056	26 337
Unwrought alloys	6 138	9 072	13 012	10 827	9 368
Scrap	12 558	14 275	13 415	16 218	14 483
United Kingdom					
Bauxite	4 325	28 636	4 276	6 121	3 873
Alumina	4 336	9 979	9 016	9 517	16 810
Alumina hydrate (b)	* 20 600	* 1 900	* 5 300	* 5 300	* 4 400
Unwrought	48 684	17 530	30 631	20 690	17 688
Unwrought alloys	329 691	331 598	269 523	265 018	305 849
Scrap	474 587	385 211	906 831	872 988	422 574

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	2005	2006	2007	2008	2009
Austria					
Bauxite	36 123	25 291	16 717	21 727	2 370
Alumina	41 269	45 777	49 728	55 639	27 193
Alumina hydrate	10 125	12 821	16 056	20 205	13 219
Unwrought	82 597	113 047	140 286	154 792	103 145
Unwrought alloys	214 611	235 053	250 209	218 902	175 583
Scrap	150 412	157 256	161 995	170 315	168 055
Belgium-Luxembourg					
Bauxite	87 376	59 874	85 963	88 894	40 840
Alumina	10 879	28 030	28 985	14 918	8 104
Alumina hydrate	37 831	45 723	46 815	36 100	30 199
Unwrought	497 013	451 309	485 128	372 140	356 107
Unwrought alloys	265 937	286 345	329 777	245 870	130 970
Scrap	158 799	197 942	380 317	320 354	252 712
Bulgaria					
Alumina	1 401	2 039	2 368	1 370	1 859
Unwrought	25 562	46 154	39 850	42 738	39 759
Unwrought alloys	15 185	20 490	19 617	18 557	16 050
Scrap	1 449	2 179	3 554	4 028	3 014
Croatia					
Bauxite	112 007	80 441	115 367	107 237	72 103
Alumina	1 672	1 405	2 431	2 440	1 021
Unwrought	56 509	53 021	54 067	57 828	37 828
Unwrought alloys	14 915	18 893	22 039	20 786	28 251
Cyprus					
Unwrought alloys	9 898	12 481	13 868	13 408	8 721
Czech Republic					
Bauxite	24 315	24 829	26 865	17 698	9 857
Alumina	28 458	24 078	30 523	28 245	5 995
Alumina hydrate	10 898	9 782	7 834	6 916	6 672
Unwrought	69 977	74 392	82 910	68 362	62 972
Unwrought alloys	96 702	104 238	119 773	124 643	108 231
Scrap	34 226	48 937	63 508	58 424	50 379
Denmark					
Bauxite	9 148	9 025	6 572	7 317	8 108
Alumina	21 979	28 709	25 643	27 582	21 968
Unwrought (a)	70 617	79 573	86 389	85 420	61 259
Scrap	63 678	64 803	66 038	70 726	5 321
Estonia					
Unwrought (a)	1 686	7 021	3 035	26 545	5 956
Scrap	453	1 338	808	485	535
Finland					
Bauxite	3 661	6 366	4 909	10 461	1 584
Alumina	2 659	2 327	3 296	2 350	1 733
Alumina hydrate	28 300	31 024	37 163	22 243	20 614
Unwrought	4 057	1 145	1 213	1 332	1 204
Unwrought alloys	40 510	39 755	49 299	41 635	29 303
Scrap	15 537	14 906	19 051	21 978	10 998
France					
Bauxite	1 799 671	1 664 642	2 001 899	1 788 358	1 024 569
Alumina	655 246	667 146	710 029	722 371	849 798
Alumina hydrate	41 682	45 085	46 584	51 289	46 113
Unwrought	150 798	198 042	147 693	113 771	87 130
Unwrought alloys	366 369	394 929	449 505	396 382	311 287
Scrap	135 611	208 142	191 897	197 876	216 872
Germany					
Bauxite	2 435 244	2 143 631	3 141 693	2 995 241	2 069 109
Alumina	999 798	912 564	790 515	1 017 746	518 456
Alumina hydrate	231 124	219 035	266 042	241 736	168 216
Unwrought	648 764	754 311	786 506	693 075	495 511
Unwrought alloys	1 121 715	1 318 713	1 444 289	1 370 179	1 157 271
Scrap	438 066	539 367	613 084	543 839	362 582

Aluminium and Bauxite

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Greece					
Bauxite	206 870	268 899	376 304	226 374	351 677
Alumina	1 049	71 073	283 255	38 828	963
Unwrought	121 266	125 541	125 327	129 407	110 311
Unwrought alloys	68 958	62 828	73 561	63 670	32 252
Scrap	18 083	20 030	50 470	28 960	17 339
Hungary					
Bauxite	279 660	243 873	319 681	297 832	178 031
Alumina	15 638	2 558	3 350	9 505	12 598
Unwrought	109 382	109 506	132 695	122 319	100 897
Unwrought alloys	54 362	72 573	149 299	107 123	79 437
Scrap	17 164	49 076	37 204	56 347	30 212
Iceland					
Alumina	434 801	663 691	814 258	1 620 531	1 557 309
Unwrought (a)	1 095	291	293	439	1 461
Ireland, Republic of					
Bauxite	3 606 983	3 368 967	4 144 231	3 009 615	2 786 723
Alumina	4 252	7 470	9 268	9 579	4 711
Unwrought (a)	4 092	2 756	1 261	309	287
Italy					
Bauxite	2 602 224	2 618 296	2 374 609	2 417 499	36 975
Alumina	147 537	137 469	148 384	144 473	88 864
Alumina hydrate	155 718	156 231	166 453	143 217	142 005
Unwrought	426 721	481 919	534 385	445 882	284 779
Unwrought alloys	463 411	504 142	545 052	436 207	310 560
Scrap	326 901	366 623	432 780	377 441	268 836
Latvia					
Unwrought (a)	1 810	577	154	21	592
Scrap	16 970	6 505	6 837	7 677	5 974
Lithuania					
Bauxite	...	...	1	...	6 922
Alumina	13 079	11 176	13 304	10 282	1 815
Scrap	1 841	1 964	3 380	1 887	888
Macedonia					
Alumina	82	412	1 476	1 225	425
Unwrought (a)	1 610	2 941	3 930	3 446	2 164
Scrap	492	496	663	485	1 341
Netherlands					
Bauxite	169 012	118 203	108 088	182 711	68 038
Alumina	654 487	440 195	706 255	689 724	153 891
Alumina hydrate	223 823	205 902	190 351	178 940	52 798
Unwrought	370 979	650 035	713 441	248 386	134 950
Unwrought alloys	287 504	321 582	358 930	479 786	284 410
Scrap	189 722	197 160	204 117	210 203	88 053
Norway					
Bauxite	16 601	11 384	3 446	10 232	15 444
Alumina	2 723 588	2 730 064	2 535 547	2 753 105	2 069 424
Alumina hydrate	45 957	43 721	48 560	50 401	45 252
Unwrought	328 722	352 293	435 126	381 638	240 409
Unwrought alloys	42 056	34 783	73 058	58 995	95 120
Scrap	20 806	26 326	32 024	37 386	26 598
Poland					
Bauxite	59 758	61 638	71 598	59 907	49 033
Alumina	102 845	114 800	120 768	126 143	27 626
Alumina hydrate	29 538	27 358	27 634	25 334	23 083
Unwrought	62 403	76 996	105 281	71 563	67 561
Unwrought alloys	140 792	167 914	192 930	195 072	144 983
Scrap	39 907	52 498	59 623	67 176	67 408
Portugal					
Alumina	6 250	7 760	9 325	9 750	13 742
Unwrought	13 941	16 292	16 859	17 732	15 200
Unwrought alloys	224 631	237 617	214 990	214 614	149 759
Scrap	2 651	1 487	3 994	2 409	15 819

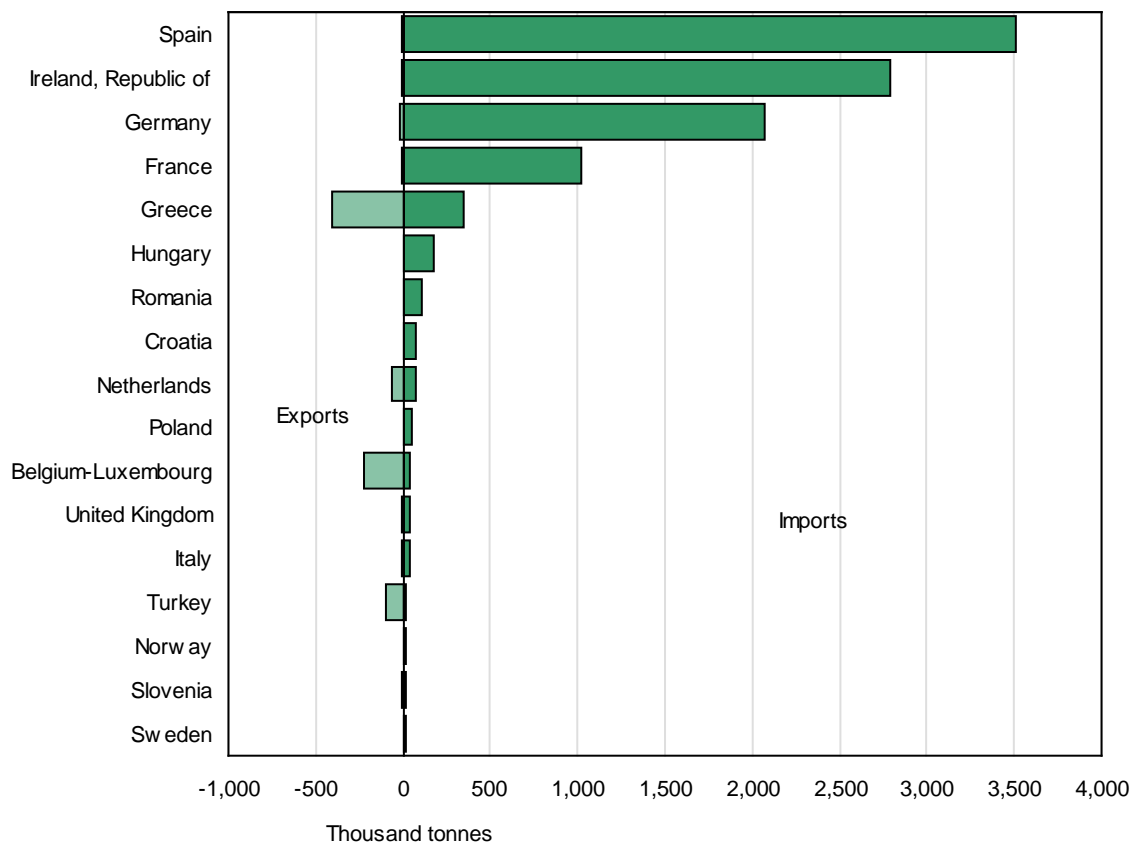
Imports continued						tonnes
Country	2005	2006	2007	2008	2009	
Romania						
Bauxite	1 655 045	1 597 023	75 934	45 527	104 404	
Alumina	27 498	28 342	482 375	487 304	353 846	
Alumina hydrate	1 852	15 253	16 927	17 822	7 996	
Unwrought (a)	2 849	4 151	10 191	16 416	17 383	
Scrap	565	436	3 833	598	3 838	
Slovakia						
Bauxite	3 669	5 886	7 524	5 778	5 443	
Alumina	307 756	314 576	311 914	311 891	288 753	
Unwrought (a)	31 683	31 521	52 718	41 681	27 853	
Scrap	12 567	8 550	8 748	4 638	1 760	
Slovenia						
Bauxite	47 935	51 064	63 229	40 006	13 966	
Alumina	450 273	480 454	466 163	438 579	302 520	
Alumina hydrate	23 581	24 102	28 628	27 121	20 629	
Unwrought	73 137	48 337	65 589	67 405	62 162	
Unwrought alloys	46 782	60 484	58 215	50 389	34 530	
Scrap	47 381	50 865	52 338	51 319	37 677	
Spain						
Bauxite	3 224 101	3 007 043	3 547 201	3 618 306	3 509 294	
Alumina	58 627	56 961	53 579	50 417	22 239	
Alumina hydrate	43 246	49 725	49 451	41 614	30 522	
Unwrought	110 257	95 436	122 303	82 512	95 461	
Unwrought alloys	223 627	303 607	328 314	281 270	162 026	
Scrap	99 459	103 839	123 074	110 745	63 517	
Sweden						
Bauxite	3 171	2 846	30 099	18 761	10 755	
Alumina	191 504	201 496	43 101	161 638	109 806	
Alumina hydrate	62 549	56 535	94 218	95 834	81 026	
Unwrought	17 916	7 959	46 431	47 534	39 248	
Unwrought alloys	117 202	135 270	159 628	144 343	124 277	
Scrap	24 309	32 198	36 838	40 125	30 093	
Switzerland						
Bauxite	9 929	5 901	5 850	12 439	8 360	
Alumina	88 358	21 431	10 745	11 036	9 074	
Alumina hydrate	16 823	18 333	17 875	17 235	15 269	
Unwrought	75 987	111 780	136 214	127 018	108 096	
Unwrought alloys	56 059	79 666	78 916	62 962	50 341	
Scrap	27 617	26 711	32 716	31 728	23 195	
Turkey						
Bauxite	46 016	52 627	53 202	39 256	17 350	
Alumina	19 665	23 179	12 713	39 507	26 123	
Unwrought	236 076	245 876	296 098	327 525	358 748	
Unwrought alloys	146 853	168 498	193 702	270 871	201 124	
Scrap	16 723	7 061	5 634	16 868	14 215	
United Kingdom						
Bauxite	103 522	86 882	48 741	57 971	37 461	
Alumina	755 443	823 115	787 218	705 033	352 250	
Alumina hydrate	130 321	101 126	112 287	110 503	98 516	
Unwrought	114 189	169 259	201 262	160 797	304 621	
Unwrought alloys	87 063	245 496	93 145	93 210	43 601	
Scrap	116 285	137 626	158 827	145 819	117 651	

Note(s)

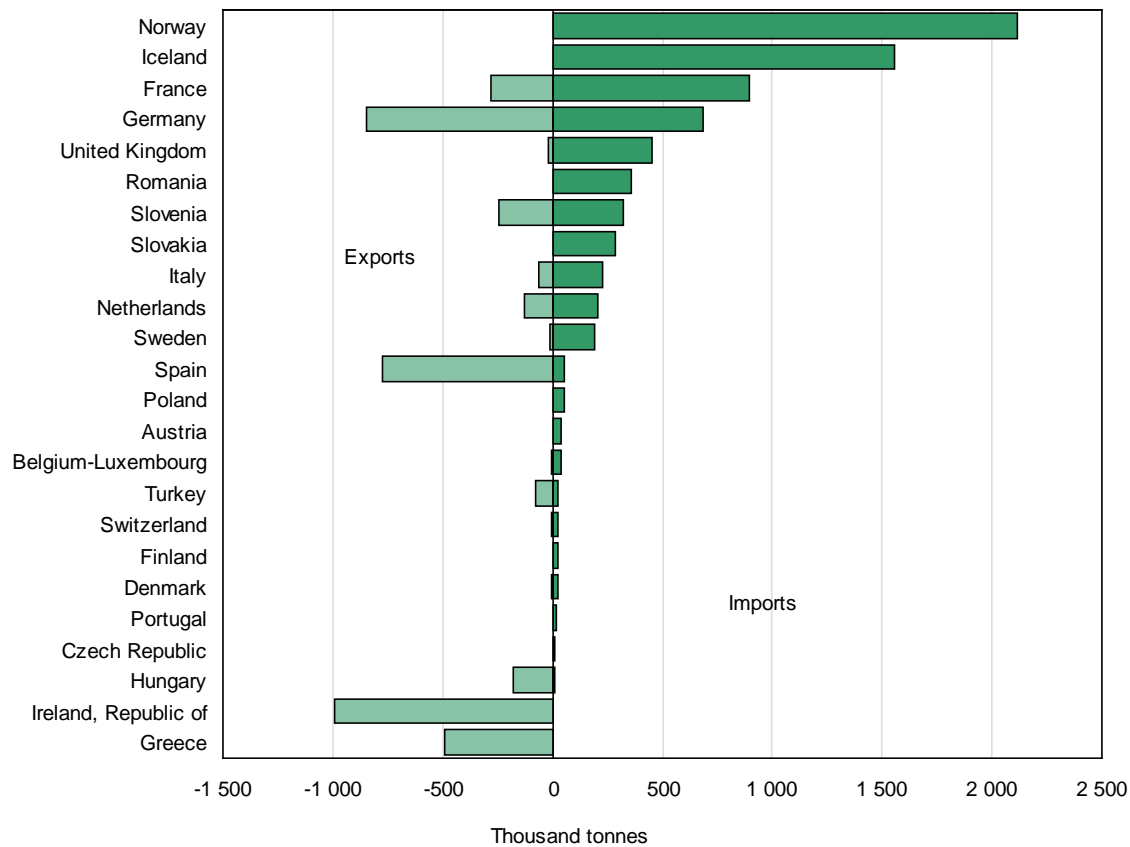
- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
(2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars, etc.
(3) Metal traded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

(a) Including alloys

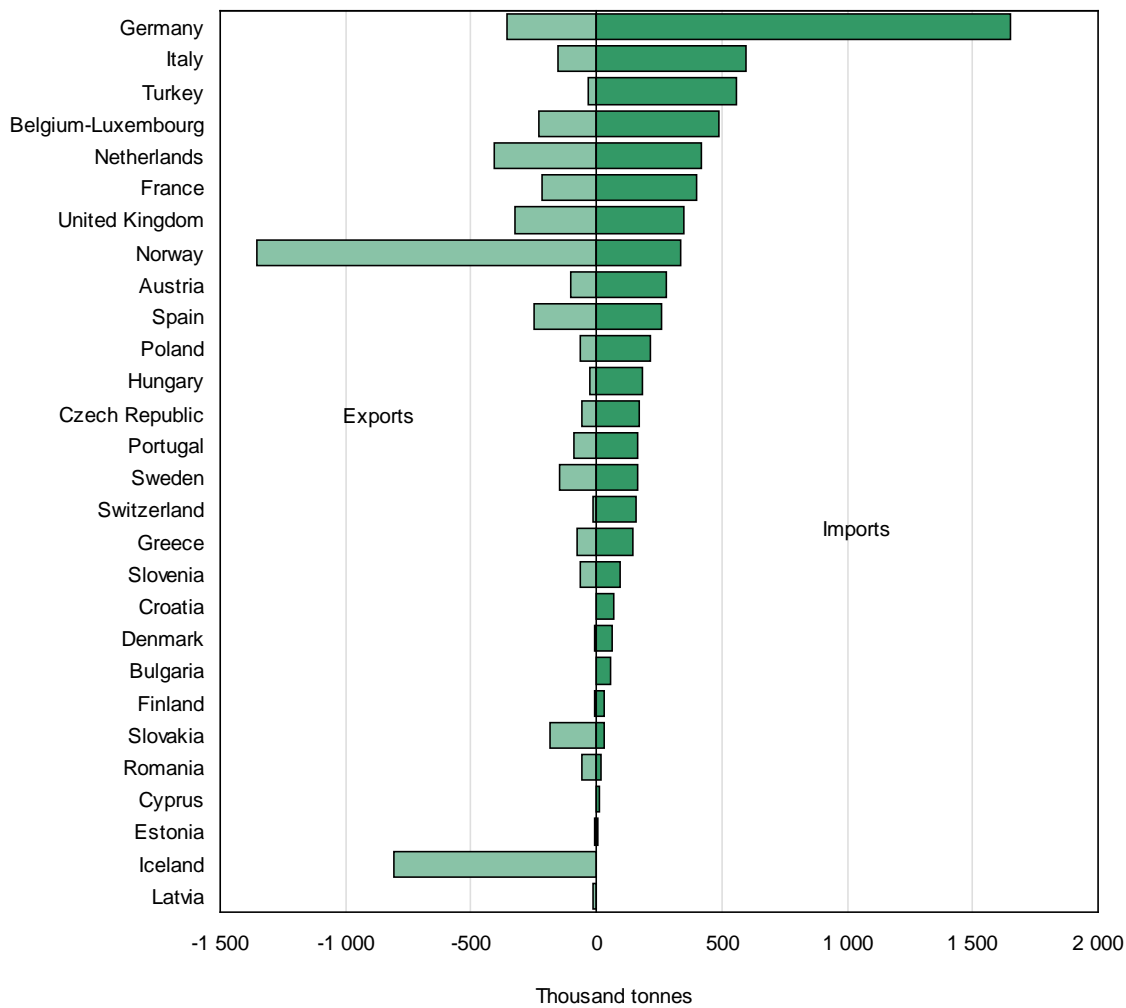
Bauxite - EU33 trade in 2009



Alumina and alumina hydrate - EU33 trade in 2009



Aluminium metal - EU33 trade in 2009



Antimony

- Antimony is a toxic metallic element with several specialised uses. It is frequently alloyed with lead, where it greatly increases hardness and strength. Antimony is also used in semi-conductors and its compounds form excellent flame-retardants in cable sheaths.
- China was by far the largest mine producer of antimony in 2009, with 93 per cent of world production. Antimony is also produced as a by-product of lead refining in many countries. Less than one per cent of world production of antimony is produced in the EU33.

Mine production of antimony

tonnes (metal content)

Country	2005	2006	2007	2008	2009
Turkey	* 1 200	* 1 100	* 1 200	* 1 300	* 1 300

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	2005	2006	2007	2008	2009
Austria					
Metal	1 089	3	1	0	—
Belgium-Luxembourg					
Ores & concentrates	77	360	301	228	530
Metal	693	1 580	974	494	533
Oxide	11 526	12 661	11 643	9 636	8 811
Czech Republic					
Oxide	145	108	139	133	89
France					
Metal	186	53	19	44	34
Oxide	5 177	4 964	6 109	6 261	6 788
Germany					
Metal	15	30	141	33	101
Oxide	724	892	1 130	932	448
Greece					
Metal	141	160	143	81	—
Italy					
Ores & concentrates	274	250	355	386	566
Oxide	94	254	237	569	391
Netherlands					
Metal	570	886	308	185	171
Oxide	664	780	496	346	285
Poland					
Metal	18	36	22	25	65
Portugal					
Metal	1	646	267	60	119
Spain					
Metal	13	21	17	143	62
Oxide	859	2 031	246	1 023	894
Sweden					
Metal	5	2	1	15	489
Turkey					
Ores & concentrates	920	679	819	1 000	1 408
Metal	63	5	28	0	8
United Kingdom					
Metal	54	27	21	35	75
Oxide	621	397	379	558	407

Imports of antimony

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal	74	51	104	63	64
Oxide	263	271	277	245	192
Belgium-Luxembourg					
Metal	10 722	11 543	11 915	8 851	7 523
Oxide	1 735	2 524	2 342	920	750
Bulgaria					
Metal	...	34	100	35	40
Czech Republic					
Metal	72	82	64	131	55
Oxide	588	503	604	521	209
Finland					
Oxide	199	256	281	160	101
France					
Metal	7 766	8 919	8 568	9 078	7 682
Oxide	2 243	2 092	3 315	1 923	1 277
Germany					
Metal	148	421	612	700	552
Oxide	6 560	8 305	8 527	8 672	5 072
Greece					
Ores & concentrates	95	131	83	27	6
Metal	24	0	21	63	85
Hungary					
Oxide	180	139	192	144	173
Italy					
Ores & concentrates	1 005	829	851	1 171	935
Metal	164	279	399	300	198
Oxide	5 543	6 061	5 950	6 168	4 602
Lithuania					
Oxide	6	36	61	110	117
Netherlands					
Metal	705	651	699	234	150
Oxide	41 562	35 127	3 783	51 439	2 257
Norway					
Metal	71	11	70	44	1
Oxide	305	507	337	371	200
Poland					
Metal	28	158	142	52	71
Oxide	1 231	1 338	1 315	1 086	1 034
Portugal					
Oxide	137	166	172	161	146
Romania					
Metal	55	43	68	30	36
Oxide	73	97	190	153	87
Slovakia					
Oxide	118	82	104	48	35
Slovenia					
Metal	137	98	110	71	50
Spain					
Ores & concentrates	108	175	164	154	55
Metal	1 881	1 596	1 676	1 987	1 478
Oxide	808	984	1 146	899	493
Sweden					
Metal	199	337	546	166	58
Oxide	377	296	319	293	203
Switzerland					
Ores & concentrates	1 722	201	38	—	25
Oxide	1 026	1 141	1 461	1 328	793
Turkey					
Metal	40	181	308	346	369
Oxide	377	381	501	522	588
United Kingdom					
Metal	60	81	110	98	88
Oxide	2 048	2 291	1 917	2 454	1 548

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 2009 and is estimated to produce more than half of world output.

Production of white arsenic

tonnes

Country	2005	2006	2007	2008	2009
Belgium	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	* 15	* 15	* 15	* 15	* 15

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	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Metallic arsenic	101	2 542	117	77	42
France					
Metallic arsenic	8	15	3	5	9
Germany					
Metallic arsenic	20	20	32	41	31
Italy					
Metallic arsenic	16	2	—	—	—
Netherlands					
Metallic arsenic	50	33	59	67	* 30

Note(s)

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

Imports of arsenic

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Metallic arsenic	164	105	466	65	17
Bulgaria					
Metallic arsenic	5	10	30	12	11
Czech Republic					
Metallic arsenic	9	11	10	26	—
France					
Metallic arsenic	21	20	19	8	4
Greece					
Metallic arsenic	35	16	9	9	11
Ireland, Republic of					
Metallic arsenic	158	125	137	95	...
Italy					
Metallic arsenic	54	52	64	43	45
Netherlands					
Metallic arsenic	85	20	19	8	* 45
Poland					
Metallic arsenic	39	21	24	42	20
Slovenia					
Metallic arsenic	5	12	11	—	3

Imports continued

Country	2005	2006	2007	2008	2009
Spain					
Metallic arsenic	112	143	116	192	48
Sweden					
Metallic arsenic	6	...	12	6	6
Turkey					
Metallic arsenic	98	77	63	71	74
United Kingdom					
Metallic arsenic	3	49	70	52	60

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, together with all production in the EU33. The largest producer in the world is Russia with 48 per cent of world production followed by China with 18 per cent of world production.

Production of asbestos

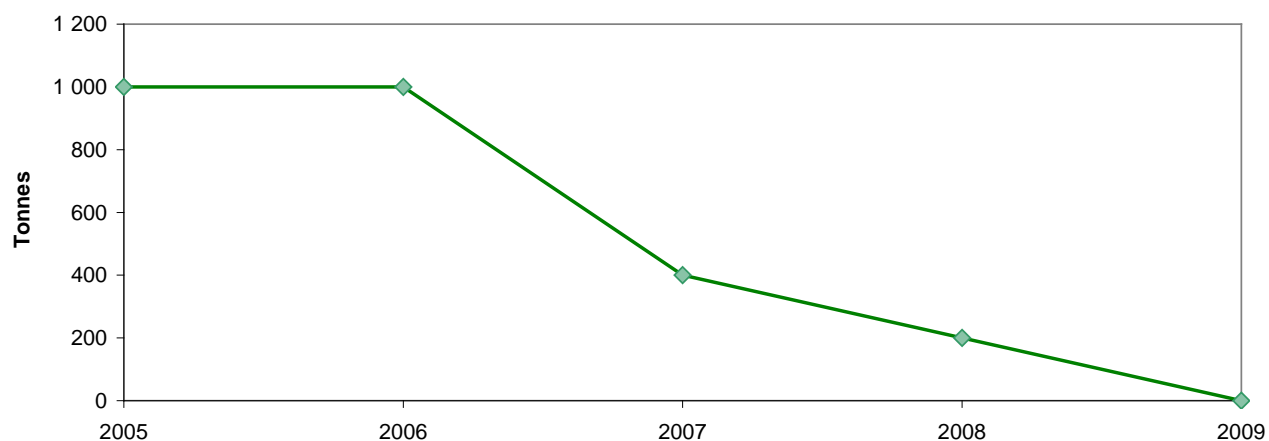
tonnes

Country	2005	2006	2007	2008	2009
Slovakia	1 000	1 000	400	200	—

Note(s)

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

EU33 Production of asbestos 2005 - 09



Exports of unmanufactured asbestos

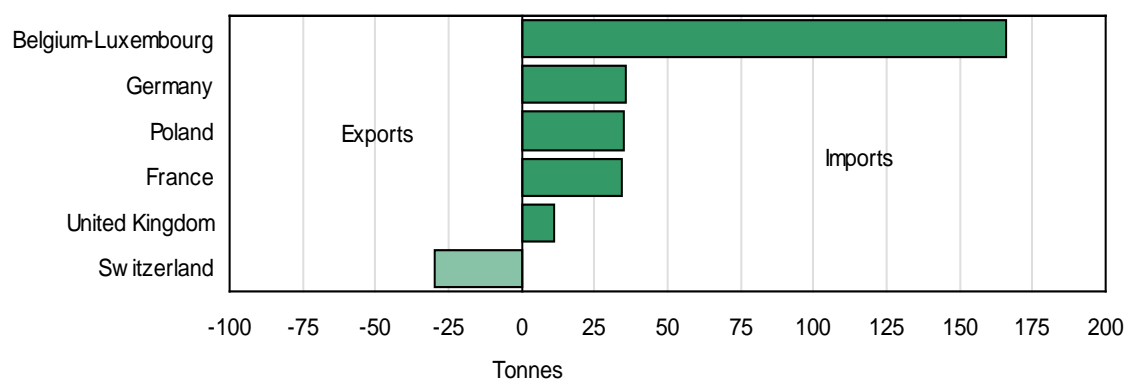
tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg	...	164	17	—	—
Italy	20	5	29	—	...
Malta	65	16	...	...	...
Switzerland	0	0	290	120	30
Turkey	—	3	990	685	—

Imports of unmanufactured asbestos

tonnes

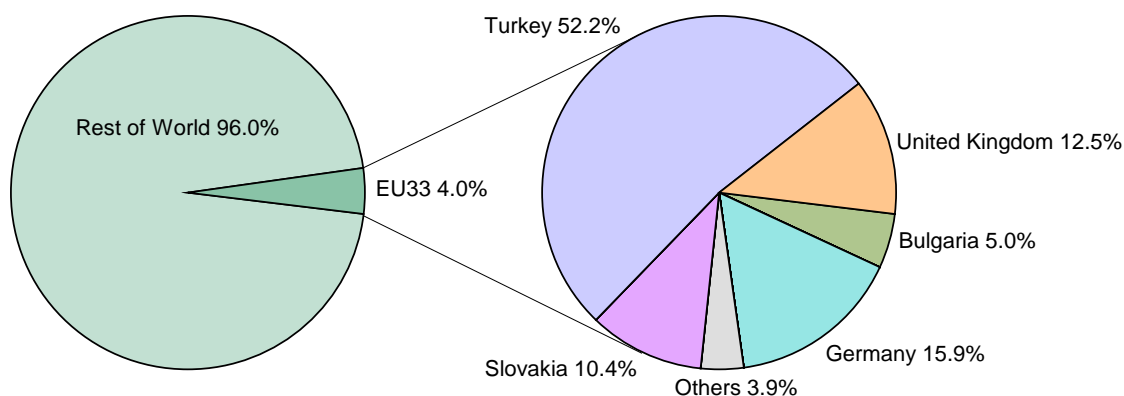
Country	2005	2006	2007	2008	2009
Belgium-Luxembourg	13	200	200	6	166
Croatia	2 429	...	...	...	...
France	5	52	169	120	34
Germany	98	61	54	54	36
Ireland, Republic of	2 794	2 700	23	3	—
Poland	6	52	...	...	35
Portugal	356	...	...	0	...
Romania	9 077	3 272	0	1	...
Spain	23	20	50	21	—
Turkey	12 576	6 124	2 518	585	—
United Kingdom	...	0	187	...	11

Asbestos - EU33 trade in 2009

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. About 88 per cent of barytes production is used in the manufacture and utilisation of drilling fluids in oil and gas exploration.
- The EU33 countries contributed four per cent of world barytes production in 2009. The largest producer amongst the EU33 is Turkey, which produced more than 52 per cent of the EU33 production. The largest world producer is China, which accounted for 41 per cent of world production in 2009, despite output falling by 42 per cent.

EU33 Production of barytes 2009



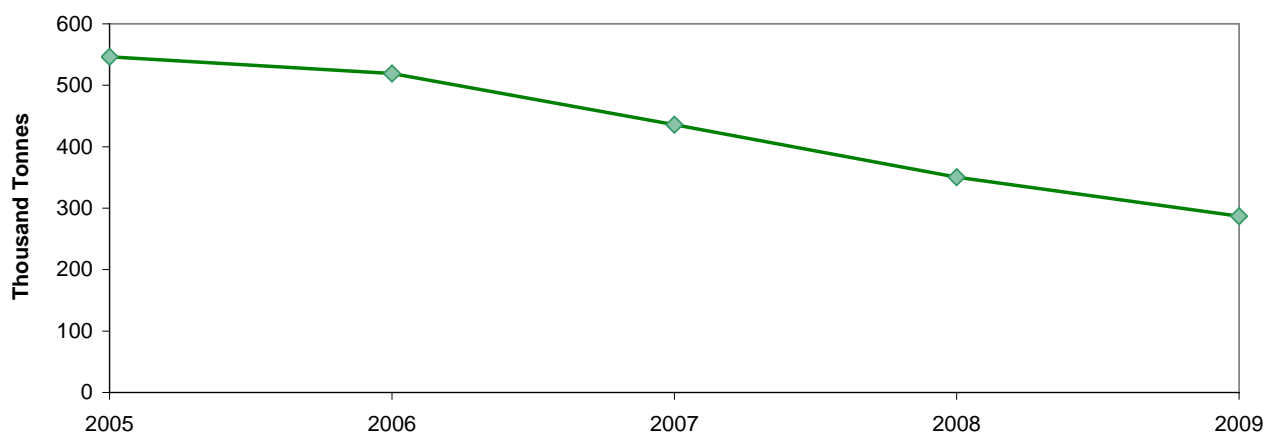
Production of barytes

Country	2005	2006	2007	2008	2009
Bulgaria	76 600	74 500	50 900	40 100	14 300
France	* 81 000	* 40 000	—	—	—
Germany	88 591	85 524	88 265	78 941	45 606
Italy	7 312	* 7 000	* 7 000	* 7 000	* 7 000
Poland	2 357	2 034	2 000	308	300
Portugal	21	24	25	171	1 078
Slovakia	26 589	57 000	58 000	20 000	30 000
Spain	42 792	45 001	26 770	11 100	2 814
Turkey	157 200	160 000	150 000	150 000	150 000
United Kingdom	64 000	48 000	53 000	43 000	36 000
EU33 Total	546 000	519 000	436 000	351 000	287 000

Note(s)

(1) This table may include small quantities of witherite

EU33 Production of barytes 2005 - 09



Exports of barytes

tonnes

Country	2005	2006	2007	2008	2009
Austria	1 407	5 830	3 023	2 440	1 276
Belgium-Luxembourg	4 016	19 004	506	1 381	2 638
Bulgaria	76 644	74 523	50 922	46 907	14 326
France (a)	* 57 700	* 36 300	* 37 100	* 10 000	* 11 500
Germany	32 375	33 947	43 104	38 111	45 360
Italy	505	1 000	2 239	1 238	2 890
Netherlands	52 444	37 392	68 798	58 740	121 567
Norway	1 482	14 199	13 425	5 608	4 069
Slovakia	7 876	13 843	9 174	685	6 309
Spain	27 389	27 743	31 693	33 676	29 776
Turkey	134 482	159 128	115 039	123 485	121 744
United Kingdom	16 334	4 250	9 242	9 976	13 095

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	2005	2006	2007	2008	2009
Austria	5 863	12 550	4 898	6 234	2 733
Belgium-Luxembourg	26 832	32 196	39 041	33 685	20 867
Croatia	715	893	98	1 525	889
Czech Republic	8 552	7 195	6 358	7 388	4 641
Denmark	28 788	58 303	38 096	22 324	27 656
Finland	3 931	4 498	5 018	4 735	2 573
France	31 965	24 471	40 760	34 166	26 227
Germany	231 471	272 526	320 702	278 335	129 220
Greece	996	1 065	1 255	1 348	2 133
Hungary	...	...	1 444	492	4 529
Ireland, Republic of	894	293	586	229	169
Italy	84 178	84 398	89 745	102 684	51 615
Netherlands	116 512	88 489	148 808	122 039	43 928
Norway	109 802	125 134	127 181	121 259	146 535
Poland	7 744	9 138	10 895	14 334	8 349
Portugal	5 382	3 099	1 934	3 806	3 744
Romania	5 747	7 604	14 040	25 475	8 351
Slovakia	814	872	147	142	99

Barytes

Imports continued

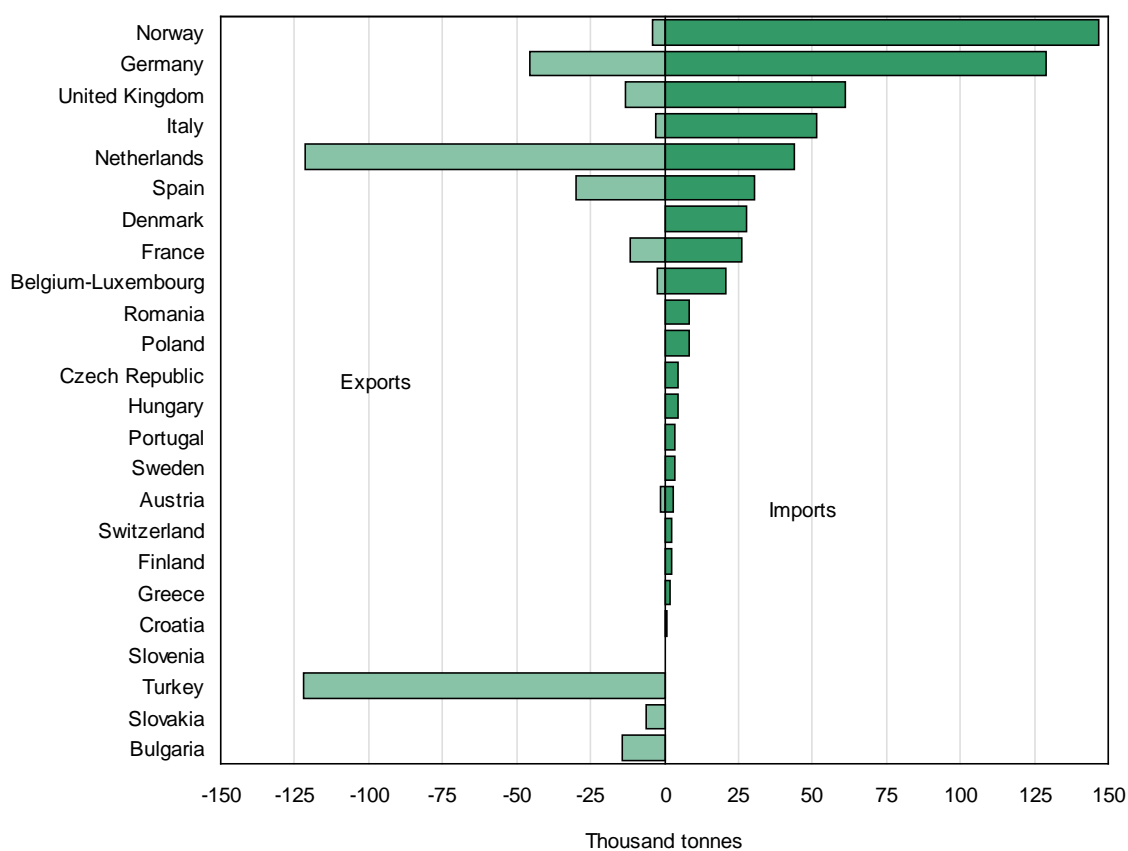
tonnes

Country	2005	2006	2007	2008	2009
Slovenia	845	1 044	585	596	530
Spain	47 923	50 743	65 569	71 025	30 503
Sweden	4 610	4 876	6 504	6 371	3 346
Switzerland	2 242	2 433	2 843	3 644	2 605
Turkey	2 003	279	741	455	507
United Kingdom	54 753	78 225	84 617	56 794	61 308

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

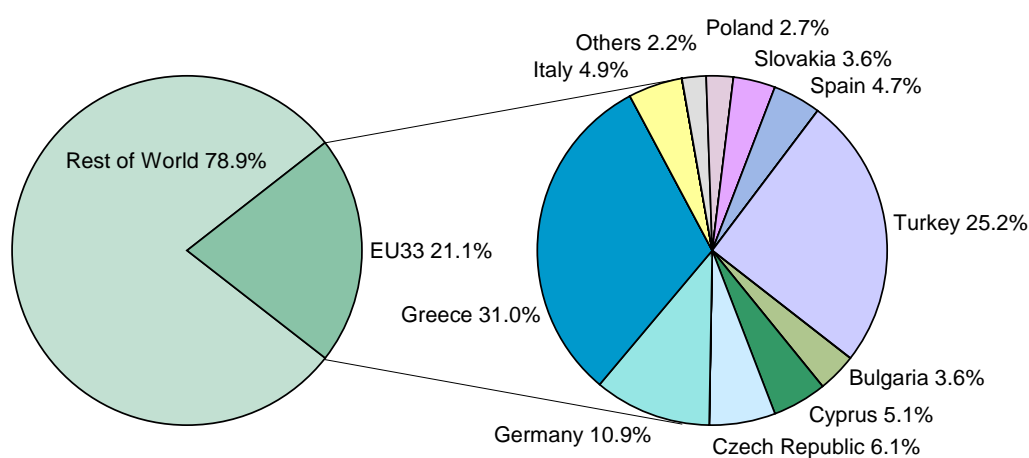
Barytes - EU33 trade in 2009



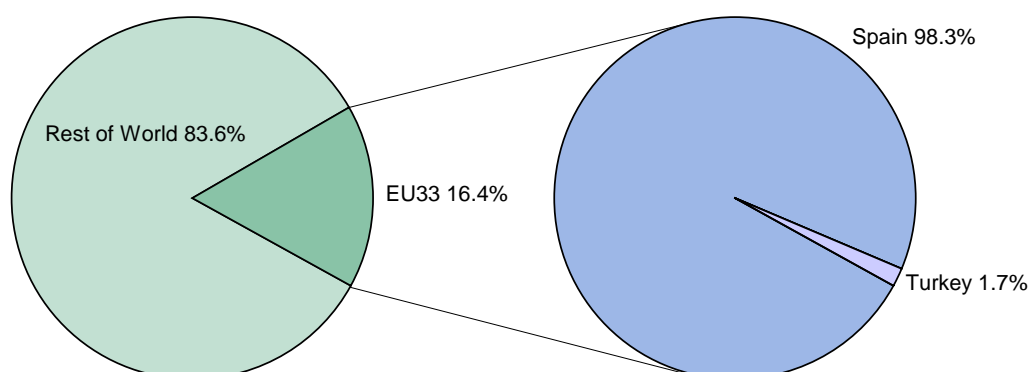
Bentonite and fullers earth

- Bentonites consist of montmorillonite (a clay mineral) that occurs as two main varieties — calcium bentonite and the more commercially important sodium bentonite. In the UK the name fuller's earth is given to calcium bentonite (and in the USA, 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 EU33 countries produced 21.1 per cent of world bentonite in 2009. The world's largest producer was the USA with 29 per cent of world production. Greece is the largest producer of bentonite in the EU33 with 31.0 per cent of EU33 production. UK production of fuller's earth ceased in 2005 and there is no longer any significant production in the EU33. More than 80 per cent of world production comes from the USA. Most of Europe's sepiolite production in 2009 came from Spain, with a smaller (estimated) contribution from Turkey.

EU33 Production of bentonite 2009



EU33 Production of attapulgite and sepiolite 2009



Production of bentonite and fuller's earth

tonnes

Country	2005	2006	2007	2008	2009
Bulgaria					
Bentonite	181 200	134 500	99 000	178 700	108 400
Croatia					
Bentonite	17 391	16 410	19 578	19 759	* 20 000
Cyprus					
Bentonite	172 366	150 620	154 655	155 125	152 722
Czech Republic					
Bentonite	216 000	267 000	335 000	235 000	181 000

Bentonite and Fuller's Earth

Production continued					tonnes
Country	2005	2006	2007	2008	2009
Denmark					
Bentonite	18 515	19 211	20 093	22 458	24 040
Germany					
Bentonite	352 374	363 998	384 709	414 336	326 461
Greece					
Bentonite	1 124 795	* 1 200 000	(a) 1 389 800	(a) 1 528 584	(a) 926 186
Hungary					
Bentonite	4 900	6 635	54 231	7 464	2 839
Italy					
Bentonite	445 573	469 654	599 735	281 119	146 318
Macedonia					
Bentonite	14 958	20 353	22 509	13 689	9 033
Poland					
Bentonite	86 331	97 900	105 943	121 031	81 354
Romania					
Bentonite	18 190	21 165	16 911	16 638	13 694
Slovakia					
Bentonite	97 000	136 000	149 000	145 000	109 000
Spain					
Bentonite	163 290	154 746	147 253	154 534	* 140 000
Attapulgite	20 565	20 933	24 615	27 348	21 110
Sepiolite	807 820	806 345	717 728	737 659	573 937
Turkey					
Bentonite	582 735	* 600 000	748 170	683 253	753 155
Sepiolite	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
United Kingdom					
Fuller's earth (b)	6 200	—	—	—	—
EU33 Total					
Bentonite	3 496 000	3 658 000	4 247 000	3 977 000	2 994 000
Fullers Earth (a)	845 000	837 000	752 000	775 000	605 000

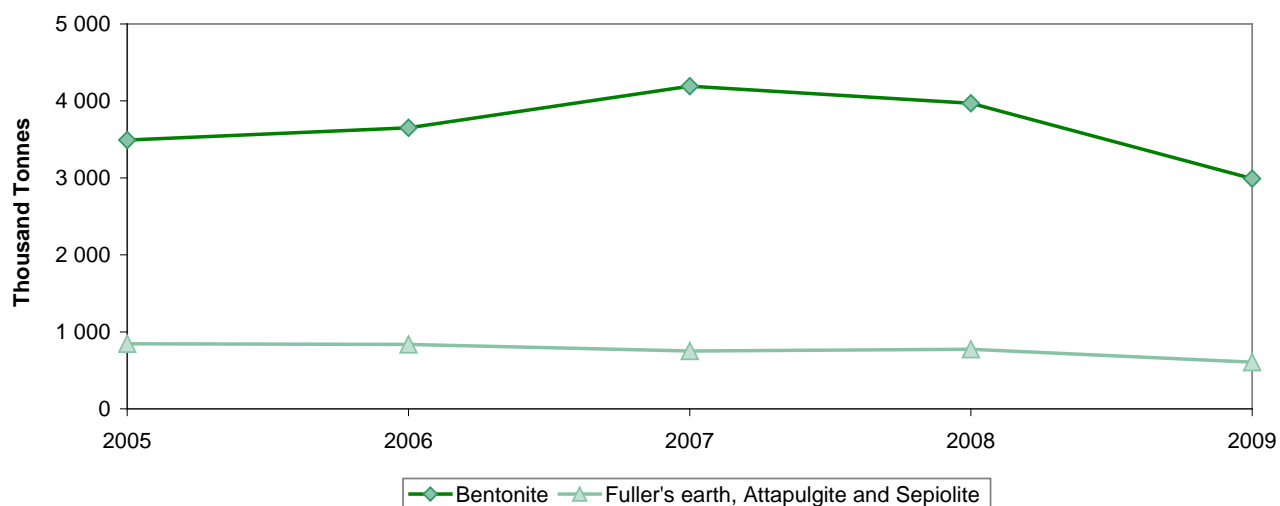
Note(s)

- (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) Including attapulgite and sepiolite

(b) Saleable production based on data from producing companies

EU33 Production of bentonite, fuller's earth, attapulgite and sepiolite 2005 - 09



Exports of bentonite and fuller's earth

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Bentonite	10 173	8 112	5 589	5 225	4 350
Belgium-Luxembourg					
Bentonite	26 049	32 407	18 504	34 034	36 264
Fuller's earth	501	303	...	...	...
Bulgaria					
Bentonite	76 614	89 531	74 412	103 106	79 359
Cyprus					
Bentonite	85 724	159 472	156 871	92 089	95 674
Czech Republic					
Bentonite	85 093	86 296	97 358	105 403	99 584
Denmark					
Bentonite	17 066	19 214	19 495	15 734	13 004
Finland					
Bentonite	155	232	115	42	803
France					
Bentonite	9 243	9 788	13 454	12 231	9 211
Germany					
Bentonite	71 977	77 368	81 272	67 109	52 424
Fuller's earth	1 540	1 378	...	...	...
Greece					
Bentonite	1 283	12 620	168	8 885	5 116
Fuller's earth	90	122	...	...	...
Hungary					
Bentonite	442	860	849	1 191	555
Italy					
Bentonite	245 515	272 438	296 809	293 417	186 219
Lithuania					
Bentonite	26	2 491	5 457	1 929	266
Macedonia					
Bentonite	4 346	4 747	4 181	5 201	3 716
Netherlands					
Bentonite	186 286	132 076	129 692	120 946	135 722
Fuller's earth	2 931	2 141	...	...	...
Poland					
Bentonite	12 061	15 851	19 107	20 384	23 918
Fuller's earth	404	580	...	...	...
Portugal					
Bentonite	444	518	1 718	1 608	691
Romania					
Bentonite	7 154	521	68	10	31
Slovakia					
Bentonite	76 014	105 273	89 517	79 936	65 429
Fuller's earth	1 757	...	...	...	...
Slovenia					
Bentonite	...	107	196	142	284
Spain					
Bentonite	75 450	73 767	72 278	75 287	1 021 034
Sepiolite	507 103	465 599	474 788	460 485	418 644
Fuller's earth	9 828	7 896	...	...	...
Sweden					
Bentonite	7 419	9 539	12 240	11 640	5 588
Turkey					
Bentonite	211 926	84 595	22 237	244 177	250 082
Fuller's earth	342	251	...	...	...
United Kingdom					
Bentonite	49 514	42 548	47 122	43 261	34 622
Fuller's earth	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, but these are not included in this table
- (5) From 2007 Harmonised System 2508.20, used in this table for fuller's earth, is no longer available

Imports of bentonite and fuller's earth

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Bentonite	58 344	60 667	58 727	68 703	66 575
Fuller's earth	374	427	...	...	...
Belgium-Luxembourg					
Bentonite	45 282	48 871	42 816	74 621	63 062
Fuller's earth	8 028	7 036	...	...	...
Bulgaria					
Bentonite	1 178	1 455	2 979	3 386	2 422
Fuller's earth	422	537	...	...	...
Croatia					
Bentonite	1 897	2 053	7 633	39 289	22 383
Fuller's earth	136	260	...	...	...
Cyprus					
Bentonite	3 057	9 063	10 556	12 496	5 709
Czech Republic					
Bentonite	14 776	18 452	23 559	24 239	25 129
Fuller's earth	1 290	1 039	...	...	...
Denmark					
Bentonite	47 386	49 695	43 555	34 012	35 089
Fuller's earth	137	921	...	...	...
Estonia					
Bentonite	2 014	2 223	1 995	1 506	1 631
Finland					
Bentonite	26 395	32 520	37 741	31 445	19 429
Fuller's earth	201	109	...	...	...
France					
Bentonite	163 999	220 996	243 350	198 787	158 715
Fuller's earth	18 445	23 522	...	...	...
Germany					
Bentonite	253 226	323 999	351 991	361 782	335 990
Fuller's earth	9 571	9 371	...	...	...
Greece					
Bentonite	22 164	14 573	19 780	21 261	8 593
Fuller's earth	844	811	...	...	...
Hungary					
Bentonite	2 794	4 850	2 933	3 095	3 608
Fuller's earth	281	...	...	...	...
Iceland					
Bentonite	726	2 468	5 022	2 392	1 259
Ireland, Republic of					
Bentonite	2 658	1 725	2 916	2 643	2 741
Italy					
Bentonite	138 973	121 697	155 568	136 417	96 698
Fuller's earth	7 893	8 208	...	...	...
Latvia					
Bentonite	1 629	1 544	1 850	2 628	2 148
Lithuania					
Bentonite	2 675	2 838	3 105	3 068	3 368
Netherlands					
Bentonite	199 692	281 144	305 364	314 298	* 190 000
Fuller's earth	70 482	80 511	...	...	...
Norway					
Bentonite	10 000	15 246	14 399	14 783	12 612
Fuller's earth	260	209	...	...	...
Poland					
Bentonite	115 208	153 266	162 424	171 633	122 165
Fuller's earth	2 566	2 564	...	...	...
Portugal					
Bentonite	16 881	17 640	18 480	20 304	12 788
Fuller's earth	483	379	...	...	...
Romania					
Bentonite	3 805	4 685	5 253	6 014	3 859
Fuller's earth	321	358	...	...	...
Slovakia					
Bentonite	6 863	6 916	7 145	8 987	5 890
Fuller's earth	1 082	886	...	...	...

Imports continued

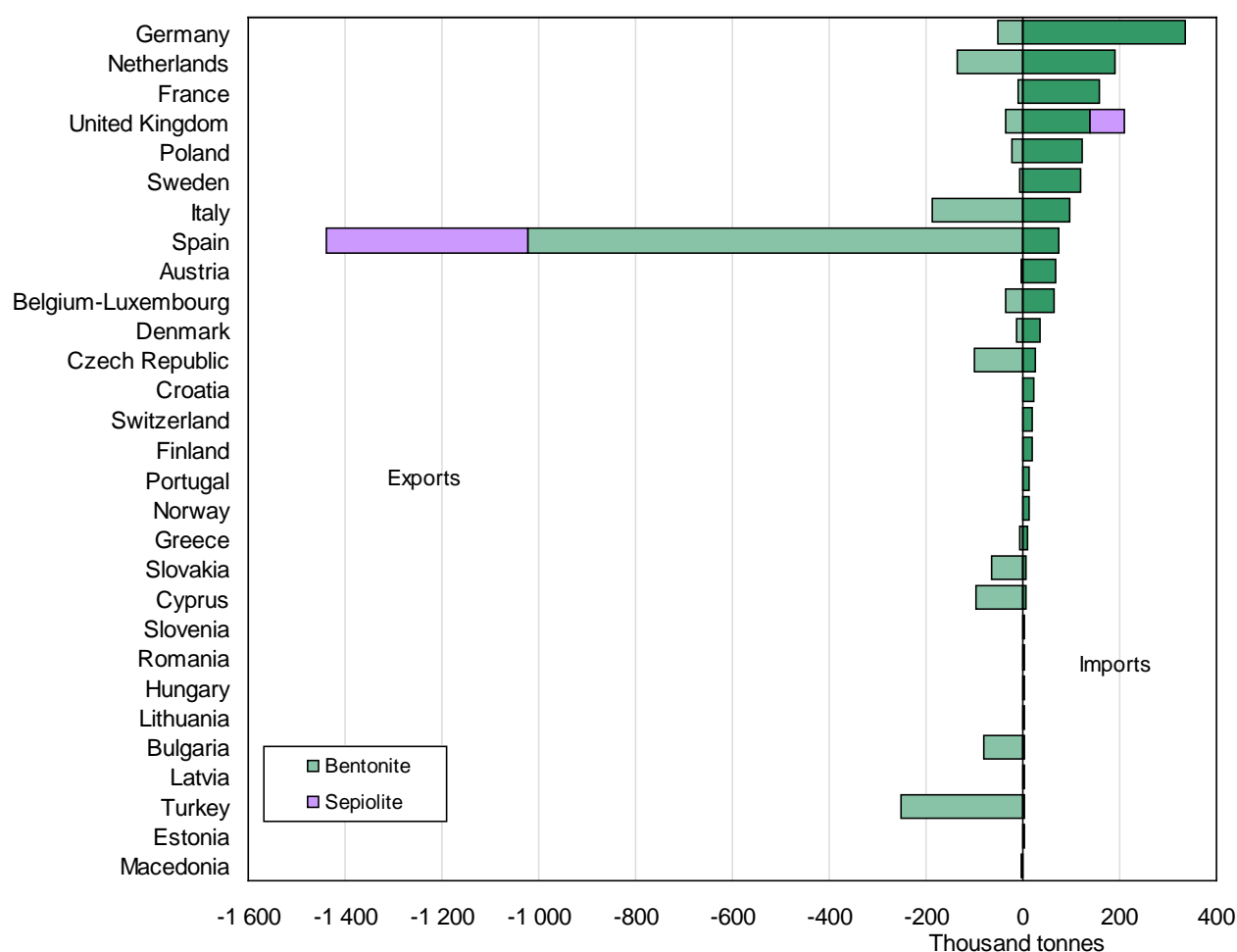
tonnes

Country	2005	2006	2007	2008	2009
Slovenia					
Bentonite	3 612	4 981	4 048	3 976	4 421
Spain					
Bentonite	83 784	82 645	104 057	103 602	72 993
Fuller's earth	238	159	...	...	...
Sweden					
Bentonite	48 564	125 491	184 313	178 308	120 079
Switzerland					
Bentonite	20 861	24 407	21 334	21 876	20 407
Fuller's earth	1 844	916	...	...	...
Turkey					
Bentonite	4 188	5 210	10 541	9 806	1 827
Fuller's earth	159	93	...	...	...
United Kingdom					
Bentonite	151 179	173 483	157 388	205 853	140 301
Sepiolite	65 565	72 340	282 733	227 453	70 651
Fuller's earth	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, but these are not included in this table
- (5) From 2007 Harmonised System 2508.20, used in this table for fuller's earth, is no longer available

Bentonite and Fuller's earth - EU33 trade in 2009



Bismuth

- Bismuth is a metallic element, chiefly used in its compound form, in pharmaceuticals and as metal in fusible (low-melting) alloys. It is also highly valued as a substitute for lead.
- China and Mexico are the world's largest producers of bismuth, with 62.5 per cent of world production in 2009 coming from these two countries. Peru was previously a large producer but its output in 2009 fell by more than 60 per cent compared to the previous year. There is very little mine production in the EU33, although, bismuth is produced as a by-product of lead and zinc refining.

Mine production of bismuth

tonnes (metal content)

Country	2005	2006	2007	2008	2009
Bulgaria	* 40	* 45	* 45	* 45	...
Romania	* 40	* 40	* 40	* 40	* 40

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

Exports of bismuth metal

tonnes

Country	2005	2006	2007	2008	2009
Austria	8	0	12	1	1
Belgium-Luxembourg	* —	* —	355	162	413
France	39	24	52	74	6
Germany	371	534	901	276	143
Italy	2	1	1	38	5
Netherlands	97	48	238	196	28
Spain	9	118	32	19	14
United Kingdom	2 426	2 703	2 588	905	941

Imports of bismuth metal

tonnes

Country	2005	2006	2007	2008	2009
Austria	62	114	42	148	80
Belgium-Luxembourg	27	109	111	190	9
Croatia	10	5	10	8	—
Czech Republic	50	77	70	78	53
France	1 029	547	382	219	102
Germany	1 508	1 337	1 130	1 262	881
Greece	6	6	11	3	—
Hungary	2	3	3	13	84
Ireland, Republic of	6	8	12	38	14
Italy	203	251	316	269	152
Netherlands	85	168	127	120	42
Poland	14	14	15	25	20
Slovenia	69	66	90	60	24
Spain	179	297	190	212	52
Sweden	11	8	5	12	6
Switzerland	15	6	8	12	12
Turkey	7	11	14	21	15
United Kingdom	2 858	2 347	1 908	1 582	310

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 medicines, fumigants, dyes, and pesticides.
- Bromine is almost entirely produced from processing sea-water. The largest producer is the USA with 44 per cent of the world's total. The second largest producer is now China (with 27 per cent of the world's total), which overtook Israel in 2009 largely as a result of the latter's production from the Dead Sea falling by 22 per cent compared to 2008.

Production of bromine

kilograms

Country	2005	2006	2007	2008	2009
Spain	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000

Exports of bromine

kilograms

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg	19 124 000	20 738 100	17 430 000	20 963 000	17 466 300
Germany	3 000	4 600	3 400	14 400	6 031
Italy	1 000	228 287	55 156	1 000	43
Netherlands	1 593 400	1 334 000	1 475 500	1 821 400	1 960 700
Poland	3 000	5 500	9 400	5 000	5 500
Spain	1 000	192 339	418 531	2 000	2 578
United Kingdom	234 977	1 137 544	1 469 781	1 015 304	497 246

Note(s)

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

Imports of bromine

kilograms

Country	2005	2006	2007	2008	2009
Austria	222 000	228 600	463 900	488 000	65 300
Belgium-Luxembourg	25 108 000	24 553 300	21 768 500	26 540 000	20 618 700
Czech Republic	1 174	5 066	7 700	12 000	2 600
Finland	71 000	36 158	100	146 800	242 982
France	13 989 000	13 971 600	12 146 400	12 428 800	11 720 470
Germany	1 304 000	801 100	607 500	646 400	456 893
Hungary	12 000	9 300	(a) 29 143	9 900	10 500
Italy	281 000	522 069	374 426	598 800	958 588
Netherlands (a)	5 019 289	3 037	4 403	7 661	63 310
Poland	6 000	16 000	14 300	10 600	6 100
Romania (a)	9 827	9 104	152 319	267 073	285 593
Slovakia	400	9 700	2 600	(a) 582	(a) 2 470
Spain	53 000	82 351	77 578	169 159	75 099
Sweden	13 000	9 000	2 800	31 700	3 100
Turkey (a)	125 982	55 642	28 424	6 761	6 497
United Kingdom	7 994 939	7 592 352	5 266 339	5 903 423	6 534 300

Note(s)

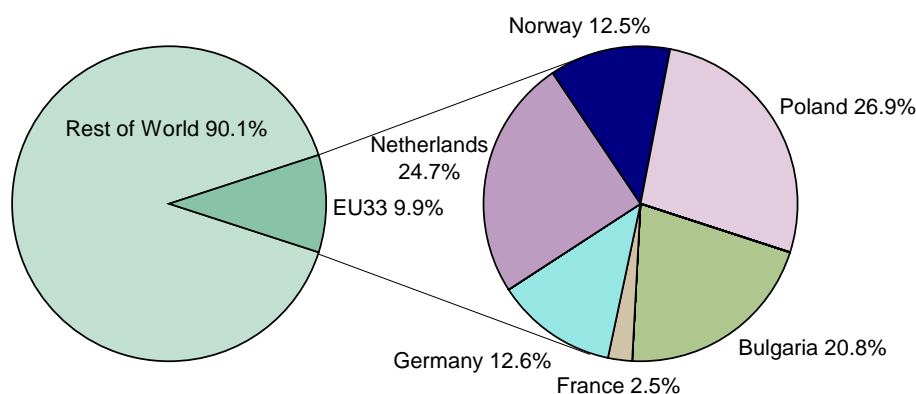
(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

(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 three largest world producers in 2009 were China (35 per cent of the world total), the Republic of Korea (12.4 per cent) and Japan (nine per cent). The EU33 contributed 9.9 per cent of world production in 2009. Poland was the largest EU33 producer accounting for about 26.9 per cent of EU33 production, followed by the Netherlands (24.7 per cent) and Bulgaria (20.8 per cent).

EU33 Production of cadmium 2009



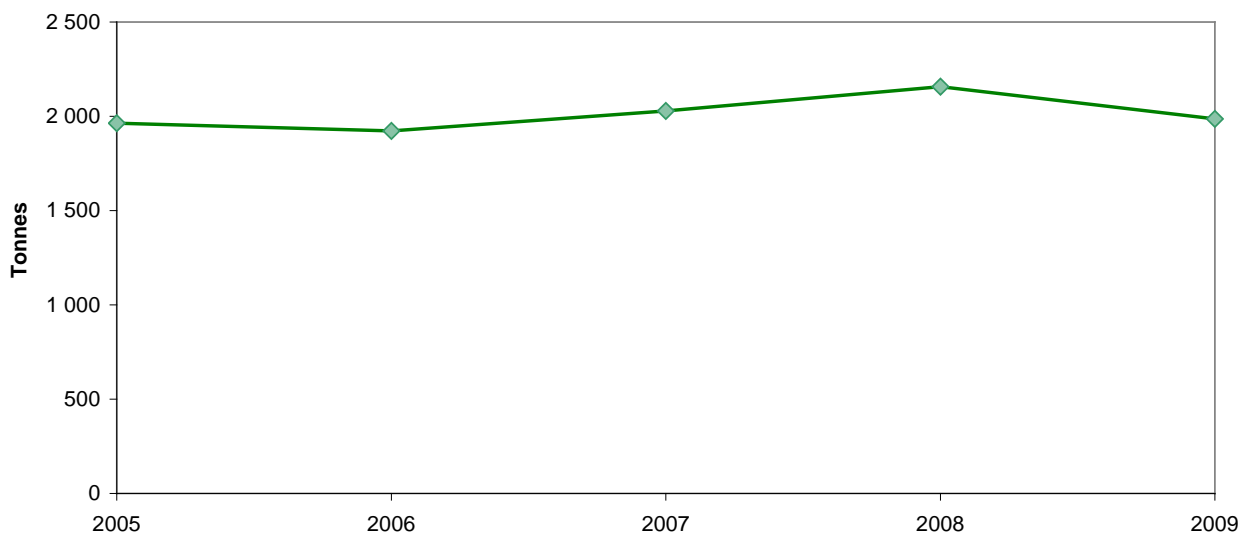
Production of cadmium

Country	2005	2006	2007	2008	2009
Bulgaria	319	320	318	376	413
France	* 100	* 90	* 50	* 50	* 50
Germany	* 490	* 490	* 475	* 420	* 250
Netherlands	494	524	495	530	490
Norway	153	125	269	178	249
Poland	408	373	421	603	534
EU33 Total	2 000	1 900	2 000	2 200	2 000

Note(s)

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

EU33 Production of cadmium 2005 - 09



Exports of cadmium

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Metal	639	298	181	442	452
Sulphide	29	7	...	...	...
Bulgaria					
Metal	316	369	434	374	569
France					
Metal	533	798	815	890	1 022
Germany					
Metal	...	...	...	287	276
Sulphide	14	4	...	...	...
Italy					
Metal	18	1	796	1 633	2 030
Netherlands					
Metal	553	1 064	544	816	305
Norway					
Metal	132	90	205	259	211
Poland					
Metal	610	364	368	558	590
Sweden					
Oxide	140	...	322	448	305
United Kingdom					
Metal	79	7	76	54	25

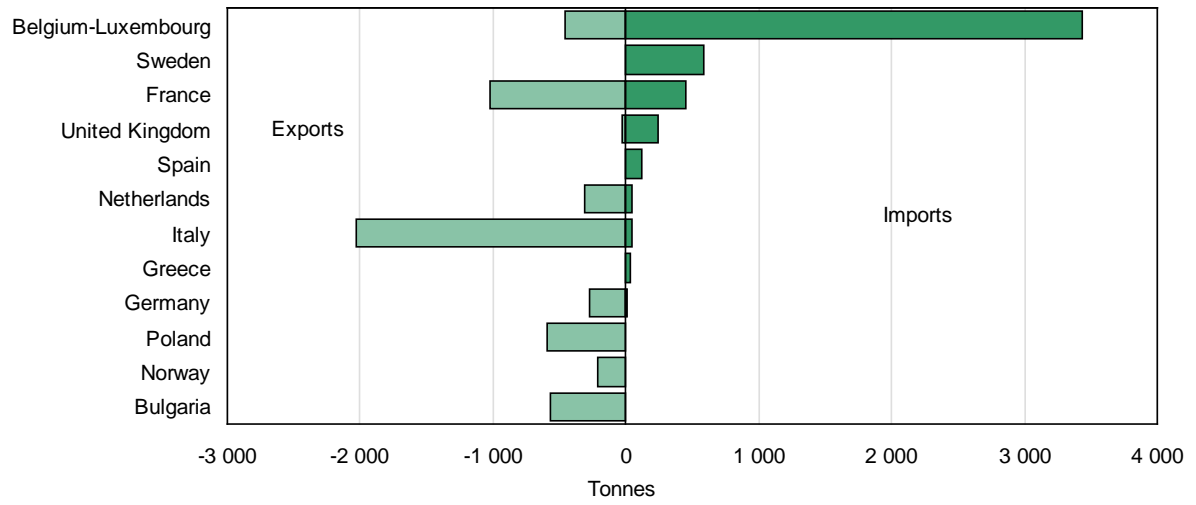
Imports of cadmium

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Metal	4 779	3 948	5 038	5 511	3 439
Sulphide	29	13	...	...	...
Czech Republic					
Oxide	251	...	338	463	396
Sulphide	21	14	...	...	...
France					
Metal	2 114	527	771	645	455
Oxide	584	...	885	1 114	605
Germany					
Metal	16	7	22	53	11
Oxide	231	...	423	507	522
Sulphide	18	...	...	...	...
Greece					
Metal	1	1	1	18	39
Italy					
Metal	72	30	40	49	43
Oxide	55	...	1	3	3
Netherlands					
Metal	233	113	437	186	50
Spain					
Metal	2	19	0	21	118
Oxide	53	17	22	25	3
Sweden					
Metal	282	388	491	851	588
Oxide	35	...	25	83	42
United Kingdom					
Metal	206	129	276	212	246

Cadmium

Cadmium metal - EU33 trade in 2009



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 or 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 five per cent gypsum/anhydrite to produce finished cement.
- Turkey was the largest producer of cement clinker in the EU33 during 2009, with 26 per cent of EU33 production. Italy is normally also a significant producer but accurate data are difficult to obtain. Turkey is also the largest producer of finished cement with 20 per cent of the EU33 total. There is significant international trade in both clinker and finished cement.

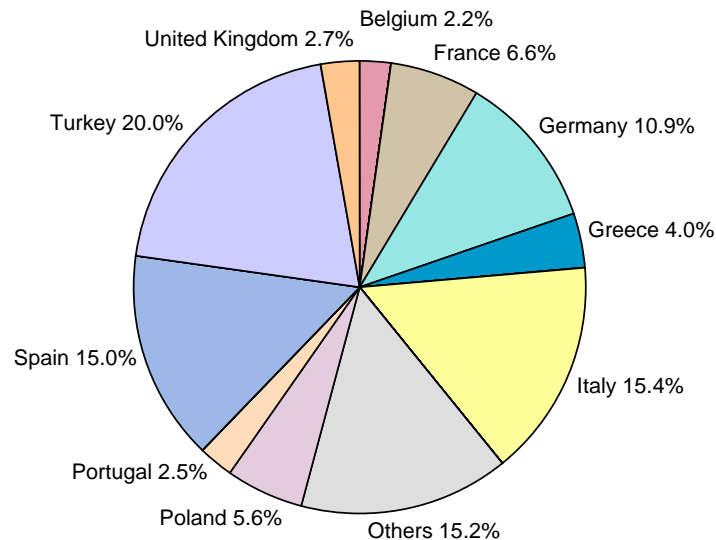
Production of cement clinker

tonnes

Country	2005	2006	2007	2008	2009
Austria	90 053	188 588	221 684	287 911	167 641
Bulgaria	...	...	...	3 509 817	1 858 850
Cyprus	37 891	97 846	—	—	30 286
Czech Republic	...	...	3 127 530	3 137 828	2 433 746
Denmark	42 691	5 499	21 209	16 092	122
Estonia	635 500	704 700	1 042 800	1 040 000	448 500
France	17 332 000	17 731 000	18 046 000	16 885 000	14 568 000
Germany	24 315 000	24 921 000	26 992 000	25 366 000	23 232 000
Greece	12 442 361	10 852 453	12 035 077	11 361 397	8 649 322
Hungary	...	2 533 076	2 500 698	* 2 500 000	* 2 400 000
Italy	...	...	...	...	(a) 25 028 774
Lithuania	...	...	...	—	233 292
Luxembourg	834 000	816 000	817 000	761 800	706 426
Poland	9 468 410	11 219 940	13 167 950	12 443 103	10 659 214
Portugal (a)	1 450 646	1 484 856	1 513 487	1 760 510	1 749 406
Romania	464 613	606 088	222 699	111 719	—
Spain (a)	482 536	540 482	579 236	2 011 830	2 961 500
Sweden	2 457 245	2 660 045	1 712 626	1 881 054	* 1 900 000
Turkey	31 355 180	32 824 687	39 363 683	41 652 824	41 084 368
United Kingdom	10 074 000	10 069 000	10 227 000	8 700 000	6 421 000
EU33 Total	*150 000 000	*153 000 000	*164 000 000	*163 000 000	*145 000 000

Note(s)
(a) Sales

EU33 Production of finished cement 2009



Production of finished cement

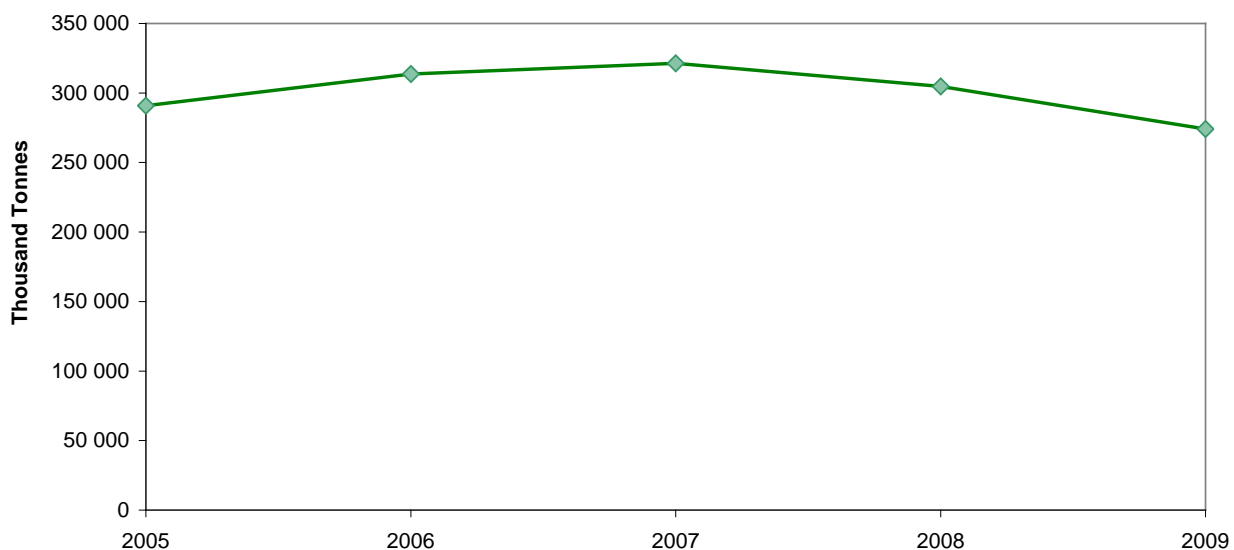
tonnes

Country	2005	2006	2007	2008	2009
Austria	4 676 768	5 293 370	5 518 303	6 131 257	5 230 755
Belgium	6 587 000	6 965 000	6 930 000	7 135 000	6 113 000
Bulgaria	3 559 420	4 003 664	* 4 290 000	4 900 336	2 660 176
Cyprus	1 804 645	1 786 488	1 872 531	1 913 620	1 480 843
Czech Republic	3 978 056	4 677 150	4 898 530	4 804 845	3 851 100
Denmark	2 880 554	2 937 132	2 871 402	2 538 822	1 578 614
Estonia	726 000	848 900	937 400	808 000	326 200
Finland (a)	1 347 000	1 684 507	1 771 000	1 638 000	* 1 042 000
France	21 277 000	22 268 000	22 268 000	21 443 000	18 300 000
Germany	30 600 000	33 630 000	33 382 000	33 581 000	30 441 000
Greece	15 191 761	15 723 088	14 559 293	14 013 312	11 160 205
Hungary	3 371 000	3 724 153	3 551 746	3 544 000	* 3 200 000
Ireland, Republic of	* 4 900 000	* 4 700 000	* 4 700 000	* 3 910 000	* 2 640 000
Italy	46 400 000	47 400 000	46 700 000	43 000 000	43 000 000
Latvia	* 280 000	* 280 000	* 300 000	* 310 000	* 300 000
Lithuania	832 076	1 065 367	1 105 365	1 075 581	583 067
Luxembourg	767 000	796 000	908 000	907 500	929 820
Netherlands	2 496 000	2 790 000	2 700 000	* 2 700 000	* 2 700 000
Norway	1 613 000	1 695 000	1 700 000	* 1 700 000	* 1 700 000
Poland	12 646 223	14 688 353	16 963 752	17 206 735	15 536 984
Portugal (a)	8 426 830	8 326 687	9 178 735	8 365 242	7 031 438
Romania	7 032 100	8 198 090	9 844 706	10 461 456	2 871 757
Slovakia	3 498 685	3 592 509	3 718 410	4 157 356	3 011 460
Slovenia	1 114 000	1 269 000	* 1 300 000	* 1 300 000	* 1 000 000
Spain	50 300 000	54 032 770	54 720 445	42 088 110	42 000 000
Sweden	2 731 000	2 952 000	2 950 000	* 2 950 000	* 2 900 000
Switzerland (b)	4 267 854	4 231 294	4 252 574	4 238 311	4 333 096
Turkey	41 100 274	47 906 365	50 995 107	54 027 283	55 741 176
United Kingdom	11 216 000	11 469 000	11 887 000	10 071 000	7 623 000
EU33 Total	290 900 000	313 600 000	321 300 000	304 800 000	274 100 000

Note(s)

(a) Sales

(b) Includes production in Liechtenstein

EU33 Production of finished cement 2005 - 09

Exports of cement

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Cement clinkers	32 877	136 381	189 450	243 906	146 991
Portland cement	151 330	201 687	314 112	344 338	272 440
Other cement	53 951	38 926	59 361	82 570	56 934
Belgium-Luxembourg					
Cement clinkers	833 257	544 183	1 078 149	1 075 183	994 914
Portland cement	1 715 979	1 811 884	2 087 094	2 069 807	1 841 912
Other cement	612 642	609 236	606 807	821 103	555 773
Bulgaria					
Cement clinkers	338 505	293 031	353 996	120 588	14 836
Portland cement	455 824	334 013	52 803	130 932	109 923
Other cement	27	40	1 067	22 589	394
Croatia					
Cement clinkers	196 594	244 043	310 378	235 377	169 394
Portland cement	1 254 309	1 282 560	855 579	667 503	615 827
Other cement	92 074	89 957	94 185	468 597	276 981
Cyprus					
Cement clinkers	37 891	91 635	0	...	24 215
Portland cement	219 460	155 271	51 022	...	27 324
Czech Republic					
Cement clinkers	29 169	32 521	29 924	19 039	85 427
Portland cement	526 784	394 105	458 701	436 600	374 515
Other cement	34 046	67 930	151 422	196 133	156 650
Denmark					
Cement clinkers	54 542	11 981	9 673	7 287	7 784
Portland cement	1 235 477	1 290 816	1 094 730	969 666	568 656
Other cement	13 118	14 153	16 222	25 482	20 751
Estonia					
Cement clinkers	97 442	87 638	325 263	426 384	395 641
Portland cement	225 729	228 971	274 997	383 449	120 294
Other cement	13	29	452	1 387	59
Finland					
Portland cement	3 367	647	982	2 618	1 275
France					
Cement clinkers	310 228	325 352	325 897	260 529	170 883
Portland cement	792 192	683 110	590 684	578 230	621 568
Other cement	102 222	113 145	13 999	10 056	—
Germany					
Cement clinkers	773 394	687 056	1 051 733	1 120 078	467 042
Portland cement	3 587 966	4 251 126	4 874 062	5 115 858	4 445 980
Other cement	1 876 289	1 852 990	2 086 591	2 077 175	2 101 709
Greece					
Cement clinkers	304 750	356 077	848 925	722 151	851 946
Portland cement	3 502 085	2 816 832	2 685 623	2 842 584	3 051 954
Other cement	242 957	181 529	207 665	205 640	297 036
Hungary					
Cement clinkers	27 328	—	—	—	1 701
Portland cement	274 262	257 050	177 191	329 647	220 069
Other cement	123	32	4 448	25 169	2 987
Ireland, Republic of					
Cement clinkers	0	—	16 033	—	4 823
Portland cement	942 655	972 585	1 120 808	1 144 186	1 054 533
Other cement	10	1 489	1 596	1 512	1 317
Italy					
Cement clinkers	19 427	61 437	143 235	38 106	5 280
Portland cement	2 379 941	2 091 427	2 143 940	2 094 130	1 637 605
Other cement	130 120	660 595	536 324	491 150	469 636
Latvia					
Cement clinkers	184	326	35 307	—	2 382
Portland cement	10 762	5 528	43 951	240 311	147 960
Other cement	1	141	10 178	20	126
Lithuania					
Portland cement	299 782	246 350	154 649	204 951	170 273
Other cement	10	16	893	1 531	491
Macedonia					
Cement clinkers	129 570	151 663	90 869	173 089	5 638
Portland cement	207 457	220 588	308 468	281 782	2 305

Cement

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Netherlands					
Cement clinkers	2 513	3 119	10 725	0	352
Portland cement	295 457	410 232	278 904	298 133	194 392
Other cement	18 513	134 225	12 931	6 217	11 447
Norway					
Cement clinkers (a)	* 50 000	* 65 000	* 117 000	* 118 000	* 104 000
Portland cement (a)	* 569 000	* 369 000	* 236 000	* 152 000	—
Poland					
Cement clinkers	256 621	856 035	181 690	163 902	127 806
Portland cement	460 479	402 741	313 361	314 733	405 940
Other cement	49 970	67 457	65 822	78 349	35 305
Portugal					
Cement clinkers	1 271 578	1 138 307	1 263 190	1 448 397	1 553 992
Portland cement	1 110 739	1 204 981	1 481 219	1 102 589	758 854
Other cement	17 301	11 364	58 931	11 139	15 231
Romania					
Cement clinkers	465 660	608 616	243 116	111 719	182
Portland cement	739 215	447 713	134 044	7 449	17 869
Slovakia					
Cement clinkers	26 549	27 092	30 800	53 871	127 016
Portland cement	1 433 926	1 372 554	1 346 692	1 622 292	1 344 258
Other cement	44 670	35 596	85 987	144 311	217 328
Slovenia					
Cement clinkers	58 765	21 440	2	1	—
Portland cement	56 776	73 187	55 803	77 656	96 736
Other cement	63 732	115 104	156 183	227 400	97 258
Spain					
Cement clinkers	13 259	28 809	37 343	907 694	1 181 783
Portland cement	1 713 572	1 386 652	1 358 857	1 474 428	1 411 588
Other cement	51 340	43 262	46 348	63 825	74 007
Sweden					
Portland cement	1 295 834	1 208 231	845 235	723 793	482 223
Other cement	2 555	12 144	15 237	14 082	7 166
Switzerland					
Cement clinkers	121 014	103 367	114 075	91 167	70 207
Portland cement	46 939	23 437	13 704	35 925	15 044
Other cement	2 692	988	4 014	9 009	4 062
Turkey					
Cement clinkers	2 990 365	1 559 980	1 539 287	2 558 779	3 856 403
Portland cement	6 713 088	3 277 480	4 323 666	11 010 951	16 356 895
Other cement	261 816	112 683	124 395	150 785	245 770
United Kingdom					
Cement clinkers	134 992	91 357	28 432	15 071	4 708
Portland cement	320 680	521 784	459 629	230 920	92 628
Other cement	68 554	86 858	88 452	93 122	51 359

Note(s)

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

Imports of cement

Country	2005	2006	2007	2008	2009
Austria					
Cement clinkers	532 745	487 406	520 714	456 127	404 998
Portland cement	860 087	686 652	626 723	753 529	639 545
Other cement	43 083	31 100	39 568	40 766	52 715
Belgium-Luxembourg					
Cement clinkers	442 986	545 575	798 670	664 109	702 461
Portland cement	898 871	897 315	892 981	988 208	836 178
Other cement	275 177	277 825	391 850	315 620	308 913
Bulgaria					
Cement clinkers	180 254	586 194	123 806	248 737	45 002
Portland cement	23 787	9 127	5 690	13 645	481 991
Other cement	1 128	1 665	1 829	1 110	955
Croatia					
Portland cement	379 711	447 202	340 112	393 886	393 613
Other cement	1 569	5 547	5 242	7 447	10 620
Cyprus					
Cement clinkers	43 375	17 819	17 498	66 787	15 455
Portland cement	2 339	1 241	1 017	29 311	249
Czech Republic					
Cement clinkers	95 108	117 477	109 392	134 179	101 031
Portland cement	1 027 011	1 001 321	918 739	932 685	890 776
Other cement	38 434	38 439	30 602	23 816	51 482
Denmark					
Cement clinkers	31 634	46 600	35 555	33 825	31 847
Portland cement	230 842	274 151	243 348	289 307	208 467
Other cement	36 753	54 194	52 662	38 687	46 117
Estonia					
Cement clinkers	21 219	44 059	31 127	25 438	—
Portland cement	3 311	1 833	2 536	4 613	30 424
Finland					
Cement clinkers	17 594	95 730	314 436	236 439	536
Portland cement	383 260	380 296	341 748	281 924	320 084
Other cement	13 211	12 176	16 006	15 911	12 232
France					
Cement clinkers	946 642	1 010 056	1 739 962	1 338 362	784 892
Portland cement	1 271 478	1 556 864	1 793 027	1 940 065	1 744 423
Other cement	984 597	1 120 524	1 223 442	1 185 083	980 685
Germany					
Cement clinkers	289 600	235 023	92 757	14 184	9 200
Portland cement	934 865	794 716	833 311	770 566	904 023
Other cement	380 858	345 286	311 152	293 583	272 741
Greece					
Cement clinkers	1 494	50 907	45 388	23 558	4 249
Portland cement	425	3 237	3 603	74 239	136 300
Other cement	4 548	3 228	3 010	2 618	2 359
Hungary					
Cement clinkers	9 051	65 437	40 099	...	117 232
Portland cement	565 366	455 108	560 863	643 776	565 552
Other cement	508 067	375 337	144 824	55 798	49 051
Iceland					
Cement clinkers	45 464	11 922	17 978	628	30
Portland cement	59 628	199 525	166 488	111 918	38 640
Other cement	27 165	847	868	505	241
Ireland, Republic of					
Cement clinkers	245 955	395 053	330 948	36 153	31 983
Portland cement	335 055	559 645	664 977	780 528	192 556
Other cement	8 958	9 079	16 409	14 649	10 698
Italy					
Cement clinkers	2 828 906	2 872 114	2 827 333	2 095 716	1 495 609
Portland cement	2 014 905	1 564 049	1 162 254	962 746	1 433 820
Other cement	152 325	184 862	287 190	295 988	308 222
Latvia					
Cement clinkers	38 589	43 774	29 438	30 233	34 375
Portland cement	234 862	322 187	431 482	353 174	87 660
Lithuania					
Cement clinkers	766	416	104 219	79 102	996
Portland cement	265 103	209 400	170 955	111 578	133 039

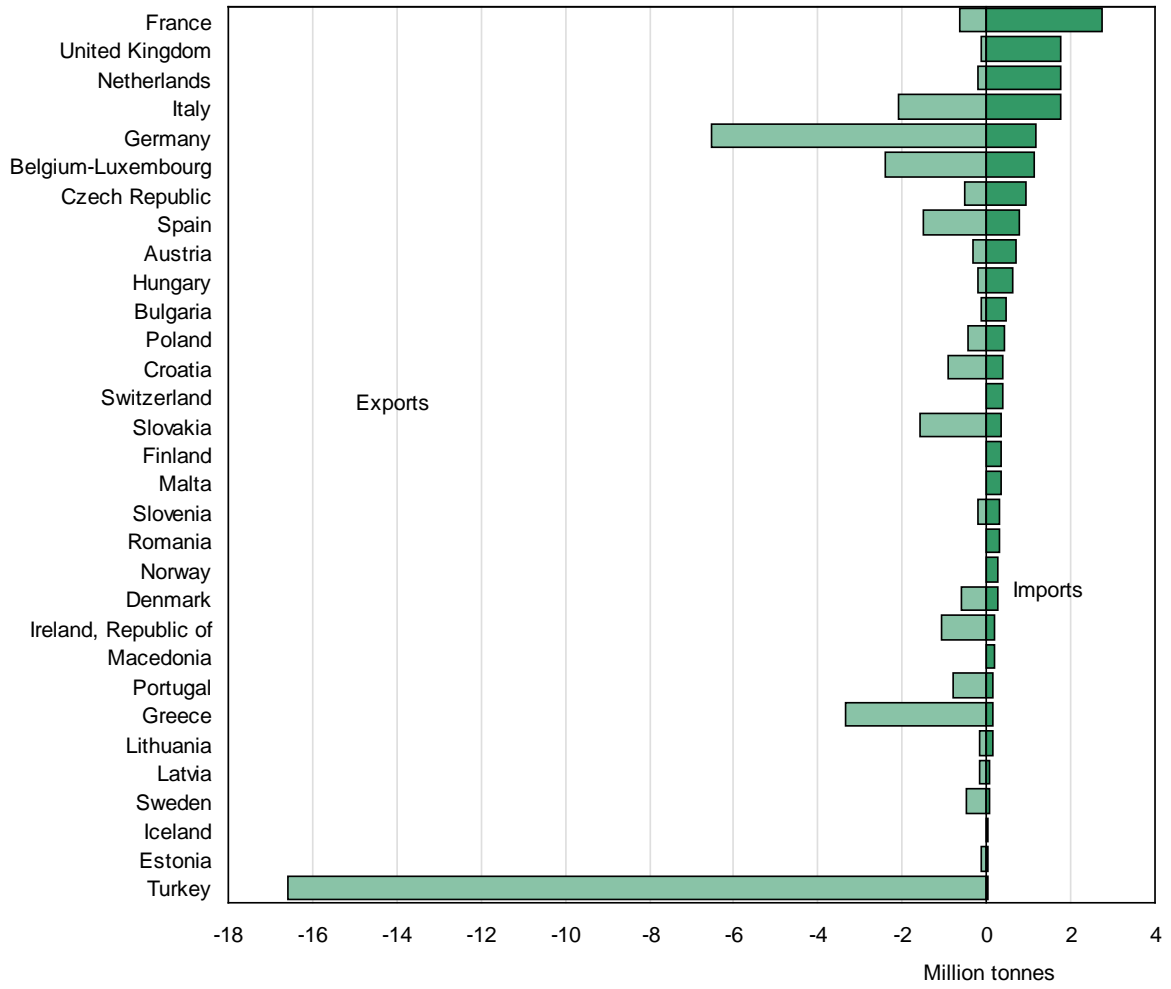
Cement

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Macedonia					
Portland cement	59 679	44 542	69 220	136 030	193 076
Malta					
Portland cement	316 012	389 690	356 365	374 392	328 411
Other cement	181	1 518	2 949	1 498	1 552
Netherlands					
Cement clinkers	388 146	494 944	228 817	380 281	511 560
Portland cement	1 632 872	1 925 756	2 072 034	1 705 144	904 788
Other cement	846 622	1 452 353	722 635	993 318	842 190
Norway					
Cement clinkers	6 615	8 782	14 895	36 704	6 904
Portland cement	373 788	443 104	441 619	361 216	237 896
Other cement	12 319	14 147	19 062	22 317	20 474
Poland					
Cement clinkers	33 673	45 560	65 632	127 428	35 106
Portland cement	444 855	285 135	520 330	680 447	421 822
Other cement	5 537	5 700	22 982	29 529	21 466
Portugal					
Cement clinkers	17 084	140 673	331 025	196 929	24 156
Portland cement	669 272	356 040	45 012	22 862	150 065
Other cement	10 479	14 286	11 966	8 842	11 072
Romania					
Cement clinkers	50	280	500 794	486 462	23 613
Portland cement	167 686	102 759	142 476	538 259	296 687
Other cement	1 653	3 085	12 072	32 765	15 779
Slovakia					
Cement clinkers	68 894	42 666	52 608	94 510	13 076
Portland cement	88 403	98 625	123 589	172 555	284 457
Other cement	49 619	56 418	58 035	93 031	56 060
Slovenia					
Cement clinkers	1 343	11 970	145 638	5 783	60
Portland cement	215 473	249 749	328 312	326 096	297 617
Other cement	2 906	6 917	17 037	4 618	17 414
Spain					
Cement clinkers	7 852 531	9 108 499	10 894 888	5 496 563	2 079 944
Portland cement	2 845 856	2 771 668	2 929 208	1 729 088	694 757
Other cement	20 031	40 164	74 401	58 007	73 362
Sweden					
Cement clinkers	14 601	13 238	29 344	37 009	10 434
Portland cement	242 326	249 670	55 784	61 891	29 482
Other cement	34 597	41 176	52 359	50 333	37 308
Switzerland					
Cement clinkers	71 542	115 001	15 292	8 596	27 649
Portland cement	352 409	380 862	348 262	361 305	364 034
Other cement	48 309	49 317	37 522	30 908	36 464
Turkey					
Cement clinkers	567 256	1 209 618	1 360 090	380 516	6 053
Portland cement	66 260	71 237	39 270	12 279	13 471
Other cement	4 693	3 979	4 202	5 036	3 358
United Kingdom					
Cement clinkers	406 044	516 583	836 788	366 791	206 857
Portland cement	1 645 088	1 397 025	1 534 683	1 731 228	1 718 146
Other cement	37 705	26 790	26 215	28 324	30 815

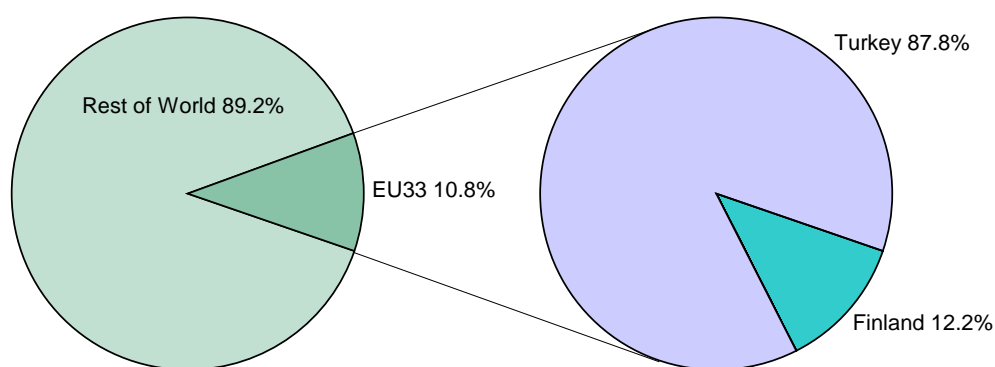
Cement - EU33 trade in 2009



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 of chromium ores and concentrates is dominated by South Africa, India and Kazakhstan which together produced 73 per cent of the world total in 2009. Finland and Turkey are the only countries in the EU33 with significant production, which amounted to nearly 11 per cent of the world total.

EU33 Production of chromium ores and concentrates 2009



Production of chromium ores and concentrates

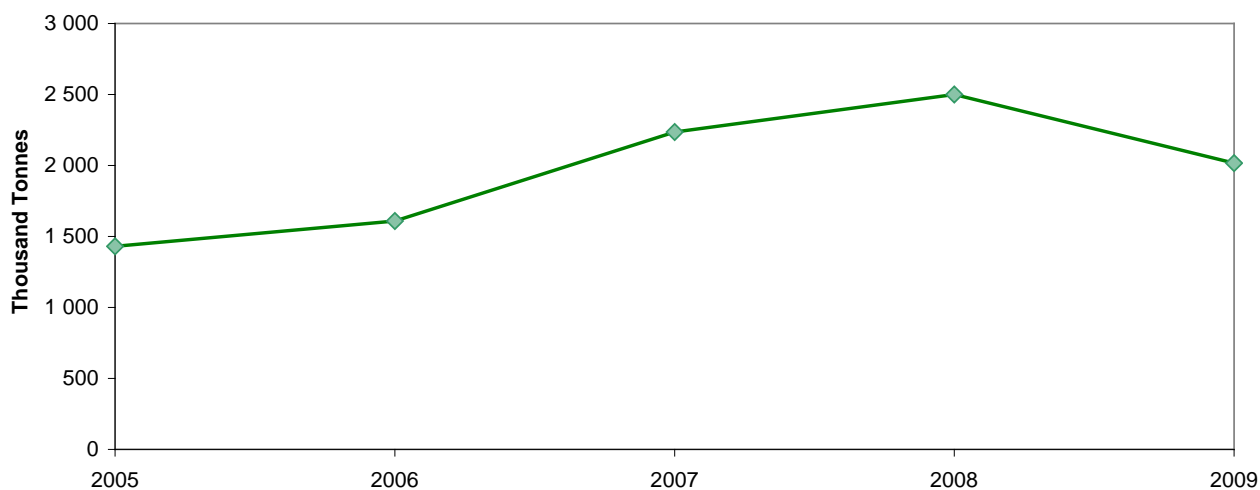
tonnes

Country	2005	2006	2007	2008	2009
Finland	572 000	549 000	556 000	614 000	247 000
Turkey	858 729	1 059 901	1 678 932	1 885 712	1 770 029
EU33 Total	1 431 000	1 609 000	2 235 000	2 500 000	2 017 000

Note(s)

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

EU33 Production of chromium ores and concentrates 2005 - 09



Exports of chromium

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Ores & concentrates	276	136	491	833	333
Metal	8 893	11 770	14 739	6 596	5 845
Belgium-Luxembourg					
Ores & concentrates	10 777	14 485	11 405	48 086	15 562
Metal	782	520	635	772	1 228
Czech Republic					
Ores & concentrates	523	645	800	507	369
Metal	109	2 104	946	594	662
Denmark					
Metal	703	855	549	1 262	659
Finland					
Ores & concentrates	841	1 570	2 492	3 041	2 050
Metal	1	5	—	1 034	1 577
France					
Ores & concentrates	2 340	2 013	2 391	4 694	1 935
Metal	8 074	6 457	7 225	7 844	4 767
Germany					
Ores & concentrates	14 188	24 185	20 629	23 563	15 922
Metal	1 478	2 877	3 114	5 379	4 685
Greece					
Ores & concentrates	249	726	—	98	44
Italy					
Ores & concentrates	4 673	5 446	3 980	2 567	1 762
Metal	1 070	111	1 666	166	29
Lithuania					
Ores & concentrates	948	2 213	1 156	240	78
Macedonia					
Ores & concentrates	46	...	1 835	160	...
Netherlands					
Ores & concentrates	72 062	74 909	78 433	117 639	32 485
Metal	3 543	4 430	2 125	4 282	885
Poland					
Metal	1	13	1 556	1 465	568
Portugal					
Ores & concentrates	1 111	591	295	70	—
Slovakia					
Metal	1 876	1 735	1 116	1 299	424
Spain					
Ores & concentrates	1 314	1 908	1 529	1 073	1 022
Metal	709	990	779	1 165	516
Sweden					
Metal	55	105	102	225	100
Switzerland					
Metal	249	530	74	54	44
Turkey					
Ores & concentrates	834 034	887 689	1 265 036	1 816 427	1 748 194
Metal	238	6	7	122	2 667
United Kingdom					
Ores & concentrates	228	47	178	—	32 507
Metal	4 547	5 123	6 777	6 501	5 058

Note(s)

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

Chromium

Imports of chromium

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Ores & concentrates	21 398	37 326	39 071	42 008	25 891
Metal	4 440	8 879	14 480	8 006	4 325
Belgium-Luxembourg					
Ores & concentrates	18 464	22 053	20 761	56 183	19 050
Metal	1 245	1 264	1 188	1 114	874
Bulgaria					
Ores & concentrates	997	1 440	969	793	637
Croatia					
Ores & concentrates	537	615	584	568	282
Metal	54	51	280	394	307
Czech Republic					
Ores & concentrates	12 440	11 380	13 936	12 990	7 798
Metal	149	123	281	282	83
Denmark					
Ores & concentrates	837	774	945	974	384
Finland					
Ores & concentrates	6 962	8 388	9 324	8 866	4 521
Metal	258	575	282	327	105
France					
Ores & concentrates	18 980	23 031	20 156	26 952	10 813
Metal	669	1 040	717	1 335	478
Germany					
Ores & concentrates	141 483	126 874	154 367	175 277	45 684
Metal	5 428	7 552	8 454	7 022	3 328
Greece					
Ores & concentrates	477	732	257	298	230
Hungary					
Ores & concentrates	388	306	492	479	251
Metal	182	289	28	86	23
Ireland, Republic of					
Metal	40	44	101	120	138
Italy					
Ores & concentrates	39 999	41 992	46 433	36 552	23 842
Metal	958	830	891	742	850
Macedonia					
Ores & concentrates	3	709	1 432	306	495
Netherlands					
Ores & concentrates	80 622	99 305	125 778	145 698	18 702
Metal	1 838	3 632	2 222	3 897	2 157
Norway					
Ores & concentrates (a)	* 500	* 500	* 20	* 600	* 400
Metal	92	73	253	128	74
Poland					
Ores & concentrates	9 391	16 161	38 543	36 646	12 728
Metal	54	45	1 717	2 137	679
Portugal					
Ores & concentrates	2 599	2 845	3 339	5 369	2 361
Metal	18	336	55	53	28
Romania					
Ores & concentrates	2 828	1 675	1 856	77 546	705
Metal	245	958	78	64	39
Slovakia					
Ores & concentrates	12 475	11 252	16 819	11 969	2 533
Metal	55	11	20	104	52
Slovenia					
Ores & concentrates	446	1 414	986	999	1 005
Metal	122	97	85	313	143
Spain					
Ores & concentrates	10 262	5 906	6 437	6 721	4 031
Metal	1 206	1 552	1 393	1 219	1 192
Sweden					
Ores & concentrates	240 000	315 000	350 000	337 933	—
Metal	1 150	1 639	2 145	12 782	4 396
Switzerland					
Ores & concentrates	624	1 080	1 339	1 510	974
Metal	127	162	114	134	38

Imports continued

tonnes

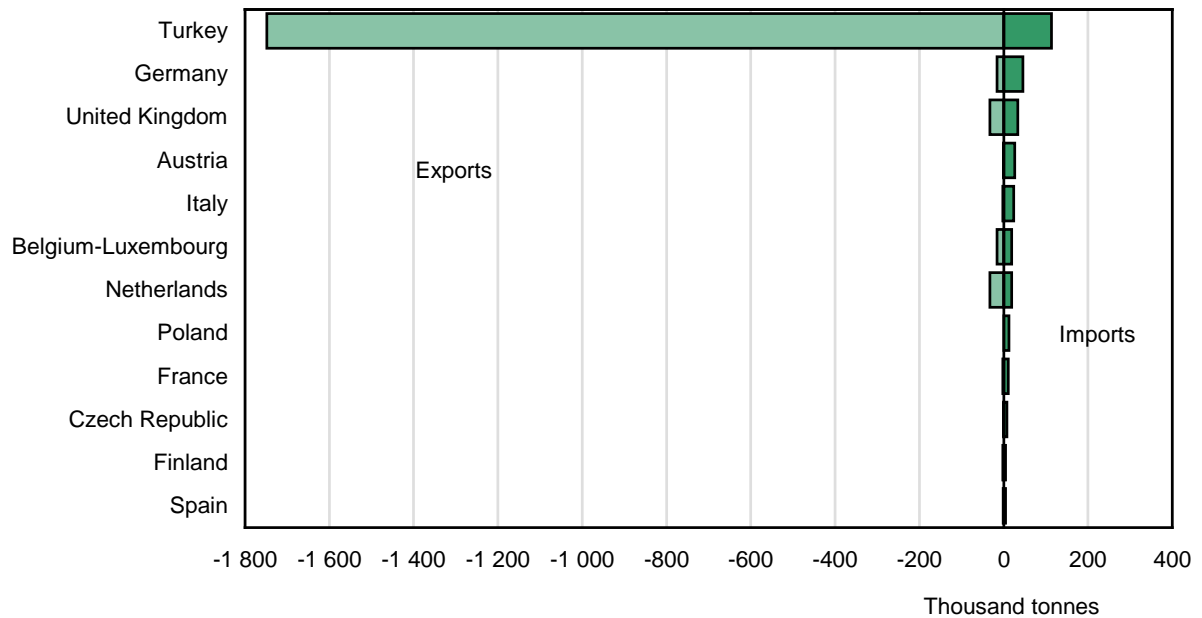
Country	2005	2006	2007	2008	2009
Turkey					
Ores & concentrates	89 844	84 467	107 524	119 806	113 461
United Kingdom					
Ores & concentrates	122 042	74 907	103 551	117 715	33 867
Metal	1 723	4 022	2 134	3 099	2 904

Note(s)

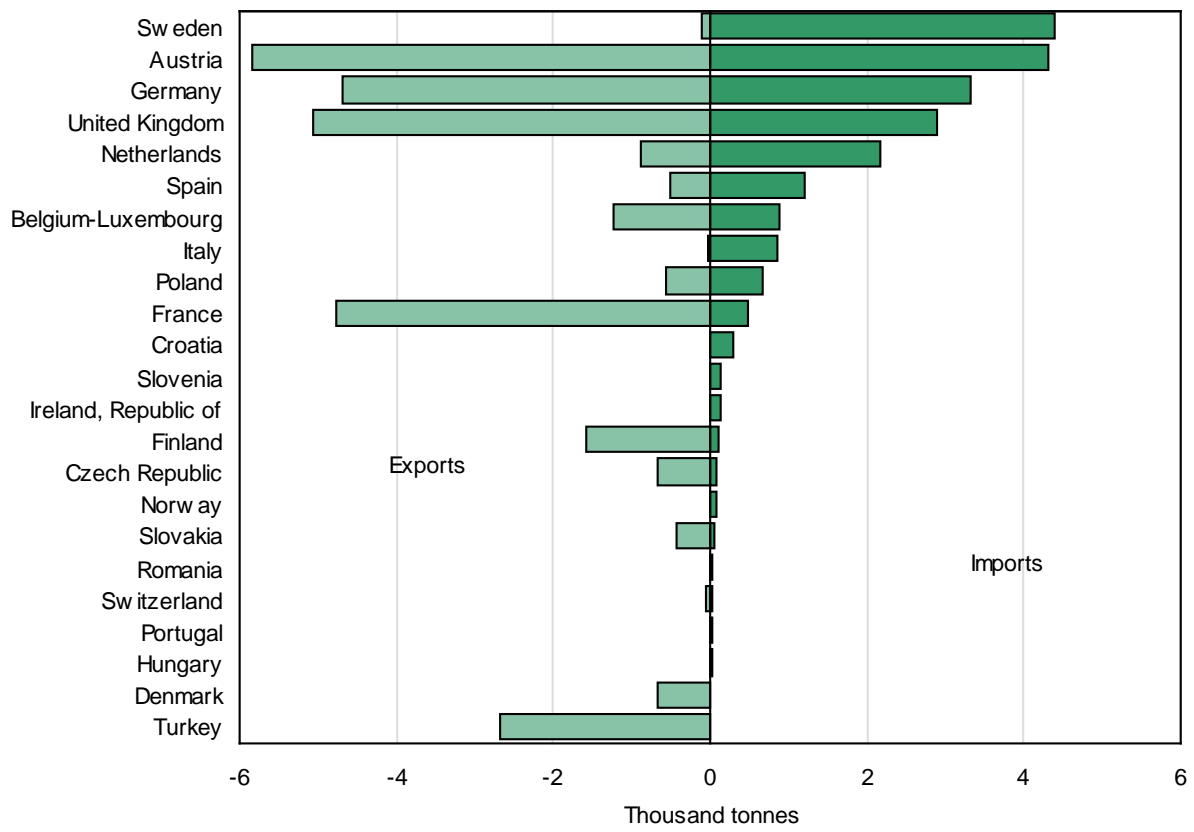
(1) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

Chromium ores and concentrates - EU33 trade in 2009



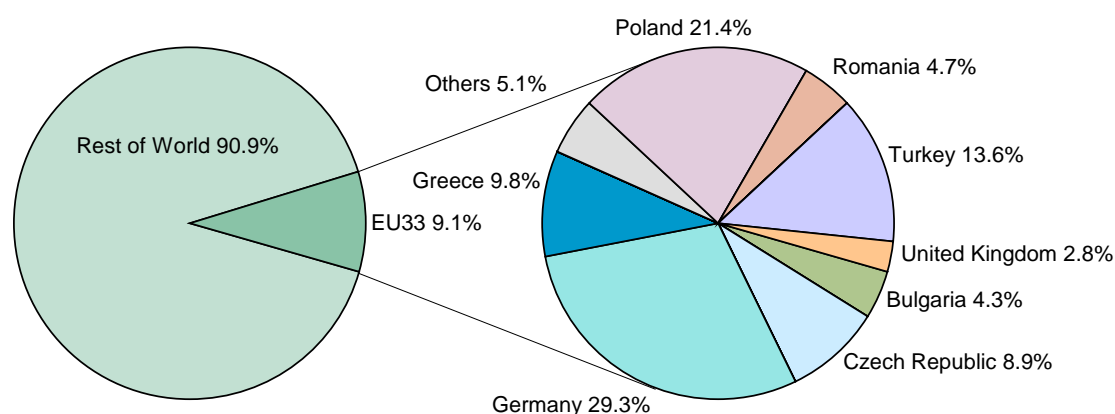
Chromium metal - EU33 trade in 2009



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 2009 the EU33 countries produced 9.1 per cent of the world's coal (all types) of which more than half was contributed by Germany and Poland. China, the world's largest coal producer, has seen an increase in production of 38 per cent between 2005 and 2009, and now accounts for 44 per cent of the world total.

EU33 Production of coal 2009



Production of coal

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Brown coal & lignite (a)	13 931	7 854	—	—	—
Bulgaria					
Lignite	22 146 100	22 749 500	25 325 000	26 007 800	25 014 800
Brown coal	2 469 200	2 556 900	2 833 500	2 643 200	2 243 800
Czech Republic					
Bituminous	12 778 000	13 017 000	12 462 000	12 197 000	10 621 000
Lignite	467 000	459 000	437 000	416 000	262 000
Brown coal	48 658 000	48 915 000	49 134 000	47 456 000	45 354 000
Germany					
Anthracite & Bituminous	28 018 000	23 762 000	24 185 000	19 143 000	14 971 000
Brown coal	177 907 945	176 324 117	180 409 054	175 313 020	169 857 142
Greece					
Lignite	70 600 000	64 800 000	66 100 000	64 521 000	61 800 000
Hungary					
Lignite	8 153 968	8 467 220	8 351 563	8 041 168	8 026 587
Brown coal	1 426 000	1 431 700	1 450 400	1 386 140	952 000
Macedonia					
Lignite	6 879 726	6 650 182	6 569 220	7 669 103	7 395 915
Norway					
Bituminous (b)	1 667 000	2 359 000	3 223 000	3 429 000	2 437 000
Poland					
Bituminous	97 903 730	95 222 512	88 313 369	84 345 443	78 064 462
Lignite	61 636 445	60 844 278	57 537 727	59 668 166	57 108 304
Romania					
Anthracite & Bituminous	3 079 000	—	—	—	—
Lignite	28 491 480	32 753 526	35 671 000	34 529 000	(c)* 30 000 000
Brown coal	62 609	* 58 000	97 000	205 000	...

Coal

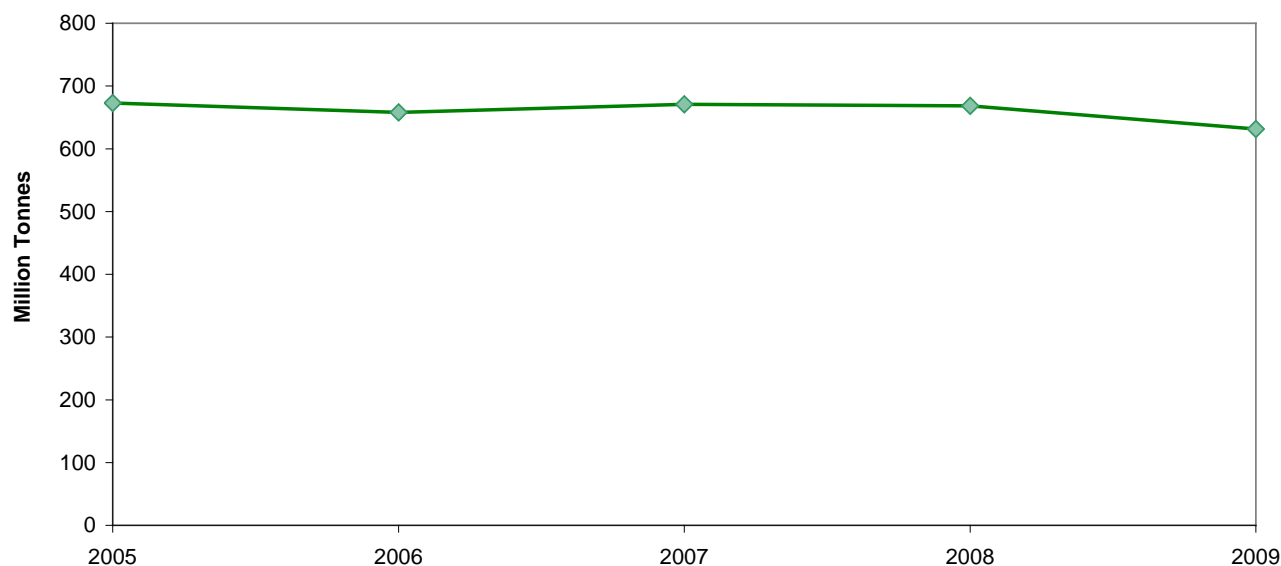
Production continued					tonnes
Country	2005	2006	2007	2008	2009
Slovakia					
Lignite	35 000	6 000	20 000	87 000	115 000
Brown coal	2 268 000	2 016 000	1 839 000	2 075 000	2 106 000
Slovenia					
Lignite	3 945 100	3 932 842	4 037 766	4 008 440	3 921 750
Brown coal	594 456	587 912	483 417	488 828	510 769
Spain					
Anthracite	3 888 838	3 775 504	3 485 083	3 152 550	4 060 194
Bituminous	4 664 589	4 572 350	4 387 416	4 085 652	2 891 839
Sub-bituminous	3 354 014	3 221 083	3 128 081	2 890 230	2 453 963
Lignite	7 587 113	6 859 641	6 112 946	—	—
Turkey					
Anthracite	2 785 505	3 070 793	3 230 787	3 343 409	3 773 603
Bituminous	737 701	* ...	...	...	...
Lignite	60 867 574	61 010 000	74 316 728	86 074 626	82 263 104
United Kingdom					
Bituminous (d)	20 498 000	18 517 000	17 070 000	18 053 000	17 874 000
EU33 Total	672 800 000	657 900 000	670 700 000	668 300 000	631 600 000

Note(s)

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

- (a) Coal; all forms
- (b) Spitzbergen: not including production from mines controlled by Russia
- (c) Including brown coal
- (d) Including anthracite

EU33 Production of coal 2005 - 09



Exports of coal

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Anthracite	1 463 646	1 521 523	1 454 115	1 400 377	675 097
Other coal	2 948 838	3 734 518	3 670 706	4 416 217	4 640 602
Briquettes	11 682	7 923	8 214	11 331	11 453
Bulgaria					
Hard coal (a)	3 920	5 372	17 358	36 095	11 511
Czech Republic					
Hard coal (a)	5 260 739	6 690 917	6 732 974	5 993 824	6 028 577
Lignite	1 324 025	1 300 406	1 076 140	1 561 097	1 207 715
Briquettes	148 966	213 621	...	75 459	93 479
Denmark					
Hard coal (a)	86 739	54 338	75 866	27 070	1 973 198
Estonia					
Hard coal (a)	9 054	3 164	2 035	...	20 296
France					
Anthracite	14 913	10 442	13 161	57 436	5 272
Other coal	68 197	128 523	200 682	128 614	91 266
Germany					
Anthracite	...	...	7 444	16 575	179 880
Other coal	251 623	305 046	309 501	518 629	129 955
Lignite	73	27 801	140 400	425 680	523 720
Briquettes	74 952	83 990	72 008	370 211	493 552
Greece					
Hard coal (a)	11 673	15 852	25 717	8 426	4 799
Briquettes	51 752	23 465	12	25	—
Hungary					
Lignite	366 132	—	—	89 444	41 329
Ireland, Republic of					
Anthracite	501	3 791	30 451	...	2
Other coal	9 800	6 382	4 395	6 158	3 861
Briquettes	13 103	4 823	...	6 508	9 858
Italy					
Hard coal (a)	66 115	38 239	41 075	31 201	29 473
Lithuania					
Hard coal	...	499	4 599	7 685	10 915
Netherlands					
Anthracite	165 918	196 407	158 572	109 516	78 064
Other coal	8 445 919	11 940 024	14 089 233	6 399 941	5 154 853
Poland					
Anthracite	23 331	31 200	30 256	16 173	5 282
Other coal	20 816 121	16 586 467	11 761 743	7 775 799	8 368 190
Lignite	8 211	317	—	1 009	68 273
Romania					
Hard coal (a)	661	7 997	67 304	5 331	19 771
Slovakia					
Hard coal (a)	33 608	33 665	26 600	30 131	122 287
Slovenia					
Lignite	6 881	29 794	2 150	377	4 615
Spain					
Anthracite	49 563	74 826	101 968	186 293	123 114
Other coal	8 208	135 401	872 269	1 636 071	1 252 923
Briquettes	1	53	...	21 735	193
Turkey					
Anthracite	10 324	1 259	—	1 043	194
United Kingdom					
Anthracite	169 252	137 353	123 549	165 473	119 472
Other coal	380 426	354 281	419 193	742 582	391 414
Lignite	2 321	2 748	1 965	2 334	2 186
Briquettes	20 713	20 037	27 591	52 605	68 226

Note(s)

(1) This table excludes bunker shipments

(a) Including anthracite

Coal

Imports of coal

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Hard coal (a)	4 108 821	3 912 731	4 509 917	4 118 906	4 082 877
Lignite	2 139	2 294	53 331	46 392	72 734
Briquettes	96 318	101 162	13 045	26 474	30 538
Belgium-Luxembourg					
Anthracite	3 293 344	2 608 840	2 864 554	3 999 349	1 453 024
Other coal	8 997 265	10 534 424	9 679 689	10 252 899	5 890 867
Lignite	229 192	279 982	278 700	372 271	263 260
Briquettes	14 120	29 848	26 260	21 776	32 151
Bulgaria					
Anthracite	2 016 911	2 170 631	2 229 619	2 841 458	1 938 000
Other coal	1 853 556	2 221 526	2 415 165	2 054 649	1 130 146
Briquettes	986	61	112 769	66 678	10 238
Croatia					
Hard coal (a)	957 899	1 082 446	1 101 803	1 189 379	712 873
Lignite	77 959	78 226	62 789	58 417	47 504
Briquettes	4 733	6 084	2 604	2 796	1 730
Cyprus					
Hard coal (a)	3	23 473	56 896	46 258	28 911
Czech Republic					
Anthracite	43 713	61 255	45 114	39 211	24 054
Other coal	1 192 214	1 896 977	2 507 091	2 181 691	1 761 947
Lignite	1 371	24 412	33 472	33 579	36 617
Briquettes	853	23 837	1 393	18 654	60 962
Denmark					
Anthracite	52 143	85 883	47 233	45 282	12 593
Other coal	5 881 938	9 234 248	8 034 596	7 412 557	6 423 923
Briquettes	15 865	511	194	1 000	455
Estonia					
Hard coal (a)	53 647	95 079	175 599	123 194	30 413
Finland					
Hard coal (a)	4 724 392	6 683 990	6 669 717	5 671 385	5 937 153
France					
Anthracite	3 266 840	3 018 025	3 532 378	2 817 048	1 914 614
Other coal	16 234 759	16 372 754	15 425 960	18 470 782	13 893 343
Lignite	34 396	36 436	51 589	68 426	51 577
Briquettes	116 845	147 381	175 350	154 140	151 863
Germany					
Anthracite	991 877	2 499 908	4 353 426	4 137 690	3 893 429
Other coal	29 452 512	35 218 836	37 993 445	37 215 220	30 926 568
Lignite	9 890	10 070	15 411	39 248	37 839
Briquettes	110 971	128 877	96 169	70 400	132 895
Greece					
Anthracite	35 475	39 250	59 007	41 475	37 585
Other coal	724 600	461 181	382 933	288 441	138 831
Lignite	0	50	3 029	35 457	48 841
Briquettes	1 803	1 382	1 144	111	5 827
Hungary					
Hard coal	1 298 122	(a) 1 765 117	1 950 139	1 893 076	(a) 1 340 769
Lignite	710 417	686 862	572 742	767 480	413 094
Briquettes	14 310	15 416	13 589	16 093	17 519
Iceland					
Anthracite	103 401	91 545	107 686	91 576	104 094
Other coal	13 556	6	31 882	6 609	9 903
Ireland, Republic of					
Anthracite	60 325	68 190	33 175	47 392	53 413
Other coal	2 641 074	1 908 618	1 830 979	2 169 185	1 721 651
Briquettes	35 959	96 279	14 271	19 049	40 482
Italy					
Anthracite	369 840	282 831	406 331	490 757	210 384
Other coal	24 714 768	24 860 362	25 111 043	25 745 375	20 165 036
Briquettes	9 136	10 207	6 921	5 392	7 786
Latvia					
Hard coal (a)	115 720	159 787	153 806	169 211	136 277
Lithuania					
Hard coal (a)	290 058	391 032	356 342	382 695	215 439

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Macedonia					
Hard coal (a)	98 024	179 193	199 946	214 078	85 660
Briquettes	188 634	103 508	63 805	56 640	9 207
Netherlands					
Anthracite	186 936	218 516	62 577	79 784	8 005
Other coal	21 958 859	21 368 119	24 622 621	17 843 689	14 084 993
Lignite	30 769	22 548	29 517	5 265	29 239
Briquettes	51 100	83 734	68 765	53 432	53 030
Norway					
Anthracite (b)	92 673	55 914	76 744	81 955	54 199
Other coal (b)	575 921	472 129	(c)* 527 000	(c)* 538 000	(c)* 367 000
Briquettes	282	349	706	24 406	1 074
Poland					
Anthracite	263 929	295 026	449 362	553 152	310 290
Other coal	3 112 462	4 866 783	5 442 327	9 531 959	10 362 090
Lignite	0	4 406	8 946	18 057	30 307
Briquettes	2 118	3 932	...	10 960	25 788
Portugal					
Anthracite	48 785	30 688	44 447	48 793	28 472
Other coal	5 386 968	5 630 721	4 733 158	3 721 513	4 922 698
Romania					
Anthracite	82 683	60 272	68 924	110 484	56 296
Other coal	3 681 406	3 398 344	4 421 709	3 008 391	937 077
Lignite	367 781	620 251	575 514	121 227	62 469
Briquettes	282	95	237 051	148 890	102 372
Slovakia					
Anthracite	112 482	38 147	176 682	258 597	264 286
Other coal	5 249 848	4 411 685	4 802 258	4 253 530	3 828 520
Lignite	704 690	889 241	725 586	983 151	693 786
Briquettes	33 067	12 150	5 813	6 733	7 877
Slovenia					
Hard coal (a)	51 173	47 221	83 100	74 508	33 143
Lignite	543 465	614 851	567 139	833 308	507 013
Spain					
Anthracite	2 534 019	2 508 261	1 019 341	957 293	767 027
Other coal	22 222 316	21 196 872	23 420 766	20 010 533	15 967 793
Sweden					
Anthracite	13 013	28 506	25 832	36 163	20 373
Other coal	3 187 798	3 003 919	3 154 331	2 811 668	1 831 397
Briquettes	8 443	27 164	287	9 029	33
Switzerland					
Anthracite	6 640	7 978	9 539	18 721	5 444
Other coal	93 584	143 425	214 684	132 824	172 990
Lignite	34 897	86 762	84 654	80 814	66 483
Briquettes	5 137	4 584	3 908	3 986	4 933
Turkey					
Anthracite	413 333	502 178	530 393	707 425	457 575
Other coal	16 126 628	14 658 368	13 850 371	18 781 879	19 501 679
United Kingdom					
Anthracite	187 388	125 011	135 941	213 318	207 327
Other coal	43 890 778	49 544 012	43 024 560	43 038 043	36 553 574
Briquettes	6 554	9 995	6 501	14 131	9 021

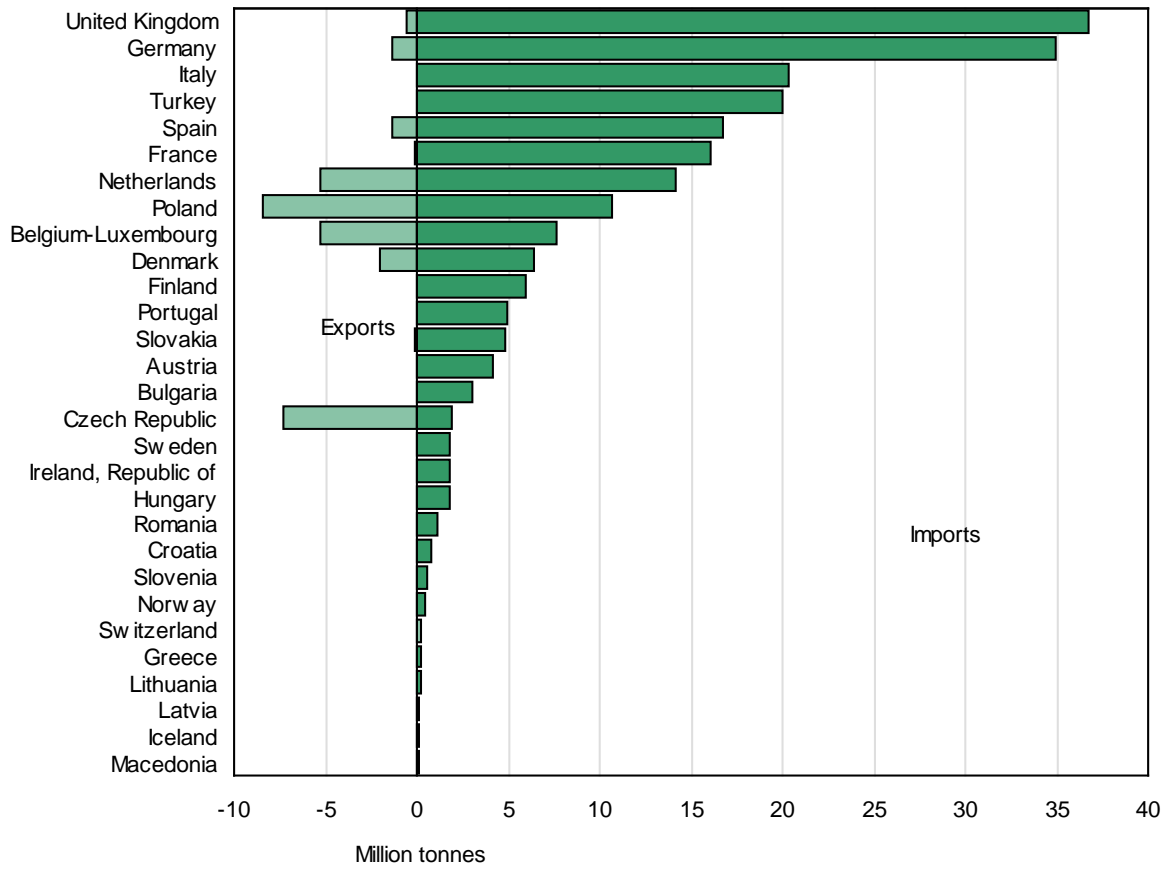
Note(s)

(a) Including anthracite

(b) Excludes coal imported from Spitzbergen

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

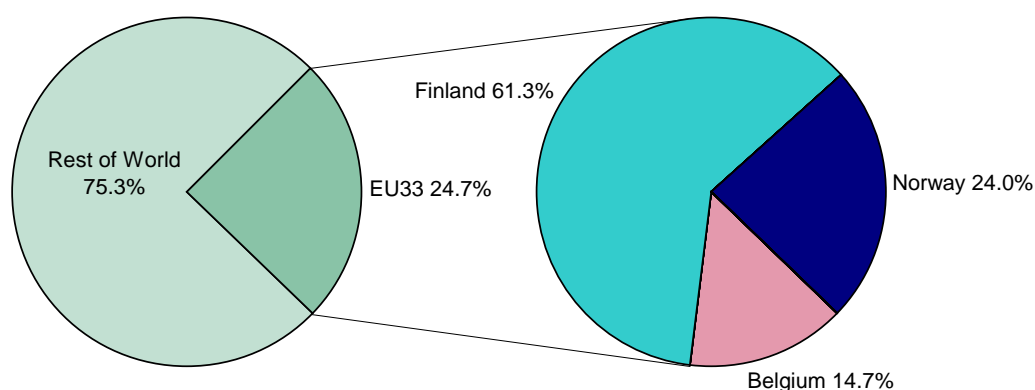
Coal - EU33 trade in 2009



Cobalt

- Cobalt is a lustrous, greyish-silver, brittle metal. It is also very hard and can take a high polish. It retains its strength at high temperatures and is ferromagnetic, which means it is capable of being magnetised. Cobalt is extensively used as an alloying metal and is valued for its ability to produce very hard superalloys with useful magnetic properties and resistance to high temperatures. It is also used in the manufacture of chemical compounds for a wide range of industrial uses, in rechargeable batteries and as a pigment in glass, enamels, pottery and china.
- Democratic Republic of Congo was the largest world producer of mined cobalt in 2009, with 55 per cent of the world total. Zambia, Australia, Canada and Cuba also produced between five and nine per cent each. Within the EU33, Finland produces a very small amount of mined cobalt.
- China was the world's largest producer of cobalt metal, producing 39 per cent of the world total in 2009, up from 24 per cent in 2005. Finland was the second largest world producer, with 15 per cent. Altogether, the EU33 contributed 24.7 per cent to the world's total output of cobalt metal.

EU33 Production of cobalt metal 2009



Production of cobalt metal

tonnes

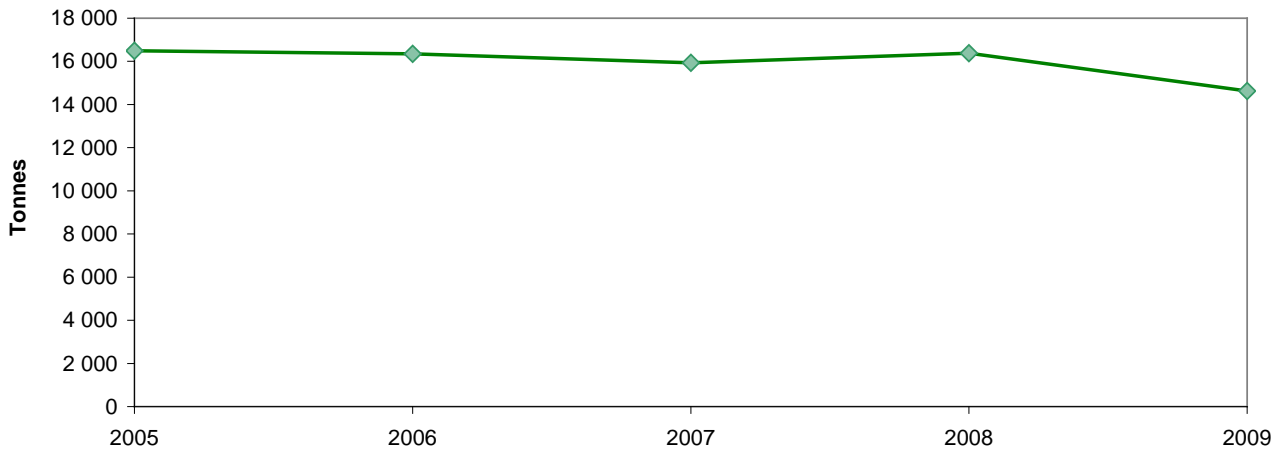
Country	2005	2006	2007	2008	2009
Belgium (a)	3 298	2 840	2 825	3 020	2 150
Finland	8 171	8 582	9 173	9 645	8 962
Norway	5 021	4 927	3 939	3 719	3 510
EU33 Total	16 500	16 300	15 900	16 400	14 600

Note(s)

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

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

EU33 Production of cobalt metal 2005 - 09



Exports of cobalt

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal	5	10	19	31	60
Belgium-Luxembourg					
Ore	543	197	1 204	1 112	1 227
Metal	(a)* 3 100	4 329	5 104	4 393	2 714
Oxides (a)	* 5 500	* 5 800	* 6 000	* 7 000	* 4 600
Finland					
Metal (a)	* 5 800	* 5 700	* 5 700	* 5 700	* 4 500
Oxides (a)	* 1 700	* 2 200	* 2 400	* 2 600	* 3 100
France					
Metal	699	709	1 006	859	706
Oxides	57	68	91	28	50
Germany					
Ore	171	...	457	145	103
Metal	1 395	1 602	2 067	1 588	1 067
Oxides	185	140	158	158	69
Ireland, Republic of					
Metal	42	43	45	47	145
Oxides	—	38	152	0	—
Italy					
Metal	97	224	168	220	205
Oxides	63	77	223	235	141
Netherlands					
Metal	1 326	587	1 579	1 090	353
Oxides	1 323	112	127	959	65
Norway					
Metal	4 997	4 990	4 030	3 731	3 550
Poland					
Oxides	3	3	5	24	64
Slovenia					
Metal	42	16	31	24	50
Spain					
Oxides	59	30	56	7	33
Sweden					
Metal	127	110	152	67	285
Switzerland					
Metal	140	105	94	120	70
United Kingdom					
Metal	1 471	1 695	2 300	2 614	2 572
Oxides	994	750	689	798	891

Note(s)

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

Imports of cobalt

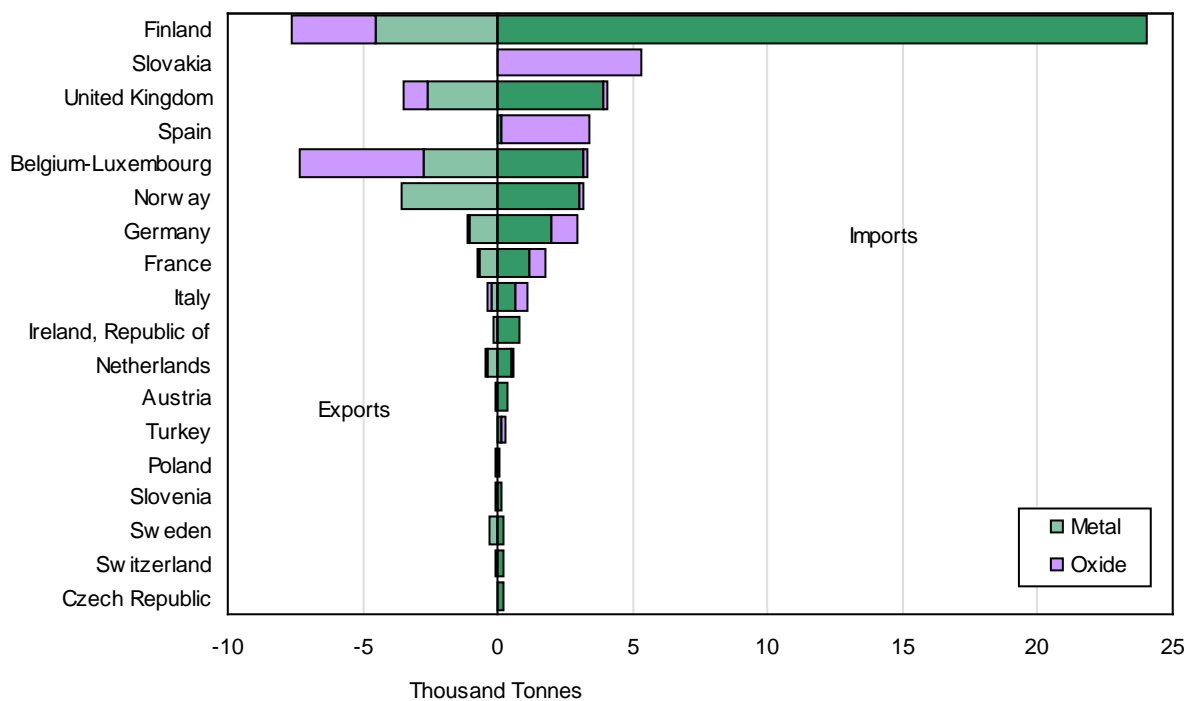
tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal	694	438	631	740	331
Oxides	5	7	4	40	5
Belgium-Luxembourg					
Ore	263	107	153	222	274
Metal (a)	* 4 700	* 4 300	* 6 600	* 4 600	* 3 200
Oxides (a)	* 1 300	* 600	* 600	* 600	* 100
Czech Republic					
Metal	75	84	108	199	220
Finland					
Ore	54 794	31 186	26 449	26 500	15 146
Metal	13 611	26 928	27 590	36 405	24 002
Oxides	336	186	346	167	46
France					
Metal	2 038	2 117	3 137	2 251	1 203
Oxides	474	562	658	574	578
Germany					
Metal	2 990	3 532	3 150	2 921	2 017
Oxides	542	759	898	1 057	902
Greece					
Metal	31	30	42	123	14
Ireland, Republic of					
Ore	28	35	571	36	28
Metal	390	464	298	622	777
Oxides	13	43	7	4	30
Italy					
Metal	468	587	626	703	632
Oxides	1 128	1 161	1 682	561	473
Netherlands					
Metal	1 532	1 511	1 270	1 124	* 491
Oxides	351	269	489	244	54
Norway					
Metal	5 775	6 362	3 871	3 131	3 012
Oxides	9	2	...	...	155
Poland					
Metal	35	52	69	51	53
Oxides	121	63	18	30	15
Slovakia					
Metal	5	13	37	1 020	19
Oxides	4	...	0	0	5 327
Slovenia					
Metal	209	209	96	93	149
Spain					
Metal	158	180	121	131	135
Oxides	1 352	1 254	1 187	1 038	3 294
Sweden					
Metal	660	743	676	698	189
Switzerland					
Metal	423	408	454	386	243
Turkey					
Metal	167	186	176	148	125
Oxides	139	165	142	152	150
United Kingdom					
Ore	6	74	59	72	200
Metal	3 888	4 427	5 422	5 395	3 928
Oxides	107	195	180	138	168

Note(s)

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

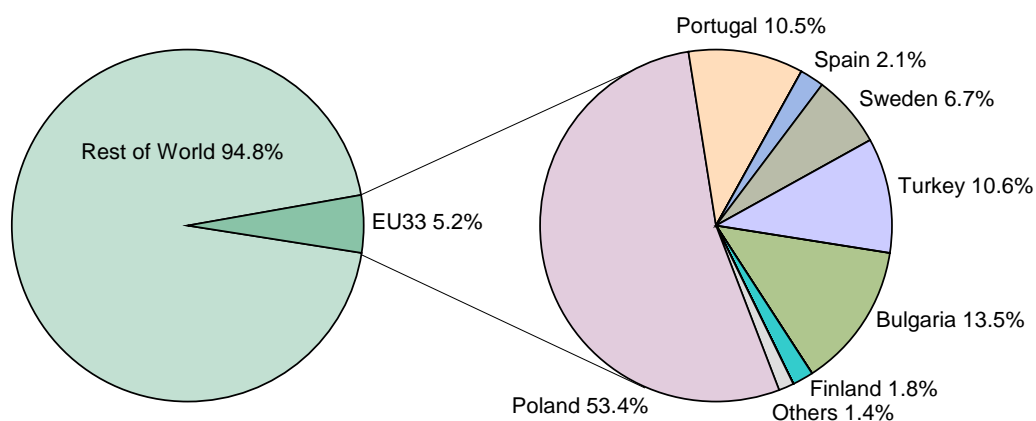
Cobalt - EU33 trade in 2009



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.
- World mine production in 2009 was dominated by Chile (34 per cent) although copper is mined in many countries. Chile (18 per cent of total) was the second largest refined copper producer in the world after China (22 per cent). The EU33 countries contributed 5.2 per cent to the world mined copper total and 14 per cent to world refined copper production. Poland was the largest mine producer in the EU33 and second largest refined metal producer, after Germany where refined copper production is based on imported materials.

EU33 Mine production of copper 2009

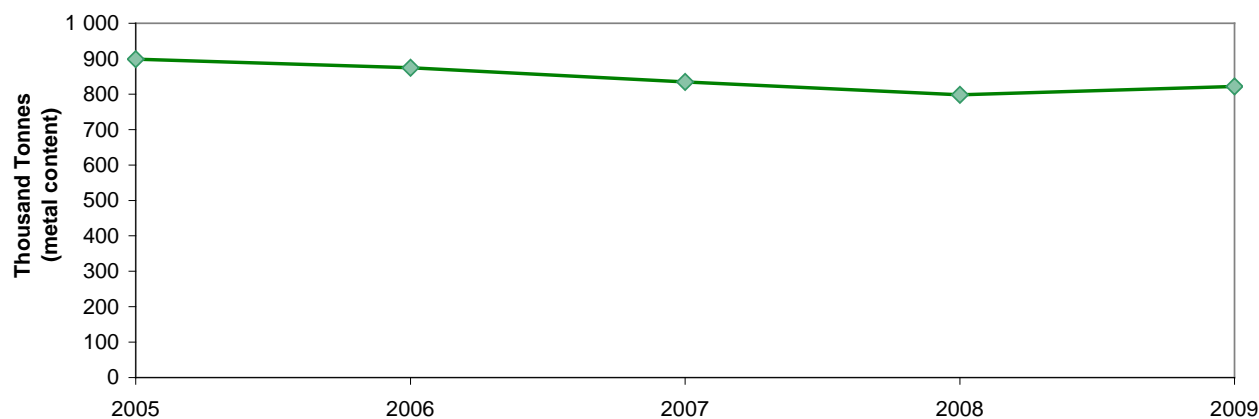


Mine production of copper

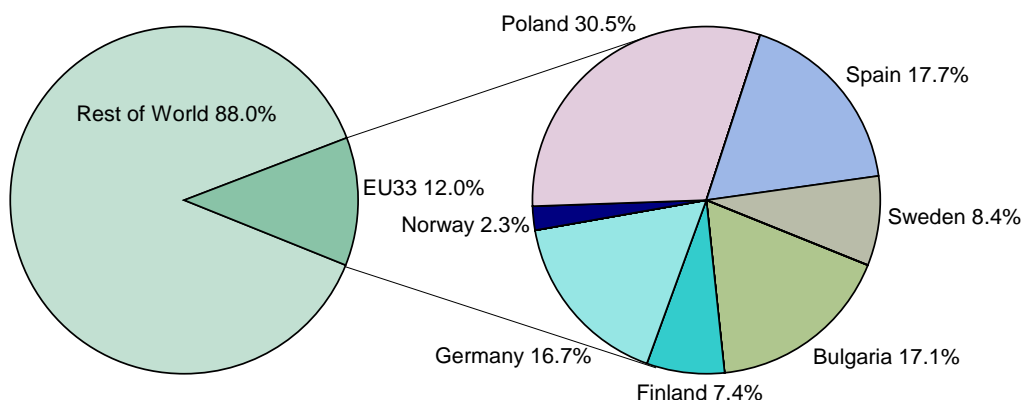
tonnes (metal content)

Country	2005	2006	2007	2008	2009
Bulgaria	112 536	123 571	116 157	107 195	110 652
Cyprus	—	900	2 900	3 000	2 500
Finland	15 000	13 000	13 600	13 300	14 600
Macedonia	4 799	7 054	7 029	8 051	7 440
Poland	511 799	497 200	451 900	429 687	439 000
Portugal	89 541	78 576	90 182	89 026	86 462
Romania	16 286	12 535	2 213	308	1 200
Spain	7 358	8 700	6 281	7 071	17 663
Sweden	87 068	86 746	62 905	57 688	55 414
Turkey	54 100	46 400	81 400	83 000	87 070
EU33 Total	1 898 000	1 875 000	835 000	798 000	822 000

EU33 Mine production of copper 2005 - 09



EU33 Smelter production of copper 2009



Smelter production of copper

tonnes

Country	2005	2006	2007	2008	2009
Bulgaria	225 000	217 000	217 600	257 100	256 200
Finland	157 933	164 306	118 911	142 154	110 479
Germany	257 200	273 800	270 200	295 000	251 000
Norway	38 681	39 700	34 200	37 000	33 900
Poland	555 681	555 907	518 303	492 942	457 510
Spain	284 215	263 662	257 348	259 897	264 971
Sweden	168 763	129 951	148 835	136 409	125 398
Turkey	27 700	26 300	17 900	38 000	—
EU33 Total	1 715 000	1 671 000	1 583 000	1 659 000	1 499 000

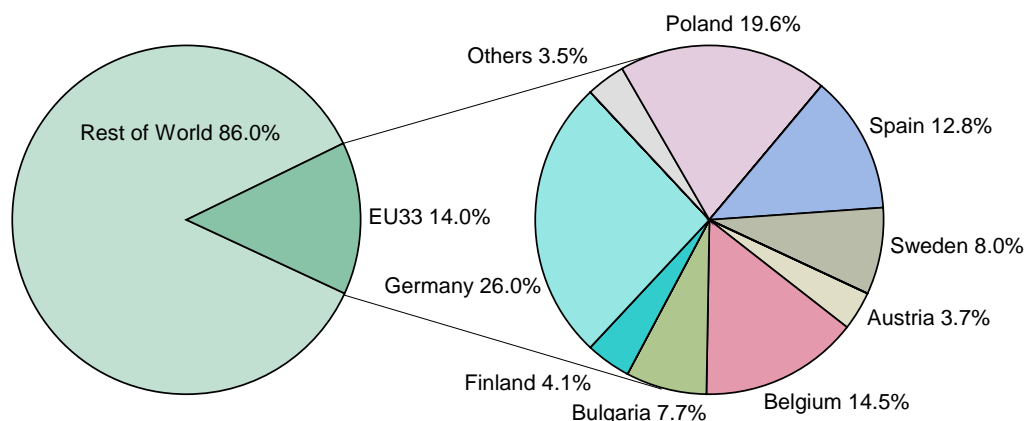
Note(s)

(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

EU33 Smelter production of copper 2005 - 09



EU33 Production of refined copper 2009



Production of refined copper

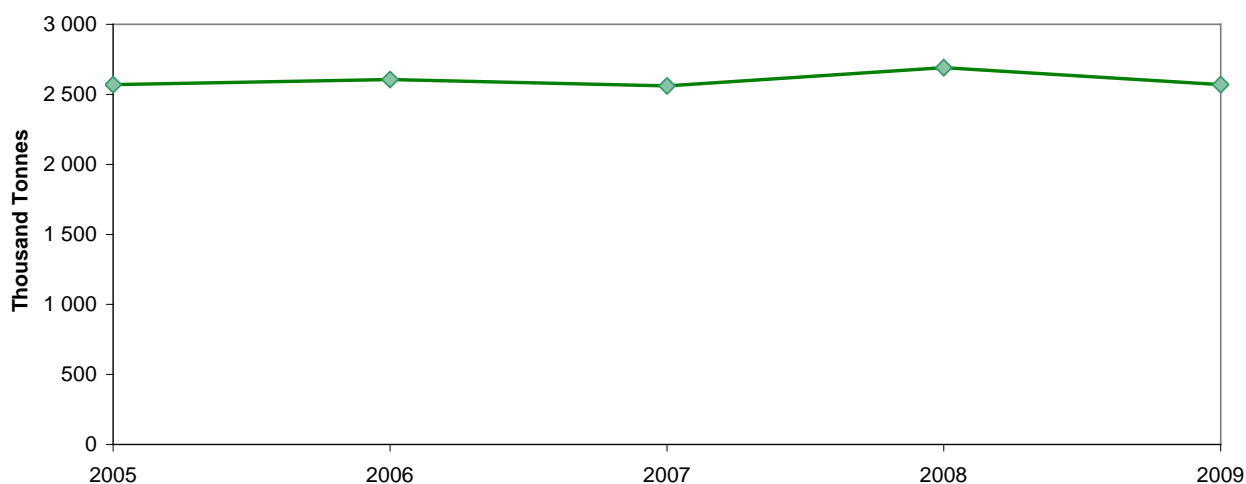
tonnes

Country	2005	2006	2007	2008	2009
Austria	72 300	72 600	81 400	106 700	96 200
Belgium	382 900	378 600	394 000	395 800	373 700
Bulgaria	60 500	65 500	69 900	126 700	196 900
Cyprus	—	880	3 012	2 986	2 380
Finland	132 126	137 961	109 870	131 249	105 549
Germany	638 800	662 338	665 517	689 763	668 945
Italy	32 200	36 400	28 600	24 200	6 500
Norway	38 681	39 700	34 200	37 000	33 900
Poland	560 256	556 625	532 975	526 808	502 491
Romania	20 739	21 583	18 589	15 300	14 500
Spain	313 105	299 146	308 372	319 050	329 356
Sweden	223 482	229 241	213 894	227 774	205 759
Turkey	94 900	105 800	99 600	88 000	33 500
EU33 Total	2 570 000	2 606 000	2 560 000	2 691 000	2 570 000

Note(s)

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

EU33 Production of refined copper 2005 - 09



Copper

Exports of copper

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Matte & cement	2 901	651	2 323	719	3 109
Unwrought	83 750	84 104	82 985	114 978	115 697
Unwrought alloys	604	2 509	1 239	938	1 058
Scrap	33 274	39 169	38 642	35 582	50 748
Belgium-Luxembourg					
Ores & concentrates	1 887	1 778	1 061	2 155	4 594
Matte & cement	401	1 026	1 104	4 139	2 432
Unwrought, unrefined	4 499	8 833	10 730	10 534	11 571
Unwrought, refined	241 363	236 804	199 650	257 907	248 501
Unwrought alloys	14 463	13 419	15 081	12 929	9 264
Scrap	177 787	163 418	194 666	164 502	112 142
Bulgaria					
Ores & concentrates	124 717	193 389	168 155	105 889	134 910
Matte & cement	5 750	4 818	6 335	3 559	4 749
Unwrought	219 009	210 520	185 012	252 018	226 404
Scrap	8 244	13 163	11 590	10 547	10 717
Croatia					
Scrap	10 814	12 105	12 378	10 884	10 202
Cyprus					
Unwrought	...	879	3 006	2 986	2 449
Scrap	2 548	2 684	2 122	2 381	3 400
Czech Republic					
Unwrought	4 251	12 651	10 301	7 829	14 645
Scrap	53 707	57 152	58 534	63 825	105 230
Denmark					
Scrap	27 227	31 076	31 569	33 421	31 711
Estonia					
Scrap	6 660	11 801	7 784	8 185	5 633
Finland					
Unwrought, unrefined	29 685	34 962	10 490	27 525	37 084
Unwrought, refined	40 170	55 239	32 956	67 908	40 864
Unwrought alloys	746	1 533	587	423	275
Scrap	30 577	31 182	32 872	32 585	32 762
France					
Matte & cement	31	79	331	...	720
Unwrought	48 050	47 839	67 765	55 405	60 428
Unwrought alloys	9 851	9 680	13 140	13 049	9 455
Scrap	262 874	290 528	284 890	266 930	235 277
Germany					
Ores & concentrates	46 139	54 167	61 535	48 234	58 932
Matte & cement	536	101	24	2	1
Unwrought, unrefined	232	3 244	105	182	88
Unwrought, refined	149 083	146 137	117 596	124 980	194 016
Unwrought alloys	20 232	22 941	22 436	16 485	9 781
Scrap	439 134	465 264	480 700	478 643	449 990
Greece					
Unwrought, refined	1 242	2 541	1 944	356	2 748
Unwrought alloys	365	1 142	995	1 198	1 071
Scrap	15 126	16 889	14 669	12 314	15 742
Hungary					
Unwrought alloys	...	...	...	989	314
Scrap	34 861	27 051	23 394	20 958	19 120
Iceland					
Scrap	795	—	420	199	112
Ireland, Republic of					
Ores & concentrates	3	922	1 024	49	—
Scrap	13 152	15 784	9 836	21 421	23 305
Italy					
Matte & cement	107	1 511	2 244	911	90
Unwrought	6 387	13 567	22 424	13 381	30 548
Unwrought alloys	14 128	14 620	20 830	15 268	12 787
Scrap	110 711	102 463	120 231	148 923	158 062
Latvia					
Unwrought	503	2 734	3 272	4 117	2 518
Scrap	9 207	7 116	7 309	6 900	6 138

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Lithuania					
Scrap	5 821	5 020	4 814	4 675	3 375
Macedonia					
Ores & concentrates	21 441	31 547	32 224	...	...
Scrap	1 926	3 190	2 277	2 302	2 029
Malta					
Scrap	1 242	1 036	1 790	1 890	1 828
Netherlands					
Unwrought	39 638	31 204	49 300	65 343	29 260
Scrap	207 551	306 132	229 090	241 332	143 329
Norway					
Unwrought	37 430	38 232	34 007	36 734	32 927
Unwrought alloys	1 707	1 141	1 161	756	570
Scrap	22 667	24 205	24 066	22 561	25 339
Poland					
Matte & cement	3 673	6 774	2 187	2 989	1 515
Unwrought	290 462	287 666	239 508	296 738	325 395
Unwrought alloys	6 183	6 205	6 397	5 469	2 358
Scrap	47 463	55 285	64 377	63 779	64 606
Portugal					
Ores & concentrates	375 312	328 296	399 589	375 755	371 881
Unwrought	9 356	918	227	600	2 098
Scrap	33 583	29 736	24 566	22 184	20 213
Romania					
Ores & concentrates	84 084	72 900	23 689	33 391	6 711
Matte & cement	...	2 818	11 569	8 494	4 502
Scrap	22 665	41 911	35 856	39 733	42 148
Slovakia					
Unwrought	19 130	27 178	34 232	35 141	29 972
Scrap	14 752	18 821	23 502	21 144	15 114
Slovenia					
Unwrought	72	244	163	244	1 376
Scrap	13 054	15 922	17 810	15 606	17 991
Spain					
Ores & concentrates	14 434	5 835	905	463	110 724
Unwrought, unrefined	62 269	45 906	37 210	41 676	38 761
Unwrought, refined	44 365	38 205	48 288	85 899	108 716
Unwrought alloys	9 810	10 590	12 679	12 139	12 150
Scrap	99 600	84 570	88 429	83 820	100 498
Sweden					
Unwrought, refined	99 824	86 726	65 926	70 047	77 739
Unwrought alloys	5 247	6 443	8 837	5 610	3 181
Scrap	43 816	45 456	54 673	57 245	55 603
Switzerland					
Unwrought	1 069	1 036	1 002	1 159	623
Scrap	74 878	74 079	75 542	82 687	71 204
Turkey					
Ores & concentrates	145 118	68 286	36 046	251 958	356 922
Unwrought	13 524	13 876	11 813	41 780	6 742
Scrap	15 083	12 630	8 920	9 670	16 426
United Kingdom					
Matte & cement	41	515	16	28	14
Unwrought, unrefined	271	153	786	3 066	205
Unwrought, refined	15 982	5 969	8 489	4 850	14 059
Unwrought alloys	15 013	17 251	18 142	17 822	11 839
Scrap	238 557	311 058	346 361	358 981	429 467

Note(s)

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

Copper

Imports of copper

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Unwrought, unrefined	20 081	26 508	26 678	39 590	24 445
Unwrought, refined	21 176	29 298	20 614	8 855	4 868
Unwrought alloys	2 260	2 979	2 485	1 866	1 617
Scrap	82 787	88 684	91 043	113 109	134 063
Belgium-Luxembourg					
Ores & concentrates	5 225	17 263	21 137	12 039	17 380
Matte & cement	370	1 112	6 360	4 485	36 357
Unwrought, unrefined	237 645	267 505	224 439	206 660	212 932
Unwrought, refined	9 515	21 818	28 746	54 463	79 524
Unwrought alloys	1 906	1 083	3 324	1 898	2 678
Scrap	257 738	300 260	328 676	258 551	222 735
Bulgaria					
Ores & concentrates	632 255	581 055	539 325	609 258	635 039
Matte & cement	562	5 003	10 025	34 997	15 160
Unwrought	18 613	19 735	28 226	30 422	8 016
Scrap	5 094	7 784	12 899	23 856	20 730
Czech Republic					
Unwrought	4 196	5 412	15 156	11 474	21 475
Unwrought alloys	355	2 909	3 755	3 862	3 050
Scrap	6 114	8 104	8 966	8 677	9 639
Denmark					
Unwrought	1 702	4 081	2 901	2 818	1 413
Scrap	13 827	14 646	9 187	11 235	10 388
Finland					
Ores & concentrates	504 658	544 149	448 119	536 584	352 370
Unwrought	35	21	2 777	2 490	16 298
Unwrought alloys	3 229	3 996	4 178	3 542	2 415
Scrap	2 423	1 259	2 644	4 146	7 349
France					
Unwrought, unrefined	248	275	328	125	59
Unwrought, refined	516 881	506 721	431 897	435 330	265 707
Unwrought alloys	10 132	11 029	14 389	8 987	7 980
Scrap	75 464	97 462	90 195	81 036	50 753
Germany					
Ores & concentrates	1 149 088	1 148 316	1 300 491	1 088 291	1 252 430
Matte & cement	25 931	30 463	14 880	10 102	4 133
Unwrought, unrefined	36 671	41 589	31 830	24 706	46 840
Unwrought, refined	624 688	881 427	844 747	833 354	658 703
Unwrought alloys	26 657	36 770	48 261	40 073	38 538
Scrap	432 147	552 413	595 751	563 560	454 753
Greece					
Unwrought	90 557	106 404	105 722	79 928	57 367
Unwrought alloys	488	4 439	6 855	9 393	305
Scrap	930	2 141	10 148	18 628	11 245
Hungary					
Unwrought	3 269	2 175	2 492	3 016	2 168
Scrap	399	571	1 405	5 933	10 091
Iceland					
Unwrought, refined	1 637	4 509	199	...	...
Ireland, Republic of					
Ores & concentrates	72	...	21	30 176	42 945
Italy					
Unwrought, unrefined	955	323	796	370	438
Unwrought, refined	652 089	774 140	746 482	617 420	544 197
Unwrought alloys	8 053	15 174	24 996	18 531	8 166
Scrap	124 737	214 289	177 546	167 212	91 519
Latvia					
Unwrought	606	1 199	1 396	3 609	3 049
Netherlands					
Unwrought, unrefined	10 485	18 333	18 130	26	2 678
Unwrought, refined	135 004	147 428	151 515	35 077	33 771
Unwrought alloys	1 904	2 214	3 379	2 440	1 329
Scrap	92 927	110 753	117 259	116 503	—
Norway					
Unwrought	3 190	3 133	3 650	3 133	1 627
Scrap	12 420	12 759	13 486	11 189	9 727

Imports continued

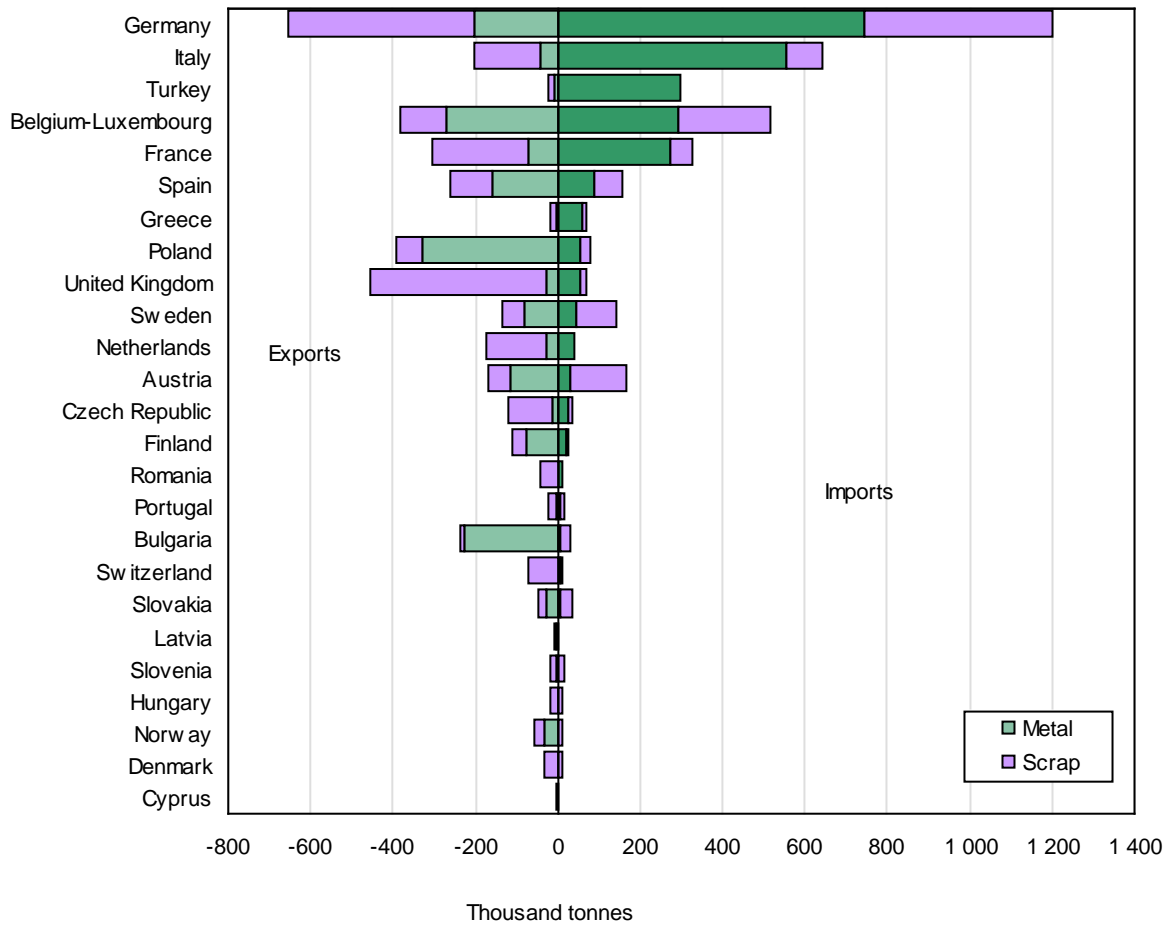
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Country	2005	2006	2007	2008	2009
Poland					
Ores & concentrates	43 504	112 708	61 319	62 443	78 027
Matte & cement	312	5 310	10 062	—	—
Unwrought, unrefined	3 363	31 609	23 880	33 376	40 030
Unwrought, refined	658	5 493	7 024	6 629	13 838
Unwrought alloys	3 097	3 797	4 516	3 012	2 408
Scrap	5 855	4 885	18 596	19 269	22 153
Portugal					
Unwrought	4 572	5 752	5 309	5 534	8 480
Scrap	3 329	5 946	8 503	10 229	7 550
Romania					
Unwrought	9 723	12 794	25 093	22 116	10 926
Scrap	1 528	2 946	1 710	4 197	437
Slovakia					
Matte & cement	4 342	1 071	...	...	3 300
Unwrought	1 718	2 084	1 557	4 120	4 685
Scrap	19 977	17 973	17 476	17 350	29 141
Slovenia					
Unwrought	2 764	3 150	2 809	2 649	2 826
Scrap	5 762	9 000	10 431	9 687	11 452
Spain					
Ores & concentrates	1 040 099	1 100 338	1 001 284	1 122 093	1 184 321
Unwrought, unrefined	312	2 631	1 032	3 733	3 133
Unwrought, refined	69 039	62 982	56 237	79 125	80 898
Unwrought alloys	4 458	5 898	5 417	4 352	3 473
Scrap	84 824	89 252	56 754	65 765	68 166
Sweden					
Ores & concentrates	311 085	267 753	420 050	393 295	362 803
Unwrought, unrefined	15 452	35 496	10 495	23 539	22 072
Unwrought, refined	40 106	41 036	31 535	21 123	23 107
Unwrought alloys	2 926	3 944	5 867	5 239	2 040
Scrap	50 940	54 483	81 015	91 839	96 542
Switzerland					
Unwrought	4 734	4 843	5 960	5 903	3 473
Unwrought alloys	3 897	4 695	4 089	3 925	3 276
Scrap	9 937	7 641	7 995	5 266	2 710
Turkey					
Ores & concentrates	44 633	18 111	32	3 884	—
Unwrought, unrefined	53 214	54 790	34 389	38 116	4 852
Unwrought, refined	223 978	150 412	128 077	287 705	289 672
Unwrought alloys	3 212	2 160	1 975	3 060	2 828
Scrap	10 104	6 602	3 013	1 263	870
United Kingdom					
Unwrought, unrefined	1 978	264	7 401	5 529	3 034
Unwrought, refined	181 767	183 727	46 820	47 716	45 249
Unwrought alloys	6 191	6 743	6 202	5 721	4 066
Scrap	42 264	19 744	21 852	21 132	18 549

Note(s)

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

Copper - EU33 trade in 2009



Diamond

- Diamond is a polymorph of carbon and is the hardest substance known. It is used mainly in jewellery, abrasives and cutting tools.
- Africa (chiefly Democratic Republic of Congo, Botswana and South Africa) dominates world production with 52 per cent of all carats produced in 2009. However, Russia is the world's largest producing country (29 per cent of world production). Australia and Canada are also significant diamond producers. There is no mine production of diamond in the EU33 but production of synthetic diamonds is important and Europe is a world centre for diamond trading.

Exports of diamond

Country	2005	2006	2007	2008	2009
carats					
Austria					
Unsorted	£188 000	£211 000	£85 000	£71 000	£189 000
Gem, cut	£2 895 000	£3 157 000	£2 792 000	£5 778 000	£4 053 000
Dust	£406 000	£45 000	£115 000	£165 000	£260 000
Belgium-Luxembourg					
Unsorted	£785 000	£889 000	...	£503 000	£2 292 000
Gem, rough	147 000 000	128 000 000	135 000 000	99 500 000	85 500 000
Gem, cut	5 500 000	4 500 000	8 035 000	5 950 000	5 178 000
Industrial	5 500 000	2 000 000	5 000 000	4 100 000	1 600 000
Dust	40 000 000	35 500 000	27 000 000	23 000 000	18 000 000
Czech Republic					
Gem, cut	£331 000	£451 000	£529 000	£3 947 000	£3 046 000
France					
Unsorted	14 853	40 105	22 863	9 386	8 723
Gem	98 712	164 433	227 372	293 420	394 845
Dust	1 273 515	1 069 100	430 000	838 620	45 000
Germany					
Unsorted	£756 000	£21 000	£112 000	£127 000	(a) *£776 000
Gem	169 535	175 658	157 055	153 893	125 735
Dust	42 628 300	27 074 465	3 366 830	3 410 935	2 560 000
Italy					
Gem, cut	119 462	105 514	131 174	1 830 000	1 480 000
Dust	49 139 151	18 028 081	65 975 744	10 865 000	1 370 000
Netherlands					
Unsorted	£928 000	£849 000	£1 000 000	£442 000	£494 000
Gem, cut	£8 690 779	£8 997 000	£6 214 000	£7 567 000	£3 780 000
Industrial	£842 000	£2 250 000	£1 891 000	£2 156 000	£1 415 000
Dust	£44 000	£61 000	£82 000	£45 000	£196 000
Portugal					
Gem, cut	£17 981 000	£8 000	£105 000	£55 000	£52 000
Spain					
Unsorted	£673 000	£531 000	£346 000	£503 000	£266 000
Gem, cut	£5 275 000	£61 119 000	£8 478 000	£6 631 000	£5 328 000
Industrial	£325 000	£331 000	£208 000	£498 000	£171 000
Dust	1 607 384	210 000	254 600	630 000	180 000
Switzerland					
Gem, rough	195 614	119 619	4 360	5 000	1 230
Gem, cut	500 591	543 079	559 591	360 000	75 000
Industrial	13 934	76 604	12 100	15 000	7 139
Dust	126 190 000	128 180 000	40 985 000	44 105 000	30 400 000
Turkey					
Dust	£29 000	£15 000	£28 000	£146 000	£128 000

Diamond

Exports continued

carats

Country	2005	2006	2007	2008	2009
United Kingdom					
Unsorted	16 818 545	3 544 216	5 307 857	3 388 395	4 090 534
Gem, rough	76 400 064	88 991 279	84 573 134	66 479 817	43 775 775
Gem, cut	5 330 874	2 341 635	477 463	795 612	257 202
Industrial	21 647 850	13 652 233	4 754 029	6 121 081	8 881 844
Dust	124 529 495	111 788 350	104 552 775	122 681 695	105 427 132

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
- (a) BGS estimates, based on known value of imports to certain countries

Imports of diamond

carats

Country	2005	2006	2007	2008	2009
Austria					
Unsorted	£1 218 000	£978 000	£957 000	£1 648 000	£543 000
Gem, cut	£5 743 000	£5 892 000	£6 405 000	£8 881 000	£9 795 000
Industrial	£706 000	£841 000	£884 000	£473 000	£313 000
Dust	23 000 000	28 000 000	26 000 000	33 000 000	17 000 000
Belgium-Luxembourg					
Unsorted	£37 971 000	£38 530 000	£32 612 000	£27 166 000	£27 288 000
Gem, rough	134 500 000	67 500 000	63 500 000	55 000 000	44 000 000
Gem, cut	6 500 000	6 000 000	29 500 000	91 500 000	109 500 000
Industrial	£46 159 000	£44 325 000	£35 072 000	£41 557 000	£24 632 000
Dust	£8 989 000	£7 464 000	£9 606 000	£13 140 000	£9 500 000
Bulgaria					
Dust	...	...	14 770 306	7 623 860	4 940 300
Cyprus					
Gem, cut	£690 000	£1 387 000	£1 311 000	£1 564 000	£1 724 000
Industrial	£750 000	£1 072 000	£1 042 000	£1 311 000	£587 000
Czech Republic					
Gem, cut	2 755	18 182	5 837	116 669	7 306
Industrial	27 453	30 377	43 006	30 181	7 640
Dust	£ 956 000	£867 000	£884 000	£1 369 000	£977 000
Denmark					
Unsorted	£597 000	£686 000	£928 000	£1 168 000	£40 000
Gem, cut	£6 506 000	£7 252 000	£8 473 000	£7 424 000	£4 680 000
Industrial	£81 000	£184 000	£388 000	£104 000	£223 000
Dust	696 038	769 511	1 056 203	791 502	10 000 000
Finland					
Gem, cut	£3 082 000	£3 264 000	£3 004 000	£3 698 000	£3 133 000
Dust	450 000	620 000	682 850	625 200	273 415
France					
Unsorted	263 542	45 393	32 997	18 648	15 326
Gem, rough	3 526	729	656	344	1 854
Gem, cut	355 505	331 348	439 204	450 568	691 852
Industrial	33 869	44 334	81 570	73 641	40 221
Dust	10 013 030	10 037 456	8 984 745	13 938 146	9 314 960
Germany					
Gem	443 747	487 354	515 262	709 636	299 771
Industrial	1 572 864	1 554 184	1 090 991	505 400	209 539
Dust	63 878 900	53 291 240	45 596 025	45 914 930	21 374 780
Greece					
Unsorted	9 570 000	20 035 000	7 000 000	116 000 000	1 000 000
Gem, rough	85 000	55 000	205 000	425 000	3 365 000
Gem, cut	10 375 000	10 075 000	9 470 000	2 815 000	6 370 000
Industrial	6 770 000	9 720 000	11 355 000	22 810 000	43 195 000
Dust	19 475 000	10 550 000	17 573 974	17 713 060 000	2 803 695 000

Imports continued

carats

Country	2005	2006	2007	2008	2009
Hungary					
Gem, cut	£849 000	£246 000	£52 000	£220 000	£167 000
Ireland, Republic of					
Unsorted	39 900 000	67 655 000	42 460 000	17 535 000	4 935 000
Gem, rough	3 815 000	4 140 000	4 365 000	3 240 000	1 885 000
Gem, cut	36 975 000	44 635 000	46 100 000	28 020 000	18 170 000
Industrial	30 680 000	70 840 000	35 720 000	10 560 000	2 100 000
Dust	30 924 437	200 868 966	233 626 080	232 059 616	86 782 073
Italy					
Unsorted	350 000	150 000	915 000	1 905 000	355 000
Gem, rough	115 000	75 000	80 000	10 000	25 000
Gem, cut	11 760 000	4 855 000	14 560 000	12 135 000	9 875 000
Industrial	1 110 000	650 000	880 000	1 145 000	675 000
Dust	141 970 000	152 680 000	161 010 000	252 290 000	121 055 000
Netherlands					
Unsorted	£344 000	£225 000	£299 000	£803 000	£551 000
Gem, rough	£79 000	£369 000	£320 000	£1 071 000	£95 000
Gem, cut	£16 550 000	£22 397 000	£13 943 000	£17 750 000	£10 757 000
Industrial	£2 027 000	£1 850 000	£859 000	£1 088 000	£613 000
Dust	2 919 740	3 998 115	1 089 105	791 805	426 830
Poland					
Industrial	43 583	31 323	150 918	237 903	169 851
Dust	4 042 100	* 3 200 000	3 149 550	27 584 081	263 119 707
Portugal					
Gem, cut	£7 015 000	£2 940 000	£3 435 000	£3 949 000	£1 756 000
Industrial	£565 000	£381 000	£427 000	£296 000	£246 000
Dust	3 816 540	4 641 090	8 473 445	5 891 661	5 514 973
Slovenia					
Dust	1 136 505	1 287 165	1 670 815	1 395 416	722 777
Spain					
Unsorted	£6 908 000	£4 616 000	£3 667 000	£1 959 000	£1 591 000
Gem, cut	£37 408 000	£47 084 000	£57 921 000	£40 012 000	£30 290 000
Industrial	£1 421 000	£2 701 000	£1 396 000	£1 485 000	£917 000
Dust	8 490 229	7 000 000	67 062 395	42 938 192	30 861 760
Sweden					
Unsorted	£220 000	£143 000	£141 000	£100 000	£23 000
Gem, cut	7 132	8 573	9 465	10 938	8 709
Industrial	198 724	188 546	224 486	217 127	6 907
Dust	5 000 000	10 000 000	11 500 000	4 000 000	1 500 000
Switzerland					
Gem, rough	195 180	118 710	8 634	11 566	4 498
Gem, cut	1 182 706	1 112 264	1 209 708	1 147 690	534 700
Industrial	100 219	63 939	39 174	20 205	23 178
Dust	142 135 000	127 740 000	59 930 000	54 445 000	39 130 000
Turkey					
Gem	124 043	112 906	135 413	141 553	51 740
Industrial	27 325	44 601	36 999	102 596	29 724
Dust	26 765 000	13 675 000	9 835 000	18 430 000	19 120 000
United Kingdom					
Unsorted	33 441 810	14 408 621	13 661 786	10 283 610	8 348 854
Gem, rough	78 735 595	78 790 692	81 195 314	59 534 653	44 064 081
Gem, cut	12 039 040	7 370 573	973 433	1 343 330	868 406
Industrial	25 367 064	11 884 651	7 524 168	5 127 610	6 643 340
Dust	125 510 400	199 882 920	198 484 150	187 268 975	88 148 090

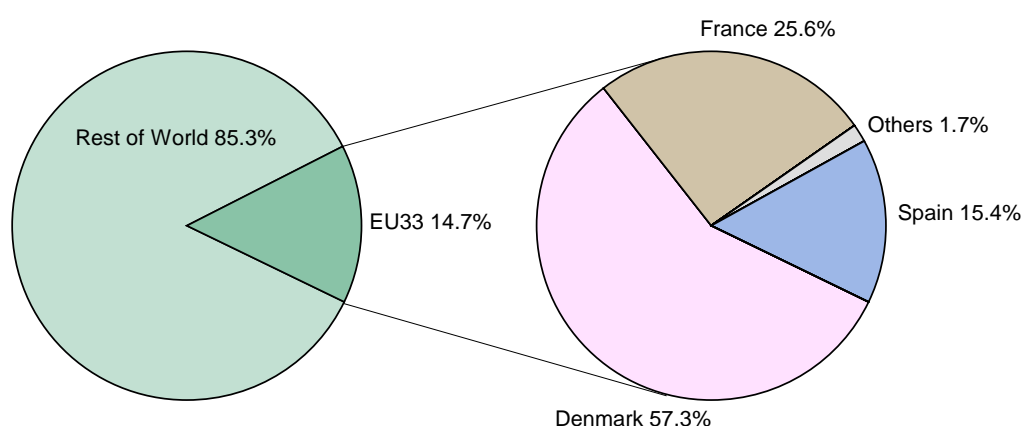
Note(s)

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

Diatomite

- Diatomite is a siliceous sedimentary rock composed of the skeletons of fossilised diatoms (microscopic plants). Clay content of the rock has a strong control on the quality of the diatomite. Diatomite is valued for its high porosity, chemical inertness and ability to absorb liquids. It is used in industry in high-quality filters and as an industrial absorbent.
- The USA is the largest producer of diatomite, with nearly 40 per cent of the world production, followed by China with 22 per cent. EU33 production amounted to 14.7 per cent of world production in 2009. Production in the EU33 countries is dominated by Denmark, which produces 57.3 per cent of EU33 output, although this is moler, an impure diatomite.

EU33 Production of diatomite 2009



Production of diatomite

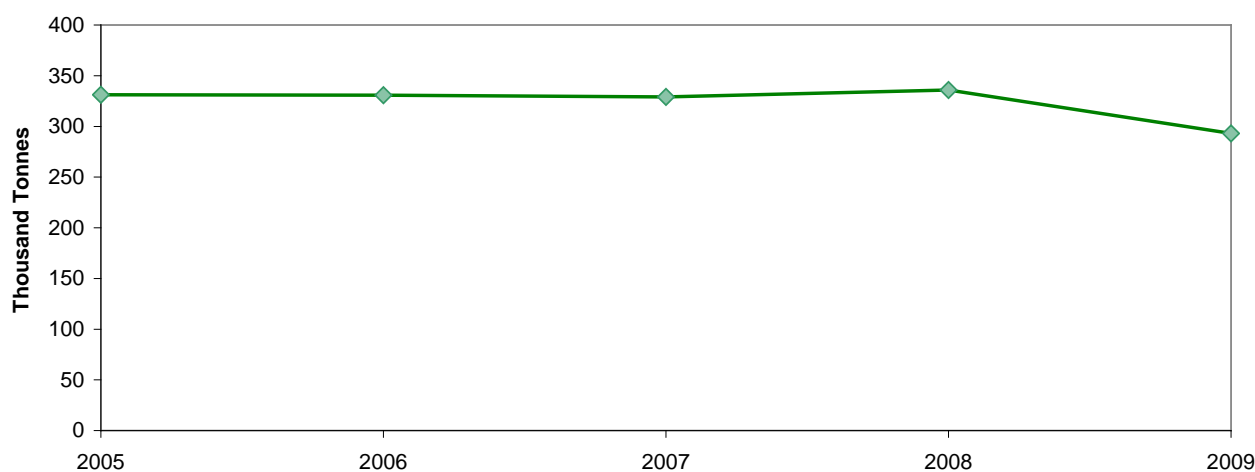
Country	2005	2006	2007	2008	2009
Czech Republic	4 100	4 827	3 600	4 100	3 100
Denmark					
Moler (a)	209 000	196 000	201 000	210 000	168 000
France	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Hungary	2 190	495	1 424	—	1 277
Poland	500	600	* 600	600	670
Romania	1 402	1 719	2 057	—	—
Spain (b)	39 101	52 123	45 480	46 192	* 45 000
EU33 Total	331 000	331 000	329 000	336 000	293 000

Note(s)

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

(b) Including Tripoli

EU33 Production of diatomite 2005 - 09



Exports of diatomite

tonnes

Country	2005	2006	2007	2008	2009
Austria	5 375	4 171	4 455	3 043	3 286
Belgium-Luxembourg	1 330	1 949	1 145	2 633	1 919
Czech Republic	4 247	4 566	1 094	4 128	3 789
Denmark (a)	* 69 300	* 71 500	* 63 600	* 67 800	* 57 520
France	25 379	24 866	29 607	23 239	21 713
Germany	7 000	11 500	7 949	7 189	5 035
Italy	1 138	1 110	3 884	9 991	10 392
Netherlands	804	1 395	348	301	1 365
Norway	1 362	281	566	770	6
Poland	455	527	774	277	85
Portugal	11	286	943	554	473
Spain	6 694	6 118	6 399	5 306	4 678
Sweden	4 423	568	3 497	749	693
Turkey	23 366	* 32 000	34 424	40 370	39 267
United Kingdom	708	687	1 238	903	533

Note(s)

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

Imports of diatomite

tonnes

Country	2005	2006	2007	2008	2009
Austria	12 892	11 693	13 710	12 561	16 327
Belgium-Luxembourg	8 192	7 450	8 633	8 506	6 708
Bulgaria	1 312	1 156	436	587	404
Croatia	495	633	610	511	462
Czech Republic	2 263	2 288	3 318	4 768	3 173
Denmark	6 561	4 974	4 244	5 849	3 347
Finland	2 700	2 339	3 510	3 344	3 015
France	11 181	12 712	14 371	14 308	15 163
Germany	40 224	40 197	42 882	49 237	38 258
Greece	645	757	958	790	482
Hungary	1 158	1 476	2 111	1 110	796
Ireland, Republic of	641	943	859	1 458	1 243
Italy	9 141	5 179	4 487	3 939	2 497
Latvia	389	467	545	681	534
Lithuania	520	504	1 178	763	836
Netherlands	7 967	6 799	7 214	6 275	3 794
Norway	2 044	1 228	1 645	1 891	931

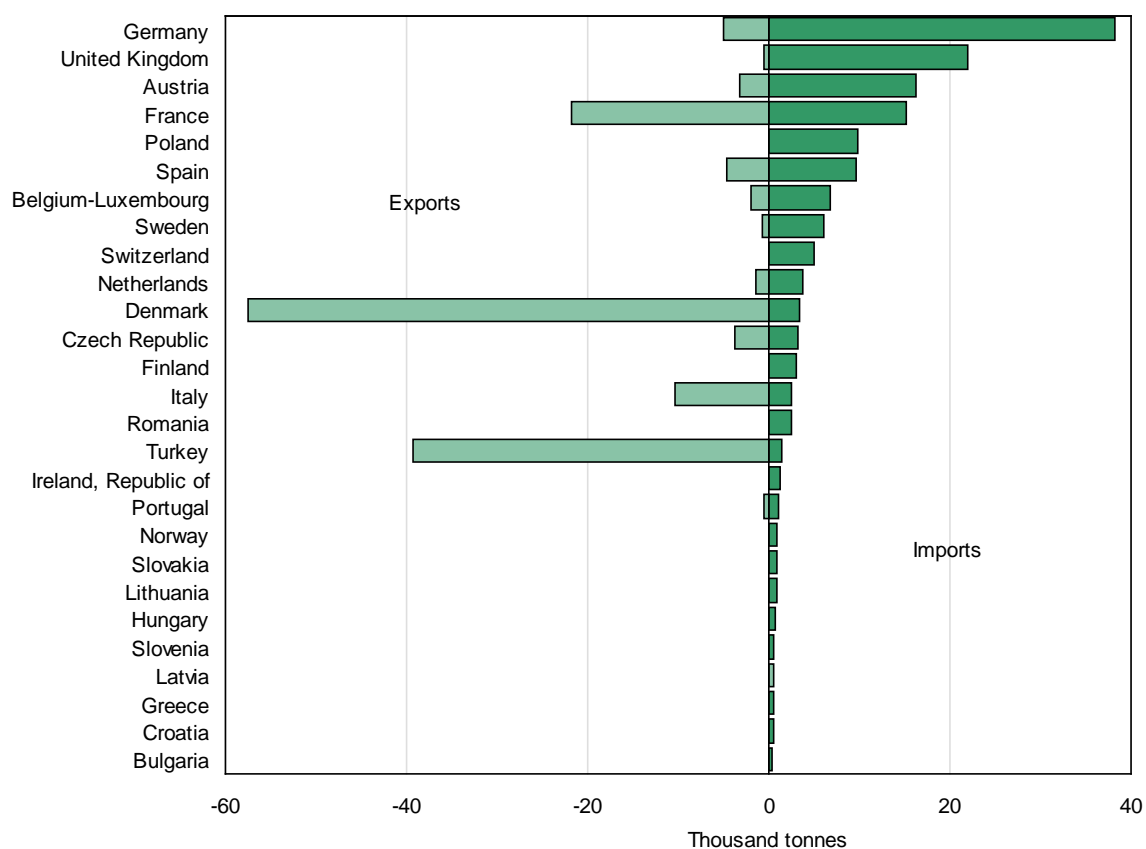
Diatomite

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Poland	6 465	5 997	8 235	9 504	9 790
Portugal	3 946	3 432	1 731	1 372	1 127
Romania	3 183	3 707	3 254	3 798	2 477
Slovakia	675	698	549	577	901
Slovenia	846	738	686	644	550
Spain	5 186	7 281	9 447	8 861	9 600
Sweden	5 096	6 095	6 976	6 929	6 082
Switzerland	3 291	3 157	4 636	4 864	5 071
Turkey	1 460	1 619	1 385	1 491	1 392
United Kingdom	29 208	28 290	24 224	23 084	22 014

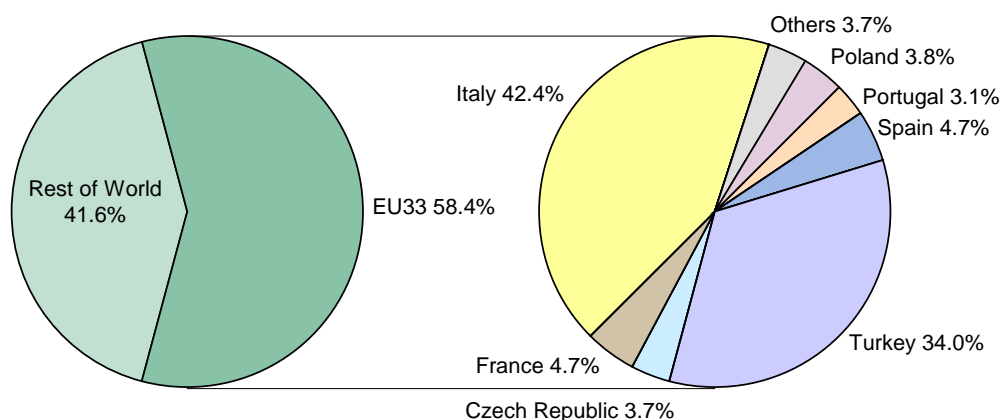
Diatomite - EU33 trade in 2009



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.
- Italy was the largest world producer in 2009 (with an estimated 25 per cent of the world total) overtaking Turkey where production fell by 38 per cent compared to 2008 (to 20 per cent of the world total). Together, the EU33 countries accounted for 58.4 per cent of world feldspar production in 2009.

EU33 Production of feldspar 2009



Production of feldspar

tonnes

Country	2005	2006	2007	2008	2009
Bulgaria	72 867	93 091	* 90 000	* 90 000	* 90 000
Czech Republic	472 000	487 000	514 000	488 000	431 000
Finland	42 783	43 187	48 980	45 250	* 45 000
France	651 000	* 650 000	* 650 000	* 650 000	* 550 000
Germany	168 640	167 332	171 303	161 416	* 150 000
Greece	100 586	* 100 000	95 000	62 000	28 617
Italy	3 995 233	4 600 903	3 524 389	* 5 000 000	* 5 000 000
Macedonia	27 076	38 124	32 814	28 920	19 377
Norway	* 67 000	65 000	65 000	62 000	48 000
Poland	490 200	457 400	501 800	599 100	445 500
Portugal	238 843	257 570	371 952	* 370 000	* 370 000
Romania	74 927	33 100	41 477	22 995	* 20 000
Slovakia	3 000	3 000	—	10 000	13 000
Spain	650 061	696 912	683 134	690 256	* 550 000
Sweden	30 000	24 000	25 000	22 000	18 000
Turkey	4 750 000	5 500 000	6 000 000	6 500 000	4 000 000
United Kingdom (a)	(b) 1 835	(b) 1 441	(b) 1 112	430	* 400
EU33 Total	11 836 000	13 218 000	12 816 000	14 802 000	11 779 000

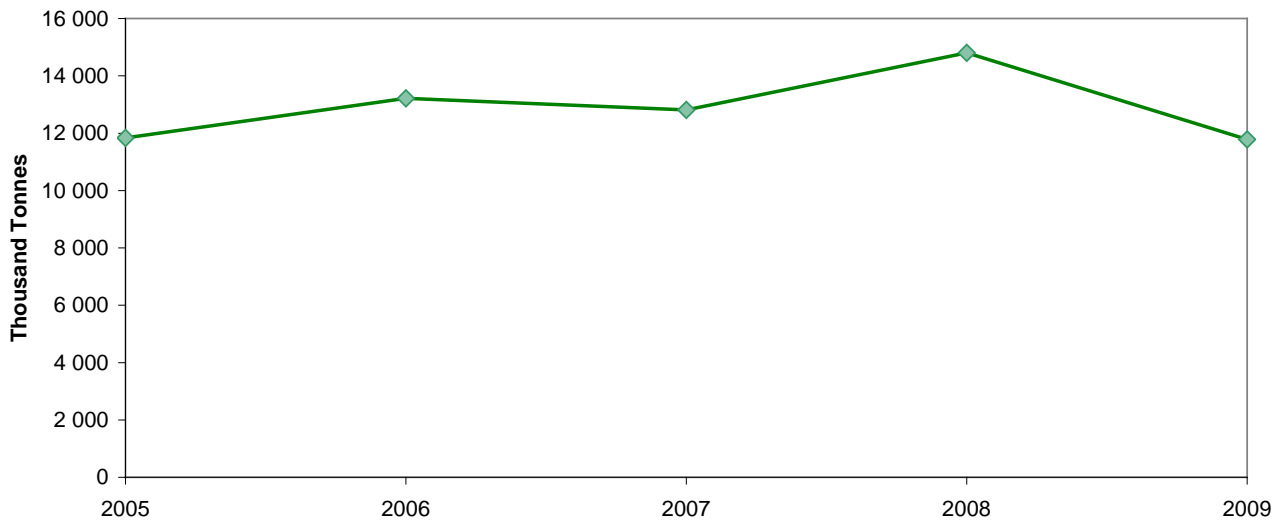
Note(s)

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

(a) Including weathered granite feldspar

(b) China stone

EU33 Production of feldspar 2005 - 09



Exports of feldspar

tonnes

Country	2005	2006	2007	2008	2009
Austria	18 998	17 977	15 058	15 194	14 025
Belgium-Luxembourg	...	...	...	994	1 137
Bulgaria	452	6 159	22 519	16 912	15 007
Czech Republic	160 469	154 672	168 259	171 596	135 533
Finland	37 386	41 437	37 392	36 482	26 613
France	255 836	224 062	261 112	244 785	182 575
Germany	113 329	121 046	125 258	121 777	70 130
Greece	4 755	5 258	6 052	5 806	718
Italy	302 715	238 555	226 963	324 977	126 289
Macedonia	22 369	36 539	28 766	23 762	18 457
Netherlands	17	552	456	555	1 355
Norway	58 821	66 838	66 484	58 211	47 711
Poland	1 509	2 749	1 849	2 049	1 829
Portugal	1 546	862	4 048	873	1 290
Romania	28 859	20 563	25 102	16 438	8 375
Spain	66 427	77 348	74 461	79 120	56 161
Sweden	16 515	15 880	14 383	10 670	7 646
Turkey (a)	* 3 800 000	* 4 300 000	* 4 300 000	* 4 600 000	* 2 500 000
United Kingdom	48	38	40	82	369

Note(s)

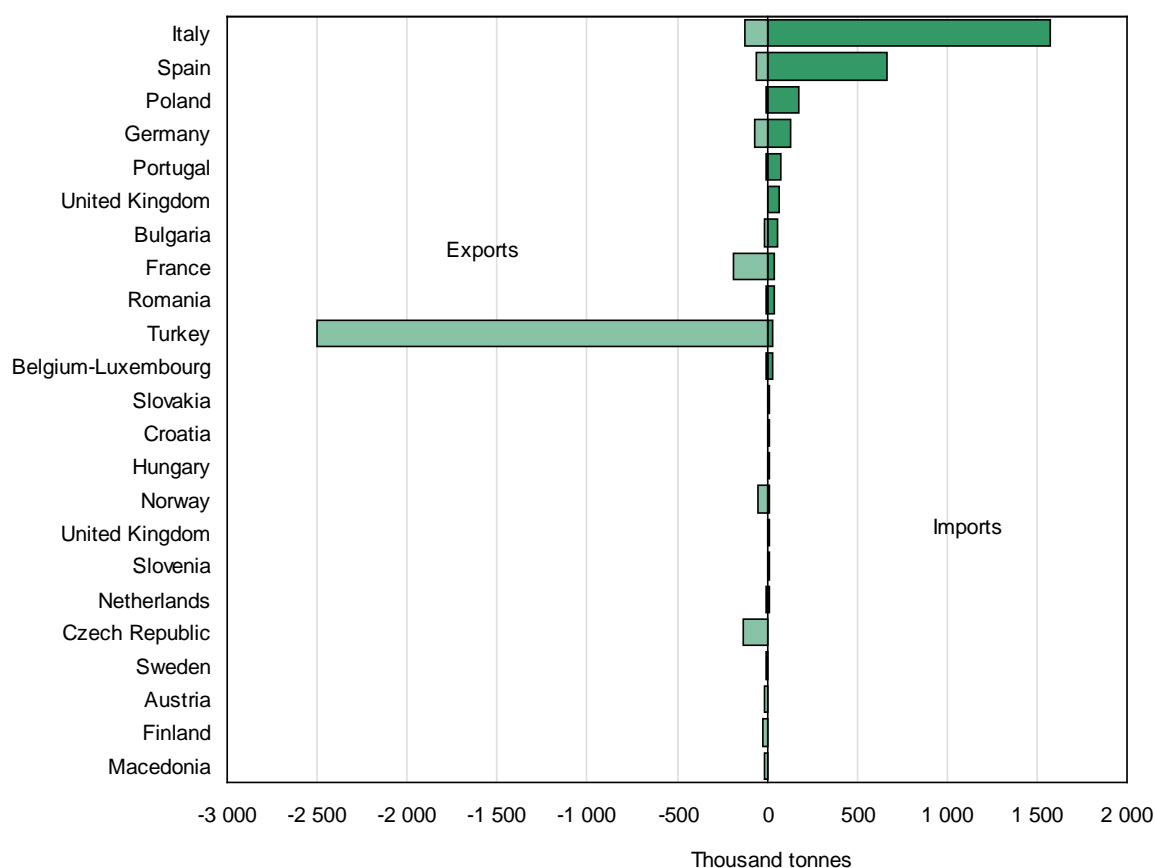
(a) BGS estimates, based on known imports into certain countries

Imports of feldspar

tonnes

Country	2005	2006	2007	2008	2009
Austria	1 549	2 220	3 816	1 928	1 933
Belgium-Luxembourg	25 876	21 483	26 151	34 988	27 237
Bulgaria	34 723	40 416	35 851	31 346	54 178
Croatia	17 011	15 986	16 212	15 983	14 603
Czech Republic	13 315	16 032	14 213	11 414	5 330
Denmark	3 868	2 590	3 145	2 678	2 666
Finland	380	796	1 023	699	851
France	85 460	54 106	20 974	59 857	43 981
Germany	101 931	126 834	143 596	143 758	130 081
Greece	3 032	439	478	2 830	5 851
Hungary	20 184	16 091	13 567	10 418	14 499
Italy	2 623 428	2 603 981	2 573 637	2 511 704	1 570 345
Lithuania	4 166	1 933	1 693	1 516	2 958
Netherlands	7 721	7 505	8 529	12 633	8 849
Norway	17 103	17 199	12 930	17 367	13 781
Poland	215 185	219 719	237 963	243 798	176 717
Portugal	115 286	98 106	108 150	85 400	72 275
Romania	39 448	31 433	48 999	49 160	37 639
Slovakia	36 989	30 726	27 548	24 788	16 352
Slovenia	5 852	5 813	6 877	6 576	8 899
Spain	1 231 861	1 422 514	1 407 350	1 410 760	664 830
Sweden	9 387	4 029	6 021	3 861	4 268
Switzerland	7 977	6 219	8 056	7 653	6 478
Turkey	40 739	44 159	46 323	28 594	28 166
United Kingdom	23 139	17 098	26 751	18 899	9 299

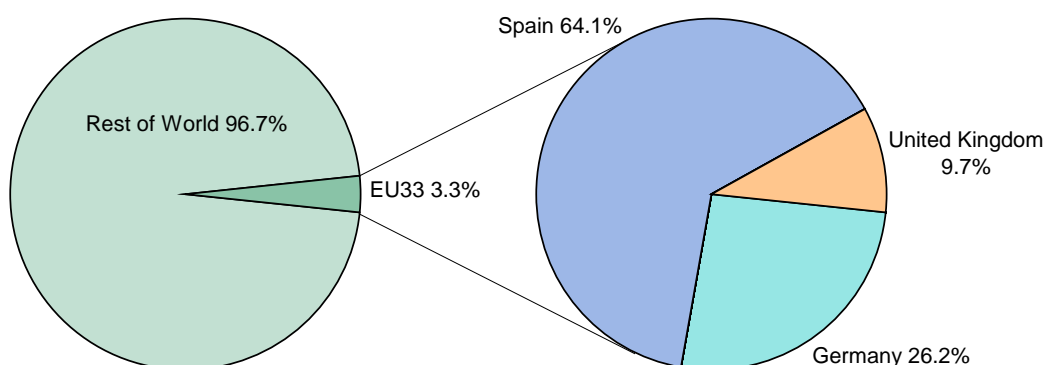
Feldspar - EU33 trade in 2009



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 which is used primarily in the pharmaceutical and agricultural industries. Fluorspar is also used in steel and aluminium manufacture.
- China dominated world production, producing 55 per cent of all fluorspar in 2009. The EU33 countries represent just 3.3 per cent of world fluorspar production, with a reduction in output of 47 per cent between 2005 and 2009 due, in part, to the cessation of output from France and Italy. Spain was the largest EU33 producer with 64.1 per cent of EU33 production in 2009, despite a fall in output of nearly two per cent compared to 2008.

EU33 Production of fluorspar 2009



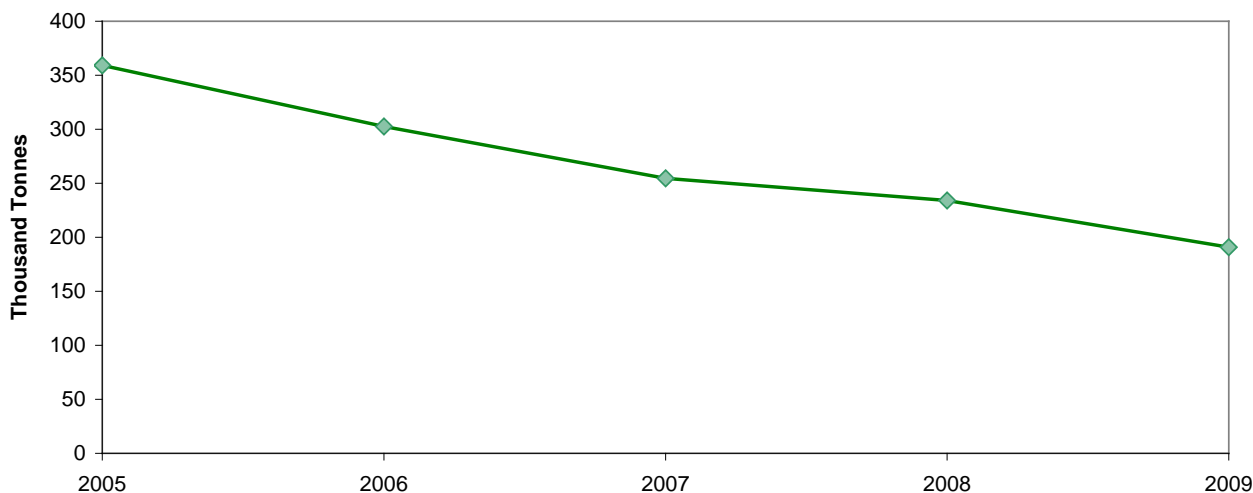
Production of fluorspar

Country	2005	2006	2007	2008	2009
France	53 000	* 40 000	—	—	—
Germany	35 364	53 009	54 359	48 519	49 962
Italy	70 326	* 15 000	—	—	—
Spain	144 126	144 845	155 197	148 736	122 408
United Kingdom	56 417	49 676	44 936	36 801	18 536
EU33 Total	359 000	303 000	254 000	234 000	191 000

Note(s)

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

EU33 Production of fluorspar 2005 - 09



Exports of fluorspar

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg	26 395	110 965	105 822	156 066	84 491
Czech Republic	8 677	9 954	8 415	4 488	6 147
France	6 821	28	3 770	58	41
Germany	24 061	35 207	56 023	50 338	31 157
Italy	28 699	16 710	19 281	31 271	9 518
Netherlands	37 113	1 587	27 213	12 665	11 333
Spain	4 434	10 518	29 117	13 109	35 366
Sweden	8 206	7 450	7 764	11 538	6 745
United Kingdom	4 315	2 451	589	187	303

Imports of fluorspar

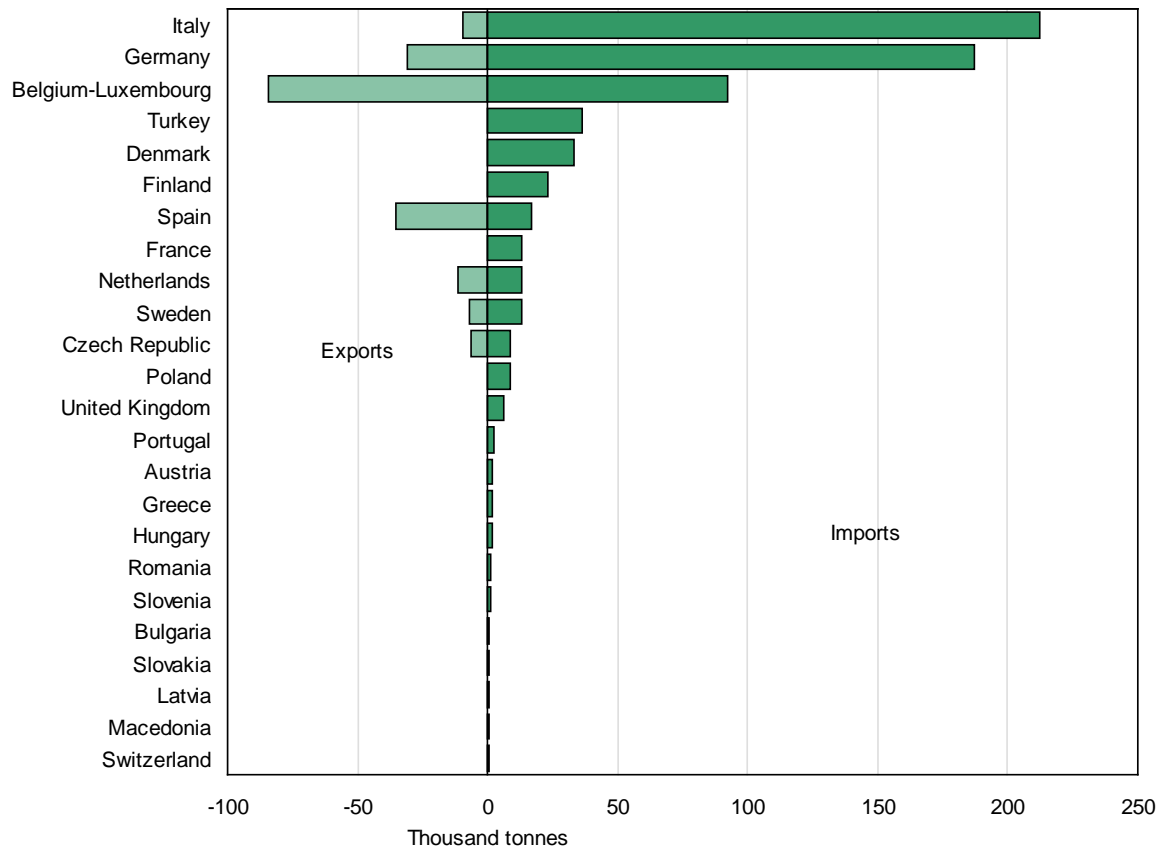
tonnes

Country	2005	2006	2007	2008	2009
Austria	2 561	2 722	2 517	3 405	1 956
Belgium-Luxembourg	70 149	123 392	130 437	170 562	92 546
Bulgaria	1 210	2 321	1 326	651	778
Croatia	143	124	149	289	165
Czech Republic	24 009	24 637	24 915	3 440	8 626
Denmark	15 124	12 635	8 218	17 003	33 149
Finland	16 597	15 011	15 064	12 366	23 178
France	21 526	34 972	48 758	21 256	13 124
Germany	264 896	293 737	346 581	357 914	187 330
Greece	10 681	2 855	2 232	2 281	1 954
Hungary	(a)* 2 900	2 801	7 460	4 512	(a)* 1 500
Italy	249 756	237 597	236 797	238 008	212 415
Latvia	216	204	220	240	468
Macedonia	92	218	380	300	457
Netherlands	45 073	7 836	48 089	13 860	13 014
Poland	6 290	7 834	8 682	8 691	8 562
Portugal	1 633	2 530	2 423	1 828	2 243
Romania	6 285	3 915	4 738	2 526	1 481
Slovakia	1 615	1 543	908	1 143	644
Slovenia	1 031	1 184	1 017	1 326	1 064
Spain	10 859	28 908	29 560	32 016	17 148
Sweden	15 790	16 176	12 089	14 214	12 959
Switzerland	714	704	533	571	370
Turkey	30 446	21 750	23 139	34 073	36 114
United Kingdom	4 051	6 620	3 875	8 429	6 436

Note(s)

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

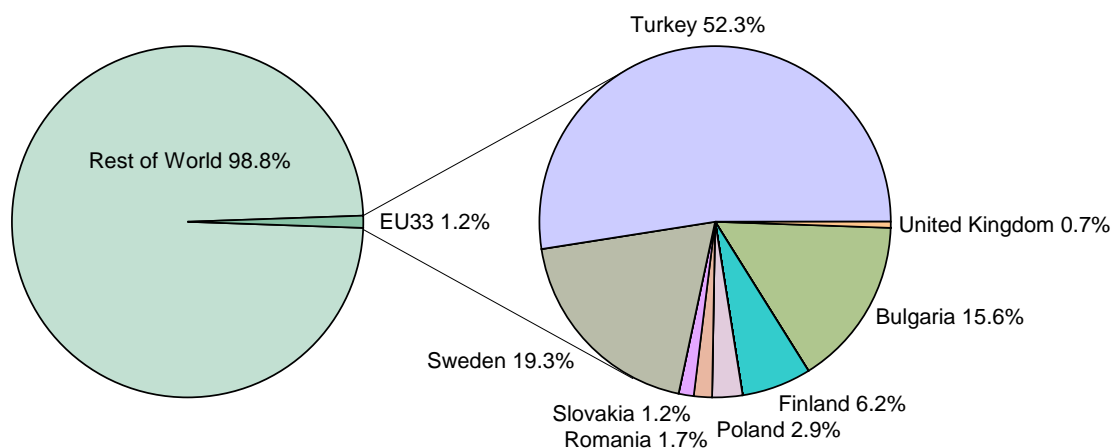
Fluorspar - EU33 trade in 2009



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.
- China, the USA, Australia and Russia were the four largest gold producers in 2009. Together these four countries produced 39 per cent of the total world output. In the EU33 Turkey (52.3 per cent of the EU33 total) and Sweden (19.3 per cent) were the largest producers in 2009, although the EU33 countries produced only 1.2 per cent of world output.

EU33 Production of gold 2009



Mine production of gold

kilograms

Country	2005	2006	2007	2008	2009
Bulgaria	3 868	3 818	3 964	4 160	4 482
Finland	3 747	5 292	4 621	4 148	* 1 785
Poland (a)	713	1 700	883	902	823
Romania	* 500	* 500	* 500	* 500	* 500
Slovakia	109	84	92	198	346
Spain	2 145	1 565	—	—	—
Sweden	6 564	6 848	5 159	4 953	5 542
Turkey	4 170	8 040	9 920	11 120	* 15 000
United Kingdom	—	—	88	163	188
EU33 Total	22 000	28 000	25 000	26 000	29 000

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

Gold

EU33 Production of gold 2005 - 09



Exports of gold

kilograms

Country	2005	2006	2007	2008	2009
Austria					
Metal	8 500	11 100	14 900	18 700	18 800
Waste & scrap	5 500	600	17 300	2 200	2 700
Belgium-Luxembourg					
Metal	100	300	16 200	56 100	38 000
Waste & scrap	458 400	438 000	128 400	134 500	29 100
Czech Republic					
Metal	1 100	4 100	3 900	4 000	9 800
Waste & scrap	600	700	6 100	5 200	5 600
Denmark					
Metal	1 064	1 253	366	397	100
Waste & scrap	120	3 531	600	600	500
Finland					
Waste & scrap	778	886	200	466	539
France					
Metal	20 053	24 302	20 229	22 247	22 448
Waste & scrap	29 600	29 600	29 300	50 700	34 094
Germany					
Metal	47 600	65 200	71 250	5 400	113 039
Waste & scrap	30 600	7 500	14 800	4 800	62 603
Greece					
Metal	3	311	900	400	500
Hungary					
Metal	628	470	871	657	1 312
Ireland, Republic of					
Metal	£942 000	£1 400 000	£1 678 000	£1 180 000	£37 000
Waste & scrap	£1 429 000	£1 313 000	£902 000	£577 000	£2 056 000
Italy					
Metal	60 480	55 847	56 360	51 260	106 646
Waste & scrap	—	16	160	1 376	173
Netherlands					
Metal	11 603	19 634	22 468	37 439	15 515
Waste & scrap	72 427	98 813	4 433	45 456	1 222
Norway					
Metal	2 415	2 337	2 601	3 847	3 865
Waste & scrap	137	182	426	600	1 197
Poland					
Metal	100	1 100	300	105 000	121 100
Waste & scrap	1 100	1 600	700	4 800	18 000
Portugal					
Waste & scrap	4 800	400	1 100	36 100	800

Exports continued

kilograms

Country	2005	2006	2007	2008	2009
Slovakia					
Metal	268	569	300	800	100
Waste & scrap	986	1 000	1 600	800	1 200
Slovenia					
Metal	101	100	1 300	3 000	129
Waste & scrap	—	3 700	—	—	200
Spain					
Metal	3 520	3 679	23 667	6 966	31 466
Waste & scrap	38	2 636	92	1 147	131 376
Sweden					
Metal	18 000	19 000	17 800	19 400	14 500
Waste & scrap	1 000	32 000	65 700	29 400	60 900
Switzerland					
Metal	1 340 948	965 959	1 095 682	2 103 919	2 201 838
Waste & scrap	2 823	2 802	102 745	125 459	107 918
Turkey					
Metal	29 624	13 581	12 068	142 244	162 208
United Kingdom					
Metal	638 262	166 080	224 598	600 018	96 231
Waste & scrap	541 399	313 712	282 298	272 339	533 182

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	2005	2006	2007	2008	2009
Austria					
Metal	22 100	9 300	30 900	72 300	86 500
Waste & scrap	1 800	300	100	400	1 700
Belgium-Luxembourg					
Metal	14 400	9 600	18 300	53 000	23 100
Waste & scrap	(a)* 34 000	147 099	362 364	(a)* 124 000	(a)* 116 000
Croatia					
Metal	1 083	992	1 608	693	1 221
Czech Republic					
Metal	769	1 570	8 813	3 047	3 055
Waste & scrap	12 931	14 953	45 718	19 140	60 440
Denmark					
Metal	2 095	1 643	2 350	2 000	3 100
Estonia					
Metal	234	365	900	1 200	300
Finland					
Waste & scrap	22 981	4	1	—	35
France					
Metal	28 834	23 605	23 567	20 071	16 877
Waste & scrap	5 200	1 500	1 100	3 300	6 248
Germany					
Metal	52 827	56 743	68 549	118 516	164 511
Waste & scrap	1 923 600	1 821 100	1 304 700	1 390 000	1 126 326
Greece					
Metal	56 572	60 999	48 500	114 500	26 600
Hungary					
Metal	1 380	235	229	(a)* 400	1 076
Ireland, Republic of					
Metal	£7 227 000	£7 213 000	£6 260 000	£5 271 000	£4 365 000
Waste & scrap	2 567	904	47	987	790
Italy					
Metal	250 938	204 012	206 914	166 506	146 721
Waste & scrap	904	810	17 885	851	864

Gold

Imports continued

kilograms

Country	2005	2006	2007	2008	2009
Lithuania					
Waste & scrap	114 600	12 470	2	—	103
Malta					
Metal	7 258	7 900	9 034	6 820	5 500
Netherlands					
Metal	22 754	22 122	21 706	41 012	42 806
Waste & scrap	1	92 890	19 174	2 422	111
Norway					
Metal	2 099	1 739	1 448	1 146	670
Waste & scrap	1 049	1 304	1 455	3 940	3 568
Poland					
Metal	100	400	6 100	3 800	100
Portugal					
Metal	5 488	3 224	2 003	1 535	1 077
Slovakia					
Metal	42 001	13 901	92 400	74 800	208 400
Slovenia					
Metal	239	445	600	1 700	400
Waste & scrap	214	1 533	100	9	1 210
Spain					
Metal	20 594	15 072	6 641	* 72 000	68 562
Waste & scrap	139	233	2 352	252	109
Sweden					
Metal	£8 625 000	£10 124 000	£18 292 000	£25 583 000	£26 296 000
Waste & scrap	£180 000	£7 000	£112 000	£565 000	£53 000
Switzerland					
Metal	1 655 691	1 498 693	1 667 100	2 101 027	2 198 967
Waste & scrap	72 764	104 957	57 001	214 839	319 257
Turkey					
Metal	403 415	157 792	155 471	179 606	52 654
United Kingdom					
Metal	351 258	781 840	649 163	914 000	1 166 948
Waste & scrap	66 198	7 925	17 046	43 143	213 440

Note(s)

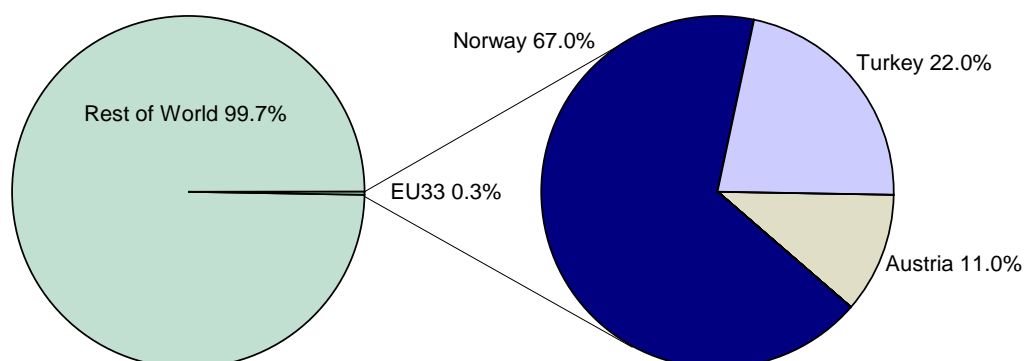
- (1) In this table the term 'metal' includes both unwrought and partly worked gold but excludes gold coin
(2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
(3) See 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.
- Production in the EU33 countries has fallen by 58 per cent between 2005 and 2009, and represents only 0.3 per cent of the world total. World output is dominated by China which produced 83 per cent of the total.

EU33 Production of graphite 2009



Production of graphite

tonnes

Country	2005	2006	2007	2008	2009
Austria	—	—	—	(a) 250	(a) 750
Czech Republic	3 000	5 000	3 000	3 000	—
Germany	2 638	—	—	—	—
Norway	9 000	9 000	3 000	4 100	4 562
Romania	486	—	—	—	—
Turkey	* 1 100	1 200	* 1 500	* 1 500	* 1 500
EU33 Total	16 000	15 000	8 000	9 000	7 000

Note(s)

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

(a) Crude

EU33 Production of graphite 2005 - 09



Graphite

Exports of graphite

tonnes

Country	2005	2006	2007	2008	2009
Austria	7 082	7 416	7 460	8 853	6 260
Belgium-Luxembourg	834	460	438	3 815	2 634
Czech Republic	3 489	3 518	4 029	4 076	2 150
Finland	0	2	46 162	0	5
France	225	85	163	269	226
Germany	14 241	20 777	23 993	18 950	12 722
Italy	274	442	401	308	820
Netherlands	3 240	2 991	4 308	1 378	1 974
Spain	11 972	6 356	8 728	10 499	8 160
Sweden	195	230	273	252	159
Switzerland	326	225	384	600	355
Turkey	72	57	13	390	257
United Kingdom	2 685	2 979	3 065	3 156	2 271

Note(s)

(1) This table excludes synthetic graphite

Imports of graphite

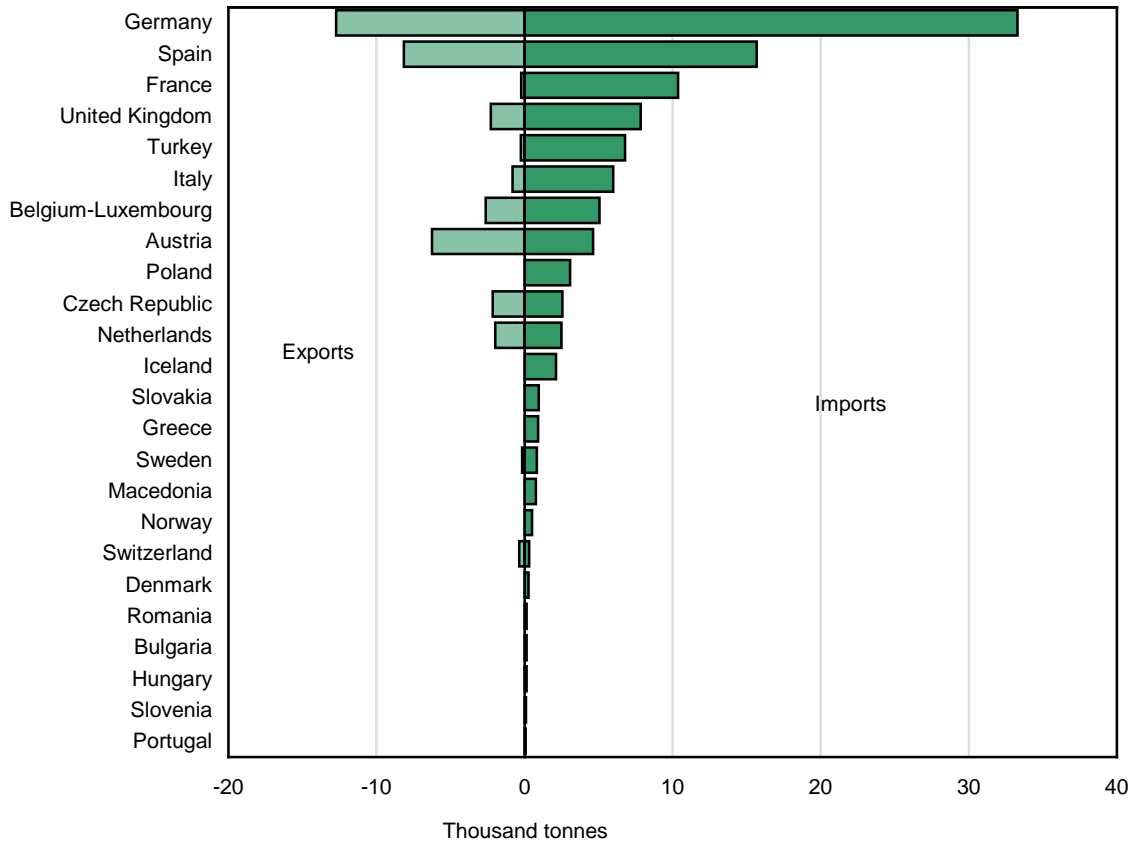
tonnes

Country	2005	2006	2007	2008	2009
Austria	13 655	10 704	17 757	30 863	4 622
Belgium-Luxembourg	3 040	1 836	2 323	3 625	5 049
Bulgaria	319	433	250	158	132
Czech Republic	4 787	3 485	5 301	6 233	2 554
Denmark	288	268	212	185	269
France	20 449	19 430	19 250	20 618	10 376
Germany	55 843	45 884	54 627	62 180	33 293
Greece	91	83	111	142	918
Hungary	191	192	178	147	126
Iceland	—	2	—	11	2 132
Ireland, Republic of	177	23	73	12	8
Italy	11 102	11 548	11 362	11 832	5 995
Macedonia	107	648	1 969	1 522	761
Netherlands	15 205	5 362	13 463	42 612	2 487
Norway	423	296	980	561	508
Poland	3 028	3 658	5 701	4 474	3 078
Portugal	1 722	1 954	2 210	1 493	73
Romania	548	488	542	304	144
Slovakia	1 031	1 382	2 246	2 981	962
Slovenia	112	161	108	141	89
Spain	8 334	10 143	15 582	24 284	15 669
Sweden	1 539	1 252	1 592	1 091	835
Switzerland	652	722	966	931	306
Turkey	11 956	6 300	6 095	13 230	6 788
United Kingdom	17 766	16 978	17 225	14 309	7 850

Note(s)

(1) This table excludes synthetic graphite

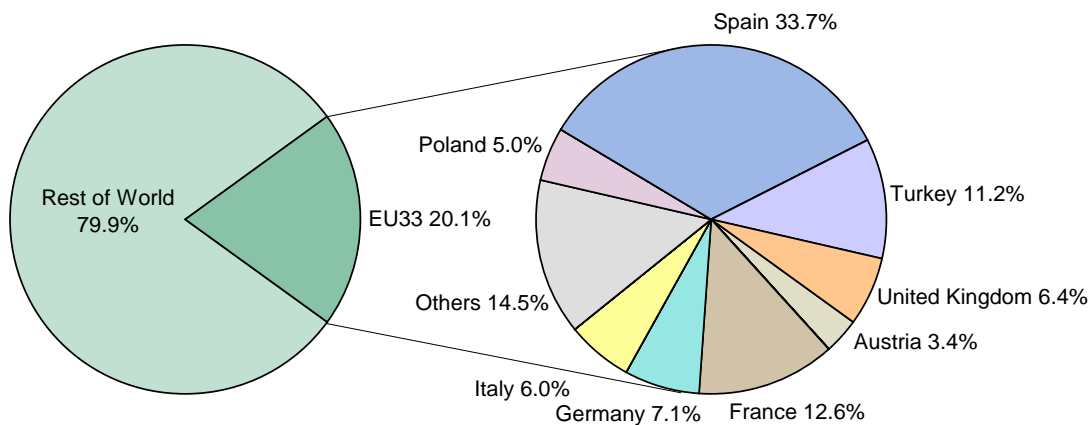
Graphite - EU33 trade in 2009



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 per cent) to make building and decorative plaster. It is used as an additive to cement, in farming as a soil conditioner, as a filler and in the chemical industry.
- The EU33 produced 20.1 per cent of world natural gypsum in 2009. The largest EU33 producer is Spain which accounted for 33.7 per cent of EU33 production (or seven per cent of the world total). China was the largest gypsum producer in the world in 2009 with 25 per cent of the world total.
- 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.

EU33 Production of gypsum 2009



Production of Gypsum

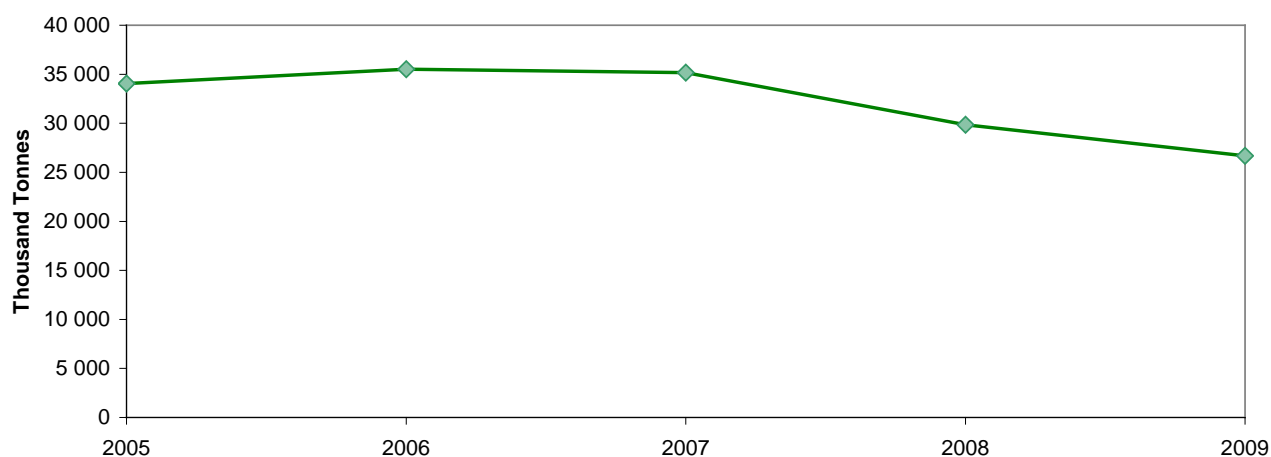
Country	2005	2006	2007	2008	2009
Austria					
Gypsum	911 162	936 072	1 006 416	1 022 983	(a) 910 945
Anhydrite	106 032	135 380	57 428	64 276	...
Bulgaria	187 700	215 800	234 300	21 200	127 600
Croatia	196 133	170 351	170 721	* 250 000	318 139
Cyprus	215 500	270 000	330 000	412 000	317 000
Czech Republic	25 000	16 000	66 000	35 000	13 000
France (a)	4 902 498	* 4 800 000	* 4 800 000	2 339 380	3 351 339
Germany (a)	1 644 000	1 771 000	1 898 000	2 112 000	1 898 000
Greece	865 216	* 850 000	836 967	(a) 1 000 000	(a) 730 000
Hungary (a)	19 000	30 000	26 000	15 940	19 766
Ireland, Republic of	* 700 000	* 700 000	* 700 000	* 600 000	* 400 000
Italy	* 1 600 000	1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Latvia (a)	273 000	330 000	346 000	349 000	175 000
Macedonia	190 232	267 760	255 500	242 400	154 550
Poland					
Gypsum	1 048 000	1 172 000	1 298 000	1 283 000	(a) 1 326 928
Anhydrite	195 000	181 000	194 000	198 000	...
Portugal	389 180	366 599	418 035	372 731	* 400 000
Romania	532 867	615 072	1 004 150	832 248	* 800 000
Slovakia (a)	107 500	126 200	151 000	152 000	131 000
Spain	14 453 053	14 596 559	14 535 422	11 955 753	* 9 000 000
Switzerland	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Turkey	* 3 500 864	* 4 369 771	* 3 241 177	* 3 000 000	* 3 000 000
United Kingdom	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
EU33 Total	34 100 000	35 500 000	35 200 000	29 900 000	26 700 000

Note(s)

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

(a) Including anhydrite

EU33 Production of gypsum 2005 - 09



Exports of Gypsum

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Crude	21 433	30 002	89 128	26 402	20 694
Calcined	94 207	99 013	121 473	89 906	78 839
Belgium-Luxembourg					
Crude	46 691	62 303	54 953	89 627	113 954
Calcined	2 709	4 707	4 271	4 369	2 484
Bulgaria					
Crude & calcined	2 347	2 439	1 439	787	11 965
Croatia					
Crude & calcined	4 890	6 349	4 808	4 738	3 119
Cyprus					
Crude & calcined	73 741	152 621	203 109	279 902	236 427
Czech Republic					
Crude	33 307	46 837	105 394	60 018	10 195
Calcined	4 272	6 249	5 973	7 881	6 430
Denmark					
Crude	111 720	165 656	197 920	141 124	8 440
Calcined	25 474	356 443	1 740	4 173	1 455
France					
Crude	250 845	321 789	414 428	381 841	267 315
Calcined	350 955	349 703	356 716	338 682	282 254
Germany					
Crude	259 631	391 494	423 152	447 140	393 691
Calcined	991 946	1 471 660	1 703 212	1 775 467	1 290 391
Greece					
Crude	88 187	116 442	47 694	21 258	49 037
Calcined	926	752	1 842	937	580
Hungary					
Crude & calcined	2 648	6 408	8 626	19 259	22 019
Ireland, Republic of					
Crude	1 022	1 054	1 058	1 094	10 425
Calcined	42 212	40 027	37 914	32 821	28 491
Italy					
Crude	12 641	141	17 748	24 525	17 907
Calcined	41 404	69 272	27 123	24 496	21 848
Latvia					
Crude & calcined	48 896	109 404	74 627	63 732	37 352
Macedonia					
Crude & calcined	9 779	9 488	10 167	12 496	12 604
Netherlands					
Crude	53 351	32 425	49 394	37 991	* 39 600
Calcined	61 508	70 005	17 744	15 228	5 550
Norway					
Crude & calcined	49 511	40 811	51 212	69 976	68 140

Gypsum

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Poland					
Crude & calcined	33 277	40 832	56 003	58 644	40 512
Portugal					
Crude & calcined	1 332	4 349	8 362	22 707	12 394
Romania					
Crude & calcined	15 089	14 283	13 507	13 069	17 966
Slovenia					
Crude & calcined	993	9 502	36 039	8 575	6 575
Spain					
Crude	3 228 806	3 568 327	3 335 273	3 458 773	2 187 816
Calcined	391 274	306 791	274 781	228 060	182 982
Sweden					
Crude & calcined	7 832	9 954	12 694	11 525	9 358
Switzerland					
Crude & calcined	1 095	1 158	2 754	5 207	2 454
Turkey					
Crude	4 346	26 683	43 195	37 899	145 717
Calcined	477 710	481 313	544 954	838 314	643 873
United Kingdom					
Crude	2 299	2 679	1 248	1 493	1 978
Calcined	54 356	63 533	57 988	48 340	32 551

Note(s)

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

Imports of Gypsum

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Crude	15 280	11 057	14 651	10 118	12 098
Calcined	66 118	61 713	97 281	67 712	73 588
Belgium-Luxembourg					
Crude	768 702	811 923	1 118 788	1 232 112	704 775
Calcined	460 067	449 433	521 942	531 049	440 258
Bulgaria					
Crude	18 684	10 088	8 240	12 223	15 830
Calcined	49 163	56 869	58 880	70 280	42 086
Croatia					
Crude	41 665	25 095	48 775	38 120	14 470
Calcined	33 316	37 052	37 034	34 224	22 154
Cyprus					
Crude & calcined	3 501	9 849	12 932	15 045	10 807
Czech Republic					
Crude	19 253	38 983	70 972	76 119	83 819
Calcined	37 637	43 282	45 167	75 278	53 954
Denmark					
Crude	317 736	330 476	388 662	379 094	106 304
Calcined	45 691	52 788	53 647	52 087	58 675
Estonia					
Crude & calcined	20 957	40 876	46 336	38 062	9 141
Finland					
Crude	341 680	310 245	423 355	408 509	146 141
Calcined	7 517	9 958	8 588	6 598	5 664
France					
Crude	361 820	588 367	580 341	492 072	354 086
Calcined	60 358	68 652	111 325	116 678	101 840
Germany					
Crude	66 590	79 798	80 449	54 216	28 315
Calcined	73 647	85 665	93 275	76 992	75 319
Greece					
Crude & calcined	6 071	14 321	4 747	3 093	2 097
Hungary					
Crude & calcined	60 336	65 546	66 039	55 933	46 376

Imports continued

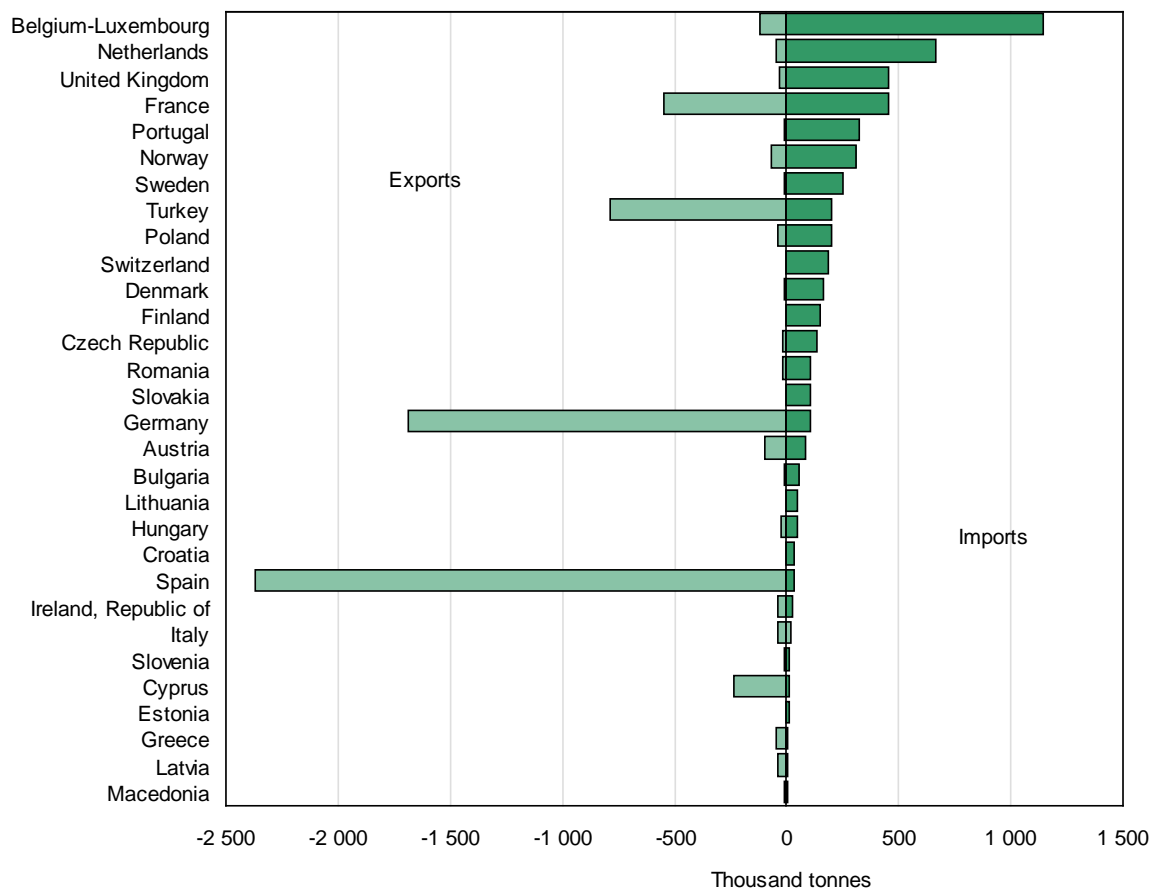
tonnes

Country	2005	2006	2007	2008	2009
Iceland					
Crude	7 353	10 061	13 279	10 533	4 724
Calcined	928	713	1 409	1 606	642
Ireland, Republic of					
Crude	1 056	2 064	7 487	1 412	15 931
Calcined	20 024	22 500	22 676	24 877	13 930
Italy					
Crude	6 134	5 285	6 814	21 411	5 754
Calcined	22 076	20 028	21 088	19 621	16 645
Latvia					
Crude & calcined	3 563	9 960	13 670	5 818	1 920
Lithuania					
Crude	58 859	71 649	78 185	90 320	28 754
Calcined	20 990	36 588	47 112	43 127	19 974
Macedonia					
Crude & calcined	1 165	1 106	1 080	976	948
Malta					
Crude & calcined	5 981	7 549	6 309	5 505	2 305
Netherlands					
Crude	155 519	227 950	402 915	285 990	249 206
Calcined	686 085	483 249	430 550	415 623	418 481
Norway					
Crude	119 962	117 892	128 045	121 440	76 435
Calcined	274 006	287 568	328 003	298 394	234 564
Poland					
Crude	150 622	175 567	283 724	154 273	118 834
Calcined	91 356	150 619	216 536	182 150	78 939
Portugal					
Crude	79 370	96 070	75 794	89 627	81 971
Calcined	361 284	307 953	320 174	298 708	244 809
Romania					
Crude	28 044	53 211	66 231	90 194	45 891
Calcined	40 983	65 441	77 900	100 471	62 134
Slovakia					
Crude	76 298	85 408	88 083	111 188	53 104
Calcined	39 836	26 794	29 894	47 044	52 703
Slovenia					
Crude	29 388	31 312	38 588	24 660	5 565
Calcined	7 429	8 167	7 936	8 622	9 432
Spain					
Crude	47 585	59 656	53 028	43 171	25 963
Calcined	32 078	20 440	14 129	33 825	7 349
Sweden					
Crude	206 972	263 582	244 986	178 364	94 656
Calcined	97 746	166 829	146 638	154 201	158 842
Switzerland					
Crude	76 460	87 964	93 365	101 731	101 228
Calcined	88 511	92 787	95 000	97 296	87 350
Turkey					
Crude & calcined	196 747	278 129	180 159	167 572	202 523
United Kingdom					
Crude	627 595	369 714	196 613	140 783	396 138
Calcined	133 522	92 069	52 678	88 766	60 337

Note(s)

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

Gypsum - EU33 trade in 2009



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 (60 per cent). The EU33 produces no iodine.

Exports of iodine

kilograms

Country	2005	2006	2007	2008	2009
Austria	37	600	300	100	300
Belgium-Luxembourg	3 460 200	3 272 600	2 633 100	3 560 100	2 582 300
Bulgaria	1 199	781	51 610	200	300
Czech Republic	1 000	800	1 000	300	500
Denmark	3 058	6 301	100	1	1 500
France	40 900	51 300	91 100	100 500	101 909
Germany	465 800	340 600	183 200	97 400	112 690
Ireland, Republic of	1 462	—	1 944	1 536	1 982
Italy	14 499	7 067	2 613	2 119	86 917
Lithuania	33	4 800	20	3	—
Netherlands	59 228	76 080	517 872	773 705	386 170
Norway	—	17	7 200	—	250
Poland	100	200	1 300	5 100	5 100
Spain	21 089	7 356	7 689	46 873	15 376
Sweden	4 000	40	48	122	300
Switzerland	4 179	1 342	1 205	1 605	97
Turkey	21 250	20 213	11 098	1 212	31 908
United Kingdom	197 086	314 659	368 785	174 965	121 370

Imports of iodine

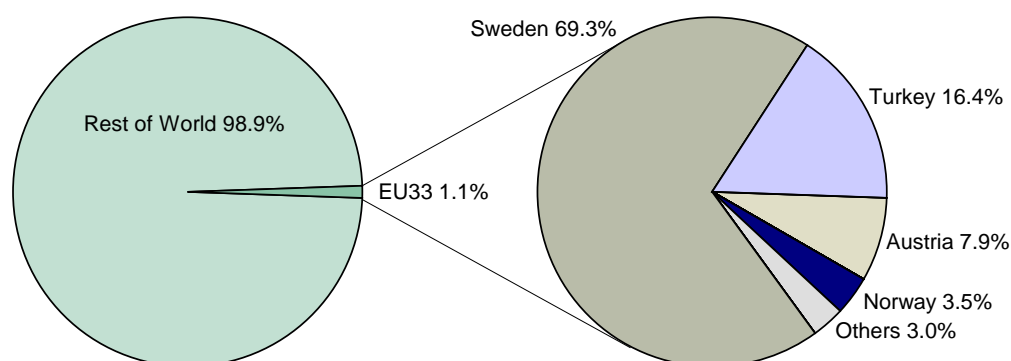
kilograms

Country	2005	2006	2007	2008	2009
Austria	92 700	173 600	145 500	139 700	204 100
Belgium-Luxembourg	3 332 800	3 513 200	2 774 500	3 586 200	3 189 200
Bulgaria	5 080	3 990	6 500	2 900	2 900
Czech Republic	28 400	31 600	32 300	25 200	31 900
Denmark	13 109	16 345	1 973 090	1 122 386	6 791
Finland	6 209	2 066	3 400	3 400	2 901
France	1 685 200	1 929 100	1 687 900	1 875 400	1 189 569
Germany	1 302 300	1 205 800	1 102 600	1 150 600	1 168 886
Greece	2 247	2 153	500	600	800
Hungary	6 700	1 800	4 400	7 900	2 100
Iceland	60 040	104	12 001	12 029	9
Ireland, Republic of	11 921	9 705	10 318	21 515	24 358
Italy	854 831	1 033 737	1 231 082	1 343 977	1 256 232
Lithuania	6 929	5 023	470	383	4 510
Netherlands	21 015	158 145	1 870	800 817	23 376
Norway	1 748 110	1 919 848	1 785 526	1 668 339	1 270 662
Poland	10 200	18 700	18 800	24 100	10 600
Portugal	12 000	1 400	900	100	8 000
Romania	1 054	1 107	2 636	1 395	330
Spain	781 787	790 641	582 029	541 706	512 821
Sweden	2 000	2 000	5 000	600	400
Switzerland	7 949	11 133	18 136	7 260	7 156
Turkey	5 634	3 219	8 594	9 498	12 133
United Kingdom	1 092 633	1 019 543	1 225 368	1 106 864	1 075 328

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 in 2009 was China (39 per cent of the world total) where output has increased by 109 per cent between 2005 and 2009. EU33 iron ore production was only 1.1 per cent of the world total in 2009 and has decreased by 16 per cent between 2005 and 2009. Sweden is the largest EU33 producer (69.3 per cent of EU33 production).

EU33 Production of iron ore 2009



Production of iron ore

Country	2005	2006	2007	2008	2009
Austria (a)	2 047 950	2 092 996	2 152 825	2 032 671	2 002 131
Germany (b) (c)	362 106	416 000	421 711	455 100	363 699
Norway	713 000	620 000	630 000	746 000	896 000
Romania	220 788	122 684	8 157	—	—
Slovakia	534 000	583 000	570 000	392 000	...
Sweden	23 255 000	23 302 000	24 714 000	23 888 000	17 677 000
Turkey	3 889 934	3 251 969	4 549 556	3 990 110	4 169 972
United Kingdom	354	341	* 300	145	—
EU33 Total	31 023 000	30 389 000	33 047 000	31 504 000	25 501 000

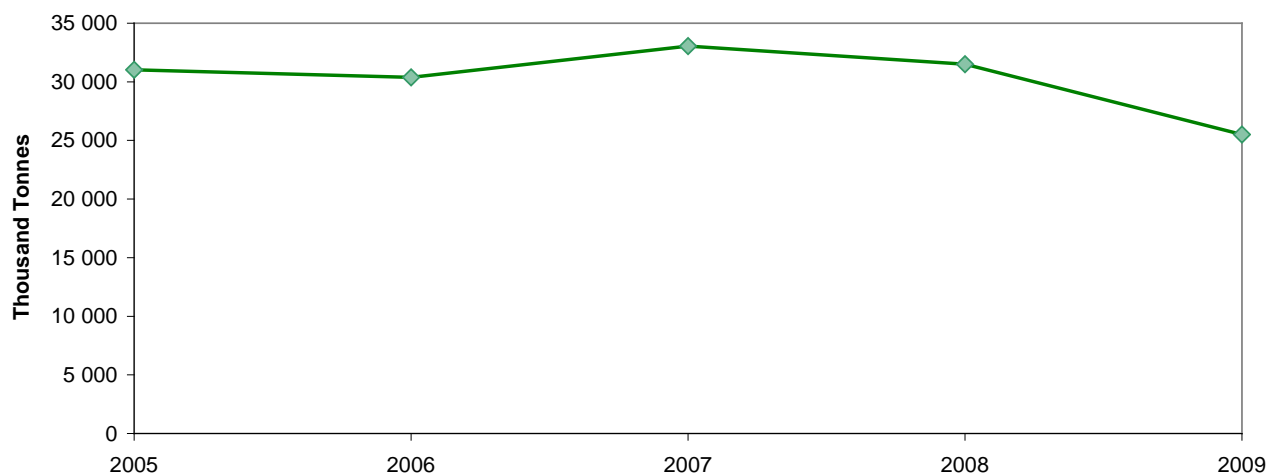
Note(s)

(a) Including micaceous iron oxide

(b) Including manganiferous iron ore

(c) Used as aggregate in the construction industry

EU33 Production of iron ore 2005 - 09



Exports of iron ore

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg	81 560	43 555	41 440	85 701	178 567
Finland					
Burnt pyrites	59 433	67 503	146 844	396 064	244 225
France	107 042	76 097	69 376	57 720	124 492
Germany					
Iron ore	7 023	18 294	17 770	34 495	4 497
Burnt pyrites	7 257	6 623	7 491	12 700	10 865
Italy					
Iron ore	365	18 929	7 026	1 598	313
Burnt pyrites	9 410	4 407	1 544	101	41
Netherlands	1 977 965	2 491 191	2 710 120	85 698	239 932
Norway					
Iron ore	721 975	720 582	739 731	615 296	775 828
Burnt pyrites	14 730	2 658	...	...	...
Poland	50	—	27	10 198	14 893
Romania					
Burnt pyrites	...	1	24 068	15 567	12 694
Slovakia	8 581	141 448	4 353	53 434	5 923
Spain (a)	231 059	120 787	75 567	62 147	17 348
Sweden	17 597 351	18 409 475	19 033 842	17 617 162	16 104 129
United Kingdom	2 107	5 229	5 396	7 731	32 579

Note(s)

(a) Including burnt pyrites

Imports of iron ore

tonnes

Country	2005	2006	2007	2008	2009
Austria (a)	7 423 189	8 412 038	9 061 870	7 996 632	6 095 762
Belgium-Luxembourg (a)	9 384 885	11 387 178	9 583 857	12 337 572	3 279 543
Bulgaria					
Iron ore	1 050 925	1 305 110	919 785	208 559	3 110
Burnt pyrites	437 710	450 004	464 580	188 923	15 831
Croatia (a)	12 605	12 604	14 444	17 177	12 057
Czech Republic	6 576 885	7 984 718	(a) 6 578 116	(a) 6 799 756	(a) 4 803 009
Denmark					
Iron ore	8 450	4 318	72 806	111 302	58 894
Burnt pyrites	86 399	81 341	9 231	—	—
Finland	4 215 633	3 481 019	3 156 096	3 121 303	2 204 018

Iron Ore

Imports continued

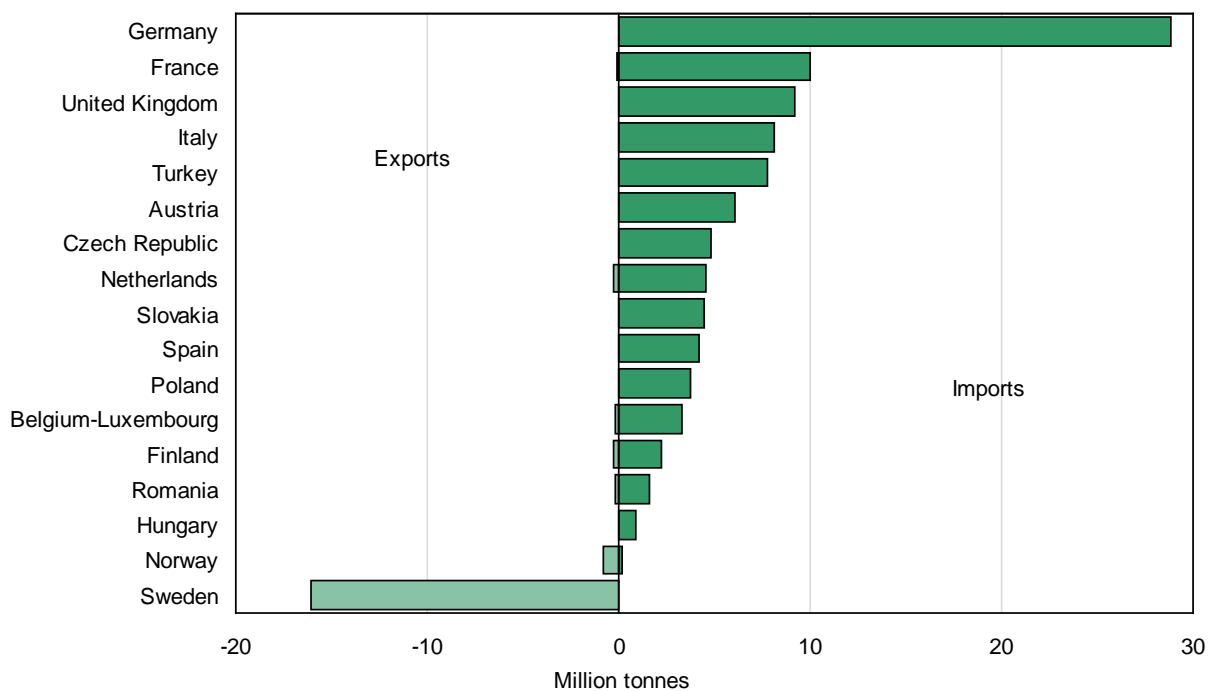
tonnes

Country	2005	2006	2007	2008	2009
France					
Iron ore	19 506 894	19 463 057	20 065 037	18 220 893	10 014 901
Burnt pyrites	160	3 451	2 107	4 948	5 375
Germany					
Iron ore	39 061 160	44 850 286	46 194 376	44 339 072	28 812 155
Burnt pyrites	20 496	36 299	570	—	7 087
Greece	(a) 55 529	(a) 9 755	(a) 2 280	74	(a) 172
Hungary	996 277	987 543	968 033	616 684	876 109
Iceland	38 058	38 509	43 452	(a) 44 167	34 404
Ireland, Republic of	(a) 580	1 161	(a) 4 594	(a) 13 478	(a) 18 151
Italy	17 551 785	(a) 17 776 812	17 013 076	16 313 184	8 159 741
Latvia	...	3 919	46 109	44 607	2 393
Netherlands	12 285 177	10 833 565	12 693 210	10 831 769	(a) 4 585 303
Norway	(a) 526 738	216 372	179 727	151 503	134 167
Poland	6 788 655	9 607 629	8 746 836	(a) 7 784 529	(a) 3 752 010
Romania					
Iron ore	6 601 393	6 054 765	6 259 705	5 003 811	1 597 033
Burnt pyrites	...	62 505	2 824	17 770	11 572
Slovakia	5 513 902	6 406 019	5 853 880	4 802 516	4 499 385
Spain (a)	6 248 771	5 836 809	6 117 047	6 479 890	4 237 845
Sweden	104 570	82 211	(a) 69 937	(a) 71 441	(a) 44 006
Switzerland (a)	15 145	16 019	15 626	18 704	16 490
Turkey					
Iron ore	4 621 446	7 197 305	6 925 163	5 004 508	7 757 561
Burnt pyrites	63 666	11 596	...	17 092	14 097
United Kingdom					
Iron ore	16 204 615	16 370 705	17 435 472	15 282 786	9 185 919
Burnt pyrites	1 911	1 282	131 230	693	232

Note(s)

(a) Including burnt pyrites

Iron ore - EU33 trade in 2009



Production of pig iron

tonnes

Country	2005	2006	2007	2008	2009
Austria	5 444 000	5 547 000	5 908 000	5 795 000	4 353 000
Belgium	7 254 000	7 516 000	6 577 000	6 977 000	7 407 000
Bulgaria	1 115 000	1 147 000	1 069 000	441 000	...
Czech Republic	4 627 000	5 192 000	5 287 000	4 737 000	3 483 000
Finland	3 056 165	3 157 894	2 915 130	2 942 946	2 042 000
France	12 595 584	12 873 900	12 425 703	11 371 879	8 104 318
Germany	29 294 000	30 940 000	31 700 000	29 105 000	20 104 000
Hungary	1 329 000	1 340 000	1 393 655	1 288 758	1 050 000
Italy	11 392 000	11 500 000	11 100 000	10 400 000	5 670 000
Netherlands	6 031 000	5 417 000	6 412 000	6 130 000	4 655 000
Norway	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Poland	4 476 831	5 332 632	5 804 418	4 933 781	3 095 053
Romania	4 097 998	3 945 975	3 923 244	2 957 715	1 575 000
Slovakia	3 681 000	4 145 000	4 012 000	3 529 000	3 019 000
Spain	4 160 000	3 432 000	3 976 000	3 995 000	2 920 000
Sweden	3 844 000	3 701 000	3 947 000	3 708 000	1 966 000
Turkey	5 398 500	5 952 000	6 235 537	6 697 372	6 913 325
United Kingdom	10 188 800	10 695 700	10 959 800	10 136 800	7 674 000
EU33 Total	118 080 000	121 940 000	123 750 000	115 250 000	84 500 000

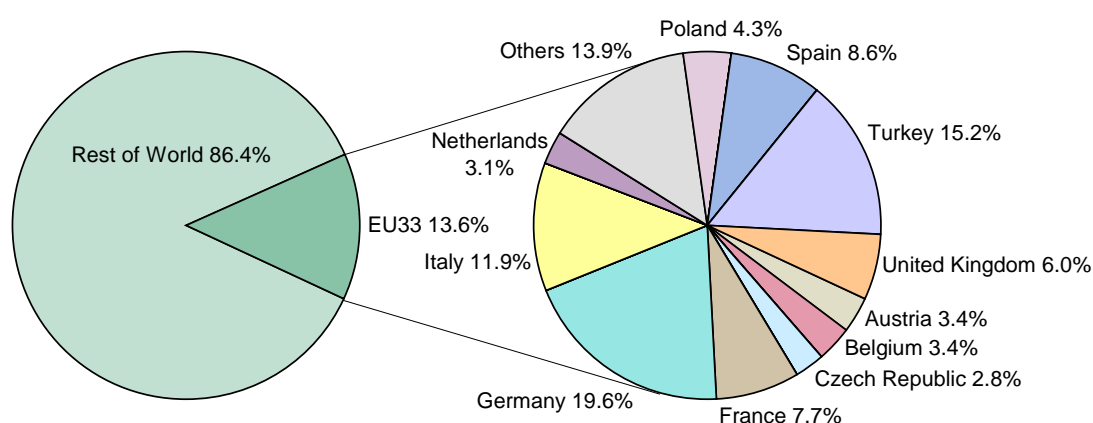
Note(s)

(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 product 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 EU33 and world total steel production.
- The majority of industrialised countries produce steel. In 2009 the largest producer was China, with 46 per cent of the world total and with production 61 per cent higher than in 2005. The EU33 countries produced 13.6 per cent of the world total and the largest producer in the EU33 was Germany, which produced nearly 19.6 per cent of EU33 steel output.

EU33 Production of crude steel 2009



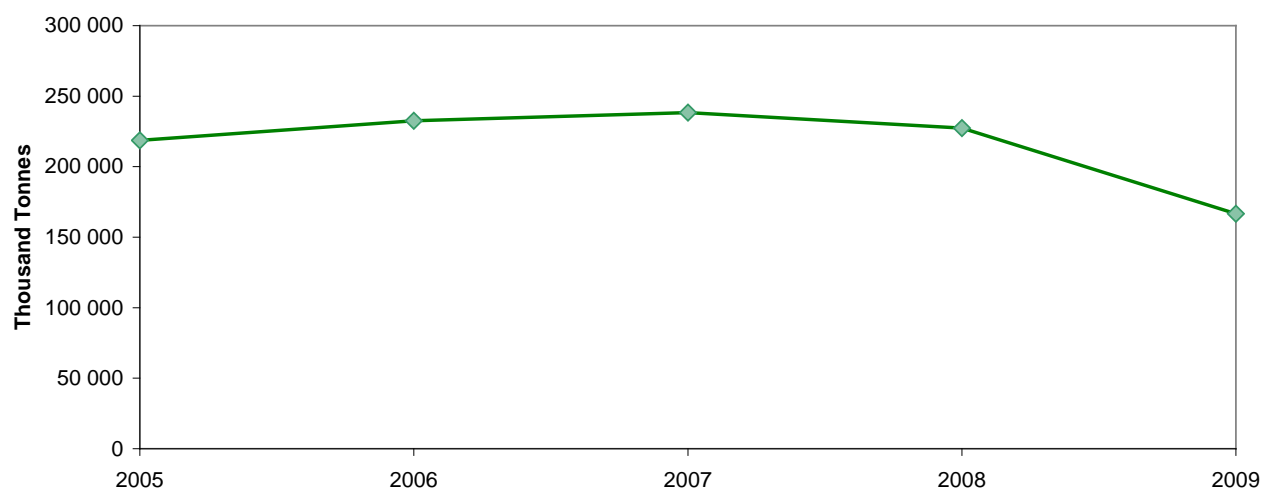
Production of crude steel

tonnes

Country	2005	2006	2007	2008	2009
Austria	7 031 000	7 129 000	7 577 000	7 593 000	5 662 000
Belgium	10 422 000	11 631 000	10 692 000	10 673 000	5 635 000
Bulgaria	1 969 000	2 102 000	1 909 000	1 330 000	726 000
Croatia	73 640	80 516	76 252	121 759	51 583
Czech Republic	6 189 000	6 862 000	7 059 000	6 387 000	4 594 000
Finland	4 738 446	5 053 714	4 430 726	4 416 792	3 078 000
France	19 480 777	19 852 125	19 249 862	17 879 161	12 840 108
Germany	44 524 000	47 223 000	48 550 000	45 832 000	32 670 000
Greece	2 266 000	2 416 000	2 554 000	2 477 000	2 000 000
Hungary	2 004 250	2 084 000	2 227 000	2 097 000	1 401 000
Italy	29 349 000	31 624 000	31 506 000	30 589 000	19 847 000
Latvia	550 000	* 690 000	* 696 000	* 635 000	* 692 000
Luxembourg	2 194 000	2 802 000	2 858 000	2 582 000	2 141 000
Macedonia	321 170	326 484	370 317	344 866	299 332
Netherlands	6 919 000	6 372 000	7 368 000	6 853 000	5 193 000
Norway	705 000	684 000	708 000	560 000	591 000
Poland	8 335 898	9 991 638	10 630 716	9 727 325	7 239 339
Portugal	1 338 000	1 338 000	1 847 000	1 630 000	1 587 000
Romania	6 280 000	6 266 036	6 269 486	5 035 164	2 761 000
Slovakia	4 485 000	5 093 000	5 082 000	4 489 000	3 747 000
Slovenia	583 000	628 000	638 000	642 000	428 000
Spain	17 825 000	18 391 000	18 998 000	18 640 000	14 357 000
Sweden	5 725 600	5 466 100	5 672 900	5 197 600	2 803 700
Switzerland	1 158 000	1 252 000	1 264 000	1 312 000	934 000
Turkey	20 961 240	23 307 523	25 760 889	26 809 050	25 303 741
United Kingdom	13 238 900	13 904 600	14 392 300	13 520 500	10 080 000
EU33 Total	218 667 000	232 570 000	238 386 000	227 373 000	166 662 000

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

EU33 Production of crude steel 2005 - 09

Ferro-alloys

- Ferro-alloys are alloys of iron with a number of metals, such as chromium, silicon or manganese. They are used as additives to steel with the object of modifying its properties. Silicon metal is included within the ferro-alloys table 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 world producer but in the EU33, Norway is the largest producer based on imported metal ores and indigenous resources of silica.

Production of ferro-alloys

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Ferro-molybdenum	5 000	5 000	5 000	4 500	4 000
Ferro-nickel	2 500	2 500	3 000	2 000	2 500
Ferro-vanadium	6 250	6 250	6 500	6 300	6 200
Bulgaria					
Ferro-silicon	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Czech Republic					
Ferro-vanadium	* 2 600	* 2 800	* 1 700	* 2 800	* 1 900
Finland					
Ferro-chrome	234 881	243 350	241 760	233 550	123 310
France					
Ferro-manganese & spiegeleisen	109 111	139 533	98 066	* 100 000	* 100 000
Ferro-silico-manganese	52 300	63 300	* 65 000	* 55 000	* 55 000
Ferro-silicon	* 67 000	* 67 000	* 71 000	* 22 000	* 20 000
Silicon metal	* 100 000	* 100 000	* 120 000	* 100 000	* 100 000
Germany					
Ferro-chrome	22 672	26 710	22 030	26 960	13 667
Other ferro-alloys	* 25 400	* 24 100	* 5 000	* 5 000	* 5 000
Silicon metal	29 349	29 865	29 379	29 092	27 620
Greece					
Ferro-nickel	* 96 000	* 89 000	93 300	83 200	41 300
Iceland					
Ferro-silicon	114 844	113 798	114 886	107 882	135 834
Italy					
Ferro-manganese	32 000	* 30 000	* 30 000	* 30 000	* 20 000
Ferro-silico-manganese	99 000	96 600	87 000	87 000	56 000
Macedonia					
Ferro-nickel	8 141	10 942	15 321	15 026	12 000
Ferro-silicon	71 249	59 023	78 892	97 605	7 657
Norway					
Ferro-manganese	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	288 137	325 708	293 699	273 485	* 250 000
Ferro-silicon	329 316	123 819	170 024	185 344	233 974
Other ferro-alloys	* 60 000	* 60 000	* 62 000	* 60 000	* 60 000
Silicon metal	178 572	* 150 000	* 140 000	* 155 000	* 150 000
Poland					
Ferro-manganese	7 782	4 089	2 093	8 475	1 736
Ferro-silico-manganese	10 242	3 310	15 590	25 061	72
Ferro-silicon	65 118	13 034	58 538	56 031	9 685
Other ferro-alloys	3 663	4 488	6 255	2 948	4 190
Romania					
Ferro-chrome	—	—	—	6 179	...
Ferro-manganese	18 625	3 777	—	—	—
Ferro-silico-manganese	100 957	66 476	26 868	9 979	...
Slovakia					
Ferro-chrome	867	19	—	—	—
Ferro-silico-manganese	47 843	59 128	71 587	59 940	...
Ferro-silicon	16 512	16 155	8 583	10 844	...
Other ferro-alloys	48 161	65 498	74 065	61 194	...
Slovenia					
Ferro-silicon	15 529	12 550	* 6 000	* —	* —

Iron, Steel and Ferro-Alloys

Production continued					tonnes
Country	2005	2006	2007	2008	2009
Spain					
Ferro-manganese	* 35 000	* 35 000	* 35 000	* 35 000	* 35 000
Ferro-silico-manganese	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Ferro-silicon	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Silicon metal	* 25 000	* 25 000	* 25 000	* 25 000	* 25 000
Sweden					
Ferro-chrome	127 500	136 400	124 400	118 700	* 50 000
Ferro-silicon	9 800	4 600	4 300	—	—
Turkey					
Ferro-chrome	26 043	67 975	69 730	75 840	41 028
Ferro-silico-chrome	6 695	7 310	6 624	6 094	2 903

Exports of iron, steel and ferro-alloys

					tonnes
Country	2005	2006	2007	2008	2009
Austria					
Pig iron	6 614	5 695	6 958	7 539	2 354
Ferro-alloys	9 476	10 218	9 100	7 541	5 953
Silicon metal	628	1 884	5 166	5 412	4 795
Ingots, blooms, billets	484 431	303 284	286 765	284 063	187 410
Scrap	1 024 301	1 140 091	1 279 775	1 351 725	1 067 926
Belgium-Luxembourg					
Pig iron	201 577	230 490	275 411	283 034	106 120
Sponge & powder	15 850	19 750	36 997	20 773	14 655
Ferro-chrome	31 851	38 401	54 201	38 927	20 403
Ferro-silico-chrome	9 107	17 169	15 141	12 463	15 645
Ferro-silico-magnesium	11	52	6 744	6 172	782
Ferro-manganese	11 674	11 122	16 126	24 024	9 923
Ferro-silico-manganese	29 858	41 422	52 431	40 777	31 374
Ferro-molybdenum	22 420	22 679	20 153	17 759	16 936
Ferro-silicon	21 812	39 501	68 385	54 905	47 214
Other ferro-alloys	6 689	6 498	1 988	5 401	1 651
Silicon metal	9 095	6 765	5 869	6 673	5 954
Ingots, blooms, billets	639 936	859 247	1 089 364	958 406	296 473
Scrap	2 712 683	3 052 438	3 268 578	3 754 867	3 360 083
Bulgaria					
Pig iron	51	44 549	62 032	23 553	1 420
Ferro-silico-manganese	1 501	3 638	6 845	288	...
Ferro-silicon	1 499	3 345	4 972	2 076	2 890
Other ferro-alloys	72	180	2 072	550	9 867
Silicon metal	15	11	2 374	46	...
Ingots, blooms, billets	97 757	163 020	135 710	85 466	54 115
Scrap	784 778	722 261	677 347	740 414	510 997
Croatia					
Scrap	318 840	398 070	427 540	357 487	302 085
Cyprus					
Scrap	55 240	65 998	63 662	72 106	80 349
Czech Republic					
Pig iron	15 526	17 599	31 182	30 457	24 041
Ferro-silicon	5 396	6 516	8 254	8 780	4 285
Ferro-vanadium	2 613	2 763	1 685	2 830	1 868
Other ferro-alloys	14 358	15 078	8 704	13 897	12 274
Silicon metal	512	1 040	1 118	1 375	783
Ingots, blooms, billets	251 513	324 619	587 296	500 423	222 780
Scrap	1 351 676	1 456 061	1 678 565	1 792 889	1 442 865
Denmark					
Ferro-silicon	23 295	14 611	64	70	85
Other ferro-alloys	139	238	701	585	330
Ingots, blooms, billets	1 203	2 199	12 820	16 775	13 287
Scrap	1 402 982	1 414 060	1 263 987	1 372 424	1 335 754

Exports continued						tonnes
Country	2005	2006	2007	2008	2009	
Estonia						
Pig iron	(f)* 200	...	(f)* 1 360	1	(f)* 1	
Ferro-alloys	665	672	159	153	100	
Ingots, blooms, billets	...	425	5 985	1 392	3 159	
Scrap	440 622	592 372	572 216	650 099	384 299	
Finland						
Pig iron	8 040	3 045	0	14 070	11 317	
Ferro-chrome	39 341	37 663	100 022	37 709	61 319	
Ingots, blooms, billets	436 083	284 313	185 229	281 325	253 440	
Scrap	286 494	220 124	253 732	308 047	276 010	
France						
Pig iron	350	113 729	89 768	88 462	151 699	
Sponge & powder	6 465	13 059	17 948	14 698	5 261	
Ferro-chrome	857	875	1 217	2 098	2 217	
Ferro-silico-magnesium	6 829	2 165	16 377	28 255	10 787	
Ferro-manganese	7 181	7 483	8 049	2 457	2 882	
Ferro-silico-manganese	76 021	53 278	41 110	42 260	41 324	
Ferro-molybdenum	547	673	481	374	379	
Ferro-niobium	240	596	948	984	261	
Ferro-silicon	69 551	63 432	50 334	73 824	51 676	
Ferro-titanium & ferro-silico-titanium	1 542	1 992	2 292	1 493	844	
Other ferro-alloys	27 432	22 699	357	150	10 612	
Ingots, blooms, billets	3 914 427	3 071 836	2 650 976	2 830 986	1 814 051	
Scrap	4 955 474	6 019 890	6 210 854	6 028 712	5 402 426	
Germany						
Pig iron	82 834	180 939	145 453	153 917	86 491	
Sponge & powder	175 291	197 636	147 303	95 846	28 183	
Ferro-chrome	26 472	36 289	39 892	36 856	27 831	
Ferro-silico-magnesium	14 254	12 142	24 051	22 191	9 323	
Ferro-manganese	12 660	24 659	14 733	11 802	9 043	
Ferro-silico-manganese	2 928	9 748	8 684	10 354	4 436	
Ferro-molybdenum	3 867	3 499	3 636	3 858	3 229	
Ferro-nickel	31	115	2 116	1 036	1 725	
Ferro-niobium	1 448	1 130	1 149	1 057	321	
Ferro-phosphorus	936	977	839	477	475	
Ferro-silicon	53 979	53 963	51 343	63 858	63 214	
Ferro-titanium & ferro-silico-titanium	5 263	4 795	6 011	4 237	1 662	
Ferro-tungsten & ferro-silico-tungsten	176	423	480	460	339	
Ferro-vanadium	528	268	558	413	755	
Other ferro-alloys	10 652	10 720	...	...	...
Ingots, blooms, billets	1 950 158	2 171 036	2 496 951	2 047 223	1 655 376	
Scrap	6 692 022	7 605 306	7 770 479	8 268 662	7 275 257	
Greece						
Ferro-alloys	1 044	511	340	3 671	377	
Ingots, blooms, billets	48	13 899	121 989	162 819	102 721	
Scrap	37 164	126 188	34 584	36 018	34 840	
Hungary						
Ferro-alloys	234	—	829	47	...	
Ingots, blooms, billets	24 923	14 731	36 548	90 282	4 315	
Scrap	761 464	658 499	567 923	691 805	636 805	
Iceland						
Ferro-silicon	125	103 572	117 230	105 868	1 129 930	
Silicon metal	4	—	15	—	200	
Scrap	36 624	28 908	68 014	60 287	38 075	
Ireland, Republic of						
Scrap	352 028	398 587	478 562	485 387	428 416	

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Italy					
Pig iron	15 740	22 114	50 789	36 137	61 761
Sponge & powder	163	194	1 097	615	452
Ferro-chrome	3 753	8 276	5 411	4 593	2 066
Ferro-silico-magnesium	30	93	2 061	1 681	673
Ferro-manganese	10 380	8 670	14 562	12 890	7 457
Ferro-silico-manganese	3 511	4 086	7 048	6 882	4 322
Ferro-molybdenum	90	174	68	277	1 266
Ferro-nickel	3 967	173	239	123	418
Ferro-silicon	5 035	4 457	7 113	7 094	6 395
Other ferro-alloys	996	1 986	84	95	68
Silicon metal	3 931	3 304	4 576	6 007	3 200
Ingots, blooms, billets	698 402	958 626	983 369	964 245	570 380
Scrap	185 688	190 139	240 735	387 528	325 026
Latvia					
Ingots, blooms, billets	667	2 626	4 371	4 010	2 323
Scrap	217 361	313 455	245 958	388 456	213 766
Lithuania					
Ferro-alloys	13 293	17 952	15 437	11 188	3 093
Scrap	599 084	681 692	661 349	659 646	422 436
Macedonia					
Ferro-silico-manganese	1 673	6 682	48 258	...	10 938
Ferro-nickel	34 419	45 058	71 189	...	...
Ferro-silicon	74 450	62 794	30 139	...	16 621
Scrap	85 745	98 763	124 200	104 326	59 407
Malta					
Scrap	5 252	19 012	28 083	25 379	27 775
Netherlands					
Pig iron	40 552	28 806	134 324	170 468	89 714
Sponge & powder	46 464	22 899	543	382	* 140
Ferro-chrome	81 105	92 920	94 048	103 036	62 439
Ferro-silico-chrome	508	299	25	15	...
Ferro-manganese	49 203	28 423	42 958	65 203	33 193
Ferro-silico-manganese	13 994	14 118	21 432	17 571	37 593
Ferro-molybdenum	4 304	5 652	5 579	3 150	1 894
Ferro-nickel	23 252	42 421	42 331	5 086	3 564
Ferro-niobium	126	217	1 439	1 736	925
Ferro-silicon	95 845	97 120	106 764	71 762	87 348
Ferro-titanium & ferro-silico-titanium	6 235	4 281	3 706	3 046	2 730
Ferro-tungsten & ferro-silico-tungsten	624	477	2 010	1 168	476
Ferro-vanadium	22 495	5 855	7 263	2 274	926
Other ferro-alloys	9 700	5 683	7 719	22 603	5 582
Silicon metal	40 393	56 525	15 237	15 547	46 466
Ingots, blooms, billets	152 593	378 061	1 111 462	806 999	157 861
Scrap	4 140 362	4 786 987	4 500 919	4 523 660	* 2 835 000
Norway					
Pig iron (a)	* 66 800	* 149 400	* 119 800	* 110 100	* 75 000
Ferro-chrome	(a)* 200	(a)* 200	(a)* 100	(a)* 75	—
Ferro-manganese (a)	* 274 200	* 287 500	* 329 400	* 354 000	* 203 000
Ferro-silico-manganese	289 497	306 932	280 028	257 804	200 279
Ferro-silicon	179 503	90 556	155 198	209 669	115 682
Other ferro-alloys	55 564	58 033	...	57 954	16 207
Silicon metal	168 790	152 514	144 607	155 385	109 254
Ingots, blooms, billets	151 882	180 500	176 755	62 625	106 505
Scrap	267 051	337 088	290 644	269 370	228 138
Poland					
Pig iron	4 917	19 286	7 481	5 189	10 543
Ferro-manganese & ferro-silico-manganese	22 713	11 954	20 412	37 978	21 640
Ferro-silicon	64 974	16 023	46 923	52 976	16 401
Other ferro-alloys	915	1 630	2 364	2 752	2 440
Ingots, blooms, billets	1 249 618	964 361	1 575 099	1 580 450	664 035
Scrap	1 426 831	1 197 827	1 199 620	1 368 952	978 862
Portugal					
Ingots, blooms, billets	159 868	79 697	138 692	164 425	136 284
Scrap	330 536	479 017	378 043	172 133	216 037

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Romania					
Pig iron	...	...	...	...	—
Sponge & powder	12 522	12 851	17 832	18 697	18 807
Ferro-silico-manganese	142 617	41 000	33 529	5 793	8 120
Other ferro-alloys	8 657	3 561	872	1 493	6 273
Ingots, blooms, billets	100 515	87 685	183 551	220 136	51 644
Scrap	1 661 747	1 862 498	1 963 213	1 985 977	2 565 443
Slovakia					
Pig iron	31 261	50 497	10 588	20 676	29 779
Ferro-manganese	41 918	59 475	49 723	48 747	19 204
Ferro-silico-manganese	51 623	73 050	62 898	55 873	37 792
Ferro-silicon	29 130	25 240	16 437	21 352	15 823
Other ferro-alloys	10 741	8 033	13 604	15 436	5 277
Ingots, blooms, billets	289 090	654 743	508 620	241 811	255 917
Scrap	390 620	524 597	404 401	525 777	318 290
Slovenia					
Pig iron	752	3 511	14 942	24 639	4 412
Ferro-silicon	24 290	26 859	15 277	20 826	6 628
Other ferro-alloys	27 120	22 497	24 205	12 516	9 989
Silicon metal	252	3 006	1 875	1 149	3 049
Ingots, blooms, billets	12 647	12 273	31 849	21 006	12 296
Scrap	225 627	222 403	245 869	199 016	284 958
Spain					
Pig iron	12 709	4 202	12 491	9 747	4 772
Sponge & powder	4 397	4 030	6 404	4 763	2 566
Ferro-chrome	775	1 024	2 461	4 768	367
Ferro-manganese	101 850	91 018	71 345	65 330	29 403
Ferro-silico-manganese	42 916	32 806	33 636	34 307	25 859
Ferro-molybdenum	331	317	70	45	242
Ferro-silicon	11 843	7 759	18 323	9 562	5 939
Other ferro-alloys	992	493	1 170	1 285	1 178
Silicon metal	16 742	16 566	16 175	16 008	5 571
Ingots, blooms, billets	118 414	114 897	91 085	310 671	261 758
Scrap	140 200	137 273	162 371	214 913	302 465
Sweden					
Pig iron	99 496	145 733	152 911	62 588	141 261
Sponge & powder	9 064	15 238	26 666	19 844	6 558
Ferro-chrome	1 801	1 973	2 247	3 534	3 368
Ferro-silico-magnesium	60	739	1 260	...	50
Ferro-manganese & ferro-silico-manganese	3 456	2 584	3 859	3 620	2 423
Ferro-molybdenum	158	157	304	301	193
Ferro-phosphorus	294	706	1 128	1 370	364
Ferro-silicon	731	1 968	2 892	2 616	3 004
Ferro-vanadium	249	61	135	112	250
Other ferro-alloys	1 171	1 289	216	895	280
Silicon metal	6 049	2 321	1 474	2 458	968
Ingots, blooms, billets	232 958	116 880	134 568	102 086	58 631
Scrap	863 474	847 179	1 069 335	1 449 311	1 439 126
Switzerland					
Sponge & powder	2 222	2 233	2 537	2 126	1 564
Ferro-alloys	867	616	653	642	943
Ingots, blooms, billets	83 219	88 289	104 433	65 257	48 349
Scrap	561 972	582 567	585 342	636 462	565 415
Turkey					
Pig iron	9 358	1 150	—	10 372	10 616
Ferro-chrome	39 038	60 952	63 209	39 324	75 236
Other ferro-alloys	1 356	1 747	7 122	5 682	6 199
Ingots, blooms, billets	2 174 257	1 630 209	1 660 642	2 501 135	2 431 211
Scrap	64 281	44 474	29 237	77 654	66 673

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
United Kingdom					
Pig iron	1 387	5 407	15 892	2 523	27 765
Sponge & powder	3 605	2 346	4 969	2 794	3 103
Ferro-chrome & ferro-silico-chrome	6 238	4 066	2 973	1 385	1 525
Ferro-silico-magnesium	542	653	917	976	1 373
Ferro-manganese	661	946	1 136	1 210	963
Ferro-silico-manganese	5 003	60	7	49	129
Ferro-molybdenum	11 501	12 004	11 823	11 283	7 634
Ferro-nickel	55	329	52	81	18
Ferro-niobium	79	74	49	58	52
Ferro-phosphorus	189	36	33	45	312
Ferro-silicon	2 652	2 733	2 314	3 250	3 338
Ferro-titanium & ferro-silico-titanium	17 361	17 645	19 515	18 557	13 098
Ferro-tungsten & ferro-silico-tungsten	37	17	8	31	1
Ferro-vanadium	157	151	96	79	64
Other ferro-alloys	6 167	4 327	3 867	5 002	2 142
Silicon metal	2 466	6 963	11 325	151 132	7 753
Ingots, blooms, billets	2 246 377	2 692 654	3 514 850	3 348 794	2 118 701
Scrap	6 105 955	7 407 174	6 013 907	6 616 708	6 007 656

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) BGS estimates, based on known imports into certain countries

Imports of iron, steel and ferro-alloys

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Pig iron	51 982	40 133	69 614	43 663	30 084
Sponge & powder	25 214	20 542	31 775	56 471	13 980
Ferro-chrome	41 046	34 196	49 977	47 748	20 400
Ferro-silico-magnesium	678	522	1 746	2 021	1 843
Ferro-manganese	37 865	29 385	38 857	36 491	18 962
Ferro-silico-manganese	26 572	22 456	30 340	22 322	17 927
Ferro-molybdenum	617	1 632	1 370	1 552	801
Ferro-niobium	899	955	956	1 125	665
Ferro-phosphorus	1 749	1 520	1 692	2 011	1 095
Ferro-silicon	32 445	25 609	26 180	27 850	12 825
Ferro-titanium & ferro-silico-titanium	1 121	1 081	793	879	388
Ferro-tungsten & ferro-silico-tungsten	535	677	796	1 277	208
Ferro-vanadium	256	100	186	289	32
Other ferro-alloys	1 554	1 611	7	61	1
Silicon metal	11 698	12 937	16 581	15 601	7 288
Ingots, blooms, billets	108 004	132 901	208 910	191 426	46 762
Scrap	1 113 082	1 089 942	1 371 393	1 629 170	1 196 327

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Pig iron	330 709	560 116	552 212	548 129	282 010
Sponge & powder	48 915	102 543	33 539	22 021	19 441
Ferro-chrome	220 896	342 280	452 118	378 018	185 436
Ferro-silico-chrome	9 587	19 190	17 149	15 483	0
Ferro-silico-magnesium	1 656	2 040	12 168	10 433	5 000
Ferro-manganese	60 564	54 402	65 987	89 088	22 459
Ferro-silico-manganese	60 454	69 526	149 121	92 194	62 548
Ferro-molybdenum	5 199	5 929	5 405	2 339	2 225
Ferro-nickel	61 454	73 384	90 808	89 430	46 248
Ferro-niobium	849	936	3 252	2 003	1 225
Ferro-phosphorus	1 700	1 607	2 185	10 421	3 124
Ferro-silicon	79 901	109 389	150 254	126 700	65 734
Ferro-titanium & ferro-silico-titanium	2 141	3 016	3 553	5 595	2 182
Ferro-vanadium	650	338	615	693	396
Other ferro-alloys	7 499	6 887	—	—	160
Silicon metal	18 563	20 117	17 307	20 098	19 002
Ingots, blooms, billets	3 452 850	2 876 977	3 500 081	3 540 429	2 331 000
Scrap	3 761 788	4 297 928	7 416 312	8 095 587	5 508 621
Bulgaria					
Pig iron	19 624	15 278	26 932	27 941	6 736
Sponge & powder	384	542	31 306	1 282	14 572
Ferro-chrome	836	1 088	916	656	182
Ferro-manganese	5 540	6 133	7 981	4 206	3 137
Ferro-silico-manganese	666	1 885	3 336	4 325	3 479
Ferro-silicon	3 897	4 410	2 977	3 331	1 152
Other ferro-alloys	1 140	1 789	2 390	1 906	1 033
Silicon metal	585	9 733	873	763	247
Ingots, blooms, billets	275 001	417 485	462 348	567 381	306 020
Scrap	108 450	188 698	295 555	237 055	202 276
Croatia					
Pig iron	15 270	16 994	17 011	15 031	8 420
Ferro-alloys	2 893	3 031	3 027	4 790	2 239
Ingots, blooms, billets	12 421	27 291	20 953	20 077	19 396
Scrap	18 407	17 563	29 553	19 400	10 628
Czech Republic					
Pig iron	88 549	150 032	108 715	111 872	47 666
Sponge & powder	6 130	10 136	20 580	24 791	10 006
Ferro-chrome	16 772	20 492	34 123	26 043	14 715
Ferro-silico-magnesium	941	1 236	6 297	5 778	3 192
Ferro-manganese	30 921	32 355	35 500	33 704	23 630
Ferro-silico-manganese	53 258	57 857	52 153	48 962	34 418
Ferro-molybdenum	1 744	1 889	2 025	2 049	949
Ferro-silicon	34 114	36 361	41 482	37 230	23 936
Ferro-vanadium	564	429	440	578	299
Other ferro-alloys	10 018	9 080	1 697	1 644	836
Silicon metal	2 589	4 986	6 584	5 826	4 408
Ingots, blooms, billets	484 450	409 753	445 181	525 598	220 524
Scrap	392 135	560 676	521 779	502 256	377 942
Denmark					
Pig iron	12 720	18 128	18 349	14 064	10 299
Sponge & powder	29 188	80 148	61 079	3 602	1 742
Ferro-silico-magnesium	—	1 322	1 795	1 465	348
Ferro-silicon	2 548	4 069	1 887	1 702	569
Other ferro-alloys	1 345	1 771	595	1 080	217
Silicon metal	659	1 586	741	263	65
Ingots, blooms, billets	551 407	588 053	780 837	672 439	328 893
Scrap	313 558	238 142	213 776	392 453	269 841
Estonia					
Ferro-alloys	2 125	1 815	1 240	1 114	305
Scrap	111 930	64 110	53 155	37 774	9 267

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Finland					
Pig iron	27 160	45 364	53 901	42 681	18 097
Sponge & powder	969	779 146	880 575	942 664	493 087
Ferro-chrome	7 404	17 926	9 650	11 182	5 094
Ferro-manganese	14 728	14 828	18 138	15 709	5 985
Ferro-silico-manganese	38 375	38 440	34 994	34 139	20 642
Ferro-molybdenum	2 293	1 948	1 892	1 730	584
Ferro-nickel	47 531	53 741	54 106	50 294	17 098
Ferro-niobium	478	493	570	757	318
Ferro-phosphorus	489	550	560	380	285
Ferro-silicon	25 723	36 659	31 814	29 740	21 437
Ferro-titanium & ferro-silico-titanium	1 912	1 558	1 707	1 857	710
Other ferro-alloys	4 849	4 252	4 300	4 193	1 428
Silicon metal	1 306	1 402	1 318	1 638	548
Ingots, blooms, billets	51 678	5 138	7 649	11 114	30 206
Scrap	756 267	1 013 675	687 887	596 792	467 642
France					
Pig iron	249 585	183 755	195 466	202 077	115 722
Sponge & powder	184 661	219 813	147 662	89 809	26 695
Ferro-chrome	192 129	159 940	106 513	111 584	71 570
Ferro-silico-chrome	122	677	8	69	20
Ferro-silico-magnesium	25 046	18 536	26 899	26 786	12 067
Ferro-manganese	55 239	57 240	63 487	69 464	33 948
Ferro-silico-manganese	58 403	49 287	45 827	54 004	34 758
Ferro-molybdenum	5 235	5 223	5 650	5 637	3 263
Ferro-nickel	9 229	4 487	6 373	5 887	12 709
Ferro-niobium	2 722	2 597	2 785	3 266	1 183
Ferro-phosphorus	2 536	2 360	2 528	2 698	1 670
Ferro-silicon	71 269	64 727	52 945	61 740	30 913
Ferro-titanium & ferro-silico-titanium	6 448	9 037	10 009	8 293	2 647
Ferro-tungsten & ferro-silico-tungsten	523	839	597	666	247
Ferro-vanadium	1 351	1 396	1 432	1 575	819
Silicon metal	25 257	21 813	19 659	23 885	15 243
Ingots, blooms, billets	1 621 219	1 557 219	1 998 943	1 747 005	1 113 710
Scrap	2 819 160	3 319 269	3 197 843	3 241 199	2 407 619
Germany					
Pig iron	320 481	422 525	655 022	713 470	402 132
Sponge & powder	156 048	193 503	249 673	90 069	294 393
Ferro-chrome	454 703	458 070	484 276	544 619	305 008
Ferro-silico-chrome	1 429	12 867	14 426	12 886	8 648
Ferro-silico-magnesium	6 831	23 761	25 758	23 645	12 238
Ferro-manganese	170 967	195 387	217 428	209 083	122 063
Ferro-silico-manganese	172 967	181 726	210 703	156 484	111 008
Ferro-molybdenum	15 594	17 473	18 423	17 434	12 484
Ferro-nickel	157 091	150 789	169 677	177 851	127 087
Ferro-niobium	4 361	6 063	6 176	6 269	4 047
Ferro-phosphorus	4 985	5 575	6 519	4 801	1 332
Ferro-silicon	238 120	214 736	274 783	215 374	146 127
Ferro-titanium & ferro-silico-titanium	10 302	13 492	15 339	13 824	5 461
Ferro-tungsten & ferro-silico-tungsten	600	990	1 512	2 182	1 366
Ferro-vanadium	4 843	5 171	5 711	5 333	3 421
Other ferro-alloys	13 323	13 698	—	—	13 571
Silicon metal	156 690	184 499	190 933	225 185	183 516
Ingots, blooms, billets	2 331 264	2 578 298	3 095 162	2 970 042	1 171 865
Scrap	5 026 286	5 592 745	5 920 061	5 675 167	3 865 110
Greece					
Pig iron	6 415	9 172	10 461	9 185	9 107
Sponge & powder	3 374	492	6 741	7 709	9 685
Ferro-chrome	674	871	1 016	1 146	916
Ferro-manganese	1 293	640	2 654	1 753	1 216
Ferro-silico-manganese	31 657	31 524	38 321	24 943	8 023
Ferro-silicon	6 339	4 694	18 783	8 170	4 569
Other ferro-alloys	474	444	546	504	170
Silicon metal	1 126	1 408	1 383	2 312	906
Ingots, blooms, billets	90 412	120 241	250 572	171 231	159 350
Scrap	1 545 912	1 517 545	1 637 437	1 485 316	1 159 166

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Hungary					
Pig iron	8 808	14 821	13 285	12 951	3 403
Ferro-manganese	2 898	15 611	4 311	4 318	2 037
Ferro-silico-manganese	1 368	3 303	4 168	4 661	922
Ferro-silicon	5 013	4 821	5 907	5 232	3 100
Other ferro-alloys	4 049	1 677	1 535	13 393	15 780
Silicon metal	2 260	4 847	2 982	2 184	2 589
Ingots, blooms, billets	102 861	38 956	29 820	273 585	104 855
Scrap	45 860	65 136	87 369	146 494	34 357
Iceland					
Pig iron	1 195	956	502	1 128	1 333
Ferro-alloys	13	43	63	113	5 641
Silicon metal	220	364	466	1 614	237
Ingots, blooms, billets	2 569	1 647	4 352	1 361	1 528
Ireland, Republic of					
Pig iron	3 215	2 710	939	2 359	1 202
Ferro-alloys	475	401	464	370	737
Ingots, blooms, billets	1 637	7 928	8 319	5 459	5 373
Scrap	1 137	3 650	4 179	4 206	4 388
Italy					
Pig iron	1 729 086	1 791 165	2 235 376	2 238 037	895 818
Sponge & powder	424 810	468 825	465 834	396 660	174 364
Ferro-chrome	428 716	464 364	419 392	389 002	296 813
Ferro-silico-magnesium	5 409	6 809	16 751	15 716	6 026
Ferro-manganese	84 920	95 010	108 976	96 771	46 537
Ferro-silico-manganese	174 391	216 632	229 755	186 135	119 670
Ferro-molybdenum	7 294	7 469	7 433	8 318	3 998
Ferro-nickel	141 603	129 870	91 651	104 198	78 383
Ferro-niobium	2 457	2 194	2 783	2 733	1 395
Ferro-phosphorus	987	547	721	488	550
Ferro-silicon	141 789	147 121	154 797	122 236	89 909
Ferro-titanium & ferro-silico-titanium	3 978	3 922	4 230	3 861	4 462
Ferro-tungsten & ferro-silico-tungsten	208	307	385	578	300
Ferro-vanadium	1 945	1 839	2 521	2 445	1 158
Other ferro-alloys	11 799	9 727	1	243	—
Silicon metal	49 129	51 696	57 854	57 493	27 402
Ingots, blooms, billets	4 310 404	5 792 203	5 991 974	5 311 325	2 655 726
Scrap	5 367 259	5 668 405	5 242 020	5 705 462	3 321 387
Latvia					
Pig iron	54 639	57 696	65 437	56 964	38 140
Sponge & powder	350	112	131	19	14 931
Ferro-chrome (a)	* 3	* 3	* 20	* 130	* 9 050
Ferro-manganese	3 119	3 281	3 021	10 334	2 345
Ferro-silico-manganese	5 024	5 628	14 947	23 477	14 722
Ferro-silicon	3 876	2 550	3 086	18 466	15 085
Other ferro-alloys	201	416	372	132	415
Silicon metal	1 711	1 409	656	467	783
Ingots, blooms, billets	206 550	145 037	158 649	146 505	226 967
Scrap	161 538	266 616	294 904	412 240	214 564
Lithuania					
Ferro-chrome	5 210	6 140	9 705	9 634	2 842
Ferro-silico-manganese	3 153	6 864	5 983	...	...
Other ferro-alloys	3 047	1 413	437	457	114
Ingots, blooms, billets	4 279	5 260	6 011	9 661	1 229
Scrap	74 816	103 878	64 661	64 462	29 805
Macedonia					
Pig iron	1 970	3 781	2 467	2 609	1 732
Ferro-alloys	2 786	2 860	3 737	3 402	1 618
Ingots, blooms, billets	226 286	359 029	501 134	482 294	157 566
Scrap	264 067	277 360	310 410	255 543	7 375

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Netherlands					
Pig iron	107 828	122 097	158 199	292 867	122 185
Sponge & powder	131 170	251 304	244 874	253 882	109 768
Ferro-chrome	170 806	204 637	325 741	275 995	40 931
Ferro-silico-chrome	621	1 125	674	1	1 394
Ferro-manganese	115 972	102 493	105 789	96 135	39 045
Ferro-silico-manganese	30 114	47 986	81 034	70 108	29 335
Ferro-molybdenum	5 100	7 554	11 826	8 566	2 868
Ferro-nickel	39 305	17 866	16 878	17 602	4 274
Ferro-niobium	51	159	465	2 074	949
Ferro-silicon	145 459	122 016	160 792	114 290	79 461
Ferro-titanium & ferro-silico-titanium	11 496	11 005	10 730	6 781	1 860
Ferro-tungsten & ferro-silico-tungsten	1 148	965	1 186	1 572	554
Ferro-vanadium	5 100	4 409	4 132	2 042	519
Other ferro-alloys	7 412	25 282	12 829	30 407	6 951
Silicon metal	52 931	69 104	68 719	57 446	41 740
Ingots, blooms, billets	322 908	390 652	269 481	283 834	110 561
Scrap	2 030 115	2 321 144	1 669 159	1 842 597	* 1 135 000
Norway					
Pig iron	10 841	12 813	11 335	11 198	10 639
Sponge & powder	13 729	320	2 355	1 589	292
Ferro-chrome	1 251	1 440	1 303	929	1 162
Ferro-manganese	6 154	5 328	10 639	7 448	6 608
Ferro-silico-manganese	1 071	2 729	1 034	1 960	1 186
Ferro-silicon	25 663	26 931	43 350	13 502	9 097
Other ferro-alloys	1 877	3 392	3 681	2 471	926
Silicon metal	26 714	37 439	39 961	40 878	29 810
Ingots, blooms, billets	142 986	161 778	195 928	167 309	59 344
Scrap	345 634	313 184	267 085	96 427	91 114
Poland					
Pig iron	239 240	220 163	228 445	236 682	156 970
Sponge & powder	24 490	12 448	10 282	8 390	4 677
Ferro-chrome	10 863	12 318	14 113	13 713	6 064
Ferro-silico-magnesium	3 410	4 035	9 102	8 194	5 379
Ferro-manganese	29 230	35 508	42 352	31 876	32 935
Ferro-silico-manganese	51 197	63 332	79 942	47 964	71 585
Ferro-molybdenum	1 178	1 168	1 527	1 554	711
Ferro-phosphorus	1 056	1 195	1 492	1 386	675
Ferro-silicon	22 769	24 986	24 846	20 424	16 132
Ferro-vanadium	313	480	445	418	313
Other ferro-alloys	7 405	10 291	639	599	444
Silicon metal	9 243	11 935	13 946	11 652	11 839
Ingots, blooms, billets	298 314	569 057	679 404	584 305	157 799
Scrap	238 113	289 956	313 907	465 978	596 733
Portugal					
Pig iron	19 713	15 149	17 468	13 824	7 507
Sponge & powder	844	866	1 498	740	38 849
Ferro-chrome	884	1 160	1 050	1 093	245
Ferro-silico-magnesium	1 028	1 005	6 070	6 228	4 551
Ferro-manganese	885	816	1 281	908	762
Ferro-silico-manganese	10 021	12 779	9 835	10 063	9 921
Ferro-silicon	3 028	3 341	3 355	3 479	3 707
Other ferro-alloys	5 389	7 270	187	393	69
Silicon metal	128	548	425	187	410
Ingots, blooms, billets	10 538	14 494	84 769	26 532	53 089
Scrap	653 988	1 056 949	1 075 517	1 128 391	887 110
Romania					
Pig iron	19 339	9 872	53 779	37 889	61 027
Sponge & powder	1 231	1 415	2 446	3 203	1 518
Ferro-chrome	5 286	3 022	2 838	3 423	984
Ferro-manganese	38 323	36 872	34 126	28 773	9 063
Ferro-silico-manganese	18 752	18 432	37 558	17 919	11 461
Ferro-silicon	17 170	17 152	21 156	13 190	4 998
Other ferro-alloys	3 048	3 167	3 191	2 412	1 508
Silicon metal	2 813	8 947	1 192	3 155	1 104
Ingots, blooms, billets	448 454	633 196	922 499	757 551	109 046
Scrap	545	9 867	15 771	17 886	4 204

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Slovakia					
Pig iron	39 400	59 145	59 778	70 034	19 468
Sponge & powder	13 852	25 064	52 697	* 144 000	4 090
Ferro-chrome	2 630	2 597	9 818	7 539	2 635
Ferro-manganese	14 245	23 409	20 410	19 503	16 912
Ferro-silico-manganese	1 480	3 016	977	2 776	2 720
Ferro-niobium	393	849	906	897	154
Ferro-silicon	21 742	19 395	26 142	23 747	14 970
Other ferro-alloys	4 044	5 216	3 874	5 408	1 747
Silicon metal	6 279	5 416	6 004	6 391	4 460
Ingots, blooms, billets	10 753	17 086	20 708	18 953	54 781
Scrap	197 550	243 822	257 815	217 558	164 985
Slovenia					
Pig iron	32 217	70 254	102 973	68 153	24 031
Ferro-chrome	23 308	26 992	23 645	25 665	15 951
Ferro-manganese	4 410	4 467	6 061	5 663	4 157
Ferro-silico-manganese	2 443	3 691	4 789	3 373	3 467
Ferro-molybdenum	550	539	569	540	410
Ferro-nickel	2 321	2 457	2 364	538	...
Ferro-silicon	13 486	17 937	14 017	24 651	11 335
Other ferro-alloys	8 111	10 027	4 914	5 402	2 581
Silicon metal	6 393	9 945	7 654	6 536	4 929
Ingots, blooms, billets	3 505	3 444	11 479	12 930	1 568
Scrap	434 585	434 330	363 362	367 968	281 950
Spain					
Pig iron	806 327	793 050	652 786	688 421	380 731
Sponge & powder	516 423	641 804	611 893	621 627	295 665
Ferro-chrome	200 543	253 172	1 123 216	203 518	113 275
Ferro-silico-magnesium	5 256	2 891	7 289	9 890	5 818
Ferro-manganese	16 489	14 406	24 599	17 126	13 357
Ferro-silico-manganese	66 531	42 326	48 205	74 962	50 683
Ferro-molybdenum	6 327	10 473	5 863	3 777	3 756
Ferro-nickel	59 113	92 147	75 625	68 355	43 936
Ferro-niobium	906	515	8 283	685	553
Ferro-phosphorus	2 036	1 771	2 554	1 488	193
Ferro-silicon	39 623	52 215	71 487	46 445	27 140
Ferro-titanium & ferro-silico-titanium	1 880	796	1 276	1 006	611
Ferro-vanadium	824	515	1 189	1 122	809
Other ferro-alloys	6 546	4 586	82	4 378	360
Silicon metal	4 160	2 837	3 640	8 856	9 523
Ingots, blooms, billets	1 219 342	1 601 769	1 733 247	1 587 605	1 007 820
Scrap	6 975 101	7 437 224	6 316 516	7 408 237	4 674 099
Sweden					
Pig iron	38 223	43 492	59 661	80 450	40 076
Sponge & powder	2 091	7 346	16 799	11 861	2 691
Ferro-chrome	86 040	86 160	125 057	114 712	78 244
Ferro-silico-chrome	2 030	1 370	3 104	3 873	1 215
Ferro-manganese	43 005	49 295	75 409	68 246	27 869
Ferro-silico-manganese	18 995	20 566	17 085	10 677	5 754
Ferro-molybdenum	5 364	4 976	4 377	5 693	2 652
Ferro-nickel	7 431	8 076	9 162	6 803	3 286
Ferro-niobium	1 156	1 504	1 242	1 264	604
Ferro-phosphorus	314	433	1 331	386	430
Ferro-silicon	48 950	37 095	42 315	34 249	25 880
Ferro-titanium & ferro-silico-titanium	3 212	1 681	691	1 370	653
Ferro-tungsten & ferro-silico-tungsten	195	119	105	153	30
Ferro-vanadium	1 316	1 202	1 005	956	547
Other ferro-alloys	5 574	5 860	5 986	8 916	2 154
Silicon metal	10 832	7 531	6 756	7 631	4 404
Ingots, blooms, billets	294 616	108 821	137 032	264 782	119 549
Scrap	254 358	279 956	242 167	193 207	174 279

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

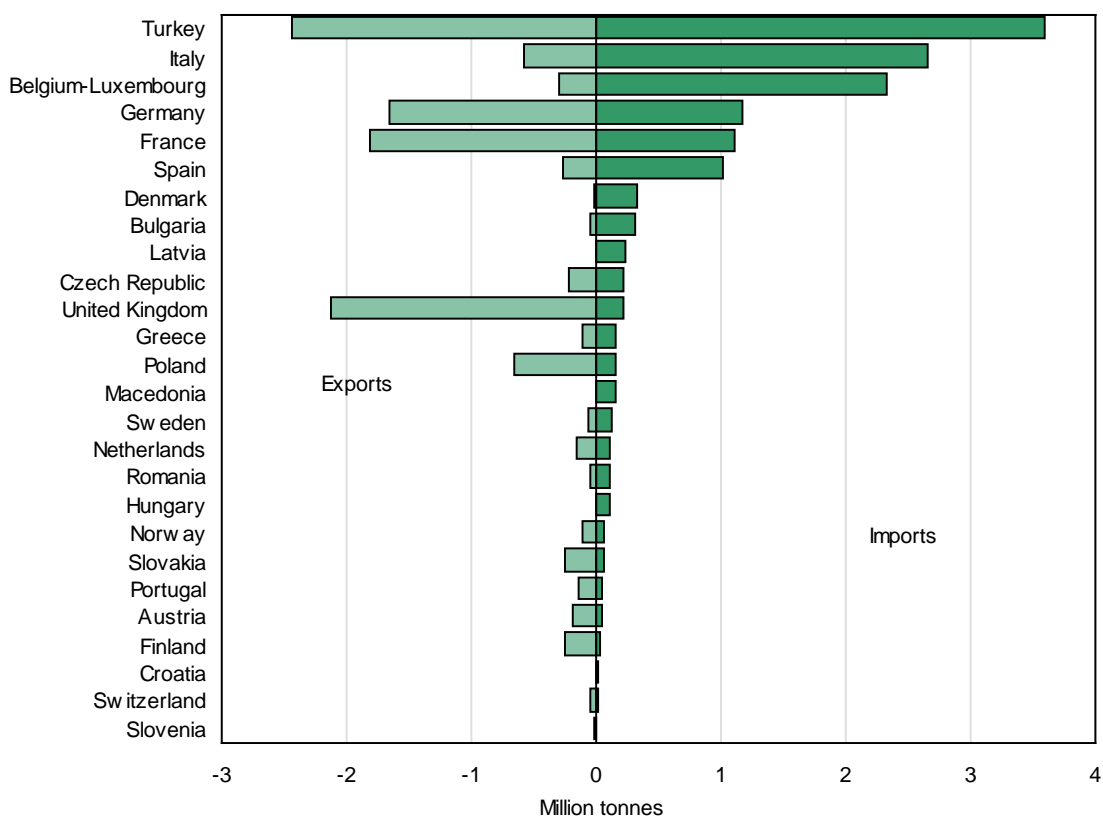
Country	2005	2006	2007	2008	2009
Switzerland					
Pig iron	24 628	24 497	28 095	28 630	12 256
Sponge & powder	9 035	8 900	9 685	8 873	5 931
Ferro-chrome	1 203	1 306	1 834	1 803	288
Ferro-manganese	9 033	10 423	9 922	11 696	8 003
Ferro-silico-manganese	4 341	3 717	5 992	5 011	1 595
Ferro-silicon	4 630	7 122	5 287	5 264	4 287
Other ferro-alloys	1 602	1 435	1 478	1 086	611
Silicon metal	1 135	1 164	1 508	1 255	1 256
Ingots, blooms, billets	38 694	47 524	50 301	29 911	9 188
Scrap	390 607	499 914	475 542	505 597	313 055
Turkey					
Pig iron	396 658	333 981	338 641	802 741	770 160
Sponge & powder	68 952	34 440	19 801	96 393	81 008
Ferro-chrome	5 443	4 610	11 138	11 321	2 787
Ferro-manganese	43 743	60 213	56 619	73 319	46 760
Ferro-silico-manganese	159 496	216 036	236 039	195 623	191 605
Ferro-molybdenum	1 253	1 020	1 628	1 645	1 173
Ferro-niobium	433	435	446	609	338
Ferro-phosphorus	1 710	919	246	1 731	412
Ferro-silicon	58 007	72 599	100 758	90 477	60 164
Ferro-titanium & ferro-silico-titanium	447	649	616	634	651
Ferro-vanadium	426	483	472	529	323
Other ferro-alloys	5 983	7 357	9 642	12 345	6 060
Silicon metal	4 794	5 233	2 530	6 207	5 852
Ingots, blooms, billets	1 816 973	1 504 374	1 930 627	3 849 141	3 590 665
Scrap	13 010 728	12 860 533	13 335 810	17 414 983	15 372 727
United Kingdom					
Pig iron	102 531	81 689	89 863	61 657	19 703
Sponge & powder	21 914	34 768	11 766	27 003	17 483
Ferro-chrome	63 478	52 494	46 975	79 692	34 884
Ferro-silico-chrome	728	350	1 242	128	26
Ferro-silico-magnesium	5 448	3 810	2 303	1 614	1 535
Ferro-manganese	79 045	86 598	100 694	96 461	49 700
Ferro-silico-manganese	57 136	59 985	56 036	52 966	74 227
Ferro-molybdenum	861	640	515	369	327
Ferro-nickel	11 325	13 169	14 960	16 520	2 777
Ferro-niobium	1 175	1 098	1 490	1 189	686
Ferro-phosphorus	3 261	386	2 070	2 473	282
Ferro-silicon	116 450	64 610	66 838	59 438	31 091
Ferro-titanium & ferro-silico-titanium	1 883	1 087	1 677	1 290	396
Ferro-vanadium	609	1 623	755	543	209
Other ferro-alloys	2 499	2 399	3 281	2 264	3 090
Silicon metal	77 103	29 512	25 787	56 807	67 882
Ingots, blooms, billets	722 452	1 053 176	849 803	679 019	212 829
Scrap	180 261	154 967	204 100	228 294	213 818

Note(s)

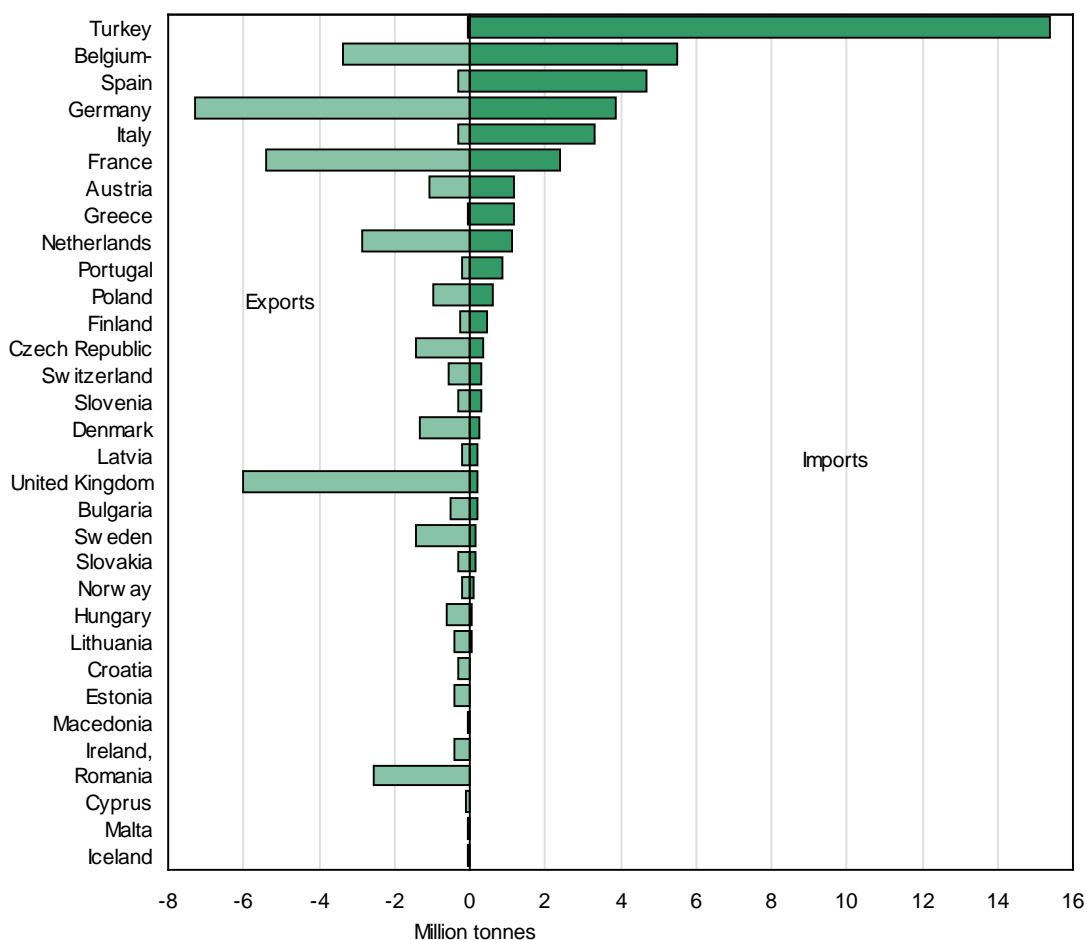
(1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

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

Iron and steel ingots, blooms and billets - EU33 trade in 2009



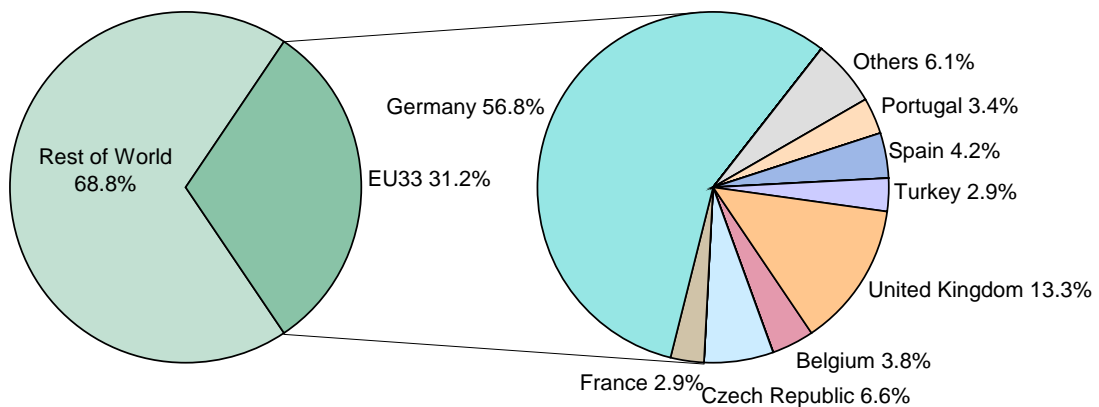
Iron and steel scrap - EU33 trade in 2009



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, with up to 30 per cent of printing paper can be kaolin.
- Kaolin production is fairly stable in the EU33 countries, which in 2009 produced 31.2 per cent of world kaolin. Germany and the UK are the two largest producers in the EU33 and are the second and sixth biggest producers in the world, respectively. The USA was the world's largest producer in 2009, with 20 per cent of the total.

EU33 Production of kaolin 2009



Production of kaolin

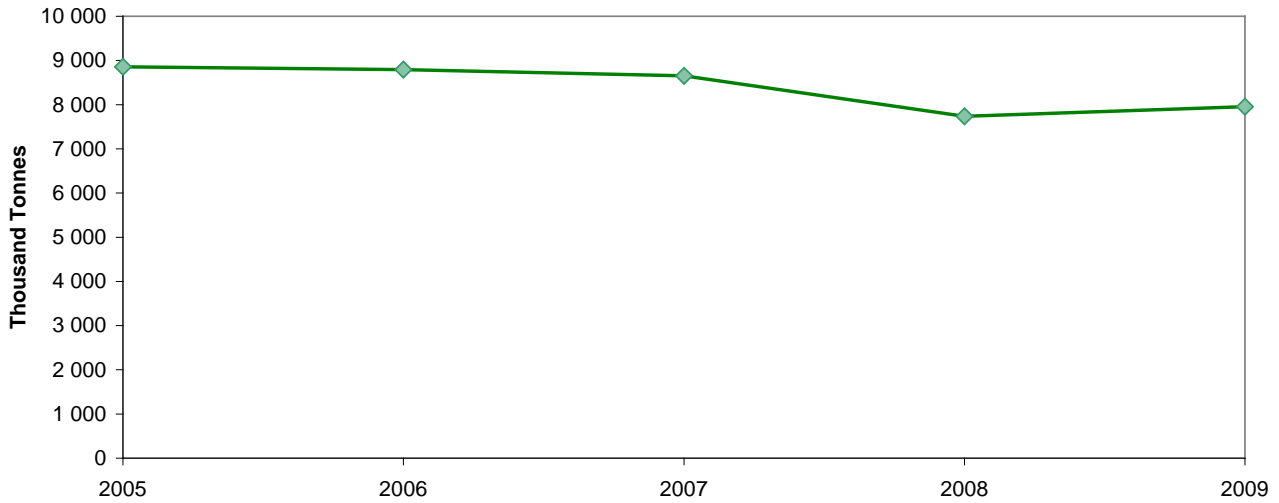
Country	2005	2006	2007	2008	2009
Austria	16 410	17 431	16 929	16 460	18 148
Belgium	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Bulgaria	* 200 000	* 240 000	* 240 000	* 220 000	* 140 000
Czech Republic (a)	649 000	673 000	682 000	672 000	525 000
France	319 464	* 300 000	(c) 350 742	(c) 335 520	(c) 227 342
Germany (b)	3 767 662	3 815 173	3 842 514	3 622 159	4 513 753
Greece	49 912	* 40 000	30 000	4 360	—
Hungary	1 300	1 350	2 136	—	—
Italy	183 804	* 180 000	* 180 000	* 180 000	* 180 000
Poland (d)	159 207	148 579	153 670	165 615	136 561
Portugal	164 072	167 792	183 598	231 346	270 450
Romania	26 772	11 063	7 576	3 060	...
Slovakia	31 000	58 000	46 000	44 000	10 000
Spain (d)	463 398	476 327	489 428	355 739	337 900
Turkey	615 271	* 600 000	456 238	232 746	234 614
United Kingdom (d) (e)	1 910 874	1 762 328	1 671 426	1 355 365	1 059 848
EU33 Total	8 900 000	8 800 000	8 700 000	7 700 000	8 000 000

Note(s)

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

- (a) Beneficiated
 (b) Washed and dried
 (c) Sales
 (d) Washed
 (e) Dry weight

EU33 Production of kaolin 2005 - 09



Exports of kaolin

tonnes

Country	2005	2006	2007	2008	2009
Austria	3 019	3 649	2 292	2 445	8 954
Belgium-Luxembourg	777 451	628 479	612 062	1 030 344	783 924
Bulgaria	124 899	149 559	160 372	139 069	119 736
Czech Republic	268 850	261 019	173 251	233 819	174 814
Denmark	637	443	351	486	352
Finland	7 378	8 373	10 597	8 587	13 832
France	421 927	968 538	412 284	319 301	268 674
Germany	301 870	463 804	507 867	498 165	374 313
Greece	129	472	276	384	225
Hungary	6 252	3 781	3 762	3 110	2 847
Italy	40 800	17 287	16 265	13 627	21 392
Netherlands	441 248	431 027	416 108	72 264	33 563
Norway	768	132	47	47	271
Poland	6 194	7 177	10 401	8 936	11 515
Portugal	31 484	46 494	70 580	47 562	51 014
Slovakia	2 332	10 946	12 546	593	1 425
Spain	192 735	213 955	199 541	155 563	156 915
Sweden	18 473	15 735	18 229	30 495	31 122
Switzerland	246	433	786	128	203
Turkey	177 881	192 298	132 834	130 923	61 828
United Kingdom (a)	1 698 747	1 566 025	1 490 416	1 188 267	932 180

Note(s)

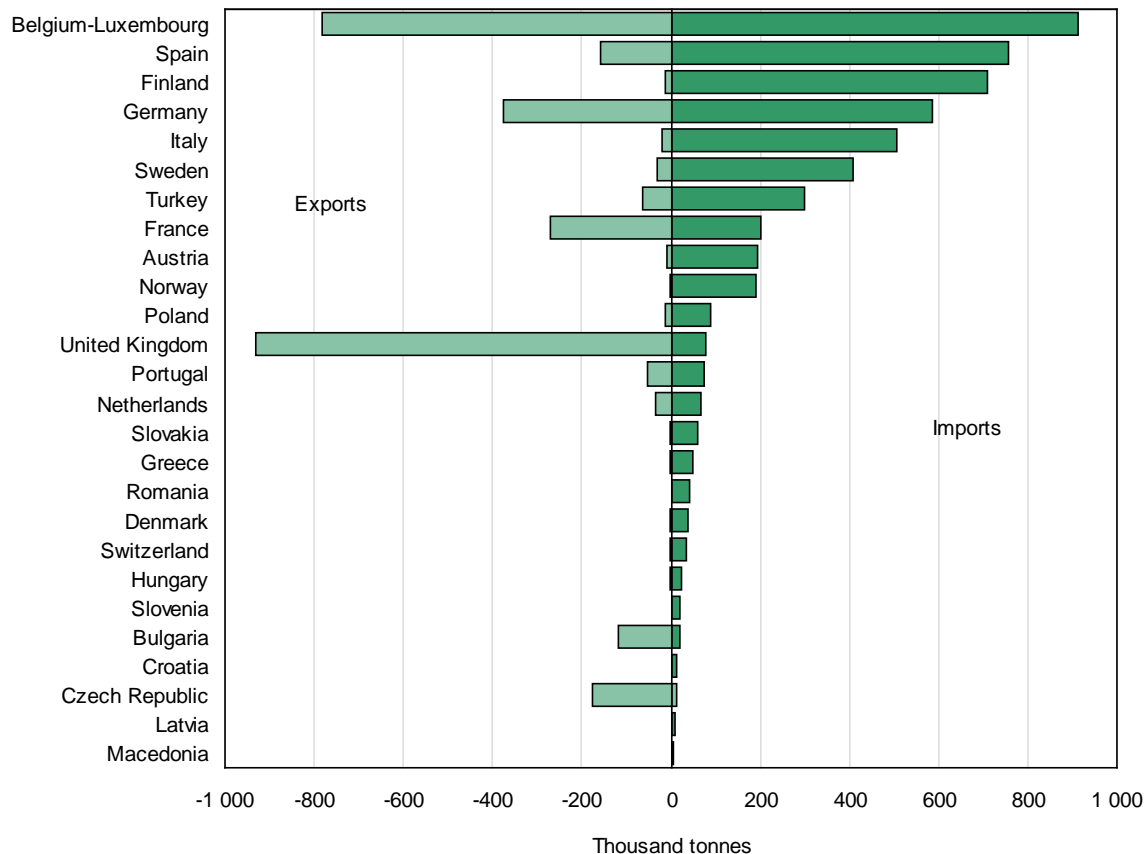
(a) Dry weight

Imports of kaolin

tonnes

Country	2005	2006	2007	2008	2009
Austria	234 906	222 007	218 813	226 682	192 860
Belgium-Luxembourg	962 536	868 255	862 714	1 476 705	912 100
Bulgaria	76 231	91 831	29 717	28 748	20 623
Croatia	7 941	16 423	21 845	24 009	14 486
Czech Republic	16 895	22 962	23 461	20 662	13 228
Denmark	14 117	19 572	35 288	47 525	37 738
Estonia	1 058	1 090	3 214	3 902	1 588
Finland	1 144 335	1 261 699	1 155 041	1 147 687	708 210
France	338 848	320 425	311 060	263 449	200 203
Germany	803 001	809 329	717 102	647 278	585 675
Greece	54 293	68 083	40 298	62 415	49 509
Hungary	33 075	25 282	25 168	29 089	25 094
Ireland, Republic of	22 764	19 647	19 322	18 766	3 155
Italy	956 948	978 378	881 968	810 560	505 593
Latvia	5 016	5 422	11 071	11 173	7 476
Lithuania	802	1 399	568	607	159
Macedonia	19 414	9 797	16 849	12 259	4 879
Netherlands	564 518	627 768	612 720	352 122	68 072
Norway	250 879	241 976	208 709	253 361	190 562
Poland	90 931	94 257	122 245	126 426	90 183
Portugal	143 943	137 656	154 891	114 041	73 081
Romania	55 653	54 862	51 347	48 422	40 326
Slovakia	94 705	100 551	87 956	95 911	58 509
Slovenia	25 928	24 389	28 363	25 682	20 776
Spain	1 366 226	1 506 142	1 571 143	1 470 440	757 859
Sweden	480 358	451 919	448 129	468 491	408 564
Switzerland	37 368	41 481	45 629	39 932	33 555
Turkey	265 530	190 924	163 015	402 812	301 086
United Kingdom	84 617	99 262	73 014	79 546	77 504

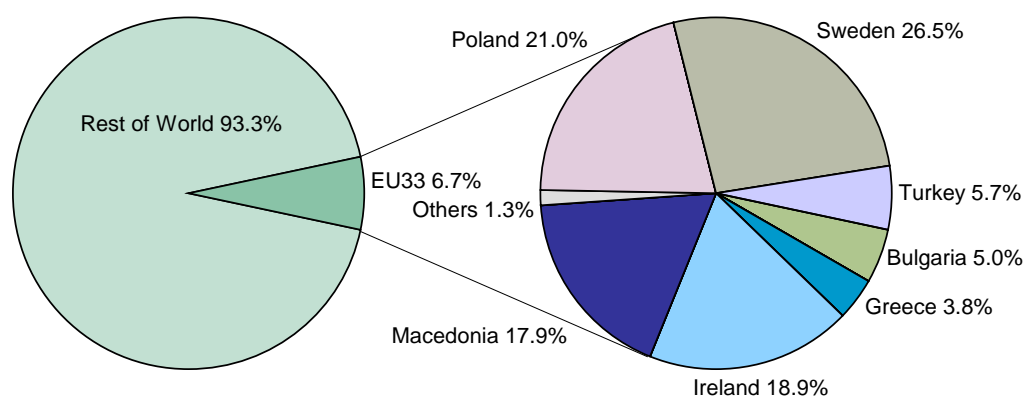
Kaolin - EU33 trade in 2009



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, ordinance, solder, radiation shielding and insecticides.
- China was the world's largest mine producer in 2009 (with 41 per cent of the total) and refiner of lead (with 42 per cent of the total). In the EU33 the largest mine producer of lead was Sweden (26.5 per cent of the EU33 total), followed by Poland (21 per cent), the Republic of Ireland (18.9 per cent) and Macedonia (17.9 per cent). The largest producers of refined lead, based on imported materials and recycling, were Germany (25.8 per cent) and the UK (19.9 per cent). It is estimated that worldwide more than 50 per cent of refined lead produced is from recycled material.

EU33 Mine production of lead 2009



Mine production of lead

tonnes (metal content)

Country	2005	2006	2007	2008	2009
Bulgaria (a)	24 354	19 571	17 768	14 577	12 981
Greece	2 900	11 400	13 400	14 000	10 000
Ireland, Republic of	72 200	61 800	56 800	50 200	49 500
Italy	* 6 000	* 6 000	* 3 000	* 3 000	* 3 000
Macedonia	—	11 531	36 039	49 877	46 788
Poland	78 980	77 450	61 330	67 070	54 900
Romania	11 610	6 269	784	—	—
Sweden	60 445	55 644	63 224	63 489	69 293
Turkey	11 341	14 000	14 000	21 000	15 000
United Kingdom	* 400	* 400	* 300	* 300	* 300
EU33 Total	268 200	264 100	266 600	283 500	261 800

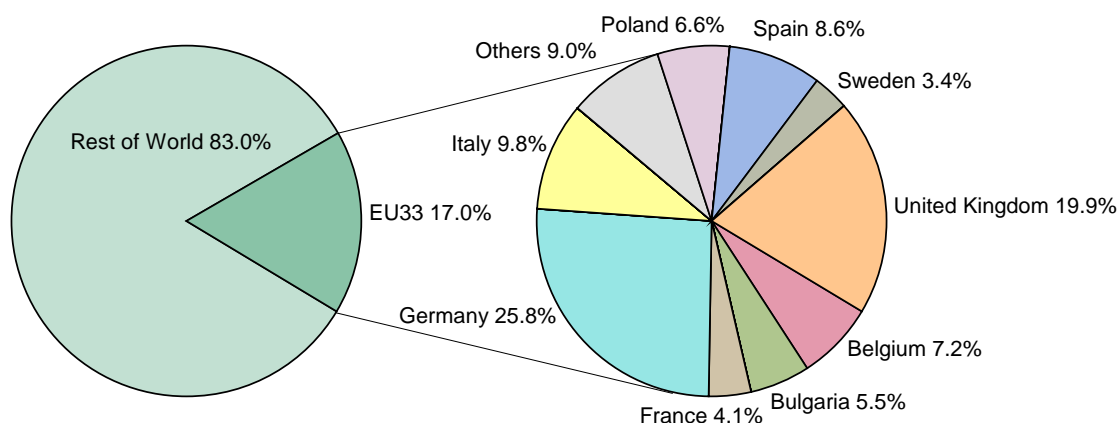
Note(s)

(a) Metal content of ore

EU33 Mine production of lead 2005 - 09



EU33 Production of refined lead 2009



Production of refined lead

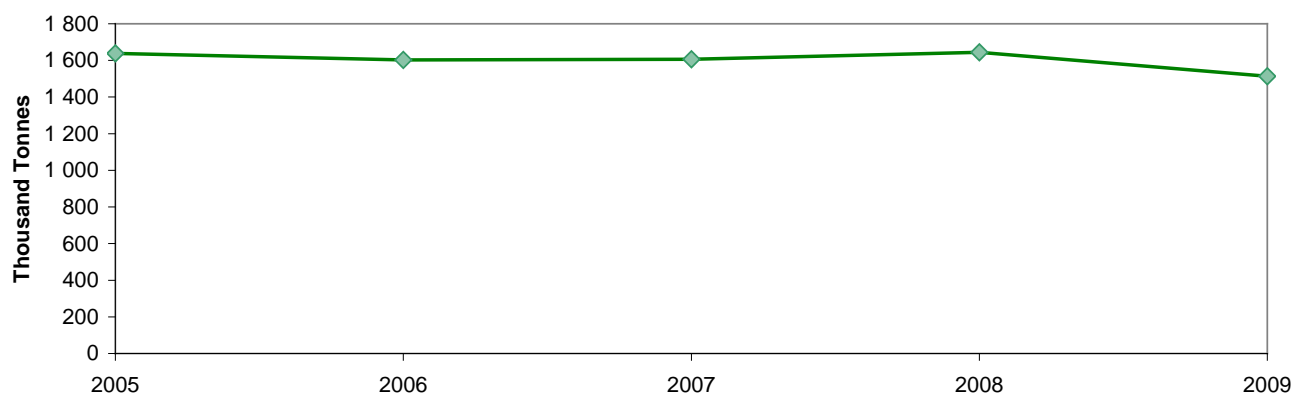
tonnes

Country	2005	2006	2007	2008	2009
Austria	* 24 000	* 22 000	* 22 000	* 22 000	* 22 000
Belgium	103 000	101 000	117 000	104 000	109 000
Bulgaria	81 000	76 000	87 000	90 900	83 100
Czech Republic	26 000	26 000	26 000	26 000	26 000
Estonia	7 000	9 000	10 000	10 000	10 000
France	* 90 000	* 88 000	* 88 000	82 100	62 000
Germany	417 700	379 000	355 000	415 100	390 600
Greece	* —	* 6 000	* 11 000	* 11 000	* 11 000
Ireland, Republic of	22 500	21 700	22 500	20 000	19 000
Italy	211 000	190 500	211 800	199 900	149 000
Netherlands	* 17 000	* 16 000	* 16 000	* 16 000	* 17 000
Poland	81 000	82 200	104 200	108 300	100 400
Portugal	3 000	3 000	5 000	5 000	4 000
Romania	37 900	34 133	39 369	39 596	6 000
Slovenia	15 000	15 000	15 000	15 000	14 000
Spain	110 000	129 000	128 000	125 000	130 000
Sweden	72 760	70 239	69 730	56 812	51 574
Switzerland	9 600	* 9 000	* 9 000	* 8 000	800
Turkey	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
United Kingdom	304 350	318 703	263 391	283 000	301 865
EU33 Total	1 615 000	1 580 000	1 584 000	1 622 000	1 491 000

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

EU33 Production of refined lead 2005 - 09



Exports of lead

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Unwrought	10 746	13 129	13 629	13 844	12 512
Scrap	1 514	1 027	1 018	600	2 173
Belgium-Luxembourg					
Ores & concentrates	96 610	113 576	96 059	114 105	148 562
Unwrought	110 372	98 077	111 344	95 883	108 442
Scrap	9 142	15 071	20 780	18 639	22 085
Bulgaria					
Ores & concentrates	6 165	10 900	23 417	9 555	4 188
Unwrought	69 825	65 400	66 384	80 972	77 713
Croatia					
Scrap	794	1 057	3 590	1 872	1 025
Cyprus					
Scrap	1 212	129	488	—	188
Czech Republic					
Unwrought	8 665	10 359	16 707	18 713	23 617
Scrap	4 948	6 648	6 855	8 136	4 832
Denmark					
Unwrought	1 312	1 071	721	78	615
Scrap	3 067	2 954	1 685	1 159	4 057
Estonia					
Unwrought	7 774	6 054	10 091	10 473	8 861
Finland					
Scrap	3 589	2 421	605	588	357
France					
Unwrought	6 920	25 933	14 936	17 630	14 554
Scrap	24 683	21 854	29 544	15 888	20 815
Germany					
Ores & concentrates	102	475	467	—	1 000
Unwrought	122 120	126 790	136 609	177 129	204 075
Scrap	11 064	8 390	17 799	13 133	13 100
Greece					
Unwrought	4 017	3 292	9 913	5 792	2 360
Scrap	848	1 256	769	1 390	913
Hungary					
Scrap	2 987	3 286	2 369	4 052	4 001
Ireland, Republic of					
Ores & concentrates	92 813	129 748	108 645	91 728	109 877
Italy					
Unwrought	18 244	8 143	8 008	34 904	23 006
Scrap	2 477	3 806	7 661	6 897	7 594
Lithuania					
Scrap	7 848	6 118	11 776	9 730	4 210
Macedonia					
Ores & concentrates	233	16 371	47 209	...	...
Unwrought	54	—	70	184	1 271
Scrap	935	2 511	2 622	2 209	226
Netherlands					
Ores & concentrates	17 161	27 068	2 897	55 980	74 725
Unwrought	24 382	11 133	14 824	7 725	11 061
Scrap	11 950	16 067	21 822	12 278	13 807
Norway					
Scrap	1 013	892	974	695	504
Poland					
Ores & concentrates	92 226	73 902	70 970	69 852	59 790
Unwrought	44 008	68 635	34 455	40 017	48 599
Scrap	1 652	2 168	3 120	1 110	1 525
Portugal					
Unwrought	1 269	2 018	3 092	4 950	6 647
Scrap	4 127	9 471	9 961	3 105	2 222
Romania					
Ores & concentrates	25 012	18 104	10 501	17 396	15 759
Unwrought	22 120	18 786	23 289	22 752	9 049
Scrap	3 295	4 389	4 659	2 997	2 526
Slovakia					
Unwrought	1 662	98	221	94	247

Lead

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Slovenia					
Unwrought	5 818	6 524	8 860	6 960	6 891
Scrap	572	843	1 415	391	325
Spain					
Ores & concentrates	2	29	130	1 015	14 147
Unwrought	9 805	7 830	9 242	14 771	13 434
Scrap	9 128	6 460	7 023	6 616	3 862
Sweden					
Ores & concentrates	62 155	50 854	56 581	61 439	72 220
Unwrought	70 042	76 777	65 733	53 715	46 795
Scrap	307	703	734	816	1 044
Switzerland					
Unwrought	4 657	7 966	7 383	7 387	1 765
Scrap	2 932	3 124	4 860	3 236	4 748
Turkey					
Ores & concentrates (a)	30 226	18 415	34 715	52 988	35 973
Unwrought	2 875	4 271	930	832	361
United Kingdom					
Unwrought	52 593	89 271	68 152	57 466	181 248
Unwrought alloys	38 806	48 589	39 246	79 520	54 505
Scrap	27 248	1 859	31 942	47 660	56 055

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

Imports of lead

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Unwrought	23 062	29 184	27 015	27 475	21 580
Scrap	1 068	890	661	263	826
Belgium-Luxembourg					
Ores & concentrates	134 300	120 136	108 165	97 474	192 496
Unwrought	18 807	15 081	36 620	30 543	18 267
Scrap	26 699	41 070	55 153	25 873	34 096
Bulgaria					
Ores & concentrates	83 398	100 736	92 929	119 522	63 185
Unwrought	10 723	11 305	15 854	15 529	10 182
Scrap	1 227	1 346	3 338	5 830	12 145
Croatia					
Unwrought	1 492	1 415	911	680	376
Czech Republic					
Unwrought	69 135	67 850	66 060	59 318	65 896
Scrap	4 147	4 411	6 519	4 672	4 150
Denmark					
Unwrought	2 135	2 322	1 033	192	107
Scrap	2 288	2 209	2 228	1 984	2 583
Finland					
Unwrought	2 854	1 571	2 283	3 195	2 346
France					
Unwrought	109 426	121 930	118 384	103 535	42 187
Scrap	33 818	32 705	34 169	22 490	13 579
Germany					
Ores & concentrates	171 533	161 113	211 132	212 602	234 102
Unwrought	108 533	134 805	138 978	118 779	103 642
Scrap	15 419	18 141	30 313	28 231	40 547
Greece					
Unwrought	5 112	5 401	11 792	6 875	10 644
Scrap	85	138	2 071	2 800	1 753

Imports continued

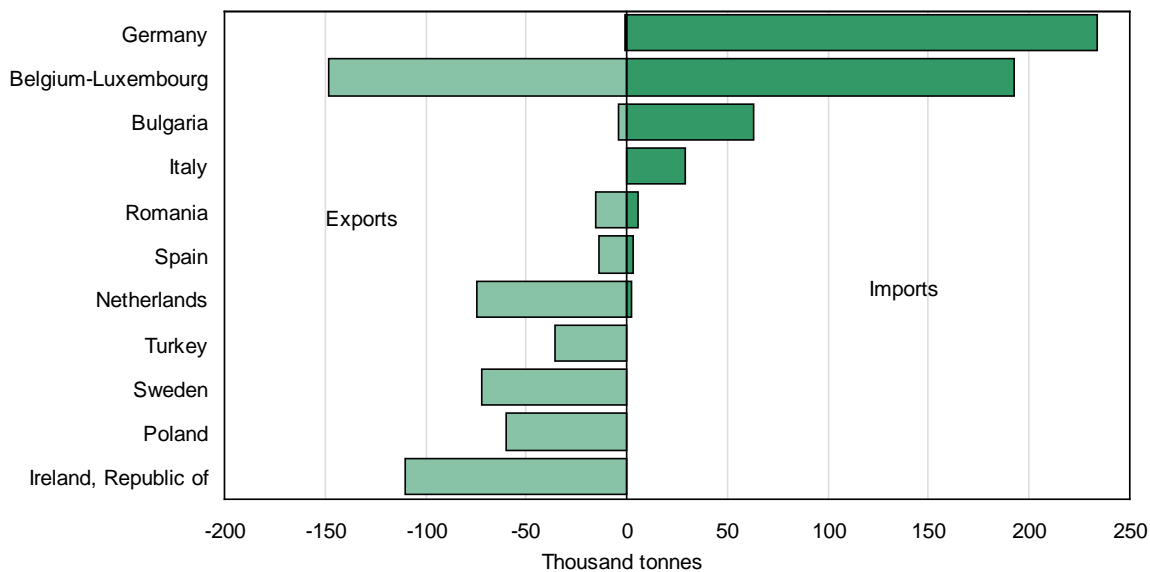
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Country	2005	2006	2007	2008	2009
Hungary					
Unwrought	5 028	4 063	5 802	2 711	2 663
Ireland, Republic of					
Unwrought	30 999	28 386	35 675	23 480	15 784
Scrap	28 530	31 794	25 828	17 702	16 689
Italy					
Ores & concentrates	107 685	65 610	111 999	85 760	29 210
Unwrought	72 181	112 069	114 471	99 015	86 054
Scrap	3 333	4 097	7 107	2 972	2 031
Lithuania					
Scrap	...	119	368	162	3 301
Macedonia					
Unwrought	1 146	857	331	19	38
Netherlands					
Ores & concentrates	9 268	13 186	22 303	5 307	1 935
Unwrought	36 051	24 272	22 419	9 373	7 195
Scrap	9 700	17 508	22 006	11 325	13 593
Norway					
Unwrought	4 882	4 749	7 055	6 473	5 026
Poland					
Unwrought	53 095	56 504	44 235	35 465	29 861
Scrap	794	1 633	1 256	2 467	2 293
Portugal					
Unwrought	21 198	17 523	14 704	12 014	6 642
Romania					
Ores & concentrates	31 085	13 288	17 064	27 055	5 889
Unwrought	1 620	1 400	835	872	9 245
Slovenia					
Unwrought	10 262	8 897	12 761	14 103	13 036
Scrap	1 382	2 946	5 191	1 556	1 985
Spain					
Ores & concentrates	1 526	2 299	8 188	7 107	3 199
Unwrought	174 618	147 423	157 485	116 492	121 522
Scrap	30 499	30 625	42 629	35 506	35 703
Sweden					
Ores & concentrates	5 085	10 476	—	275	—
Unwrought	6 098	17 679	6 554	6 922	5 028
Scrap	3 538	3 101	3 771	2 089	5 176
Switzerland					
Unwrought	8 067	9 185	7 087	9 915	9 446
Turkey					
Unwrought	71 680	56 792	46 966	79 460	73 520
United Kingdom					
Unwrought, base bullion (a)	173 910	120 871	119 726	194 113	130 312
Unwrought, other	31 347	53 892	31 187	39 493	17 277
Scrap	3 898	5 914	17 685	4 621	4 962

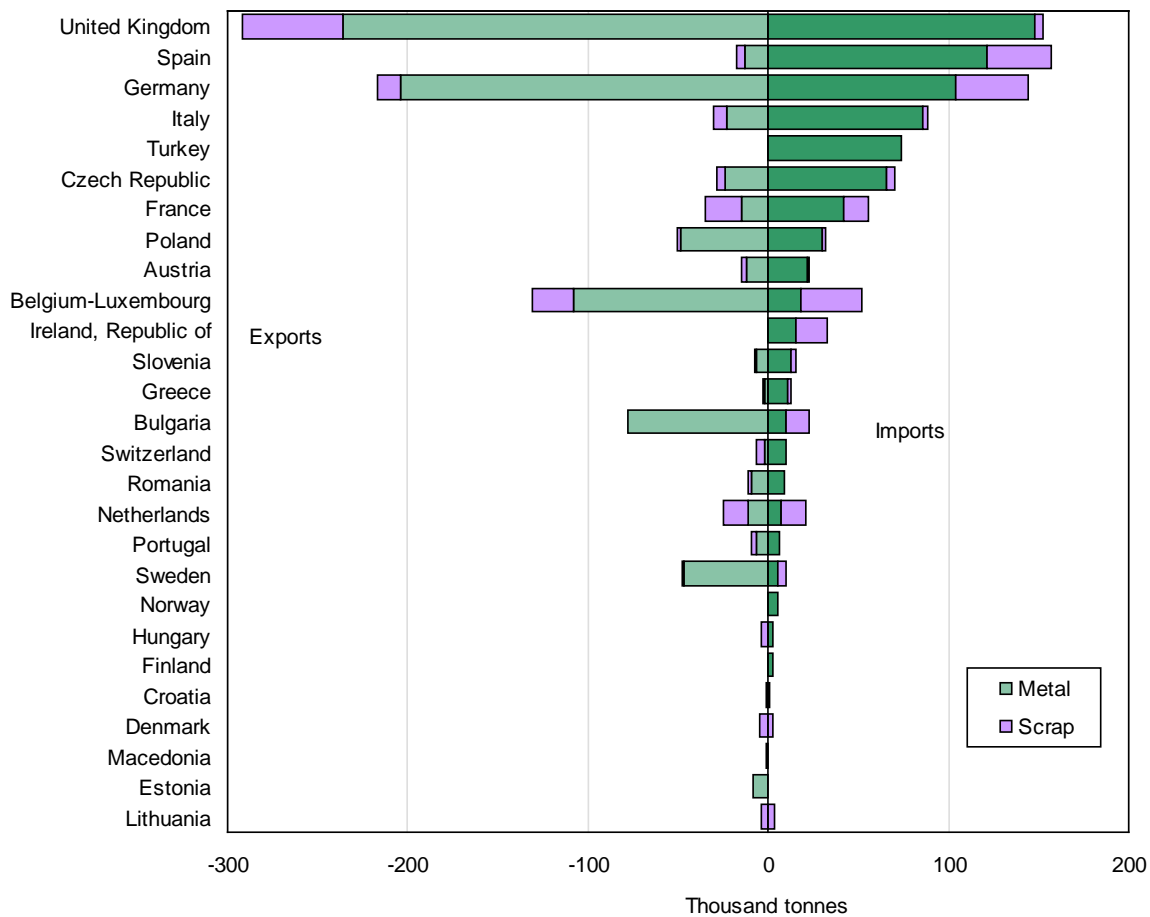
Note(s)

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

Lead ore - EU33 trade in 2009



Lead - EU33 trade in 2009



Lithium minerals

- Lithium is a very light metallic element. It is mainly used in lithium compounds that act as fluxes in the ceramics and glass industries, and in lubricants. The metal is an important alloying agent with 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 2009 (approximately 55 per cent of world production of lithium minerals), despite output falling by 17.5 per cent compared to 2008. Chile was the largest producer by lithium content (45 per cent of world production). In the EU33 Portugal and Spain are the only countries producing lithium minerals.

Production of lithium minerals

tonnes

Country	2005	2006	2007	2008	2009
Portugal					
Lepidolite	26 185	28 497	34 755	34 888	38 500
Spain					
Lepidolite	6 751	8 339	10 326	9 342	* 7 000

Exports of lithium

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Oxides	1 545	1 236	1 370	1 281	781
Carbonate	4 999	5 107	4 915	3 567	3 042
France					
Carbonate	462	12	2	3	1
Germany					
Carbonate	2 991	2 907	2 705	2 290	1 880
Italy					
Carbonate	269	347	225	193	145
Netherlands					
Oxides	115	154	331	511	205
Carbonate	224	405	318	299	227
Slovenia					
Carbonate	96	96	110	122	128
Spain					
Carbonate	1 123	554	192	128	228
Switzerland					
Oxides	78	69	75	88	2 041
United Kingdom					
Oxides	125	94	92	232	569
Carbonate	203	271	158	216	193

Imports of lithium

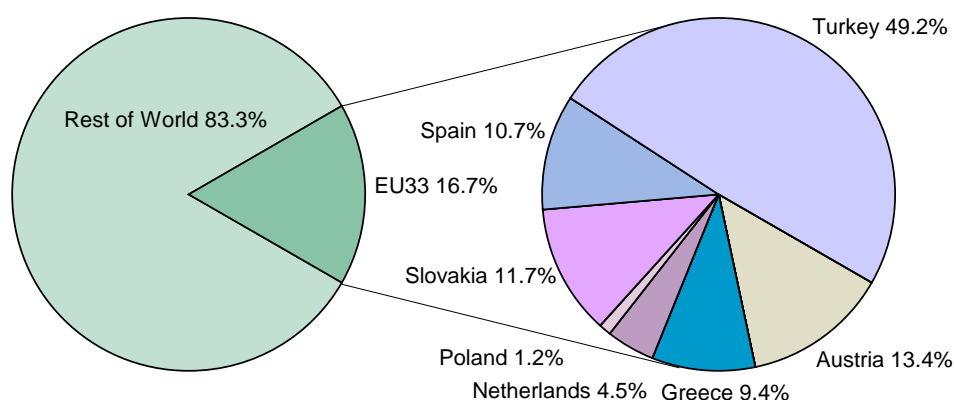
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Country	2005	2006	2007	2008	2009
Austria					
Carbonate	182	199	248	333	327
Belgium-Luxembourg					
Oxides	2 014	1 201	1 784	1 851	1 179
Carbonate	6 205	5 357	5 895	4 414	3 410
Czech Republic					
Carbonate	71	118	146	64	35
Denmark					
Carbonate	81	164	155	311	402
Finland					
Carbonate	77	85	73	84	41
France					
Oxides	482	369	314	256	362
Carbonate	1 392	1 186	1 289	1 251	1 172
Germany					
Oxides	4 209	4 260	5 163	5 420	...
Carbonate	8 101	7 948	8 131	7 098	4 433
Italy					
Oxides	223	159	160	246	96
Carbonate	2 263	1 646	1 303	1 519	1 185
Netherlands					
Oxides	178	359	428	537	228
Carbonate	1 171	1 356	1 459	729	316
Poland					
Oxides	136	266	245	61	86
Carbonate	128	252	184	162	137
Slovenia					
Oxides	116	115	144	186	139
Spain					
Oxides	480	573	600	501	521
Carbonate	1 553	828	1 811	3 908	2 825
Sweden					
Oxides	176	186	107	146	149
Carbonate	259	215	236	278	191
Switzerland					
Oxides	81	112	142	143	110
Turkey					
Oxides	183	248	245	257	208
Carbonate	433	491	683	617	613
United Kingdom					
Oxides	446	385	614	466	914
Carbonate	657	650	779	536	622

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. China was the largest world producer in 2009, with an estimated 62 per cent of world production. The largest EU33 producer was Turkey with 49.2 per cent of EU33 production (and eight per cent of the world total).

EU33 Production of magnesite 2009



Production of magnesite

tonnes

Country	2005	2006	2007	2008	2009
Austria	693 754	769 188	811 556	837 476	544 716
Greece	471 000	463 277	351 414	361 165	380 834
Netherlands (a)	285 336	293 006	* 245 000	316 264	183 256
Poland	55 300	63 000	65 000	60 000	47 000
Slovakia	920 100	941 100	957 000	806 500	477 600
Spain	556 129	520 646	463 850	* 440 700	* 434 000
Turkey	2 372 206	2 088 033	1 984 908	2 143 047	* 2 000 000
EU33 Total	5 354 000	5 138 000	4 879 000	4 965 000	4 067 000

Note(s)

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

(a) Chloride produced from solution mining

EU33 Production of magnesite 2005 - 09



Exports of magnesite and magnesia

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Magnesite	1 338	1 231	760	602	1 746
Magnesia	59 283	45 311	57 964	28 779	26 716
Belgium-Luxembourg					
Magnesite	575	1 520	1 958	2 392	1 467
Magnesia	52 665	75 011	64 293	81 186	59 644
Czech Republic	6 273	4 099	3 988	4 540	3 728
Denmark	232	307	451	461	518
France					
Magnesite	230	241	373	310	576
Magnesia	45 661	47 832	48 852	57 342	35 523
Germany					
Magnesite	61	132	463	22	140
Magnesia	81 021	93 286	87 264	72 684	58 604
Greece					
Magnesia	140 083	125 783	132 083	126 496	84 399
Ireland, Republic of					
Magnesite	—	5 991	5 487	5 006	9 133
Magnesia	82 417	46 656	3 981	9 912	8 595
Italy					
Magnesite	3 489	3 003	3 878	2 337	1 945
Magnesia	12 130	12 174	9 036	8 172	5 873
Lithuania					
Magnesia	...	8	26	...	537
Netherlands					
Magnesite	1 452	4 750	582	494	180
Magnesia	492 077	465 555	128 060	344 675	160 337
Poland	1 208	654	2 632	1 921	734
Romania					
Magnesia	231	277	351	440	381
Slovakia					
Magnesite (a)	* 8 000	* 3 000	* 6 000	* 9 300	* 7 400
Magnesia	385 312	394 826	444 539	409 295	261 876
Slovenia					
Magnesia	...	206	257	...	344
Spain					
Magnesite	901	19 635	607	725	2 167
Magnesia	189 005	179 046	185 364	175 307	156 027
Sweden					
Magnesia	1 421	2 277	1 593	235	380
Turkey					
Magnesite	41 353	28 937	40 414	68 054	35 097
Magnesia	198 654	205 989	181 870	175 441	162 651
United Kingdom					
Magnesite	87	26	51	316	518
Magnesia	20 077	19 036	16 371	13 647	9 662

Note(s)

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

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

Imports of magnesite and magnesia

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Magnesite	17 019	1 653	933	2 319	937
Magnesia	188 449	213 760	317 952	248 037	21 708
Belgium-Luxembourg					
Magnesite	767	3 872	4 326	4 064	4 514
Magnesia	84 730	152 330	101 911	141 283	104 627
Bulgaria	8 500	6 551	4 670	6 296	3 180
Croatia	1 647	1 564	1 872	1 682	1 289
Czech Republic					
Magnesite	6 860	5 320	6 527	4 193	3 460
Magnesia	43 277	51 674	52 330	54 246	38 048
Denmark					
Magnesite	2 002	444	512	456	2 680
Magnesia	4 560	4 478	3 327	4 149	5 472
Finland					
Magnesia	16 476	9 540	15 989	8 692	6 439
France					
Magnesite	3 427	2 509	2 355	2 378	1 209
Magnesia	161 488	161 029	163 908	164 235	117 821
Germany					
Magnesite	6 353	13 794	17 029	8 420	6 731
Magnesia	515 089	519 576	568 508	562 618	276 674
Greece					
Magnesite	14 250	15 645	12 611	44 397	19 803
Magnesia	17 232	22 763	20 682	7 328	1 729
Hungary	6 251	5 435	9 760	14 754	2 644
Ireland, Republic of					
Magnesite	12 653	1 967	5 971	4 385	4 191
Magnesia	49 466	35 800	48 088	42 999	22 523
Italy					
Magnesite	23 536	10 862	10 240	18 347	9 375
Magnesia	161 432	174 000	131 140	150 098	93 262
Latvia					
Magnesia	3 343	4 092	4 678	5 355	2 827
Lithuania					
Magnesia	5 398	5 513	6 501	5 196	855
Macedonia	1 384	5 047	18 863	13 956	10 113
Netherlands					
Magnesite	3 057	3 007	1 390	3 609	3 259
Magnesia	558 764	454 271	437 684	314 860	80 478
Norway					
Magnesite	2 125	4 265	126	69	17
Magnesia	500	1 784	4 298	5 989	4 904
Poland					
Magnesite	244	288	1 536	216	2 658
Magnesia	71 550	103 092	109 810	109 646	81 304
Portugal					
Magnesite	1 012	1 269	924	1 521	697
Magnesia	5 998	6 544	7 119	5 863	8 538
Romania					
Magnesite	155	516	187	139	1
Magnesia	27 088	27 447	19 666	13 003	7 427
Slovakia					
Magnesite	1 440	3 947	3 520	3 401	2 906
Magnesia	21 927	27 280	36 768	40 675	12 731
Slovenia					
Magnesite	391	166	123	113	79
Magnesia	9 500	8 312	7 994	8 159	4 267
Spain					
Magnesite	2 348	3 937	4 092	2 839	10 029
Magnesia	103 747	88 898	117 867	143 849	42 980
Sweden					
Magnesite	41	39	477	38	2
Magnesia	21 293	24 610	17 556	14 701	15 832
Switzerland					
Magnesite	168	394	1 024	69	502
Magnesia	6 708	7 506	7 144	7 772	4 762

Magnesite and Magnesia

Imports continued

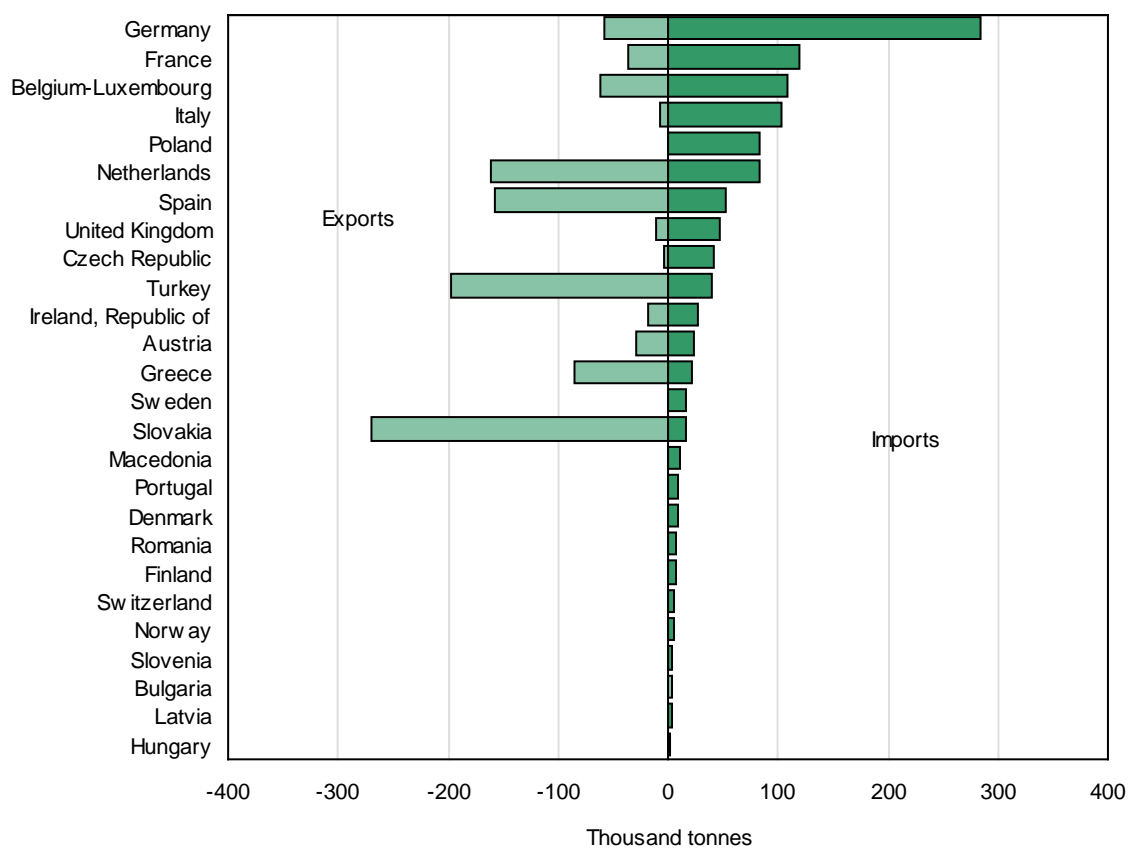
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Country	2005	2006	2007	2008	2009
Turkey					
Magnesia	52 432	29 148	43 360	61 519	40 595
United Kingdom					
Magnesite	13 896	10 644	10 194	7 016	3 567
Magnesia	78 843	64 896	57 905	59 300	43 873

Note(s)

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

Magnesite and magnesia - EU33 trade in 2009



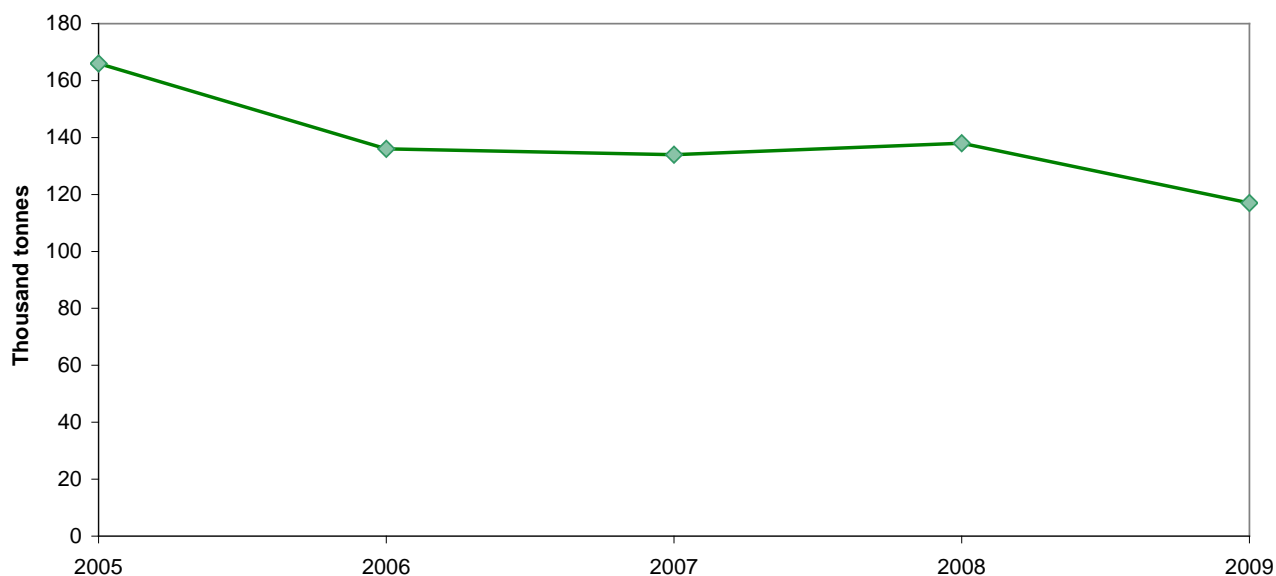
Manganese ore

- 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. China was the largest producer in 2009 with an estimated 36 per cent of world production. Production of manganese in the EU33 is limited, with Hungary (39 per cent of EU33 production) the largest producer. Manganese ore, ferro-manganese, electrolytic manganese dioxide and manganese metal are the chief forms in international trade.

Production of manganese ore

Country	2005	2006	2007	2008	2009
Bulgaria	38 500	20 500	27 900	39 100	28 300
Hungary	50 000	50 000	51 000	49 579	43 000
Italy	632	...	...	...	...
Romania	72 000	60 107	49 350	43 590	* 40 000
Turkey	4 751	...	...	...	...
EU33 Total	166 000	136 000	134 000	138 000	117 000

EU33 Production of manganese ore 2005 - 09



Manganese

Exports of manganese

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal	5 470	306	116	130	225
Belgium-Luxembourg					
Ores & concentrates	10 648	5 138	15 819	8 578	5 192
Metal	1 826	7 045	4 060	1 947	837
Bulgaria					
Ores & concentrates	53 559	25 595	19 335	17 369	29 715
Estonia					
Metal	663	222	464	226	137
Finland					
Metal	...	0	31	98	341
France					
Ores & concentrates (a)	139 723	303 881	333 747	321 638	138 787
Metal	324	415	327	488	631
Germany					
Ores & concentrates	3 249	3 046	5 761	3 321	3 710
Metal	17 824	19 757	15 414	12 921	6 727
Italy					
Metal	241	298	309	494	326
Macedonia					
Ores & concentrates	...	5 117	...	6 314	...
Netherlands					
Ores & concentrates	14 903	33 386	8 223	19 103	28 701
Metal	13 585	16 739	19 767	19 144	15 642
Norway					
Ores & concentrates	1 410	7 880	56 939	10 266	9 214
Metal	131	203	2 373	1 363	59
Poland					
Ores & concentrates	43 186	1 309	151	18	20
Metal	67	52	460	35	603
Romania					
Metal	...	1	3 024	6 666	—
Slovenia					
Metal	2 584	228	236	58	21
Spain					
Ores & concentrates	776	1 336	1 299	518	21 456
Metal	6 651	5 827	5 783	4 562	3 386
Turkey					
Ores & concentrates	955	2 466	13 007	81 280	59 183
Metal	—	4	20	401	81
United Kingdom					
Metal (e)	* 3 100	* 2 000	* 2 100	* 3 100	* 1 800

Note(s)

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

(a) Including manganese iron ore

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

Imports of manganese

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Ores & concentrates	110	368	383	215	184
Metal	8 707	12 059	17 543	14 275	11 512
Belgium-Luxembourg					
Ores & concentrates	66 840	65 462	79 022	83 909	61 980
Metal	4 150	10 114	6 403	4 425	3 093
Bulgaria					
Ores & concentrates	13 631	17 367	27 602	—	20
Croatia					
Metal	93	89	586	64	53
Czech Republic					
Ores & concentrates	13 820	14 335	16 079	15 715	16 063
Metal	619	674	757	2 542	2 219
Denmark					
Ores & concentrates	111	788	775	698	1 158
Metal	157	161	317	233	136
Estonia					
Metal	552	909	836	478	168
Finland					
Ores & concentrates	28 335	10 433	27 251	24 926	12 224
Metal	753	2 182	2 379	2 649	912
France					
Ores & concentrates (b)	615 884	611 043	678 369	876 961	193 684
Metal	11 039	11 131	15 198	19 115	8 905
Germany					
Ores & concentrates (b)	7 645	11 327	15 997	14 916	14 645
Metal	29 449	45 937	42 368	47 581	33 989
Greece					
Ores & concentrates	22 001	46 164	—	51 425	31 776
Metal	905	730	291	271	162
Hungary					
Ores & concentrates	...	20	254	293	220
Metal	889	1 180	332	1 185	280
Ireland, Republic of					
Ores & concentrates (b)	285	368	286	75	65
Metal	5	15	118	7	6
Italy					
Ores & concentrates (b)	76 278	72 465	113 300	114 289	77 075
Metal	8 494	35 391	7 100	5 839	3 709
Macedonia					
Ores & concentrates	28 977	44 040	143 556	170 455	...
Netherlands					
Ores & concentrates	35 936	22 495	11 749	10 664	9 398
Metal	61 240	22 162	31 236	35 573	19 083
Norway					
Ores & concentrates	1 172 711	849 729	1 083 361	1 232 799	525 674
Metal	2 976	3 531	2 953	2 595	1 297
Poland					
Ores & concentrates	38 845	6 017	32 984	54 087	1 930
Metal	499	1 155	1 167	716	507
Portugal					
Ores & concentrates	28	63	51	765	13
Romania					
Ores & concentrates	357 327	3 134	79	16 432	16
Metal	427	1 000	3 030	646	527
Slovakia					
Ores & concentrates	273 270	308 417	253 048	211 653	74 712
Metal	146	445	313	350	395
Slovenia					
Ores & concentrates	6	4	187	10	9
Metal	294	435	388	438	264
Spain					
Ores & concentrates	415 959	393 476	349 131	640 677	54 606
Metal	10 537	9 165	9 563	10 033	3 994
Sweden					
Ores & concentrates	119	72	130	388	854
Metal	2 632	2 380	3 012	3 287	1 880

Manganese

Imports continued

tonnes

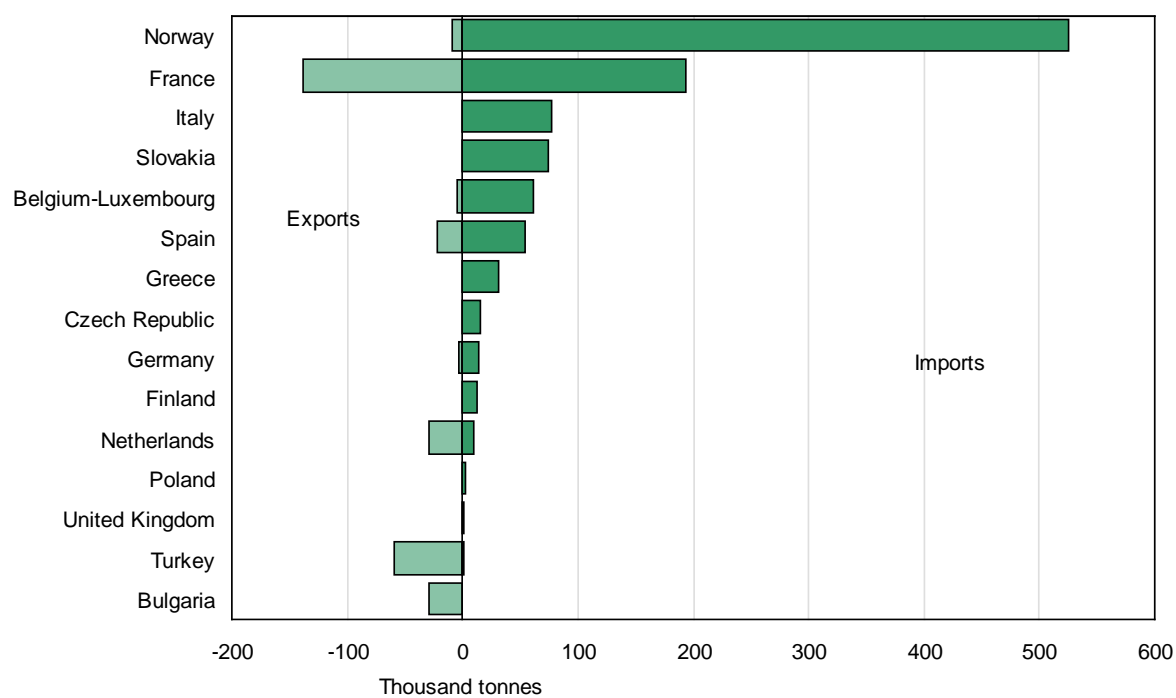
Country	2005	2006	2007	2008	2009
Switzerland					
Ores & concentrates	469	453	415	472	340
Metal	486	444	778	472	282
Turkey					
Ores & concentrates	259	383	428	2 531	540
Metal	300	509	719	874	583
United Kingdom					
Ores & concentrates (a)	698	8 458	1 569	4 133	941
Metal	8 223	8 563	7 021	8 773	4 123

Note(s)

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

(a) Including manganiferous iron ore

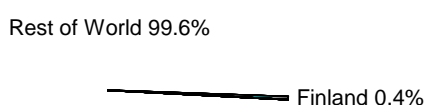
Manganese ores and concentrates - EU33 trade in 2009



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 2009. China and Kyrgyzstan are the world's two largest producers and are together responsible for more than 90 per cent of total world output. Chile and Russia are estimated to produce nearly three per cent each. Finland is the only producer in the EU33 countries but its output represents less than one per cent of the world total.

EU33 Production of mercury 2009



Production of mercury

kilograms

Country	2005	2006	2007	2008	2009
Finland	34 200	22 820	45 195	33 120	6 210

Note(s)

(1) Several countries are believed to have unrecorded production of mercury from copper electro-winning processes

EU33 Production of mercury 2005 - 09



Exports of mercury

kilograms

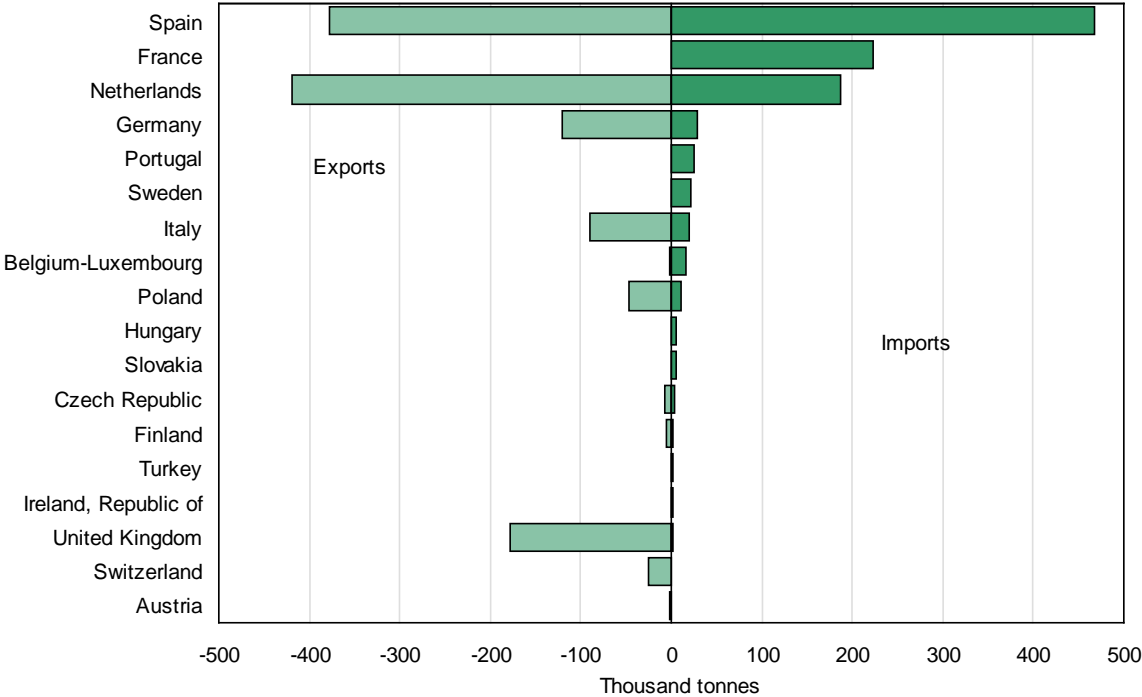
Country	2005	2006	2007	2008	2009
Austria	4 100	214	5 000	200	2 000
Belgium-Luxembourg	8 800	42 300	3 300	110 800	1 400
Czech Republic	8 200	1 700	3 600	6 300	6 400
Estonia	3 400	—	—	—	—
Finland	32 090	24 859	45 600	35 000	6 211
France	15 400	27 300	9 100	1 700	718
Germany	36 200	40 000	42 300	111 100	120 587
Italy	18 244	14 820	125 946	84 247	89 228
Netherlands	188 220	176 670	196 039	192 605	419 480
Poland	3 000	33 900	61 600	17 700	46 200
Spain	581 653	463 954	779 110	639 203	376 885
Switzerland	171 790	87 136	140 336	11 592	25 372
United Kingdom	191 193	78 514	4 311	6 369	178 571

Imports of mercury

kilograms

Country	2005	2006	2007	2008	2009
Austria	1 600	2 000	4 400	200	—
Belgium-Luxembourg	18 658	44 852	8 369	133 278	16 212
Czech Republic	1 100	4 000	3 200	3 700	4 400
Denmark	2 901	129	300	400	100
Finland	28	38	200	209	2 136
France	202 600	138 100	190 000	105 300	222 224
Germany	36 200	70 600	84 100	19 700	28 678
Greece	954	933	100	2 500	600
Hungary	4 607	3 529	3 300	4 293	4 800
Ireland, Republic of	72	11 804	1 019	979	1 182
Italy	32 471	49 335	9 491	21 754	19 992
Netherlands	665 865	888 164	674 888	293 481	* 186 300
Poland	15 700	9 200	15 700	13 300	10 900
Portugal	—	—	—	7 500	25 100
Romania	20 288	49 623	80 000	2 300	400
Slovakia	3 457	3 100	3 400	5 200	4 500
Spain	572 872	628 737	906 297	337 117	467 614
Sweden	3 000	6 000	10 600	13 800	21 300
Switzerland	5 846	5 333	6 687	3 557	801
Turkey	1 440	2 052	9	3 069	1 635
United Kingdom	32 306	2 128	2 668	2 387	1 121

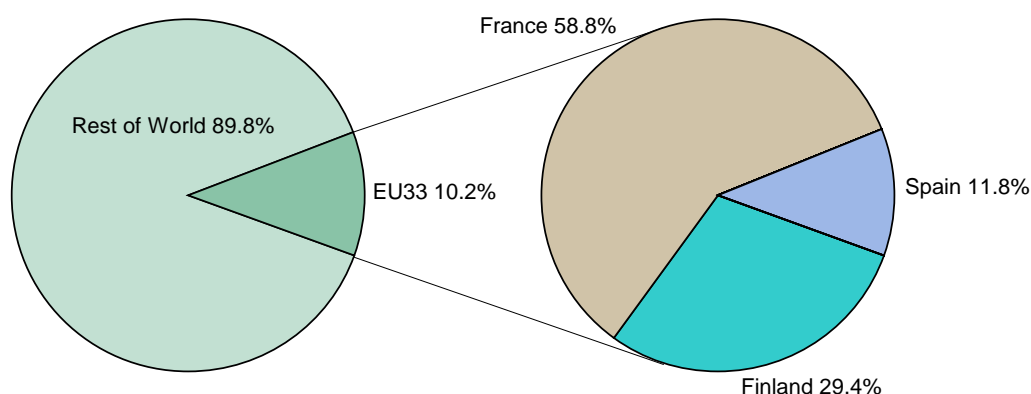
Mercury - EU33 trade in 2009



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. China was the largest world producer in 2009 with 30 per cent of the world total. Mica is produced in three EU33 countries, of which the largest producer is France (58.8 per cent of EU33 total). Altogether, output from the EU33 countries represent 10.2 per cent of the world total.

EU33 Production of mica 2009



Production of mica

Country	2005	2006	2007	2008	2009
Finland	9 500	8 097	11 449	10 706	* 10 000
France (a)	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Spain (a)	4 043	4 496	5 569	4 254	* 4 000
EU33 Total	34 000	33 000	37 000	35 000	34 000

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

EU33 Production of mica 2005 - 09



Exports of mica

tonnes

Country	2005	2006	2007	2008	2009
Austria	4 915	4 102	4 234	4 274	3 328
Belgium-Luxembourg	3 226	3 225	3 226	2 127	1 562
Finland					
Ground	5 745	6 603	8 956	7 138	6 125
France					
Ground	13 406	12 794	13 490	13 881	10 758
Waste	39	20	422	...	...
Germany	3 656	4 039	4 957	4 713	2 888
Greece	5 653	9 613	3	59	59
Italy	738	1 159	1 429	3 211	857
Netherlands	2 912	2 735	6 842	1 341	3 214
Norway	2 003	2 157	2 168	2 640	1 835
Spain					
Unmanufactured	2 771	3 994	2 473	1 259	563
Ground	312	462	1 089	1 368	1 521
United Kingdom	4 052	4 593	3 820	4 749	3 944

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	2005	2006	2007	2008	2009
Austria	512	615	722	857	492
Belgium-Luxembourg					
Unmanufactured	913	470	1 204	2 155	3 454
Ground	2 996	2 646	3 461	5 410	3 507
Waste	...	...	4 364	2 107	45
Czech Republic	819	1 629	2 262	1 958	981
Denmark	413	1 596	366	276	242
Finland	2 998	2 874	4 098	4 383	1 988
France					
Ground (a)	1 534	2 674	2 532	3 175	2 214
Waste	1 423	—	—	...	13
Germany					
Unmanufactured	89	12	16	386	221
Ground	30 820	33 101	36 345	33 175	25 682
Waste	1 101	980	782	966	316
Greece	131	111	123	218	317
Ireland, Republic of	889	650	508	291	43
Italy					
Unmanufactured	118	158	189	106	417
Ground	3 405	3 657	4 803	3 980	2 597
Lithuania	124	122	53	92	43
Malta	33	61	39	48	196
Netherlands					
Unmanufactured	143	176	400	751	523
Ground	7 381	7 251	9 933	2 618	3 490
Norway					
Unmanufactured	80	648	912	1 174	1 021
Ground	893	373	337	1 243	1 140
Waste	28	120	18	9	...
Poland	547	918	1 118	880	1 134
Portugal	193	630	284	125	139
Romania	886	912	478	488	441
Spain	1 917	1 484	1 871	952	1 467
Sweden	592	515	584	755	721
Switzerland	601	1 151	3 021	1 088	669
Turkey	266	413	293	385	477

Mica

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
United Kingdom					
Unmanufactured	296	251	289	377	328
Ground	6 684	5 856	6 705	7 061	6 396
Waste	4 485	3 474	3 433	2 030	49

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 2009 was confined to only 14 countries, of which the three largest producers, China, the USA and Chile, together produced 77 per cent of the world total. There is no production in the EU33 countries.

Exports of molybdenum

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal (a)	* 4 700	* 3 000	* 3 500	* 3 000	* 1 800
Belgium-Luxembourg					
Ores & concentrates	17 683	24 320	22 340	11 314	15 581
Metal	342	194	556	243	105
Oxides	687	905	829	379	91
Bulgaria					
Metal	105	87	99	123	132
France					
Ores & concentrates	365	512	485	55	75
Germany					
Ores & concentrates	2 770	3 812	2 723	3 575	2 502
Metal	2 241	2 958	346	2 857	725
Italy					
Ores & concentrates	246	29	311	159	205
Metal	132	639	221	873	488
Oxides	47	107	185	604	982
Lithuania					
Ores & concentrates	310	...	173	186	...
Netherlands					
Ores & concentrates	47 395	27 264	26 613	16 284	4 408
Metal	59	190	409	282	46
Oxides	2 708	2 110	3 059	4 253	1 805
United Kingdom					
Ores & concentrates	179	166	78	64	35
Metal	807	318	237	241	433

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	2005	2006	2007	2008	2009
Austria					
Metal	599	1 342	1 243	1 502	430
Belgium-Luxembourg					
Ores & concentrates	54 452	47 122	43 932	37 964	37 101
Metal	383	490	752	360	344
Oxides	2 072	2 618	2 796	2 075	968
Bulgaria					
Metal	108	73	47	15	47
Czech Republic					
Ores & concentrates	189	139	213	284	1 040
Metal	89	175	130	560	127
Denmark					
Oxides	247	196	432	361	388
Finland					
Ores & concentrates	28 469	9 270	5 789	3 498	40
France					
Ores & concentrates	1 783	1 896	1 511	1 933	769
Metal	993	1 075	830	1 094	541
Oxides	678	579	670	1 191	1 018
Germany					
Ores & concentrates	11 537	14 059	10 721	9 645	6 953
Metal	2 569	3 894	4 238	4 132	1 726
Oxides	725	2 049	1 776	1 905	1 661
Greece					
Metal	2	47	34	60	58
Hungary					
Metal	129	145	112	102	69
Italy					
Ores & concentrates	5 109	5 552	5 901	6 220	6 703
Metal	203	189	215	254	171
Oxides	117	229	183	125	176
Netherlands					
Ores & concentrates	31 781	34 891	30 403	36 305	9 555
Metal	287	801	1 060	572	84
Oxides	1 509	1 441	1 341	859	230
Poland					
Metal	102	208	616	843	281
Slovakia					
Metal	37	3	5	24	106
Slovenia					
Ores & concentrates	5 674	700	876	690	292
Spain					
Ores & concentrates	3 317	4 584	4 622	3 787	1 724
Metal	31	163	113	189	236
Sweden					
Ores & concentrates	5 690	6 863	7 003	4 645	2 514
Metal	280	139	281	442	470
Oxides	392	1 133	780	711	219
Turkey					
Ores & concentrates	1	2	4	3	291
Metal	4	6	8	89	16
Oxides	82	80	69	167	54
United Kingdom					
Ores & concentrates	18 600	19 032	18 381	15 130	9 007
Metal	2 877	3 445	1 390	2 102	707
Oxides	630	635	513	1 433	510

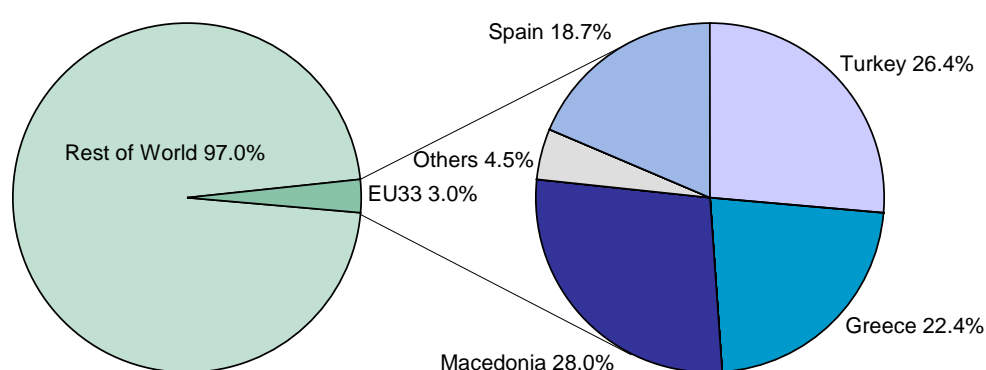
Note(s)

(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.
- Russia was the world's largest producer of mined nickel in 2009 with 18.5 per cent of the total, followed by Indonesia (14 per cent) and Australia (11.8 per cent). Canada is normally one of the top producers of mined nickel but its output in 2009 fell by 47 per cent compared to 2008, dropping it below the Philippines into fifth place. Macedonia is the largest mine producer in the EU33 with 28 per cent of the EU33 total followed by Turkey (26.4 per cent) and Greece (22.4 per cent).
- Russia is also the largest refined nickel producer in the world, closely followed by China. In 2009 Australia overtook Japan to become the third largest producer, while Canada dropped to fifth. Together these five countries produced 68 per cent of the world total in 2009. Norway was the largest refined nickel producer in the EU33 in 2009 with 48.7 per cent of the EU33 total (and just over six per cent of the world total).

EU33 Mine production of nickel 2009

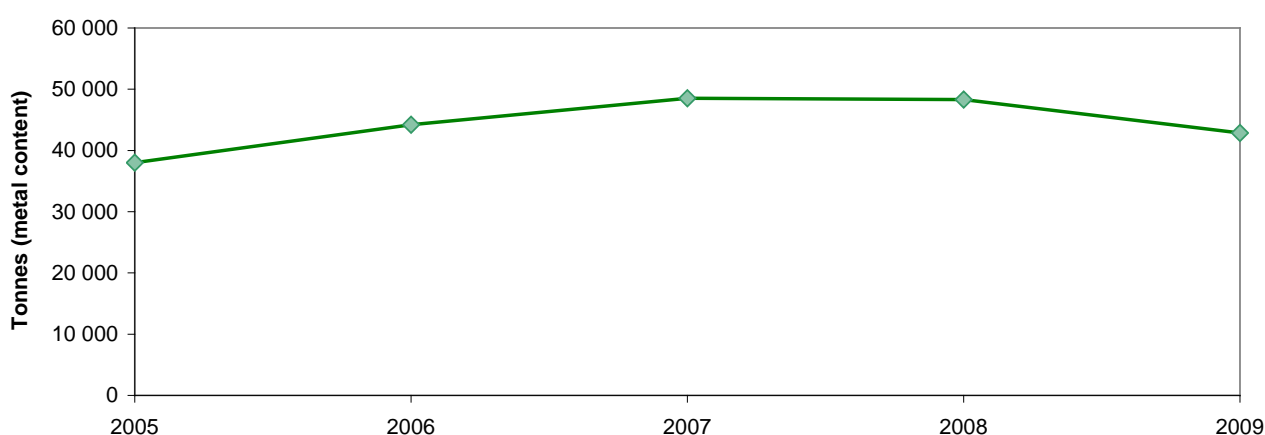


Mine production of nickel

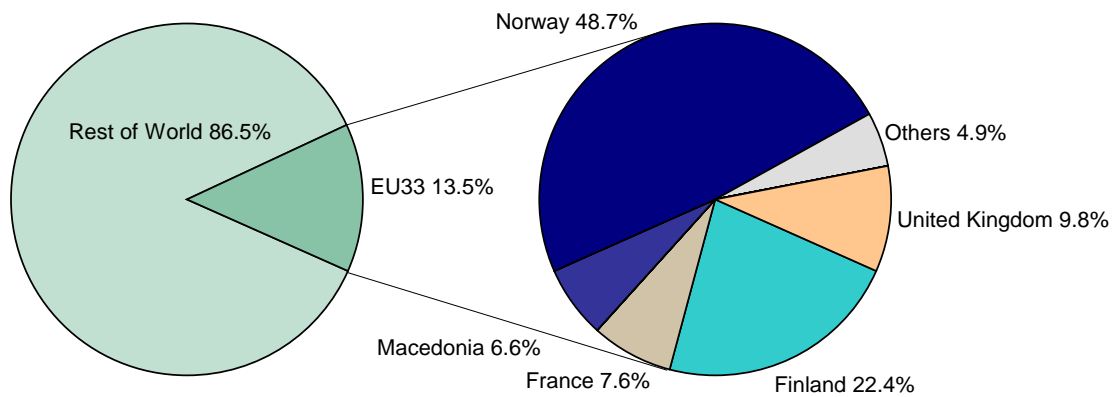
tonnes (metal content)

Country	2005	2006	2007	2008	2009
Finland	3 400	3 000	3 600	6 200	1 600
Greece	20 400	21 700	21 200	18 600	9 600
Macedonia	7 800	10 900	15 000	15 000	12 000
Norway	342	320	378	377	336
Spain	5 380	6 398	6 630	8 136	8 029
Turkey	700	1 900	1 700	—	11 300
EU33 Total	38 000	44 200	48 500	48 300	42 900

EU33 Mine production of nickel 2005 - 09



EU33 Smelter/refinery production of nickel 2009



Smelter/refinery production of nickel

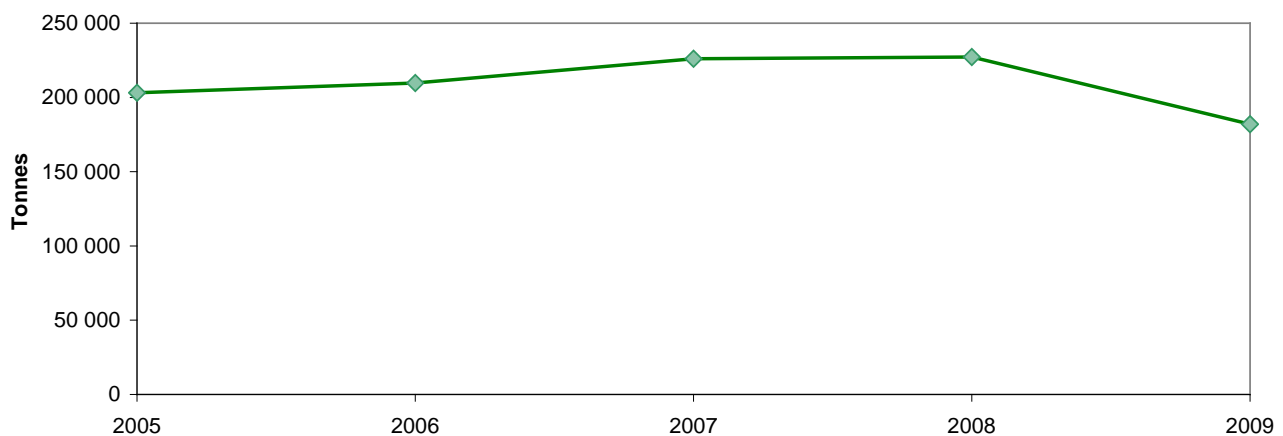
tonnes

Country	2005	2006	2007	2008	2009
Austria	1 000	900	900	500	700
Finland	39 159	47 469	55 000	51 963	40 800
France	12 684	13 700	14 800	13 700	13 900
Greece	19 235	17 700	18 668	16 640	8 269
Macedonia	8 141	10 942	15 000	15 000	12 000
Norway	85 374	82 257	87 600	88 700	88 577
United Kingdom	37 600	36 750	34 050	40 800	17 800
EU33 Total	203 200	209 700	226 000	227 300	182 000

Note(s)

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

EU33 Smelter/refinery production of nickel 2005 - 09



Exports of nickel

Country	2005	2006	2007	2008	2009
Austria					
Unwrought (a)	226	197	333	225	265
Scrap	1 927	2 337	2 208	1 910	1 775
Belgium-Luxembourg					
Ores & concentrates	853	877	1 423	2 750	6 883
Mattes, sinters etc	209	559	68	115	921
Unwrought	13 376	14 324	15 642	13 298	11 883
Unwrought alloys	2 510	1 994	2 401	2 152	2 479
Scrap	1 008	3 656	4 954	2 872	1 212
Oxides	702	685	476	1 196	843
Bulgaria					
Scrap	12	4	20	48	364
Czech Republic					
Scrap	843	1 036	1 245	601	2 420
Unwrought (a)	57	690	171	758	228
Oxides	658	602	617	643	275
Denmark					
Scrap	676	585	482	642	1 063
Estonia					
Scrap	34	713	1 260	840	89
Finland					
Ores & concentrates	...	—	—	14 069	—
Unwrought	30 628	37 747	43 427	40 108	37 202
Scrap	28	47	441	27	1 511
Oxides (b)	* 300	* 600	* 600	* 500	* 200
France					
Unwrought	10 148	11 761	12 308	10 754	12 095
Unwrought alloys	1 762	999	1 475	2 475	1 377
Scrap	6 373	7 826	7 578	7 558	11 435
Germany					
Ores & concentrates	7 822	8 901	2 520	316	1 619
Mattes, sinters etc	5 604	9 285	18 473	20 202	8 687
Unwrought	8 988	5 287	4 256	5 200	2 617
Unwrought alloys	9 376	9 970	9 664	8 988	3 083
Scrap	9 342	6 224	7 383	5 646	8 227
Greece					
Ores & concentrates	...	52 169	150	231	144 529
Hungary					
Scrap	60	...	40	81	203
Ireland, Republic of					
Scrap	641	1 015	556	236	220
Italy					
Unwrought (a)	1 720	799	1 272	972	1 293
Scrap	1 923	448	724	658	541
Latvia					
Unwrought alloys	...	...	...	2	165
Scrap	538	116	49	199	3 301
Lithuania					
Scrap	411	674	232	131	85
Netherlands					
Mattes, sinters etc (b)	* 11 800	* 11 700	* 6 500	* 2 400	* 2 900
Unwrought (a)	21 895	77 742	80	117	105
Scrap	2 009	1 740	4 456	4 614	1 711
Oxides	6 017	1 757	...	...	...
Norway					
Ores & concentrates	7 581	7 860	5 379	8 093	...
Unwrought	84 012	81 440	88 628	88 940	88 080
Scrap	897	641	1 185	394	274
Poland					
Mattes, sinters etc	...	...	...	...	1 443
Unwrought	(a) 480	312	(a) 466	(a) 334	(a) 172
Scrap	642	290	268	647	260
Oxides	529	577	558	759	260
Romania					
Scrap	61	72	90	1 397	1 089

Nickel

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Slovakia					
Unwrought	...	128	72	259	201
Scrap	...	134	116	1 061	140
Slovenia					
Unwrought (a)	117	118	232	268	117
Spain					
Ores & concentrates	85 203	95 377	65 853	127 812	102 105
Unwrought (a)	572	795	767	600	573
Scrap	528	910	227	226	875
Sweden					
Unwrought (a)	112	516	390	288	522
Scrap	4 369	5 743	5 344	1 513	1 376
Oxides	291	349	457	511	363
Switzerland					
Unwrought (a)	73	154	113	94	53
Scrap	1 403	1 669	1 750	1 603	1 519
Turkey					
Ores & concentrates	52 062	91 828	175 712	130 179	99 700
Unwrought (a)	48	9	—	232	141
Scrap	300	102	79	734	470
United Kingdom					
Unwrought	38 524	31 610	24 147	26 235	15 834
Unwrought alloys	6 141	6 486	4 375	4 378	4 753
Scrap	14 119	15 555	16 872	18 229	12 693

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	2005	2006	2007	2008	2009
Austria					
Mattes, sinters etc	460	684	443	476	216
Unwrought (a)	6 903	7 599	7 874	10 511	4 142
Scrap	447	670	605	1 164	367
Oxides	312	195	78	82	11
Belgium-Luxembourg					
Mattes, sinters etc	214	203	1 194	1 250	499
Unwrought	41 364	51 130	37 554	29 492	12 037
Unwrought alloys	822	483	427	734	734
Scrap	1 221	271	9 946	566	288
Oxides	324	349	241	618	565
Bulgaria					
Unwrought (a)	202	205	195	204	90
Czech Republic					
Unwrought (a)	2 520	3 531	4 429	3 728	2 179
Scrap	69	152	294	473	1 468
Oxides	785	844	919	838	319
Denmark					
Scrap	317	403	529	100	122
Estonia					
Unwrought (a)	548	1 378	350	34	15
Scrap	125	562	803	129	—
Finland					
Ores & concentrates	104 983	190 233	256 932	290 914	185 202
Mattes, sinters etc	50 194	45 851	50 856	33 247	22 715
Unwrought (a)	23 801	27 939	15 457	18 201	9 984
Scrap	860	757	299	481	149

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
France					
Ores & concentrates	76	149	1 131	413	1 783
Mattes, sinters etc	15 399	19 818	19 864	18 952	20 015
Unwrought	22 656	26 631	25 752	23 368	10 909
Unwrought alloys	6 104	5 500	7 702	9 386	5 364
Scrap	1 554	2 393	1 341	2 166	1 265
Oxides	228	297	542	560	310
Germany					
Ores & concentrates	57	293	1 532	1 310	1 087
Mattes, sinters etc	6 902	6 459	1 911	797	561
Unwrought	87 939	70 947	74 083	68 767	42 201
Unwrought alloys	2 182	2 908	2 531	6 102	3 839
Scrap	11 672	15 116	19 799	18 316	8 259
Oxides	502	445	593	617	463
Greece					
Ores & concentrates	29 153	6 657	36	—	15
Unwrought (a)	58	40	46	101	118
Hungary					
Unwrought (a)	115	141	116	69	219
Ireland, Republic of					
Unwrought (a)	1 775	1 256	97	1 118	626
Italy					
Mattes, sinters etc	32	1 550	1	1	93
Unwrought	37 708	48 178	41 802	42 339	25 833
Unwrought alloys	1 455	3 918	1 613	2 164	2 841
Scrap	5 119	1 606	1 372	892	763
Macedonia					
Ores & concentrates	236 025	466 623	863 999	789 929	...
Netherlands					
Unwrought alloys	343	139	204	1 227	227
Scrap	6 738	9 870	14 008	12 647	4 666
Oxides (b)	* 40	* 130	* 20	* 30	* 70
Norway					
Mattes, sinters etc	176 657	158 274	165 628	178 502	153 437
Unwrought (a)	80	60	215	201	199
Poland					
Mattes, sinters etc	...	4	38	...	1 468
Unwrought (a)	1 683	2 573	2 344	3 398	1 353
Scrap	3	116	4 897	3 683	2 122
Portugal					
Unwrought	(a) 602	(a) 739	(a) 450	524	316
Romania					
Unwrought (a)	745	747	528	338	288
Slovakia					
Unwrought (a)	274	221	139	190	120
Slovenia					
Unwrought (a)	929	874	967	2 686	2 020
Spain					
Unwrought	27 452	28 171	21 202	22 668	12 290
Unwrought alloys	1 188	1 174	1 426	1 547	821
Oxides	176	127	94	151	50
Sweden					
Mattes, sinters etc	4 346	4 215	4 252	1 490	1 607
Unwrought	26 931	28 101	25 303	25 474	16 544
Unwrought alloys	1 324	1 414	356	1 317	661
Scrap	8 946	9 158	9 118	12 215	8 709
Switzerland					
Unwrought (a)	1 401	1 706	1 787	2 054	1 202
Turkey					
Unwrought (a)	3 333	3 417	3 710	4 038	2 711
Oxides	128	150	140	142	148

Nickel

Imports continued

tonnes

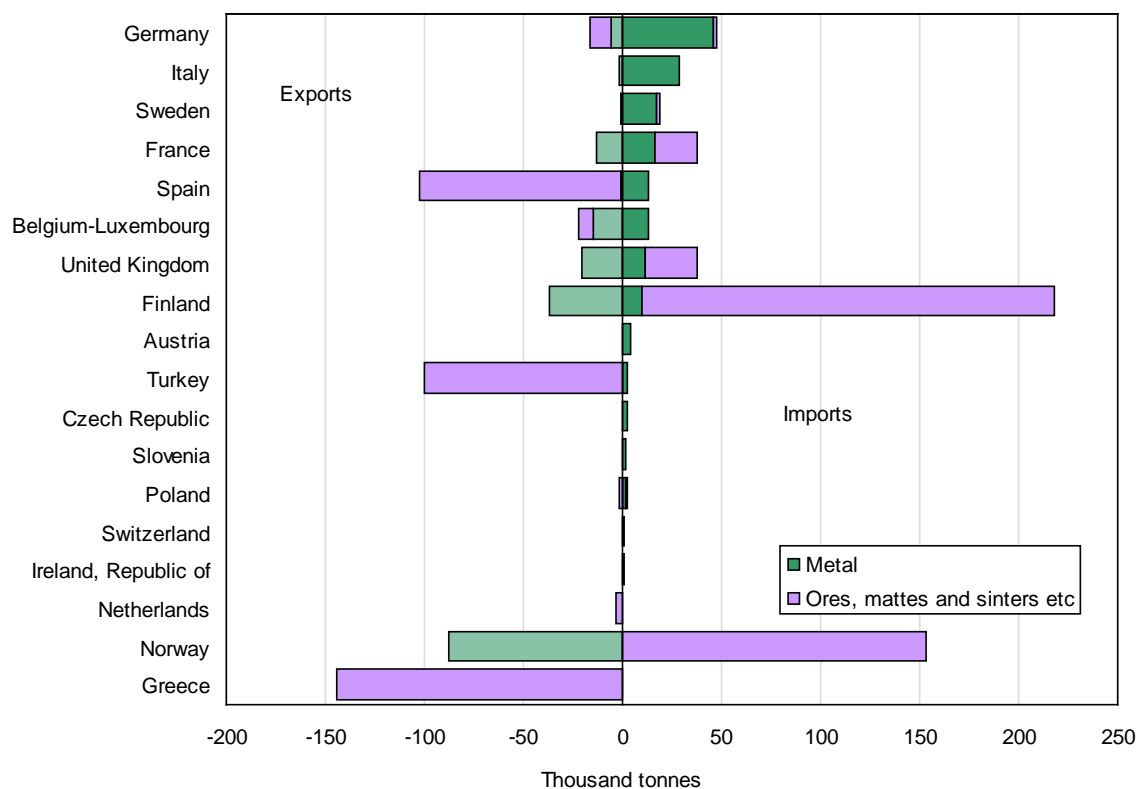
Country	2005	2006	2007	2008	2009
United Kingdom					
Mattes, sinters etc	57 492	56 336	62 637	63 553	25 929
Unwrought	24 019	17 414	21 044	16 888	8 003
Unwrought alloys	1 629	2 883	2 947	3 210	3 596
Scrap	10 927	7 975	10 376	10 291	9 593
Oxides	277	59	49	13	1

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 exports from certain countries

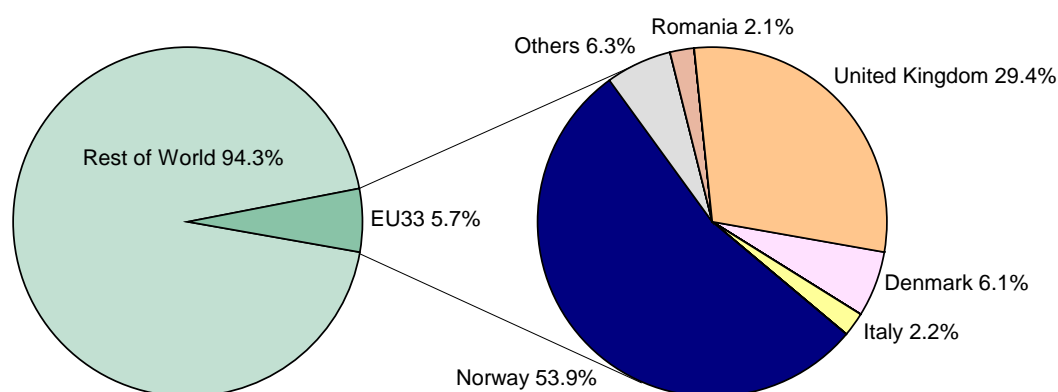
Nickel - EU33 trade in 2009



Crude petroleum

- Petroleum ('oil') is a fundamental energy resource and raw material for lubricants, olefins, polymers (plastics) and other synthetic materials.
- In 2009 a world total of 3714 million tonnes of crude petroleum was produced, down nearly five per cent compared to 2008. Russia overtook Saudi Arabia to become the largest producing country for the first time, with 13.3 per cent of the world total. Saudi Arabia produced 12.4 per cent and was followed by the USA with nine per cent. The EU33 countries produced just 5.7 per cent of the world total with 53.9 per cent of this coming from Norway and 29.4 per cent from the UK.

EU33 Production of crude petroleum 2009



Production of crude petroleum

tonnes

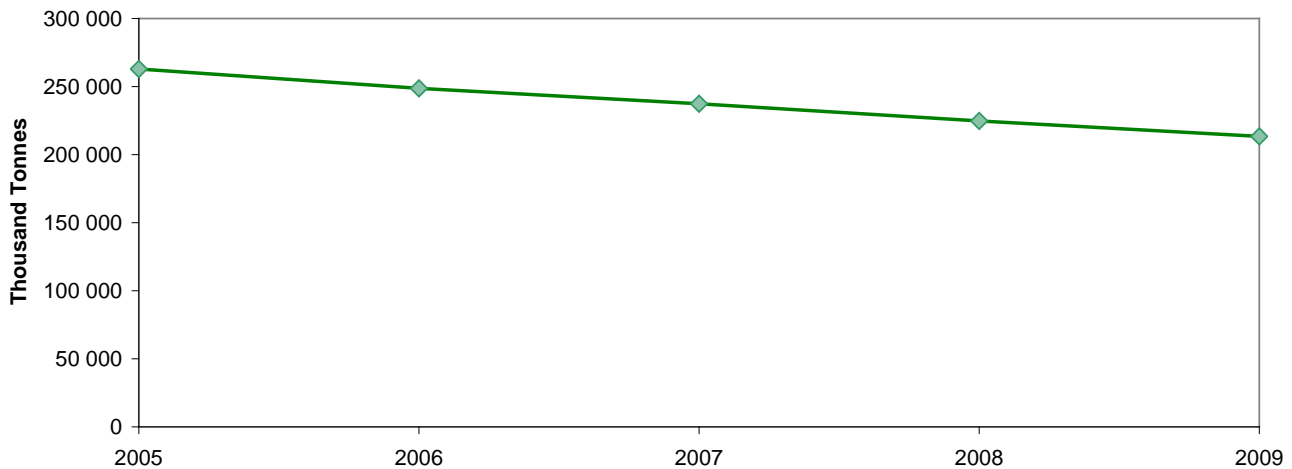
Country	2005	2006	2007	2008	2009
Austria	933 040	856 270	853 549	861 639	905 031
Bulgaria	30 000	27 500	25 700	23 000	23 800
Croatia	980 486	950 859	911 207	867 027	* 900 000
Czech Republic	306 000	259 000	240 000	236 000	217 000
Denmark	18 822 000	17 068 000	15 552 000	14 338 000	13 045 000
Estonia (a)	1 690 000	1 624 000	1 901 600	1 869 500	1 733 000
France	1 179 000	1 100 000	1 013 000	975 000	899 000
Germany	3 815 173	3 515 401	3 415 374	3 053 998	2 800 063
Greece	135 000	93 000	80 000	66 000	87 000
Hungary	947 542	886 000	838 672	774 590	842 191
Italy	6 100 000	5 800 000	5 800 000	5 200 000	4 600 000
Lithuania	216 634	180 894	154 449	127 658	114 956
Netherlands	2 268 746	2 022 475	2 576 222	2 163 000	1 704 000
Norway	139 802 000	136 695 000	125 763 000	121 101 700	115 000 000
Poland	847 844	795 742	720 603	754 907	686 992
Romania	5 215 000	4 777 000	4 837 000	4 528 000	4 494 000
Slovakia	35 000	30 520	23 000	21 000	19 000
Spain	166 014	143 432	142 879	127 542	106 817
Turkey	2 280 764	2 175 353	2 131 288	2 222 594	2 489 914
United Kingdom	77 179 000	69 665 000	70 357 000	65 497 000	62 820 000
EU33 Total	262 000 000	247 800 000	236 500 000	223 900 000	212 600 000

Note(s)

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

(a) From oil shale

EU33 Production of crude petroleum 2005 - 09



Exports of crude petroleum

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg	2 616 977	2 833 897	2 422 211	2 496 349	2 390 390
Czech Republic	57 522	41 794	16 573	18 130	21 600
Denmark	13 567 566	11 456 257	9 493 573	8 593 198	8 520 980
France	20 374	2 675	190	65	1 689
Germany	1 257 658	344 965	196 926	40 011	265 799
Ireland, Republic of	7	11	55 635	—	11
Italy	986 121	937 813	1 442 498	1 195 500	619 630
Latvia	6 085	12 099	—	...	93
Lithuania	148 031	115 075	155 416	128 838	113 172
Netherlands	145 541	309 456	207 858	328 795	184 860
Norway	119 119 538	105 110 521	99 245 180	90 343 623	87 847 502
Poland	216 256	243 699	287 684	34 871	17 227
Slovakia	30 887	27 686	22 172	18 159	14 932
Spain (a)	* 28 000	* 53 000	* 2 000	* 24 000	* 400
Turkey (a)	* 75 000	* 545 000	* 3 584 000	* 4 115 000	* 2 956 000
United Kingdom	50 619 044	47 864 601	47 058 702	43 354 245	43 550 953

Note(s)

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

Imports of crude petroleum

tonnes

Country	2005	2006	2007	2008	2009
Austria	7 836 688	7 698 169	7 645 010	7 945 639	7 428 183
Belgium-Luxembourg	32 376 844	33 843 960	34 847 067	35 556 838	32 376 844
Bulgaria	(a)* 3 752 000	(a)* 4 866 000	7 162 499	7 262 658	5 770 397
Croatia	3 855 070	3 778 918	4 285 565	3 476 266	4 044 874
Czech Republic	7 674 771	7 752 356	7 179 766	8 141 759	7 451 765
Denmark	2 666 384	2 576 191	2 136 643	2 240 240	3 320 486
Finland	10 603 534	12 176 669	12 221 330	11 908 304	11 516 562
France	84 951 337	83 411 036	81 011 061	81 854 226	70 343 956
Germany	113 067 864	113 960 654	105 162 534	105 835 665	97 648 203
Greece	18 926 138	18 370 720	16 938 841	6 422 841	2 437 424
Hungary	6 320 762	(a)* 7 667 000	6 064 641	(a)* 6 959 000	(a)* 6 241 000
Ireland, Republic of	3 226 383	3 082 372	3 595 537	2 878 397	2 792 968
Italy	89 007 151	86 807 240	89 130 022	82 998 642	76 301 866
Lithuania	9 746 806	7 994 367	4 869 858	9 325 904	8 413 067
Macedonia	950 742	1 081 738	1 063 614	1 057 671	...
Netherlands	62 152 486	61 548 064	57 027 374	58 484 561	35 086 584

Imports continued

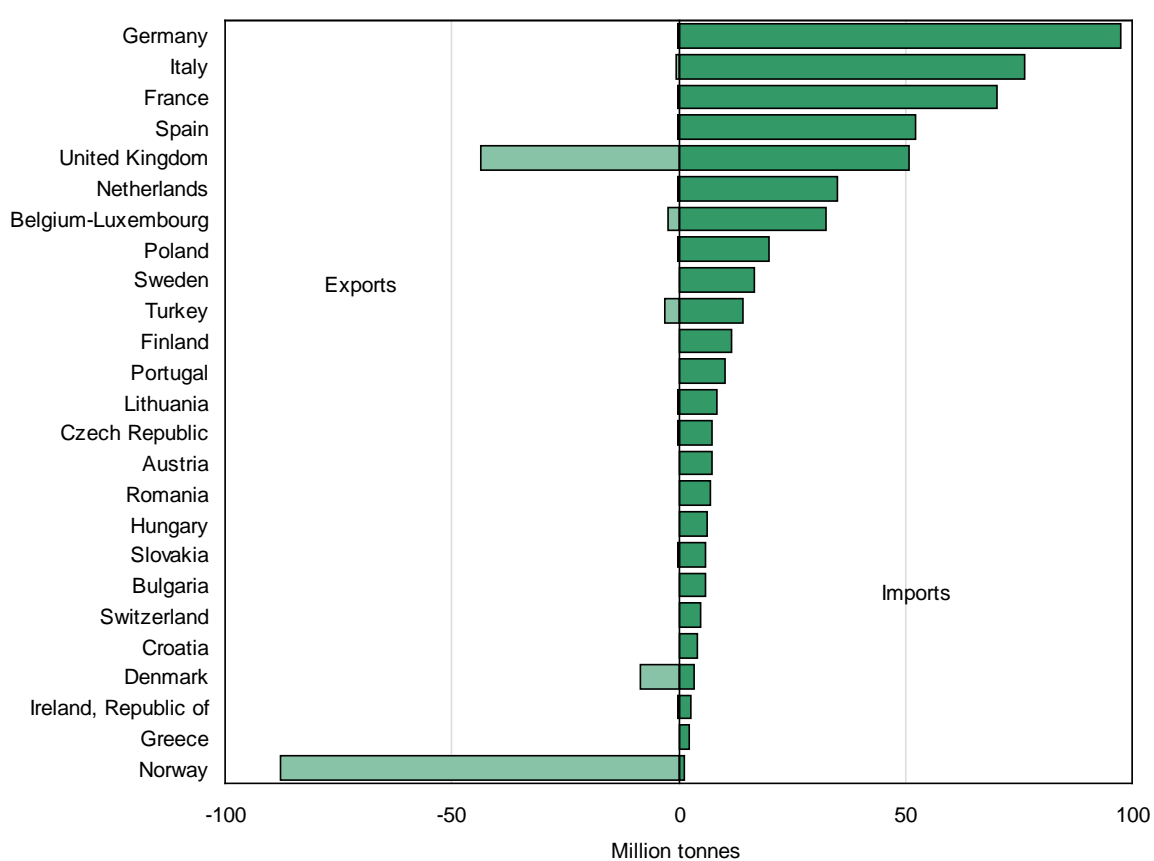
tonnes

Country	2005	2006	2007	2008	2009
Norway	983 848	440 374	1 446 918	752 400	1 192 549
Poland	17 639 489	19 479 284	20 778 118	20 949 949	19 959 321
Portugal	12 941 851	13 479 579	12 386 104	12 050 226	10 193 366
Romania	8 688 818	8 678 466	8 533 821	8 419 364	6 893 956
Slovakia	5 421 866	5 878 819	6 141 203	5 778 688	5 787 725
Spain	59 510 408	59 203 359	57 773 847	59 444 410	52 331 324
Sweden	19 770 639	19 170 472	17 719 046	19 184 387	16 818 080
Switzerland	4 744 965	5 413 010	4 595 181	5 141 634	4 755 189
Turkey	23 389 647	23 786 875	23 445 764	21 833 471	14 219 427
United Kingdom	54 067 943	55 735 570	44 129 689	52 103 843	50 656 965

Note(s)

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

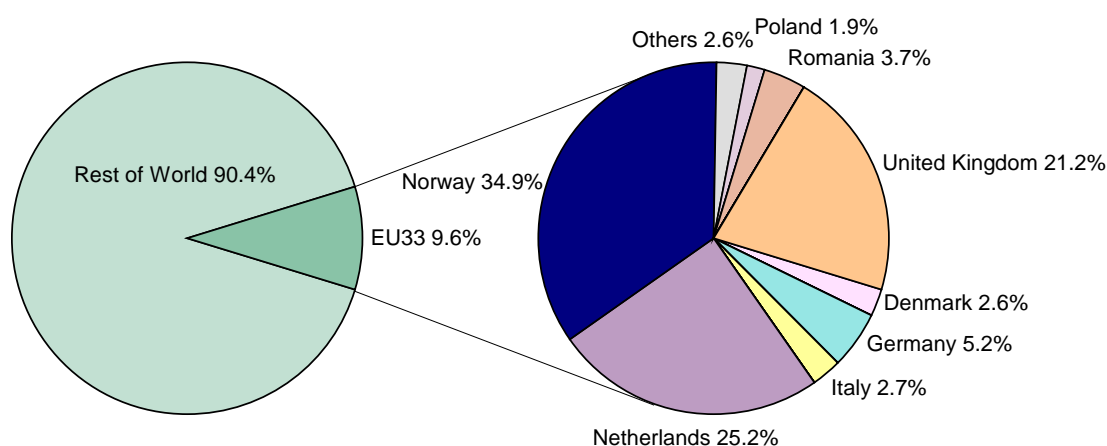
Crude petroleum - EU33 trade in 2009



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).
- In 2009 a total of 3 093 000 million cubic metres of gas was produced in the world. The USA (19.2 per cent of the world total) overtook Russia (18.9 per cent) to become the world's largest producer. The EU33 countries contributed 9.6 per cent to the world total, with 34.9 per cent of this coming from Norway, 25.2 per cent from the Netherlands and 21.2 per cent from the UK.

EU33 Production of natural gas 2009



Production of natural gas

million m³

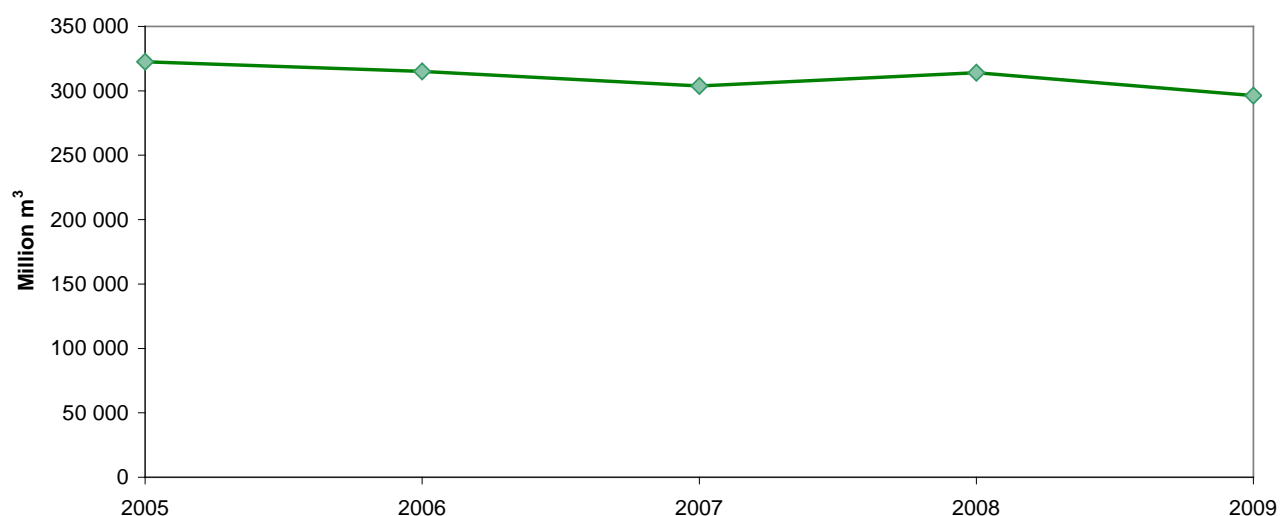
Country	2005	2006	2007	2008	2009
Austria	1 654	1 765	1 835	1 544	1 559
Bulgaria	573	519	295	218	15
Croatia	2 384	2 714	2 892	1 229	1 238
Czech Republic	356	148	148	167	180
Denmark	9 909	9 861	8 760	9 564	7 590
France	1 089	1 167	1 023	925	877
Germany	19 143	19 798	18 075	16 547	15 554
Greece	16	* 16	21	14	11
Hungary	3 041	3 254	2 653	2 703	2 748
Ireland, Republic of (a)	570	500	519	506	414
Italy	11 977	11 000	9 700	9 300	7 900
Netherlands	74 460	73 300	72 431	79 325	74 659
Norway	84 702	87 600	89 700	99 200	103 500
Poland	5 742	5 651	5 653	5 382	5 537
Romania	12 637	12 422	11 981	11 520	10 900
Slovakia	211	135	195	111	114
Slovenia	6	4	3	3	3
Spain	174	118	42	46	20
Turkey	484	307	839	894	660
United Kingdom	93 505	84 748	76 970	74 936	62 890
EU33 Total	175 321 000	169 313 300	162 301 900	163 312 600	145 294 800

Note(s)

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

(a) Sales

EU33 Production of natural gas 2005 - 09



Exports of Natural Gas

tonnes

Country	2005	2006	2007	2008	2009
Austria	1 082 286	1 645 995	2 688 210	2 812 303	2 164 960
Belgium-Luxembourg	17 889 507	39 448 874	20 807 227	59 248 950	7 659 170
Croatia	601 267	871 768	540 782	457 192	570 296
Czech Republic	58 767	—	—	—	834 462
Denmark	3 466 835	3 818 822	3 786 580	4 023 305	2 906 339
Finland	328	—	1 218	1 420	4 557
France	9 107 475	11 501 866	10 247 611	22 087 224	3 469 724
Germany	...	...	...	...	8 592 523
Hungary	11 560	—	127 853	—	323 537
Ireland, Republic of	—	642 980	5 447	—	383
Italy	649 706	331 234	585 818	1 749 247	1 620 776
Norway	61 351 894	63 323 422	63 999 250	71 394 708	74 357 298
Poland	26 501	—	—	—	—
Portugal	—	—	—	890 688	254 997
Slovakia	257 026	221 885	124 820	112 328	334 205
Slovenia	72 043	54 579	34 212	24 368	3
Spain	778 037	1 546	31 159	—	61 433
Switzerland	3 244	1	4	2	4
Turkey	—	2 974	5 392	412 655	665 247
United Kingdom	1 373 020	60 124	30 814	7 641	1 416

Note(s)

- (1) This table includes both liquified natural gas (HS code: 271111) in tonnes and natural gas in gaseous state (HS code 271121) in tonnes of oil equivalent
- (2) To convert figures from million tonnes (of oil equivalent) to billion m³, multiply by 1.11

Imports of Natural Gas

tonnes

Country	2005	2006	2007	2008	2009
Austria	6 922 117	7 593 331	6 988 269	7 136 000	7 566 509
Belgium-Luxembourg	31 896 566	32 123 464	29 397 014	29 615 925	32 320 773
Croatia	1 088 406	1 085 554	700 955	855 326	738 109
Czech Republic	6 733 431	5 489 325	5 478 515	6 264 909	7 080 247
Denmark	242 936	—	—	—	—
Estonia	155 659	154 926	726 823	717 831	477 844
Finland	3 068 411	3 312 381	3 172 117	3 269 068	—
France	48 574 413	62 023 544	75 216 254	79 101 617	32 440 935
Germany	78 310 541	83 475 456	75 980 087	78 201 702	78 990 573
Greece	2 634 247	3 029 778	3 789 666	4 186 746	3 086 243
Hungary	8 238 371	8 013 603	7 366 053	8 574 143	6 238 749
Ireland, Republic of	2 383 218	1 946 640	3 838 104	4 364 595	4 192 236
Italy	39 034 000	42 870 000	71 491 000	36 489 000	52 879 546
Latvia	1 153 086	1 201 960	1 158 965	1 138 776	1 047 240
Lithuania	2 071 091	2 129 513	2 414 798	2 246 642	1 761 529
Macedonia	52 416	56 876	63 225	86 823	53 192
Netherlands	14 229 445	29 784 906	10 072 000	16 136 000	7 506 000
Norway	—	—	118 063	442	231
Poland	7 118 539	—	—	...	...
Portugal	3 588 097	3 356 949	3 758 075	4 188 706	3 770 943
Romania	4 140 078	4 048 749	8 877 219	7 757 273	1 451 767
Slovakia	5 177 312	5 157 793	4 249 360	4 640 012	4 820 301
Slovenia	851 258	811 065	807 877	750 581	748 930
Spain	24 439 892	26 548 202	27 048 984	32 044 466	28 024 572
Sweden	618 697	372 627	749 162	647 510	860 497
Switzerland	2 539 454	2 560 801	2 402 267	2 596 153	2 450 414
United Kingdom	7 309 558	7 881 575	15 277 213	18 133 087	25 002 507

Note(s)

- (1) This table includes both liquified natural gas (HS code: 271111) in tonnes and natural gas in gaseous state (HS code 271121) in tonnes of oil equivalent
- (2) To convert figures from million tonnes (of oil equivalent) to billion m³, multiply by 1.11

Phosphate rock

- Phosphate rock is the term given to a range of phosphorus-bearing minerals that are commercially exploited. Over 90 per cent 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, the USA and Morocco are the world's largest producers and together the output from these countries represents 66 per cent of the world's phosphate rock. Finland is the only producer in the EU33, which is otherwise dependent on imports.

Production of phosphate rock

tonnes

Country	2005	2006	2007	2008	2009
Finland	822 987	857 922	830 989	780 000	660 405

Exports of phosphate rock

tonnes

Country	2005	2006	2007	2008	2009
Austria	1	942	—	...	621
Belgium-Luxembourg	108 238	82 232	115 628	84 619	15 794
Cyprus	...	...	...	2 960	...
Czech Republic	545	726	732	1 091	817
Finland	996	1 141	6 942	3 248	3 796
France	4 463	10 147	15 919	96 127	—
Germany	5 048	700	168	314	137
Italy	4 883	6 789	7 800	7 661	6 416
Lithuania	150	1 406	2 011	140	—
Macedonia	3 388	1 944	2 050	1 685	1 233
Netherlands	91 592	98 687	106 235	120 214	11 807
Poland	...	...	—	...	...
Slovakia	438	2 603	—	...	48
Slovenia	189 207	140 281	109 350	164 848	56 973
Spain	42	7 259	7 840	4 754	1 565
Sweden	392	969	1 623	4 897	1 228
United Kingdom	1 548	335	504	759	514

Imports of phosphate rock

tonnes

Country	2005	2006	2007	2008	2009
Austria	67 853	94 630	106 018	(a)* 158 000	(a)* 58 000
Belgium-Luxembourg	1 688 029	1 299 125	1 512 076	1 458 336	579 427
Bulgaria	543 637	449 874	462 247	534 734	309 564
Croatia	272 005	317 571	327 936	328 599	117 441
Czech Republic	22 633	28 141	33 954	20 928	543
Finland	56 117	86 734	113 286	118 749	—
France	427 194	387 794	442 826	374 792	130 323
Germany	104 335	117 711	115 109	145 905	28 863
Greece	378 931	197 629	237 577	251 845	192 135
Ireland, Republic of	219	154	6 028	3 425	85
Italy	279 693	242 633	249 847	248 005	89 245
Lithuania	1 178 816	1 193 093	1 202 196	1 209 385	1 162 070
Netherlands	776 661	815 692	847 776	1 108 711	192 355
Norway	710 528	672 546	673 331	682 369	403 098
Poland	1 558 007	1 658 266	1 689 120	1 448 780	458 923
Portugal	137 423	91 912	114 826	90 667	44 189
Romania	283 192	148 110	193 276	225 581	103 500
Slovakia	5 415	494	267	251	258
Slovenia	...	140 455	109 768	164 872	56 969
Spain	1 768 425	1 556 734	1 653 874	1 611 494	438 755

Phosphates

Imports continued

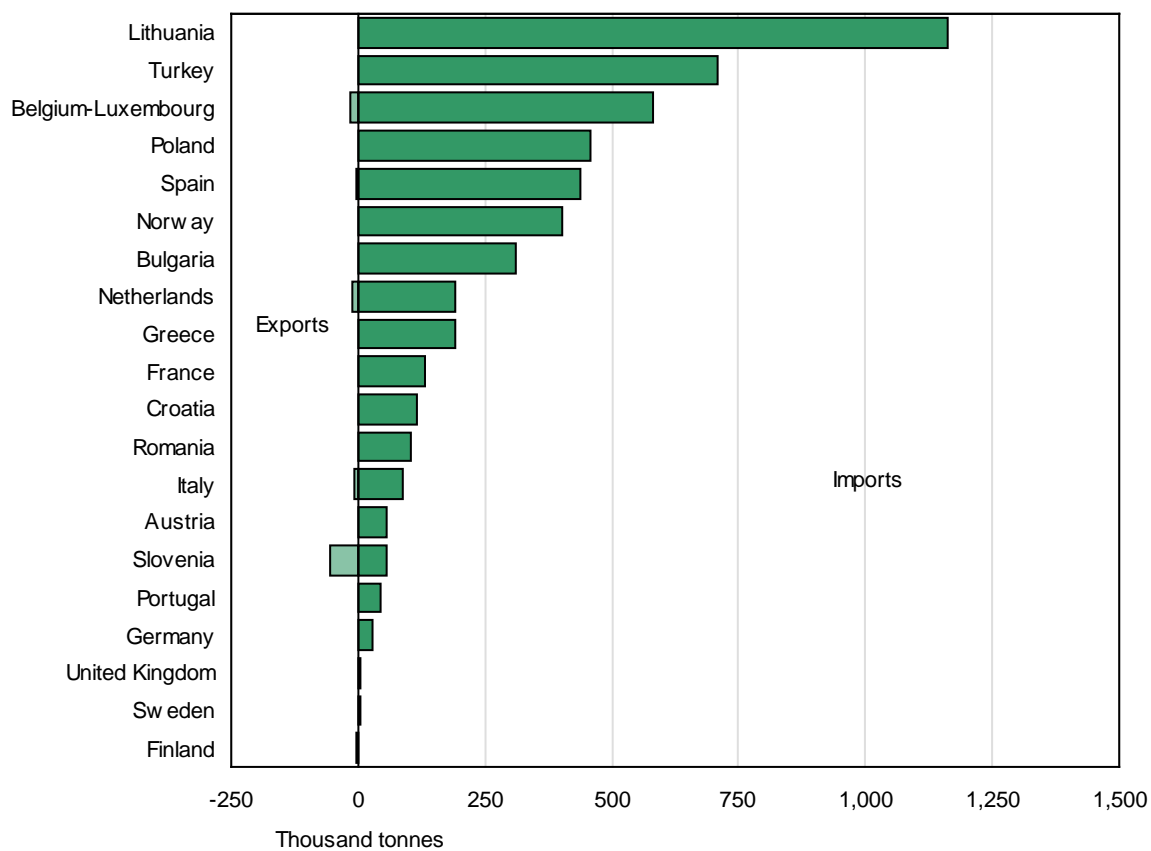
tonnes

Country	2005	2006	2007	2008	2009
Sweden	1 626	4 283	2 369	922	2 918
Switzerland	3 516	1 612	4 645	358	585
Turkey	496 738	744 504	782 996	741 190	707 595
United Kingdom	30 177	7 803	23 052	28 971	5 600

Note(s)

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

Phosphate rock - EU33 trade in 2009



Platinum group metals

- The platinum group metals (PGMs) are platinum, palladium, rhodium, ruthenium, osmium and iridium. Of these, platinum and palladium are the most commercially significant. Platinum and palladium have important applications in electronics, jewellery and as catalysts (in catalytic converters for vehicles and in many industrial processes). They are also investment commodities.
- Mine production is confined to a handful of countries. The largest producers in 2009 were South Africa (63 per cent - chiefly platinum) and Russia (26 per cent - mainly palladium). There is no EU33 mine production.

Exports of platinum group metals

kilograms

Country	2005	2006	2007	2008	2009
Austria					
Platinum & platinum metals	£12 253 000	£14 817 000	£30 801 000	£52 298 000	£38 485 000
Waste & scrap	£397 000	£281 000	£621 000	£621 000	£295 000
Belgium-Luxembourg					
Platinum	700	2 600	4 100	7 800	2 200
Platinum metals	2 100	3 000	6 400	6 400	3 500
Waste & scrap	305 700	934 000	592 300	649 800	339 900
Bulgaria					
Waste & scrap (a)	* 31 400	* 73 200	* 94 700	* 1 400	* 44 000
Croatia					
Waste & scrap	76 039	27 719	18 314	27 018	27 959
Czech Republic					
Platinum & platinum metals	(a)* 3 300	(a)* 500	(a)* 800	3 400	5 200
Waste & scrap	4 500	4 700	1 900	700	—
Denmark					
Platinum & platinum metals	1 435	32	48	1	7 000
Finland					
Platinum & platinum metals	5	23	19	30	34 126
Waste & scrap	75 669	713	463	218	267
France					
Platinum	3 324	5 283	4 758	2 033	1 140
Platinum metals	4 075	3 565	2 800	2 120	1 396
Waste & scrap	184 400	383 300	190 100	282 400	609 699
Germany					
Platinum	43 300	40 600	28 100	27 700	36 204
Palladium	20 800	24 400	27 800	28 600	43 329
Other platinum metals	11 100	16 000	22 300	24 700	65 029
Waste & scrap	1 648 800	2 797 600	3 399 700	3 238 800	3 352 271
Hungary					
Waste & scrap	...	...	89 200	...	...
Ireland, Republic of					
Waste & scrap	7 900	6 523	7 179	16 854	8 544
Italy					
Platinum	6 555	9 542	11 783	13 350	10 043
Platinum metals	6 039	6 951	5 828	8 295	8 898
Waste & scrap	206	1 065	94 988	257	311
Latvia					
Waste & scrap	1 002	468	219	181	—
Lithuania					
Waste & scrap	...	16	404	62 710	101 900
Netherlands					
Platinum	£9 061 000	£8 718 000	£8 190 000	£18 207 000	£59 804 000
Platinum metals	£8 211 000	£3 971 000	£3 766 000	£10 385 000	£10 383 000
Waste & scrap	876	16 569	25 850	352 175	* 163 160
Norway					
Platinum & platinum metals	11 871	11 885	14 611	15 393	12 341
Waste & scrap	342	29 817	66 193	5 119	35 829
Poland					
Platinum & platinum metals	903	350	156	7 275	47 400
Waste & scrap	60	4 312	139	7 399	1 600
Portugal					
Waste & scrap	...	...	33 500	...	—
Slovenia					
Platinum & platinum metals	47	248	84	110	400

Platinum Metals

Exports continued

kilograms

Country	2005	2006	2007	2008	2009
Spain					
Platinum & platinum metals	152	363	434	3 104	1 672
Waste & scrap	2 892	290	44	88 069	225 411
Sweden					
Platinum & platinum metals	£663 000	£1 514 000	£900 000	£851 000	£177 000
Waste & scrap	25 000	280 000	242 500	575 300	40 400
Switzerland					
Platinum	42 102	62 243	57 569	69 404	61 433
Palladium	75 105	46 578	52 880	86 503	57 571
Other platinum metals	2 047	292	636	717	192
Waste & scrap	235 630	200 470	393 326	616 867	362 419
United Kingdom					
Platinum	41 500	42 843	52 789	40 630	43 177
Palladium	51 807	48 688	56 994	47 142	53 091
Other platinum metals	17 852	23 353	23 731	22 548	20 044
Waste & scrap	2 881 226	3 507 381	3 793 637	4 278 682	4 273 222

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 conversions.

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

Imports of platinum group metals

kilograms

Country	2005	2006	2007	2008	2009
Austria					
Platinum & platinum metals	7 200	8 400	1 100	700	1 600
Belgium-Luxembourg					
Platinum	88 976	6 421	13 300	28 600	5 900
Platinum metals	2 873	4 061	2 000	100	200
Bulgaria					
Platinum & platinum metals	366	31	82 367	613	16
Croatia					
Platinum & platinum metals	12 320	107	171	152	76
Cyprus					
Platinum & platinum metals	97	73	70	528	1 900
Czech Republic					
Platinum & platinum metals	1 289	4 599	576	90 290	82 291
Waste & scrap	55	86	913	4 300	700
Denmark					
Platinum & platinum metals	2 076	2 962	6 952	6 448	4 699
Finland					
Platinum & platinum metals	495	309	198	365	284
France					
Platinum	5 390	4 455	6 263	8 471	3 633
Platinum metals	3 500	3 711	3 631	4 404	5 348
Waste & scrap	55 600	370 600	114 300	241 200	359 138
Germany					
Platinum	58 400	46 900	51 500	47 100	42 452
Palladium	56 000	42 000	54 700	55 100	47 092
Other platinum metals	9 100	8 700	9 700	6 400	12 120
Waste & scrap	6 574 600	9 332 700	11 442 800	10 983 600	6 224 314
Greece					
Platinum & platinum metals	181	248	7 400	300	100
Hungary					
Platinum & platinum metals	985	91	126	453	26
Iceland					
Platinum & platinum metals	371	70	960	162	158
Ireland, Republic of					
Platinum & platinum metals	4 934	3 999	10 425	2 185	121 428

Imports continued

kilograms

Country	2005	2006	2007	2008	2009
Italy					
Platinum	15 586	17 279	20 491	16 570	13 627
Palladium	16 178	15 943	18 880	20 593	13 047
Other platinum metals	3 005	3 077	1 811	2 426	1 909
Waste & scrap	2 085	431	447	7 646	8 178
Latvia					
Waste & scrap	...	...	1 900	2 900	12 000
Lithuania					
Waste & scrap	5 403	26 700	65 900	40 800	22 700
Netherlands					
Platinum	£12 517 000	£21 771 000	£22 785 000	£89 137 000	£78 613 000
Platinum metals	£3 682 000	£7 066 000	£7 722 000	£8 219 000	£11 659 000
Norway					
Platinum & platinum metals	1 076	922	1 057	1 072	1 005
Waste & scrap	998	1 102	846	1 093	930
Poland					
Platinum & platinum metals	3 560	15 500	16 400	16 900	31 300
Slovakia					
Platinum	60	23 016	348 975	1 573 410	1 075 100
Slovenia					
Platinum & platinum metals	120	449	177	177	132
Spain					
Platinum & platinum metals (a)	* 6 000	* 5 600	* 4 500	* 3 900	* 3 000
Waste & scrap	122	526	4 111	8 947	29 448
Sweden					
Platinum & platinum metals	£6 513 000	£4 509 000	£6 109 000	£8 722 000	£5 934 000
Waste & scrap	577 000	618 000	731 700	13 800	80 200
Switzerland					
Platinum	51 377	76 842	43 113	67 022	91 048
Palladium	46 565	126 416	46 744	60 666	50 258
Other platinum metals	780	1 078	913	1 255	1 319
Waste & scrap	156 229	172 679	267 258	494 962	688 973
Turkey					
Platinum & platinum metals	188	212	316	463	235
United Kingdom					
Platinum	51 553	23 472	26 015	29 943	30 339
Palladium	30 576	37 226	42 395	32 806	36 652
Other platinum metals	7 134	9 127	6 507	5 409	6 713
Waste & scrap	1 271 315	1 148 802	1 456 413	1 416 905	1 100 117

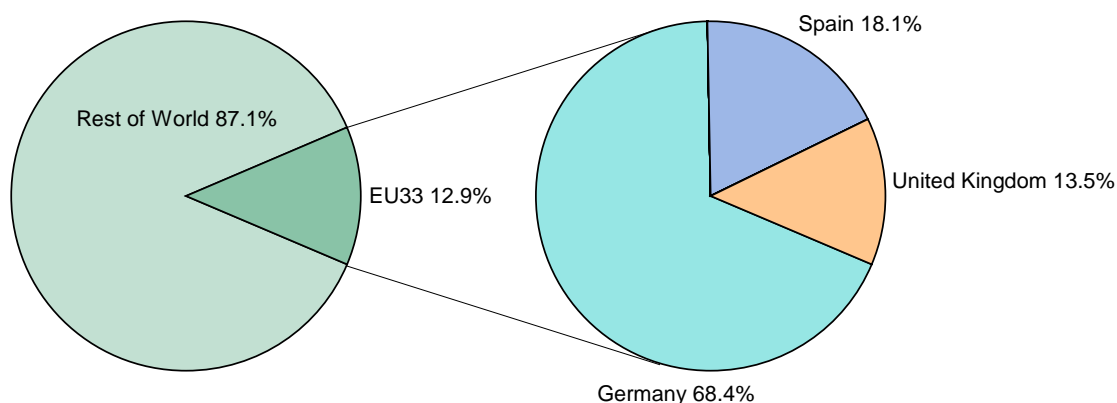
Note(s)

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

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, with only 13 countries producing potash in 2009. The world's total output fell by nearly 37 per cent in 2009 compared to 2008 as production in all of the top three producers declined significantly. Despite this, Canada, Russia and Belarus together still generated 51 per cent of world production. The EU33 is a significant producer of potash, producing 12.9 per cent of world production in 2009. Most of this was from Germany (68.4 per cent of EU33 total and nine per cent of the world total).

EU33 Production of potash 2009

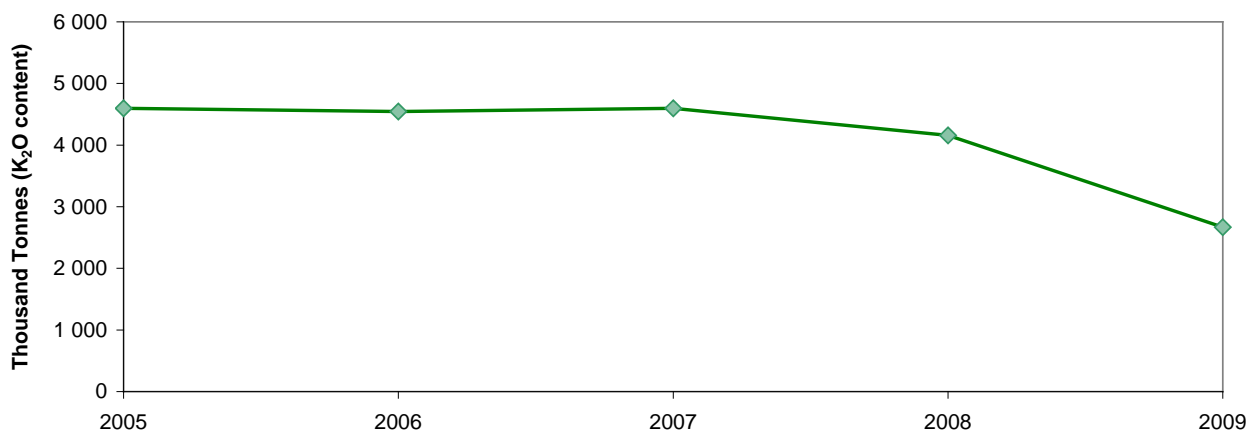


Production of potash

tonnes (K₂O content)

Country	2005	2006	2007	2008	2009
Germany					
Potassic salts	3 663 829	3 624 977	3 636 504	3 280 467	1 825 139
Spain					
Chloride	494 594	493 189	531 739	472 952	481 455
United Kingdom					
Chloride	439 200	427 000	430 000	403 800	360 000
EU33 Total	4 598 000	4 545 000	4 598 000	4 157 000	2 667 000

EU33 Production of potash 2005 - 09



Exports of potash

Country	2005	2006	2007	2008	2009
Austria					
Potassic fertilisers	4 713	8 584	13 595	14 613	13 843
Belgium-Luxembourg					
Fertiliser salts	127	...	...	...	...
Sulphate (a)	* 628 000	* 424 000	* 433 000	* 311 000	* 135 000
Chloride	116 930	102 641	137 689	84 791	58 882
Other potassic fertilisers	9 819	10 560	6 043	7 034	175
Czech Republic					
Potassic fertilisers	3 458	3 143	3 096	3 322	6 843
Denmark					
Chloride	1 052	29 533	127	45	59
Finland					
Sulphate	33 484	(b)* 7 900	49 485	17 181	45 818
Chloride	38 915	65 003	50 342	50 822	26
France					
Sulphate	54 235	32 887	33 446	34 777	18 248
Chloride	6 376	3 185	8 166	11 416	9 858
Other potassic fertilisers	841	221	278	327	414
Germany					
Potassic fertilisers (b) (c)	3 235 651	3 624 977	3 636 504	3 280 467	1 825 139
Greece					
Potassic fertilisers	2 894	3 977	1 217	1 648	1 369
Hungary					
Potassic fertilisers	1 253	2 336	3 474	7 891	9 916
Italy					
Potassic fertilisers	1 270	2 194	5 572	6 345	12 725
Latvia					
Chloride	2 321	117	250	970	0
Lithuania					
Potassic fertilisers	10 463	8 939	5 752	2 846	18 714
Macedonia					
Potassic fertilisers	1 102	3	—	2	—
Netherlands					
Sulphate	382	842	7 918	1 424	4 431
Chloride	163 072	152 423	170 921	147 436	133 012
Other potassic fertilisers	759	1 557	1 162	1 341	2 680
Norway					
Chloride	7 611	2 243	1 285	—	—
Poland					
Potassic fertilisers	932	3 130	2 202	9 222	13 279
Portugal					
Potassic fertilisers	1 056	42	80	240	402
Slovakia					
Potassic fertilisers	26	...	1 407	434	74
Spain					
Sulphate	2 832	1 245	1 795	1 251	2 540
Chloride	514 042	201 242	163 891	360 538	319 549
Other potassic fertilisers	483	257	998	1 895	1 352
Sweden					
Sulphate	54 841	10 191	84 414	53 883	59 252
Turkey					
Potassic fertilisers	313	148	488	3 544	6 438
United Kingdom					
Chloride	* 340 000	* 430 000	* 350 000	* 283 000	* 200 000
Other potassic fertilisers	699	612	399	562	228

Note(s)

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

(b) K₂O content

(c) Including sulphate, chloride and other potassic fertilisers

Potash

Imports of potash

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Fertiliser salts	23 685	23 423	...	...	...
Sulphate	13 377	17 797	13 026	10 432	4 241
Chloride	144 234	133 514	123 747	119 347	28 000
Other potassic fertilisers	2 336	3 199	26 199	25 862	9 139
Belgium-Luxembourg					
Fertiliser salts	17 331	2 628	...	...	...
Sulphate	260 839	2 839	5 073	7 317	18 355
Chloride	1 211 640	576 972	587 275	559 104	293 965
Other potassic fertilisers	17 698	7 693	612	825	2 109
Bulgaria					
Potassic fertilisers	7 794	9 102	4 845	4 633	1 970
Croatia					
Chloride	131 567	149 424	159 288	157 994	10 538
Other potassic fertilisers	2 083	3 594	3 564	2 958	1 091
Czech Republic					
Chloride	97 723	43 238	32 745	28 052	36 125
Other potassic fertilisers	3 783	3 475	4 215	5 025	2 430
Denmark					
Sulphate	2 683	4 778	6 077	1 878	1 019
Chloride	38 706	106 772	34 292	47 885	4 917
Other potassic fertilisers	29 605	13 150	13 742	24 438	11 052
Estonia					
Chloride	14 509	11 173	7 048	8 665	1
Finland					
Chloride	(a) 163 600	(a) 161 400	148 400	120 158	—
France					
Fertiliser salts	1 400	712	...	...	...
Sulphate	70 702	33 195	50 088	53 124	12 477
Chloride	1 492 127	777 056	900 560	837 119	242 713
Other potassic fertilisers	29 488	11 432	16 601	18 484	7 287
Germany					
Sulphate	5 964	5 414	17 108	11 801	13 194
Chloride	75 483	62 917	101 081	124 643	75 154
Other potassic fertilisers	4 065	809	1 344	2 503	633
Greece					
Sulphate	28 334	44 049	37 785	36 642	14 325
Chloride	46 667	36 887	22 518	28 144	20 773
Other potassic fertilisers	4 387	9 682	6 189	8 660	107
Hungary					
Chloride	137 278	133 764	168 692	181 373	38 441
Other potassic fertilisers	3 735	3 180	5 863	4 552	4 372
Ireland, Republic of					
Chloride	113 476	125 803	122 191	97 056	29 932
Other potassic fertilisers	5 747	4 566	1 785	4 347	3 390
Italy					
Sulphate	96 415	91 061	90 992	78 513	31 910
Chloride	334 324	302 115	396 162	346 465	144 086
Other potassic fertilisers	13 203	17 583	15 929	9 882	3 413
Latvia					
Chloride	19 361	9 489	8 875	10 845	—
Other potassic fertilisers	1 982	132	312	111	102
Lithuania					
Sulphate	12 086	10 439	15 637	10 971	2 617
Chloride	123 782	143 499	138 895	107 749	6 631
Other potassic fertilisers	236	6 200	190	487	87
Netherlands					
Sulphate	26 208	24 658	21 211	17 393	28 984
Chloride	445 767	265 838	314 011	307 612	204 377
Other potassic fertilisers	2 486	5 283	6 691	3 899	3 466
Norway					
Sulphate	247 379	266 149	241 918	190 757	123 549
Chloride	306 369	307 422	349 459	353 452	199 385
Other potassic fertilisers	555	710	659	674	509

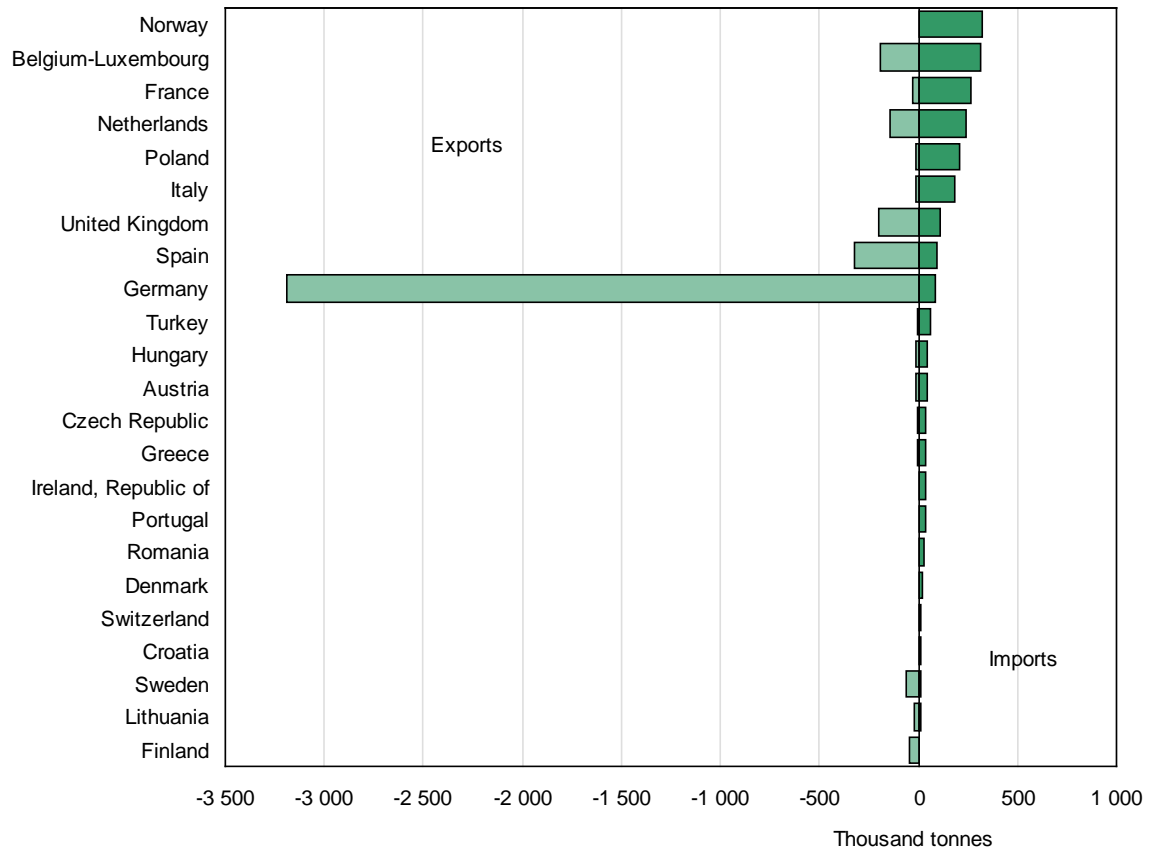
Imports continued

Country	2005	2006	2007	2008	2009
Poland					
Fertiliser salts	621	1 066	...	...	...
Sulphate	21 770	14 517	20 242	19 161	10 919
Chloride	1 041 798	770 674	992 979	815 282	194 900
Other potassic fertilisers	4 726	4 110	4 659	7 143	3 470
Portugal					
Sulphate	3 631	3 227	4 223	1 869	1 574
Chloride	65 682	58 237	51 600	38 200	25 525
Other potassic fertilisers	2 780	2 141	1 629	1 708	5 389
Romania					
Sulphate	757	6 361	4 086	5 133	19 592
Chloride	41 974	35 384	50 558	68 877	5 119
Other potassic fertilisers	563	491	1 058	338	374
Slovakia					
Chloride	28 400	31 791	29 514	28 757	3 931
Other potassic fertilisers	576	1 752	2 375	1 832	294
Slovenia					
Potassic fertilisers	1 704	2 465	1 973	2 166	766
Spain					
Sulphate	47 561	10 412	5 547	40 911	21 022
Chloride	243 017	224 320	199 403	194 656	71 444
Other potassic fertilisers	4 667	86	25	3 548	3 721
Sweden					
Sulphate	4 911	10 191	1 004	2 872	965
Chloride	43 106	44 941	27 470	15 689	4 769
Other potassic fertilisers	1 119	4 109	4 886	4 735	4 211
Switzerland					
Sulphate	3 325	4 215	5 259	4 685	3 967
Chloride	18 971	18 811	19 279	15 158	7 595
Other potassic fertilisers	3 411	2 555	2 504	2 861	1 676
Turkey					
Sulphate	39 198	19 373	57 661	33 427	11 576
Chloride	135 433	78 671	96 038	82 412	50 634
United Kingdom					
Fertiliser salts	9 517	10 696	...	...	...
Sulphate	12 206	14 274	16 166	15 157	15 766
Chloride	198 893	170 942	202 623	165 331	80 842
Other potassic fertilisers	945	1 310	10 813	11 919	10 422

Note(s)

(a) K₂O content

Potash - EU33 trade in 2009



Rare earth elements

- Rare earth elements (REE), which occur chiefly in the minerals bastnaesite and monazite, are a group of 17 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. An increasingly important use of REE, particularly neodymium, is in high-strength permanent magnets for use computer hard disk drives, hybrid cars and wind turbines.
- Production of rare earths is limited to only a few countries of which China is by far the largest producer (97 per cent). There is no EU33 production, thus Europe is entirely import dependent.

Exports of rare earths

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metals	421	333	359	373	244
Cerium compounds	1 980	1 569	2 596	2 702	2 035
Other rare earth compounds	6 449	5 911	9 039	8 508	8 437
Belgium-Luxembourg					
Metals	187	444	253	299	273
Rare earth compounds	413	302	802	408	335
Czech Republic					
Cerium compounds	8	8	6	3	3
Other rare earth compounds	4	5	6	5	0
Denmark					
Metals	0	0	4	2	—
Estonia					
Metals	3	1	1	1	1
Rare earth compounds	2 319	6 819	3 183	2 916	2 679
Finland					
Metals	...	...	104	...	—
Rare earth compounds	2	1	1	103	0
France					
Metals	7	24	11	11	3
Rare earth compounds	2 007	2 185	2 545	1 854	1 244
Ferro-cerium & other pyrophoric alloys	32	85	133	—	0
Germany					
Metals	1	1	8	3	19
Rare earth compounds	123	145	217	188	652
Hungary					
Rare earth compounds	0	...	...	14	—
Ireland, Republic of					
Rare earth compounds	14	73	8	9	7
Italy					
Metals	168	56	177	112	78
Rare earth compounds	13	43	38	153	167
Lithuania					
Cerium compounds	1	3	4	3	8
Netherlands					
Metals	13	16	64	202	* 135
Rare earth compounds	171	157	77	131	* 150
Norway					
Metals	11	59	0	1	105
Rare earth compounds	...	...	1	21	21
Poland					
Metals	...	...	—	5	—
Cerium compounds	0	0	15	8	4
Other rare earth compounds	0	0	33	22	—
Slovenia					
Cerium compounds	...	...	2	1	1
Spain					
Cerium compounds	17	45	63	8	13
Other rare earth compounds	20	18	2	17	5
Ferro-cerium & other pyrophoric alloys	3	1	...	...	...
Switzerland					
Cerium compounds	1	2	2	1	1
Other rare earth compounds	3	7	3	1	26

Rare Earths

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
United Kingdom					
Metals	26	29	143	237	54
Cerium compounds	121	111	37	73	105
Other rare earth compounds	1 189	954	1 089	622	459
Ferro-cerium & other pyrophoric alloys	2	76	80	7	6

Note(s)

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

Imports of rare earths

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metals	374	403	512	561	269
Cerium compounds	3 055	2 009	3 431	3 487	1 985
Other rare earth compounds	2 685	2 618	3 762	3 589	2 471
Belgium-Luxembourg					
Metals	252	443	297	259	323
Cerium compounds	411	280	490	259	421
Other rare earth compounds	139	138	353	142	292
Ferro-cerium & other pyrophoric alloys	5	5	2	3	62
Czech Republic					
Rare earth compounds	198	227	228	155	124
Ferro-cerium & other pyrophoric alloys	3	6	4	5	5
Denmark					
Cerium compounds	...	1	1	11	734
Other rare earth compounds	16	41	30	10	36
Estonia					
Metals	8	10	...	...	—
Rare earth compounds	4 352	6 804	4 721	4 469	4 125
Finland					
Cerium compounds	83	117	92	101	57
Other rare earth compounds	13	21	5	7	9
France					
Metals	322	479	417	447	402
Cerium compounds	7 105	9 723	8 831	9 116	6 112
Other rare earth compounds	585	1 329	1 232	768	874
Ferro-cerium & other pyrophoric alloys	5	3	2	3	26
Germany					
Metals	402	369	410	430	106
Cerium compounds	1 082	975	901	673	448
Other rare earth compounds	6 961	7 024	9 748	10 192	7 755
Ferro-cerium & other pyrophoric alloys	6	3	7	6	2
Greece					
Metals	...	...	1	20	68
Rare earth compounds	6	4	3	1	—
Ferro-cerium & other pyrophoric alloys	1	0	22	0	—
Hungary					
Rare earth compounds	131	146	242	116	60
Iceland					
Metals	...	...	—	85	87
Ferro-cerium & other pyrophoric alloys	156	98	112	86	88
Ireland, Republic of					
Rare earth compounds	32	7	23	21	67
Italy					
Metals	38	58	149	144	87
Cerium compounds	651	540	694	710	414
Other rare earth compounds	336	313	452	431	258
Ferro-cerium & other pyrophoric alloys	17	1	2	2	5
Lithuania					
Rare earth compounds	34	52	3	8	3
Malta					
Metals	...	...	...	...	12

Rare Earths

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Netherlands					
Metals	8	135	100	261	* 200
Cerium compounds	164	290	473	278	71
Other rare earth compounds	2 140	2 781	3 868	2 766	* 1 100
Ferro-cerium & other pyrophoric alloys	3	3	3	4	6
Norway					
Metals	544	686	738	341	24
Poland					
Metals	6	7	1	—	2
Cerium compounds	79	109	85	148	43
Other rare earth compounds	39	74	63	58	16
Portugal					
Metals	4	5	0	0	...
Rare earth compounds	46	46	115	20	12
Romania					
Rare earth compounds	22	8	9	6	5
Slovakia					
Rare earth compounds	10	8	8	5	8
Slovenia					
Metals	139	96	139	88	55
Rare earth compounds	4	27	4	3	2
Spain					
Metals	20	84	95	274	108
Cerium compounds	476	572	580	444	443
Other rare earth compounds	353	260	255	270	140
Ferro-cerium & other pyrophoric alloys	8	29	40	15	19
Sweden					
Metals	41	37	74	46	28
Rare earth compounds	26	20	56	68	54
Switzerland					
Rare earth compounds	34	38	34	34	30
Ferro-cerium & other pyrophoric alloys	...	...	...	6	44
Turkey					
Metals	0	0	8	9	9
Rare earth compounds	155	117	183	360	204
Ferro-cerium & other pyrophoric alloys	...	...	...	12	10
United Kingdom					
Metals	166	88	88	133	99
Cerium compounds	2 324	1 615	2 167	2 067	612
Other rare earth compounds	775	600	664	251	103
Ferro-cerium & other pyrophoric alloys	19	60	77	57	148

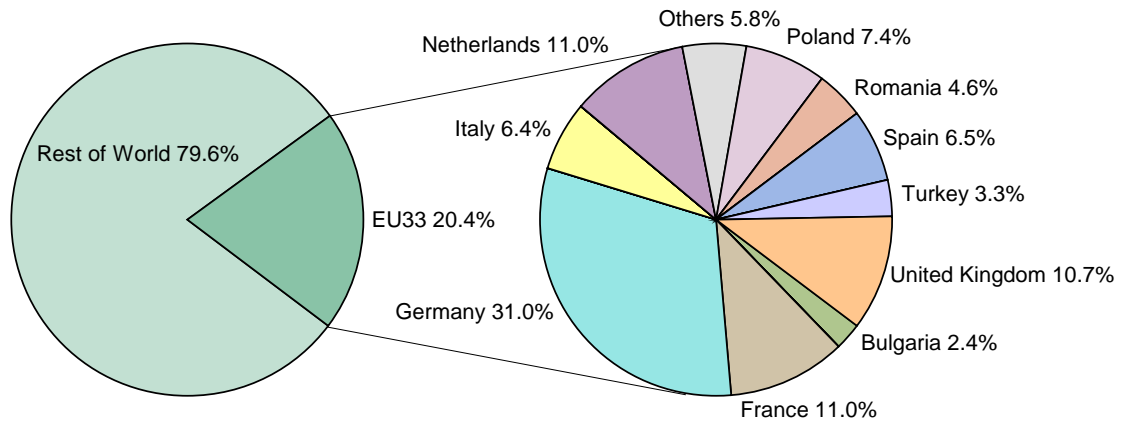
Note(s)

(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 2009 the largest producer was China (22 per cent). In the EU33 the largest producer was Germany (31 per cent of total EU33 production).

EU33 Production of salt 2009



Production of salt

Country	2005	2006	2007	2008	2009
tonnes					
Austria					
Rock salt	1 497	1 336	1 172	503	—
Salt in brine	771 455	764 103	735 724	866 674	1 035 044
Bulgaria	1 900 000	2 000 000	2 000 000	2 100 000	1 300 000
Croatia	36 970	29 589	32 536	54 937	57 186
Denmark	* 600 000	* 600 000	* 600 000	* 600 000	* 600 000
France					
Rock salt	494 000	...	...	...	...
Brine salt	1 468 000	...	...	...	...
Salt in brine	4 750 780	(a) 9 371 000	(a) 6 139 840	(a)* 6 000 000	(a)* 6 000 000
Sea salt	1 026 000	...	...	...	...
Germany					
Rock salt	8 258 000	9 280 000	4 826 000	5 545 438	7 709 844
Brine salt	1 006 000	1 001 000	1 010 000	989 208	1 862 630
Salt in brine	7 449 000	7 189 000	7 558 000	7 306 745	* 7 300 000
Greece	198 024	* 200 000	212 000	* 220 000	* 189 000
Italy					
Rock salt & brine salt	3 475 734	2 823 960	2 214 133	2 334 315	3 471 206
Netherlands	6 155 000	6 056 000	6 177 000	6 200 000	5 967 000
Poland					
Rock salt	1 123 219	1 129 875	591 240	618 111	988 545
Brine salt	2 889 941	2 899 076	2 930 726	2 783 198	2 533 413
Other salt	118 703	808 247	785 694	706 618	484 486
Portugal					
Rock salt	597 945	586 190	590 588	606 545	576 723
Sea salt	92 495	76 858	64 048	69 249	72 325
Romania	2 442 640	2 621 129	2 475 349	2 526 774	* 2 500 000
Slovakia	105 100	122 500	117 000	109 510	41 000
Slovenia	803	1 624	3 029	535	2 924
Spain					
Rock salt	2 909 526	2 809 046	2 709 545	2 909 907	2 254 543
Sea salt	1 368 960	1 506 343	1 332 360	1 290 672	1 207 544
Other salt	121 461	115 826	102 524	102 149	91 793

Production continued

tonnes

Country	2005	2006	2007	2008	2009
Switzerland	539 000	525 000	353 000	368 000	554 000
Turkey					
Rock salt	512	...	...	...	...
Sea salt	529 235	* 500 000	* 500 000	* 500 000	* 500 000
Other salt	1 196 486	* 1 200 000	1 385 822	1 367 981	* 1 300 000
United Kingdom					
Rock salt	* 2 000 000	* 2 000 000	* 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 (b)	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000
EU33 Total	56 700 000	59 300 000	50 500 000	51 100 000	53 400 000

Note(s)

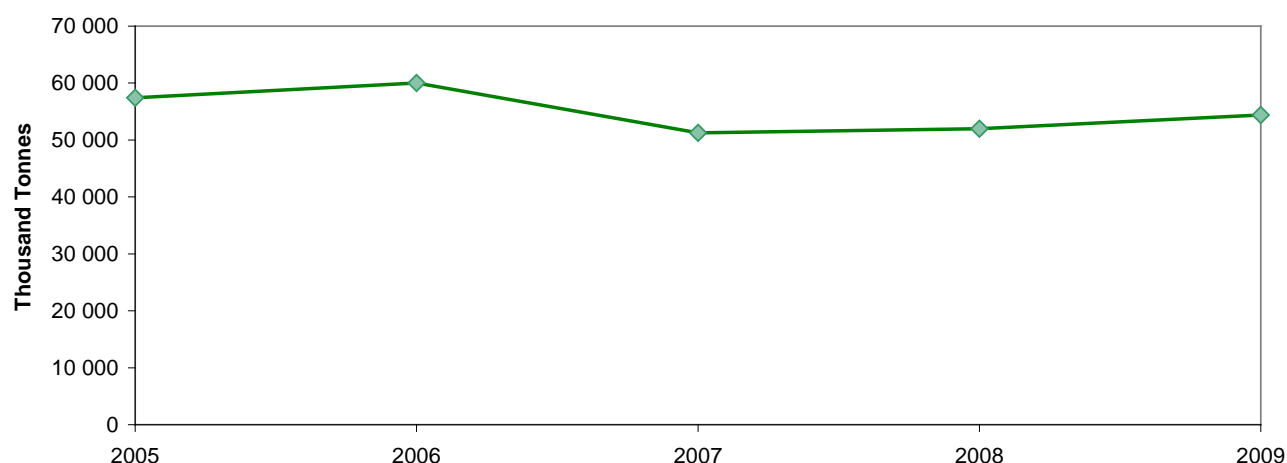
(1) This table does not include production of refined salt

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

(a) Salt; all forms

(b) Used for purposes other than salt-making

EU33 Production of salt 2005 - 09



Exports of salt

tonnes

Country	2005	2006	2007	2008	2009
Austria	199 133	202 465	235 775	388 681	491 981
Belgium-Luxembourg	121 103	94 196	55 208	61 231	125 475
Bulgaria	10 090	16 020	13 943	8 239	2 689
Croatia	5 688	9 759	3 986	4 530	9 995
Cyprus	635	521	769	956	2 910
Czech Republic	13 833	30 648	18 760	14 116	31 068
Denmark	355 887	115 980	261 895	265 036	333 383
Estonia	149	572	429	121	277
Finland	384	531	424	336	336
France	407 255	254 487	363 438	231 953	277 617
Germany	3 372 522	3 943 083	2 787 088	2 782 861	2 744 985
Greece	50 390	62 896	37 232	48 908	47 406
Hungary	49 578	45 215	1 459	1 388	3 434
Iceland	2 106	2 647	5 934	3 718	2 115
Ireland, Republic of	1 521	2 492	3 867	8 783	735
Italy	317 124	361 602	212 223	322 221	558 441
Latvia	10 205	14 485	14 282	13 741	15 919
Lithuania	5 895	7 150	6 761	6 063	5 437
Macedonia	2 677	4 508	5 091	3 255	3 616
Netherlands	3 749 442	4 126 810	4 055 898	3 878 601	* 3 412 200

Salt

Exports continued

tonnes

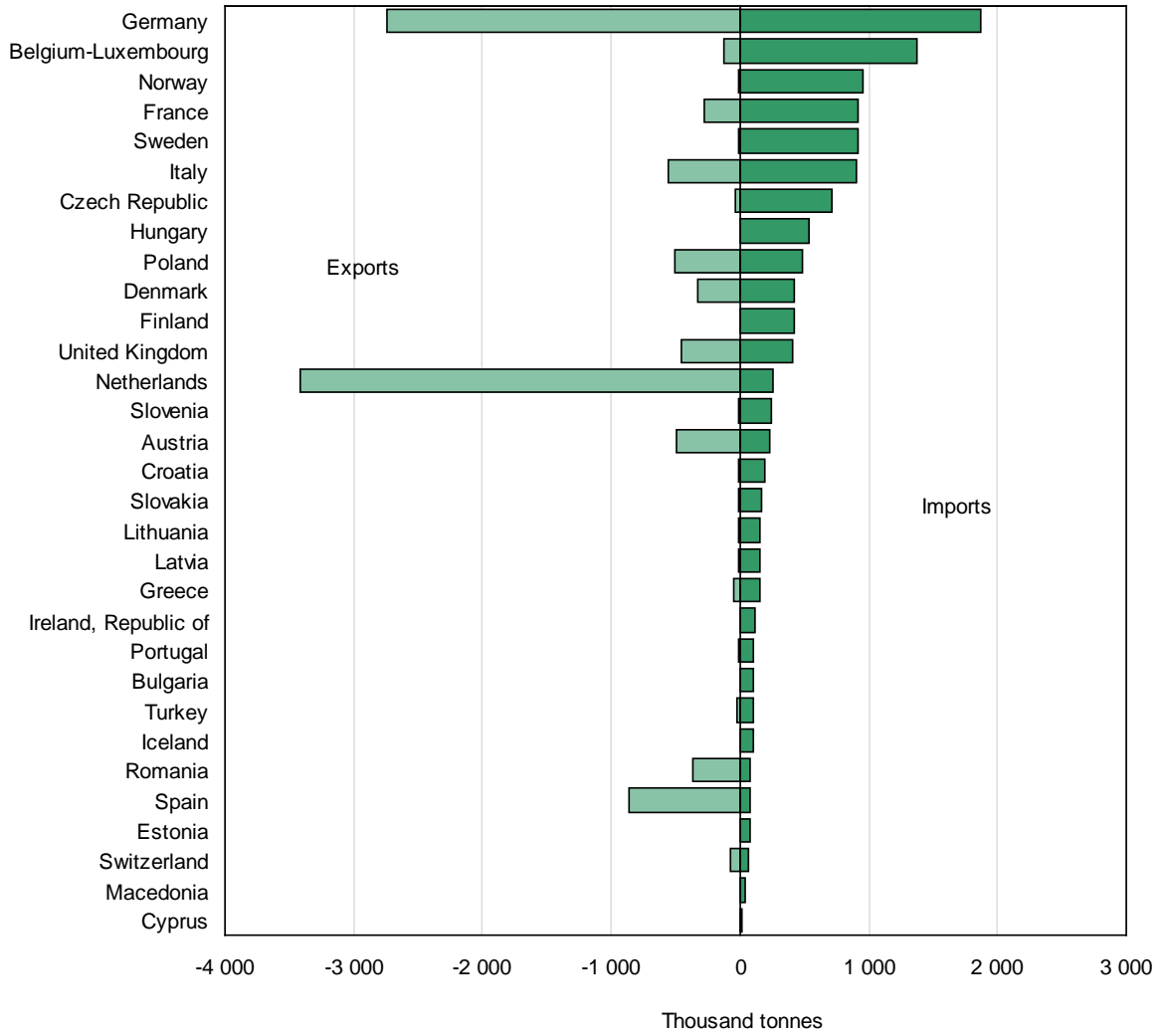
Country	2005	2006	2007	2008	2009
Norway	6 679	9 040	4 178	4 833	14 998
Poland	495 481	498 345	345 335	361 691	503 899
Portugal	6 130	11 872	25 341	13 412	15 662
Romania	598 154	503 629	506 641	486 040	372 501
Slovakia	53 451	51 566	51 517	62 133	4 606
Slovenia	8 034	20 702	18 280	20 590	15 671
Spain	750 180	743 390	463 791	646 288	862 994
Sweden	8 783	9 357	12 601	10 444	10 025
Switzerland	30 461	62 318	55 916	37 772	68 947
Turkey	22 167	17 095	11 164	27 393	26 223
United Kingdom	538 796	557 311	514 868	873 708	449 303

Imports of salt

tonnes

Country	2005	2006	2007	2008	2009
Austria	210 736	429 515	143 538	105 335	230 979
Belgium-Luxembourg	1 315 385	2 275 674	1 230 983	1 220 421	1 371 028
Bulgaria	165 727	181 801	71 848	103 007	102 272
Croatia	226 931	193 911	104 066	176 408	197 644
Cyprus	13 795	13 647	12 208	13 445	16 822
Czech Republic	891 667	1 151 331	567 960	610 149	711 374
Denmark	436 794	520 735	230 787	213 931	421 109
Estonia	58 269	78 483	72 445	72 149	73 931
Finland	438 346	401 961	409 761	397 033	417 495
France	1 110 898	1 024 789	592 976	578 882	918 448
Germany	2 558 898	2 591 036	2 476 738	2 319 273	1 867 023
Greece	162 669	277 940	177 719	134 557	149 094
Hungary	592 522	662 455	514 119	510 287	535 928
Iceland	108 821	96 212	100 169	113 142	98 207
Ireland, Republic of	83 746	96 164	89 236	105 636	114 659
Italy	773 507	863 836	611 435	572 965	902 241
Latvia	139 662	149 696	123 316	144 424	151 529
Lithuania	198 994	197 262	171 915	166 505	159 534
Macedonia	39 178	40 184	35 657	37 575	39 232
Malta	5 453	1 629	3 590	3 794	1 364
Netherlands	630 738	1 150 949	193 457	167 508	* 253 000
Norway	910 846	1 026 541	988 001	1 075 905	959 630
Poland	376 829	582 080	313 297	356 929	483 243
Portugal	70 266	110 581	169 480	94 501	108 161
Romania	131 683	113 585	111 681	92 815	82 569
Slovakia	320 413	299 087	182 234	189 268	168 211
Slovenia	207 314	232 017	148 352	190 017	239 191
Spain	111 449	37 632	33 691	97 348	81 729
Sweden	738 931	1 054 982	744 328	875 294	910 606
Switzerland	48 114	19 300	8 913	8 988	70 386
Turkey	320 147	285 694	35 382	257 146	99 400
United Kingdom	287 623	246 879	237 772	237 288	410 434

Salt - EU33 trade in 2009



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 2009, known production was restricted to only six 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 EU33 is France.

Production of sillimanite minerals

tonnes

Country	2005	2006	2007	2008	2009
France					
Andalusite	* 65 000	* 65 000	* 65 000	* 65 000	* 65 000

Note(s)

- A number of other countries produce sillimanite minerals but details of output are not reported
- 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	2005	2006	2007	2008	2009
Belgium-Luxembourg	77 463	48 825	47 141	62 423	39 809
France	55 052	59 002	66 776	66 242	38 494
Germany	12 191	13 257	16 143	18 231	7 965
Hungary					
Mullite	6 920	6 870	(a)* 7 500	(a)* 7 100	(a)* 3 300
Netherlands	11 444	7 679	9 689	10 848	5 602
United Kingdom	2 417	1 925	2 430	2 076	1 414

Note(s)

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

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

Imports of sillimanite minerals

tonnes

Country	2005	2006	2007	2008	2009
Austria	2 194	2 100	3 160	2 639	1 353
Belgium-Luxembourg	81 538	50 726	52 899	68 986	40 981
Czech Republic	3 733	6 765	5 601	6 686	4 717
Denmark	2 909	3 023	3 377	2 482	2 598
France	3 080	4 813	6 026	6 255	4 536
Germany	58 047	80 183	109 961	79 668	39 511
Greece	25	62	734	2 662	505
Hungary	4 519	3 001	3 428	4 004	2 541
Italy	27 476	26 304	24 807	30 616	45 172
Netherlands	20 001	24 195	17 488	24 457	4 189
Norway	2 400	2 288	3 404	2 702	4 359
Poland					
Sillimanite minerals	9 975	21 196	23 321	16 975	7 852
Mullite	2 207	2 012	4 956	3 728	1 040
Portugal	160	192	293	646	573
Slovakia	4 312	2 069	3 299	1 919	1 812
Spain	27 308	22 102	27 792	34 909	21 648
Sweden	5 086	5 568	6 381	5 212	2 395

Sillimanite

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Switzerland	413	463	1 035	1 128	527
Turkey	5 504	2 939	6 987	9 535	8 526
United Kingdom					
Sillimanite minerals	39 650	10 268	10 239	11 920	7 763
Mullite	10 430	7 468	12 036	6 488	5 255

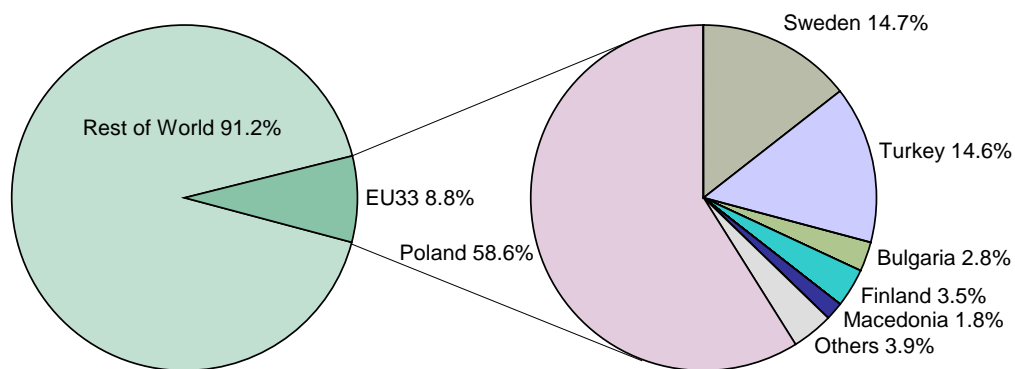
Note(s)

(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 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 2009 the world's largest producers were Peru, Mexico and China, together accounting for 46 per cent of world production. The largest EU33 producer was Poland (58.6 per cent of EU33 production and five per cent of world production).

EU33 Mine production of silver 2009

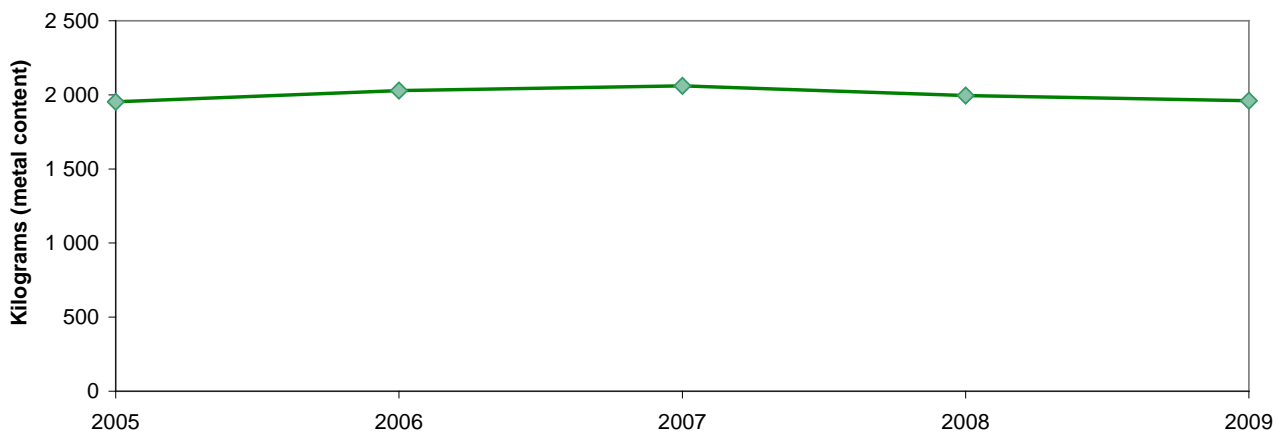


Mine production of silver

kilograms (metal content)

Country	2005	2006	2007	2008	2009
Bulgaria	* 55 000	* 65 000	* 55 000	* 55 000	* 55 000
Finland	47 462	50 843	44 895	69 906	69 600
Greece	2 300	25 500	38 300	35 500	30 177
Ireland, Republic of	10 500	12 900	9 650	7 172	5 267
Italy	100	—	—	—	—
Macedonia	—	* 10 000	* 30 000	* 40 000	* 35 000
Poland	1 262 400	1 265 100	1 199 500	1 161 000	1 150 000
Portugal	23 786	20 078	26 514	28 825	22 472
Romania	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Slovakia	65	74	50	198	201
Spain	5 227	2 369	—	—	—
Sweden	309 933	292 255	323 171	293 068	288 590
Turkey	219 000	* 266 000	* 315 000	* 286 000	* 286 000
United Kingdom	—	—	212	398	505
EU33 Total	1 954 000	2 028 000	2 060 000	1 995 000	1 961 000

EU33 Mine production of silver 2005 - 09



Exports of silver

kilograms

Country	2005	2006	2007	2008	2009
Austria					
Metal	62 600	120 400	115 100	95 000	98 600
Belgium-Luxembourg					
Ores & concentrates	7 200	8 000	47 600	33 100	6 200
Metal	12 600	45 200	31 200	42 000	69 900
Bulgaria					
Metal	...	...	49 468	36 516	58 565
Croatia					
Metal	352	...	...	...	...
Czech Republic					
Metal	29 337	98 354	102 968	117 325	77 000
Denmark					
Metal	14 748	24 299	43 775	18 782	37 200
Estonia					
Metal	93	26	9	13	955
Finland					
Ores & concentrates	416 650	262 669	700	38	—
Metal	6 764	6 041	3 400	3 400	1 680
France					
Ores & concentrates	...	...	26 500	51 100	1 597 157
Metal	252 300	228 673	208 832	215 148	169 806
Germany					
Metal	2 631 200	2 995 900	2 884 200	3 012 400	2 169 994
Greece					
Metal	152	3 325	8 300	7 400	79 400
Hungary					
Metal	1 033	395	527	139	1 300
Ireland, Republic of					
Ores & concentrates	19	...	2 560	—	—
Italy					
Metal	564 308	516 281	547 042	519 148	383 782
Lithuania					
Metal	245	300	...	600	200
Macedonia					
Metal	500	...	71	26	10
Netherlands					
Ores & concentrates	...	26 860	...	18 000	...
Metal	93 668	151 077	144 024	208 300	196 180
Norway					
Metal	66 139	52 952	45 461	59 381	58 979
Poland					
Metal	318 800	519 800	1 148 300	1 121 900	1 265 200
Portugal					
Ores & concentrates	...	...	4 000	13 500	11 500
Metal	1 673	411	218	7 876	580

Silver

Exports continued

kilograms

Country	2005	2006	2007	2008	2009
Slovakia					
Metal	1 872	3 430	35 036	6 061	2 700
Slovenia					
Metal	6 382	3 100	5 200	8 800	1 600
Spain					
Ores & concentrates	...	...	1 608	—	30
Metal	11 665	7 915	13 637	379 675	233 084
Sweden					
Ores & concentrates	...	...	59 400	...	—
Metal	421 000	368 000	364 500	521 200	476 300
Switzerland					
Metal	1 044 080	930 397	1 201 402	1 444 198	2 059 830
Turkey					
Metal	27 323	8 932	10 700	20 897	170 009
United Kingdom					
Ores & concentrates	13 387	...	1 627	192	1 338
Metal	2 289 098	1 069 383	2 317 951	6 071 009	943 522

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	2005	2006	2007	2008	2009
Austria					
Metal	127 900	168 300	151 600	441 900	431 500
Belgium-Luxembourg					
Ores & concentrates	625	536 600	195 900	254 200	1 567 600
Metal	175 200	258 700	443 200	354 200	233 900
Bulgaria					
Metal	...	...	10 521	2 189	871
Croatia					
Metal	3 837	5 043	3 684	3 293	2 353
Cyprus					
Metal	5 675	2 866	3 746	2 863	1 993
Czech Republic					
Ores & concentrates	...	...	...	...	5 700
Metal	103 373	602 527	647 818	1 557 076	163 316
Denmark					
Metal	18 173	26 104	62 049	51 992	1 873 817
Estonia					
Metal	133 123	10 100	3 100	5 800	2 900
Finland					
Metal	70 623	64 504	55 400	44 800	498 859
France					
Ores & concentrates	1 955	16 300	39 800	21 300	4 279
Metal	731 182	734 679	643 280	544 821	435 001
Germany					
Ores & concentrates	...	1 323 500	859 400	6 024 500	2 581 290
Metal	1 861 800	2 227 600	2 565 300	2 668 900	1 784 960
Greece					
Metal	1 059 816	46 241	1 039 000	276 100	31 300
Hungary					
Metal	15 711	206 137	14 581	8 354	128 985
Iceland					
Metal	544	763	1 388	858	1 096
Ireland, Republic of					
Ores & concentrates	...	18 974	1 270	385	41
Metal	2 611	5 147	1 045	29 530	5 320
Italy					
Ores & concentrates	2 378	67 952	1 002	—	15
Metal	1 635 765	1 583 508	1 445 303	1 167 457	881 205

Imports continued

Country	2005	2006	2007	2008	2009
Latvia					
Metal	189 912	16	1 450	1 174	556
Lithuania					
Metal	3 943	4 500	5 200	6 900	5 800
Macedonia					
Metal	3 813	3 901	3 612	3 807	2 229
Malta					
Metal	188	1 800	600	5 300	30 400
Netherlands					
Metal	139 625	263 049	229 637	265 925	218 279
Norway					
Ores & concentrates	...	7 923 075	—	...	...
Metal	90 331	64 511	62 077	67 398	47 040
Poland					
Metal	40 100	28 800	77 000	95 200	122 900
Portugal					
Metal	54 309	36 450	30 616	22 678	18 602
Romania					
Metal (a)	* 17 700	* 18 600	* 7 700	* 9 400	* 8 800
Slovakia					
Metal	57 439	6 400	12 200	8 200	9 000
Slovenia					
Metal	42 380	19 700	27 800	45 000	17 800
Spain					
Ores & concentrates	59 653	56 421	58 344	75 633	66 088
Metal	106 596	134 673	126 668	1 547 747	754 262
Sweden					
Ores & concentrates	...	...	21 000	...	2 330 100
Metal	151 000	137 000	162 900	122 200	85 300
Switzerland					
Ores & concentrates (a)	* 309 400	* 792 000	* 39 800	* 9 600	* 100 900
Metal	1 484 207	1 306 866	849 037	1 520 531	2 136 092
Turkey					
Metal	409 844	108 588	996 239	154 639	57 700
United Kingdom					
Ores & concentrates	12 640	249	8 283	8 332	1 106
Metal	1 485 290	7 316 639	3 635 563	3 943 638	6 649 190
Waste & scrap	2 282 562	2 741 705	3 049 452	4 222 712	3 311 165

Note(s)

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

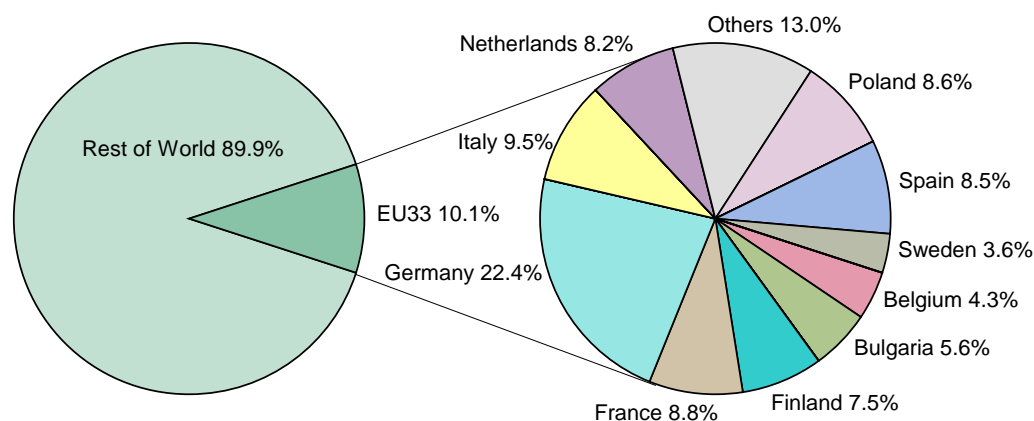
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

(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 of recovered sulphur in 2009 were the USA (15 per cent of world total) and Canada (12 per cent). The largest world producer of pyrites and sulphur ore was China. In the EU33 the largest producer was Germany (22.4 per cent of EU33 production).

EU33 Production of sulphur and pyrites 2009



Production of sulphur and pyrites

tonnes (sulphur content)

Country	2005	2006	2007	2008	2009
Austria					
Recovered (a)	54 377	50 097	50 501	48 024	48 624
Belgium					
Recovered (b)(a)	376 000	391 000	395 000	394 000	322 000
Bulgaria					
Recovered (b)	312 000	340 000	359 000	352 000	379 000
Recovered (a)	30 000	35 000	35 000	30 000	35 000
Croatia					
Recovered (a)	9 000	7 000	9 000	7 000	11 000
Czech Republic					
Recovered (a)	65 000	65 000	65 000	61 000	55 000
Denmark					
Recovered (a)	4 223	4 142	3 896	3 467	4 200
Finland					
Pyrites	184 400	199 700	194 400	226 000	153 600
Recovered (b)	304 751	325 793	* 326 000	331 000	273 600
Recovered (a)	70 000	70 000	125 000	117 000	127 000
France					
Recovered (a)	622 345	616 234	605 820	* 590 000	* 590 000
Recovered (c)	127 000	75 000	62 000	64 000	65 000
Germany					
Recovered (a)	1 627 900	1 706 200	1 650 100	1 578 000	1 624 000
Recovered (c)	42 900	42 500	35 900	39 000	...
Greece					
Recovered (a)	162 000	162 000	165 000	120 000	142 000
Hungary					
Recovered (a)	65 000	50 000	65 000	55 000	50 000
Italy					
Recovered (b)	92 000	87 000	84 000	82 000	79 000
Recovered (a)	650 000	680 000	650 000	645 000	625 000
Lithuania					
Recovered (a)	74 276	61 135	42 618	73 870	69 722

Production of sulphur and pyrites

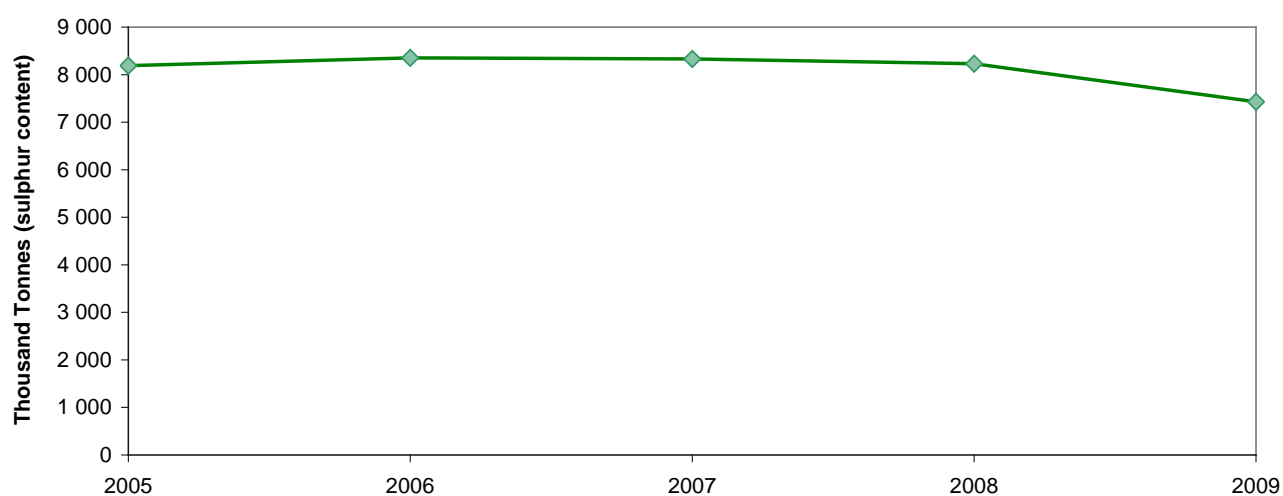
tonnes (sulphur content)

Country	2005	2006	2007	2008	2009
Netherlands					
Recovered (b)	141 000	141 000	116 000	108 000	98 000
Recovered (a)	440 000	495 000	505 000	515 000	510 000
Norway					
Recovered (b)	* 110 000	* 110 000	* 95 000	* 95 000	* 90 000
Recovered (a)	19 000	20 000	18 000	28 000	25 000
Poland					
Frasch	801 799	800 200	833 583	762 119	262 769
Recovered (b)	289 000	308 000	* 304 000	* 305 000	* 300 000
Recovered (a)	186 600	203 100	211 900	215 000	79 004
Portugal					
Recovered	30 000	38 000	27 000	22 000	23 000
Romania					
Recovered	79 000	60 000	64 000	61 000	74 000
Slovakia					
Recovered (b)	5 000	5 000	5 000	5 000	5 000
Recovered (a)	65 000	65 000	78 000	75 000	71 000
Spain					
Recovered (b)	541 000	547 000	543 000	551 000	533 000
Recovered (a)	* 115 000	* 100 000	* 100 000	* 100 000	* 100 000
Sweden					
Recovered (b)	180 000	180 000	177 000	199 600	186 100
Recovered (a)	59 839	68 391	66 569	84 456	83 646
Turkey					
Pyrites	55 000	59 000	61 000	79 000	79 000
Recovered (a) (c)	76 000	73 000	73 000	73 000	73 000
United Kingdom					
Recovered (a)	124 000	115 000	130 000	135 000	145 000
EU33 Total					
Pyrites	239 000	259 000	255 000	305 000	233 000
Frasch	802 000	800 000	834 000	762 000	263 000
Recovered	7 149 000	7 297 000	7 242 000	7 162 000	6 935 000

Note(s)

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

EU33 Production of sulphur and pyrites 2005 - 09



Exports of sulphur and pyrites

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Pyrites	2 641	2 881	2 645	2 672	1 740
Sulphur	141	225	3 006	3 292	472
Sulphur, sublimed & precipitated	9 245	4 881	492	3 906	7 423
Belgium-Luxembourg					
Sulphur	47 927	38 494	18 393	73 317	74 240
Sulphur, sublimed & precipitated	290	465	531	368	345
Bulgaria					
Sulphur	25 019	31 737	33 039	28 993	20 840
Croatia					
Sulphur	8 028	6 606	8 614	7 604	8 664
Czech Republic					
Sulphur	9 294	11 718	5 579	16 670	20 153
Sulphur, sublimed & precipitated	503	113	114	658	86
Finland					
Pyrites (a)	* 100 000	* 73 000	* 90 000	* 386 000	* 88 000
Sulphur	3 135	3 674	3 513	2 521	35 701
France					
Sulphur	361 594	294 003	59 934	246 005	313 229
Sulphur, sublimed & precipitated	642	619	680	2 843	445
Germany					
Pyrites	240	486	741	485	320
Sulphur	898 820	796 341	828 544	654 808	681 563
Greece					
Pyrites	4 306	16 495	73 606	63 893	24 429
Sulphur	138	43 773	52 668	16 345	4 044
Hungary					
Sulphur	36 471	34 850	43 178	43 649	39 638
Italy					
Pyrites	4 763	8 646	8 024	10 071	6 005
Sulphur	225 403	290 353	263 362	219 095	256 614
Sulphur, sublimed & precipitated	2 159	36 881	39 061	4 693	21 430
Lithuania					
Sulphur	3 851	1	7	1 517	14 038
Netherlands					
Pyrites	82 502	82 883	102 300	132 802	10 039
Sulphur	248 680	436 669	460 352	850 183	36 898
Norway					
Sulphur	1	20	3 325	—	—
Poland					
Sulphur	575 796	478 736	555 603	446 202	152 484
Sulphur, sublimed & precipitated	17 364	18 426	26 376	27 041	29 540
Portugal					
Sulphur	28 122	9 747	15 410	7 539	5 737
Sulphur, sublimed & precipitated	80	500	1	136	15
Romania					
Pyrites	42	73	0	994	6 315
Sulphur	54 917	43 255	45 579	59 030	49 052
Slovakia					
Sulphur, sublimed & precipitated	60 776	63 019	75 817	71 373	72 613
Spain					
Sulphur	45 690	76 771	77 220	116 213	198 585
Sweden					
Sulphur	16 883	12 071	5 168	5 525	3 018
Sulphur, sublimed & precipitated	239	5 719	10 959	13 128	12 242
Turkey					
Sulphur	638	152	7 091	21 289	6 495
Sulphur, sublimed & precipitated	127	170	15 376	17 259	14 769
United Kingdom					
Sulphur, crude	105	113	8 207	13 182	2 545
Sulphur, refined	326	643	15 268	27 872	38 723
Sulphur, sublimed & precipitated	1 458	1 312	624	1 144	1 902

Note(s)

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

Imports of sulphur and pyrites

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Pyrites	3 251	3 537	3 809	3 754	1 614
Sulphur	60 054	70 350	84 659	89 038	68 881
Sulphur, sublimed & precipitated	9 589	10 850	5 556	17 842	14 961
Belgium-Luxembourg					
Sulphur, crude	167 624	...	...	265 363	...
Sulphur, refined	322 649	(a) 574 515	(a) 506 662	351 577	(a) 463 971
Sulphur, sublimed & precipitated	127	156	311	1 852	750
Bulgaria					
Sulphur	1 076	767	1 039	487	162
Croatia					
Pyrites	101	122	75	32	124
Sulphur	70 897	86 431	71 965	98 785	10 349
Sulphur, sublimed & precipitated	1 923	3 492	2 425	4	51
Cyprus					
Sulphur	1 356	893	995	895	1 011
Czech Republic					
Pyrites	134	223	281	1 576	299
Sulphur	16 983	40 147	55 196	43 473	20 986
Sulphur, sublimed & precipitated	89 595	70 555	57 410	65 242	71 033
Denmark					
Sulphur	7 066	2 335	204	2 082	4 447
Finland					
Sulphur	310	11 925	415	9 073	1 673
France					
Pyrites	4 521	2 533	160	173	159
Sulphur	82 326	72 785	56 072	50 092	55 212
Sulphur, sublimed & precipitated	5 809	2 439	797	5 861	403
Germany					
Pyrites	62 686	76 343	92 569	109 955	52 641
Sulphur	46 127	31 267	51 785	53 602	38 246
Sulphur, sublimed & precipitated	4 389	1 363	2 007	2 964	2 856
Greece					
Pyrites	...	31 906	94 621	40 754	3
Sulphur	68 765	3 933	35 625	42 733	26 673
Hungary					
Sulphur (b)	* 1 400	* 3 400	* 1 200	* 1 400	* 1 200
Sulphur, sublimed & precipitated	362	326	174	586	186
Ireland, Republic of					
Sulphur, sublimed & precipitated	2 327	2 486	887	305	74
Italy					
Pyrites	15 548	17 741	14 879	20 984	228
Sulphur	13 647	11 691	16 271	48 618	13 305
Sulphur, sublimed & precipitated	328	375	414	2 711	3 617
Latvia					
Sulphur	6	7	8	9	12 488
Lithuania					
Sulphur	306 635	320 658	317 678	293 365	319 353
Sulphur, sublimed & precipitated	560	607	0	404	18
Netherlands					
Pyrites	8 896	95	80	145 627	2 119
Sulphur	37 083	23 928	38 189	55 173	11 430
Sulphur, sublimed & precipitated	37 484	—	...	0	2
Norway					
Pyrites	26 940	...	...	77	...
Sulphur	16 413	11 983	5 224	4 690	3 102
Sulphur, sublimed & precipitated	240	5 571	10 790	12 932	12 127
Poland					
Pyrites	1 013	5 065	1 582	5 768	813
Sulphur	78 274	83 432	74 805	104 300	35 350
Sulphur, sublimed & precipitated	3	52	10	105	978
Portugal					
Sulphur	5 878	4 485	3 233	2 852	3 366
Romania					
Pyrites	...	...	3	1 072	1
Sulphur	964	1 413	1 959	2 390	1 884
Sulphur, sublimed & precipitated	113	112	2	180	1 254

Sulphur and Pyrites

Imports continued

tonnes

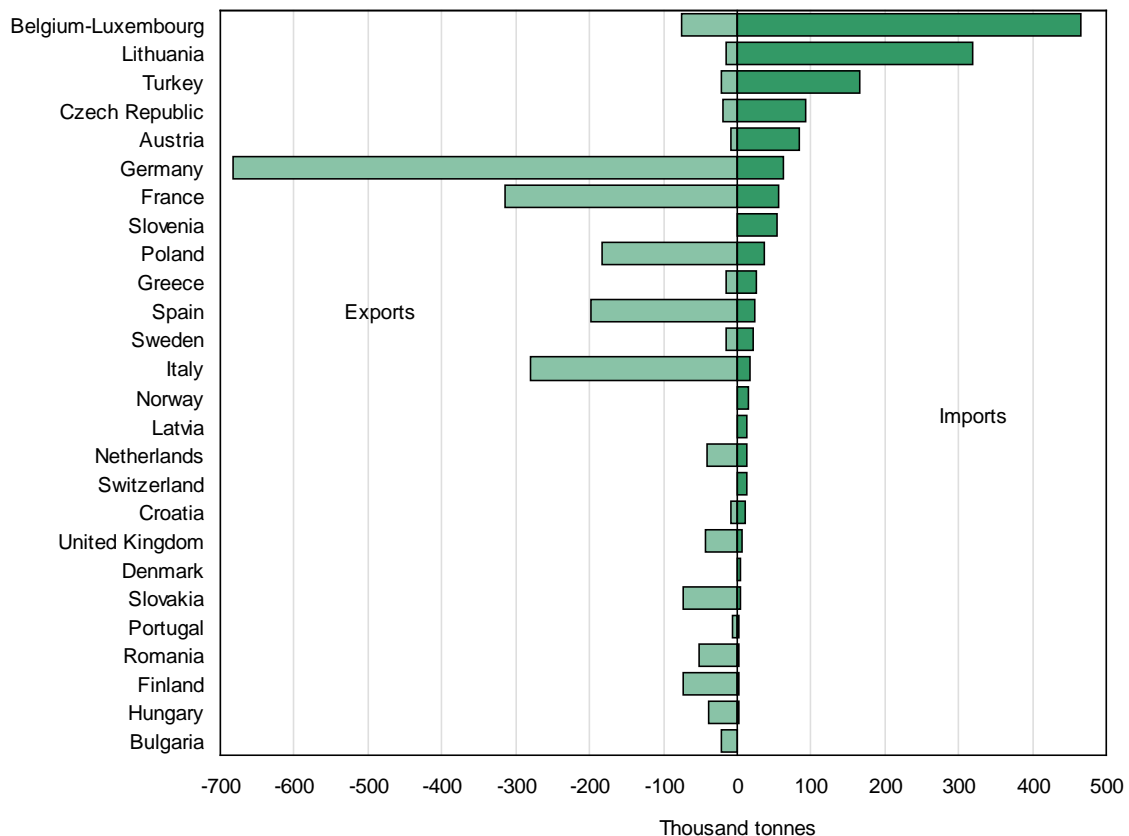
Country	2005	2006	2007	2008	2009
Slovakia					
Sulphur	3 669	3 454	4 339	4 553	2 462
Sulphur, sublimed & precipitated	689	266	753	1 518	1 046
Slovenia					
Pyrites	400	463	612	683	353
Sulphur	58 287	58 159	53 434	56 381	53 615
Sulphur, sublimed & precipitated	88	135	1	7	1
Spain					
Pyrites	1 542	1 478	2 585	1 903	958
Sulphur	188 096	133 552	152 566	153 575	24 015
Sulphur, sublimed & precipitated	243	296	265	372	187
Sweden					
Pyrites	319	557	750	691	544
Sulphur	71 337	82 246	94 449	78 784	21 772
Sulphur, sublimed & precipitated	16	23	4	112	143
Switzerland					
Pyrites	76	69	51	135	68
Sulphur	24 977	19 369	20 982	17 425	12 086
Turkey					
Pyrites	94	231	252	224	67
Sulphur	139 197	162 187	168 952	128 685	164 034
Sulphur, sublimed & precipitated	111	111	194	321	1 315
United Kingdom					
Pyrites	26	19	105	704	104
Sulphur, crude	24 222	11 608	5 101	64	74
Sulphur, refined	7 263	7 334	8 577	9 574	6 211
Sulphur, sublimed & precipitated	577	1 297	1 073	1 186	473

Note(s)

(a) Including crude

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

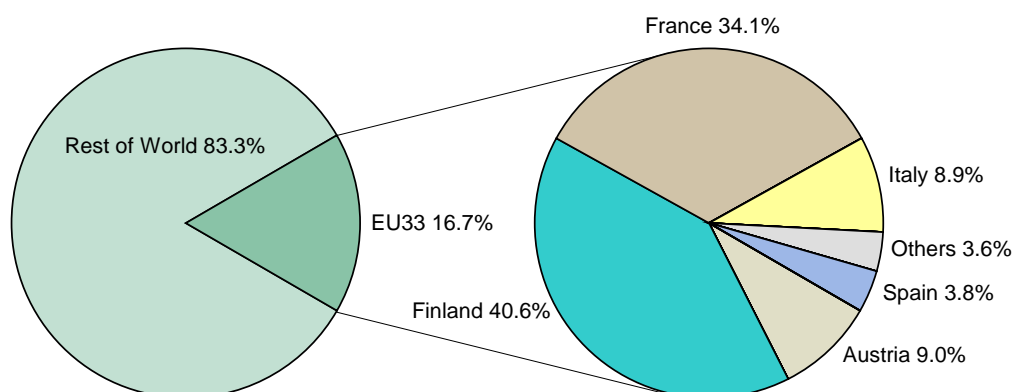
Sulphur and pyrites - EU33 trade in 2009



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 when finely ground. 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.
- In 2009 the largest world producer was China with an estimated 31 per cent of world production. The EU33 countries contributed 16.7 per cent to the world total and the largest producer was Finland, which accounted for 40.6 per cent of EU33 production.

EU33 Production of talc 2009



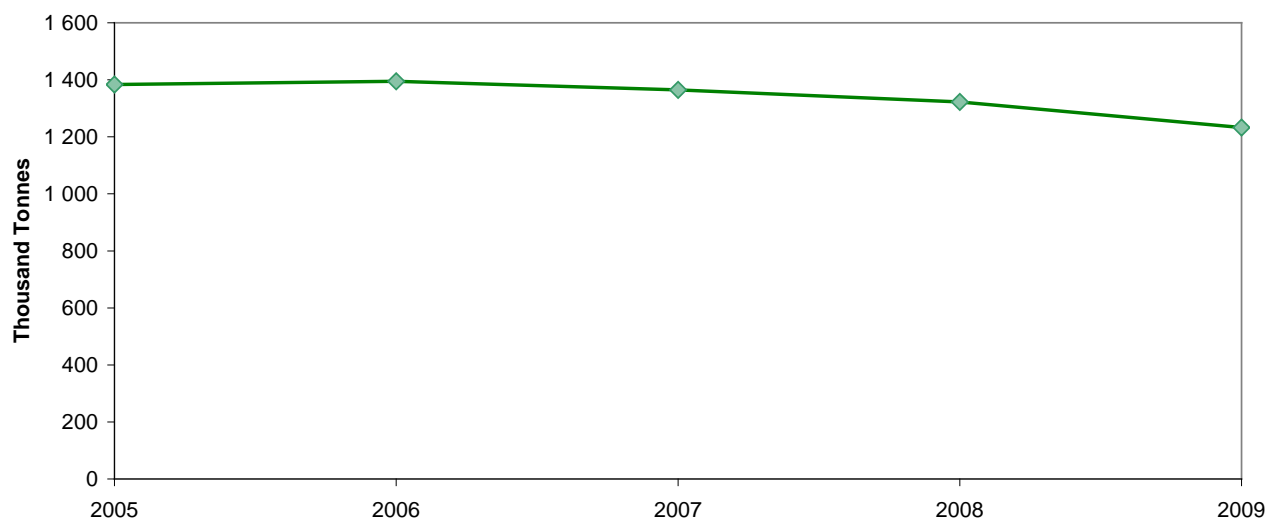
Production of talc

tonnes

Country	2005	2006	2007	2008	2009
Austria	166 569	159 447	153 409	154 577	111 388
Finland	508 169	547 146	535 882	527 686	* 500 000
France	416 000	* 420 000	* 420 000	* 420 000	* 420 000
Greece	250	* 250	200	* 200	* 200
Italy	140 581	130 714	117 643	* 110 000	* 110 000
Macedonia	1 955	1 025	1 775	977	—
Norway	34 000	* 34 000	* 34 000	* 30 000	23 350
Portugal	5 362	5 517	12 367	11 220	11 567
Romania	6 760	2 967	1 513	1 843	* 2 000
Slovakia	200	—	—	...	...
Spain					
Talc	90 589	83 502	78 042	59 299	47 218
Pyrophyllite	700	—	—	—	—
Sweden	7 000	6 000	7 000	4 000	4 000
United Kingdom	6 000	4 325	2 850	2 410	2 861
EU33 Total	1 383 000	1 395 000	1 365 000	1 322 000	1 233 000

Talc

EU33 Production of talc 2005 - 09



Exports of talc

tonnes

Country	2005	2006	2007	2008	2009
Austria	158 799	165 923	153 457	135 390	106 423
Belgium-Luxembourg	168 900	144 081	165 105	139 619	113 000
Finland (a)	* 278 000	* 246 000	* 284 000	* 320 000	* 174 000
France	279 659	273 706	276 014	269 771	224 419
Germany	3 906	4 790	5 394	6 382	3 662
Greece	3 479	4 065	5 016	3 926	3 898
Italy	120 920	122 148	131 071	114 017	124 212
Macedonia	789	735	1 124	509	528
Netherlands	183 270	190 668	199 896	186 688	147 544
Norway	28 448	31 834	33 032	27 371	23 461
Portugal	1 614	6 013	4 243	3 841	2 699
Slovakia	1 051	1 011	1 494	1 994	45
Spain	56 493	47 142	39 689	51 180	29 580
Sweden	10 080	7 556	9 415	9 227	8 032
Turkey	2 806	1 195	1 742	1 636	1 712
United Kingdom	5 244	4 626	2 389	3 129	2 402

Note(s)

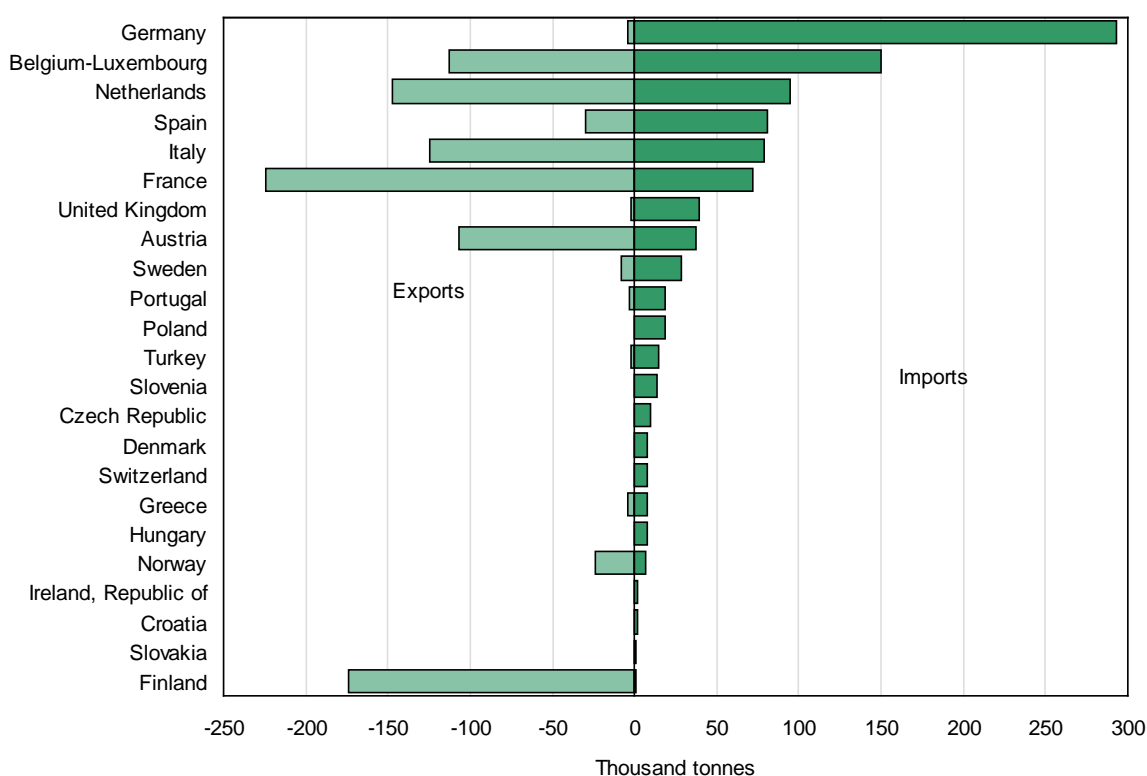
(a) BGS estimates, based on known imports into certain countries

Imports of talc

tonnes

Country	2005	2006	2007	2008	2009
Austria	50 768	49 900	58 500	68 797	37 648
Belgium-Luxembourg	224 624	186 227	202 593	194 833	149 768
Bulgaria	599	626	688	1 048	747
Croatia	1 378	1 753	1 985	1 709	1 721
Cyprus	386	307	343	521	290
Czech Republic	9 986	10 855	12 993	11 007	9 312
Denmark	14 103	13 299	10 830	12 055	8 035
Estonia	300	295	418	331	332
Finland	866	757	663	503	525
France	76 021	59 853	77 772	76 147	72 274
Germany	376 618	345 863	347 230	338 606	293 417
Greece	9 937	10 000	8 550	12 372	7 862
Hungary	...	8 175	9 224	8 875	7 566
Ireland, Republic of	2 632	1 278	375	473	1 722
Italy	125 913	129 218	140 461	147 549	78 506
Latvia	105	217	396	417	314
Lithuania	402	463	511	388	225
Malta	302	271	179	295	263
Netherlands	206 485	243 071	225 720	207 922	94 407
Norway	16 488	10 991	13 374	8 020	6 517
Poland	20 536	22 348	23 122	28 186	18 325
Portugal	23 583	30 955	36 089	26 774	18 537
Romania	1 962	2 101	2 006	1 971	1 105
Slovakia	1 552	4 174	1 344	2 448	1 030
Slovenia	5 357	5 297	5 301	12 860	13 756
Spain	80 726	87 578	96 298	85 942	81 043
Sweden	45 376	44 669	48 746	45 801	28 459
Switzerland	10 254	10 786	10 360	8 756	7 987
Turkey	15 454	17 143	18 549	17 706	14 893
United Kingdom	65 496	55 200	54 812	53 864	39 520

Talc - EU33 trade in 2009



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, such as those in mobile telephones. Niobium is a soft and ductile metallic element that is used mainly in special steels and superalloys.
- The largest producer of tantalum in 2009 was Rwanda (approximately 26 per cent of the world's total) because Australia's output dropped by 85 per cent due to the temporary closure of its mines. The largest producer of niobium ores was Brazil (> 90 per cent). There was no production in the EU33, which is entirely import dependent.

Exports of tantalum

Country	2005	2006	2007	2008	2009
Austria	—	—	13	20	35
Belgium-Luxembourg	...	0	3	26	3
Czech Republic	68	53	66	97	62
Estonia	65	51	43	67	47
France	101	9	21	18	37
Germany	190	294	199	299	8
Lithuania	5	5	48	31	11
Netherlands	3	76	2	2	4
Portugal	15	4	63	48	49
Switzerland	27	17	14	7	1
United Kingdom	131	83	77	55	72

Note(s)

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

Imports of tantalum

Country	2005	2006	2007	2008	2009
Austria	0	0	70	—	—
Czech Republic	141	164	206	253	141
France	23	55	83	84	43
Germany	164	148	125	188	67
Lithuania	10	11	47	38	24
Netherlands	12	6	8	10	4
Poland	1	0	3	52	1
Portugal	115	103	69	83	22
Spain	62	10	112	—	3
United Kingdom	97	119	96	161	145

Note(s)

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

Tin

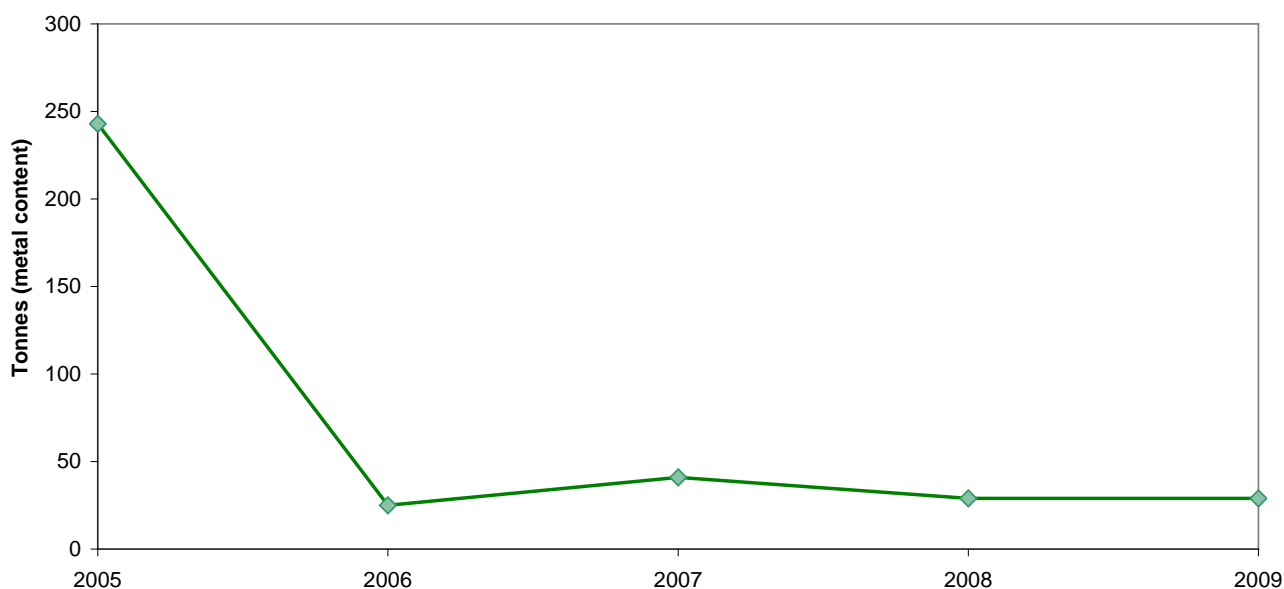
- Tin is a malleable and ductile metal that is resistant to corrosion. The chief use of tin is to coat metals that are more susceptible to corrosion, especially steel. It is also widely used as an alloying agent (i.e. with lead to make pewter) and its use in solders is rapidly growing as it replaces lead. Tin chemicals are used as fungicides and other biocides.
- World mine production is dominated by China with an estimated 46 per cent of the world total in 2009, while mine production from the EU33 countries is limited to a small amount from Portugal. World production of refined tin is also dominated by China with 43 per cent of the world total in 2009. Production within the EU33 countries occurs only in Belgium, which produces nearly three per cent of the world total from imported ores.

Mine production of tin

tonnes (metal content)

Country	2005	2006	2007	2008	2009
Portugal	243	25	41	29	34

EU33 Mine production of tin 2005 - 09



Smelter production of tin

tonnes

Country	2005	2006	2007	2008	2009
Belgium	7 700	8 000	8 400	9 200	8 700

Exports of tin

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Unwrought (a)	116	110	167	177	71
Scrap	62	125	103	141	53
Belgium-Luxembourg					
Concentrates	286	118	68	161	42
Unwrought	6 814	1 633	2 734	7 274	4 753
Unwrought alloys	388	7 421	7 072	2 448	5 000
Scrap	362	216	148	233	127
Czech Republic					
Unwrought (a)	381	74	253	86	76
Scrap	65	249	958	85	118
Denmark					
Scrap	68	124	90	28	37
Estonia					
Scrap	125	17	71	88	124
Finland					
Unwrought (a)	66	95	56	77	36
Scrap	58	89	201	193	124
France					
Unwrought	324	368	552	441	402
Unwrought alloys	1 020	1 010	884	236	140
Scrap	478	893	590	654	282
Germany					
Concentrates	163	331	—	—	163
Unwrought	1 343	1 015	1 246	1 612	1 000
Unwrought alloys	329	392	1 371	1 530	1 088
Scrap	701	965	1 222	1 649	1 129
Hungary					
Unwrought (a)	28	70	51	140	82
Scrap	67	123	141	246	222
Ireland, Republic of					
Concentrates	151	110	75	83	81
Unwrought (a)	67	71	1 094	34	23
Scrap	58	54	77	86	90
Italy					
Unwrought (a)	503	437	567	392	411
Scrap	17	269	204	249	154
Latvia					
Scrap	20	307	—	—	...
Malta					
Scrap	9	373	340	250	...
Netherlands					
Unwrought	5 330	6 971	8 061	2 566	1 536
Unwrought alloys	1 790	1 051	293	948	558
Scrap	297	761	545	157	547
Norway					
Scrap	323	236	189	119	12
Poland					
Unwrought (a)	116	182	1 520	355	279
Scrap	158	37	34	20	14
Portugal					
Unwrought alloys	—	146	172	—	—
Scrap	7	124	25	147	9
Slovakia					
Unwrought	59	(a) 251	20	107	(a) 9
Spain					
Unwrought (a)	139	120	98	433	427
Scrap	435	408	460	447	2 038
Sweden					
Unwrought (a)	217	250	201	213	122
Scrap	45	43	161	96	63
Switzerland					
Unwrought (a)	29	160	112	114	87
Scrap	157	130	123	76	136
Turkey					
Unwrought (a)	17	18	179	118	37

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
United Kingdom					
Concentrates	2	4	373	254	61
Unwrought	1 608	8 395	4 085	1 264	928
Unwrought alloys	442	698	696	532	537
Scrap	20 603	35 252	27 329	19 110	22 597

Note(s)

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

(a) Including alloys

Imports of tin

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Unwrought (a)	1 926	2 177	2 486	2 679	1 915
Belgium-Luxembourg					
Concentrates	377	154	17	318	16
Unwrought	1 210	1 312	1 657	1 112	1 364
Unwrought alloys	1 284	1 368	2 719	2 235	2 638
Scrap	1 382	4 866	3 907	2 422	2 327
Bulgaria					
Unwrought (a)	51	278	51	69	22
Czech Republic					
Unwrought (a)	634	665	616	802	937
Finland					
Unwrought (a)	178	173	166	184	94
France					
Concentrates	194	22	73	81	78
Unwrought	7 307	8 159	7 689	6 506	5 869
Unwrought alloys	1 080	931	409	554	207
Scrap	217	182	432	588	259
Germany					
Unwrought	20 438	21 584	23 917	22 160	14 193
Unwrought alloys	554	936	409	179	175
Scrap	506	917	1 689	2 243	674
Greece					
Unwrought (a)	615	244	323	265	80
Hungary					
Unwrought (a)	192	384	328	320	208
Ireland, Republic of					
Unwrought (a)	307	211	249	389	100
Italy					
Concentrates	24	572	65	—	3
Unwrought	5 899	5 526	4 113	4 124	2 652
Unwrought alloys	135	392	504	777	360
Netherlands					
Unwrought	8 730	13 696	7 858	11 003	7 071
Unwrought alloys	1 983	1 283	1 972	2 540	504
Scrap	201	466	607	503	380
Norway					
Unwrought (a)	78	126	74	80	71
Poland					
Concentrates	...	3	77	...	220
Unwrought (a)	1 437	1 583	1 838	1 857	1 102
Scrap	705	1 653	1 931	1 038	1 664
Portugal					
Unwrought	971	763	577	487	308
Unwrought alloys	100	274	419	130	103
Romania					
Unwrought (a)	216	421	137	127	114

Tin					
Imports continued					tonnes
Country	2005	2006	2007	2008	2009
Slovakia					
Unwrought (a)	2 610	2 246	2 260	2 276	2 059
Slovenia					
Unwrought (a)	151	73	101	87	69
Spain					
Unwrought	7 109	7 716	7 093	7 313	5 457
Unwrought alloys	170	220	167	261	243
Scrap	1 919	1 576	185	376	441
Sweden					
Unwrought (a)	761	838	720	555	364
Switzerland					
Unwrought (a)	909	1 042	1 241	1 093	800
Turkey					
Unwrought (a)	2 731	2 380	2 788	2 603	1 630
United Kingdom					
Unwrought	4 812	3 558	13 630	7 181	4 522
Unwrought alloys	2 067	891	525	400	370
Scrap	468	1 728	452	448	121

Note(s)

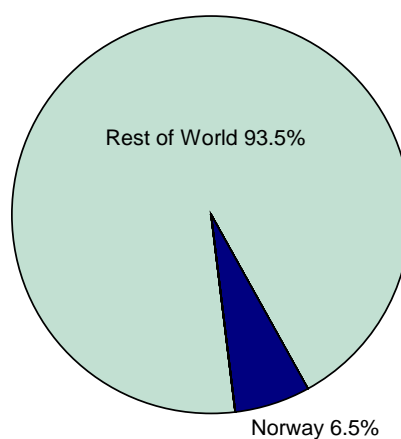
(1) In this table the term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc.

(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 per cent) of titanium minerals is in the form of titanium dioxide, a white pigment used in paint, plastics, rubber and paper.
- In 2009 Canada was the world's largest producer of titanium minerals, followed by Australia and South Africa. Together these three countries produced 50 per cent of the world total. EU33 production is restricted to Norway, which produced 6.5 per cent of the world total.

EU33 Production of titanium minerals 2009



Production of titanium minerals

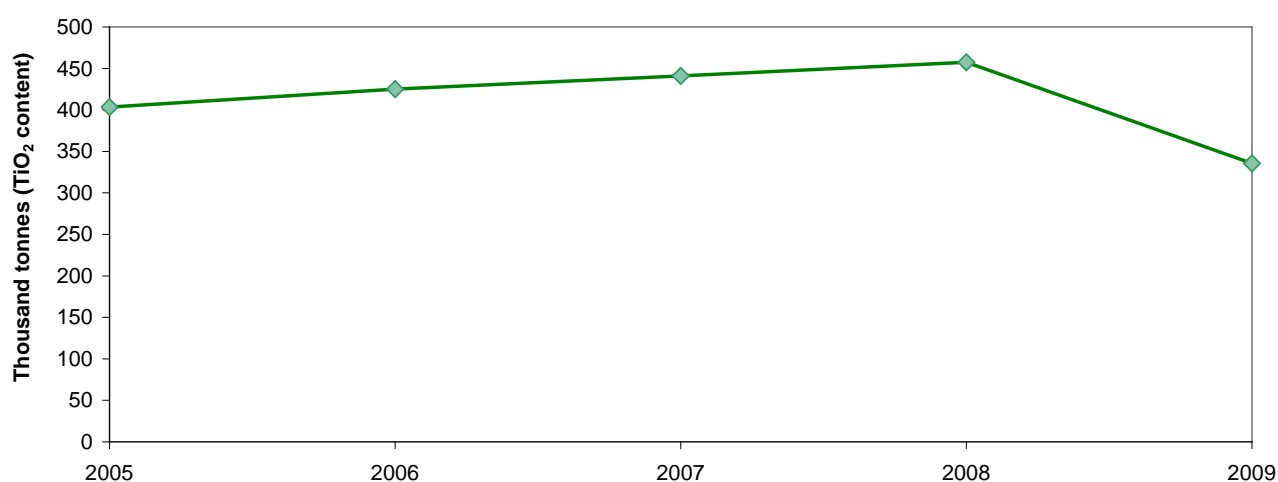
tonnes

Country	2005	2006	2007	2008	2009
Norway					
Ilmenite	806 800	850 000	882 000	915 000	671 000

Note(s)

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

EU33 Production of titanium minerals 2005 - 09



Titanium

Exports of titanium

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal	317	513	576	717	203
Oxides	3 457	3 976	4 885	6 444	5 344
Belgium-Luxembourg					
Titanium minerals	131 597	100 498	129 722	100 210	58 687
Titanium slag	4 219	20 830	3 209	5 085	...
Metal	1 093	1 490	2 074	1 174	1 096
Oxides	366 632	401 614	422 885	401 906	369 495
Bulgaria					
Metal	9	4	28	835	2
Croatia					
Oxides	155	419	489	417	331
Czech Republic					
Titanium minerals	340	492	745	641	452
Metal	358	424	126	84	339
Oxides	40 707	43 010	43 166	42 860	46 753
Denmark					
Metal	184	146	162	152	102
Oxides	1 136	1 134	1 121	460	442
Estonia					
Metal	31	49	11	13	30
Oxides	144	163	1 491	579	158
Finland					
Metal	44	35	30	11	14
Oxides (a)	* 104 000	* 103 000	* 103 000	* 106 000	* 86 000
France					
Titanium minerals	62	116	2 242	93	150
Metal	5 891	5 722	5 112	5 391	4 523
Oxides	157 543	167 807	171 337	148 573	113 798
Germany					
Titanium minerals	607	490	776	3 322	6 864
Metal	8 911	8 893	8 713	8 278	5 367
Oxides	359 946	400 832	409 495	367 545	351 872
Greece					
Oxides	2 373	1 861	2 233	598	462
Hungary					
Oxides	126	324	991	1 402	1 120
Italy					
Titanium slag	1 499	...	...	...	...
Metal	4 130	4 101	4 884	5 478	3 607
Oxides	25 433	22 473	26 242	25 982	23 508
Lithuania					
Oxides	141	208	268	1 230	502
Netherlands					
Titanium minerals	1 390	1 660	449	1 341	13 664
Metal	2 181	1 902	2 182	1 551	895
Oxides	84 310	95 512	64 544	15 544	36 179
Norway					
Titanium minerals (a)	* 382 000	* 477 000	* 435 000	* 435 000	* 350 000
Metal	159	176	117	339	227
Oxides (a)	* 177 000	* 221 000	* 199 000	* 217 000	* 207 000
Poland					
Metal	740	917	52	117	105
Oxides	24 394	25 598	21 776	21 509	20 937
Portugal					
Oxides	512	840	1 064	1 189	1 166
Romania					
Metal	255	579	650	2 469	541
Slovakia					
Metal	13	28	5	76	3
Slovenia					
Metal	21	36	37	40	23
Oxides	44 123	50 755	55 867	55 110	57 866

Titanium

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Spain					
Titanium minerals	170	185	232	155	25 892
Metal	903	2 005	1 431	947	1 018
Oxides	83 905	85 307	91 583	58 342	33 721
Sweden					
Metal	1 955	1 461	2 667	1 002	717
Oxides	14 306	20 409	17 047	19 992	15 921
Switzerland					
Metal	560	692	868	987	734
Oxides	1 020	1 024	1 133	1 276	1 203
Turkey					
Metal	30	17	—	49	47
Oxides	2 350	2 023	2 489	2 607	2 237
United Kingdom					
Metal	17 212	14 028	12 934	11 155	9 555
Oxides	215 741	182 246	212 068	222 503	203 873

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	2005	2006	2007	2008	2009
Austria					
Titanium minerals	349	575	451	520	362
Metal	1 691	1 873	3 851	2 455	1 346
Oxides	25 640	27 485	26 856	30 861	28 258
Belgium-Luxembourg					
Ilmenite	—	720	—	1 337	586
Other titanium minerals	165 711	156 771	221 173	203 355	109 443
Metal	2 289	1 857	4 139	3 904	2 198
Oxides	291 670	314 131	145 929	133 378	109 696
Bulgaria					
Titanium minerals	1 287	300	712	42	105
Oxides	3 959	4 750	5 398	5 955	5 329
Croatia					
Oxides	2 561	2 827	3 244	2 989	2 697
Cyprus					
Oxides	1 286	1 227	1 243	1 603	1 189
Czech Republic					
Titanium minerals	80 407	149 925	179 323	193 858	140 394
Metal	1 143	1 155	1 086	1 122	918
Oxides	8 008	8 734	10 529	8 765	7 248
Denmark					
Metal	770	788	623	774	670
Oxides	23 156	24 678	19 514	17 055	17 511
Estonia					
Metal	294	74	393	97	50
Oxides	1 367	2 193	2 548	2 106	1 349
Finland					
Titanium minerals	5 080	34 403	20 578	26 200	8 794
Oxides	14 380	14 788	15 838	14 256	12 524
France					
Ilmenite	60 205	83 499	60 739	58 423	17 766
Other titanium minerals	86 552	78 849	71 292	12 531	11 964
Titanium slag	111 137	107 092	91 602	80 726	85 776
Metal	9 403	9 431	10 521	10 036	7 282
Oxides	119 699	135 309	126 786	128 226	136 389

Titanium

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Germany					
Ilmenite	333 603	414 037	425 175	446 154	304 471
Other titanium minerals	224 675	253 392	200 512	279 407	212 735
Titanium slag	—	17 403	112 474	76 107	42 042
Metal	15 978	18 426	19 385	19 449	11 649
Oxides	240 554	269 812	299 599	281 009	240 120
Greece					
Titanium minerals	528	440	826	399	351
Oxides	25 592	25 372	27 284	23 260	19 289
Hungary					
Titanium minerals	2 260	1 623	...	2 659	...
Oxides	7 523	7 845	8 291	8 590	6 853
Iceland					
Oxides	388	312	396	322	233
Ireland, Republic of					
Metal	290	350	362	1 154	507
Oxides	5 059	4 703	4 822	3 961	4 308
Italy					
Titanium minerals	85 607	185 121	136 274	102 909	74 338
Metal	5 186	6 248	8 609	7 155	3 352
Oxides	154 950	161 253	166 223	141 959	139 071
Latvia					
Oxides	726	833	781	3 112	562
Lithuania					
Oxides	926	975	1 328	980	1 259
Macedonia					
Oxides	466	471	383	426	427
Malta					
Oxides	471	512	531	463	470
Netherlands					
Titanium minerals	127 941	79 377	103 580	87 769	* 100 000
Metal	1 857	2 234	4 295	1 073	1 224
Oxides	46 008	8 387	41 221	37 101	40 914
Norway					
Titanium minerals	33 000	73 690	17 600	73 307	29 809
Metal	636	661	637	937	389
Oxides	11 924	16 013	12 121	12 241	8 209
Poland					
Titanium minerals	100 539	95 057	100 002	91 208	84 396
Metal	328	2 550	2 122	451	264
Oxides	33 417	36 943	45 984	41 019	42 031
Portugal					
Oxides	17 458	18 565	19 545	18 800	18 456
Romania					
Titanium minerals	2 111	1 809	2 093	2 171	1 513
Metal	328	486	612	453	707
Oxides	7 600	9 794	11 132	9 127	7 151
Slovakia					
Titanium minerals	17 627	12 648	17 242	...	...
Metal	980	179	250	329	130
Oxides	2 804	2 742	2 193	2 389	2 949
Slovenia					
Titanium minerals	21 054	22 825	14 903	34 930	32 789
Titanium slag	...	64 246	53 245	65 180	66 818
Metal	614	392	348	257	233
Oxides	3 157	3 153	3 500	3 296	2 889
Spain					
Ilmenite	121 204	159 090	121 898	119 467	26 512
Other titanium minerals	1 746	1 807	22 037	9 133	522
Titanium slag	57	8	2 164	10 004	...
Metal	3 862	5 782	3 450	3 131	1 735
Oxides	117 203	112 778	123 132	138 275	93 267
Sweden					
Titanium minerals	300	911	1 032	995	726
Metal	1 382	2 294	2 623	2 391	1 593
Oxides	50 099	62 841	65 872	61 890	53 071

Imports continued

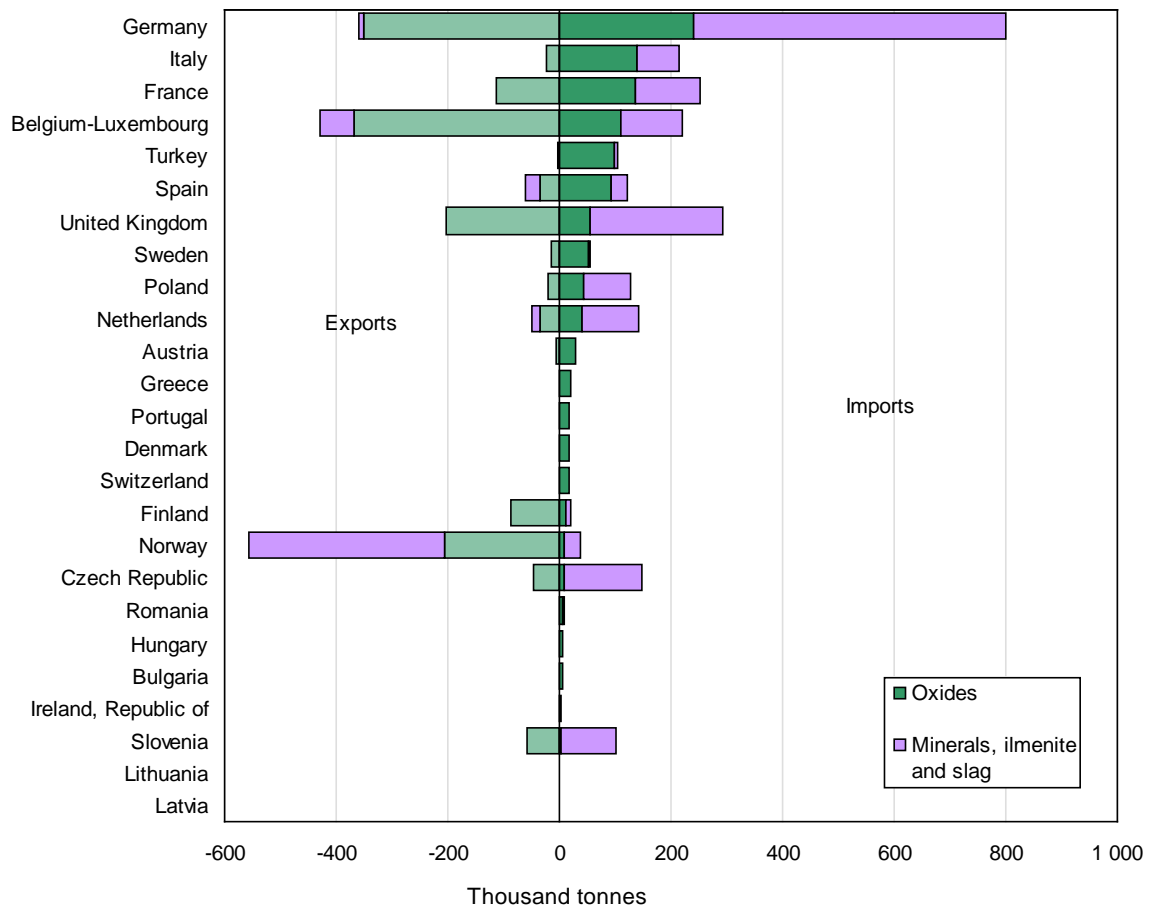
tonnes

Country	2005	2006	2007	2008	2009
Switzerland					
Metal	1 273	1 357	1 352	1 168	862
Oxides	19 055	18 805	20 455	19 550	17 086
Turkey					
Titanium minerals	6 755	6 831	* 9 000	7 762	5 628
Oxides	92 136	108 721	111 858	106 206	98 100
United Kingdom					
Ilmenite	80 435	175 882	181 794	194 719	112 068
Other titanium minerals	109 238	48 147	42	37	23
Titanium slag	64 849	91 603	151 494	316 390	127 224
Metal	27 938	30 267	30 905	32 305	23 178
Oxides	67 102	71 528	74 708	58 748	53 864

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

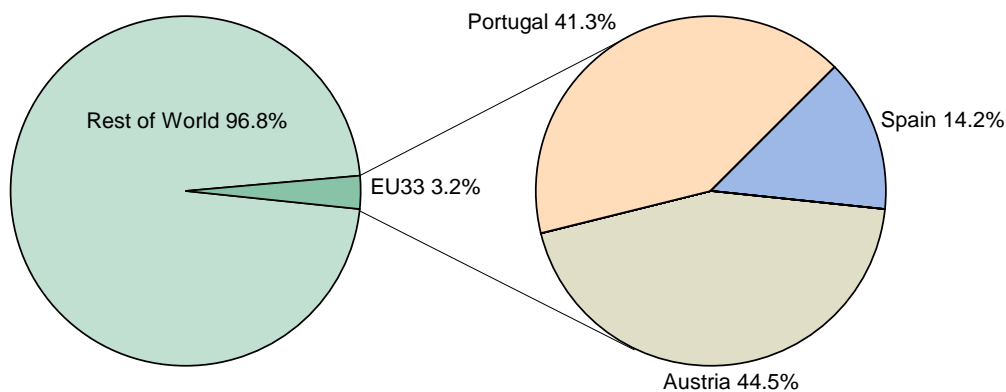
Titanium - EU33 trade in 2009



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 was the world's largest tungsten producer in 2009, with 80 per cent of the world total. There was minor production from Austria, Portugal and Spain but overall the EU33 contributed just 3.2 per cent to the world total.

EU33 Production of tungsten 2009



Mine production of tungsten

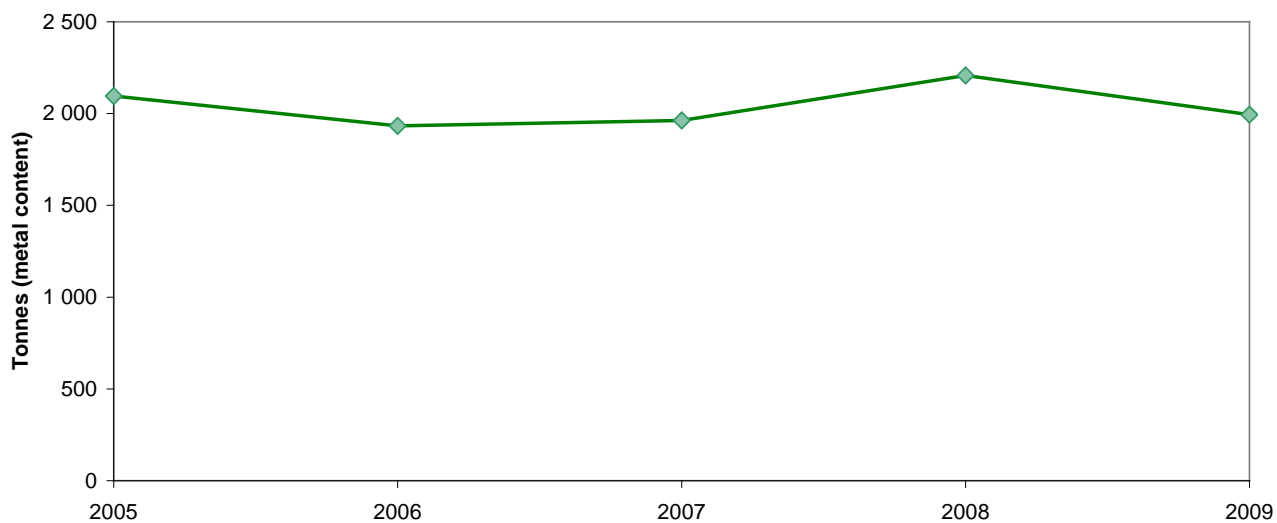
tonnes (metal content)

Country	2005	2006	2007	2008	2009
Austria	1 280	1 153	1 117	1 122	887
Portugal (a)	816	780	846	892	823
Spain	—	—	—	194	284
EU33 Total	2 100	1 900	2 000	2 200	2 000

Note(s)

(a) Wolframite and scheelite

EU33 Production of tungsten 2005 - 09



Exports of tungsten

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Metal (a)	* 2 100	* 2 000	* 1 600	* 1 600	* 4 300
Belgium-Luxembourg					
Metal	452	484	387	405	422
Carbide	25	62	54	36	32
Czech Republic					
Metal	185	142	102	86	30
Carbide	...	579	605	592	307
Denmark					
Metal	5	86	112	121	91
Finland					
Metal	77	80	113	360	291
France					
Metal	574	617	1 148	676	398
Carbide	265	343	431	354	261
Germany					
Metal	4 020	4 320	3 020	4 687	2 655
Ireland, Republic of					
Metal	963	183	180	10	—
Italy					
Metal	233	197	455	973	670
Netherlands					
Ores & concentrates	—	276	181	29	...
Metal	502	434	391	582	133
Poland					
Metal	84	89	76	143	136
Portugal					
Ores & concentrates	1 425	1 305	1 466	1 705	1 407
Slovakia					
Metal	16	66	2	9	4
Spain					
Ores & concentrates	—	—	0	286	457
Metal	77	59	177	223	156
Sweden					
Ores & concentrates	62	—	3 192	75	96
Metal	414	296	234	328	431
Carbide	37	491	446	436	253
Switzerland					
Metal	316	270	392	400	239
Turkey					
Metal	115	25	33	99	213
United Kingdom					
Metal	1 732	2 100	2 444	1 625	1 541
Carbide	83	251	303	51	80

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	2005	2006	2007	2008	2009
Austria					
Metal	825	670	548	435	369
Belgium-Luxembourg					
Metal	340	454	513	426	327
Carbide	42	64	1 182	1 028	500
Czech Republic					
Metal	173	197	837	206	4 184
Denmark					
Metal	307	523	113	110	105
Finland					
Metal	121	21	130	296	205
France					
Metal	784	925	823	898	547
Carbide	592	898	866	859	311
Germany					
Ores & concentrates	493	512	604	967	821
Metal	5 515	4 450	4 791	5 184	3 313
Carbide	1 802	1 366	2 678	2 526	1 333
Hungary					
Metal	165	41	41	54	31
Ireland, Republic of					
Metal	292	173	277	215	68
Carbide	...	53	184	158	108
Italy					
Metal	257	236	280	255	147
Carbide	337	365	361	350	103
Netherlands					
Ores & concentrates	110	1 532	875	457	5
Metal	204	330	284	329	71
Carbide	99	49	36	94	42
Poland					
Metal	108	111	108	103	87
Portugal					
Metal	179	106	122	251	193
Carbide	105	97	119	169	46
Romania					
Metal	7	7	59	1 122	22
Spain					
Metal	134	556	914	731	681
Sweden					
Metal	502	563	546	588	175
Carbide	925	738	876	904	233
Switzerland					
Metal	235	146	257	272	105
United Kingdom					
Metal	3 204	4 607	2 925	1 865	1 477
Carbide	974	913	1 409	1 023	614

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 per cent of world total) and China (36 per cent of world total) are the largest producers. There is no EU33 mine production. In the USA vanadium is a significant by-product from the refining of heavy crude oils.

Exports of vanadium

tonnes

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Ores & concentrates	2 600	791	297	327	131
France					
Metal	25	63	...	...	...
Germany					
Ores & concentrates	4 680	2 372	...	...	...
Pentoxide	1 216	1 444	1 250	1 173	...
Metal	1 469	573	...	...	...
Italy					
Ores & concentrates	1 092	1 291	527	217	385
Lithuania					
Ores & concentrates	...	...	346	358	...
Netherlands					
Pentoxide	381	411	157	45	102
Metal	11	20	...	...	...
Turkey					
Pentoxide	940	—	24	200	119
United Kingdom					
Pentoxide	20	23	697	589	487
Metal	433	69	2 182	2	18

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	2005	2006	2007	2008	2009
Austria					
Vanadiferous residues	* 29 000	* 29 000	* 37 000	* 36 000	* 35 000
Ores & concentrates	1 565	792	543	460	...
Pentoxide (a)	* 260	* 50	...	* —	* 30
Belgium-Luxembourg					
Ores & concentrates	894	197	162	202	123
Pentoxide	267	12	64	38	94
Metal	60	67	...	...	...
Czech Republic					
Pentoxide	3 831	4 858	3 210	5 135	2 702
France					
Ores & concentrates	21	—	...	—	—
Pentoxide	556	533	656	674	371
Metal	88	71	...	...	...
Germany					
Ores & concentrates	104	53	79	60	...
Pentoxide	741	1 222	1 071	879	...
Metal	193	173	...	...	...
Greece					
Ores & concentrates	...	...	...	...	80

Vanadium

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Italy					
Ores & concentrates	...	75	...	255	18
Pentoxide	156	209	150	173	45
Netherlands					
Pentoxide	714	362	316	227	27
Norway					
Metal	10	63	...	...	...
Poland					
Metal	32	41	...	...	...
Slovenia					
Metal	14	26	...	...	...
Spain					
Ores & concentrates	9	20	50	80	22
Pentoxide	62	71	45	43	50
Sweden					
Pentoxide	3	1	1	76	25
Metal	20	40	...	...	...
United Kingdom					
Pentoxide	339	472	425	344	84
Metal	812	407	583	314	112

Note(s)

(1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any

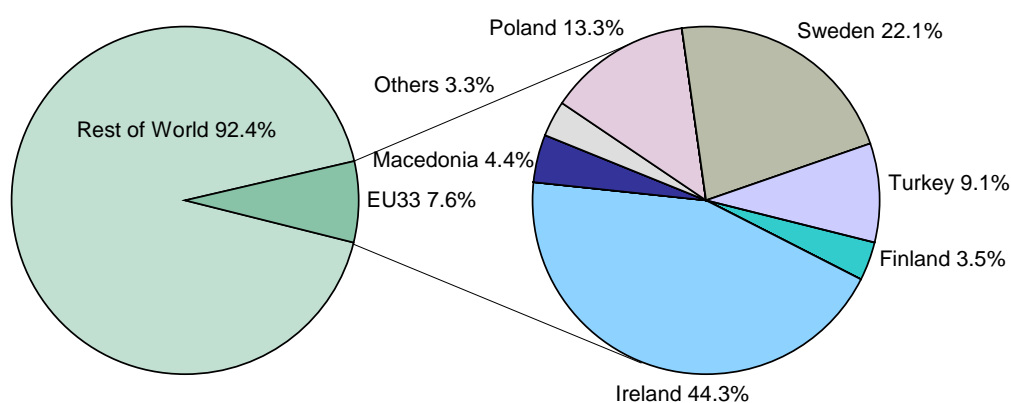
(2) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

(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 was the world's largest mine producer during 2009 with 27 per cent of the total. Peru (13 per cent) and Australia (11 per cent) are also major producers. The Republic of Ireland was the largest mine producer in the EU33 with 44.3 per cent of the EU33 total, although overall the EU33 contributed less than eight per cent to the world total. A number of EU33 countries have major zinc refineries.

EU33 Mine production of zinc 2009



Mine production of zinc

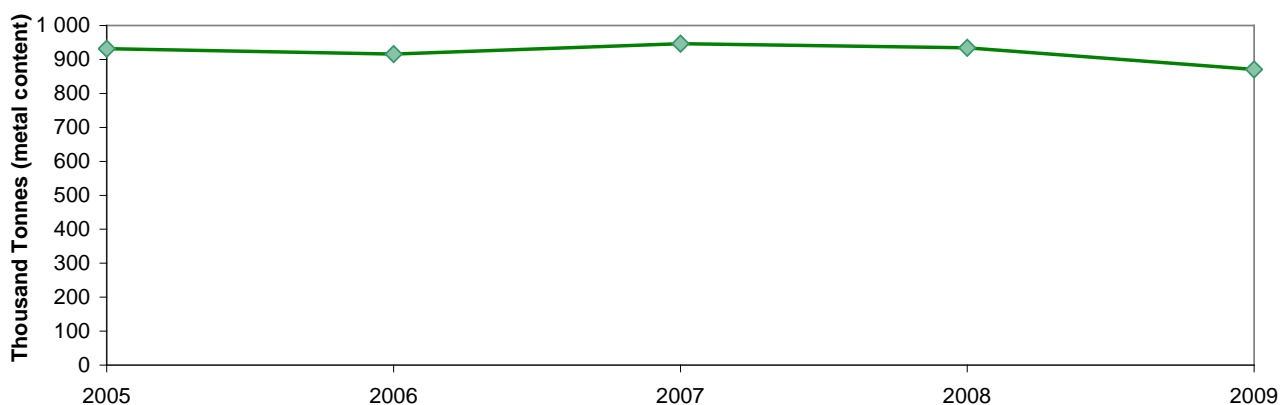
tonnes (metal content)

Country	2005	2006	2007	2008	2009
Bulgaria (a)	20 875	16 108	14 453	12 819	9 339
Finland	40 500	35 700	38 900	27 800	30 233
Greece	4 000	16 000	20 700	24 200	17 800
Ireland, Republic of	445 400	425 800	400 900	398 200	385 700
Macedonia	—	10 836	30 957	38 737	38 648
Poland	135 600	126 600	129 600	132 400	115 500
Portugal	—	7 505	24 380	37 900	501
Romania	13 784	8 052	849	14	—
Spain	—	—	—	—	1 200
Sweden	215 691	210 029	214 576	187 987	192 502
Turkey	56 000	59 000	71 000	74 000	79 000
EU33 Total	932 000	916 000	946 000	934 000	870 000

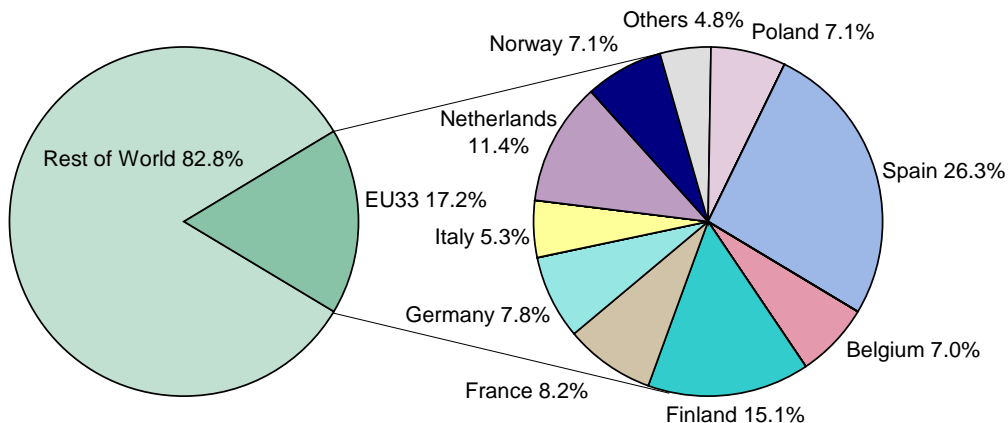
Note(s)

(a) Metal content of ore

EU33 Mine production of zinc 2005 - 09



EU33 Production of slab zinc 2009

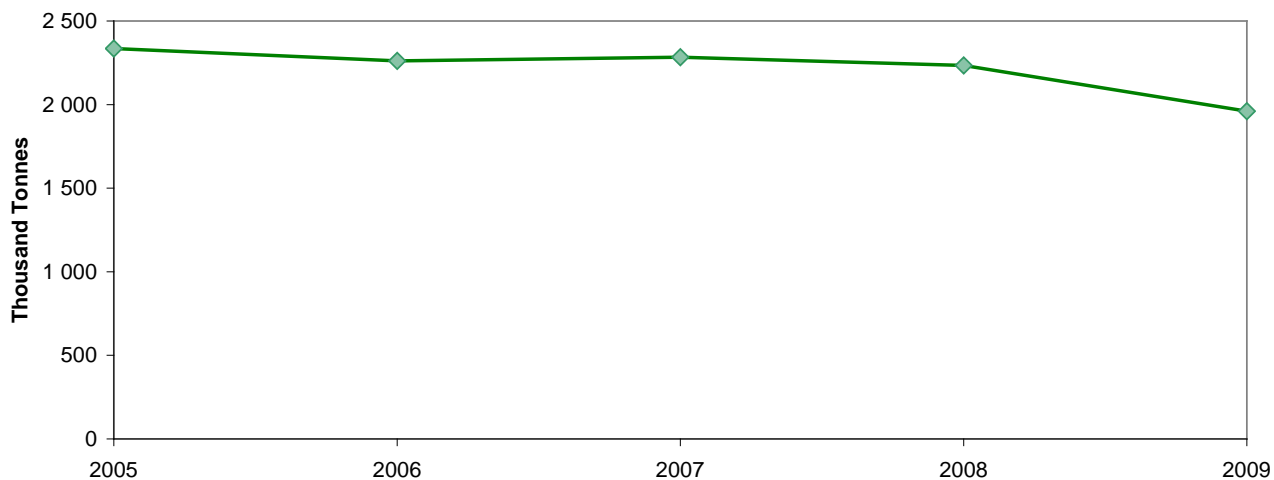


Production of slab zinc

tonnes

Country	2005	2006	2007	2008	2009
Belgium	222 000	238 000	254 000	251 000	137 000
Bulgaria	92 500	85 900	98 100	101 700	92 700
Finland	281 904	282 238	305 543	297 722	295 049
France	209 000	120 000	129 000	118 000	161 000
Germany	334 900	342 566	294 735	292 284	* 153 000
Italy	121 200	109 200	102 100	107 100	103 400
Netherlands	227 500	238 274	234 000	250 000	224 000
Norway	151 285	160 670	157 027	145 469	138 973
Poland	137 300	133 900	141 900	142 500	139 100
Romania	56 795	43 705	58 342	61 978	1 000
Spain	501 400	507 300	509 000	466 000	515 000
EU33 Total	2 336 000	2 262 000	2 284 000	2 234 000	1 960 000

EU33 Production of slab zinc 2005 - 09



Exports of zinc

tonnes

Country	2005	2006	2007	2008	2009
Austria					
Unwrought (a)	13 469	19 981	14 682	13 794	5 703
Scrap	3 559	4 329	2 132	8 176	6 052
Belgium-Luxembourg					
Ores & concentrates	511 730	540 810	479 825	735 050	785 125
Unwrought	10 058	13 275	22 114	8 379	13 626
Scrap	37 754	57 851	42 673	15 900	17 067
Bulgaria					
Ores & concentrates	...	492	4 384	7 982	2 076
Unwrought (a)	82 902	227 543	90 573	96 678	87 008
Scrap	1 576	1 854	1 511	1 293	2 226
Croatia					
Scrap	417	511	683	700	708
Cyprus					
Scrap	63	69	1 746	...	118
Czech Republic					
Unwrought (a)	7 865	10 669	18 786	17 258	19 982
Scrap	2 498	3 086	2 981	2 705	2 716
Denmark					
Scrap	3 538	3 628	2 388	2 028	2 622
Estonia					
Scrap	539	1 121	725	2 860	1 065
Finland					
Unwrought (a)	235 403	233 231	260 434	257 411	268 893
Scrap	2 116	1 650	1 274	964	1 012
France					
Ores & concentrates	39 463	47 516	51 781	78 398	39 350
Unwrought	80 472	31 960	29 305	31 601	64 773
Unwrought alloys	33 940	12 205	7 238	5 073	9 362
Scrap	63 571	71 224	56 200	43 770	45 986
Germany					
Ores & concentrates	7 257	2 336	612	1 835	888
Unwrought	81 664	65 824	77 443	70 724	63 165
Unwrought alloys	30 115	29 999	30 439	28 835	24 163
Scrap	55 913	54 939	59 297	51 801	68 648
Greece					
Ores & concentrates	3 276	12 615	14 890	43 003	21 311
Unwrought (a)	334	1 802	29 861	448	665
Hungary					
Unwrought	415	1 189	—	(a) 523	—
Scrap	3 938	4 557	3 716	1 902	2 978
Iceland					
Scrap	49	...	...	...	...
Ireland, Republic of					
Ores & concentrates	522 312	483 949	412 703	404 303	594 268
Scrap	684	569	3 044	649	312
Italy					
Ores & concentrates	96 439	114 339	105 437	99 121	48 051
Unwrought	9 230	37 659	21 048	7 967	5 258
Unwrought alloys	2 854	7 792	6 689	2 857	3 491
Scrap	13 652	12 934	13 574	8 603	12 334
Latvia					
Scrap	629	750	757	443	975
Lithuania					
Scrap	685	976	517	232	553
Macedonia					
Ores & concentrates	3 306	23 106	58 973	...	69 509
Scrap	720	719	874	576	479
Netherlands					
Ores & concentrates	5 836	3 730	13 939	0	425
Unwrought	273 832	615 269	243 354	244 789	133 994
Unwrought alloys	9 364	38 116	31 276	23 932	22 041
Scrap	41 593	39 073	67 010	19 815	* 11 900
Norway					
Unwrought	134 690	138 491	130 570	130 397	128 416
Unwrought alloys	5 600	12 275	13 899	9 227	6 107

Zinc

Exports continued

tonnes

Country	2005	2006	2007	2008	2009
Poland					
Ores & concentrates	63 913	61 094	61 595	58 035	45 877
Unwrought	74 938	62 332	73 096	83 571	84 833
Unwrought alloys	857	2 513	1 829	3 606	4 699
Scrap	797	233	422	430	1 617
Portugal					
Ores & concentrates	...	13 035	40 950	75 414	371
Unwrought (a)	127	706	242	1 307	849
Scrap	2 050	2 023	3 345	2 910	1 646
Romania					
Ores & concentrates	26 611	16 796	4 043	503	24 528
Unwrought (a)	42 012	32 008	48 339	59 395	8 004
Scrap	1 073	228	1 348	442	1 615
Slovakia					
Unwrought	3 522	5 232	16 356	14 600	12 871
Unwrought alloys	3 618	14 053	7 147	10 412	11 365
Slovenia					
Unwrought	180	(a) 1 553	(a) 1 557	(a) 1 937	(a) 1 469
Scrap	803	846	873	975	517
Spain					
Ores & concentrates	67 420	31 416	98 359	121 688	40 118
Unwrought	333 966	270 233	220 002	191 897	216 633
Unwrought alloys	32 673	87 073	66 155	92 781	62 544
Scrap	11 981	7 946	5 295	6 210	8 865
Sweden					
Ores & concentrates	372 925	402 219	405 682	389 473	395 616
Unwrought (a)	165	1 143	103	538	302
Scrap	16 134	29 015	2 777	2 898	1 840
Switzerland					
Unwrought (a)	897	1 001	679	1 078	524
Scrap	2 480	2 856	2 408	2 445	2 574
Turkey					
Ores & concentrates	138 288	144 662	123 956	253 573	272 559
Scrap	53	176	281	468	1 929
United Kingdom					
Ores & concentrates	141	468	82	246	11 418
Unwrought	1 661	5 325	5 932	3 883	3 600
Unwrought alloys	38 267	37 120	33 799	28 408	13 578
Scrap	9 881	4 571	7 543	5 699	6 030

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

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Country	2005	2006	2007	2008	2009
Austria					
Unwrought	58 838	61 856	65 391	61 877	37 864
Unwrought alloys	28 955	41 002	33 939	33 911	27 886
Belgium-Luxembourg					
Ores & concentrates	1 182 083	1 109 923	1 100 875	* 1 100 000	* 550 000
Unwrought	46 505	73 894	218 660	211 576	243 790
Unwrought alloys	35 653	24 414	13 475	8 612	13 536
Scrap	44 890	44 221	60 039	40 657	61 433
Bulgaria					
Ores & concentrates	149 735	198 504	208 313	146 655	147 579
Unwrought (a)	1 450	9 994	3 330	5 095	2 480
Croatia					
Unwrought (a)	3 329	11 506	4 674	4 656	3 149

Imports continued

tonnes

Country	2005	2006	2007	2008	2009
Czech Republic					
Unwrought	28 263	33 732	35 666	36 733	24 660
Unwrought alloys	8 039	11 113	11 992	11 344	7 155
Scrap	565	334	4 008	2 792	2 434
Denmark					
Unwrought	9 855	11 494	9 931	12 591	6 063
Unwrought alloys	1 457	1 320	1 345	910	771
Estonia					
Unwrought (a)	9 129	7 253	4 362	7 676	1 595
Finland					
Ores & concentrates	499 024	520 081	555 569	582 049	532 036
Unwrought (a)	1 314	1 443	4 513	4 242	3 705
France					
Ores & concentrates	423 664	250 791	259 750	238 502	241 976
Unwrought	143 476	170 263	166 110	164 172	128 674
Unwrought alloys	45 566	47 309	44 124	45 480	27 000
Scrap	6 996	7 833	7 247	3 694	4 604
Germany					
Ores & concentrates	401 829	314 268	357 692	383 789	271 554
Unwrought	245 794	313 034	316 603	305 075	285 965
Unwrought alloys	76 981	83 795	87 785	89 738	36 350
Scrap	22 480	30 028	19 586	17 395	16 782
Greece					
Unwrought (a)	20 110	19 320	58 708	28 996	25 422
Hungary					
Unwrought (a)	14 529	19 093	16 843	17 011	9 862
Ireland, Republic of					
Unwrought (a)	3 629	7 010	7 687	5 185	2 210
Italy					
Ores & concentrates	219 491	175 253	195 798	161 838	155 028
Unwrought	261 192	229 040	314 714	179 691	118 424
Unwrought alloys	34 929	42 768	51 514	81 350	22 194
Scrap	14 172	18 541	21 599	15 369	15 315
Latvia					
Unwrought (a)	654	953	664	1 256	830
Lithuania					
Unwrought (a)	547	1 554	627	563	190
Macedonia					
Unwrought (a)	3 750	15 658	6 721	4 954	4 147
Netherlands					
Ores & concentrates	484 472	532 861	359 520	430 617	320 568
Unwrought	144 592	200 472	182 072	155 003	104 253
Unwrought alloys	2 387	40 482	38 602	24 062	15 791
Scrap	15 257	14 619	13 633	6 270	8 274
Norway					
Ores & concentrates	255 158	248 486	284 791	243 213	209 649
Unwrought (a)	247	2 828	2 167	3 286	1 612
Poland					
Ores & concentrates	78 746	129 551	127 720	150 283	130 258
Unwrought	13 333	28 714	31 838	26 811	18 498
Unwrought alloys	13 337	11 421	13 660	11 906	8 922
Scrap	3 899	2 681	4 445	6 378	3 907
Portugal					
Unwrought	11 862	19 015	16 367	19 551	12 830
Unwrought alloys	11 573	5 778	5 054	4 617	4 018
Romania					
Ores & concentrates	150 282	137 878	173 536	161 527	12
Unwrought (a)	14 640	23 732	13 135	7 394	10 523
Slovakia					
Unwrought (a)	43 437	45 143	44 959	41 003	28 863
Slovenia					
Unwrought	15 015	17 571	16 696	14 881	16 766
Unwrought alloys	6 701	11 864	11 711	8 938	6 180

Zinc

Imports continued

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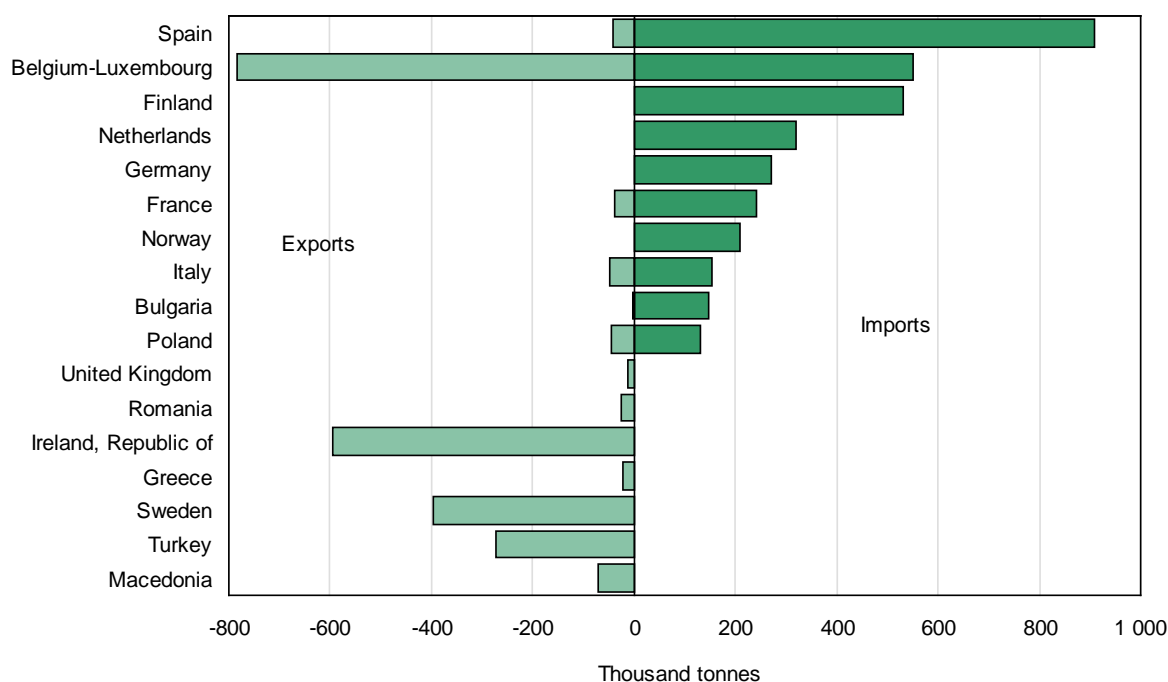
Country	2005	2006	2007	2008	2009
Spain					
Ores & concentrates	1 090 022	1 188 067	1 257 304	1 114 634	909 078
Unwrought	8 203	7 577	21 634	26 779	16 091
Unwrought alloys	17 858	18 933	17 411	15 000	9 230
Scrap	3 927	4 996	6 601	7 396	3 127
Sweden					
Unwrought	29 847	25 763	21 570	29 211	29 750
Unwrought alloys	16 812	20 325	22 600	12 059	2 691
Switzerland					
Unwrought	13 045	12 189	14 473	13 715	9 431
Unwrought alloys	2 601	2 214	2 700	2 471	1 549
Turkey					
Unwrought	141 842	397 384	136 916	147 215	137 765
Unwrought alloys	6 121	5 481	3 775	4 091	1 714
Scrap	153	3 206	1 913	1 381	181
United Kingdom					
Unwrought	135 840	119 676	122 458	119 911	84 594
Unwrought alloys	16 128	15 666	13 201	8 524	1 869

Note(s)

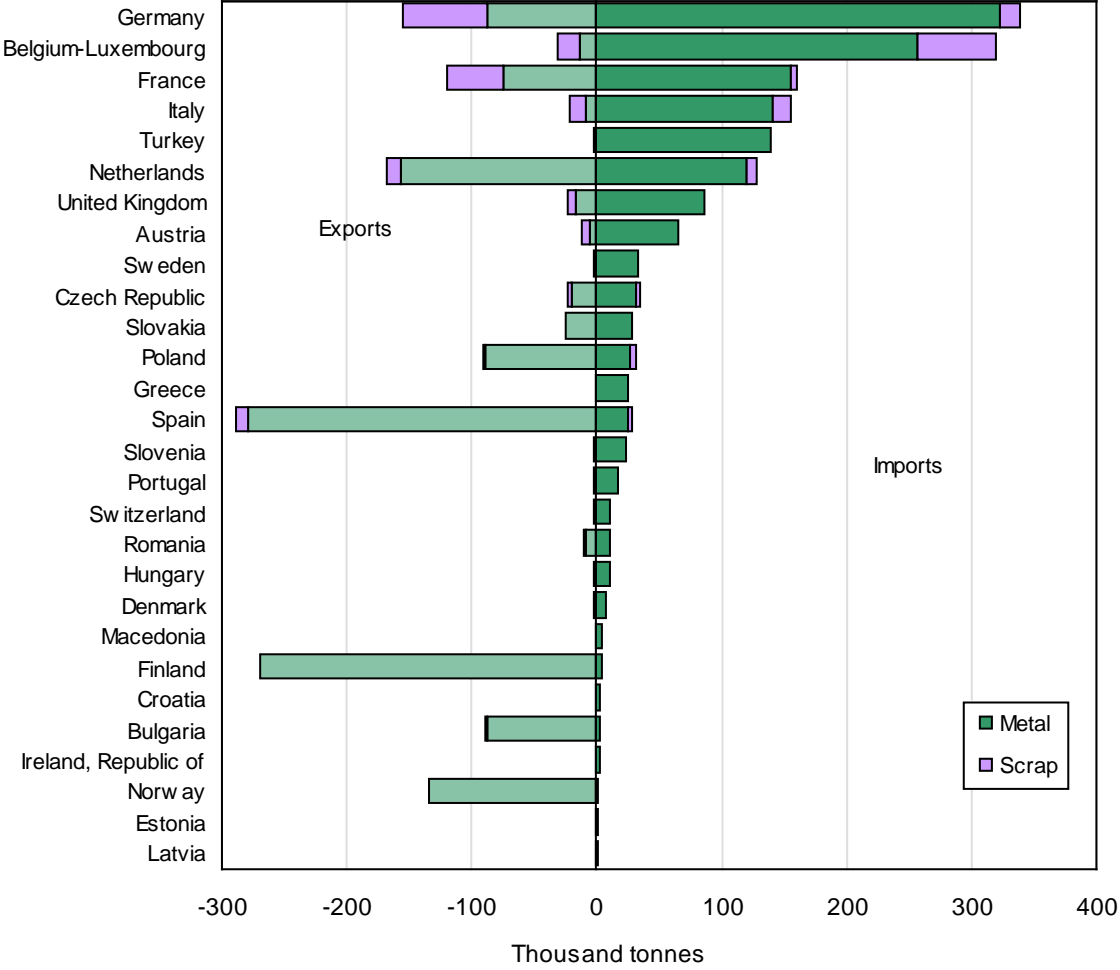
(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc.

(a) Including alloys

Zinc ore - EU33 trade in 2009



Zinc - EU33 trade in 2009



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 2009 were Australia (36 per cent) and South Africa (30 per cent).

Exports of zirconium

Country	2005	2006	2007	2008	2009
Belgium-Luxembourg					
Concentrates	22 965	27 054	23 645	16 056	28 907
Metal	222	144	251	157	125
France					
Concentrates	1 058	2 316	1 832	1 440	1 243
Germany					
Concentrates	5 211	1 643	2 057	2 799	1 562
Metal	286	434	514	625	386
Italy					
Concentrates	21 760	23 472	25 596	41 296	33 219
Metal	455	260	630	233	274
Netherlands					
Concentrates	8 178	7 391	14 539	8 223	4 639
Slovenia					
Concentrates	1 009	1 186	509	202	22
Spain					
Concentrates	9 805	9 811	11 803	14 151	13 581
Metal	820	110	200	525	746
United Kingdom					
Concentrates	699	902	1 096	716	742

Note(s)

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

Imports of zirconium

Country	2005	2006	2007	2008	2009
Austria					
Concentrates	1 200	1 285	2 054	2 163	1 298
Belgium-Luxembourg					
Concentrates	14 504	18 763	17 593	17 337	28 897
Metal	605	556	469	433	214
Bulgaria					
Concentrates	1 589	1 421	1 357	1 081	573
Czech Republic					
Concentrates	655	1 498	1 482	751	268
Metal	60	86	78	101	45
France					
Concentrates	53 701	48 973	47 719	55 030	25 087
Metal	207	378	570	456	553
Germany					
Concentrates	...	—	—	76 070	51 179
Metal	503	571	880	791	664
Greece					
Concentrates	629	466	547	429	122
Hungary					
Concentrates	3 266	...	2 427	2 439	1 265
Ireland, Republic of					
Concentrates	248	258	425	3 976	1 323

Imports of zirconium

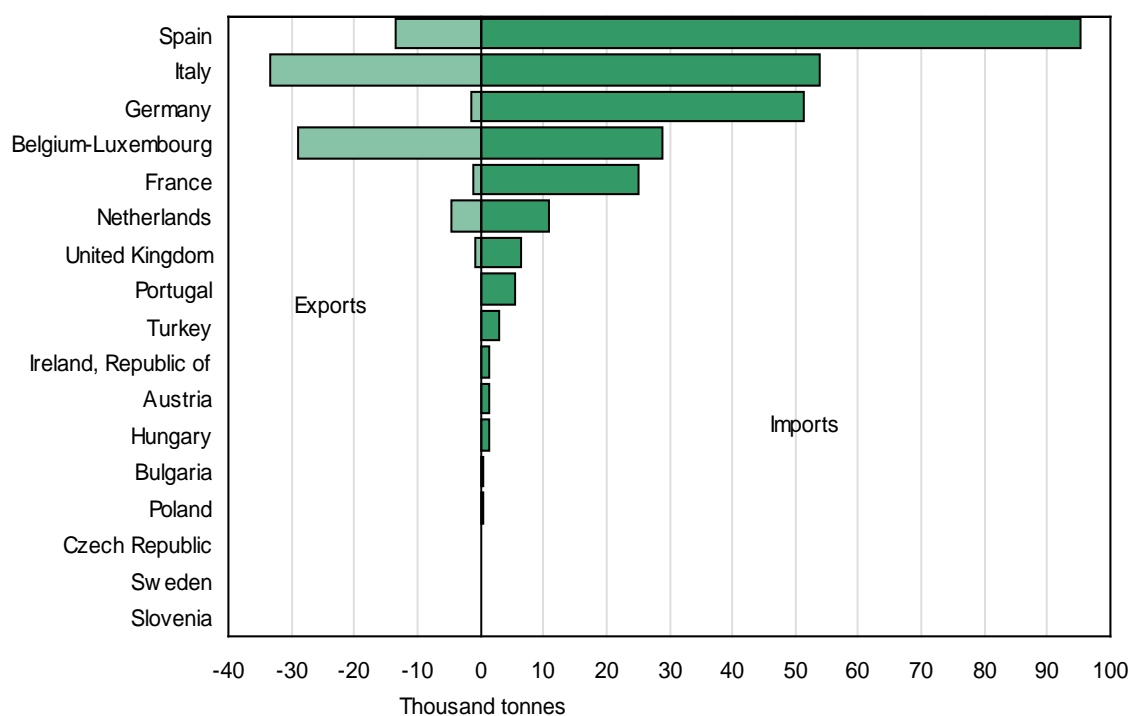
tonnes

Country	2005	2006	2007	2008	2009
Italy					
Concentrates	147 435	143 672	114 838	129 999	53 845
Metal	120	128	315	130	226
Netherlands					
Concentrates	10 975	15 948	20 462	24 694	11 027
Metal	88	123	199	240	* 70
Poland					
Concentrates	870	863	542	833	340
Portugal					
Concentrates	5 918	6 426	7 205	8 162	5 620
Romania					
Concentrates	552	766	303	437	190
Metal	22	32	16	136	301
Slovenia					
Concentrates	625	443	550	548	227
Spain					
Concentrates	153 619	149 710	138 442	152 604	95 103
Metal	56	55	65	136	83
Sweden					
Concentrates	588	750	825	832	248
Metal	91	134	219	185	218
Switzerland					
Metal	117	29	29	19	38
Turkey					
Concentrates	4 581	1 118	980	4 844	2 918
United Kingdom					
Concentrates	19 519	13 729	11 007	13 092	6 386
Metal	338	467	446	521	203

Note(s)

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

Zirconium concentrates - EU33 trade in 2009



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 (33.5 per cent of world production) was the largest in the world in 2009 and was the only EU33 producer.

Production of borates

					tonnes
Country	2005	2006	2007	2008	2009
Turkey	2 087 000	2 373 345	1 997 163	2 139 224	1 682 000

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 four countries produce nepheline syenite. Russia was the largest known producer in 2009, followed by Canada and Norway. Iran is also believed to produce nepheline syenite but accurate figures of the quantity are difficult to obtain.

Production of nepheline syenite

					tonnes
Country	2005	2006	2007	2008	2009
Norway	320 000	312 000	312 000	346 000	270 000

Perlite

- Perlite is a silicate mineral that results from the alteration of natural glass with the chemical composition of granite. Upon heating the mineral swells and dewateres — resulting in a sudden increase in volume accompanied by a decrease in density. It has remarkable thermal insulation properties, porosity, chemical stability, low flammability, high heat resistance and high sound absorption. It is chiefly used in building materials.
- More than 20 countries produce perlite. Greece is believed to be the largest perlite producer in the world, followed by China and the USA.

Production of perlite

					tonnes
Country	2005	2006	2007	2008	2009
Bulgaria	15 300	4 500	13 900	7 400	14 800
Greece	1 075 129	* 1 100 000	1 100 000	1 000 000	862 935
Hungary	69 900	71 019	67 542	132 000	82 058
Italy	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Slovakia	8 630	10 560	20 000	25 000	25 000
Turkey	156 935	* 160 000	* 160 000	* 160 000	* 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 decolouriser, 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 world producer in 2009 was Japan. In the EU33 countries, Germany and Belgium are the largest producers.

Production of selenium metal

tonnes

Country	2005	2006	2007	2008	2009
Belgium	* 200	* 200	* 200	* 200	* 200
Finland	66	70	52	65	66
Germany	* 250	* 250	* 250	* 250	* 230
Poland	82	87	85	82	80
Sweden	122	135	126	139	* 140

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 87 per cent of world production. Spain is the second largest known producer in the world, contributing seven per cent to the world total.

Production of strontium minerals

tonnes

Country	2005	2006	2007	2008	2009
Spain	336 630	280 195	142 512	138 590	57 466
Turkey	* 18 000	* 6 300	* 4 200	* 1 600	...

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. 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.
- In 2009, Kazakhstan overtook Canada to become the world's largest producer of mined uranium with a 63 per cent increase in output compared to 2008. Kazakhstan now contributes 27 per cent to the world total compared to Canada's 20 per cent and Australia's 16 per cent. In the EU33, a small amount of uranium was mined in the Czech Republic. In addition there was minor production from Romania and Germany.

Mine production of uranium

tonnes (metal content)

Country	2005	2006	2007	2008	2009
Czech Republic	420	383	322	290	286
Germany	80	65	41	* 40	* 60
Romania	* 90	* 90	* 77	* 77	* 75
EU33 Total	590	538	440	407	421
EU33 Total (U ₃ O ₈ equivalent)	696	635	519	480	497

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 was the largest in 2009 with an estimated 55 per cent of world production. Spain and Finland were the only EU33 producers, together contributing four per cent to world production.

Production of wollastonite

tonnes

Country	2005	2006	2007	2008	2009
Finland	15 950	16 200	16 364	15 600	* 16 000
Spain	* 30 000	* 30 000	10 918	10 100	7 000

Note(s)

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

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