

European Mineral Statistics



2006–10



**British
Geological Survey**
NATIONAL ENVIRONMENT RESEARCH COUNCIL

European Mineral Statistics 2006–10

A product of the World Mineral Statistics database

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Cover photograph: Talvivaara mine site, Sotkamo, Finland. Talvivaara Mining Company is an internationally significant base metals producer with its primary focus on nickel and zinc using a technology known as bioheapleaching to extract metals out of ore. Bioheapleaching makes extraction of metals from low grade ore economically viable. The Talvivaara deposits comprise one of the largest known sulphide nickel resources in Europe. The ore body is estimated to support anticipated production for several decades. Further information can be found at www.talvivaara.com Image © Talvivaara Mining Company plc

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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 statism, that is, the direction and control of their internal affairs to a much greater degree than before. From statism came the concept of statistics – the numbers collected and compiled as the basis for such action by the state. Among many other things, almost all European countries compile annual statistics of national mineral production and trade and these form the basis of this European compilation¹.

For many countries, from antiquity, the ownership of precious metals has been vested in the state or the sovereign and for the majority of European countries state ownership extends to all metals and high-value industrial minerals. Chiefly as a result, in Europe and the world as a whole, there is a direct correspondence between the unit value of a mineral commodity and the amount and accuracy of official statistical information available on it. At the extreme high end of the value range this relationship tends to break down so that data on gemstones and precious metals is less straightforward than that on base metals. However, as a rule the state does not claim ownership of low-value construction minerals, such as 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 desire of governments, everywhere, to recover costs by asking for payment for official information –

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, Montenegro and Turkey; this group of 34 countries is for convenience referred to as 'EU34'.

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 approximately 2387 million tonnes of primary aggregate production in the EU34 countries in 2010. This represents a fall of five per cent from 2508 million tonnes in 2009. The European Aggregates Association (UEPG) (www.uepg.eu) has estimated that the production of primary aggregates in only 26 European countries is higher than the figures shown here at 3262 million tonnes for 2009 (no figures for 2010 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 or 24 per cent of total UK sand and gravel production in 2010. Of this marine-dredged material 34 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 EU34 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 sea-water 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 EU34 production of selected industrial minerals as world percentages

Industrial mineral	% of world	EU34 countries with >2% of world output in 2010
Feldspar	56.3	Turkey (23.3%), Italy, France, Spain
Kaolin	32.9	Germany (17.4%), UK, Turkey, Czech Republic
Bentonite	21.4	Greece (6.2%), Turkey, Germany
Salt	21.4	Germany (6.2%), France, Netherlands, UK
Diatomite	19.0	Denmark (9.3%), France, Spain
Gypsum	18.1	Spain (4.3%), France, Turkey
Talc	16.9	Finland (6.8%), France
Magnesite	16.3	Turkey (4.6%), Austria, Slovakia, Spain
Potash	11.4	Germany (9.0%)
Mica	7.6	Finland (3%), France, Spain
Barytes	4.0	Turkey (2.6%)
Fluorspar	3.7	Spain (2.2%)

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

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.

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 (6.3 per cent of the world total in 2010), Norway for titanium (7.8 per cent) and Poland for silver (5.0 per cent), but the majority of European countries depend chiefly on imports from other continents. Between 2009 and 2010, the overall mine production for many metals produced in the EU34 increased by between 2.5 per cent (silver) and 56.9 per cent (nickel). However, there was also a decrease in the mine production of lead (down six per cent). The overall EU34 position of mine production of selected metals in 2010 is shown in Table 3.

Table 3 EU34 mine production of selected metals as world percentages.

Metal	% world	EU34 countries with >1% of world output in 2010
Silver	8.8	Poland (5.0%), Turkey, Sweden
Chromium	8.3	Turkey (6.3%), Finland
Zinc	8.0	Ireland (2.8%), Sweden, Turkey
Titanium	7.8	Norway (7.8%)
Lead	6.2	Sweden (1.6%), Poland
Copper	5.3	Poland (2.6%)
Nickel	4.4	Turkey (1.3%), Greece
Tungsten	3.4	Austria (1.6%), Portugal
Aluminium (bauxite)	1.5	–
Iron	1.4	–
Gold	1.4	–

European smelting and refining of imported ores and concentrates provides the bulk of supply for many metals. Refining in Europe of semi-processed materials from other continents is also significant. 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.

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 EU34 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 9.3 per cent of the world total for natural gas in 2010 and 5.1 per cent of petroleum. These percentages both show reductions on the 2006 figures which were 10.5 per cent and 6.4 per cent, respectively.

In 2010, Norway produced 2.7 per cent of total world output of oil and the United Kingdom produced 1.5 per cent. Production of oil in Norway has decreased by 23.3 per cent between 2006 and 2010, and in the United Kingdom by 15.3 per cent. Norway also produced 3.2 per cent of the total world output of natural gas in 2010; the Netherlands produced 2.6 per cent and the United Kingdom 1.8 per cent. While the United Kingdom's production of natural gas declined between 2006 and 2010 by 29.6 per cent, output from Norway and the Netherlands increased by 21.5 per cent and 14.5 per cent respectively.

Coal output in Europe has been declining steadily for many years as deep mines become increasingly uncompetitive with sources in other continents. In 1980 production from the present EU34 countries was in the order of 1350 million tonnes. In 2010 production from the same territories was 615 million tonnes, of which half was provided by Germany (2.6 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 2010, mine production of uranium in the EU34 countries amounted to just over 400 tonnes U₃O₈ equivalent, or 0.6 per cent of the world total, chiefly attributable to the Czech Republic. The EU34 countries occupy the top three positions for the proportion of electricity generated from nuclear power in 2010 (International Atomic Energy Agency). These countries are France, Slovakia, and Belgium with the proportions ranging from 74.12 per cent to 51.16 per cent.

The overall EU34 position with regard to production of energy minerals in 2010 is shown in Table 4.

Table 4 EU34 production of energy minerals as world percentages.

Mineral	% world	EU34 countries with > 1% of world output 2010
Natural gas	9.3	Norway (3.2%), Netherlands, United Kingdom
Coal	8.6	Germany (2.6%), Poland, Turkey
Petroleum	5.1	Norway (2.7%), UK
Uranium	0.6	-

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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, the Barytes Association and the International Fertilizer Industry Association Ltd. In a few instances, information on specific commodities has been obtained directly from company sources. The co-operation of other members of the International Consultative Group on Non-Ferrous Metal Statistics is also gratefully acknowledged.

Supplementary information is also obtained from publications dealing with a wider range of commodities such as Société de l'Industrie Minérale, *Annuaire Statistique Mondial des Minéraux et Métaux*; Mining Journal, *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; Kaolin & Plastic Clays Europe; International Iron and Steel Institute (now known as the World Steel Association); Eurofer; World Nuclear Association; Eurostat; European Aggregates Association; Energy Information Agency; Inmet Mining; Aluminium de Grece; New Boliden; Eurozinc Mining Corporation; Rio Narcea; Lundin Mining; nyrstar; Lapland Gold Miners; Outokumpu; Vereinigung der Oesterreichischen Zementindustrie, Austria; Federation de l'Industrie Cimentiere Belge, Belgium; Statistics Belgium; Belgian Steel Federation; 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; Greece Crude Petroleum; National Statistical Service of Greece; Federacciai, Italy; Unione Petrolifera, Italy; Istituto Nazionale di Statistica, Italy; Statec, Luxembourg; Centraal Bureau voor de Statistiek, Netherlands; Staatstoezicht op de Mijnen, Netherlands; Statistisk Sentralbyra, Norway; Geological Survey of Norway; Norwegian Petroleum Directorate; Instituto Nacional de Estatistica, Portugal; Statistical Office of the Republic of Slovenia; Unesid, Spain; Sveriges Geologiska Undersokning, Sweden; Jernkontoret, Sweden; Statistiska Centralbyrån, 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
BGS	British Geological Survey
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 0812 1190, 0812 1210, 0812 1230, 0812 1250 and 0812 1290
- (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 EU34 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 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, but these are not included
- (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 electro-plating anodes
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

Crude petroleum - production

- (1) The figures include natural gas liquids

Natural gas - production

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

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 - production

- (1) Concentrates produced in Spain are believed to be processed in China to recover platinum group metals

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	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel (a)	tonnes	27 281 864	29 230 545	32 440 624	30 238 150	30 182 855
Crushed rock (a)	tonnes	26 536 938	25 248 136	33 867 686	29 784 794	24 399 380
Cement						
Cement, clinker	tonnes	188 588	221 684	287 911	160 223	54 369
Cement, finished	tonnes	5 293 370	5 518 303	6 131 257	4 847 862	4 499 402
Coal						
Brown coal and lignite (b)	tonnes	7 854	—	—	—	—
Copper, refined	tonnes	72 600	81 400	106 700	96 200	113 700
Graphite (c)	tonnes	—	—	250	750	420
Gypsum						
Gypsum	tonnes	936 072	1 006 416	1 022 983	(d) 910 945	(d) 872 273
Anhydrite	tonnes	135 380	57 428	64 276	...	...
Iron ore (e)	tonnes	2 092 996	2 152 825	2 032 671	2 002 131	2 068 853
Pig iron	tonnes	5 547 000	5 908 000	5 795 000	4 353 000	5 621 000
Crude steel	tonnes	7 129 000	7 577 000	7 594 000	5 662 000	7 206 000
Ferro-alloys						
Ferro-molybdenum	tonnes	5 000	5 000	4 500	4 000	4 000
Ferro-nickel	tonnes	2 500	3 000	2 000	2 500	2 500
Ferro-vanadium	tonnes	6 250	6 500	6 300	6 200	8 000
Kaolin	tonnes	17 431	16 929	16 460	18 148	18 914
Lead, refined	tonnes	* 22 000	* 22 000	* 22 000	* 22 000	* 22 000
Magnesite	tonnes	769 188	811 556	837 476	544 716	757 063
Nickel, smelter/refinery	tonnes	900	900	500	700	* 700
Crude petroleum	tonnes	856 270	853 548	861 639	905 031	875 369
Natural gas	million m ³	1 765	1 835	1 544	1 559	1 713
Salt						
Rock salt	tonnes	1 336	1 172	503	50	95
Salt in brine	tonnes	764 103	735 724	866 674	1 035 044	1 071 842
Sulphur and pyrites						
Recovered (f)	tonnes (sulphur content)	50 097	50 501	48 024	48 624	40 512
Talc	tonnes	159 447	153 409	154 577	111 388	138 367
Tungsten, mine	tonnes (metal content)	1 153	1 117	1 122	887	975

Note(s)

(1) Austria is also believed to produce arsenic and bentonite

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

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	3 086 027	3 394 988	3 130 358	2 634 211	2 828 621
Aluminium and bauxite						
Bauxite	tonnes	765	1 225	1 202	546	1
Unwrought	tonnes	7 630	8 294	4 120	2 332	3 236
Unwrought alloys	tonnes	119 058	111 571	109 757	98 966	151 559
Scrap	tonnes	80 200	91 960	90 825	118 028	122 057
Barytes	tonnes	5 830	3 023	2 440	1 276	345
Bentonite and fuller's earth						
Bentonite	tonnes	8 112	5 589	5 225	4 350	3 447
Bismuth						
Metal	tonnes	0	12	1	1	8

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Cement						
Cement clinkers	tonnes	136 381	189 450	243 906	146 991	46 560
Portland cement	tonnes	201 687	314 112	344 338	272 440	213 082
Other cement	tonnes	38 926	59 361	82 570	56 934	50 592
Chromium						
Ores and concentrates	tonnes	136	491	833	333	4
Metal	tonnes	11 770	14 739	6 596	5 845	10 245
Cobalt						
Metal	tonnes	10	19	31	60	72
Copper						
Matte and cement	tonnes	651	2 323	719	6 218	960
Unwrought	tonnes	84 104	82 985	114 978	115 697	142 768
Unwrought alloys	tonnes	2 509	1 239	938	1 058	804
Scrap	tonnes	39 169	38 642	35 582	50 748	52 702
Diamond						
Unsorted	Carats	£211 000	£85 000	£71 000	£189 000	£729 000
Gem, cut	Carats	£3 157 000	£2 792 000	£5 778 000	£4 053 000	£3 564 000
Dust	Carats	£45 000	£115 000	£165 000	£260 000	£225 000
Diatomite	tonnes	4 171	4 455	3 043	3 286	3 467
Feldspar	tonnes	17 977	15 058	15 194	14 025	13 474
Gold						
Metal	kilograms	11 100	14 900	18 700	18 800	27 800
Waste and scrap	kilograms	600	17 300	2 200	2 700	5 900
Graphite	tonnes	7 416	7 460	8 853	6 260	9 518
Gypsum						
Crude	tonnes	30 002	89 128	26 402	20 694	19 124
Calcined	tonnes	99 013	121 473	89 906	78 839	55 927
Iodine	kilograms	600	300	100	300	200
Iron, steel and ferro-alloys						
Pig iron	tonnes	5 695	6 958	7 539	2 354	4 476
Ferro-alloys	tonnes	10 218	9 100	7 541	5 953	2 618
Silicon metal	tonnes	1 884	5 166	5 412	4 795	7 403
Ingots, blooms, billets	tonnes	303 284	286 765	284 063	187 410	190 343
Scrap	tonnes	1 140 091	1 279 775	1 351 725	1 067 926	1 034 398
Kaolin	tonnes	3 649	2 292	2 445	8 954	27 908
Lead						
Unwrought	tonnes	13 129	13 629	13 844	12 512	16 427
Scrap	tonnes	1 027	1 018	600	2 173	871
Lithium						
Carbonate	tonnes	54	45	28	10	170
Magnesite and magnesia						
Magnesite	tonnes	1 231	760	602	1 746	989
Magnesia	tonnes	45 311	57 964	28 779	26 716	39 589
Mercury	kilograms	214	5 000	200	2 000	(a)* 3 300
Mica	tonnes	4 102	4 234	4 274	3 328	4 303
Molybdenum						
Metal (a)	tonnes	* 3 000	* 3 500	* 3 000	* 1 800	* 2 300
Nickel						
Unwrought (b)	tonnes	197	333	225	265	208
Scrap	tonnes	2 337	2 208	1 910	1 775	1 606
Natural gas	tonnes	1 645 995	2 688 210	2 812 303	2 164 960	2 645 056
Phosphate rock	tonnes	942	—	...	621	6
Platinum metals						
Platinum and platinum metals	kilograms	£14 817 000	£30 801 000	£52 298 000	£38 485 000	£83 434 000
Waste and scrap	kilograms	£281 000	£621 000	£621 000	£295 000	£1 070 000
Potash						
Potassic fertilisers	tonnes	8 584	13 595	14 613	13 843	20 259
Rare earths						
Cerium compounds	tonnes	1 569	2 596	2 702	2 035	1 936
Other rare earth compounds	tonnes	5 911	9 039	8 508	8 437	8 658
Metals	tonnes	333	359	373	244	258
Salt	tonnes	202 465	235 775	388 681	491 981	500 126
Silver						
Metal	kilograms	120 400	115 100	95 000	98 600	100 300

Austria

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Sulphur and pyrites						
Pyrites	tonnes	2 881	2 645	2 672	1 740	2 794
Sulphur	tonnes	225	3 006	3 292	472	90
Sulphur, sublimed and precipitated	tonnes	4 881	492	3 906	7 423	1 145
Talc	tonnes	165 923	153 457	135 390	106 423	106 271
Tantalum and niobium						
Tantalum	tonnes	—	13	20	35	27
Tin						
Unwrought (b)	tonnes	110	167	177	71	60
Scrap	tonnes	125	103	141	53	49
Titanium						
Metal	tonnes	513	576	717	203	129
Oxides	tonnes	3 976	4 885	6 444	5 344	5 956
Tungsten						
Metal (a)	tonnes	* 2 000	* 1 600	* 1 600	* 4 300	* 3 000
Zinc						
Unwrought (b)	tonnes	19 981	14 682	13 794	5 703	8 532
Scrap	tonnes	4 329	2 132	8 176	6 052	5 757

Note(s)

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

(b) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 622 855	3 961 223	3 447 013	2 924 359	2 284 169
Aluminium and bauxite						
Bauxite	tonnes	25 291	16 717	21 727	2 370	8 489
Alumina	tonnes	45 777	49 728	55 639	27 193	47 681
Alumina hydrate	tonnes	12 821	16 056	20 205	13 219	12 914
Unwrought	tonnes	113 047	140 286	154 792	103 145	177 751
Unwrought alloys	tonnes	235 053	250 209	218 902	175 583	239 493
Scrap	tonnes	157 256	161 995	170 315	168 055	268 845
Antimony						
Metal	tonnes	51	104	63	64	37
Oxide	tonnes	271	277	245	192	249
Barytes	tonnes	12 550	4 898	6 234	2 733	3 115
Bentonite and fuller's earth						
Bentonite	tonnes	60 667	58 727	68 703	66 575	90 229
Fuller's earth	tonnes	427	...	...	...	...
Bismuth						
Metal	tonnes	114	42	148	80	130
Bromine	kilograms	228 600	463 900	488 000	65 300	318 400
Cement						
Cement clinkers	tonnes	487 406	520 714	456 127	404 998	407 616
Portland cement	tonnes	686 652	626 723	753 529	639 545	637 550
Other cement	tonnes	31 100	39 568	40 766	52 715	71 535
Chromium						
Ores and concentrates	tonnes	37 326	39 071	42 008	25 891	54 945
Metal	tonnes	8 879	14 480	8 006	4 325	6 109
Coal						
Hard coal (a)	tonnes	3 912 731	4 509 917	4 118 906	4 082 877	3 618 128
Lignite	tonnes	2 294	53 331	46 392	72 734	68 777
Briquettes	tonnes	101 162	13 045	26 474	30 538	34 999
Cobalt						
Metal	tonnes	438	631	740	331	653
Oxides	tonnes	7	4	40	5	10
Copper						
Unwrought, unrefined	tonnes	26 508	26 678	39 590	24 445	36 218
Unwrought, refined	tonnes	29 298	20 614	8 855	4 868	10 361
Unwrought alloys	tonnes	2 979	2 485	1 866	1 617	1 412
Scrap	tonnes	88 684	91 043	113 109	134 063	145 903

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Diamond						
Unsorted	carats	£978 000	£957 000	£1 648 000	£543 000	£729 000
Gem, cut	carats	£5 892 000	£6 405 000	£8 881 000	£9 795 000	£9 838 000
Industrial	carats	£841 000	£884 000	£473 000	£313 000	£193 000
Dust	carats	28 000 000	26 000 000	33 000 000	17 000 000	30 000 000
Diatomite	tonnes	11 693	13 710	12 561	16 327	13 324
Feldspar	tonnes	2 220	3 816	1 928	1 933	2 433
Fluorspar	tonnes	2 722	2 517	3 405	1 956	3 490
Gold						
Metal	kilograms	9 300	30 900	72 300	86 500	56 600
Waste and scrap	kilograms	300	100	400	1 700	1 400
Graphite	tonnes	10 704	17 757	30 863	4 622	18 501
Gypsum						
Crude	tonnes	11 057	14 651	10 118	12 098	22 432
Calcined	tonnes	61 713	97 281	67 712	73 588	70 850
Iodine	kilograms	173 600	145 500	139 700	204 100	213 000
Iron ore (b)	tonnes	8 412 038	9 061 870	7 996 632	6 095 762	9 309 860
Iron, steel and ferro-alloys						
Pig iron	tonnes	40 133	69 614	43 663	30 084	25 355
Sponge and powder	tonnes	20 542	31 775	56 471	13 980	13 537
Ferro-chrome	tonnes	34 196	49 977	47 748	20 400	29 355
Ferro-silico-magnesium	tonnes	522	1 746	2 021	1 843	3 681
Ferro-manganese	tonnes	29 385	38 857	36 491	18 962	17 840
Ferro-silico-manganese	tonnes	22 456	30 340	22 322	17 927	22 976
Ferro-molybdenum	tonnes	1 632	1 370	1 552	801	742
Ferro-niobium	tonnes	955	956	1 125	665	1 061
Ferro-phosphorus	tonnes	1 520	1 692	2 011	1 095	1 232
Ferro-silicon	tonnes	25 609	26 180	27 850	12 825	27 063
Ferro-titanium and ferro-silico-titanium	tonnes	1 081	793	879	388	471
Ferro-tungsten and ferro-silico-tungsten	tonnes	677	796	1 277	208	552
Other ferro-alloys	tonnes	1 711	193	350	33	166
Silicon metal	tonnes	12 937	16 581	15 601	7 288	11 497
Ingots, blooms, billets	tonnes	132 901	208 910	191 426	46 762	159 527
Scrap	tonnes	1 089 942	1 371 393	1 629 170	1 196 327	991 574
Kaolin	tonnes	222 007	218 813	226 682	192 860	194 396
Lead						
Unwrought	tonnes	29 184	27 015	27 475	21 580	19 391
Lithium						
Carbonate	tonnes	199	248	333	327	402
Magnesite and magnesia						
Magnesite	tonnes	1 653	933	2 319	937	848
Magnesia	tonnes	213 760	317 952	248 037	21 708	272 232
Manganese						
Ores and concentrates	tonnes	368	383	215	184	152
Metal	tonnes	12 059	17 543	14 275	11 512	16 696
Mercury	kilograms	2 662	5 322	587	360	383
Mica	tonnes	615	722	857	492	874
Molybdenum						
Metal	tonnes	1 342	1 243	1 502	430	548
Nickel						
Mattes, sinters etc	tonnes	684	443	476	216	255
Unwrought (c)	tonnes	7 599	7 874	10 511	4 142	6 894
Scrap	tonnes	670	605	1 164	367	440
Oxides	tonnes	195	78	82	11	15
Crude petroleum	tonnes	7 698 169	7 645 010	7 945 639	7 428 183	6 770 069
Natural gas	tonnes	7 593 331	6 988 269	7 136 000	7 566 509	8 697 934
Phosphate rock	tonnes	94 630	106 018	(d)* 158 000	(d)* 58 000	(d)* 160 000
Platinum metals						
Platinum and platinum metals	kilograms	8 400	1 100	700	1 600	1 400
Potash						
Fertiliser salts	tonnes	23 423	...	...	...	...
Sulphate	tonnes	17 797	13 026	10 432	4 241	15 074
Chloride	tonnes	133 514	123 747	119 347	28 000	105 299
Other potassic fertilisers	tonnes	3 199	26 199	25 862	9 139	18 201

Austria

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Rare earths						
Cerium compounds	tonnes	2 009	3 431	3 487	1 985	1 766
Other rare earth compounds	tonnes	2 618	3 762	3 589	2 471	3 375
Metals	tonnes	403	512	561	269	550
Salt	tonnes	429 515	143 538	105 335	230 979	293 799
Sillimanite minerals	tonnes	2 100	3 160	2 639	1 353	2 089
Silver						
Metal	kilograms	168 300	151 600	441 900	431 500	481 800
Sulphur and pyrites						
Pyrites	tonnes	3 537	3 809	3 754	1 614	3 154
Sulphur	tonnes	70 350	84 659	89 038	68 881	75 065
Sulphur, sublimed and precipitated	tonnes	10 850	5 556	17 842	14 961	15 331
Talc	tonnes	49 900	58 500	68 797	37 648	74 554
Tantalum and niobium						
Tantalum	tonnes	0	70	—	—	17
Tin						
Unwrought (c)	tonnes	2 177	2 486	2 679	1 915	2 923
Titanium						
Titanium minerals	tonnes	575	451	520	362	477
Metal	tonnes	1 873	3 851	2 455	1 346	1 381
Oxides	tonnes	27 485	26 856	30 861	28 258	28 288
Tungsten						
Metal	tonnes	670	548	435	369	632
Carbide	tonnes	...	...	...	568	1 268
Vanadium						
Vanadiferous residues	tonnes	* 29 000	* 37 000	* 36 000	* 35 000	* 46 000
Ores and concentrates	tonnes	792	543	460	...	...
Zinc						
Unwrought	tonnes	61 856	65 391	61 877	37 864	37 560
Unwrought alloys	tonnes	41 002	33 939	33 911	27 886	34 411
Zirconium						
Concentrates	tonnes	1 285	2 054	2 163	1 298	1 680

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	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel (a) (b)	tonnes	8 636 966	* 8 600 000	* 8 600 000	* 8 000 000	* 8 000 000
Crushed rock (a) (c)	tonnes	39 937 651	* 43 000 00	* 42 000 00	* 43 000 00	* 43 000 000
White arsenic	tonnes	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Cement						
Cement, clinker	tonnes	...	...	...	1 123 722	858 871
Cement, finished	tonnes	6 965 000	6 930 000	7 135 000	6 113 000	5 990 000
Cobalt metal (d)	tonnes	2 840	2 825	3 020	2 150	2 600
Copper, refined	tonnes	378 600	394 000	395 800	373 700	389 000
Pig iron	tonnes	7 516 000	6 577 000	6 977 000	3 087 000	* 4 000 000
Crude steel	tonnes	11 631 000	10 692 000	10 673 000	5 635 000	7 973 000
Kaolin	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Lead, refined	tonnes	101 000	117 000	104 000	109 000	121 000
Selenium metal	tonnes	* 200	* 200	* 200	* 200	* 200
Tin, smelter	tonnes	8 000	8 400	9 200	8 700	9 900
Slab zinc	tonnes	238 000	254 000	251 000	137 000	281 000

Note(s)

(1) Belgium is also believed to produce sulphur

- (a) Deliveries
- (b) Includes construction sand and silica sand. Excludes gravel
- (c) Includes gravel
- (d) Some metal production in China is recorded in Belgium

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	15 452 435	15 588 032	15 097 819	13 354 957	12 427 043
Aluminium and bauxite						
Bauxite	tonnes	53 680	75 904	53 444	44 530	48 683
Unwrought	tonnes	210 559	164 800	160 684	121 708	257 888
Unwrought alloys	tonnes	29 870	37 009	32 273	22 665	14 204
Alumina	tonnes	18 151	13 629	4 858	5 666	7 516
Scrap	tonnes	186 614	188 642	179 137	219 846	274 819
Antimony						
Ores and concentrates	tonnes	360	301	228	530	433
Metal	tonnes	1 580	974	494	533	776
Oxide	tonnes	12 661	11 643	9 636	8 811	10 599
Arsenic						
Metallic arsenic	tonnes	2 542	117	77	42	114
Barytes	tonnes	19 004	506	1 381	2 638	3 216
Bentonite and fuller's earth						
Bentonite	tonnes	32 407	18 504	34 034	36 263	28 632
Bismuth						
Metal	tonnes	...	355	162	413	1
Bromine	kilograms	20 103 000	17 271 400	20 752 000	17 466 300	12 619 000
Cadmium						
Metal	tonnes	298	181	442	452	459
Oxide	tonnes	5 283	6 160	4 677	4 033	4 413
Cement						
Cement clinkers	tonnes	544 183	916 787	893 494	936 451	582 766
Portland cement	tonnes	1 811 884	2 008 842	1 960 360	1 722 252	1 676 150
Other cement	tonnes	609 236	575 332	556 870	417 798	410 909
Chromium						
Ores and concentrates	tonnes	14 485	11 339	48 086	15 562	18 415
Metal	tonnes	520	635	772	1 226	1 311

Belgium

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Coal						
Anthracite	tonnes	1 521 523	1 454 115	1 400 377	675 097	1 652 015
Other coal	tonnes	3 734 518	3 670 706	4 416 217	4 640 602	4 211 655
Lignite	tonnes	552	130	10 581	7 267	18 781
Briquettes	tonnes	7 923	6 812	11 331	11 452	18 899
Cobalt						
Ore	tonnes	197	1 204	1 112	1 227	633
Metal (a)	tonnes	* 5 800	* 21 600	* 7 000	* 4 700	* 4 400
Copper						
Ores and concentrates	tonnes	1 778	1 061	2 155	4 594	4 549
Matte and cement	tonnes	1 026	1 104	4 139	2 432	6 935
Unwrought, unrefined	tonnes	8 833	10 730	10 533	11 570	42 836
Unwrought, refined	tonnes	236 804	199 650	257 907	248 500	189 253
Unwrought alloys	tonnes	13 420	14 593	10 954	9 253	12 116
Scrap	tonnes	163 418	188 318	162 090	110 355	141 380
Diamond						
Gem, rough	Carats	128 000 000	135 000 000	99 500 000	85 500 000	113 000 000
Gem, cut	Carats	4 500 000	8 001 010	5 950 000	5 178 000	6 034 000
Industrial	Carats	...	1 000 000	500 000	1 670 000	3 320 000
Dust	Carats	35 500 000	27 000 000	23 000 000	18 000 000	31 500 000
Diatomite	tonnes	1 949	1 140	2 612	1 907	3 004
Feldspar	tonnes	22	190	994	1 117	64
Fluorspar	tonnes	110 965	105 822	156 066	84 491	122 483
Gold						
Metal	kilograms	21 637	24 697	24 538	25 683	22 842
Waste and scrap	kilograms	438 000	128 400	134 500	29 100	173 700
Graphite	tonnes	460	438	3 815	2 634	993
Gypsum						
Crude	tonnes	62 303	54 953	89 626	113 954	92 533
Calcined	tonnes	4 707	3 039	3 817	1 823	177 046
Iodine	kilograms	3 272 600	2 633 100	3 560 100	2 582 300	3 989 500
Iron ore	tonnes	43 555	41 440	85 701	178 567	366 331
Iron, steel and ferro-alloys						
Pig iron	tonnes	230 490	275 388	283 034	160 120	254 854
Sponge and powder	tonnes	19 750	36 997	20 732	14 655	35 395
Ferro-chrome	tonnes	38 401	54 201	38 927	20 403	25 965
Ferro-silico-chrome	tonnes	17 169	15 141	12 463	15 645	5 849
Ferro-manganese	tonnes	7 696	16 124	24 024	9 915	26 544
Ferro-silico-manganese	tonnes	41 422	52 431	40 777	31 374	48 652
Ferro-molybdenum	tonnes	22 679	20 153	17 759	16 396	19 593
Ferro-silicon	tonnes	38 690	68 383	54 905	47 214	23 071
Other ferro-alloys	tonnes	6 411	8 732	5 401	2 433	2 502
Silicon metal	tonnes	6 765	5 869	6 673	5 954	8 522
Ingots, blooms, billets	tonnes	859 248	1 008 252	908 563	279 680	487 535
Scrap	tonnes	3 052 438	2 957 464	3 250 800	3 245 159	3 754 403
Kaolin	tonnes	628 479	611 902	1 030 076	783 512	523 697
Lead						
Ores and concentrates	tonnes	113 576	96 059	114 105	148 562	101 160
Unwrought	tonnes	98 077	111 338	95 878	108 442	145 571
Scrap	tonnes	15 071	19 974	18 336	21 962	21 479
Lithium						
Oxides	tonnes	1 236	1 370	1 281	781	2 284
Carbonate	tonnes	5 107	4 915	3 567	3 042	4 539
Magnesite and magnesia						
Magnesite	tonnes	1 520	1 761	1 911	876	1 235
Magnesia	tonnes	75 011	64 293	81 909	59 644	96 513
Manganese						
Ores and concentrates	tonnes	5 138	15 819	8 578	5 192	4 444
Metal	tonnes	7 045	4 060	1 947	714	1 185
Mercury	kilograms	42 300	3 300	110 800	1 400	11 500
Mica	tonnes	3 225	3 226	2 127	1 562	1 590
Molybdenum						
Ores and concentrates	tonnes	24 320	22 340	11 314	15 581	24 396
Metal	tonnes	194	556	243	105	371
Oxides	tonnes	905	829	379	91	83

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Nickel						
Mattes, sinters etc	tonnes	559	68	115	921	697
Ores and concentrates	tonnes	877	1 423	2 750	1 212	724
Unwrought	tonnes	14 324	15 642	13 298	11 883	9 271
Unwrought alloys	tonnes	1 994	2 401	2 152	2 479	1 357
Scrap	tonnes	3 656	4 954	2 872	6 883	3 443
Oxides	tonnes	685	476	1 196	834	221
Crude petroleum	tonnes	2 833 897	2 422 211	2 496 349	2 390 390	2 593 653
Natural gas	tonnes	39 448 874	20 807 227	59 248 950	7 659 165	11 792 847
Phosphate rock	tonnes	82 232	115 628	84 619	15 792	30 744
Platinum metals						
Platinum and platinum metals	kilograms	5 600	5 800	8 400	10 700	14 300
Waste and scrap	kilograms	934 000	592 300	649 800	315 200	497 000
Potash						
Chloride	tonnes	102 342	58 108	10 631	58 784	64 018
Other potassic fertilisers	tonnes	10 476	590	276	136	398
Rare earths						
Metals	tonnes	444	253	299	273	476
Rare earth compounds	tonnes	302	802	408	335	332
Salt	tonnes	94 195	55 134	61 012	125 255	288 679
Sillimanite minerals	tonnes	48 825	47 141	62 423	39 809	53 940
Silver						
Ores and concentrates	kilograms	8 000	47 600	33 100	6 200	12 300
Metal	kilograms	872 103	31 000	41 900	69 900	21 800
Sulphur and pyrites						
Sulphur	tonnes	38 494	18 391	75 305	74 232	21 533
Sulphur, sublimed and precipitated	tonnes	465	531	368	345	193
Talc	tonnes	144 081	165 105	139 619	112 983	128 526
Tantalum and niobium						
Tantalum	tonnes	—	3	26	2	4
Tin						
Concentrates	tonnes	118	68	161	42	127
Unwrought	tonnes	1 633	2 734	7 274	4 753	5 114
Unwrought alloys	tonnes	7 421	7 072	2 448	5 000	6 236
Scrap	tonnes	216	147	233	127	207
Titanium						
Titanium minerals	tonnes	100 498	129 501	100 134	58 654	106 478
Metal	tonnes	1 490	2 070	1 157	1 087	895
Oxides	tonnes	401 614	422 885	401 906	369 495	435 415
Titanium slag	tonnes	20 830	3 209	5 085	...	...
Tungsten						
Metal	tonnes	485	381	405	422	723
Carbide	tonnes	62	54	36	32	92
Vanadium						
Ores and concentrates	tonnes	791	346	327	131	...
Pentoxide	tonnes	13	10	8	47	80
Zinc						
Ores and concentrates	tonnes	540 809	479 796	733 794	785 125	749 582
Unwrought	tonnes	13 275	22 015	8 359	13 590	155 654
Scrap	tonnes	57 850	40 866	15 585	16 644	14 540
Zirconium						
Concentrates	tonnes	27 054	23 645	16 056	28 907	17 417
Metal	tonnes	144	250	157	125	187

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	22 303 782	21 959 821	25 172 064	22 175 332	22 484 726
Aluminium and bauxite						
Bauxite	tonnes	59 874	85 954	88 892	40 837	75 600
Alumina	tonnes	28 030	27 079	13 959	7 265	19 028
Alumina hydrate	tonnes	45 723	45 870	34 834	29 635	34 978
Unwrought	tonnes	451 309	437 146	319 471	322 792	517 946
Unwrought alloys	tonnes	286 345	317 701	236 550	126 490	193 103
Scrap	tonnes	197 942	193 852	196 947	204 621	228 517
Antimony						
Metal	tonnes	11 543	11 904	8 837	7 511	10 280
Oxide	tonnes	2 524	2 218	801	624	904
Arsenic						
Metallic arsenic	tonnes	105	466	65	17	114
Asbestos						
Unmanufactured	tonnes	1	120	6	166	0
Barytes	tonnes	7 953	6 229	5 959	4 490	5 637
Bentonite and fuller's earth						
Bentonite	tonnes	48 870	42 671	74 216	62 885	72 971
Fuller's earth	tonnes	7 035	...	...	...	...
Bismuth						
Metal	tonnes	109	111	190	9	1
Bromine	kilograms	24 553 300	21 768 500	26 540 000	20 618 700	18 693 500
Cadmium						
Metal	tonnes	3 948	5 038	5 511	3 439	6 456
Cement						
Cement clinkers	tonnes	545 575	746 734	627 133	684 634	740 528
Portland cement	tonnes	897 314	860 913	954 591	819 923	1 030 282
Other cement	tonnes	277 825	368 325	292 741	252 247	172 609
Chromium						
Ores and concentrates	tonnes	22 053	20 761	56 183	19 050	25 350
Metal	tonnes	1 265	1 177	1 097	871	1 593
Coal						
Anthracite	tonnes	2 608 840	2 822 426	3 964 878	1 436 499	2 660 267
Other coal	tonnes	10 534 424	9 620 488	10 171 283	5 807 413	6 851 382
Lignite	tonnes	279 982	272 708	365 152	256 167	362 257
Briquettes	tonnes	29 848	25 140	20 943	31 346	27 379
Cobalt						
Ore	tonnes	107	121	185	272	156
Metal	tonnes	1 374	275	255	249	222
Copper						
Ores and concentrates	tonnes	17 263	21 137	12 039	17 378	10 554
Matte and cement	tonnes	1 111	6 310	4 482	36 352	29 857
Unwrought, unrefined	tonnes	267 505	224 439	206 660	212 932	191 159
Unwrought, refined	tonnes	21 817	28 695	54 380	79 524	61 447
Unwrought alloys	tonnes	1 082	2 692	1 749	2 669	4 917
Scrap	tonnes	300 259	312 885	249 718	215 202	272 816
Diamond						
Unsorted	carats	775 000	854 021	526 381	495 270	462 450
Gem, rough	carats	67 180 000	63 500 000	55 000 000	44 000 000	63 000 000
Gem, cut	carats	6 810 000	3 000 000	4 500 000	500 000	3 000 000
Industrial	carats	12 300 000	7 500 000	8 000 000	3 500 000	3 000 000
Dust	carats	58 220 000	17 000 000	63 000 000	35 000 000	61 000 000
Diatomite	tonnes	7 450	8 483	8 353	6 414	11 813
Feldspar	tonnes	21 482	25 951	34 837	27 113	24 495
Fluorspar	tonnes	123 392	129 159	169 219	91 928	134 266
Gold						
Metal	kilograms	11 848	8 100	15 600	13 100	10 100
Waste and scrap	kilograms	147 094	361 400	(a)* 61 400	(a)* 115 800	(a)* 339 000
Graphite	tonnes	1 836	2 309	3 624	5 048	7 243
Gypsum						
Crude	tonnes	811 923	1 118 068	1 231 279	702 104	616 338
Calcined	tonnes	499 433	490 242	505 792	424 465	396 873
Iodine	kilograms	3 513 105	2 774 500	3 586 200	3 189 200	4 087 700
Iron ore (b)	tonnes	11 387 178	9 583 816	12 329 730	3 278 482	7 567 498

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	560 116	551 990	547 962	281 872	331 652
Sponge and powder	tonnes	103 154	33 504	22 005	19 389	39 503
Ferro-chrome	tonnes	342 280	452 116	378 017	185 381	263 715
Ferro-silico-chrome	tonnes	19 190	17 149	15 483	—	1 950
Ferro-silico-magnesium	tonnes	2 040	11 673	9 505	4 655	9 031
Ferro-manganese	tonnes	54 402	62 712	83 610	21 327	48 471
Ferro-silico-manganese	tonnes	69 526	101 380	63 577	36 931	72 195
Ferro-molybdenum	tonnes	5 929	5 405	2 339	2 215	2 160
Ferro-nickel	tonnes	73 384	90 808	89 430	46 248	48 017
Ferro-niobium	tonnes	936	2 675	1 530	1 089	1 890
Ferro-phosphorus	tonnes	1 607	2 116	10 421	3 124	2 612
Ferro-silicon	tonnes	109 389	146 267	118 585	62 888	92 785
Ferro-titanium and ferro-silico-titanium	tonnes	3 016	3 522	5 572	2 161	2 926
Other ferro-alloys	tonnes	7 225	528	494	8 184	443
Silicon metal	tonnes	20 116	17 236	20 015	18 995	23 566
Ingots, blooms, billets	tonnes	2 876 977	2 711 671	2 536 024	1 966 055	2 554 975
Scrap	tonnes	4 297 928	4 279 076	4 214 915	3 678 867	4 726 992
Kaolin	tonnes	868 255	853 701	1 465 754	905 784	1 001 057
Lead						
Ores and concentrates	tonnes	120 136	108 164	97 474	192 496	169 356
Unwrought	tonnes	15 081	36 620	30 413	18 121	14 467
Scrap	tonnes	41 070	54 915	25 873	34 085	31 992
Lithium						
Oxides	tonnes	1 201	1 784	1 851	1 179	2 410
Carbonate	tonnes	5 357	5 895	4 414	3 410	4 183
Magnesite and magnesia						
Magnesite	tonnes	3 872	3 148	2 357	1 412	3 820
Magnesia	tonnes	152 330	101 887	141 185	104 577	80 845
Manganese						
Ores and concentrates	tonnes	65 462	79 022	83 909	61 980	49 731
Metal	tonnes	10 113	6 403	4 423	3 076	4 377
Mercury	kilograms	44 809	7 800	133 100	15 700	57 200
Mica						
Unmanufactured	tonnes	470	417	2 155	3 454	2 636
Ground	tonnes	2 646	3 461	5 409	3 507	4 086
Waste	tonnes	...	4 364	2 067	45	8
Molybdenum						
Ores and concentrates	tonnes	47 122	43 932	37 964	37 101	46 899
Metal	tonnes	491	752	358	344	142
Oxides	tonnes	2 618	2 796	2 075	968	694
Nickel						
Mattes, sinters etc	tonnes	203	1 194	1 250	499	330
Ores and concentrates	tonnes	533	564	283	419	764
Unwrought	tonnes	51 130	37 466	29 492	12 037	15 052
Unwrought alloys	tonnes	483	403	723	1 915	469
Scrap	tonnes	271	9 946	566	288	918
Oxides	tonnes	349	241	618	565	700
Crude petroleum	tonnes	33 843 960	34 847 065	35 556 835	32 376 828	35 234 358
Natural gas	tonnes	12 961 751	11 194 656	11 419 294	14 431 349	14 144 704
Phosphate rock	tonnes	1 299 125	1 512 059	1 458 207	579 326	1 114 210
Platinum metals						
Platinum and platinum metals	kilograms	6 337	500	300	1 200	1 000
Potash						
Fertiliser salts	tonnes	2 628	...	...	...	...
Sulphate	tonnes	124 454	128 173	175 205	73 074	129 152
Chloride	tonnes	999 362	912 264	912 154	428 365	1 173 213
Other potassic fertilisers	tonnes	6 667	10 275	10 125	7 668	13 668
Rare earths						
Metals	tonnes	443	297	259	323	411
Cerium compounds	tonnes	280	489	258	419	323
Other rare earth compounds	tonnes	138	353	142	292	172
Ferro-cerium and other pyrophoric alloys	tonnes	5	2	3	62	2
Salt	tonnes	2 275 674	1 209 879	1 174 539	1 319 896	1 751 650
Sillimanite minerals	tonnes	50 726	52 898	68 985	40 981	55 070

Belgium

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Silver						
Ores and concentrates	kilograms	536 600	195 900	253 700	1 567 600	6 000 300
Metal	kilograms	258 700	418 100	351 300	225 700	86 500
Sulphur and pyrites						
Sulphur	tonnes	574 515	503 523	611 170	460 990	592 348
Sulphur, sublimed and precipitated	tonnes	156	311	1 852	750	621
Talc	tonnes	186 227	202 584	194 823	149 757	183 625
Tin						
Concentrates	tonnes	154	17	318	16	200
Unwrought	tonnes	1 312	1 639	1 100	1 350	1 131
Unwrought alloys	tonnes	1 368	2 719	2 235	2 638	3 289
Scrap	tonnes	4 866	3 907	2 422	2 327	3 560
Titanium						
Titanium minerals	tonnes	157 491	221 156	204 688	110 028	181 688
Metal	tonnes	1 857	3 800	3 739	2 132	1 743
Oxides	tonnes	314 131	144 760	132 327	108 582	(a)* 314 200
Tungsten						
Ores and concentrates	tonnes	—	25	—	2	28
Metal	tonnes	454	510	401	326	402
Carbide	tonnes	64	72	45	35	31
Vanadium						
Ores and concentrates	tonnes	186	162	200	123	...
Pentoxide	tonnes	12	64	38	94	123
Zinc						
Ores and concentrates	tonnes	1 109 923	1 100 875	(a)* 805 000	(a)* 444 500	1 129 207
Unwrought	tonnes	215 338	208 819	205 745	237 741	189 980
Unwrought alloys	tonnes	24 414	12 115	8 075	13 299	10 613
Scrap	tonnes	44 221	59 769	40 657	61 433	68 233
Zirconium						
Concentrates	tonnes	18 763	17 593	17 337	28 897	17 469
Metal	tonnes	556	469	433	213	370

Note(s)

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

(b) Including burnt pyrites

Bulgaria

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	15 289 051	17 607 212	19 697 937	12 882 651	5 199 000
Crushed rock	tonnes	8 889 017	12 199 339	21 094 047	15 667 880	16 876 900
Barytes	tonnes	74 500	50 900	40 100	14 300	500
Bentonite and fuller's earth						
Bentonite	tonnes	134 500	99 000	178 700	108 400	99 700
Bismuth, mine	tonnes (metal content)	* 45	* 45	* 45	* 45	* 45
Cadmium	tonnes	320	318	376	413	* 440
Cement						
Cement, clinker	tonnes	...	...	3 509 817	1 858 850	2 071 100
Cement, finished	tonnes	4 003 664	* 4 290 000	4 900 336	2 660 176	—
Coal						
Lignite	tonnes	22 749 500	25 325 000	26 007 800	25 014 800	27 148 300
Brown coal	tonnes	2 556 900	2 833 500	2 643 200	2 243 800	2 321 200
Copper, mine	tonnes (metal content)	123 571	116 157	107 195	110 652	112 904
Copper, refined	tonnes	65 500	69 900	126 700	196 900	215 100
Copper, smelter	tonnes	217 000	217 600	257 100	256 200	265 000
Feldspar	tonnes	93 091	* 90 000	* 90 000	* 80 000	* 80 000
Fluorspar	tonnes	—	—	—	32	10
Gold, mine	kilograms (metal content)	3 818	3 964	4 160	4 482	4 489
Gypsum	tonnes	215 800	234 300	21 200	127 600	109 200
Pig iron	tonnes	1 147 000	1 069 000	441 000	...	...
Crude steel	tonnes	2 102 000	1 909 000	1 330 000	726 000	744 000
Ferro-alloys						
Ferro-silicon	tonnes	* 10 000	* 10 000	6 260	* 2 600	* 2 000
Kaolin	tonnes	* 240 000	* 240 000	* 220 000	* 140 000	* 190 000
Lead, mine (a)	tonnes (metal content)	19 571	17 768	14 577	12 981	12 705
Lead, refined	tonnes	76 000	87 000	90 900	83 100	80 600
Manganese ore	tonnes	20 500	27 900	39 100	28 300	106 000
Perlite	tonnes	4 500	13 900	7 400	14 800	—
Crude petroleum	tonnes	27 500	25 700	23 000	23 800	22 400
Natural gas	million m ³	519	295	218	15	74
Salt	tonnes	2 000 000	2 000 000	2 100 000	1 300 000	1 900 000
Silver, mine	kilograms (metal content)	* 65 000	* 55 000	* 55 000	* 55 000	* 55 000
Zinc, mine (a)	tonnes	85 900	98 100	101 700	92 700	92 300
Slab zinc	tonnes (metal content)	16 108	14 453	12 819	9 339	9 904

Note(s)

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

(a) Metal content of ore

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	282 018	330 088	268 120	76 129	262 166
Aluminium and bauxite						
Unwrought alloys	tonnes	11 692	10 290	8 931	2 775	6 798
Scrap	tonnes	29 245	23 577	18 478	20 577	31 728
Barytes	tonnes	74 523	50 922	46 907	14 326	505
Bentonite and fuller's earth						
Bentonite	tonnes	89 531	74 412	103 106	79 359	72 183
Cadmium						
Metal	tonnes	369	434	374	569	474
Cement						
Cement clinkers	tonnes	293 031	353 996	120 588	14 836	5 246
Portland cement	tonnes	334 013	52 803	130 932	109 923	164 404
Other cement	tonnes	40	1 067	22 589	394	1 772

Bulgaria

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Coal						
Hard coal (a)	tonnes	5 372	17 358	36 095	11 511	76 508
Lignite	tonnes	...	—	53	5 862	9 525
Copper						
Ores and concentrates	tonnes	193 389	168 155	105 889	134 910	86 171
Matte and cement	tonnes	4 818	6 335	3 559	4 749	5 048
Unwrought	tonnes	210 520	185 012	252 018	226 404	214 234
Scrap	tonnes	13 163	11 590	10 547	10 717	18 226
Feldspar	tonnes	6 159	22 519	16 912	15 007	19 087
Gypsum						
Crude and calcined	tonnes	2 439	1 439	787	11 965	3 641
Iodine	kilograms	781	51 610	200	300	600
Iron, steel and ferro-alloys						
Pig iron	tonnes	44 549	62 032	23 553	1 420	1 141
Ferro-silico-manganese	tonnes	3 638	6 845	288	...	19
Ferro-silicon	tonnes	3 345	4 972	2 076	2 890	980
Other ferro-alloys	tonnes	180	2 072	550	9 867	4 729
Silicon metal	tonnes	11	2 374	46	...	3
Ingots, blooms, billets	tonnes	163 020	135 710	85 466	54 115	30 327
Scrap	tonnes	722 261	677 347	740 414	510 997	949 000
Kaolin	tonnes	149 559	160 372	139 069	119 736	159 669
Lead						
Ores and concentrates	tonnes	10 900	23 417	9 555	4 188	4 611
Unwrought	tonnes	65 400	66 384	80 972	77 713	78 977
Manganese						
Ores and concentrates	tonnes	25 595	19 335	17 369	29 715	163 257
Molybdenum						
Metal	tonnes	87	99	123	132	122
Nickel						
Scrap	tonnes	4	20	48	364	1 220
Platinum metals						
Waste and scrap	kilograms	(b)* 73 200	(b)* 94 700	(b)* 1 400	(b)* 44 000	...
Salt	tonnes	16 020	13 943	8 239	2 689	1 078
Silver						
Metal	kilograms	...	49 468	36 516	58 565	37 300
Sulphur and pyrites						
Sulphur	tonnes	31 737	33 039	28 993	20 840	40 286
Titanium						
Metal	tonnes	4	28	835	2	—
Tungsten						
Metal	tonnes	28	33	20	2	80
Zinc						
Ores and concentrates	tonnes	492	4 384	7 982	2 076	22
Unwrought (c)	tonnes	227 543	90 573	96 678	87 008	81 332
Scrap	tonnes	1 854	1 511	1 293	2 226	1 949

Note(s)

(a) Including anthracite

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

(c) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	19 383	41 782	41 256	22 189	14 843
Aluminium and bauxite						
Alumina	tonnes	2 039	2 368	1 370	1 859	2 887
Unwrought	tonnes	46 154	39 850	42 738	39 759	44 468
Unwrought alloys	tonnes	20 490	19 617	18 557	16 050	27 444
Scrap	tonnes	2 179	3 554	4 028	3 014	6 897
Antimony						
Metal	tonnes	34	100	35	40	45
Arsenic						
Metallic arsenic	tonnes	10	30	12	11	3
Bentonite and fuller's earth						
Bentonite	tonnes	1 455	2 979	3 386	2 422	2 548
Fuller's earth	tonnes	537	...	...	...	...
Cement						
Cement clinkers	tonnes	586 194	123 806	248 737	45 002	16 167
Portland cement	tonnes	9 127	5 690	13 645	481 991	448 220
Other cement	tonnes	1 665	1 829	1 110	955	2 510
Chromium						
Ores and concentrates	tonnes	1 440	969	793	637	671
Coal						
Anthracite	tonnes	2 170 631	2 229 619	2 841 458	1 938 000	1 858 397
Other coal	tonnes	2 221 526	2 415 165	2 054 649	1 130 146	1 081 783
Briquettes	tonnes	39	112 775	66 676	10 238	46 754
Copper						
Ores and concentrates	tonnes	581 055	539 325	609 258	635 039	575 192
Matte and cement	tonnes	5 003	10 025	34 997	15 160	13 642
Unwrought	tonnes	19 735	28 226	30 422	8 016	8 272
Scrap	tonnes	7 784	12 899	23 856	20 730	35 464
Diamond						
Dust	carats	...	14 770 306	7 623 860	4 940 300	7 251 395
Diatomite						
Diatomite	tonnes	1 156	436	587	404	249
Feldspar						
Feldspar	tonnes	40 416	35 851	31 346	54 178	86 861
Fluorspar						
Fluorspar	tonnes	2 321	1 326	651	778	700
Graphite						
Graphite	tonnes	433	250	158	132	66
Gypsum						
Crude	tonnes	10 088	8 240	12 223	15 830	6 239
Calcined	tonnes	56 869	58 880	70 280	42 086	44 383
Iodine						
Iodine	kilograms	3 990	6 500	2 900	2 900	2 300
Iron ore						
Iron ore	tonnes	1 305 110	919 785	208 559	3 110	7 991
Burnt pyrites	tonnes	450 004	464 580	188 923	15 831	16 653
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 278	26 932	27 941	6 736	14 781
Sponge and powder	tonnes	542	31 306	1 282	14 572	317
Ferro-chrome	tonnes	1 088	916	656	182	356
Ferro-manganese	tonnes	6 133	7 981	4 206	3 137	3 137
Ferro-silico-manganese	tonnes	1 885	3 336	4 325	3 479	4 291
Ferro-silicon	tonnes	4 410	2 977	3 331	1 152	2 520
Other ferro-alloys	tonnes	1 789	2 390	1 906	1 033	1 060
Silicon metal	tonnes	9 733	873	763	247	533
Ingots, blooms, billets	tonnes	417 485	462 348	567 381	306 020	258 743
Scrap	tonnes	188 698	295 555	237 055	202 276	269 483
Kaolin						
Kaolin	tonnes	91 831	29 717	28 748	20 623	23 784
Lead						
Ores and concentrates	tonnes	100 736	92 929	119 522	63 185	81 307
Unwrought	tonnes	11 305	15 854	15 529	10 182	7 283
Scrap	tonnes	1 346	3 338	5 830	12 145	17 462
Magnesite and magnesia						
Manganese	tonnes	6 551	4 670	6 296	3 180	5 678
Ores and concentrates	tonnes	17 367	27 602	—	20	5
Metal	tonnes	48	48	50	69	216
Molybdenum						
Metal	tonnes	73	47	15	47	10
Nickel						
Unwrought (a)	tonnes	205	195	204	90	125
Crude petroleum	tonnes	(b)* 4 866 000	7 162 499	7 262 658	5 770 397	5 355 541

Bulgaria

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Phosphate rock	tonnes	449 874	462 247	534 734	309 564	455 539
Platinum metals						
Platinum and platinum metals	kilograms	31	82 367	613	16	17
Potash						
Potassic fertilisers	tonnes	9 102	4 845	4 633	1 970	7 985
Salt	tonnes	181 801	71 848	103 007	102 272	215 355
Silver						
Metal	kilograms	...	10 521	2 189	871	2 408
Sulphur and pyrites						
Sulphur	tonnes	767	1 039	487	162	161
Talc	tonnes	626	688	1 048	747	512
Tin						
Unwrought (a)	tonnes	278	51	69	22	47
Titanium						
Titanium minerals	tonnes	300	712	42	105	506
Oxides	tonnes	4 750	5 398	5 955	5 329	5 675
Zinc						
Ores and concentrates	tonnes	198 504	208 313	146 655	147 579	167 107
Unwrought (a)	tonnes	9 994	3 330	5 095	2 480	1 761
Zirconium						
Concentrates	tonnes	1 421	1 357	1 081	573	781

Note(s)

(a) Including alloys

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

Croatia

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	...	...	7 275 077	6 583 880	3 646 572
Bentonite and fuller's earth						
Bentonite	tonnes	16 410	19 578	19 759	* 20 000	* 20 000
Gypsum	tonnes	170 351	170 721	* 250 000	318 139	248 675
Crude steel	tonnes	80 516	76 252	121 759	54 266	103 429
Crude petroleum	tonnes	950 859	911 207	867 027	807 424	748 791
Natural gas	million m ³	2 714	2 892	2 729	2 591	2 727
Salt	tonnes	29 589	32 536	54 937	57 186	66 835

Note(s)

(1) Croatia is also believed to produce sulphur

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 390 517	3 334 229	2 950 159	3 087 216	1 858 348
Aluminium and bauxite						
Scrap	tonnes	19 832	20 886	17 769	15 779	22 346
Cement						
Cement clinkers	tonnes	244 043	310 378	235 377	169 394	176 403
Portland cement	tonnes	1 282 560	855 579	667 503	615 827	639 236
Other cement	tonnes	89 957	94 185	468 597	276 981	601 470
Copper						
Scrap	tonnes	12 105	12 378	10 884	10 202	13 329
Gypsum						
Crude and calcined	tonnes	6 349	4 808	4 738	3 119	10
Iron, steel and ferro-alloys						
Scrap	tonnes	398 070	427 540	357 487	302 085	357 015
Lead						
Scrap	tonnes	1 057	3 590	1 872	1 025	1 697
Natural gas	tonnes	871 768	540 782	457 192	570 296	347 567
Platinum metals						
Waste and scrap	kilograms	27 719	18 314	27 018	27 959	53 996
Salt	tonnes	9 759	3 986	4 530	9 995	20 721
Sulphur and pyrites						
Sulphur	tonnes	6 606	8 614	7 604	8 664	6 565
Titanium						
Oxides	tonnes	419	489	417	331	117
Zinc						
Scrap	tonnes	511	683	700	708	518

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	3 867 559	4 583 241	4 618 579	1 871 236	926 574
Aluminium and bauxite						
Bauxite	tonnes	80 441	115 367	107 237	72 103	85 634
Alumina	tonnes	1 405	2 431	2 440	1 021	936
Unwrought	tonnes	53 021	54 067	57 828	37 828	50 354
Unwrought alloys	tonnes	18 893	22 039	20 786	28 251	29 270
Barytes	tonnes	893	98	1 525	889	710
Bentonite and fuller's earth						
Bentonite	tonnes	2 053	7 633	39 289	22 383	7 852
Fuller's earth	tonnes	260	...	...	...	...
Bismuth						
Metal	tonnes	5	10	8	—	1
Cement						
Cement clinkers	tonnes	...	27 488	50	1	967
Portland cement	tonnes	447 202	340 112	393 886	393 613	344 352
Other cement	tonnes	5 547	5 242	7 447	10 620	7 619
Chromium						
Ores and concentrates	tonnes	615	584	568	282	143
Metal	tonnes	51	280	394	307	419
Coal						
Hard coal (a)	tonnes	1 082 446	1 101 803	1 189 379	712 873	1 112 822
Lignite	tonnes	78 226	62 789	58 417	47 504	85 413
Briquettes	tonnes	6 084	2 604	2 796	1 730	1 823
Diatomite	tonnes	633	610	511	462	402
Feldspar	tonnes	15 986	16 212	15 983	14 603	14 763
Fluorspar	tonnes	124	149	289	165	146
Gold						
Metal	kilograms	992	1 608	693	1 221	310
Gypsum						
Crude	tonnes	25 095	48 775	38 120	14 470	1 608
Calcined	tonnes	37 052	37 034	34 224	22 154	14 076
Iron ore (b)	tonnes	12 604	14 444	17 177	12 057	20 147
Iron, steel and ferro-alloys						
Pig iron	tonnes	16 994	17 011	15 031	8 420	10 343
Ferro-alloys	tonnes	3 031	3 027	4 790	2 239	4 051
Ingots, blooms, billets	tonnes	27 291	20 953	20 077	19 396	6 514
Scrap	tonnes	17 563	29 553	19 400	10 628	30 395
Kaolin	tonnes	16 423	21 845	24 009	14 486	10 238
Lead						
Unwrought	tonnes	1 415	911	680	376	538
Magnesite and magnesia	tonnes	1 564	1 872	1 682	1 289	1 208
Manganese						
Metal	tonnes	89	586	64	53	23
Crude petroleum	tonnes	3 778 918	4 285 565	3 476 266	4 044 874	3 517 452
Natural gas	tonnes	1 085 554	700 955	855 326	738 109	587 846
Phosphate rock	tonnes	317 571	327 936	328 599	117 441	51 010
Potash						
Chloride	tonnes	149 424	159 288	157 994	10 538	132 471
Other potassic fertilisers	tonnes	3 594	3 564	2 958	1 091	1 749
Salt	tonnes	193 911	104 066	176 408	197 644	287 609
Silver						
Metal	kilograms	5 043	3 684	3 293	2 353	3 212
Sulphur and pyrites						
Pyrites	tonnes	122	75	32	124	72
Sulphur	tonnes	86 431	71 965	98 785	10 349	2 877
Sulphur, sublimed and precipitated	tonnes	3 492	2 425	4	51	105
Talc	tonnes	1 753	1 985	1 709	1 721	1 813
Titanium						
Oxides	tonnes	2 827	3 244	2 989	2 697	3 000
Zinc						
Unwrought (c)	tonnes	11 506	4 674	4 656	3 149	3 029

Note(s)

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

Cyprus

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Crushed rock	tonnes	12 198 513	13 129 470	14 174 480	11 467 987	12 981 444
Bentonite and fuller's earth						
Bentonite	tonnes	150 620	154 655	155 125	152 722	162 969
Cement						
Cement, clinker	tonnes	97 846	—	—	30 286	—
Cement, finished	tonnes	1 786 488	1 872 531	1 913 620	1 480 843	1 328 763
Copper, mine	tonnes (metal content)	900	2 900	3 000	2 500	2 600
Copper, refined	tonnes	880	3 012	2 986	2 380	2 595
Gypsum	tonnes	270 000	330 000	412 000	317 000	333 000

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	5 118	148 994	124 576	38 469	—
Aluminium and bauxite						
Scrap	tonnes	4 880	4 745	4 409	5 934	6 896
Bentonite and fuller's earth						
Bentonite	tonnes	159 472	156 871	92 089	95 674	98 803
Cement						
Cement clinkers	tonnes	91 635	0	0	24 215	—
Portland cement	tonnes	155 271	51 022	—	27 324	12 866
Copper						
Unwrought	tonnes	879	3 006	2 986	2 449	2 550
Scrap	tonnes	2 684	2 122	2 381	3 400	4 619
Gypsum						
Crude and calcined	tonnes	152 621	203 109	279 902	236 427	250 034
Iron, steel and ferro-alloys						
Scrap	tonnes	65 998	63 662	72 106	80 349	96 654
Phosphate rock	tonnes	...	...	2 960	...	—
Salt	tonnes	521	769	956	2 910	7 929
Zinc						
Scrap	tonnes	69	1 746	...	118	90

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	11 605	15 497	28 990	11 564	2 648
Aluminium and bauxite						
Unwrought alloys	tonnes	12 481	13 868	13 408	8 721	9 211
Bentonite and fuller's earth						
Bentonite	tonnes	9 063	10 556	12 496	5 709	4 629
Cement						
Cement clinkers	tonnes	17 819	17 498	66 787	15 455	29 579
Portland cement	tonnes	1 241	1 017	29 311	249	2 512
Coal						
Hard coal (a)	tonnes	23 473	56 896	46 258	28 911	7 714
Diamond						
Gem, cut	carats	£1 387 000	£1 311 000	£1 564 000	£1 724 000	£955 000
Industrial	carats	£1 072 000	£1 042 000	£1 311 000	£587 000	£1 007 000
Gypsum						
Crude and calcined	tonnes	9 849	12 932	15 045	10 807	9 292

Cyprus

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Platinum metals						
Platinum and platinum metals (b)	kilograms	* 900	* 700	* 400	...	* 900
Rare earths						
Ferro-cerium and other pyrophoric alloys	tonnes	1	0	—	...	18
Salt	tonnes	13 647	12 208	13 445	16 822	23 836
Silver						
Metal	kilograms	2 866	3 746	2 863	1 993	1 200
Sulphur and pyrites						
Sulphur	tonnes	893	995	895	1 011	951
Talc	tonnes	307	343	521	290	307
Titanium Oxides	tonnes	1 227	1 243	1 603	1 189	1 299

Note(s)

(a) Including anthracite

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

Czech Republic

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	27 198 000	28 233 000	27 306 000	23 974 000	19 240 000
Crushed rock	tonnes	41 561 000	43 214 000	44 277 000	41 307 000	37 270 000
Bentonite and fuller's earth						
Bentonite	tonnes	267 000	335 000	235 000	177 000	183 000
Cement						
Cement, clinker	tonnes	...	3 127 530	3 137 828	2 433 746	2 260 561
Cement, finished	tonnes	4 677 150	4 898 530	4 804 845	3 851 100	3 558 536
Coal						
Bituminous	tonnes	13 017 000	12 462 000	12 197 000	10 621 000	11 193 000
Lignite	tonnes	459 000	437 000	416 000	262 000	—
Brown coal	tonnes	48 915 000	49 134 000	47 456 000	45 354 000	43 931 000
Diatomite	tonnes	53 000	19 000	31 000	—	32 000
Feldspar	tonnes	487 000	514 000	488 000	431 000	388 000
Graphite	tonnes	5 000	3 000	3 000	—	—
Gypsum	tonnes	16 000	66 000	35 000	13 000	5 000
Pig iron	tonnes	5 192 000	5 287 000	4 737 000	3 483 000	3 987 000
Crude steel	tonnes	6 862 000	7 059 000	6 387 000	4 594 000	5 180 000
Ferro-alloys						
Ferro-vanadium	tonnes	* 2 800	* 1 700	* 2 800	* 1 900	* 3 400
Kaolin (a)	tonnes	673 000	682 000	664 000	488 000	636 000
Lead, refined	tonnes	29 000	34 000	36 000	29 000	30 000
Crude petroleum	tonnes	259 000	240 000	236 000	217 000	173 000
Natural gas	million m ³	148	148	168	180	201
Uranium, mine	tonnes (metal content)	383	322	290	286	259

Note(s)

(1) Czech Republic is also believed to produce sulphur

(a) Beneficiated

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	772 913	716 787	699 987	597 101	683 786
Aluminium and bauxite						
Unwrought (a)	tonnes	45 876	54 457	53 682	59 913	51 307
Scrap	tonnes	53 986	61 067	59 196	49 251	71 467
Antimony						
Oxide	tonnes	108	139	133	89	71
Bentonite and fuller's earth						
Bentonite	tonnes	86 296	97 358	105 403	99 584	120 859
Bismuth						
Metal	tonnes	1	2	3	—	19
Cement						
Cement clinkers	tonnes	32 521	29 924	19 039	85 427	88 236
Portland cement	tonnes	394 105	458 701	436 600	374 515	402 537
Other cement	tonnes	67 930	151 422	196 133	156 650	218 689
Chromium						
Ores and concentrates	tonnes	645	800	507	369	764
Metal	tonnes	2 104	946	594	662	21
Coal						
Hard coal (b)	tonnes	6 690 917	6 732 974	5 993 824	6 028 577	6 451 881
Lignite	tonnes	1 300 406	1 076 140	1 561 097	1 207 715	1 019 645
Briquettes	tonnes	213 621	112 450	75 459	93 479	90 864
Copper						
Unwrought	tonnes	12 651	10 301	7 829	14 645	14 557
Scrap	tonnes	57 152	58 534	63 825	105 230	123 688

Czech Republic

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Diamond						
Gem, cut	Carats	£451 000	£529 000	£3 947 000	£3 046 000	£4 465 000
Diatomite	tonnes	4 566	1 094	4 128	3 789	4 231
Feldspar	tonnes	154 672	168 259	171 596	135 533	129 715
Fluorspar	tonnes	9 954	8 415	4 488	6 147	10 575
Gold						
Metal	kilograms	4 100	3 900	4 000	9 800	12 000
Waste and scrap	kilograms	700	6 100	5 200	5 600	4 400
Graphite	tonnes	3 518	4 029	4 076	2 150	3 154
Gypsum						
Crude	tonnes	46 837	105 394	60 018	10 195	48 605
Calcined	tonnes	6 249	5 973	7 881	6 430	5 235
Iodine	kilograms	800	1 000	300	500	1 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	17 599	31 182	30 457	24 041	65 473
Ferro-silicon	tonnes	6 516	8 254	8 780	4 285	9 806
Ferro-vanadium	tonnes	2 763	1 685	2 830	1 868	3 440
Other ferro-alloys	tonnes	15 078	8 704	13 897	12 274	23 873
Silicon metal	tonnes	1 040	1 118	1 375	783	847
Ingots, blooms, billets	tonnes	324 619	587 296	500 423	222 780	320 821
Scrap	tonnes	1 456 061	1 678 565	1 792 889	1 442 865	1 814 398
Kaolin	tonnes	261 019	173 251	233 819	174 814	485 203
Lead						
Unwrought	tonnes	10 359	16 707	18 713	23 617	32 743
Scrap	tonnes	6 648	6 855	8 136	4 832	1 914
Magnesite and magnesia	tonnes	4 099	3 988	4 540	3 728	3 809
Mercury	kilograms	1 700	3 600	6 300	6 400	1 100
Nickel						
Unwrought (a)	tonnes	690	171	758	228	126
Scrap	tonnes	1 036	1 245	601	2 420	4 558
Oxides	tonnes	602	617	643	275	341
Crude petroleum	tonnes	41 794	16 573	18 130	21 600	18 239
Natural gas	tonnes	—	—	—	834 462	1 318 872
Phosphate rock	tonnes	726	732	1 091	817	—
Platinum metals						
Platinum and platinum metals	kilograms	(c)* 500	(c)* 800	3 400	5 200	6 800
Waste and scrap	kilograms	4 700	1 900	700	—	—
Potash						
Potassic fertilisers	tonnes	3 143	3 096	3 322	6 843	4 235
Rare earths						
Cerium compounds	tonnes	8	6	3	3	3
Other rare earth compounds	tonnes	5	6	5	0	3
Salt	tonnes	30 648	18 760	14 116	31 068	51 289
Silver						
Metal	kilograms	98 354	102 968	117 325	77 000	74 600
Sulphur and pyrites						
Sulphur	tonnes	11 718	5 579	16 670	20 153	12 124
Tantalum and niobium						
Tantalum	tonnes	53	66	97	62	95
Tin						
Unwrought (a)	tonnes	74	253	86	76	276
Scrap	tonnes	249	958	85	118	44
Titanium						
Titanium minerals	tonnes	492	745	641	452	2 378
Metal	tonnes	424	126	84	339	358
Oxides	tonnes	43 010	43 166	42 860	46 753	45 842
Tungsten						
Metal	tonnes	142	102	86	30	211
Carbide	tonnes	579	605	592	307	803
Zinc						
Unwrought (a)	tonnes	10 669	18 786	17 258	19 982	5 148
Scrap	tonnes	3 086	2 981	2 705	2 716	4 798

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	690 730	252 049	333 726	398 613	353 419
Aluminium and bauxite						
Bauxite	tonnes	24 829	26 865	17 698	9 857	33 794
Alumina	tonnes	24 078	30 523	28 245	5 995	7 407
Alumina hydrate	tonnes	9 782	7 834	6 916	6 672	9 547
Unwrought	tonnes	74 392	82 910	68 362	62 972	76 945
Unwrought alloys	tonnes	104 238	119 773	124 643	108 231	135 648
Scrap	tonnes	48 937	63 508	58 424	50 379	61 802
Antimony						
Metal	tonnes	82	64	131	55	75
Oxide	tonnes	503	604	521	209	379
Arsenic						
Metallic arsenic	tonnes	11	10	26	0	—
Barytes	tonnes	7 195	6 358	7 388	4 641	7 004
Bentonite and fuller's earth						
Bentonite	tonnes	18 452	23 559	24 239	25 129	18 472
Fuller's earth	tonnes	1 039	...	...	...	...
Bismuth						
Metal	tonnes	77	70	78	53	106
Bromine	kilograms	5 066	7 700	12 000	2 600	3 100
Cadmium						
Oxide	tonnes	285	338	463	396	464
Cement						
Cement clinkers	tonnes	117 477	109 392	134 179	101 031	121 682
Portland cement	tonnes	1 001 321	918 739	932 685	890 776	702 257
Other cement	tonnes	38 439	30 602	23 816	51 482	48 336
Chromium						
Ores and concentrates	tonnes	11 380	13 936	12 990	7 798	7 975
Metal	tonnes	123	281	282	83	514
Coal						
Anthracite	tonnes	61 255	45 114	39 211	24 054	24 471
Other coal	tonnes	1 896 977	2 507 091	2 181 691	1 761 947	2 016 443
Lignite	tonnes	24 412	33 472	33 579	36 617	49 426
Briquettes	tonnes	23 837	1 393	18 654	60 962	137 933
Cobalt						
Metal	tonnes	84	108	199	220	60
Copper						
Unwrought	tonnes	5 412	15 156	11 474	21 475	6 846
Unwrought alloys	tonnes	2 909	3 755	3 862	3 050	3 674
Scrap	tonnes	8 104	8 966	8 677	9 639	11 804
Diamond						
Gem, cut	carats	18 182	5 837	116 669	7 306	5 567
Industrial	carats	30 377	43 006	30 181	7 640	5 061
Dust	carats	£867 000	£884 000	£1 369 000	£977 000	£1 704 000
Diatomite	tonnes	2 288	3 318	4 768	3 173	2 753
Feldspar	tonnes	16 032	14 213	11 414	5 330	6 298
Fluorspar	tonnes	24 637	24 915	3 440	8 626	14 495
Gold						
Metal	kilograms	1 570	8 813	3 047	3 055	2 600
Waste and scrap	kilograms	14 953	45 718	19 140	60 440	84 000
Graphite	tonnes	3 485	5 301	6 233	2 554	3 605
Gypsum						
Crude	tonnes	38 983	70 972	76 119	83 819	55 087
Calcined	tonnes	43 282	45 167	75 278	53 954	33 763
Iodine	kilograms	31 600	32 300	25 200	31 900	35 100
Iron ore	tonnes	7 984 718	(a) 6 578 116	(a) 6 799 756	(a) 4 803 009	(a) 5 902 011

Czech Republic

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	150 032	108 715	111 872	47 666	54 625
Sponge and powder	tonnes	10 136	20 580	24 791	10 006	15 391
Ferro-chrome	tonnes	20 492	34 123	26 043	14 715	16 962
Ferro-silico-magnesium	tonnes	1 236	6 297	5 778	3 192	3 784
Ferro-manganese	tonnes	32 355	35 500	33 704	23 630	26 204
Ferro-silico-manganese	tonnes	57 857	52 153	48 962	34 418	40 732
Ferro-molybdenum	tonnes	1 889	2 025	2 049	949	1 868
Ferro-silicon	tonnes	36 361	41 482	37 230	23 936	31 908
Ferro-vanadium	tonnes	429	440	578	299	482
Other ferro-alloys	tonnes	9 080	1 697	1 644	836	1 303
Silicon metal	tonnes	4 986	6 584	5 826	4 408	5 805
Ingots, blooms, billets	tonnes	409 753	445 181	525 598	220 524	651 182
Scrap	tonnes	560 676	521 779	502 256	377 942	410 647
Kaolin	tonnes	22 962	23 461	20 662	13 228	14 125
Lead						
Unwrought	tonnes	67 850	66 060	59 318	65 896	81 762
Scrap	tonnes	4 411	6 519	4 672	4 150	2 901
Lithium						
Carbonate	tonnes	118	146	64	35	66
Magnesite and magnesia						
Magnesite	tonnes	5 320	6 527	4 193	3 460	7 108
Magnesia	tonnes	51 674	52 330	54 246	38 048	38 862
Manganese						
Ores and concentrates	tonnes	14 335	16 079	15 715	16 063	25 758
Metal	tonnes	674	757	2 542	2 219	984
Mercury	kilograms	4 000	3 200	3 700	4 400	2 400
Mica	tonnes	1 629	2 262	1 958	981	2 513
Molybdenum						
Ores and concentrates	tonnes	139	213	284	1 040	184
Metal	tonnes	175	130	560	127	82
Nickel						
Unwrought (b)	tonnes	3 531	4 429	3 728	2 179	2 223
Scrap	tonnes	152	294	473	1 468	1 257
Oxides	tonnes	844	919	838	319	393
Crude petroleum	tonnes	7 752 356	7 179 766	8 141 759	7 451 765	7 770 418
Natural gas	tonnes	5 489 325	5 478 515	6 264 909	7 080 247	7 471 522
Phosphate rock	tonnes	28 141	33 954	20 928	543	9 917
Platinum metals						
Platinum	kilograms	4 326	99	42 358	81 500	25 000
Platinum metals	kilograms	273	477	47 932	600	17 700
Waste and scrap	kilograms	86	913	4 414	772	7 835
Potash						
Chloride	tonnes	43 238	32 745	28 052	36 125	82 710
Other potassic fertilisers	tonnes	3 475	4 215	5 025	2 430	4 773
Rare earths						
Rare earth compounds	tonnes	227	228	155	124	131
Metals	tonnes	1	3	0	0	13
Ferro-cerium and other pyrophoric alloys	tonnes	6	4	5	5	6
Salt	tonnes	1 151 331	567 960	610 149	711 374	958 474
Sillimanite minerals	tonnes	6 765	5 601	6 686	4 717	4 440
Silver						
Ores and concentrates	kilograms	...	...	...	5 700	990 200
Metal	kilograms	602 527	647 818	1 557 076	163 316	136 000
Sulphur and pyrites						
Pyrites	tonnes	223	281	1 576	299	250
Sulphur	tonnes	40 147	55 196	43 473	20 986	14 762
Sulphur, sublimed and precipitated	tonnes	70 555	57 410	65 242	71 033	82 355
Talc	tonnes	10 855	12 993	11 007	9 312	9 570
Tantalum and niobium						
Tantalum	tonnes	164	206	253	141	265
Tin						
Unwrought (b)	tonnes	665	616	802	937	449
Titanium						
Titanium minerals	tonnes	149 925	179 323	193 858	140 394	155 485
Metal	tonnes	1 155	1 086	1 122	918	779
Oxides	tonnes	8 734	10 529	8 765	7 248	8 857

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Tungsten						
Metal	tonnes	197	837	206	4 184	677
Carbide	tonnes	...	...	...	...	150
Vanadium						
Pentoxide	tonnes	4 858	3 210	5 135	2 702	5 255
Zinc						
Unwrought	tonnes	33 732	35 666	36 733	24 660	15 121
Unwrought alloys	tonnes	11 113	11 992	11 344	7 155	11 653
Scrap	tonnes	334	4 008	2 792	2 434	900
Zirconium						
Concentrates	tonnes	1 498	1 482	751	268	303
Metal	tonnes	86	78	101	45	37

Note(s)

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

Denmark

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	72 508 000	68 255 000	59 704 000	42 202 500	39 338 000
Crushed rock	tonnes	372 000	410 000	384 000	312 000	288 000
Bentonite and fuller's earth						
Bentonite	tonnes	19 211	20 093	22 458	24 040	23 832
Cement						
Cement, clinker	tonnes	5 499	21 209	16 092	122	3 819
Cement, finished	tonnes	2 937 132	2 871 402	2 538 822	1 578 614	1 566 624
Diatomite						
Moler (a)	tonnes	196 000	201 000	210 000	168 000	166 000
Crude petroleum	tonnes	17 068 000	15 552 000	14 338 000	13 045 000	12 090 000
Natural gas	million m ³	9 862	8 757	9 562	7 980	7 792
Salt	tonnes	608 282	557 917	496 593	511 063	601 046
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	4 142	3 896	3 467	4 200	3 246

Note(s)

(1) Denmark is also believed to produce kaolin

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

(b) From petroleum refining and/or natural gas

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	973 497	1 194 349	846 490	955 036	907 149
Aluminium and bauxite						
Unwrought alloys	tonnes	31 768	36 831	32 499	7 505	9 515
Alumina	tonnes	3 470	5 471	5 300	4 002	4 661
Scrap	tonnes	62 734	50 164	56 727	70 649	73 402
Bentonite and fuller's earth						
Bentonite	tonnes	19 214	19 495	15 734	13 004	13 787
Cement						
Cement clinkers	tonnes	11 981	9 673	7 287	7 784	11 884
Portland cement	tonnes	1 290 816	1 094 730	969 666	568 656	731 730
Other cement	tonnes	14 153	16 222	25 482	20 751	3 860
Chromium						
Metal	tonnes	855	549	1 262	659	1 056
Coal						
Hard coal	tonnes	(a) 54 338	(a) 75 866	(a) 27 070	(a) 1 973 198	(b) * 10 000
Copper						
Scrap	tonnes	31 076	31 569	33 421	31 711	30 006
Diatomite (b)	tonnes	* 71 500	* 63 600	* 67 800	* 57 500	* 57 300
Gold						
Metal	kilograms	1 253	366	397	100	200
Waste and scrap	kilograms	3 531	600	600	500	500
Gypsum						
Crude	tonnes	165 656	197 920	141 124	8 440	2 211
Calcined	tonnes	356 443	1 740	4 173	1 455	8 299
Iodine	kilograms	6 301	100	1	1 500	3
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	14 611	64	70	85	238
Other ferro-alloys	tonnes	238	701	585	330	83
Ingots, blooms, billets	tonnes	2 199	12 820	16 775	13 287	19 143
Scrap	tonnes	1 414 060	1 263 987	1 372 424	1 335 754	1 596 485
Kaolin	tonnes	443	351	486	352	607

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Lead						
Unwrought	tonnes	1 071	721	78	615	896
Scrap	tonnes	2 954	1 685	1 159	4 057	3 485
Magnesite and magnesia	tonnes	307	451	461	518	796
Nickel						
Scrap	tonnes	585	482	642	1 063	1 765
Crude petroleum	tonnes	11 456 257	9 493 573	8 593 198	8 520 980	7 363 518
Natural gas	tonnes	3 818 822	3 786 580	4 023 305	2 906 339	* 1 000 000
Platinum metals						
Platinum and platinum metals	kilograms	32	48	1	7 000	200
Potash						
Chloride	tonnes	29 533	127	45	59	69
Rare earths						
Metals	tonnes	0	4	2	—	...
Salt	tonnes	115 980	261 895	265 036	333 383	319 317
Silver						
Metal	kilograms	24 299	43 775	18 782	37 200	30 300
Tin						
Scrap	tonnes	124	90	28	37	35
Titanium						
Metal	tonnes	146	162	152	102	196
Oxides	tonnes	1 134	1 121	460	442	820
Tungsten						
Metal	tonnes	86	112	121	91	113
Zinc						
Scrap	tonnes	3 628	2 388	2 028	2 622	2 563

Note(s)

(a) Including anthracite

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	3 151 321	3 077 714	3 346 209	2 932 586	2 777 604
Aluminium and bauxite						
Bauxite	tonnes	9 025	6 572	7 317	8 108	8 364
Alumina	tonnes	28 709	25 643	27 582	21 968	22 484
Unwrought (a)	tonnes	79 573	86 389	85 420	61 259	79 479
Scrap	tonnes	64 803	66 038	70 726	5 321	5 175
Barytes	tonnes	58 303	38 096	22 324	27 656	14 178
Bentonite and fuller's earth						
Bentonite	tonnes	49 695	43 555	34 012	35 089	43 049
Fuller's earth	tonnes	921	...	...	...	...
Bromine	kilograms	...	...	...	...	...
Cement						
Cement clinkers	tonnes	46 600	35 555	33 825	31 847	23 732
Portland cement	tonnes	274 151	243 348	289 307	208 467	180 249
Other cement	tonnes	54 194	52 662	38 687	46 117	38 797
Chromium						
Ores and concentrates	tonnes	774	945	974	384	480
Coal						
Anthracite	tonnes	85 883	47 233	45 282	12 593	48
Other coal	tonnes	9 234 248	8 034 596	7 412 557	6 423 923	* 5 000 000
Lignite	tonnes	359	76	157	576	1 228
Briquettes	tonnes	511	194	1 000	455	7 554
Copper						
Unwrought	tonnes	4 081	2 901	2 818	1 413	1 978
Scrap	tonnes	14 646	9 187	11 235	10 388	9 125

Denmark

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Diamond						
Unsorted	carats	£686 000	£928 000	£1 168 000	£40 000	£255 000
Gem, cut	carats	£7 252 000	£8 473 000	£7 424 000	£4 680 000	£5 339 000
Industrial	carats	£184 000	£388 000	£104 000	£223 000	£59 000
Dust	carats	769 511	1 056 203	791 502	10 000 000	500 000
Diatomite	tonnes	4 974	4 244	5 849	3 347	3 294
Feldspar	tonnes	2 590	3 145	2 678	2 666	1 211
Fluorspar	tonnes	12 635	8 218	17 003	33 149	13 086
Gold						
Metal	kilograms	1 643	2 350	2 000	3 100	900
Graphite	tonnes	268	212	185	269	303
Gypsum						
Crude	tonnes	330 476	388 662	379 094	106 304	53 577
Calcined	tonnes	52 788	53 647	52 087	58 675	42 290
Iodine	kilograms	16 345	1 973 090	1 122 329	8 674	10 168
Iron ore						
Iron ore	tonnes	3 404	72 805	111 604	69 990	53 896
Burnt pyrites	tonnes	81 341	9 231	—	—	15 457
Iron, steel and ferro-alloys						
Pig iron	tonnes	18 128	18 349	14 064	10 299	10 263
Sponge and powder	tonnes	80 148	61 079	3 602	1 742	3 229
Ferro-silico-magnesium	tonnes	1 322	1 795	1 465	348	177
Ferro-silicon	tonnes	4 069	1 887	1 702	569	2 864
Other ferro-alloys	tonnes	1 771	595	1 080	217	250
Silicon metal	tonnes	1 586	741	263	65	42
Ingots, blooms, billets	tonnes	588 053	780 837	672 439	328 893	538 503
Scrap	tonnes	238 142	213 776	392 453	269 841	337 192
Kaolin	tonnes	19 572	35 288	47 525	37 738	37 007
Lead						
Unwrought	tonnes	2 322	1 033	192	107	128
Scrap	tonnes	2 209	2 228	1 984	2 583	2 890
Lithium						
Carbonate	tonnes	164	155	311	402	340
Magnesite and magnesia						
Magnesite	tonnes	444	512	456	2 680	2 728
Magnesia	tonnes	4 478	3 327	4 149	5 472	4 636
Manganese						
Ores and concentrates	tonnes	788	775	698	1 158	257
Metal	tonnes	161	317	233	136	183
Mica	tonnes	1 596	366	276	242	237
Molybdenum						
Oxides	tonnes	196	432	361	388	418
Nickel						
Scrap	tonnes	403	529	100	122	382
Crude petroleum	tonnes	2 576 191	2 136 643	2 240 240	3 320 486	2 562 669
Platinum metals						
Platinum and platinum metals	kilograms	2 962	6 952	6 448	4 699	2 300
Potash						
Sulphate	tonnes	4 778	6 077	1 878	1 019	1 910
Chloride	tonnes	106 772	34 292	47 885	4 917	36 608
Other potassic fertilisers	tonnes	13 150	13 742	24 438	11 052	14 967
Rare earths						
Cerium compounds	tonnes	1	1	11	734	15
Other rare earth compounds	tonnes	41	30	10	36	19
Salt	tonnes	520 735	230 787	213 931	421 109	762 420
Sillimanite minerals	tonnes	3 023	3 377	2 482	2 598	4 323
Silver						
Metal	kilograms	26 104	62 049	51 992	1 873 817	612 600
Sulphur and pyrites						
Sulphur	tonnes	2 335	204	2 082	4 447	7 051
Talc	tonnes	13 299	10 830	12 055	8 035	7 013
Titanium						
Metal	tonnes	788	623	774	670	674
Oxides	tonnes	24 678	19 514	17 055	17 511	20 427
Tungsten						
Metal	tonnes	523	113	110	105	51

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Zinc						
Unwrought	tonnes	11 494	9 931	12 591	6 063	4 427
Unwrought alloys	tonnes	1 320	1 345	910	771	1 310

Note(s)

(a) Including alloys

Estonia

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	4 209 080	6 531 740	3 635 700	3 911 980	3 524 400
Crushed rock	tonnes	8 298 400	8 855 800	7 945 900	6 034 500	5 752 600
Cement						
Cement, clinker	tonnes	704 700	1 042 800	1 040 000	448 500	537 000
Cement, finished	tonnes	848 900	937 400	808 000	326 200	375 000
Lead, refined	tonnes	9 000	10 000	10 000	10 000	* 10 000
Crude petroleum (a)	tonnes	1 624 000	1 901 600	1 869 500	1 733 000	2 080 000

Note(s)

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

(a) From oil shale

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	563 697	573 530	701 067	503 048	810 298
Aluminium and bauxite						
Unwrought (a)	tonnes	3 013	8 083	27 839	8 357	4 132
Scrap	tonnes	8 263	10 379	19 895	6 958	65 948
Cement						
Cement clinkers	tonnes	87 638	325 263	426 384	395 641	222 190
Portland cement	tonnes	228 971	274 997	383 449	120 294	148 505
Other cement	tonnes	29	452	1 387	59	488
Coal						
Hard coal	tonnes	(b) 3 164	(b) 2 035	...	(b) 20 296	(b) 1 970
Copper						
Scrap	tonnes	11 801	7 784	8 185	5 633	6 915
Iron, steel and ferro-alloys						
Pig iron	tonnes	...	(c)* 1 360	1	(c)* 1	97
Ferro-alloys	tonnes	672	159	153	100	124
Ingots, blooms, billets	tonnes	425	5 985	1 392	3 159	1 203
Scrap	tonnes	592 372	572 216	650 099	384 299	512 766
Lead						
Unwrought	tonnes	6 054	10 091	10 473	8 861	10 624
Manganese						
Metal	tonnes	222	464	226	137	5
Nickel						
Scrap	tonnes	713	1 260	1 680	89	0
Rare earths						
Metals	tonnes	1	1	1	1	1
Rare earth compounds	tonnes	6 819	3 183	2 916	2 679	1 686
Salt	tonnes	572	429	121	277	2 055
Silver						
Metal	kilograms	26	9	13	955	200
Tantalum and niobium						
Tantalum	tonnes	51	43	67	47	34
Tin						
Scrap	tonnes	17	71	88	124	120
Titanium						
Metal	tonnes	49	11	13	30	26
Oxides	tonnes	163	1 491	579	158	49

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Zinc						
Scrap	tonnes	1 121	725	2 860	1 065	509

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	932 688	929 218	988 981	1 006 376	1 395 122
Aluminium and bauxite						
Unwrought (a)	tonnes	7 021	3 035	26 545	5 956	3 176
Scrap	tonnes	1 338	808	485	535	4 495
Bentonite and fuller's earth						
Bentonite	tonnes	2 223	1 995	1 506	1 631	3 352
Cement						
Cement clinkers	tonnes	44 059	31 127	25 438	—	13 474
Portland cement	tonnes	1 833	2 536	4 613	30 424	36 354
Coal						
Hard coal (b)	tonnes	95 079	175 599	123 194	30 413	77 300
Gold						
Metal	kilograms	365	900	1 200	300	900
Gypsum						
Crude	tonnes	22 619	26 567	19 239	381	11 295
Calcined	tonnes	18 255	19 769	18 823	8 760	8 950
Iodine	kilograms	48	12	18	196	13 157
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	1 815	1 240	1 114	305	656
Scrap	tonnes	64 110	53 155	37 774	9 267	8 434
Kaolin	tonnes	1 090	3 214	3 902	1 588	881
Manganese						
Metal	tonnes	909	836	478	168	576
Nickel						
Scrap	tonnes	562	803	129	—	—
Unwrought (a)	tonnes	1 378	350	34	15	27
Natural gas	tonnes	154 926	726 823	717 831	477 844	491 806
Potash						
Chloride	tonnes	11 173	7 048	8 665	1	1 517
Rare earths						
Metals	tonnes	10	...	...	...	* 6
Rare earth compounds	tonnes	6 804	4 721	4 469	4 125	2 129
Salt	tonnes	78 483	72 445	72 149	73 931	73 254
Silver						
Metal	kilograms	10 100	3 100	5 800	2 900	3 200
Talc	tonnes	295	418	331	332	373
Tantalum and niobium						
Tantalum	tonnes	5	5	6	—	37
Titanium						
Metal	tonnes	74	393	97	50	82
Oxides	tonnes	2 193	2 548	2 106	1 349	1 409
Zinc						
Unwrought (a)	tonnes	7 253	4 362	7 676	1 595	5 978

Note(s)

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

Finland

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	54 000 000	59 000 000	25 000 000	16 000 000	* 16 000 000
Crushed rock	tonnes	46 000 000	54 000 000	60 000 000	47 000 000	* 47 000 000
Cement						
Cement, finished (a)	tonnes	1 684 507	1 771 000	1 638 000	1 041 866	1 204 581
Chromium ores and concentrates	tonnes	549 000	556 000	614 000	247 000	598 000
Cobalt metal	tonnes	8 582	9 173	9 645	8 962	9 413
Cobalt, mine	tonnes (metal content)	* 100	* 120	* 100	* 27	* 30
Copper, mine	tonnes (metal content)	13 000	13 600	13 300	14 600	14 700
Copper, refined	tonnes	137 961	109 870	131 249	105 549	124 000
Copper, smelter	tonnes	164 306	118 911	142 154	110 479	112 687
Feldspar	tonnes	43 187	48 980	45 250	* 45 000	* 45 000
Gold, mine	kilograms (metal content)	1 307	1 639	1 336	3 808	5 644
Pig iron	tonnes	3 157 894	2 915 130	2 942 946	2 042 000	2 564 000
Crude steel	tonnes	5 053 714	4 430 726	4 416 792	3 066 000	4 030 000
Ferro-alloys						
Ferro-chrome	tonnes	243 350	241 760	233 550	123 310	238 000
Mercury	kilograms	22 820	45 195	33 120	6 210	9 000
Mica	tonnes	8 097	11 449	10 706	* 10 000	* 10 000
Nickel, smelter/refinery	tonnes	47 469	55 000	51 963	40 800	49 200
Nickel, mine	tonnes (metal content)	3 000	3 600	6 200	1 600	12 100
Phosphate rock	tonnes	857 922	830 989	780 000	660 405	* 820 000
Selenium metal	tonnes	70	52	65	66	* 66
Silver, mine	kilograms (metal content)	50 843	44 895	69 906	69 600	69 600
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	199 700	194 400	226 000	153 600	250 000
Recovered (b)	tonnes (sulphur content)	325 793	* 326 000	331 000	273 600	272 000
Recovered (c)	tonnes (sulphur content)	70 000	125 000	117 000	127 000	122 000
Talc	tonnes	547 146	535 882	527 686	* 500 000	* 500 000
Wollastonite	tonnes	16 200	16 364	15 600	* 16 000	* 16 000
Slab zinc	tonnes	282 238	305 543	297 722	295 049	307 144
Zinc, mine	tonnes (metal content)	35 700	38 900	27 800	30 233	55 562

Note(s)

(1) Finland is also believed to produce arsenic

(a) Sales

(b) From metal sulphide processing

(c) From petroleum refining and/or natural gas

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	735 655	837 957	850 685	645 609	1 396 025
Aluminium and bauxite						
Unwrought alloys	tonnes	11 411	12 924	14 239	8 939	15 346
Scrap	tonnes	25 921	38 364	37 345	34 910	33 304
Bentonite and fuller's earth						
Bentonite	tonnes	232	115	42	803	0
Cement						
Portland cement	tonnes	647	982	2 618	1 275	373
Other cement	tonnes	...	...	...	...	...
Chromium						
Ores and concentrates	tonnes	1 570	2 492	3 041	2 050	8 291
Metal	tonnes	5	—	1 034	1 577	1 813
Cobalt						
Metal (a)	tonnes	* 5 700	* 5 700	* 5 700	* 4 500	* 3 900
Oxides (a)	tonnes	* 2 200	* 2 400	* 2 600	* 3 100	* 5 400

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Unwrought, unrefined	tonnes	34 962	10 490	27 525	37 084	35 132
Unwrought, refined	tonnes	55 239	32 956	67 908	40 864	57 665
Unwrought alloys	tonnes	1 533	587	423	275	304
Scrap	tonnes	31 182	32 872	32 585	32 762	32 819
Feldspar	tonnes	41 437	37 392	36 482	26 613	31 844
Gold						
Waste and scrap	kilograms	886	200	466	539	878
Graphite	tonnes	2	46 162	0	5	8
Iron ore						
Burnt pyrites	tonnes	67 503	146 844	396 064	244 225	391 549
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 045	0	14 070	11 317	2 564
Ferro-chrome	tonnes	37 663	100 022	37 709	61 319	126 713
Ingots, blooms, billets	tonnes	284 313	185 229	281 325	253 440	263 863
Scrap	tonnes	220 124	253 732	308 047	276 010	229 680
Kaolin	tonnes	8 373	10 597	8 587	13 832	18 176
Lead						
Scrap	tonnes	2 421	605	588	357	340
Manganese						
Metal	tonnes	0	31	98	341	32
Mercury	kilograms	24 859	45 600	35 000	6 211	9 321
Mica						
Ground	tonnes	6 603	8 956	7 138	6 125	11 377
Nickel						
Ores and concentrates	tonnes	—	—	14 069	—	8 946
Unwrought	tonnes	37 747	(b) 43 428	40 108	37 202	(b) 31 275
Scrap	tonnes	47	441	27	1 511	323
Oxides (a)	tonnes	* 600	* 600	* 500	* 200	* 500
Natural gas	tonnes	—	1 218	1 420	4 557	9 052
Phosphate rock	tonnes	1 141	6 942	3 248	3 796	52 006
Platinum metals						
Platinum and platinum metals	kilograms	23	19	30	34 126	6 238
Waste and scrap	kilograms	713	463	218	267	723
Potash						
Sulphate	tonnes	(a)* 7 900	49 485	17 181	45 818	53 850
Chloride	tonnes	65 003	50 342	50 822	26	178
Rare earths						
Metals	tonnes	...	104	...	—	—
Rare earth compounds	tonnes	1	1	103	0	44
Salt	tonnes	531	424	336	336	11 380
Silver						
Ores and concentrates	kilograms	262 669	700	38	—	—
Metal	kilograms	6 041	3 400	3 400	1 680	1 162
Sulphur and pyrites						
Pyrites (a)	tonnes	* 73 000	* 90 000	* 386 000	* 88 000	* 198 000
Sulphur	tonnes	3 674	3 513	2 521	35 701	2 715
Talc (a)	tonnes	* 246 000	* 284 000	* 320 000	* 174 000	* 222 000
Tin						
Unwrought (b)	tonnes	95	56	77	36	36
Scrap	tonnes	89	201	193	124	142
Titanium						
Metal	tonnes	35	30	11	14	42
Oxides (a)	tonnes	* 103 000	* 103 000	* 106 000	* 86 000	* 88 000
Tungsten						
Metal	tonnes	80	113	360	291	450
Zinc						
Unwrought (b)	tonnes	233 231	260 434	257 411	268 893	266 738
Scrap	tonnes	1 650	1 274	964	1 012	1 369

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	254 665	326 347	280 600	330 108	284 066
Aluminium and bauxite						
Bauxite	tonnes	6 366	4 909	10 461	1 584	9 294
Alumina	tonnes	2 327	3 296	2 350	1 733	2 401
Alumina hydrate	tonnes	31 024	37 163	22 243	20 614	29 607
Unwrought	tonnes	1 145	1 213	1 332	1 204	2 008
Unwrought alloys	tonnes	39 755	49 299	41 635	29 303	37 539
Scrap	tonnes	14 906	19 051	21 978	10 998	15 466
Antimony						
Oxide	tonnes	256	281	160	101	116
Barytes	tonnes	4 498	5 018	4 735	2 573	4 406
Bentonite and fuller's earth						
Bentonite	tonnes	32 520	37 741	31 445	19 429	16 293
Fuller's earth	tonnes	109	...	...	...	...
Bromine	kilograms	36 158	100	146 800	242 982	318 478
Cement						
Cement clinkers	tonnes	95 730	314 436	236 439	536	14 191
Portland cement	tonnes	380 296	341 748	281 924	320 084	587 410
Other cement	tonnes	12 176	16 006	15 911	12 232	10 202
Chromium						
Ores and concentrates	tonnes	8 388	9 324	8 866	4 521	9 197
Metal	tonnes	575	282	327	105	139
Coal						
Hard coal (a)	tonnes	6 683 990	6 669 717	5 671 385	5 937 153	5 919 757
Cobalt						
Ore	tonnes	31 186	26 449	26 500	15 146	9 867
Metal	tonnes	26 928	27 590	36 405	24 002	30 623
Oxides	tonnes	186	346	167	46	233
Copper						
Ores and concentrates	tonnes	544 149	448 119	536 584	352 370	458 174
Unwrought	tonnes	21	2 777	2 490	16 298	4 212
Unwrought alloys	tonnes	3 996	4 178	3 542	2 415	2 783
Scrap	tonnes	1 259	2 644	4 146	7 349	6 967
Diamond						
Gem, cut	carats	£3 264 000	£3 004 000	£3 698 000	£3 133 000	£3 575 000
Dust	carats	620 000	682 850	625 200	273 415	519 830
Diatomite	tonnes	2 339	3 510	3 344	3 015	4 367
Feldspar	tonnes	796	1 023	699	851	1 209
Fluorspar	tonnes	15 011	15 064	12 366	23 178	16 740
Gypsum						
Crude	tonnes	310 245	423 355	408 509	146 141	235 787
Calcined	tonnes	9 958	8 588	6 598	5 664	7 281
Iodine	kilograms	2 066	3 400	3 400	2 901	1 443
Iron ore	tonnes	3 481 019	3 156 096	3 121 303	2 204 018	(b) 3 052 609
Iron, steel and ferro-alloys						
Pig iron	tonnes	45 364	53 901	42 681	18 097	36 120
Sponge and powder	tonnes	779 146	880 575	942 664	493 087	872 476
Ferro-chrome	tonnes	17 926	9 650	11 182	5 094	7 055
Ferro-silico-magnesium	tonnes	3 993	3 989	3 768	1 337	4 838
Ferro-manganese	tonnes	14 828	18 138	15 709	5 985	10 595
Ferro-silico-manganese	tonnes	38 440	34 994	34 139	20 642	30 204
Ferro-molybdenum	tonnes	1 948	1 892	1 730	584	1 316
Ferro-nickel	tonnes	53 741	54 106	50 294	17 098	25 746
Ferro-niobium	tonnes	493	570	757	318	629
Ferro-phosphorus	tonnes	550	560	380	285	543
Ferro-silicon	tonnes	36 659	31 814	29 740	21 437	31 395
Ferro-titanium and ferro-silico-titanium	tonnes	1 558	1 707	1 857	710	1 043
Other ferro-alloys	tonnes	259	311	425	91	235
Silicon metal	tonnes	1 402	1 318	1 638	548	1 390
Ingots, blooms, billets	tonnes	5 138	7 649	11 114	30 206	18 268
Scrap	tonnes	1 013 675	687 887	596 792	467 642	754 398
Kaolin	tonnes	1 261 699	1 155 041	1 147 687	708 210	941 387
Lead						
Unwrought	tonnes	1 571	2 283	3 195	2 346	1 512
Lithium						
Carbonate	tonnes	85	73	84	41	92

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Magnesite and magnesia						
Magnesia	tonnes	9 540	15 989	8 692	6 439	7 387
Manganese						
Ores and concentrates	tonnes	10 433	27 251	24 926	12 224	21 961
Metal	tonnes	2 182	2 379	2 649	912	2 134
Mercury	kilograms	38	200	209	2 136	2 203
Mica	tonnes	2 874	4 098	4 383	1 988	3 647
Molybdenum						
Ores and concentrates	tonnes	9 270	5 789	3 498	40	—
Nickel						
Mattes, sinters etc	tonnes	45 851	50 856	33 247	22 715	33 986
Ores and concentrates	tonnes	190 233	256 932	290 914	185 202	217 164
Unwrought	tonnes	27 465	15 455	18 187	9 192	14 558
Unwrought alloys	tonnes	474	2	14	792	17 649
Scrap	tonnes	757	299	481	149	17
Crude petroleum	tonnes	12 176 669	12 221 330	11 908 304	11 516 562	11 211 580
Natural gas	tonnes	4 402 041	5 822 601	6 028 908	—	3 252 037
Phosphate rock	tonnes	86 734	113 286	118 749	—	28 144
Potash						
Chloride	tonnes	315 257	148 400	120 158	(c)* 98 200	(c)* 318 000
Other potassic fertilisers	tonnes	390	663	184	74	117
Rare earths						
Cerium compounds	tonnes	117	92	101	57	72
Other rare earth compounds	tonnes	21	5	7	9	8
Salt	tonnes	401 961	409 761	397 033	417 495	384 089
Silver						
Metal	kilograms	64 504	55 400	44 800	(c)* 47 900	50 681
Sulphur and pyrites						
Sulphur	tonnes	11 925	415	9 073	1 673	21 676
Talc	tonnes	757	663	503	525	1 202
Tin						
Unwrought (d)	tonnes	173	166	184	94	188
Titanium						
Titanium minerals	tonnes	34 403	20 578	26 200	8 794	...
Oxides	tonnes	14 788	15 838	14 256	12 524	15 571
Tungsten						
Metal	tonnes	21	130	296	205	403
Zinc						
Ores and concentrates	tonnes	520 081	555 569	582 049	532 036	559 918
Unwrought (d)	tonnes	1 443	4 513	4 242	3 705	4 374

Note(s)

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

France

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	174 360 000	180 450 000	171 610 000	146 290 000	141 290 000
Crushed rock	tonnes	233 090 000	242 950 000	236 770 000	209 440 000	201 860 000
Bauxite	tonnes	160 000	160 000	* —	* —	* —
Alumina	tonnes	636 000	600 000	630 000	348 000	481 000
Primary aluminium	tonnes	442 879	430 159	389 000	345 000	356 000
Barytes	tonnes	* 40 000	—	—	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	...	...	...	25 000	25 000
Cadmium	tonnes	90	50	—	—	—
Cement						
Cement, clinker	tonnes	17 731 000	18 046 000	16 885 000	14 568 000	14 901 000
Cement, finished	tonnes	22 268 000	22 268 000	21 443 000	18 300 000	17 998 000
Cobalt	tonnes	256	305	311	368	302
Diatomite	tonnes	* 75 000	* 75 000	* 75 000	75 000	75 000
Feldspar	tonnes	* 650 000	* 650 000	* 650 000	650 000	650 000
Fluorspar	tonnes	* 40 000	—	—	—	—
Gypsum (a)	tonnes	* 4 800 000	* 4 800 000	2 339 380	3 351 339	4 500 000
Pig iron	tonnes	12 873 900	12 425 703	11 371 879	8 104 318	10 136 827
Crude steel	tonnes	19 852 125	19 249 862	17 879 161	12 840 108	15 413 577
Ferro-alloys						
Ferro-manganese and spiegeleisen	tonnes	139 533	98 066	* 100 000	* 100 000	* 100 000
Ferro-silico-manganese	tonnes	63 300	* 65 400	* 60 200	* 54 100	* 54 000
Ferro-silicon	tonnes	* 67 000	* 71 000	* 25 000	* 25 000	* 25 000
Silicon metal	tonnes	* 85 000	* 85 000	* 85 000	* 51 000	* 51 000
Kaolin	tonnes	* 300 000	(b) 350 742	(b) 335 520	(b) 227 342	350 000
Lead, refined	tonnes	88 000	* 88 000	82 100	62 000	71 000
Mica (c)	tonnes	* 20 000	* 20 000	* 20 000	8 000	8 000
Nickel, smelter/refinery	tonnes	13 700	14 800	13 700	13 900	14 400
Crude petroleum	tonnes	1 100 000	1 013 000	975 000	899 000	* 800 000
Natural gas	million m ³	1 167	1 023	925	813	* 800
Salt	tonnes	9 371 000	6 139 840	* 6 000 000	6 100 000	* 6 000 000
Sillimanite minerals						
Andalusite	tonnes	* 65 000	* 65 000	* 65 000	* 65 000	* 65 000
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	616 234	605 820	* 590 000	590 000	570 000
Talc	tonnes	* 420 000	* 420 000	* 420 000	* 420 000	* 420 000
Slab zinc	tonnes	120 000	129 000	118 000	161 000	162 000

Note(s)

- (1) France may produce fuller's earth
 (2) 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) From petroleum refining and/or natural gas

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	8 928 358	8 383 027	8 565 175	7 586 323	8 142 237
Aluminium and bauxite						
Bauxite	tonnes	46 042	26 661	12 295	9 296	12 116
Unwrought	tonnes	65 943	45 503	46 364	91 682	51 275
Unwrought alloys	tonnes	148 253	136 803	139 176	125 580	166 807
Alumina	tonnes	224 866	276 207	319 388	178 570	270 769
Alumina hydrate	tonnes	168 250	146 531	130 881	100 293	131 035
Scrap	tonnes	345 107	380 708	344 436	345 372	405 847
Antimony						
Metal	tonnes	53	19	44	34	145
Oxide	tonnes	4 964	6 109	6 261	6 788	6 853
Arsenic						
Metallic arsenic	tonnes	15	3	5	9	5
Barytes (a)	tonnes	* 36 300	* 37 100	* 10 000	* 11 500	* 10 500
Bentonite and fuller's earth						
Bentonite	tonnes	9 788	13 454	12 231	9 211	12 709
Bismuth						
Metal	tonnes	24	52	74	6	20
Cadmium						
Metal	tonnes	798	815	890	1 022	763
Cement						
Cement clinkers	tonnes	325 352	325 897	260 529	170 883	282 673
Portland cement	tonnes	683 110	590 684	578 230	621 568	766 167
Other cement	tonnes	113 145	13 999	10 056	—	—
Chromium						
Ores and concentrates	tonnes	2 013	2 391	4 694	1 935	2 422
Metal	tonnes	6 457	7 225	7 844	4 767	7 612
Coal						
Anthracite	tonnes	10 442	13 161	57 436	5 272	9 551
Other coal	tonnes	128 523	200 682	128 614	91 266	121 733
Briquettes	tonnes	2 075	2 013	1 380	6 045	4 495
Cobalt						
Metal	tonnes	709	1 006	859	706	785
Oxides	tonnes	68	91	28	50	3
Copper						
Matte and cement	tonnes	79	331	252	720	102
Unwrought	tonnes	47 839	67 765	55 405	60 428	35 979
Unwrought alloys	tonnes	9 680	13 140	13 049	9 455	12 786
Scrap	tonnes	290 528	284 890	266 930	235 277	292 631
Diamond						
Unsorted	Carats	40 105	22 863	9 386	8 723	3 743
Gem	Carats	164 433	227 372	293 420	394 845	146 000
Dust	Carats	1 069 100	428 165	838 620	940 610	1 609 470
Diatomite	tonnes	24 866	29 607	23 239	21 713	26 822
Feldspar	tonnes	224 062	261 112	244 785	182 575	226 149
Gold						
Metal	kilograms	24 302	20 229	22 247	22 447	27 729
Waste and scrap	kilograms	29 600	29 300	50 700	34 094	24 189
Graphite	tonnes	85	163	269	226	361
Gypsum						
Crude	tonnes	321 789	414 428	381 841	267 315	259 192
Calcined	tonnes	349 703	356 716	338 682	282 254	286 799
Iodine	kilograms	51 300	91 100	100 500	101 909	47 103
Iron ore	tonnes	76 097	69 376	57 720	124 492	(b) 19 349

France

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	113 729	89 768	88 462	151 699	52 439
Sponge and powder	tonnes	13 059	17 948	14 698	5 261	18 917
Ferro-chrome	tonnes	875	1 217	2 098	2 217	2 447
Ferro-silico-magnesium	tonnes	2 165	16 377	28 255	10 787	39 115
Ferro-manganese	tonnes	7 483	8 049	2 457	2 882	2 200
Ferro-silico-manganese	tonnes	53 278	41 110	42 260	41 324	51 330
Ferro-molybdenum	tonnes	673	481	374	379	548
Ferro-niobium	tonnes	596	948	984	261	505
Ferro-silicon	tonnes	63 432	50 334	73 824	51 676	77 144
Ferro-titanium and ferro-silico-titanium	tonnes	1 992	2 292	1 493	844	1 869
Other ferro-alloys	tonnes	22 699	357	150	10 612	6 180
Ingots, blooms, billets	tonnes	3 071 836	2 650 976	2 830 986	1 814 051	1 858 111
Scrap	tonnes	6 019 890	6 210 854	6 028 712	5 402 426	6 665 264
Kaolin	tonnes	968 538	412 284	319 301	268 674	272 778
Lead						
Unwrought	tonnes	25 933	14 936	17 630	14 554	36 293
Scrap	tonnes	21 854	29 544	15 888	20 815	37 654
Magnesite and magnesia						
Magnesite	tonnes	241	373	310	576	274
Magnesia	tonnes	47 832	48 852	57 342	35 523	52 553
Manganese						
Ores and concentrates (c)	tonnes	303 881	333 747	321 638	138 787	152 425
Metal	tonnes	415	327	488	631	717
Mercury	kilograms	27 300	9 100	1 700	718	1 595
Mica						
Ground	tonnes	12 794	13 490	13 881	10 758	11 892
Waste	tonnes	20	422	...	...	1
Molybdenum						
Ores and concentrates	tonnes	512	485	55	75	205
Nickel						
Unwrought	tonnes	11 761	12 308	10 754	12 095	9 376
Unwrought alloys	tonnes	999	1 475	2 475	1 377	1 307
Scrap	tonnes	7 826	7 578	7 558	11 435	30 601
Crude petroleum	tonnes	2 675	190	65	1 689	161 761
Natural gas	tonnes	11 501 866	10 247 611	22 087 224	3 469 724	2 908 272
Phosphate rock	tonnes	10 147	15 919	96 127	(a)* 22 000	(a)* 18 000
Platinum metals						
Platinum	kilograms	5 283	4 758	2 033	1 140	1 884
Other platinum metals	kilograms	3 565	2 800	2 120	1 396	914
Waste and scrap	kilograms	383 300	190 100	282 400	609 699	179 798
Potash						
Sulphate	tonnes	32 887	33 446	34 777	18 248	17 085
Chloride	tonnes	3 185	8 166	11 416	9 858	36 215
Other potassic fertilisers	tonnes	221	278	327	414	1 788
Rare earths						
Rare earth compounds	tonnes	2 185	2 545	1 854	1 244	3 411
Metals	tonnes	24	11	11	3	8
Ferro-cerium and other pyrophoric alloys	tonnes	85	133	—	0	...
Salt	tonnes	254 487	363 438	231 953	277 617	297 909
Sillimanite minerals	tonnes	59 002	66 776	66 242	38 494	49 011
Silver						
Ores and concentrates	kilograms	...	26 500	51 100	1 597 157	—
Metal	kilograms	228 673	208 832	215 148	169 806	258 205
Sulphur and pyrites						
Sulphur	tonnes	294 003	59 934	246 005	313 229	296 345
Sulphur, sublimed and precipitated	tonnes	619	680	2 843	445	565
Talc	tonnes	273 706	276 014	269 771	224 419	270 494
Tantalum and niobium						
Tantalum	tonnes	9	21	18	37	20
Tin						
Concentrates	tonnes	21	4	16	44	341
Unwrought	tonnes	368	552	441	402	423
Unwrought alloys	tonnes	1 010	884	236	140	143
Scrap	tonnes	893	590	654	282	342

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Titanium						
Titanium minerals	tonnes	116	2 242	93	150	283
Metal	tonnes	5 722	5 112	5 391	4 523	4 907
Oxides	tonnes	167 807	171 337	148 573	113 798	129 197
Tungsten						
Metal	tonnes	617	1 148	676	398	473
Carbide	tonnes	343	431	354	261	288
Vanadium						
Metal	tonnes	63	...	...	...	...
Zinc						
Ores and concentrates	tonnes	47 516	51 781	78 398	39 350	49 652
Unwrought	tonnes	31 960	29 305	31 601	64 773	79 727
Unwrought alloys	tonnes	12 205	7 238	5 073	9 362	1 851
Scrap	tonnes	71 224	56 200	43 770	45 986	51 755
Zirconium						
Concentrates	tonnes	2 316	1 832	1 440	1 243	2 044

Note(s)

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

(b) Including burnt pyrites

(c) Including manganiferous iron ore

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	12 064 403	11 381 954	11 214 300	10 907 837	9 838 820
Aluminium and bauxite						
Bauxite	tonnes	1 664 642	2 001 899	1 788 358	1 024 569	984 804
Alumina	tonnes	667 146	710 029	722 371	849 798	734 935
Alumina hydrate	tonnes	45 085	46 584	51 289	46 113	47 336
Unwrought	tonnes	198 042	147 693	113 771	87 130	103 937
Unwrought alloys	tonnes	394 929	449 505	396 382	311 287	364 962
Scrap	tonnes	208 142	191 897	197 876	216 872	260 871
Antimony						
Metal	tonnes	8 919	8 568	9 078	7 682	9 068
Oxide	tonnes	2 092	3 315	1 923	1 277	1 577
Arsenic						
Metallic arsenic	tonnes	20	19	8	4	17
Asbestos						
Unmanufactured	tonnes	52	169	120	34	42
Barytes	tonnes	24 471	40 760	34 166	26 227	41 513
Bentonite and fuller's earth						
Bentonite	tonnes	220 996	243 350	198 787	158 715	159 096
Fuller's earth	tonnes	23 522	...	...	...	...
Bismuth						
Metal	tonnes	547	382	219	102	100
Bromine	kilograms	13 971 600	12 146 400	12 428 800	11 720 470	5 275 994
Cadmium						
Metal	tonnes	527	771	645	455	212
Oxide	tonnes	593	885	1 114	605	18
Cement						
Cement clinkers	tonnes	1 010 056	1 739 962	1 338 362	784 892	838 538
Portland cement	tonnes	1 556 864	1 793 027	1 940 065	1 744 423	2 422 582
Other cement	tonnes	1 120 524	1 223 442	1 185 083	980 685	559 436
Chromium						
Ores and concentrates	tonnes	23 031	20 156	26 952	10 813	11 273
Metal	tonnes	1 040	717	1 335	478	1 155
Coal						
Anthracite	tonnes	3 018 025	3 532 378	2 817 048	1 914 614	2 291 609
Other coal	tonnes	16 372 754	15 425 960	18 470 782	13 893 343	16 688 152
Lignite	tonnes	36 436	51 589	68 426	51 577	52 076
Briquettes	tonnes	147 381	175 350	154 140	151 863	129 465

France

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Cobalt						
Metal	tonnes	2 117	3 137	2 251	1 203	1 681
Oxides	tonnes	562	658	574	578	635
Copper						
Unwrought	tonnes	506 996	432 225	435 455	265 766	227 271
Unwrought alloys	tonnes	11 029	14 389	8 987	7 980	9 242
Scrap	tonnes	97 462	90 195	81 036	50 753	72 220
Diamond						
Unsorted	carats	45 393	32 997	18 648	15 326	9 402
Gem, rough	carats	729	656	344	1 854	469
Gem, cut	carats	331 348	439 204	450 568	691 852	468 867
Industrial	carats	44 334	81 570	73 641	40 221	30 480
Dust	carats	10 037 456	8 984 745	13 938 146	9 314 960	12 512 821
Diatomite	tonnes	12 712	14 371	14 308	15 163	17 477
Feldspar	tonnes	54 106	20 974	59 857	43 981	31 721
Fluorspar	tonnes	34 972	48 758	21 256	13 124	14 601
Gold						
Metal	kilograms	23 605	23 567	20 071	16 877	20 037
Waste and scrap	kilograms	1 500	1 100	3 300	6 248	25 070
Graphite	tonnes	19 430	19 250	20 618	10 376	9 981
Gypsum						
Crude	tonnes	588 367	580 341	492 072	354 086	313 842
Calcined	tonnes	68 652	111 325	116 678	101 840	85 849
Iodine	kilograms	1 929 100	1 687 900	1 875 400	1 189 569	1 530 436
Iron ore						
Iron ore	tonnes	19 463 057	20 065 037	18 220 893	10 014 901	15 259 049
Burnt pyrites	tonnes	3 451	2 107	4 948	5 375	11 603
Iron, steel and ferro-alloys						
Pig iron	tonnes	183 755	195 466	202 077	115 722	139 186
Sponge and powder	tonnes	219 813	147 662	89 809	26 695	52 795
Ferro-chrome	tonnes	159 940	106 513	111 584	71 570	111 080
Ferro-silico-chrome	tonnes	677	8	69	20	50
Ferro-silico-magnesium	tonnes	18 536	26 899	26 786	12 067	17 244
Ferro-manganese	tonnes	57 240	63 487	69 464	33 948	44 405
Ferro-silico-manganese	tonnes	49 287	45 827	54 004	34 758	35 405
Ferro-molybdenum	tonnes	5 223	5 650	5 637	3 263	3 720
Ferro-nickel	tonnes	4 487	6 373	5 887	12 709	7 724
Ferro-niobium	tonnes	2 597	2 785	3 266	1 183	2 195
Ferro-phosphorus	tonnes	2 360	2 528	2 698	1 670	2 656
Ferro-silicon	tonnes	64 727	52 945	61 740	30 913	51 906
Ferro-titanium and ferro-silico-titanium	tonnes	9 037	10 009	8 293	2 647	5 457
Ferro-tungsten and ferro-silico-tungsten	tonnes	839	597	666	247	343
Ferro-vanadium	tonnes	1 396	1 432	1 575	819	1 065
Silicon metal	tonnes	21 813	19 659	23 885	15 243	19 135
Ingots, blooms, billets	tonnes	1 557 219	1 998 943	1 747 005	1 113 710	1 807 094
Scrap	tonnes	3 319 269	3 197 843	3 241 199	2 407 619	2 450 993
Kaolin	tonnes	320 425	311 060	263 449	200 203	231 779
Lead						
Unwrought	tonnes	121 930	118 384	103 535	42 187	34 090
Scrap	tonnes	32 705	34 169	22 490	13 579	12 848
Lithium						
Oxides	tonnes	369	314	256	362	570
Carbonate	tonnes	1 186	1 289	1 251	1 172	1 137
Magnesite and magnesia						
Magnesite	tonnes	2 509	2 355	2 378	1 209	784
Magnesia	tonnes	161 029	163 908	164 235	117 821	126 821
Manganese						
Ores and concentrates (a)	tonnes	611 043	678 369	876 961	193 684	721 272
Metal	tonnes	11 131	15 198	19 115	8 905	17 586
Mercury	kilograms	138 100	190 000	105 300	222 224	19 073
Mica						
Unmanufactured	tonnes	657	197	1 144	370	255
Ground	tonnes	2 017	2 335	2 031	1 844	1 861
Molybdenum						
Ores and concentrates	tonnes	1 896	1 511	1 933	769	1 209
Metal	tonnes	1 075	830	1 094	541	888
Oxides	tonnes	579	670	1 191	1 018	1 095

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Nickel						
Mattes, sinters etc	tonnes	19 818	19 864	18 952	20 015	19 921
Ores and concentrates	tonnes	149	1 131	413	1 783	265
Unwrought	tonnes	26 631	25 752	23 368	10 909	13 964
Unwrought alloys	tonnes	5 500	7 702	9 386	5 364	5 029
Scrap	tonnes	2 393	1 341	2 166	1 265	2 164
Oxides	tonnes	297	542	560	310	524
Crude petroleum	tonnes	83 411 036	81 011 061	81 854 226	70 343 956	59 946 970
Natural gas	tonnes	62 023 544	75 216 254	79 101 617	32 440 935	41 624 014
Phosphate rock	tonnes	387 794	442 826	374 792	130 323	305 259
Platinum metals						
Platinum	kilograms	4 455	6 263	8 471	3 633	4 516
Other platinum metals	kilograms	3 711	3 631	4 404	5 348	3 006
Waste and scrap	kilograms	370 600	114 300	241 200	359 138	143 885
Potash						
Fertiliser salts	tonnes	712	...	...	...	...
Sulphate	tonnes	33 195	58 088	53 124	12 477	51 068
Chloride	tonnes	777 056	900 560	837 119	242 713	626 635
Other potassic fertilisers	tonnes	11 432	16 601	18 484	7 287	13 998
Rare earths						
Cerium compounds	tonnes	9 723	8 831	9 116	6 112	5 687
Other rare earth compounds	tonnes	1 329	1 232	768	874	1 408
Metals	tonnes	479	417	447	402	372
Ferro-cerium and other pyrophoric alloys	tonnes	3	2	3	26	83
Salt	tonnes	1 024 789	592 976	578 882	918 448	1 653 101
Sillimanite minerals	tonnes	4 813	6 026	6 255	4 536	5 773
Silver						
Ores and concentrates	kilograms	16 300	39 800	21 300	4 279	4 433 810
Metal	kilograms	734 679	643 280	544 821	435 001	954 773
Sulphur and pyrites						
Pyrites	tonnes	2 533	160	173	159	183
Sulphur	tonnes	72 785	56 072	50 092	55 212	78 366
Sulphur, sublimed and precipitated	tonnes	2 439	797	5 861	403	410
Talc	tonnes	59 853	77 772	76 147	72 274	59 722
Tantalum and niobium						
Tantalum	tonnes	55	83	84	43	22
Tin						
Unwrought	tonnes	8 159	7 689	6 506	5 869	5 787
Unwrought alloys	tonnes	931	409	554	207	389
Scrap	tonnes	182	432	588	259	100
Titanium						
Ilmenite	tonnes	83 499	60 739	58 423	17 766	...
Other titanium minerals	tonnes	78 849	71 292	12 531	11 964	(b) 50 893
Titanium slag	tonnes	107 092	91 602	80 726	85 776	...
Metal	tonnes	9 431	10 521	10 036	7 282	7 766
Oxides	tonnes	135 309	126 786	128 226	136 389	148 994
Tungsten						
Metal	tonnes	925	823	898	547	867
Carbide	tonnes	898	866	859	311	359
Vanadium						
Pentoxide	tonnes	533	656	674	371	574
Metal	tonnes	71	...	...	...	...
Zinc						
Ores and concentrates	tonnes	250 791	259 750	238 502	241 976	222 580
Unwrought	tonnes	170 263	166 110	164 172	128 674	131 993
Unwrought alloys	tonnes	47 309	44 124	45 480	27 000	34 205
Scrap	tonnes	7 833	7 247	3 694	4 604	3 003
Zirconium						
Concentrates	tonnes	48 973	47 719	55 030	25 087	25 310
Metal	tonnes	378	570	456	553	326

Note(s)

(a) Including manganiferous iron ore

(b) Includes Ilmenite

Germany

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	266 000 000	263 300 000	260 000 000	245 000 000	239 000 000
Crushed rock	tonnes	138 700 000	134 000 000	137 400 000	134 100 000	127 100 000
Alumina	tonnes (Al_2O_3 content)	* 850 000	* 900 000	* 1 000 000	1 154 000	* 1 000 000
Primary aluminium	tonnes	515 539	551 000	605 880	291 750	402 480
Barytes	tonnes	85 524	88 265	78 941	45 606	55 887
Bentonite and fuller's earth						
Bentonite	tonnes	363 998	384 709	414 336	326 461	362 623
Cadmium	tonnes	* 490	* 475	* 420	* 250	* 300
Cement						
Cement, clinker	tonnes	24 921 000	26 992 000	25 366 000	23 232 000	22 965 000
Cement, finished	tonnes	33 630 000	33 382 000	33 581 000	30 441 000	29 894 000
Coal						
Anthracite and bituminous	tonnes	23 762 000	24 185 000	19 143 000	14 971 000	14 110 000
Brown coal	tonnes	176 324 117	180 409 054	175 313 020	169 857 142	169 402 544
Copper, refined	tonnes	662 338	665 517	689 763	668 945	704 300
Copper, smelter	tonnes	273 800	270 200	295 000	251 000	378 700
Feldspar	tonnes	167 332	171 303	161 416	140 000	* 150 000
Fluorspar	tonnes	53 009	54 359	48 519	49 962	59 086
Gypsum (a)	tonnes	1 771 000	1 898 000	2 112 000	1 898 000	1 822 000
Iron ore (b)(c)	tonnes	416 000	421 711	455 100	363 699	390 353
Pig iron	tonnes	30 940 000	31 700 000	29 105 000	20 104 000	28 560 000
Crude steel	tonnes	47 223 000	48 550 000	45 832 000	32 670 000	43 830 000
Ferro-alloys						
Ferro-chrome	tonnes	26 710	22 030	26 960	13 667	...
Other ferro-alloys	tonnes	* 24 100	* 5 000	* 5 000	—	—
Silicon metal	tonnes	29 865	29 379	29 092	27 620	30 105
Kaolin (d)	tonnes	3 815 173	3 842 514	3 622 159	4 513 753	4 578 097
Lead, refined	tonnes	379 000	355 000	415 100	781 200	405 400
Crude petroleum	tonnes	3 515 401	3 415 374	3 053 998	2 800 063	2 511 174
Natural gas	million m ³	19 798	18 075	16 547	15 554	13 666
Potash						
Potassic salts	tonnes (K_2O content)	3 624 977	3 636 504	3 280 467	1 825 139	3 023 941
Salt						
Rock salt	tonnes	9 280 000	4 826 000	5 545 438	7 709 844	9 992 156
Brine salt	tonnes	1 001 000	1 010 000	989 208	1 862 630	2 118 484
Salt in brine	tonnes	7 189 000	7 558 000	7 306 745	* 7 300 000	* 4 500 000
Selenium metal	tonnes	* 250	* 250	* 250	* 230	* 250
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	1 706 200	1 650 100	1 578 000	1 504 000	1 455 000
Recovered (f)	tonnes (sulphur content)	42 500	35 900	39 000	565 000	513 000
Uranium, mine	tonnes (metal content)	65	41	—	—	* 8
Slab zinc	tonnes	342 566	294 735	292 284	* 153 000	165 000

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
- (3) In addition to the countries producing sillimanite minerals, synthetic mullite is known to be produced in Germany

- (a) Including anhydrite
- (b) Including manganeseiferous 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	2006	2007	2008	2009	2010
Primary aggregates	tonnes	25 912 337	29 024 954	29 470 321	27 973 749	25 337 558
Aluminium and bauxite						
Bauxite	tonnes	30 772	36 361	33 636	16 591	26 178
Unwrought	tonnes	72 132	61 090	75 386	67 356	111 815
Unwrought alloys	tonnes	360 157	361 917	359 628	288 023	361 396
Alumina	tonnes	313 586	282 245	305 514	382 750	424 236
Alumina hydrate	tonnes	717 433	672 561	634 635	461 601	551 817
Scrap	tonnes	675 261	770 042	702 739	753 218	823 810
Antimony						
Metal	tonnes	30	141	33	101	132
Oxide	tonnes	892	1 130	932	448	961
Arsenic						
Metallic arsenic	tonnes	20	32	41	31	57
Barytes	tonnes	33 947	43 104	38 111	45 360	—
Bentonite and fuller's earth						
Bentonite	tonnes	77 368	81 272	67 109	52 424	84 920
Fuller's earth	tonnes	1 378	...	...	...	...
Bismuth						
Metal	tonnes	534	901	276	143	178
Bromine	kilograms	4 600	3 400	14 400	6 031	6 119
Cadmium						
Metal	tonnes	...	...	287	276	523
Cement						
Cement clinkers	tonnes	687 056	1 051 733	1 120 078	467 042	680 552
Portland cement	tonnes	4 251 126	4 874 062	5 115 858	4 445 980	4 173 112
Other cement	tonnes	1 852 990	2 086 591	2 077 175	2 101 709	2 010 734
Chromium						
Ores and concentrates	tonnes	24 185	20 629	23 563	15 922	32 070
Metal	tonnes	2 877	3 114	5 379	4 685	4 606
Coal						
Anthracite	tonnes	...	7 444	16 575	179 880	222 458
Other coal	tonnes	305 046	309 501	518 629	129 955	31 492
Lignite	tonnes	27 801	140 400	425 680	523 720	696 279
Briquettes	tonnes	83 990	72 008	370 211	493 552	463 102
Cobalt						
Ore	tonnes	...	457	145	103	88
Metal	tonnes	1 602	2 067	1 588	1 067	1 481
Oxides	tonnes	140	158	158	69	102
Copper						
Ores and concentrates	tonnes	54 167	61 535	48 234	58 932	48 761
Matte and cement	tonnes	101	24	2	1	8 431
Unwrought, unrefined	tonnes	3 244	105	182	88	104
Unwrought, refined	tonnes	146 137	117 596	124 980	194 016	136 006
Unwrought alloys	tonnes	22 941	22 436	16 485	9 781	13 276
Scrap	tonnes	465 264	480 700	478 643	449 990	578 448
Diamond						
Unsorted (a)	Carats	* £994 000	* £760 000	* £1 285 000	* £775 000	* £863 000
Gem	Carats	175 658	157 055	153 893	125 735	...
Industrial	Carats	7 510	8 952	11 966	...	...
Dust	Carats	27 074 465	3 366 830	3 410 935	2 560 000	5 355 000
Diatomite	tonnes	11 500	7 949	7 189	5 035	5 361
Feldspar	tonnes	121 046	125 258	121 777	70 130	78 610
Fluorspar	tonnes	35 207	56 023	50 338	31 157	33 487
Gold						
Metal	kilograms	65 200	71 250	* 120 000	113 039	221 003
Waste and scrap	kilograms	7 500	14 800	4 800	62 603	904 379
Graphite	tonnes	20 777	23 993	18 950	12 722	20 583
Gypsum						
Crude	tonnes	391 494	423 152	447 140	393 691	430 977
Calcined	tonnes	1 471 660	1 703 212	1 775 467	1 290 391	1 558 288
Iodine						
Iodine	kilograms	340 600	183 200	97 400	112 690	62 331
Iron ore						
Iron ore	tonnes	18 294	17 770	34 495	4 497	22 373
Burnt pyrites	tonnes	6 623	7 491	12 700	10 865	7 994

Germany

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	180 939	145 453	153 917	86 491	180 542
Sponge and powder	tonnes	197 636	147 303	95 846	28 183	56 763
Ferro-chrome	tonnes	36 289	39 892	36 856	27 831	54 956
Ferro-silico-magnesium	tonnes	12 142	24 051	22 191	9 323	12 517
Ferro-manganese	tonnes	24 659	14 733	11 802	9 043	12 387
Ferro-silico-manganese	tonnes	9 748	8 684	10 354	4 436	3 377
Ferro-molybdenum	tonnes	3 499	3 636	3 858	3 229	3 174
Ferro-nickel	tonnes	115	2 116	1 036	1 725	7 869
Ferro-niobium	tonnes	1 130	1 149	1 057	321	538
Ferro-phosphorus	tonnes	977	839	477	475	1 452
Ferro-silicon	tonnes	53 963	51 343	63 858	63 214	95 683
Ferro-titanium and ferro-silico-titanium	tonnes	4 795	6 011	4 237	1 662	4 180
Ferro-tungsten and ferro-silico-tungsten	tonnes	423	480	460	339	640
Ferro-vanadium	tonnes	268	558	413	755	659
Other ferro-alloys	tonnes	10 720	...	...	...	...
Ingots, blooms, billets	tonnes	2 171 036	2 496 951	2 047 223	1 655 376	2 150 091
Scrap	tonnes	7 605 306	7 770 479	8 268 662	7 275 257	9 175 802
Kaolin	tonnes	463 804	507 867	498 165	374 313	389 927
Lead						
Ores and concentrates	tonnes	475	467	—	1 000	4 296
Unwrought	tonnes	126 790	136 609	177 129	204 075	203 077
Scrap	tonnes	8 390	17 799	13 133	13 100	9 892
Lithium						
Carbonate	tonnes	2 907	2 705	2 290	1 880	2 387
Magnesite and magnesia						
Magnesite	tonnes	132	463	22	140	229
Magnesia	tonnes	93 286	87 264	72 684	58 604	94 198
Manganese						
Ores and concentrates	tonnes	3 046	5 761	3 321	3 710	4 480
Metal	tonnes	19 757	15 414	12 921	6 727	8 243
Mercury	kilograms	40 000	42 300	111 100	120 587	110 405
Mica	tonnes	4 039	4 957	4 713	2 888	4 197
Molybdenum						
Ores and concentrates	tonnes	3 812	2 723	3 575	2 502	5 017
Metal	tonnes	2 958	346	2 857	725	763
Nickel						
Mattes, sinters etc	tonnes	9 285	18 473	20 202	8 687	13 981
Ores and concentrates	tonnes	8 901	2 520	316	1 619	2 673
Unwrought	tonnes	5 287	4 256	5 200	2 617	3 751
Unwrought alloys	tonnes	9 970	9 664	8 988	3 083	1 866
Scrap	tonnes	6 224	7 383	5 646	8 227	9 563
Crude petroleum	tonnes	344 965	196 926	40 011	265 799	180 515
Natural gas (a)	tonnes	* 36 880 000	* 17 703 000	* 19 648 000	* 11 354 000	* 14 165 000
Phosphate rock	tonnes	700	168	314	137	489
Platinum metals						
Platinum	kilograms	40 600	28 100	27 700	36 204	24 597
Palladium	kilograms	24 400	27 800	28 600	43 329	35 462
Other platinum metals	kilograms	16 000	22 300	24 700	65 029	33 299
Waste and scrap	kilograms	2 797 600	3 399 700	3 238 800	3 352 271	5 997 852
Potash						
Potassic fertilisers (b)(c)	tonnes	3 624 977	3 636 504	3 280 467	1 825 139	3 023 941
Rare earths						
Metals	tonnes	1	8	3	19	25
Rare earth compounds	tonnes	145	217	188	652	601
Salt	tonnes	3 943 083	2 787 088	2 782 861	2 744 985	3 097 654
Sillimanite minerals	tonnes	13 257	16 143	18 231	7 965	13 379
Silver						
Metal	kilograms	2 995 900	2 884 200	3 012 400	2 169 994	3 397 674
Sulphur and pyrites						
Pyrites	tonnes	486	741	485	320	755
Sulphur	tonnes	796 341	828 544	654 808	681 563	671 836
Talc	tonnes	4 790	5 394	6 382	3 662	4 773
Tantalum and niobium						
Tantalum	tonnes	294	199	299	8	18

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Tin						
Concentrates	tonnes	331	—	—	163	32
Unwrought	tonnes	1 015	1 246	1 612	1 000	1 253
Unwrought alloys	tonnes	392	1 371	1 530	1 088	956
Scrap	tonnes	965	1 222	1 649	1 129	1 440
Titanium						
Titanium minerals	tonnes	490	776	3 322	6 864	22 384
Metal	tonnes	8 893	8 713	8 278	5 367	9 351
Oxides	tonnes	400 832	409 495	367 545	351 872	391 981
Tungsten						
Metal	tonnes	4 320	3 020	4 687	2 655	3 119
Vanadium						
Ores and concentrates	tonnes	2 372	...	...	...	...
Pentoxide	tonnes	1 444	1 250	1 173	...	...
Metal	tonnes	573	...	...	...	...
Zinc						
Ores and concentrates	tonnes	2 336	612	1 835	888	1 674
Unwrought	tonnes	65 824	77 443	70 724	63 165	52 483
Unwrought alloys	tonnes	29 999	30 439	28 835	24 163	31 857
Scrap	tonnes	54 939	59 297	51 801	68 648	74 208
Zirconium						
Concentrates (a)	tonnes	* 11 500	* 16 900	* 12 000	* 7 300	* 10 800
Metal	tonnes	434	514	625	386	384

Note(s)

- (a) BGS estimates, based on known imports to certain countries
 (b) K₂O content
 (c) Including sulphate, chloride and other potassic fertilisers

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	11 147 034	11 913 688	13 369 162	12 866 444	11 936 108
Aluminium and bauxite						
Bauxite	tonnes	2 143 631	3 141 693	2 995 241	2 069 109	2 005 053
Alumina	tonnes	912 564	790 515	1 017 746	518 456	661 379
Alumina hydrate	tonnes	219 035	266 042	241 736	168 216	260 488
Unwrought	tonnes	754 311	786 506	693 075	495 511	799 780
Unwrought alloys	tonnes	1 318 713	1 444 289	1 370 179	1 157 271	1 591 991
Scrap	tonnes	539 367	613 084	543 839	362 582	479 413
Antimony						
Metal	tonnes	421	612	700	552	494
Oxide	tonnes	8 305	8 527	8 672	5 072	7 986
Arsenic						
Metallic arsenic	tonnes	...	...	...	...	69
Asbestos						
Unmanufactured	tonnes	61	54	54	36	72
Barytes	tonnes	272 526	320 702	278 335	129 220	263 839
Bentonite and fuller's earth						
Bentonite	tonnes	323 999	351 991	361 782	335 990	386 261
Fuller's earth	tonnes	9 371	...	...	...	...
Bismuth						
Metal	tonnes	1 337	1 130	1 262	881	1 052
Bromine	kilograms	801 100	607 500	646 400	456 893	657 303
Cadmium						
Metal	tonnes	7	22	53	11	18
Oxide	tonnes	337	423	507	522	625
Cement						
Cement clinkers	tonnes	235 023	92 757	14 184	9 200	18 037
Portland cement	tonnes	794 716	833 311	770 566	904 023	939 310
Other cement	tonnes	345 286	311 152	293 583	272 741	255 027

Germany

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Chromium						
Ores and concentrates	tonnes	126 874	154 367	175 277	45 684	101 972
Metal	tonnes	7 552	8 454	7 022	3 328	4 783
Coal						
Anthracite	tonnes	2 499 908	4 353 426	4 137 690	3 893 429	3 643 048
Other coal	tonnes	35 218 836	37 993 445	37 215 220	30 926 568	34 850 251
Lignite	tonnes	10 070	15 411	39 248	37 839	24 400
Briquettes	tonnes	128 877	96 169	70 400	132 895	404 681
Cobalt						
Ore	tonnes	...	12	15	42	115
Metal	tonnes	3 532	3 150	2 921	2 017	3 864
Oxides	tonnes	759	898	1 057	902	1 069
Copper						
Ores and concentrates	tonnes	1 148 316	1 300 491	1 088 291	1 252 430	1 128 472
Matte and cement	tonnes	30 463	14 880	10 102	4 133	12 739
Unwrought, unrefined	tonnes	41 589	31 830	24 706	46 840	23 331
Unwrought, refined	tonnes	881 427	844 747	833 354	658 703	743 934
Unwrought alloys	tonnes	36 770	48 261	40 073	38 538	36 249
Scrap	tonnes	552 413	595 751	563 560	454 753	626 442
Diamond						
Gem	carats	487 354	515 262	709 636	301 075	371 176
Industrial	carats	1 554 184	1 090 991	505 400	212 000	137 000
Dust	carats	53 291 240	45 596 025	45 914 930	25 210 000	60 060 000
Diatomite	tonnes	40 197	42 882	49 237	38 258	43 487
Feldspar	tonnes	126 834	143 596	143 758	130 081	139 663
Fluorspar	tonnes	293 737	346 581	357 914	187 330	261 999
Gold						
Metal	kilograms	56 743	68 549	118 516	164 511	192 815
Waste and scrap	kilograms	1 821 100	1 304 700	1 390 000	1 126 326	1 396 280
Graphite	tonnes	45 884	54 627	62 180	33 293	56 333
Gypsum						
Crude	tonnes	79 798	80 449	54 216	28 315	29 132
Calcined	tonnes	85 665	93 275	76 992	75 319	82 341
Iodine	kilograms	1 205 800	1 102 600	1 150 600	1 168 886	1 422 575
Iron ore						
Iron ore	tonnes	44 850 286	46 194 376	44 339 072	28 812 155	43 082 309
Burnt pyrites	tonnes	36 299	570	—	7 087	3 077
Iron, steel and ferro-alloys						
Pig iron	tonnes	422 525	655 022	713 470	402 132	421 287
Sponge and powder	tonnes	193 503	249 673	90 069	294 393	500 970
Ferro-chrome	tonnes	458 070	484 276	544 619	305 008	454 005
Ferro-silico-chrome	tonnes	12 867	14 426	12 886	8 648	29 047
Ferro-silico-magnesium	tonnes	23 761	25 758	23 645	12 238	14 754
Ferro-manganese	tonnes	195 387	217 428	209 083	122 063	203 200
Ferro-silico-manganese	tonnes	181 726	210 703	156 484	111 008	185 067
Ferro-molybdenum	tonnes	17 473	18 423	17 434	12 484	16 375
Ferro-nickel	tonnes	150 789	169 677	177 851	127 087	192 394
Ferro-niobium	tonnes	6 063	6 176	6 269	4 047	5 923
Ferro-phosphorus	tonnes	5 575	6 519	4 801	1 332	6 067
Ferro-silicon	tonnes	214 736	274 783	215 374	146 127	272 466
Ferro-titanium and ferro-silico-titanium	tonnes	13 492	15 339	13 824	5 461	8 754
Ferro-tungsten and ferro-silico-tungsten	tonnes	990	1 512	2 182	1 366	787
Ferro-vanadium	tonnes	5 171	5 711	5 333	3 421	5 034
Other ferro-alloys	tonnes	13 698	—	—	1	—
Silicon metal	tonnes	184 499	190 933	225 185	183 516	255 977
Ingots, blooms, billets	tonnes	2 578 298	3 095 162	2 970 042	1 171 865	1 611 091
Scrap	tonnes	5 592 745	5 920 061	5 675 167	3 865 110	5 305 194
Kaolin	tonnes	809 329	717 102	647 278	585 675	715 770
Lead						
Ores and concentrates	tonnes	161 113	211 132	212 602	234 102	184 018
Unwrought	tonnes	134 805	138 978	118 779	103 642	157 301
Scrap	tonnes	18 141	30 313	28 231	40 547	39 653
Lithium						
Oxides	tonnes	4 260	5 163	5 420	(a)* 3 000	(a)* 1 900
Carbonate	tonnes	7 948	8 131	7 098	4 433	6 486

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Magnesite and magnesia						
Magnesite	tonnes	13 794	17 029	8 420	6 731	12 751
Magnesia	tonnes	519 576	568 508	562 618	276 674	473 545
Manganese						
Ores and concentrates (b)	tonnes	11 327	15 997	14 916	14 645	17 346
Metal	tonnes	45 937	42 368	47 581	33 989	43 346
Mercury	kilograms	70 600	84 100	19 700	28 678	104 241
Mica						
Unmanufactured	tonnes	12	16	386	221	1 330
Ground	tonnes	33 101	36 345	33 175	25 682	29 716
Waste	tonnes	980	782	966	316	428
Molybdenum						
Ores and concentrates	tonnes	14 059	10 721	9 645	6 953	9 134
Metal	tonnes	3 894	4 238	4 132	1 726	3 038
Oxides	tonnes	2 049	1 776	1 905	1 661	2 890
Nickel						
Mattes, sinters etc	tonnes	6 459	1 911	797	561	849
Ores and concentrates	tonnes	293	1 532	1 310	1 087	1 667
Unwrought	tonnes	70 947	74 083	68 767	42 201	69 282
Unwrought alloys	tonnes	2 908	2 531	6 102	3 839	8 023
Scrap	tonnes	15 116	19 799	18 316	8 259	8 584
Oxides	tonnes	445	593	617	463	621
Crude petroleum	tonnes	113 960 654	105 162 534	105 835 665	97 648 203	91 239 711
Natural gas	tonnes	83 475 456	75 980 087	78 201 702	78 990 573	82 784 241
Phosphate rock	tonnes	117 711	115 109	145 905	28 863	120 580
Platinum metals						
Platinum	kilograms	46 900	51 500	47 100	42 452	40 983
Palladium	kilograms	42 000	54 700	55 100	47 092	53 479
Other platinum metals	kilograms	8 700	9 700	6 400	12 120	19 655
Waste and scrap	kilograms	9 332 700	11 442 800	10 983 600	6 224 314	8 069 744
Potash						
Sulphate	tonnes	5 414	17 108	11 801	13 194	20 786
Chloride	tonnes	62 917	101 081	124 643	75 154	131 645
Other potassic fertilisers	tonnes	809	1 344	2 503	633	8 065
Rare earths						
Cerium compounds	tonnes	975	901	673	448	1 006
Other rare earth compounds	tonnes	7 024	9 748	10 192	7 755	9 999
Metals	tonnes	369	410	430	106	459
Ferro-cerium and other pyrophoric alloys	tonnes	3	7	6	2	10
Salt	tonnes	2 591 036	2 476 738	2 319 273	1 867 023	2 654 736
Sillimanite minerals	tonnes	80 183	109 961	79 668	39 511	95 513
Silver						
Ores and concentrates	kilograms	1 323 500	859 400	6 024 500	2 581 290	4 002 438
Metal	kilograms	2 227 600	2 565 300	2 668 900	1 784 960	2 322 566
Sulphur and pyrites						
Pyrites	tonnes	76 343	92 569	109 955	52 641	76 101
Sulphur	tonnes	31 267	51 785	53 602	38 246	44 103
Sulphur, sublimed and precipitated	tonnes	1 363	2 007	2 964	2 856	1 649
Talc	tonnes	345 863	347 230	338 606	293 417	324 703
Tantalum and niobium						
Tantalum	tonnes	148	125	188	67	231
Tin						
Unwrought	tonnes	21 584	23 917	22 160	14 193	18 684
Unwrought alloys	tonnes	936	409	179	175	316
Scrap	tonnes	917	1 689	2 243	674	714
Titanium						
Ilmenite	tonnes	414 037	425 175	446 154	304 471	...
Other titanium minerals	tonnes	253 392	200 512	279 407	212 735	(c) 838 768
Titanium slag	tonnes	17 403	112 474	76 107	42 042	...
Metal	tonnes	18 426	19 385	19 449	11 649	12 919
Oxides	tonnes	269 812	299 599	281 009	240 120	309 500
Tungsten						
Ores and concentrates	tonnes	512	604	967	821	1 029
Metal	tonnes	4 450	4 791	5 184	3 313	7 168
Carbide	tonnes	1 366	2 678	2 526	1 333	2 544

Germany

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Vanadium						
Ores and concentrates	tonnes	58	79	60	...	...
Pentoxide	tonnes	1 222	1 071	879	(d)* 400	(d)* 1 000
Metal	tonnes	173	...	...	...	...
Zinc						
Ores and concentrates	tonnes	314 268	357 692	383 789	271 554	285 331
Unwrought	tonnes	313 034	316 603	305 075	285 965	380 807
Unwrought alloys	tonnes	83 795	87 785	89 738	36 350	57 563
Scrap	tonnes	30 028	19 586	17 395	16 782	23 694
Zirconium						
Concentrates (a)	tonnes	* 339 300	* 336 100	* 294 000	* 141 200	* 204 800
Metal	tonnes	571	880	791	664	798

Note(s)

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

(b) Including manganiferous iron ore

(c) Includes Ilmenite

Greece

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel and crushed rock	tonnes	* 90 000 000	* 90 000 000	* 85 000 000	* 65 000 000	* 65 000 000
Bauxite	tonnes	2 162 900	2 125 900	2 174 000	1 935 000	1 902 000
Alumina	tonnes (Al_2O_3 content)	780 000	788 900	807 500	796 000	785 000
Primary aluminium	tonnes	164 500	167 937	162 339	134 737	137 000
Bentonite and fuller's earth						
Bentonite	tonnes	1 166 000	1 342 000	1 580 000	1 500 000	844 804
Cement						
Cement, clinker	tonnes	10 852 453	12 035 077	11 361 397	8 649 322	* 8 000 000
Cement, finished	tonnes	15 723 088	14 559 293	14 013 312	11 160 205	* 11 000 000
Coal						
Lignite	tonnes	64 800 000	66 100 000	64 521 000	61 800 000	53 600 000
Feldspar	tonnes	* 100 000	95 000	62 000	55 737	23 050
Gypsum	tonnes	900 000	836 967	(a) 1 000 000	(a) 730 000	(a)* 600 000
Crude steel	tonnes	2 416 000	2 554 000	2 477 000	2 000 000	1 821 000
Ferro-alloys						
Ferro-nickel	tonnes	* 89 000	93 300	83 200	41 300	* 40 000
Kaolin	tonnes	* 40 000	30 000	4 360	—	—
Lead, mine	tonnes (metal content)	11 400	13 400	14 000	10 000	12 200
Lead, refined	tonnes	6 000	11 000	11 000	* 11 000	* 11 000
Magnesite	tonnes	463 277	351 414	361 165	380 834	396 497
Nickel, smelter/refinery	tonnes	17 700	18 668	16 640	8 269	13 960
Nickel, mine	tonnes (metal content)	21 700	21 200	18 600	9 600	16 100
Perlite	tonnes	1 049 000	1 100 000	1 000 000	862 935	760 000
Crude petroleum	tonnes	93 000	80 000	66 000	87 000	86 000
Natural gas	million m ³	* 16	21	14	11	* 10
Salt	tonnes	* 200 000	212 000	* 220 000	* 189 000	* 190 000
Silver, mine	kilograms (metal content)	24 700	38 300	33 500	27 500	29 000
Talc	tonnes	* 250	200	* 200	* 200	* 200
Zinc, mine	tonnes (metal content)	16 000	20 700	24 200	17 800	18 400

Note(s)

(1) Greece is also believed to produce gold and sulphur

(a) Including anhydrite

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	48 990	49 781	50 453	59 216	60 851
Aluminium and bauxite						
Bauxite	tonnes	912 093	1 086 405	787 160	409 508	436 513
Unwrought	tonnes	64 487	27 195	26 083	17 533	20 727
Unwrought alloys	tonnes	18 804	67 732	64 998	57 668	68 924
Alumina	tonnes	457 726	715 003	412 385	412 888	224 607
Alumina hydrate	tonnes	8 239	21 716	29 552	74 996	99 574
Scrap	tonnes	19 105	13 566	13 261	14 681	32 250
Antimony						
Metal	tonnes	160	143	81	—	...
Bentonite and fuller's earth						
Bentonite	tonnes	12 620	168	8 885	5 116	13 203
Fuller's earth	tonnes	122	...	...	...	...
Cement						
Cement clinkers	tonnes	356 077	848 925	722 151	851 946	722 142
Portland cement	tonnes	2 816 832	2 685 623	2 842 584	3 051 954	3 122 615
Other cement	tonnes	181 529	207 665	205 640	297 036	47 435
Chromium						
Ores and concentrates	tonnes	726	—	98	44	184

Greece

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Coal						
Hard coal (a)	tonnes	15 852	25 717	8 426	4 799	3 572
Briquettes	tonnes	23 465	12	25	—	113
Copper						
Unwrought, refined	tonnes	2 541	1 944	356	2 748	825
Unwrought alloys	tonnes	1 142	995	1 198	1 071	2 097
Scrap	tonnes	16 889	14 669	12 314	15 742	21 994
Feldspar	tonnes	5 258	6 052	5 806	718	1 119
Gold						
Metal	kilograms	311	900	400	500	48
Gypsum						
Crude	tonnes	116 442	47 694	21 258	49 037	38 459
Calcined	tonnes	752	1 842	937	580	337
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	511	340	3 671	377	999
Ingots, blooms, billets	tonnes	13 899	121 989	162 819	102 721	143 318
Scrap	tonnes	126 188	34 584	36 018	34 840	66 989
Kaolin	tonnes	472	276	384	225	206
Lead						
Unwrought	tonnes	3 292	9 913	5 792	2 360	5 209
Scrap	tonnes	1 256	769	1 390	913	1 945
Magnesite and magnesia						
Magnesia	tonnes	125 783	132 083	126 496	84 399	108 020
Mica	tonnes	9 613	3	59	59	25
Nickel						
Ores and concentrates	tonnes	52 169	150	231	144 529	20 284
Potash						
Potassic fertilisers	tonnes	3 977	1 217	1 648	1 369	1 294
Salt	tonnes	62 896	37 232	48 908	47 406	59 655
Silver						
Metal	kilograms	3 325	8 300	7 400	79 400	19 700
Sulphur and pyrites						
Pyrites	tonnes	16 495	73 606	63 893	24 429	28 680
Sulphur	tonnes	43 773	52 668	16 345	4 044	4 594
Talc	tonnes	4 065	5 016	3 926	3 898	2 809
Titanium						
Oxides	tonnes	1 861	2 233	598	462	773
Zinc						
Ores and concentrates	tonnes	12 615	14 890	43 003	21 311	14 660
Unwrought (b)	tonnes	1 802	29 861	448	665	264

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	45 081	341 376	425 485	177 887	13 538
Aluminium and bauxite						
Bauxite	tonnes	268 899	376 304	226 374	351 677	314 423
Alumina	tonnes	71 073	283 255	38 828	963	1 546
Unwrought	tonnes	125 541	125 327	129 407	110 311	153 771
Unwrought alloys	tonnes	62 828	73 561	63 670	32 252	66 134
Scrap	tonnes	20 030	50 470	28 960	17 339	43 866
Antimony						
Ores and concentrates	tonnes	131	83	27	6	—
Metal	tonnes	0	21	63	85	74
Arsenic						
Metallic arsenic	tonnes	16	9	9	11	33
Barytes	tonnes	1 065	1 255	1 348	2 133	1 318

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Bentonite and fuller's earth						
Bentonite	tonnes	14 573	19 780	21 261	8 593	3 668
Fuller's earth	tonnes	811	...	...	...	...
Bismuth						
Metal	tonnes	6	11	3	—	—
Cadmium						
Metal	tonnes	1	1	18	39	1
Cement						
Cement clinkers	tonnes	50 907	45 388	23 558	4 249	12 100
Portland cement	tonnes	3 237	3 603	74 239	136 300	206 164
Other cement	tonnes	3 228	3 010	2 618	2 359	15 136
Chromium						
Ores and concentrates	tonnes	732	257	298	230	178
Coal						
Anthracite	tonnes	39 250	59 007	41 475	37 585	48 783
Other coal	tonnes	461 181	382 933	371 479	168 663	512 663
Lignite	tonnes	50	3 029	35 457	58 053	87 707
Briquettes	tonnes	1 382	1 144	111	5 827	62
Cobalt						
Metal	tonnes	30	42	123	14	3
Copper						
Unwrought	tonnes	106 404	105 722	79 928	57 367	63 443
Unwrought alloys	tonnes	4 439	6 855	9 393	305	241
Scrap	tonnes	2 141	10 148	18 628	11 245	20 017
Diamond						
Unsorted	carats	20 035 000	7 000 000	116 000 000	1 000 000	900 000
Gem, rough	carats	55 000	205 000	425 000	3 365 000	920 000
Gem, cut	carats	10 075 000	9 470 000	2 815 000	6 370 000	8 365 000
Industrial	carats	9 720 000	11 355 000	22 810 000	43 195 000	4 330 000
Dust	carats	10 550 000	17 573 974	17 713 060 000	2 803 695 000	370 000
Diatomite	tonnes	757	958	790	482	668
Feldspar	tonnes	439	478	2 830	5 851	12 195
Fluorspar	tonnes	2 855	2 232	2 281	1 954	2 652
Gold						
Metal	kilograms	60 999	48 500	114 500	26 600	20 700
Graphite	tonnes	83	111	142	918	219
Gypsum						
Crude and calcined	tonnes	14 321	4 747	3 093	2 097	1 759
Iodine	kilograms	2 153	500	600	800	1 300
Iron ore	tonnes	(a) 9 755	(a) 2 280	74	(a) 172	217
Iron, steel and ferro-alloys						
Pig iron	tonnes	9 172	10 461	9 185	9 107	4 427
Sponge and powder	tonnes	492	6 741	7 709	9 685	5 772
Ferro-chrome	tonnes	871	1 016	1 146	916	693
Ferro-manganese	tonnes	640	2 654	1 753	1 216	837
Ferro-silico-manganese	tonnes	31 524	38 321	24 943	8 023	18 515
Ferro-silicon	tonnes	4 694	18 783	8 170	4 569	4 888
Other ferro-alloys	tonnes	444	546	504	170	849
Silicon metal	tonnes	1 408	1 383	2 312	906	1 426
Ingots, blooms, billets	tonnes	120 241	250 572	171 231	159 350	28 092
Scrap	tonnes	1 517 545	1 637 437	1 485 316	1 159 166	1 008 235
Kaolin	tonnes	68 083	40 298	62 415	49 509	31 132
Lead						
Unwrought	tonnes	5 401	11 792	6 875	10 644	11 149
Scrap	tonnes	138	2 071	2 800	1 753	1 692
Magnesite and magnesia						
Magnesite	tonnes	15 645	12 611	44 397	19 803	3 603
Magnesia	tonnes	22 763	20 682	7 328	1 729	2 198
Manganese						
Ores and concentrates	tonnes	46 164	—	51 425	31 776	22 888
Metal	tonnes	730	291	271	162	292
Mercury	kilograms	933	338	2 628	668	211
Mica	tonnes	111	123	218	317	169
Molybdenum						
Metal	tonnes	47	34	60	58	45
Nickel						
Ores and concentrates	tonnes	6 657	36	—	15	—

Greece

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Crude petroleum	tonnes	18 370 720	16 938 841	6 422 841	2 437 424	19 064 118
Natural gas	tonnes	3 029 778	3 789 666	4 186 746	3 086 243	3 520 510
Phosphate rock	tonnes	197 629	237 577	251 845	192 135	252 644
Platinum metals						
Platinum and platinum metals	kilograms	248	7 400	300	100	500
Potash						
Sulphate	tonnes	44 049	37 785	36 642	14 325	39 155
Chloride	tonnes	36 887	22 518	28 144	20 773	35 176
Other potassic fertilisers	tonnes	9 682	6 189	8 660	107	3 240
Rare earths						
Metals	tonnes	...	1	20	68	...
Ferro-cerium and other pyrophoric alloys	tonnes	0	22	0	—	65
Salt	tonnes	277 940	177 719	134 557	149 094	144 367
Sillimanite minerals	tonnes	62	734	2 662	505	44
Silver						
Metal	kilograms	46 241	1 039 000	276 100	31 300	29 900
Sulphur and pyrites						
Pyrites	tonnes	31 906	94 621	40 754	3	1
Sulphur	tonnes	3 933	35 625	42 733	26 673	42 673
Talc	tonnes	10 000	8 550	12 372	7 862	8 869
Tin						
Unwrought (b)	tonnes	244	323	265	80	160
Titanium						
Titanium minerals	tonnes	440	826	399	351	504
Oxides	tonnes	25 372	27 284	23 260	19 289	19 003
Vanadium						
Ores and concentrates	tonnes	...	...	...	80	...
Zinc						
Unwrought (b)	tonnes	19 320	58 708	28 996	25 422	22 534
Zirconium						
Concentrates	tonnes	466	547	429	122	93

Note(s)

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

Hungary

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	46 458 296	34 815 891	36 647 400	35 591 131	35 400 000
Crushed rock	tonnes	17 944 036	13 046 962	17 030 760	15 808 088	15 800 000
Bauxite	tonnes	538 258	546 310	511 337	317 000	365 000
Alumina	tonnes (Al_2O_3 content)	* 301 000	* 301 000	* 299 000	* 185 000	214 000
Primary aluminium	tonnes	300	—	—	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	6 635	54 231	7 464	2 839	3 000
Cement						
Cement, clinker	tonnes	2 533 076	2 500 698	* 2 500 000	* 2 400 000	* 2 400 000
Cement, finished	tonnes	3 724 153	3 551 746	3 544 000	* 3 200 000	* 3 200 000
Coal						
Lignite	tonnes	8 467 220	8 351 563	8 041 168	8 026 587	8 203 000
Brown coal	tonnes	1 431 700	1 450 400	1 386 140	952 000	911 000
Diatomite	tonnes	495	1 424	—	1 277	1 200
Gypsum (a)	tonnes	30 000	26 000	15 940	19 766	20 000
Pig iron	tonnes	1 340 000	1 393 655	1 288 758	1 050 000	1 325 000
Crude steel	tonnes	2 084 000	2 227 000	2 097 000	1 403 000	1 678 000
Kaolin	tonnes	1 350	2 136	—	—	—
Manganese ore	tonnes	50 000	51 000	49 579	43 000	55 000
Perlite	tonnes	71 019	67 542	132 000	82 058	80 000
Crude petroleum	tonnes	886 000	838 672	811 000	796 000	790 000
Natural gas	million m ³	3 254	2 653	2 703	2 748	2 600

Note(s)

(1) Hungary is also believed to produce antimony, arsenic and sulphur

(2) In addition to the countries producing sillimanite minerals, synthetic mullite is known to be produced in Hungary

(a) Including anhydrite

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	961 775	1 889 989	1 382 695	1 294 700	1 191 521
Aluminium and bauxite						
Unwrought (a)	tonnes	28 884	27 580	10 981	26 176	41 719
Alumina	tonnes	170 030	178 984	168 347	89 857	112 819
Alumina hydrate	tonnes	90 705	98 187	102 652	88 515	92 011
Scrap	tonnes	34 986	29 228	22 098	35 060	51 508
Bentonite and fuller's earth						
Bentonite	tonnes	860	849	1 191	555	954
Cement						
Cement clinkers	tonnes	—	—	—	1 701	296
Portland cement	tonnes	257 050	177 191	329 647	220 069	185 279
Other cement	tonnes	32	4 448	25 169	2 987	795
Coal						
Anthracite	tonnes	—	...	402	...	9 151
Lignite	tonnes	—	—	89 444	41 329	3 390
Copper						
Unwrought alloys	tonnes	...	...	989	314	571
Scrap	tonnes	27 051	23 394	20 958	19 120	15 319
Gold						
Metal	kilograms	470	871	657	1 312	1 200
Gypsum						
Crude and calcined	tonnes	6 408	8 626	19 259	22 019	17 367
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	—	829	47	...	104
Ingots, blooms, billets	tonnes	14 731	36 548	90 282	4 315	9 274
Scrap	tonnes	658 499	567 923	691 805	636 805	1 132 142

Hungary

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Kaolin	tonnes	3 781	3 762	3 110	2 847	2 436
Lead						
Scrap	tonnes	3 286	2 369	4 052	4 001	1 898
Natural gas	tonnes	—	127 853	—	323 537	—
Nickel						
Scrap	tonnes	...	40	81	203	170
Platinum metals						
Waste and scrap	kilograms	...	89 200	...	...	92 300
Potash						
Potassic fertilisers	tonnes	2 336	3 474	7 891	9 916	5 697
Salt	tonnes	45 215	1 459	1 388	3 434	1 356
Sillimanite minerals						
Mullite	tonnes	6 870	(b)* 7 500	(b)* 7 100	(b)* 3 300	(b)* 6 800
Silver						
Metal	kilograms	395	527	139	1 300	3 300
Sulphur and pyrites						
Sulphur	tonnes	34 850	43 178	43 649	39 638	44 098
Tin						
Unwrought (a)	tonnes	70	51	140	82	44
Scrap	tonnes	123	141	246	222	196
Titanium						
Oxides	tonnes	324	991	1 402	1 120	1 942
Zinc						
Unwrought	tonnes	1 189	—	(a) 523	—	(a) 405
Scrap	tonnes	4 557	3 716	1 902	2 978	2 821

Note(s)

(a) Including alloys

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	211 927	455 416	806 281	446 187	473 730
Aluminium and bauxite						
Bauxite	tonnes	243 873	319 681	297 832	178 031	244 095
Alumina	tonnes	1 968	2 899	8 997	9 246	22 660
Alumina hydrate	tonnes	590	451	508	3 352	6 856
Unwrought	tonnes	109 506	132 695	122 319	100 897	146 221
Unwrought alloys	tonnes	72 573	149 299	107 123	79 437	165 833
Scrap	tonnes	49 076	37 204	56 347	30 212	43 720
Antimony						
Oxide	tonnes	139	192	144	173	156
Barytes	tonnes	(a)* 5 600	1 456	492	4 536	1 441
Bentonite and fuller's earth						
Bentonite	tonnes	4 850	2 933	3 095	3 608	4 360
Bismuth						
Metal	tonnes	3	3	13	84	106
Bromine	kilograms	9 300	(b) 29 143	9 900	10 500	4 500
Cement						
Cement clinkers	tonnes	65 437	40 099	...	117 232	69 469
Portland cement	tonnes	455 108	560 863	643 776	565 552	495 045
Other cement	tonnes	375 337	144 824	55 798	49 051	34 191
Chromium						
Ores and concentrates	tonnes	306	492	479	251	296
Metal	tonnes	289	28	86	23	82
Coal						
Hard coal	tonnes	(c) 1 765 117	1 950 139	1 893 076	(c) 1 340 769	(c) 1 744 778
Lignite	tonnes	686 862	572 742	767 480	413 094	297 335
Briquettes	tonnes	15 416	13 589	16 093	17 519	14 352
Copper						
Unwrought	tonnes	2 175	2 492	3 016	2 168	3 637
Scrap	tonnes	571	1 405	5 933	10 091	4 038

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Diamond						
Gem, cut	carats	£246 000	£52 000	£220 000	£167 000	(a)* £280 000
Industrial (a)	carats	* £327 900	* £290 200	* £293 900	* £104 900	* £245 900
Dust (a)	carats	* 4 700 000	* 3 214 500	* 4 550 300	* 5 832 400	* 3 411 700
Diatomite	tonnes	1 476	2 111	1 110	796	957
Feldspar	tonnes	16 091	13 567	10 418	14 499	14 235
Fluorspar	tonnes	2 801	7 460	4 512	(d)* 1 500	2 662
Graphite	tonnes	192	178	147	126	113
Gypsum						
Crude	tonnes	5 417	5 424	6 713	3 248	5 362
Calcined	tonnes	60 129	60 615	49 220	43 128	12 413
Iodine	kilograms	1 800	4 400	7 900	2 100	2 700
Iron ore	tonnes	987 543	968 033	616 684	876 109	1 985 510
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 821	13 285	12 951	3 403	7 158
Sponge and powder	tonnes	2 968	3 116	1 043	425	756
Ferro-silico-magnesium	tonnes	801	1 132	12 753	15 503	554
Ferro-manganese	tonnes	15 611	4 311	4 318	2 037	12 015
Ferro-silico-manganese	tonnes	3 303	4 168	4 661	922	724
Ferro-silicon	tonnes	4 821	5 907	5 232	3 100	3 630
Other ferro-alloys	tonnes	876	403	640	277	460
Silicon metal	tonnes	4 847	2 982	2 184	2 589	4 010
Ingots, blooms, billets	tonnes	38 956	29 820	273 585	104 855	30 505
Scrap	tonnes	65 136	87 369	146 494	34 357	56 974
Kaolin	tonnes	25 282	25 168	29 089	25 094	24 175
Lead						
Unwrought	tonnes	4 063	5 802	2 711	2 663	6 138
Magnesite and magnesia						
Magnesite	tonnes	125	442	1 751	1 081	1 331
Magnesia	tonnes	5 310	9 318	7 892	1 563	6 783
Manganese						
Ores and concentrates	tonnes	20	254	293	220	198
Metal	tonnes	1 180	332	1 185	280	336
Mercury	kilograms	3 529	3 300	4 293	4 800	5 000
Molybdenum						
Metal	tonnes	145	112	102	69	70
Nickel						
Unwrought (d)	tonnes	141	116	69	219	346
Crude petroleum	tonnes	(a)* 7 667 000	6 064 641	(a)* 6 959 000	(a)* 6 241 000	5 310 899
Natural gas	tonnes	8 013 603	7 366 053	8 574 143	6 238 749	5 858 735
Platinum metals						
Platinum and platinum metals	kilograms	91	126	453	26	1 300
Potash						
Chloride	tonnes	133 764	168 692	181 373	38 441	90 063
Other potassic fertilisers	tonnes	3 180	5 863	4 552	4 372	5 760
Rare earths						
Rare earth compounds	tonnes	146	242	116	60	68
Salt	tonnes	662 455	514 119	510 287	535 928	704 143
Sillimanite minerals	tonnes	3 001	3 428	4 004	2 541	3 448
Silver						
Metal	kilograms	206 137	14 581	8 354	128 985	196 500
Sulphur and pyrites						
Sulphur	tonnes	(a)* 1 200	(a)* 1 200	2 105	(a)* 1 200	3 189
Sulphur, sublimed and precipitated	tonnes	326	174	586	186	119
Talc	tonnes	8 175	9 224	8 875	7 566	6 786
Tantalum and niobium						
Tantalum	tonnes	...	0	...	0	32
Tin						
Unwrought (d)	tonnes	384	328	320	208	231
Titanium						
Titanium minerals	tonnes	1 623	(d)* 1 400	2 659	(d)* 1 200	2 677
Oxides	tonnes	7 845	8 291	8 590	6 853	8 927
Zinc						
Unwrought (d)	tonnes	19 093	16 843	17 011	9 862	11 767

Hungary

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Zirconium Concentrates	tonnes	...	2 427	2 439	1 265	2 455

Note(s)

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

Iceland

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aluminium	tonnes	328 424	446 297	761 204	804 605	812 980
Ferro-alloys						
Ferro-silicon	tonnes	113 798	114 886	107 882	112 992	114 230

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	14 236	35 965	41 024	29 712	44 512
Aluminium and bauxite						
Unwrought	tonnes	303 288	446 297	760 764	805 450	812 981
Scrap	tonnes	4 603	3 872	12 483	4 467	10 136
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	103 572	117 230	105 868	1 129 930	114 231
Silicon metal	tonnes	—	15	—	200	—
Scrap	tonnes	28 908	68 014	60 287	38 075	37 328
Salt	tonnes	2 647	5 934	3 718	2 115	1 093

Imports

Commodity	Units	2006	2007	2008	2009	2010
Aluminium and bauxite						
Alumina	tonnes	663 691	814 258	1 620 531	1 557 309	1 612 188
Unwrought (a)	tonnes	291	293	439	1 461	6 127
Bentonite and fuller's earth						
Bentonite	tonnes	2 468	5 022	2 392	1 259	432
Cement						
Cement clinkers	tonnes	11 922	17 978	628	30	42
Portland cement	tonnes	199 525	166 488	111 918	38 640	24 481
Other cement	tonnes	847	868	505	241	4 405
Coal						
Anthracite	tonnes	91 545	107 686	91 576	104 094	101 220
Other coal	tonnes	6	31 882	6 609	9 903	3 521
Copper						
Unwrought, refined	tonnes	4 512	201	2	3	3
Graphite	tonnes	2	—	11	2 132	18
Gypsum						
Crude	tonnes	10 061	13 279	10 533	4 724	2 579
Calcined	tonnes	713	1 409	1 606	642	192
Iodine	kilograms	104	12 001	12 029	9	9
Iron ore	tonnes	38 509	43 452	(b) 44 167	34 404	36 318
Iron, steel and ferro-alloys						
Pig iron	tonnes	956	502	1 128	1 333	1 148
Ferro-alloys	tonnes	43	63	113	5 641	6 838
Silicon metal	tonnes	364	466	1 614	237	4 366
Ingots, blooms, billets	tonnes	1 647	4 352	1 361	1 528	633
Scrap	tonnes	—	—	1 164	643	11 545
Platinum metals						
Platinum and platinum metals	kilograms	70	960	162	158	117
Rare earths						
Metals	tonnes	...	—	85	87	350
Ferro-cerium and other pyrophoric alloys	tonnes	98	112	86	88	...

Iceland

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Salt	tonnes	96 212	100 169	113 142	98 207	65 342
Silver Metal	kilograms	763	1 388	858	1 096	909

Note(s)

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

Ireland, Republic of

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	* 64 000 000	* 40 000 000	* 25 000 000	* 20 000 000	* 20 000 000
Crushed rock	tonnes	* 96 000 000	* 90 000 000	* 60 000 000	* 45 000 000	* 40 000 000
Alumina	tonnes (Al_2O_3 content)	1 800 000	1 800 000	1 890 000	1 240 000	1 864 000
Cement						
Cement, finished	tonnes	* 4 700 000	* 4 700 000	* 3 910 000	* 2 720 000	* 2 290 000
Gypsum	tonnes	* 700 000	* 700 000	* 600 000	* 400 000	* 300 000
Lead, mine	tonnes (metal content)	61 800	56 800	50 200	* 49 500	39 100
Lead, refined	tonnes	21 700	22 500	20 000	19 000	19 000
Natural gas (a)	million m ³	500	519	506	414	402
Silver, mine	kilograms (metal content)	12 900	9 650	7 172	5 267	4 061
Zinc, mine	tonnes (metal content)	425 800	400 900	398 200	* 385 700	342 500

Note(s)

(a) Sales

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	230 125	85 146	255 295	40 626	13 318
Aluminium and bauxite						
Bauxite	tonnes	9 210	11 167	1 438	2 619	1
Unwrought alloys	tonnes	4 637	5 425	3 711	2 455	2 576
Alumina	tonnes	1 534 845	1 652 967	1 709 302	895 034	1 542 563
Alumina hydrate	tonnes	115 676	10 011	88 039	95 548	124 803
Scrap	tonnes	18 784	22 397	21 041	18 257	22 810
Cement						
Cement clinkers	tonnes	—	16 033	—	4 823	1
Portland cement	tonnes	972 585	1 120 808	1 144 186	1 054 533	1 025 910
Other cement	tonnes	1 489	1 596	1 512	1 317	8 787
Coal						
Anthracite	tonnes	3 791	30 451	...	2	—
Other coal	tonnes	6 382	4 395	6 158	3 861	5 820
Briquettes	tonnes	4 823	...	6 508	9 858	12 695
Cobalt						
Metal	tonnes	43	45	47	145	234
Oxides	tonnes	38	152	0	—	—
Copper						
Ores and concentrates	tonnes	922	1 024	49	—	621
Scrap	tonnes	15 784	9 836	21 421	23 305	13 172
Gold						
Metal	kilograms	£1 400 000	£1 678 000	£1 180 000	£37 000	£74 000
Waste and scrap	kilograms	£1 313 000	£902 000	£577 000	£2 056 000	£6 292 000
Gypsum						
Crude	tonnes	1 054	1 058	1 094	10 425	23 355
Calcined	tonnes	40 027	37 914	32 821	28 491	15 129
Iodine	kilograms	—	1 944	1 536	1 982	—
Iron, steel and ferro-alloys						
Scrap	tonnes	398 587	478 562	485 387	428 416	484 871
Lead						
Ores and concentrates	tonnes	129 748	108 645	91 728	109 877	62 729
Magnesite and magnesia						
Magnesite	tonnes	5 991	5 487	5 006	9 133	3 383
Magnesia	tonnes	46 656	3 981	9 912	8 595	33 334
Nickel						
Scrap	tonnes	1 015	556	236	220	557
Crude petroleum	tonnes	11	55 635	—	11	96
Natural gas	tonnes	642 980	5 447	—	383	3

Ireland, Republic of

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Platinum metals						
Waste and scrap	kilograms	6 523	7 179	16 854	8 544	5 440
Rare earths						
Rare earth compounds	tonnes	73	8	9	7	1
Salt	tonnes	2 492	3 867	8 783	735	10 183
Silver						
Ores and concentrates	kilograms	...	2 560	—	—	...
Tin						
Unwrought (a)	tonnes	71	1 094	34	23	689
Scrap	tonnes	54	77	86	90	59
Tungsten						
Metal	tonnes	183	180	10	—	59
Zinc						
Ores and concentrates	tonnes	483 949	412 703	404 303	594 268	588 143
Scrap	tonnes	569	3 044	649	312	299

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	1 687 279	1 729 337	1 368 008	781 470	652 594
Aluminium and bauxite						
Bauxite	tonnes	3 368 967	4 144 231	3 009 615	2 786 723	4 111 457
Alumina	tonnes	7 470	9 268	9 579	4 711	4 903
Unwrought (a)	tonnes	2 756	1 261	309	287	368
Arsenic						
Metallic arsenic	tonnes	125	137	95	...	—
Asbestos						
Unmanufactured	tonnes	2 700	23	3	—	12
Barytes	tonnes	293	586	229	169	176
Bentonite and fuller's earth						
Bentonite	tonnes	1 725	2 916	2 643	2 741	2 734
Bismuth						
Metal	tonnes	8	12	38	14	5
Cement						
Cement clinkers	tonnes	395 053	330 948	36 153	31 983	15 459
Portland cement	tonnes	559 645	664 977	780 528	192 556	133 977
Other cement	tonnes	9 079	16 409	14 649	10 698	4 974
Chromium						
Metal	tonnes	44	101	120	138	83
Coal						
Anthracite	tonnes	68 190	33 175	47 392	53 413	77 112
Other coal	tonnes	1 908 618	1 830 979	2 169 185	1 721 651	1 601 294
Briquettes	tonnes	96 279	14 271	19 049	40 482	31 507
Cobalt						
Ore	tonnes	35	571	36	28	10
Metal	tonnes	464	298	622	777	756
Oxides	tonnes	43	7	4	30	5
Copper						
Ores and concentrates	tonnes	...	21	30 176	42 945	2
Diamond						
Unsorted	carats	67 655 000	42 460 000	17 535 000	4 935 000	3 600 000
Gem, rough	carats	4 140 000	4 365 000	3 240 000	1 885 000	1 565 000
Gem, cut	carats	44 635 000	46 100 000	28 020 000	18 170 000	11 385 000
Industrial	carats	70 840 000	35 720 000	10 560 000	2 100 000	4 585 000
Dust	carats	200 868 966	233 626 080	232 059 616	86 782 073	86 782 073
Diatomite	tonnes	943	859	1 458	1 243	640
Gold						
Metal	kilograms	£7 213 000	£6 260 000	£5 271 000	£4 365 000	£4 047 000

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Gypsum						
Crude	tonnes	2 064	7 487	1 412	15 931	20 637
Calcined	tonnes	22 500	22 676	24 877	13 930	5 410
Iodine	kilograms	9 705	10 318	21 515	24 358	13 311
Iron ore	tonnes	1 161	(b) 4 594	(b) 13 478	(b) 18 151	(b) 592
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 710	939	2 359	1 202	1 345
Ferro-alloys	tonnes	401	464	370	737	385
Ingots, blooms, billets	tonnes	7 928	8 319	5 459	5 373	7 332
Scrap	tonnes	3 650	4 179	4 206	4 388	4 030
Kaolin	tonnes	19 647	19 322	18 766	3 155	4 039
Lead						
Unwrought	tonnes	28 386	35 675	23 480	15 784	14 357
Scrap	tonnes	31 794	25 828	17 702	16 689	12 074
Magnesite and magnesia						
Magnesite	tonnes	1 967	5 971	4 385	4 191	5 535
Magnesia	tonnes	35 800	48 088	42 999	22 523	39 638
Manganese						
Ores and concentrates (c)	tonnes	368	286	75	65	54
Metal	tonnes	15	118	7	6	2
Mercury	kilograms	11 804	1 019	979	1 182	8 582
Mica	tonnes	650	508	291	43	77
Nickel						
Unwrought (a)	tonnes	1 256	97	1 118	626	1 503
Crude petroleum	tonnes	3 082 372	3 595 537	2 878 397	2 792 968	2 931 391
Natural gas	tonnes	1 946 640	3 838 104	4 364 595	4 192 236	4 738 918
Phosphate rock	tonnes	154	6 028	3 425	85	5 328
Platinum metals						
Platinum and platinum metals	kilograms	3 999	10 425	2 185	121 381	9 470
Potash						
Chloride	tonnes	125 803	122 191	97 056	29 932	99 181
Other potassic fertilisers	tonnes	4 566	1 785	4 347	3 390	7 570
Rare earths						
Rare earth compounds	tonnes	7	23	21	67	8
Salt	tonnes	96 164	89 236	105 636	114 659	172 053
Silver						
Ores and concentrates	kilograms	18 974	1 270	385	41	...
Metal	kilograms	5 147	1 045	29 530	5 316	3 999
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	2 486	887	305	74	17
Talc	tonnes	1 278	375	473	1 722	1 140
Tantalum and niobium						
Tantalum	tonnes	2	3	2	4	85
Tin						
Unwrought (a)	tonnes	211	249	389	100	157
Titanium						
Metal	tonnes	350	362	1 154	507	414
Oxides	tonnes	4 703	4 822	3 961	4 308	4 922
Tungsten						
Metal	tonnes	173	277	215	68	91
Carbide	tonnes	53	184	158	108	68
Zinc						
Unwrought (a)	tonnes	7 010	7 687	5 185	2 210	2 104
Zirconium						
Concentrates	tonnes	258	425	3 976	1 323	16 162

Note(s)

- (a) Including alloys
- (b) Including burnt pyrites
- (c) Including manganiferous iron ore

Italy

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel (a)	tonnes	185 382 004	170 071 749	174 779 712	164 218 753	150 996 352
Crushed rock (a)	tonnes	91 397 876	97 463 072	91 373 378	84 717 579	80 336 696
Alumina	tonnes (Al_2O_3 content)	1 090 000	1 327 000	1 045 000	92 000	—
Primary aluminium	tonnes	194 200	179 500	186 400	165 800	129 500
Barytes	tonnes	* 7 000	* 5 000	* 5 000	* 3 500	* 3 500
Bentonite and fuller's earth						
Bentonite	tonnes	469 654	599 735	281 119	292 318	* 150 000
Cement						
Cement, clinker (a)	tonnes	1 319 046	1 088 402	957 371	637 853	966 577
Cement, finished	tonnes	47 400 000	47 500 000	43 000 000	36 300 000	35 000 000
Copper, refined	tonnes	36 400	28 600	24 200	6 500	1 800
Feldspar	tonnes	4 600 903	3 524 389	4 727 000	* 4 700 000	* 4 700 000
Fluorspar	tonnes	* 15 000	—	—	—	—
Gypsum	tonnes	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Pig iron	tonnes	11 500 000	11 100 000	10 400 000	5 670 000	8 555 000
Crude steel	tonnes	31 624 000	31 506 000	30 590 000	19 848 000	25 750 000
Ferro-alloys						
Ferro-manganese	tonnes	* 30 000	* 30 000	* 30 000	* 20 000	* 25 000
Ferro-silico-manganese	tonnes	96 600	87 000	87 000	56 000	108 000
Kaolin	tonnes	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Lead, mine	tonnes (metal content)	6 000	3 000	3 000	2 000	3 000
Lead, refined	tonnes	190 500	211 800	199 900	149 000	150 000
Perlite	tonnes	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Crude petroleum	tonnes	5 800 000	5 800 000	5 200 000	4 600 000	5 100 000
Natural gas	million m ³	11 000	9 700	9 300	7 900	7 600
Salt						
Rock salt and brine salt	tonnes	2 823 960	2 214 133	2 334 315	3 471 206	4 973 533
Talc	tonnes	130 714	117 643	* 110 000	* 110 000	* 110 000
Slab zinc	tonnes	109 200	102 100	107 100	103 400	104 700

Note(s)

- (1) Germanium is believed to be recovered from imported domestic material
- (2) Italy is also believed to produce sulphur

(a) Sales

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	1 720 142	1 482 346	1 522 229	1 308 016	1 507 704
Aluminium and bauxite						
Bauxite	tonnes	12 082	49 989	26 718	4 585	66 218
Unwrought	tonnes	20 315	18 971	18 249	30 019	49 442
Unwrought alloys	tonnes	73 137	104 361	96 798	122 294	220 237
Alumina	tonnes	748 594	696 603	571 090	61 223	17 056
Alumina hydrate	tonnes	26 668	34 521	35 538	1 243	4 346
Scrap	tonnes	50 024	42 052	56 214	82 055	107 131
Antimony						
Ores and concentrates	tonnes	250	355	386	566	960
Oxide	tonnes	254	237	569	391	226
Asbestos						
Unmanufactured	tonnes	5	29	—	...	...
Barytes	tonnes	1 000	2 239	1 238	2 890	1 906
Bentonite and fuller's earth						
Bentonite	tonnes	272 438	296 809	293 417	186 219	257 173
Bismuth						
Metal	tonnes	1	1	38	5	1
Bromine	kilograms	228 287	55 156	1 000	43	294

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Cadmium						
Metal	tonnes	1	796	1 633	2 030	3 104
Cement						
Cement clinkers	tonnes	61 437	143 235	38 106	5 280	52 673
Portland cement	tonnes	2 091 427	2 143 940	2 094 130	1 637 605	2 035 118
Other cement	tonnes	660 595	536 324	491 150	469 636	393 746
Chromium						
Ores and concentrates	tonnes	5 446	3 980	2 567	1 762	1 617
Metal	tonnes	111	1 666	166	29	5
Coal						
Hard coal (a)	tonnes	38 239	41 075	31 201	29 473	14 287
Briquettes	tonnes	30	5 874	492	514	3 923
Cobalt						
Metal	tonnes	224	168	220	205	187
Oxides	tonnes	77	223	235	141	206
Copper						
Matte and cement	tonnes	1 511	2 244	911	90	61
Unwrought	tonnes	13 567	22 424	13 381	30 548	15 938
Scrap	tonnes	102 463	120 231	148 923	158 062	167 424
Unwrought alloys	tonnes	14 620	20 830	15 268	12 787	15 553
Diamond						
Gem, cut	Carats	105 514	131 174	149 203	155 195	243 170
Dust	Carats	18 028 081	66 016 904	10 384 560	1 550 895	15 054 770
Diatomite	tonnes	1 110	3 884	9 991	10 392	6 716
Feldspar	tonnes	238 555	226 963	324 977	126 289	194 763
Fluorspar	tonnes	16 710	19 281	31 271	9 518	6 740
Gold						
Metal	kilograms	55 847	56 360	51 260	106 646	109 762
Waste and scrap	kilograms	16	160	1 376	173	154 845
Graphite	tonnes	442	401	308	820	798
Gypsum						
Crude	tonnes	141	17 748	24 525	17 907	12 035
Calcined	tonnes	69 272	27 123	24 496	21 848	18 484
Iodine	kilograms	7 067	2 613	2 119	86 917	24 722
Iron ore						
Iron ore	tonnes	18 929	7 026	1 598	313	599
Burnt pyrites	tonnes	4 407	1 544	101	41	8 180
Iron, steel and ferro-alloys						
Pig iron	tonnes	22 114	50 789	36 137	61 761	38 026
Sponge and powder	tonnes	194	1 097	615	452	729
Ferro-chrome	tonnes	8 276	5 411	4 593	2 066	5 020
Ferro-silico-magnesium	tonnes	93	2 061	1 681	673	733
Ferro-manganese	tonnes	8 670	14 562	12 890	7 457	9 186
Ferro-silico-manganese	tonnes	4 086	7 048	6 882	4 322	4 316
Ferro-molybdenum	tonnes	174	68	277	1 266	149
Ferro-nickel	tonnes	173	239	123	418	176
Ferro-silicon	tonnes	4 457	7 113	7 094	6 395	6 329
Other ferro-alloys	tonnes	1 986	84	95	68	103
Silicon metal	tonnes	3 304	4 576	6 007	3 200	3 284
Ingots, blooms, billets	tonnes	958 626	983 369	964 245	570 380	909 562
Scrap	tonnes	190 139	240 735	387 528	325 026	422 731
Kaolin	tonnes	17 287	16 265	13 627	21 392	36 208
Lead						
Unwrought	tonnes	8 143	8 008	34 904	23 006	7 821
Scrap	tonnes	3 806	7 661	6 897	7 594	9 776
Lithium						
Carbonate	tonnes	347	225	193	145	49
Magnesite and magnesia						
Magnesite	tonnes	3 003	3 878	2 337	1 945	2 535
Magnesia	tonnes	12 174	9 036	8 172	5 873	7 393
Manganese						
Metal	tonnes	298	309	494	326	716
Mercury	kilograms	14 820	125 946	84 247	89 228	202 273
Mica	tonnes	1 159	1 429	3 211	857	697

Italy

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Molybdenum						
Ores and concentrates	tonnes	29	311	159	205	1 523
Metal	tonnes	639	221	873	488	911
Oxides	tonnes	107	185	604	982	443
Nickel						
Scrap	tonnes	448	724	658	541	3 537
Unwrought (b)	tonnes	799	1 272	972	1 293	2 408
Crude petroleum	tonnes	937 813	1 442 498	1 195 500	619 630	423 777
Natural gas	tonnes	331 234	585 818	1 749 247	1 620 776	1 427 161
Phosphate rock	tonnes	6 789	7 800	7 661	6 416	10 751
Platinum metals						
Platinum	kilograms	9 542	11 783	13 350	10 043	10 408
Platinum metals	kilograms	6 951	5 828	8 295	8 898	12 684
Waste and scrap	kilograms	1 065	94 988	257	311	634
Potash						
Potassic fertilisers	tonnes	2 194	5 572	6 345	12 725	13 629
Rare earths						
Metals	tonnes	56	177	112	78	101
Rare earth compounds	tonnes	43	38	153	167	236
Salt	tonnes	361 602	212 223	322 221	558 441	919 673
Silver						
Metal	kilograms	516 281	547 042	519 148	383 782	715 501
Sulphur and pyrites						
Pyrites	tonnes	8 646	8 024	10 071	6 005	13 698
Sulphur	tonnes	290 353	263 362	219 095	256 614	286 954
Sulphur, sublimed and precipitated	tonnes	36 881	39 061	4 693	21 430	22 485
Talc	tonnes	122 148	131 071	114 017	124 212	143 236
Tin						
Unwrought (b)	tonnes	437	567	392	411	367
Scrap	tonnes	269	204	249	154	289
Titanium						
Metal	tonnes	4 101	4 884	5 478	3 607	3 248
Oxides	tonnes	22 473	26 242	25 982	23 508	27 450
Tungsten						
Metal	tonnes	197	455	973	670	925
Vanadium						
Ores and concentrates	tonnes	1 291	527	217	385	...
Zinc						
Ores and concentrates	tonnes	114 339	105 437	99 121	48 051	98 211
Unwrought	tonnes	37 659	21 048	7 967	5 258	11 071
Unwrought alloys	tonnes	7 792	6 689	2 857	3 491	6 377
Scrap	tonnes	12 934	13 574	8 603	12 334	16 427
Zirconium						
Concentrates	tonnes	23 472	25 596	41 296	33 219	41 784
Metal	tonnes	260	630	233	274	136

Note(s)

- (a) Including anthracite
 (b) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	4 655 740	4 967 745	4 139 144	3 654 570	3 057 378
Aluminium and bauxite						
Bauxite	tonnes	2 618 296	2 374 609	2 417 499	36 975	62 666
Alumina	tonnes	137 469	148 384	144 473	88 864	252 028
Alumina hydrate	tonnes	156 231	166 453	143 217	142 005	198 253
Unwrought	tonnes	481 919	534 385	445 882	284 779	432 393
Unwrought alloys	tonnes	504 142	545 052	436 207	310 560	488 002
Scrap	tonnes	366 623	432 780	377 441	268 836	372 686
Antimony						
Ores and concentrates	tonnes	829	851	1 171	935	1 378
Metal	tonnes	279	399	300	198	233
Oxide	tonnes	6 061	5 950	6 168	4 602	5 460
Arsenic						
Metallic arsenic	tonnes	52	64	43	45	19
Barytes	tonnes	84 398	89 745	102 684	51 615	67 303
Bentonite and fuller's earth						
Bentonite	tonnes	121 697	155 568	136 417	96 698	130 508
Fuller's earth	tonnes	8 208	...	...	...	...
Bismuth						
Metal	tonnes	251	316	269	152	355
Bromine	kilograms	522 069	374 426	598 800	958 588	1 259 187
Cadmium						
Metal	tonnes	30	40	49	43	3
Cement						
Cement clinkers	tonnes	2 872 114	2 827 333	2 095 716	1 495 609	797 703
Portland cement	tonnes	1 564 049	1 162 254	962 746	1 433 820	1 298 080
Other cement	tonnes	184 862	287 190	295 988	308 222	139 459
Chromium						
Ores and concentrates	tonnes	41 992	46 433	36 552	23 842	22 012
Metal	tonnes	848	902	721	943	881
Coal						
Anthracite	tonnes	282 831	406 331	490 757	210 384	408 391
Other coal	tonnes	24 860 362	25 111 043	25 745 375	20 165 036	21 820 370
Lignite	tonnes	914	974	791	982	1 126
Briquettes	tonnes	10 207	6 921	5 392	7 786	6 233
Cobalt						
Metal	tonnes	587	626	703	632	477
Oxides	tonnes	1 161	1 682	561	473	707
Copper						
Unwrought, unrefined	tonnes	323	796	370	438	499
Unwrought, refined	tonnes	774 140	746 482	617 420	544 197	627 826
Unwrought alloys	tonnes	15 174	24 996	18 531	8 166	14 679
Scrap	tonnes	214 289	177 546	167 212	91 519	129 074
Diamond						
Unsorted	carats	150 000	915 000	1 905 000	355 000	990 000
Gem, rough	carats	75 000	80 000	10 000	25 000	60 000
Gem, cut	carats	4 855 000	14 560 000	12 135 000	9 875 000	13 935 000
Industrial	carats	650 000	880 000	1 145 000	675 000	1 545 000
Dust	carats	152 680 000	161 010 000	252 290 000	121 055 000	196 860 000
Diatomite	tonnes	5 179	4 487	3 939	2 497	3 920
Feldspar	tonnes	2 603 981	2 573 637	2 511 704	1 570 345	1 951 827
Fluorspar	tonnes	237 597	236 797	238 008	212 415	200 184
Gold						
Metal	kilograms	204 012	206 914	166 506	146 721	149 022
Waste and scrap	kilograms	810	17 885	851	864	649
Graphite	tonnes	11 548	11 362	11 832	5 995	8 308
Gypsum						
Crude	tonnes	5 285	6 814	21 411	5 754	3 618
Calcined	tonnes	20 028	21 088	19 621	16 645	16 267
Iodine	kilograms	1 033 737	1 231 082	1 343 977	1 256 232	1 080 203
Iron ore	tonnes	(a) 17 776 812	17 013 076	16 313 184	8 159 741	12 092 237

Italy

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 791 165	2 235 376	2 238 037	895 818	1 018 615
Sponge and powder	tonnes	468 825	465 834	396 660	174 364	278 989
Ferro-chrome	tonnes	464 364	419 392	389 002	296 813	390 374
Ferro-silico-magnesium	tonnes	6 809	16 751	15 716	6 026	9 269
Ferro-manganese	tonnes	95 010	108 976	96 771	46 537	71 406
Ferro-silico-manganese	tonnes	216 632	229 755	186 135	119 670	158 540
Ferro-molybdenum	tonnes	7 469	7 433	8 318	3 998	6 141
Ferro-nickel	tonnes	129 870	91 651	104 198	78 383	98 168
Ferro-niobium	tonnes	2 194	2 783	2 733	1 395	2 751
Ferro-phosphorus	tonnes	547	721	488	550	631
Ferro-silicon	tonnes	147 121	154 797	122 236	89 909	137 031
Ferro-titanium and ferro-silico-titanium	tonnes	3 922	4 230	3 861	4 462	3 876
Ferro-tungsten and ferro-silico-tungsten	tonnes	307	385	578	300	247
Ferro-vanadium	tonnes	1 839	2 521	2 445	1 158	1 901
Other ferro-alloys	tonnes	9 727	1	243	—	97
Silicon metal	tonnes	51 696	57 854	57 493	27 402	48 392
Ingots, blooms, billets	tonnes	5 792 203	5 991 974	5 311 325	2 655 726	3 681 439
Scrap	tonnes	5 668 405	5 242 020	5 705 462	3 321 387	4 609 403
Kaolin	tonnes	978 378	881 968	810 560	505 593	823 461
Lead						
Ores and concentrates	tonnes	65 610	111 999	85 760	29 210	20
Unwrought	tonnes	112 069	114 471	99 015	86 054	111 301
Scrap	tonnes	4 097	7 107	2 972	2 031	2 609
Lithium						
Oxides	tonnes	159	160	246	96	175
Carbonate	tonnes	1 646	1 303	1 519	1 185	1 123
Magnesite and magnesia						
Magnesite	tonnes	10 862	10 240	18 347	9 375	21 454
Magnesia	tonnes	174 000	131 140	150 098	93 262	143 725
Manganese						
Ores and concentrates (b)	tonnes	72 465	113 300	114 289	77 075	55 284
Metal	tonnes	35 391	7 100	5 839	3 709	5 788
Mercury	kilograms	49 335	9 491	21 754	19 992	10 510
Mica						
Unmanufactured	tonnes	158	189	106	417	136
Ground	tonnes	3 657	4 803	3 980	2 597	3 854
Molybdenum						
Ores and concentrates	tonnes	5 552	5 901	6 220	6 703	9 108
Metal	tonnes	189	215	254	171	136
Oxides	tonnes	229	183	125	176	276
Nickel						
Mattes, sinters etc	tonnes	1 550	1	1	93	1
Unwrought	tonnes	48 178	41 802	42 339	25 833	39 586
Unwrought alloys	tonnes	3 918	1 613	2 164	2 841	1 171
Scrap	tonnes	1 606	1 372	892	763	1 063
Crude petroleum	tonnes	86 807 240	89 130 022	82 998 642	76 301 866	76 729 305
Natural gas	tonnes	42 870 000	71 491 000	36 489 000	52 879 546	59 616 091
Phosphate rock	tonnes	242 633	249 847	248 005	89 245	231 808
Platinum metals						
Platinum	kilograms	17 279	20 491	16 570	13 627	12 545
Palladium	kilograms	15 943	18 880	20 593	13 047	10 019
Other platinum metals	kilograms	3 077	1 811	2 426	1 909	1 694
Waste and scrap	kilograms	431	447	7 646	8 178	16 918
Potash						
Sulphate	tonnes	91 061	90 992	78 513	31 910	88 593
Chloride	tonnes	302 115	396 162	346 465	144 086	367 465
Other potassic fertilisers	tonnes	17 583	15 929	9 882	3 413	8 415
Rare earths						
Cerium compounds	tonnes	540	694	710	414	597
Other rare earth compounds	tonnes	313	452	431	258	303
Metals	tonnes	58	149	144	87	124
Ferro-cerium and other pyrophoric alloys	tonnes	1	2	2	5	10
Salt	tonnes	863 836	611 435	572 965	902 241	1 119 583
Sillimanite minerals	tonnes	26 304	24 807	30 616	45 172	30 614

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Silver						
Ores and concentrates	kilograms	67 952	1 002	—	15	70 440
Metal	kilograms	1 583 508	1 445 303	1 167 457	881 205	1 120 080
Sulphur and pyrites						
Pyrites	tonnes	17 741	14 879	20 984	228	13 538
Sulphur	tonnes	11 691	16 271	48 618	13 305	19 263
Sulphur, sublimed and precipitated	tonnes	375	414	2 711	3 617	758
Talc	tonnes	129 218	140 461	147 549	78 506	100 934
Tin						
Concentrates	tonnes	572	65	—	3	3
Unwrought	tonnes	5 526	4 113	4 124	2 652	3 828
Unwrought alloys	tonnes	392	504	777	360	1 074
Titanium						
Titanium minerals	tonnes	185 121	136 274	102 909	74 338	98 978
Metal	tonnes	6 248	8 609	7 155	3 352	4 497
Oxides	tonnes	161 253	166 223	141 959	139 071	160 361
Tungsten						
Metal	tonnes	236	280	255	147	496
Carbide	tonnes	365	361	350	103	279
Vanadium						
Ores and concentrates	tonnes	75	...	255	18	...
Pentoxide	tonnes	209	150	173	45	53
Zinc						
Ores and concentrates	tonnes	175 253	195 798	161 838	155 028	184 192
Unwrought	tonnes	229 040	314 714	179 691	118 424	245 254
Unwrought alloys	tonnes	42 768	51 514	81 350	22 194	34 595
Scrap	tonnes	18 541	21 599	15 369	15 315	27 740
Zirconium						
Concentrates	tonnes	143 672	114 838	129 999	53 845	98 214
Metal	tonnes	128	315	130	226	144

Note(s)

- (a) Including burnt pyrites
- (b) Including manganiferous iron ore

Latvia

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	5 957 744	9 998 863	8 905 937	6 520 363	5 890 950
Crushed rock	tonnes	582 081	937 030	1 413 395	818 390	1 375 197
Cement						
Cement, finished	tonnes	* 280 000	* 300 000	* 310 000	* 300 000	* 300 000
Crude steel	tonnes	* 690 000	* 696 000	* 635 000	* 692 000	* 655 000
Gypsum (a)	tonnes	330 000	346 000	349 000	175 870	176 510

Note(s)

(a) Including anhydrite

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	11 618	32 783	54 321	121 260	101 406
Aluminium and bauxite						
Unwrought alloys	tonnes	18 180	19 281	17 012	11 772	14 493
Scrap	tonnes	1 767	2 416	4 203	4 419	5 461
Bentonite and fuller's earth						
Bentonite	tonnes	51	...	81	77	392
Cement						
Cement clinkers	tonnes	326	35 307	—	2 382	68 802
Portland cement	tonnes	5 528	43 951	240 311	147 960	562 435
Other cement	tonnes	141	10 178	20	126	76
Coal						
Hard coal (a)	tonnes	1 042	—	3 140	170	3 136
Briquettes	tonnes	...	21	79	74	3 262
Copper						
Unwrought	tonnes	2 734	3 272	4 117	2 518	726
Scrap	tonnes	7 116	7 309	6 900	6 138	7 106
Gypsum						
Crude and calcined	tonnes	109 404	74 627	63 732	37 352	38 596
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	2 626	4 371	4 010	2 323	2 442
Scrap	tonnes	313 455	245 958	388 456	213 766	396 794
Nickel						
Unwrought alloys	tonnes	...	...	2	165	112
Scrap	tonnes	116	49	199	3 301	3 108
Crude petroleum	tonnes	12 099	—	...	93	524
Platinum metals						
Waste and scrap	kilograms	468	219	181	—	—
Potash						
Chloride	tonnes	117	250	970	0	39
Salt	tonnes	14 485	14 282	13 741	15 919	23 172
Tin						
Scrap	tonnes	307	...	3	...	175
Zinc						
Scrap	tonnes	750	757	443	975	587

Note(s)

(a) Including anthracite

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	1 412 127	1 663 783	2 033 701	565 877	467 414
Aluminium and bauxite						
Scrap	tonnes	6 505	6 837	7 677	5 974	7 828
Bentonite and fuller's earth						
Bentonite	tonnes	1 544	1 850	2 628	2 148	2 787
Cement						
Cement clinkers	tonnes	43 774	29 438	30 233	34 375	158
Portland cement	tonnes	322 187	431 482	353 174	87 660	94 873
Coal						
Hard coal (a)	tonnes	159 787	153 806	169 211	136 277	181 348
Copper						
Unwrought	tonnes	1 199	1 396	3 609	3 049	712
Diatomite	tonnes	467	545	681	534	412
Fluorspar	tonnes	204	220	240	468	678
Gypsum						
Crude and calcined	tonnes	9 960	13 670	5 818	1 920	24 696
Iron ore	tonnes	3 919	46 109	44 607	2 393	1
Iron, steel and ferro-alloys						
Pig iron	tonnes	57 696	65 437	56 964	38 140	45 454
Sponge and powder	tonnes	112	131	19	14 931	4 460
Ferro-chrome (b)	tonnes	* 3	* 20	* 130	* 9 050	* 300
Ferro-manganese	tonnes	3 281	3 021	10 334	2 345	4 090
Ferro-silico-manganese	tonnes	5 628	14 947	23 477	14 722	18 898
Ferro-silicon	tonnes	2 550	3 086	18 466	15 085	24 660
Other ferro-alloys	tonnes	416	372	132	415	158
Silicon metal	tonnes	1 409	656	467	783	1 553
Ingots, blooms, billets	tonnes	145 037	158 649	146 505	226 967	206 428
Scrap	tonnes	266 616	294 904	412 240	214 564	443 817
Kaolin	tonnes	5 422	11 071	11 173	7 476	10 594
Magnesite and magnesia						
Magnesia	tonnes	4 092	4 678	5 355	2 827	5 524
Natural gas	tonnes	1 201 960	1 158 965	1 138 776	1 047 240	1 160 668
Platinum metals						
Waste and scrap	kilograms	...	1 842	2 842	(b)* 3 900	(b)* 400
Potash						
Chloride	tonnes	9 489	8 875	10 845	—	6 414
Salt	tonnes	149 696	123 316	144 424	151 529	163 486
Silver						
Metal	kilograms	16	1 450	1 174	556	791
Sulphur and pyrites						
Sulphur	tonnes	7	8	9	12 488	24
Talc	tonnes	217	396	417	314	295
Titanium						
Oxides	tonnes	833	781	3 112	562	739
Zinc						
Unwrought (c)	tonnes	953	664	1 256	830	383

Note(s)

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

Lithuania

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	7 633 311	9 181 552	9 469 411	5 029 476	5 655 401
Crushed rock	tonnes	5 259 535	6 424 791	6 913 160	2 849 122	3 281 330
Cement						
Cement, clinker	tonnes	...	...	—	233 292	—
Cement, finished	tonnes	1 065 367	1 105 365	1 075 581	583 067	834 000
Crude petroleum	tonnes	180 894	154 449	127 658	114 956	114 464
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	61 135	42 618	73 870	69 722	73 470

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	2006	2007	2008	2009	2010
Primary aggregates	tonnes	871 522	1 053 802	943 673	163 850	57 255
Aluminium and bauxite						
Unwrought alloys	tonnes	3 410	3 453	3 994	2 614	7 754
Scrap	tonnes	5 640	5 701	5 280	4 796	5 298
Bentonite and fuller's earth						
Bentonite	tonnes	2 491	5 457	1 929	266	442
Cement						
Portland cement	tonnes	246 350	154 649	204 951	170 273	352 750
Other cement	tonnes	16	893	1 531	491	1 151
Chromium						
Ores and concentrates	tonnes	2 213	1 156	240	78	46
Coal						
Hard coal (a)	tonnes	499	4 599	7 685	10 915	33 109
Copper						
Scrap	tonnes	5 020	4 814	4 675	3 375	4 128
Iodine	kilograms	4 800	20	3	—	4
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	17 952	15 437	11 188	3 093	104
Scrap	tonnes	681 692	661 349	659 646	422 436	595 721
Lead						
Scrap	tonnes	6 118	11 776	9 730	4 210	5 941
Magnesite and magnesia						
Magnesia	tonnes	8	26	...	537	717
Molybdenum						
Ores and concentrates	tonnes	...	173	186	...	93
Nickel						
Scrap	tonnes	674	232	131	85	76
Crude petroleum	tonnes	115 075	155 416	128 838	113 172	110 597
Phosphate rock	tonnes	1 406	2 011	140	—	—
Platinum metals						
Waste and scrap	kilograms	16	404	62 710	101 900	193 600
Potash						
Potassic fertilisers	tonnes	8 939	5 752	2 846	18 714	6 517
Rare earths						
Cerium compounds	tonnes	3	4	3	8	12
Salt	tonnes	7 150	6 761	6 063	5 437	19 031
Silver						
Metal	kilograms	300	61	600	200	1 100
Sulphur and pyrites						
Sulphur	tonnes	1	7	1 517	14 038	1 227

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Tantalum and niobium						
Tantalum	tonnes	5	48	31	11	9
Titanium						
Oxides	tonnes	208	268	1 230	502	1 167
Vanadium						
Ores and concentrates	tonnes	...	346	358	...	...
Zinc						
Scrap	tonnes	976	517	232	553	423

Note(s)

(a) Including anthracite

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	1 214 058	1 333 772	1 301 091	695 973	849 462
Aluminium and bauxite						
Bauxite	tonnes	...	1	...	6 922	4 348
Alumina	tonnes	11 176	13 304	10 282	1 815	16 411
Scrap	tonnes	1 964	3 380	1 887	888	2 460
Antimony						
Oxide	tonnes	36	61	110	117	102
Bentonite and fuller's earth						
Bentonite	tonnes	2 838	3 105	3 068	3 368	4 378
Fuller's earth	tonnes	1 978	...	...	...	...
Cement						
Cement clinkers	tonnes	416	104 219	79 102	996	176 461
Portland cement	tonnes	209 400	170 955	111 578	133 039	122 178
Coal						
Hard coal (a)	tonnes	391 032	356 342	382 695	215 439	316 971
Diatomite	tonnes	504	1 178	763	836	744
Feldspar	tonnes	1 933	1 693	1 516	2 958	6 265
Gold						
Waste and scrap	kilograms	12 470	2	—	103	—
Gypsum						
Crude	tonnes	71 649	78 185	90 320	28 754	54 772
Calcined	tonnes	36 588	47 112	43 127	19 974	17 377
Iodine	kilograms	5 023	470	383	4 510	17 732
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 008	1 660	1 218	415	315
Ferro-chrome	tonnes	6 140	9 705	9 634	2 842	32
Ferro-silico-manganese	tonnes	6 864	5 983	...	2	...
Other ferro-alloys	tonnes	1 413	437	457	114	161
Ingots, blooms, billets	tonnes	5 260	6 011	9 661	1 229	4 270
Scrap	tonnes	103 878	64 661	64 462	29 805	35 270
Kaolin	tonnes	1 399	568	607	159	486
Lead						
Scrap	tonnes	119	368	162	3 301	4 459
Magnesite and magnesia						
Magnesia	tonnes	5 513	6 501	5 196	855	1 245
Mica	tonnes	122	53	92	43	42
Molybdenum						
Metal	tonnes	4	11	6	7	65
Crude petroleum	tonnes	7 994 367	4 869 858	9 325 904	8 413 067	9 018 334
Natural gas	tonnes	2 129 513	2 414 798	2 246 642	1 761 529	2 048 906
Phosphate rock	tonnes	1 193 093	1 202 196	1 209 385	1 162 070	1 354 093
Platinum metals						
Waste and scrap	kilograms	26 700	65 900	40 800	22 700	76 400
Potash						
Sulphate	tonnes	10 439	15 637	10 971	2 617	2 581
Chloride	tonnes	143 499	138 895	107 749	6 631	32 552
Other potassic fertilisers	tonnes	6 200	190	487	87	4

Lithuania

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Rare earths						
Rare earth compounds	tonnes	52	3	8	3	14
Salt	tonnes	197 262	171 915	166 505	159 534	209 506
Silver						
Metal	kilograms	4 500	5 200	6 900	5 800	6 300
Sulphur and pyrites						
Sulphur	tonnes	320 658	317 678	293 365	319 353	326 485
Sulphur, sublimed and precipitated	tonnes	607	0	404	18	1
Talc	tonnes	463	511	388	225	270
Tantalum and niobium						
Tantalum	tonnes	11	47	38	24	12
Titanium						
Oxides	tonnes	975	1 328	980	1 259	1 947
Zinc						
Unwrought (b)	tonnes	1 554	627	563	190	460

Note(s)

- (a) Including anthracite
 (b) Including alloys

Luxembourg

Production

Commodity	Units	2006	2007	2008	2009	2010
Cement						
Cement, clinker	tonnes	816 000	817 000	761 800	706 426	736 000
Cement, finished	tonnes	796 000	908 000	907 500	929 820	1 030 700
Crude steel	tonnes	2 802 000	2 858 000	2 582 000	2 141 000	2 548 000

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	107 278	191 762	451 026	132 842	160 773
Aluminium and bauxite						
Unwrought alloys	tonnes	225 260	231 110	143 237	85 636	157 473
Alumina	tonnes	836	1 072	734	420	10
Scrap	tonnes	19 001	19 630	11 164	3 785	6 034
Cement						
Cement clinkers	tonnes	364 463	161 362	181 689	58 463	7 695
Portland cement	tonnes	51 469	78 252	109 447	119 660	341 075
Other cement	tonnes	24 785	31 475	264 233	137 975	219 688
Copper						
Scrap	tonnes	8 349	6 348	2 412	1 787	2 492
Unwrought alloys	tonnes	4 042	488	—	11	7
Gold						
Metal	kilograms	8 637	12 200	55 600	38 000	32 700
Gypsum						
Crude and calcined	tonnes	639	1 232	553	661	1 596
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	148 004	81 112	49 843	16 793	10 953
Scrap	tonnes	268 855	311 114	504 067	114 924	165 832
Kaolin						
Metal	tonnes	38	160	268	414	22
Magnesite and magnesia						
Magnesite	tonnes	81	197	481	621	943
Platinum metals						
Platinum and platinum metals	kilograms	909	4 700	5 800	2 500	...
Waste and scrap	kilograms	8	...	...	24 700	5 600
Potash						
Chloride	tonnes	299	231	778	98	330
Salt						
Metal	tonnes	1 533	74	219	220	1 072
Silver						
Metal	kilograms	165	200	100	—	—
Tungsten						
Metal	tonnes	4	5	0	2	203
Zinc						
Scrap	tonnes	1 595	1 807	315	423	1 134

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 267 636	1 850 515	1 370 991	1 757 604	2 097 069
Aluminium and bauxite						
Alumina	tonnes	2 166	2 851	2 225	1 403	1 117
Unwrought	tonnes	59 262	47 982	52 669	33 315	62 504
Unwrought alloys	tonnes	11 293	12 076	9 320	4 480	7 362
Scrap	tonnes	198 508	186 465	123 407	48 091	128 632
Antimony						
Oxide	tonnes	57	124	119	126	87
Asbestos						
Unmanufactured	tonnes	199	120	...	—	—
Barytes	tonnes	24 243	29 556	27 726	16 377	17 182
Cement						
Cement clinkers	tonnes	28 582	51 936	36 976	17 827	27 238
Portland cement	tonnes	38 197	32 068	33 617	56 666	34 642
Other cement	tonnes	34 141	23 525	22 879	16 255	12 119
Chromium						
Metal	tonnes	105	11	38	3	50
Coal						
Anthracite	tonnes	39 577	42 128	34 471	16 525	24 834
Other coal	tonnes	106 115	59 201	81 616	83 454	76 133
Lignite	tonnes	6 164	5 992	7 119	7 093	7 090
Briquettes	tonnes	1 128	937	833	805	1 059
Cobalt						
Metal	tonnes	120	212	243	11	163
Copper						
Scrap	tonnes	22 330	15 791	8 833	7 533	10 708
Diamond						
Unsorted	carats	£58 000	£113 000	£24 000	£47 000	£20 000
Gem, cut	carats	£218 000	£255 000	£595 000	£446 000	£418 000
Dust	carats	£521 000	£519 000	£691 000	£227 000	£609 000
Diatomite	tonnes	1 167	159	1 492	7 054	7 858
Fluorspar	tonnes	95	1 278	1 343	618	983
Gold						
Metal	kilograms	5 840	10 200	37 400	10 000	12 300
Gypsum						
Crude	tonnes	751	849	51 416	57 828	50 104
Calcined	tonnes	28 454	31 700	25 257	15 793	10 715
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	1 886	3 275	5 478	1 132	910
Ferro-silico-manganese	tonnes	24 762	47 741	28 617	25 617	27 116
Ferro-niobium	tonnes	246	577	473	166	192
Ferro-silicon	tonnes	4 594	3 987	8 115	2 846	3 428
Other ferro-alloys	tonnes	816	841	1 309	582	906
Ingots, blooms, billets	tonnes	823 111	788 410	1 004 405	364 945	407 419
Scrap	tonnes	3 238 139	3 137 236	3 880 672	1 829 754	2 693 481
Kaolin	tonnes	9 178	9 013	10 951	6 316	904
Magnesite and magnesia	tonnes	971	1 373	1 663	2 202	2 612
Mica	tonnes	780	787	41	0	1
Nickel						
Unwrought (a)	tonnes	222	112	11	4	51
Natural gas	tonnes	3 205	1 797	221 375	92 122	3 591
Platinum metals						
Platinum and platinum metals	kilograms	4 145	9 322	1 410	1 702	1 633
Potash						
Potassic fertilisers	tonnes	2 156	940	2 048	801	1 681
Rare earths						
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	...	11
Salt	tonnes	68 116	21 104	45 882	51 132	77 304
Silver						
Metal	kilograms	18 344	26 083	7 061	3 738	24 304
Sulphur and pyrites						
Sulphur	tonnes	1 157	3 139	5 771	2 981	2 166
Tin						
Unwrought	tonnes	20	18	12	14	215

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Titanium						
Metal	tonnes	487	339	165	66	456
Oxides	tonnes	906	1 169	1 051	1 114	1 481
Tungsten						
Metal	tonnes	120	3	25	1	2
Carbide	tonnes	...	1 110	983	465	7
Zinc						
Unwrought	tonnes	19 311	9 841	5 831	6 049	9 232
Unwrought alloys	tonnes	1 156	1 360	537	237	475

Note(s)

(a) Including alloys

Macedonia

Production

Commodity	Units	2006	2007	2008	2009	2010
Bentonite and fuller's earth						
Bentonite	tonnes	20 353	22 509	13 689	9 033	* 9 000
Coal						
Lignite	tonnes	6 650 182	6 569 220	7 669 103	7 395 915	* 7 000 000
Copper, mine	tonnes (metal content)	7 054	7 029	8 051	7 440	7 900
Feldspar	tonnes	38 124	32 814	28 920	19 377	* 19 000
Gypsum	tonnes	267 760	255 500	242 400	154 550	* 150 000
Crude steel	tonnes	326 484	370 317	344 866	299 332	291 000
Ferro-alloys						
Ferro-nickel	tonnes	10 942	15 321	15 026	12 000	* 11 000
Ferro-silicon	tonnes	59 023	78 892	97 605	7 657	...
Lead, mine	tonnes (metal content)	11 531	36 039	49 877	46 788	41 300
Nickel, smelter/refinery	tonnes	10 942	15 300	15 000	12 000	* 14 000
Nickel, mine	tonnes (metal content)	10 900	15 000	15 000	12 000	14 000
Silver, mine	kilograms (metal content)	* 10 000	* 30 000	* 40 000	* 35 000	* 32 000
Talc	tonnes	1 025	1 775	977	—	—
Zinc, mine	tonnes (metal content)	10 836	30 957	38 737	38 648	32 900

Exports

Commodity	Units	2006	2007	2008	2009	2010
Aluminium and bauxite						
Scrap	tonnes	2 788	1 795	2 043	1 514	2 351
Bentonite and fuller's earth						
Bentonite	tonnes	4 747	4 181	5 201	3 716	3 310
Cement						
Cement clinkers	tonnes	151 663	90 869	173 089	5 638	...
Portland cement	tonnes	220 588	308 468	281 782	361 677	315 074
Chromium						
Ores and concentrates	tonnes	...	1 835	160	...	...
Copper						
Ores and concentrates (a)	tonnes	* 36 000	* 35 000	* 41 000	* 39 000	* 41 000
Scrap	tonnes	3 190	2 277	2 302	2 029	576
Feldspar	tonnes	36 539	28 766	23 762	18 457	21 924
Gypsum						
Crude and calcined	tonnes	9 488	10 167	12 496	12 604	30 273
Iron, steel and ferro-alloys						
Ferro-silico-manganese	tonnes	6 682	48 258	...	10 938	31 344
Ferro-nickel	tonnes	45 058	71 189	...	...	...
Ferro-silicon	tonnes	62 794	30 139	...	16 621	19 491
Scrap	tonnes	98 763	124 200	104 326	59 407	71 830
Lead						
Ores and concentrates	tonnes	16 371	47 209	...	60 702	55 482
Unwrought	tonnes	—	70	184	1 271	801
Scrap	tonnes	2 511	2 622	2 209	226	226
Manganese						
Ores and concentrates	tonnes	5 117	...	6 314	...	...
Phosphate rock	tonnes	1 944	2 050	1 685	1 233	1 056
Salt	tonnes	4 508	5 091	3 255	3 616	2 666
Talc	tonnes	735	1 124	509	528	636
Zinc						
Ores and concentrates	tonnes	23 106	58 973	...	69 509	60 369
Scrap	tonnes	719	874	576	479	739

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Aluminium and bauxite						
Unwrought (a)	tonnes	2 941	3 930	3 446	2 164	2 839
Scrap	tonnes	496	663	485	1 341	1 554
Cement						
Portland cement	tonnes	44 542	69 220	136 030	193 076	185 378
Chromium						
Ores and concentrates	tonnes	709	1 432	306	495	294
Coal						
Hard coal (b)	tonnes	179 193	199 946	214 078	85 660	160 162
Lignite	tonnes	3 920	1 532	...	340	23 409
Briquettes	tonnes	103 508	63 805	56 640	9 207	7 623
Fluorspar	tonnes	218	380	300	457	350
Graphite	tonnes	648	1 969	1 522	761	875
Gypsum						
Crude and calcined	tonnes	1 106	1 080	976	948	840
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 781	2 467	2 609	1 732	1 823
Ferro-alloys	tonnes	2 860	3 737	3 402	1 618	2 401
Ingots, blooms, billets	tonnes	359 029	501 134	482 294	157 566	145 509
Scrap	tonnes	277 360	310 410	255 543	7 375	292 049
Kaolin	tonnes	9 797	16 849	12 259	4 879	4 985
Magnesite and magnesia	tonnes	5 047	18 863	13 956	10 113	11 266
Manganese						
Ores and concentrates	tonnes	44 040	143 556	170 455	...	56 893
Nickel						
Ores and concentrates	tonnes	466 623	863 999	789 929	985 925	1 210 300
Crude petroleum	tonnes	1 081 738	1 063 614	1 057 671	992 672	...
Natural gas	tonnes	56 876	63 225	86 823	53 192	79 059
Salt	tonnes	40 184	35 657	37 575	39 232	42 011
Silver						
Metal	kilograms	3 901	3 612	3 807	2 229	3 294
Titanium						
Oxides	tonnes	471	383	426	427	504
Zinc						
Unwrought (a)	tonnes	15 658	6 721	4 954	4 147	5 213

Note(s)

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

Malta

Exports

Commodity	Units	2006	2007	2008	2009	2010
Aluminium and bauxite						
Scrap	tonnes	1 221	1 136	1 441	1 361	1 865
Copper						
Scrap	tonnes	1 036	1 790	1 890	1 828	919
Iron, steel and ferro-alloys						
Scrap	tonnes	19 012	28 083	25 379	27 775	29 498
Tin						
Scrap	tonnes	373	340	250	...	...

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	11 666	29 929	25 817	47 363	37 324
Cement						
Portland cement	tonnes	389 690	356 365	374 392	328 411	285 182
Other cement	tonnes	1 518	2 949	1 498	1 552	13 002
Gold						
Metal	kilograms	7 900	9 034	6 820	5 500	8 200
Gypsum						
Crude and calcined	tonnes	7 549	6 309	5 505	2 305	10 446
Mica	tonnes	61	39	48	196	57
Rare earths						
Metals	tonnes	...	...	...	12	...
Salt	tonnes	1 629	3 590	3 794	1 364	1 682
Silver						
Metal	kilograms	1 465	783	5 455	1 090	128
Talc	tonnes	271	179	295	263	257
Titanium						
Oxides	tonnes	512	531	463	470	463

Montenegro

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	...	...	...	40 443	56 432
Crushed rock	tonnes	...	...	...	8 780	19 558
Bauxite	tonnes	659 370	667 053	671 811	45 779	61 205
Alumina	tonnes (Al_2O_3 content)	236 740	240 186	220 426	58 528	—
Primary aluminium	tonnes	121 762	135 151	111 513	63 960	82 043
Coal						
Lignite	tonnes	1 502 334	1 195 515	1 740 076	957 164	1 937 847
Crude steel	tonnes	193 165	173 849	201 623	90 404	48 272
Salt						
Sea salt	tonnes	5 000	20 000	25 200	17 000	11 200

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	502 500	257 653	151 614	127 600	112 522
Aluminium and bauxite						
Bauxite	tonnes	114 899	101 182	101 182	17 122	85 623
Unwrought (a)	tonnes	119 761	122 144	92 372	82 877	76 891
Scrap	tonnes	1 264	1 607	2 692	1 570	2 045
Bentonite and fuller's earth						
Bentonite	tonnes	2	3	1 384	24	48
Coal						
Lignite	tonnes	85 478	57 406	40 449	58 381	69 130
Copper						
Scrap	tonnes	1 379	1 480	1 356	1 029	1 769
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	4 943	18 136	32 159	15 423	18 775
Scrap	tonnes	931	12 380	10 229	14 442	28 570
Salt	tonnes	3 247	2 265	3 505	3 776	14 316

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	29 615	50 573	74 112	44 639	26 703
Aluminium and bauxite						
Alumina	tonnes	9 152	1 333	10	55 777	157 753
Asbestos						
Unmanufactured	tonnes	...	...	48	...	22
Cement						
Portland cement	tonnes	393 506	557 771	517 062	279 497	266 063
Other cement	tonnes	2 494	6 169	214 958	171 150	116 132
Coal						
Lignite	tonnes	12 542	7 285	12 792	6 734	—
Briquettes	tonnes	4	12 181	15 410	3 448	(a)* 0
Diamond						
Dust	carats	65 000	5 000	75 000	30 000	10 000
Fluorspar	tonnes	283	263	294	40	50
Gypsum						
Crude and calcined	tonnes	3 464	1 969	1 747	3 356	653

Montenegro

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	244	2 040	17 864	13 954	322
Ferro-silico-manganese	tonnes	2 028	2 306	2 921	1 664	1 663
Ferro-silicon	tonnes	566	559	697	271	288
Other ferro-alloys	tonnes	442	629	422	127	297
Scrap	tonnes	100 413	138 421	138 502	54 801	19 950
Salt	tonnes	11 085	13 670	4 814	10 402	6 470

Note(s)

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

Netherlands

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	72 147 000	69 437 000	67 622 000	47 000 000	* 47 000 000
Primary aluminium	tonnes	285 317	296 900	317 000	306 000	* 300 000
Cadmium	tonnes	524	495	530	* 490	* 580
Cement						
Cement, finished	tonnes	2 790 000	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000
Pig iron	tonnes	5 417 000	6 412 000	6 130 000	4 655 000	5 799 000
Crude steel	tonnes	6 372 000	7 368 000	6 853 000	5 193 000	6 651 000
Lead, refined	tonnes	* 16 000	* 16 000	* 16 000	* 17 000	* 16 000
Magnesite (a)	tonnes	293 006	* 245 000	316 264	183 256	236 053
Crude petroleum	tonnes	2 022 475	2 576 222	2 163 000	1 312 000	1 020 000
Natural gas	million m ³	73 300	72 431	79 325	74 659	83 944
Salt	tonnes	6 056 000	6 177 000	6 200 000	5 967 000	5 982 000
Slab zinc	tonnes	238 274	234 000	250 000	224 000	264 000

Note(s)

(1) Netherlands is also believed to produce sulphur

(a) Chloride produced from solution mining

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	9 100 000	9 300 000	10 400 000	7 140 000	7 930 000
Aluminium and bauxite						
Bauxite	tonnes	107 660	41 170	129 186	* 59 000	26 997
Unwrought	tonnes	370 471	490 373	332 871	218 141	424 733
Unwrought alloys	tonnes	341 439	341 670	361 012	191 239	320 263
Alumina	tonnes	301 767	542 794	257 169	62 131	8 665
Alumina hydrate	tonnes	45 480	151 641	85 713	65 279	76 244
Scrap	tonnes	334 426	317 877	264 142	200 650	317 038
Antimony						
Metal	tonnes	886	308	185	171	219
Oxide	tonnes	780	496	346	285	433
Arsenic						
Metallic arsenic	tonnes	33	59	67	* 30	11
Barytes	tonnes	37 392	68 798	58 740	121 567	79 880
Bentonite and fuller's earth						
Bentonite	tonnes	132 076	129 692	120 946	135 722	178 093
Fuller's earth	tonnes	2 141	...	...	...	...
Bismuth						
Metal	tonnes	48	238	196	28	34
Bromine	kilograms	1 334 000	1 475 500	1 821 400	1 960 700	1 477 700
Cadmium						
Metal	tonnes	1 064	544	816	305	606
Cement						
Cement clinkers	tonnes	3 119	10 725	0	352	34
Portland cement	tonnes	410 232	278 904	298 133	194 392	201 065
Other cement	tonnes	134 225	12 931	6 217	11 447	57 922
Chromium						
Ores and concentrates	tonnes	74 909	78 433	117 639	32 485	74 483
Metal	tonnes	4 430	2 125	4 282	885	3 569
Coal						
Anthracite	tonnes	196 407	158 572	109 516	78 064	41 054
Other coal	tonnes	11 940 024	14 089 233	6 399 941	5 154 853	7 580 839
Briquettes	tonnes	...	10 188	15	16 347	144 797
Cobalt						
Metal	tonnes	587	1 579	1 090	353	1 733
Oxides	tonnes	112	127	959	65	144

Netherlands

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Unwrought	tonnes	31 204	49 300	65 343	29 260	22 484
Scrap	tonnes	306 132	229 090	241 332	143 329	283 847
Diamond						
Unsorted	Carats	£849 000	£1 000 000	£442 000	£494 000	£371 000
Gem, cut	Carats	£8 997 000	£6 214 000	£7 567 000	£3 780 000	£3 132 000
Industrial	Carats	£2 250 000	£1 891 000	£2 156 000	£1 415 000	£2 179 000
Dust	Carats	£61 000	£82 000	£45 000	£196 000	£51 000
Diatomite	tonnes	1 395	348	301	1 365	359
Feldspar	tonnes	552	456	555	1 355	105
Fluorspar	tonnes	1 587	27 213	12 665	11 333	14 023
Gold						
Metal	kilograms	19 634	22 468	37 439	15 515	34 851
Waste and scrap	kilograms	98 813	4 433	45 456	1 222	57 680
Graphite	tonnes	2 991	4 308	1 378	1 974	2 967
Gypsum						
Crude	tonnes	32 425	49 394	37 991	* 39 600	15 773
Calcined	tonnes	70 005	17 744	15 228	5 550	1 656
Iodine	kilograms	76 080	517 872	773 705	386 170	124 797
Iron ore	tonnes	2 491 191	2 710 120	(a) 85 698	(a) 239 932	121 426
Iron, steel and ferro-alloys						
Pig iron	tonnes	28 806	134 324	170 468	89 714	111 189
Sponge and powder	tonnes	22 899	543	382	* 140	359
Ferro-chrome	tonnes	92 920	94 048	103 036	62 439	170 489
Ferro-silico-chrome	tonnes	299	25	15	...	448
Ferro-manganese	tonnes	28 423	42 958	65 203	33 193	35 353
Ferro-silico-manganese	tonnes	14 118	21 432	17 571	37 593	66 085
Ferro-molybdenum	tonnes	5 652	5 579	3 150	1 894	6 462
Ferro-nickel	tonnes	42 421	42 331	5 086	3 564	6 264
Ferro-niobium	tonnes	217	1 439	1 736	925	1 175
Ferro-silicon	tonnes	97 120	106 764	71 762	87 348	219 244
Ferro-titanium and ferro-silico-titanium	tonnes	4 281	3 706	3 046	2 730	10 510
Ferro-tungsten and ferro-silico-tungsten	tonnes	477	2 010	1 168	476	727
Ferro-vanadium	tonnes	5 855	7 263	2 274	926	1 909
Other ferro-alloys	tonnes	5 683	7 719	22 603	5 582	10 076
Silicon metal	tonnes	56 525	15 237	15 547	46 466	69 896
Ingots, blooms, billets	tonnes	378 061	1 111 462	806 999	157 861	849 018
Scrap	tonnes	4 786 987	4 500 919	4 523 660	* 2 835 000	5 541 773
Kaolin	tonnes	431 027	416 108	72 264	33 563	33 923
Lead						
Ores and concentrates	tonnes	27 068	2 897	55 980	74 725	63 921
Unwrought	tonnes	11 133	14 824	7 725	11 061	12 971
Scrap	tonnes	16 067	21 822	12 278	13 807	35 168
Lithium						
Oxides	tonnes	154	331	511	205	116
Carbonate	tonnes	405	318	299	227	160
Magnesite and magnesia						
Magnesite	tonnes	4 750	582	494	180	423
Magnesia	tonnes	465 555	128 060	344 675	160 337	139 516
Manganese						
Ores and concentrates	tonnes	33 386	8 223	19 103	28 701	21 806
Metal	tonnes	16 739	19 767	19 144	15 642	38 159
Mercury	kilograms	176 670	196 039	192 605	419 480	195 272
Mica	tonnes	2 735	6 842	1 341	3 214	1 687
Molybdenum						
Ores and concentrates	tonnes	27 264	26 613	16 284	4 408	17 126
Metal	tonnes	190	409	282	46	249
Oxides	tonnes	2 110	3 059	4 253	1 805	6 429
Nickel						
Mattes, sinters etc (b)	tonnes	* 11 700	* 6 500	* 2 400	* 2 900	* 1 800
Unwrought (c)	tonnes	...	80	117	105	165
Scrap	tonnes	1 740	4 456	4 614	1 711	1 956
Crude petroleum	tonnes	309 456	207 858	328 795	184 860	340 357
Phosphate rock	tonnes	98 687	106 235	120 214	11 807	138 239

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Platinum metals						
Platinum	kilograms	£8 718 000	£8 190 000	£18 207 000	£59 804 000	£14 634 000
Other platinum metals	kilograms	£3 971 000	£3 766 000	£10 385 000	£10 383 000	£7 953 000
Waste and scrap	kilograms	16 569	25 850	352 175	* 163 160	1 877
Potash						
Fertiliser salts	tonnes	696	...	...	...	...
Sulphate	tonnes	842	7 918	1 424	4 431	7 854
Chloride	tonnes	152 423	170 921	147 436	133 012	174 453
Other potassic fertilisers	tonnes	1 557	1 162	1 341	2 680	15 619
Rare earths						
Rare earth compounds	tonnes	157	77	131	* 150	177
Metals	tonnes	16	64	202	* 135	86
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	11 568	10 807	11 664
Salt	tonnes	4 126 810	4 055 898	3 878 601	* 3 412 200	3 456 740
Sillimanite minerals	tonnes	7 679	9 689	10 848	5 602	6 907
Silver						
Ores and concentrates	kilograms	26 860	...	18 000	...	1 458
Metal	kilograms	151 077	144 024	208 300	196 180	216 182
Sulphur and pyrites						
Pyrites	tonnes	82 883	102 300	132 802	10 039	56 610
Sulphur	tonnes	436 669	460 352	850 183	36 898	480 968
Talc	tonnes	190 668	199 896	186 688	147 544	173 042
Tantalum and niobium						
Tantalum	tonnes	76	2	2	4	22
Tin						
Unwrought	tonnes	6 971	8 061	2 566	1 536	4 043
Unwrought alloys	tonnes	1 051	293	948	558	856
Scrap	tonnes	761	545	157	547	544
Titanium						
Titanium minerals	tonnes	1 660	449	1 341	13 664	101 840
Metal	tonnes	1 902	2 182	1 551	895	4 117
Oxides	tonnes	95 512	64 544	15 544	36 179	31 385
Tungsten						
Ores and concentrates	tonnes	276	181	29	...	104
Metal	tonnes	434	391	582	133	406
Vanadium						
Pentoxide	tonnes	411	157	45	102	122
Zinc						
Ores and concentrates	tonnes	3 730	13 939	0	425	12 182
Unwrought	tonnes	615 269	243 354	244 789	133 994	166 281
Unwrought alloys	tonnes	38 116	31 276	23 932	22 041	42 182
Scrap	tonnes	39 073	67 010	19 815	* 11 900	32 543
Zirconium						
Concentrates	tonnes	7 391	14 539	8 223	4 639	11 091

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	25 238 254	26 662 441	26 922 364	* 25 007 000	26 065 573
Aluminium and bauxite						
Bauxite	tonnes	118 203	108 088	182 711	68 038	113 499
Alumina	tonnes	440 195	706 255	689 724	153 891	692 413
Alumina hydrate	tonnes	205 902	190 351	178 940	52 798	167 596
Unwrought	tonnes	650 035	713 441	248 386	134 950	384 724
Unwrought alloys	tonnes	321 582	358 930	479 786	284 410	462 371
Scrap	tonnes	197 160	204 117	210 203	88 053	184 066
Antimony						
Metal	tonnes	651	699	234	150	314
Oxide	tonnes	35 127	3 783	51 439	2 257	57 454
Arsenic						
Metallic arsenic	tonnes	20	19	8	* 45	2
Barytes	tonnes	88 489	148 808	122 039	43 928	161 343
Bentonite and fuller's earth						
Bentonite	tonnes	281 144	305 364	314 298	* 190 000	237 683
Fuller's earth	tonnes	80 511	...	...	...	...
Bismuth						
Metal	tonnes	168	127	120	42	259
Bromine (a)	kilograms	3 037	4 403	7 661	63 310	321 599
Cadmium						
Metal	tonnes	113	437	186	50	102
Cement						
Cement clinkers	tonnes	494 944	228 817	380 281	511 560	636 694
Portland cement	tonnes	1 925 756	2 072 034	1 705 144	904 788	1 123 936
Other cement	tonnes	1 452 353	722 635	993 318	842 190	1 136 163
Chromium						
Ores and concentrates	tonnes	99 305	125 778	145 698	18 702	88 788
Metal	tonnes	3 632	2 222	3 897	2 157	6 642
Coal						
Anthracite	tonnes	218 516	62 577	79 784	8 005	44 958
Other coal	tonnes	21 368 119	24 622 621	17 843 689	14 084 993	18 783 491
Lignite	tonnes	22 548	29 517	5 265	29 239	21 933
Briquettes	tonnes	83 734	68 765	53 432	53 030	132 281
Cobalt						
Metal	tonnes	1 511	1 270	1 124	* 491	962
Oxides	tonnes	269	489	244	54	118
Copper						
Unwrought, unrefined	tonnes	18 333	18 130	26	2 678	7 194
Unwrought, refined	tonnes	147 428	151 515	35 077	33 771	26 982
Unwrought alloys	tonnes	2 214	3 379	2 440	1 329	2 101
Scrap	tonnes	110 753	117 259	116 503	—	144 426
Diamond						
Unsorted	carats	£225 000	£299 000	£803 000	£551 000	£80 000
Gem, rough	carats	£369 000	£320 000	£1 071 000	£95 000	£47 000
Gem, cut	carats	£22 397 000	£13 943 000	£17 750 000	£10 757 000	£15 248 000
Industrial	carats	£1 850 000	£859 000	£1 088 000	£613 000	£624 000
Dust	carats	3 998 115	1 089 105	791 805	426 830	290 475
Diatomite	tonnes	6 799	7 214	6 275	3 794	4 641
Feldspar	tonnes	7 505	8 529	12 633	8 849	15 721
Fluorspar	tonnes	7 836	48 089	13 860	13 014	14 295
Gold						
Metal	kilograms	22 122	21 706	41 012	42 806	37 888
Waste and scrap	kilograms	92 890	19 174	2 422	111	110 465
Graphite	tonnes	5 362	13 463	42 612	2 487	16 692
Gypsum						
Crude	tonnes	227 950	402 915	285 990	249 206	203 179
Calcined	tonnes	483 249	430 550	415 623	418 481	368 523
Iodine	kilograms	158 145	1 870	800 817	23 376	16 031
Iron ore	tonnes	10 833 565	12 693 210	10 831 769	(b) 4 585 303	(b) 8 810 077

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	122 097	158 199	292 867	122 185	98 575
Sponge and powder	tonnes	251 304	244 874	253 882	109 768	378 111
Ferro-chrome	tonnes	204 637	325 741	275 995	40 931	93 919
Ferro-silico-chrome	tonnes	1 125	674	1	1 394	2 838
Ferro-manganese	tonnes	102 493	105 789	96 135	39 045	86 504
Ferro-silico-manganese	tonnes	47 986	81 034	70 108	29 335	57 967
Ferro-molybdenum	tonnes	7 554	11 826	8 566	2 868	4 643
Ferro-nickel	tonnes	17 866	16 878	17 602	4 274	19 378
Ferro-niobium	tonnes	159	465	2 074	949	920
Ferro-silicon	tonnes	122 016	160 792	114 290	79 461	178 138
Ferro-titanium and ferro-silico-titanium	tonnes	11 005	10 730	6 781	1 860	11 922
Ferro-tungsten and ferro-silico-tungsten	tonnes	965	1 186	1 572	554	1 168
Ferro-vanadium	tonnes	4 409	4 132	2 042	519	2 014
Other ferro-alloys	tonnes	25 282	12 829	30 407	6 951	11 263
Silicon metal	tonnes	69 104	68 719	57 446	41 740	82 599
Ingots, blooms, billets	tonnes	390 652	269 481	283 834	110 561	536 157
Scrap	tonnes	2 321 144	1 669 159	1 842 597	* 1 135 000	1 988 278
Kaolin	tonnes	627 768	612 720	352 122	68 072	150 929
Lead						
Ores and concentrates	tonnes	13 186	22 303	5 307	1 935	1 558
Unwrought	tonnes	24 272	22 419	9 373	7 195	8 717
Scrap	tonnes	17 508	22 006	11 325	13 593	21 255
Lithium						
Oxides	tonnes	359	428	537	228	290
Carbonate	tonnes	1 356	1 459	729	316	431
Magnesite and magnesia						
Magnesite	tonnes	3 007	1 390	3 609	3 259	459
Magnesia	tonnes	454 271	437 684	314 860	80 478	345 154
Manganese						
Ores and concentrates	tonnes	22 495	11 749	10 664	9 398	23 045
Metal	tonnes	22 162	31 236	35 573	19 083	50 866
Mercury	kilograms	888 164	674 888	293 481	* 101 000	30 636
Mica						
Unmanufactured	tonnes	176	400	751	523	191
Ground	tonnes	7 251	9 933	2 618	3 490	21 756
Molybdenum						
Ores and concentrates	tonnes	34 891	30 403	36 305	9 555	35 335
Metal	tonnes	801	1 060	572	84	274
Oxides	tonnes	1 441	1 341	859	230	594
Nickel						
Ores and concentrates	tonnes	...	15	11	* 220	5 940
Unwrought alloys	tonnes	139	204	1 227	227	638
Scrap	tonnes	9 870	14 008	12 647	4 666	21 724
Oxides (c)	tonnes	* 140	* 20	* 30	* 70	* 50
Crude petroleum	tonnes	61 548 064	57 027 374	58 484 561	35 086 584	60 408 191
Natural gas	tonnes	29 784 906	(c)* 10 072 000	(c)* 17 228 000	(c)* 9 512 000	(c)* 11 044 000
Phosphate rock	tonnes	815 692	847 776	1 108 711	192 355	779 354
Platinum metals						
Platinum	kilograms	£21 771 000	£22 785 000	£89 137 000	£78 613 000	£25 740 000
Other platinum metals	kilograms	£7 066 000	£7 722 000	£8 219 000	£11 659 000	£13 014 000
Potash						
Sulphate	tonnes	24 658	21 211	17 393	28 984	21 982
Chloride	tonnes	265 838	314 011	307 612	204 377	430 138
Other potassic fertilisers	tonnes	5 283	6 691	3 899	3 466	1 542
Rare earths						
Cerium compounds	tonnes	290	473	278	71	88
Other rare earth compounds	tonnes	2 781	3 868	2 766	* 1 100	568
Metals	tonnes	135	100	261	* 200	48
Ferro-cerium and other pyrophoric alloys	tonnes	3	3	4	6	2
Salt	tonnes	1 150 949	193 457	167 508	* 253 000	1 404 032
Sillimanite minerals	tonnes	24 195	17 488	24 457	4 189	188 698
Silver						
Metal	kilograms	263 049	229 637	265 925	218 279	304 219
Sulphur and pyrites						
Pyrites	tonnes	109	80	145 627	2 119	48
Sulphur	tonnes	23 928	38 189	55 173	11 430	49 399

Netherlands

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Talc	tonnes	243 071	225 720	207 922	94 407	178 312
Tantalum and niobium						
Tantalum	tonnes	6	8	10	4	6
Tin						
Unwrought	tonnes	13 696	7 858	11 003	7 071	13 967
Unwrought alloys	tonnes	1 283	1 972	2 540	504	665
Scrap	tonnes	466	607	503	380	606
Titanium						
Titanium minerals	tonnes	79 377	103 580	87 769	* 100 000	238 199
Metal	tonnes	2 234	4 295	1 073	1 224	5 330
Oxides	tonnes	8 387	41 221	37 101	40 914	43 542
Tungsten						
Ores and concentrates	tonnes	1 532	875	457	(c)* 900	(c)* 1 200
Metal	tonnes	330	284	329	71	206
Carbide	tonnes	49	36	94	42	18
Vanadium						
Pentoxide	tonnes	362	316	227	27	204
Zinc						
Ores and concentrates	tonnes	532 861	359 520	430 617	320 568	391 050
Unwrought	tonnes	200 472	182 072	155 003	104 253	254 953
Unwrought alloys	tonnes	40 482	38 602	24 062	15 791	19 827
Scrap	tonnes	14 619	13 633	6 270	8 274	12 653
Zirconium						
Concentrates	tonnes	15 948	20 462	24 694	11 027	23 981
Metal	tonnes	123	199	240	(c)* 70	188

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	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	13 418 000	14 855 000	14 817 000	13 047 000	13 011 000
Crushed rock	tonnes	45 947 000	51 533 000	52 338 000	51 378 000	54 134 000
Primary aluminium	tonnes	1 383 000	1 362 000	1 368 000	1 090 000	1 400 000
Cadmium	tonnes	125	269	178	249	300
Cement						
Cement, finished	tonnes	1 695 000	1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Coal						
Bituminous (a)	tonnes	2 359 000	3 223 000	3 429 000	2 437 000	1 685 000
Cobalt metal	tonnes	4 927	3 939	3 719	3 510	3 208
Copper, refined	tonnes	39 700	34 200	37 000	33 900	36 200
Copper, smelter	tonnes	39 700	34 200	37 000	33 900	36 200
Feldspar	tonnes	65 000	65 000	62 000	48 000	56 000
Graphite	tonnes	9 000	3 000	4 100	4 562	6 270
Iron ore	tonnes	620 000	630 000	746 000	896 000	3 105 000
Pig iron	tonnes	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Crude steel	tonnes	684 000	708 000	560 000	595 000	520 000
Ferro-alloys						
Ferro-manganese	tonnes	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	tonnes	325 708	293 699	273 485	* 250 000	* 250 000
Ferro-silicon	tonnes	123 819	170 024	185 344	233 974	* 235 000
Other ferro-alloys	tonnes	* 60 000	* 62 000	* 60 000	* 60 000	* 60 000
Silicon metal	tonnes	* 150 000	* 140 000	* 155 000	* 150 000	* 150 000
Nepheline Syenite	tonnes	312 000	312 000	346 000	270 000	327 000
Nickel, smelter/refinery	tonnes	82 257	87 600	88 700	88 577	92 185
Nickel, mine	tonnes (metal content)	320	378	377	336	332
Crude petroleum	tonnes	136 695 000	125 763 000	121 101 700	115 000 000	104 881 356
Natural gas	million m ³	87 600	89 700	99 200	103 500	106 430
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	* 110 000	* 95 000	* 95 000	* 90 000	69 000
Recovered (c)	tonnes (sulphur content)	20 000	18 000	28 000	25 000	22 000
Talc	tonnes	* 34 000	* 34 000	* 30 000	23 350	6 392
Titanium						
Ilmenite	tonnes	850 000	882 000	915 000	671 000	864 000
Slab zinc	tonnes	160 670	157 027	145 469	138 973	148 862

Note(s)

(1) Norway is also 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	2006	2007	2008	2009	2010
Primary aggregates	tonnes	14 357 509	16 183 927	16 683 638	13 843 722	16 877 617
Aluminium and bauxite						
Unwrought	tonnes	126 841	113 285	105 729	106 593	74 941
Unwrought alloys	tonnes	1 412 569	1 496 556	1 484 854	1 249 830	1 420 662
Scrap	tonnes	42 804	41 296	41 476	80 729	77 216
Barytes	tonnes	14 199	13 425	5 608	4 069	12 071
Bentonite and fuller's earth						
Bentonite	tonnes	360	254	157	294	3 726
Fuller's earth	tonnes	822	...	...	...	...
Bismuth						
Metal	tonnes	...	...	1	—	25
Cadmium						
Metal	tonnes	90	205	259	211	329

Norway

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Cement						
Cement clinkers (a)	tonnes	* 65 000	* 117 000	* 118 000	* 104 000	* 150 000
Portland cement (a)	tonnes	* 369 000	* 236 000	* 152 000	—	* 144 000
Cobalt						
Metal	tonnes	4 990	4 030	3 731	3 550	3 325
Copper						
Unwrought	tonnes	38 232	34 007	36 734	32 927	35 975
Scrap	tonnes	24 205	24 066	22 561	25 339	37 829
Unwrought alloys	tonnes	1 141	1 161	756	570	546
Diatomite	tonnes	281	566	770	6	1
Feldspar	tonnes	66 838	66 484	58 211	47 711	55 637
Gold						
Metal	kilograms	2 337	2 601	3 847	3 865	4 567
Waste and scrap	kilograms	182	426	600	1 197	1 482
Gypsum						
Crude and calcined	tonnes	40 811	51 212	69 976	68 140	36 298
Iodine	kilograms	17	7 200	—	250	—
Iron ore	tonnes	(b) 723 240	739 731	615 296	775 828	1 803 242
Iron, steel and ferro-alloys						
Pig iron (a)	tonnes	* 149 400	* 119 800	* 110 100	* 75 000	* 118 000
Ferro-chrome	tonnes	(a)* 200	(a)* 100	(a)* 80	—	(a)* 30
Ferro-manganese (a)	tonnes	* 287 500	* 329 400	* 354 000	* 203 000	* 332 000
Ferro-silico-manganese	tonnes	306 932	280 028	257 804	200 279	245 095
Ferro-silicon	tonnes	90 556	155 198	209 669	115 682	214 643
Other ferro-alloys	tonnes	58 033	...	57 954	16 207	2 132
Silicon metal	tonnes	152 514	144 607	155 385	109 254	162 649
Ingots, blooms, billets	tonnes	180 500	176 755	62 625	106 505	64 474
Scrap	tonnes	337 088	290 644	269 370	228 138	337 675
Lead						
Scrap	tonnes	892	974	695	504	1 800
Manganese						
Ores and concentrates	tonnes	7 880	56 939	10 266	9 214	10 709
Metal	tonnes	203	2 373	1 363	59	112
Mica	tonnes	2 157	2 168	2 640	1 835	2 078
Nickel						
Scrap	tonnes	641	1 185	394	274	1 042
Ores and concentrates	tonnes	7 860	5 379	8 093	2 464	4 818
Unwrought	tonnes	81 440	88 628	88 940	88 080	91 813
Crude petroleum	tonnes	105 110 521	99 245 180	91 299 591	87 982 743	77 765 696
Natural gas	tonnes	63 323 422	63 999 250	71 394 708	74 357 298	75 626 277
Platinum metals						
Platinum and platinum metals	kilograms	11 885	14 611	15 393	12 341	9 714
Waste and scrap	kilograms	29 817	66 193	5 119	35 829	157 937
Potash						
Chloride	tonnes	2 243	1 285	—	—	...
Rare earths						
Metals	tonnes	59	0	1	105	—
Other rare earth compounds	tonnes	...	1	21	21	30
Salt	tonnes	9 040	4 178	4 833	14 998	12 609
Silver						
Metal	kilograms	52 952	45 461	59 381	58 979	57 617
Sulphur and pyrites						
Sulphur	tonnes	20	3 325	—	—	1
Talc	tonnes	31 834	33 032	27 371	23 461	728
Tin						
Scrap	tonnes	236	189	119	12	39
Titanium						
Titanium minerals (a)	tonnes	* 477 000	* 435 000	* 435 000	* 350 000	* 465 000
Metal	tonnes	176	117	339	227	231
Oxides (a)	tonnes	* 221 000	* 199 000	* 217 000	* 207 000	* 35 000
Zinc						
Unwrought	tonnes	138 491	130 570	130 397	128 416	122 649
Unwrought alloys	tonnes	12 275	13 899	9 227	6 107	19 889

Note(s)

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

(b) Including burnt pyrites

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	66 708	72 906	80 161	66 884	82 706
Aluminium and bauxite						
Bauxite	tonnes	11 384	3 446	10 232	15 444	8 645
Alumina	tonnes	2 730 064	2 535 547	2 753 105	2 069 424	2 144 519
Alumina hydrate	tonnes	43 721	48 560	50 401	45 252	35 379
Unwrought	tonnes	352 293	435 126	381 638	240 409	512 340
Unwrought alloys	tonnes	34 783	73 058	58 995	95 120	68 086
Scrap	tonnes	26 326	32 024	37 386	26 598	38 039
Antimony						
Metal	tonnes	11	70	44	1	1
Oxide	tonnes	507	337	371	200	264
Barytes	tonnes	125 134	127 181	121 259	146 535	149 510
Bentonite and fuller's earth						
Bentonite	tonnes	15 246	14 399	14 783	12 612	14 506
Fuller's earth	tonnes	209	...	...	...	...
Cement						
Cement clinkers	tonnes	8 782	14 895	36 704	6 904	7 070
Portland cement	tonnes	443 104	441 619	361 216	237 896	353 102
Other cement	tonnes	14 147	19 062	22 317	20 474	21 621
Chromium						
Ores and concentrates (a)	tonnes	* 500	* 20	* 600	* 400	* 60
Metal	tonnes	73	253	128	74	90
Coal						
Anthracite (b)	tonnes	55 914	76 744	81 955	54 199	78 387
Other coal (b)	tonnes	472 129	(a)* 527 000	(a)* 538 000	(a)* 367 000	(a)* 205 000
Briquettes	tonnes	349	706	24 406	1 074	1 160
Cobalt						
Metal	tonnes	6 362	3 871	3 131	3 012	2 132
Oxides	tonnes	2	...	...	155	—
Copper						
Unwrought	tonnes	3 133	3 650	3 133	1 627	4 609
Scrap	tonnes	12 759	13 486	11 189	9 727	9 891
Diatomite	tonnes	1 228	1 645	1 891	931	842
Feldspar	tonnes	17 199	12 930	17 367	13 781	16 413
Gold						
Metal	kilograms	1 739	1 448	1 146	670	969
Waste and scrap	kilograms	1 304	1 455	3 940	3 568	4 127
Graphite	tonnes	296	980	561	508	400
Gypsum						
Crude	tonnes	117 892	128 045	121 440	76 435	84 359
Calcined	tonnes	287 568	328 003	298 394	234 564	270 721
Iodine	kilograms	1 919 848	1 785 526	1 668 339	1 270 662	1 708 338
Iron ore	tonnes	216 372	179 727	151 503	134 167	148 809
Iron, steel and ferro-alloys						
Pig iron	tonnes	12 813	11 335	11 198	10 639	1 498
Ferro-chrome	tonnes	1 440	1 303	929	1 162	1 311
Ferro-manganese	tonnes	5 328	10 639	7 448	6 608	5 303
Ferro-silico-manganese	tonnes	2 729	1 034	1 960	1 186	548
Ferro-silicon	tonnes	26 931	43 350	13 502	9 097	10 615
Other ferro-alloys	tonnes	3 392	3 681	2 471	926	1 665
Silicon metal	tonnes	37 439	39 961	40 878	29 810	49 349
Ingots, blooms, billets	tonnes	161 778	195 928	167 309	59 344	4 733
Scrap	tonnes	313 184	267 085	96 427	91 114	108 802
Kaolin	tonnes	241 976	208 709	253 361	190 562	225 576
Lead						
Unwrought	tonnes	4 749	7 055	6 473	5 026	6 449
Magnesite and magnesia						
Magnesite	tonnes	4 265	126	69	17	4
Magnesia	tonnes	1 784	4 298	5 989	4 904	10 987
Manganese						
Ores and concentrates	tonnes	849 729	1 083 361	1 232 799	525 674	1 121 716
Metal	tonnes	3 531	2 953	2 595	1 297	1 974
Mica						
Unmanufactured	tonnes	648	912	1 174	1 021	1 224
Ground	tonnes	373	337	1 243	1 140	1 179
Waste	tonnes	120	18	9	...	...

Norway

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Nickel						
Mattes, sinters etc	tonnes	158 274	165 628	178 502	153 437	170 365
Unwrought (c)	tonnes	60	215	201	199	235
Crude petroleum	tonnes	440 374	1 446 918	828 709	1 225 514	1 508 241
Natural gas	tonnes	(a)* 89 684	118 063	442	231	4 393
Phosphate rock	tonnes	672 546	673 331	682 369	403 098	9 638
Platinum metals						
Platinum and platinum metals	kilograms	922	1 057	1 072	1 005	1 425
Waste and scrap	kilograms	1 102	846	1 093	930	1 362
Potash						
Sulphate	tonnes	266 149	241 918	190 757	123 549	(a)* 93 000
Chloride	tonnes	307 422	349 459	349 459	199 385	(a)* 377 000
Other potassic fertilisers	tonnes	710	659	674	509	612
Rare earths						
Metals	tonnes	686	738	341	24	148
Salt	tonnes	1 026 541	988 001	1 075 905	959 630	1 042 489
Sillimanite minerals	tonnes	2 288	3 404	2 702	4 359	3 456
Silver						
Ores and concentrates (a)	kilograms	* 8 200	* 59 000	* 200	* 5 700	* 1 100
Metal	kilograms	64 511	62 077	67 398	47 040	57 422
Sulphur and pyrites						
Sulphur	tonnes	11 983	5 224	4 690	3 102	2 897
Sulphur, sublimed and precipitated	tonnes	5 571	10 790	12 932	12 127	11 515
Talc	tonnes	10 991	13 374	8 020	6 517	8 356
Tin						
Unwrought (c)	tonnes	126	74	80	71	38
Titanium						
Titanium minerals	tonnes	73 690	17 600	73 307	29 809	45 018
Metal	tonnes	661	637	937	389	412
Oxides	tonnes	16 013	12 121	12 241	8 209	10 115
Vanadium						
Metal	tonnes	63	...	...	...	...
Zinc						
Ores and concentrates	tonnes	248 486	284 791	243 213	209 649	228 828
Unwrought (c)	tonnes	2 828	2 167	3 286	1 612	1 376

Note(s)

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

(b) Excludes coal imported from Spitzbergen

(c) Including alloys

Poland

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel (a)	tonnes	* 116 561 000	* 139 388 000	* 149 312 000	* 140 890 000	* 160 000 000
Crushed rock	tonnes	38 835 618	46 854 829	39 465 558	52 217 696	58 126 448
Primary aluminium	tonnes	42 000	43 000	31 000	—	—
Barytes	tonnes	2 034	2 000	308	300	300
Bentonite and fuller's earth						
Bentonite	tonnes	—	1 300	3 000	2 800	2 200
Cadmium	tonnes	373	421	603	534	451
Cement						
Cement, clinker	tonnes	11 219 940	13 167 950	12 443 103	10 659 214	11 767 782
Cement, finished	tonnes	14 688 353	17 120 000	17 206 735	15 536 984	15 812 117
Coal						
Bituminous	tonnes	95 222 512	88 313 369	84 345 443	78 064 462	76 727 800
Lignite	tonnes	60 844 278	57 537 727	59 668 166	57 108 304	56 510 100
Copper, mine	tonnes (metal content)	497 200	451 900	429 687	439 365	425 725
Copper, refined	tonnes	556 625	532 975	526 808	502 462	547 074
Copper, smelter	tonnes	555 907	518 303	492 942	457 510	469 656
Diatomite	tonnes	600	600	600	670	500
Feldspar	tonnes	431 300	497 900	599 100	445 500	391 900
Gold, mine (b)	kilograms (metal content)	1 700	883	902	814	784
Gypsum						
Gypsum	tonnes	1 172 000	1 298 000	1 283 000	1 119 000	(c) 1 398 492
Anhydrite	tonnes	181 000	194 000	198 000	158 000	...
Pig iron	tonnes	5 332 632	5 804 418	4 933 781	2 983 500	3 637 995
Crude steel	tonnes	9 991 638	10 630 716	9 727 325	7 128 482	7 993 025
Ferro-alloys						
Ferro-manganese	tonnes	4 089	2 093	8 475	1 736	762
Ferro-silico-manganese	tonnes	3 310	15 590	25 061	72	112
Ferro-silicon	tonnes	13 034	58 538	56 031	9 673	53 206
Other ferro-alloys	tonnes	4 488	6 255	2 948	4 190	197
Kaolin (d)	tonnes	148 579	153 670	165 615	136 561	126 810
Lead, mine	tonnes (metal content)	77 450	61 330	67 070	62 910	44 200
Lead, refined	tonnes	82 200	104 200	108 300	100 400	120 300
Magnesite	tonnes	62 500	65 000	60 000	47 000	63 000
Crude petroleum	tonnes	795 742	720 603	754 907	686 992	686 487
Natural gas	million m ³	5 651	5 653	5 382	5 537	5 671
Platinum metals						
Platinum	kilograms (metal content)	30	30	30	30	* 30
Palladium	kilograms (metal content)	20	20	20	20	* 20
Salt						
Rock salt	tonnes	1 129 875	591 240	618 111	988 545	1 235 533
Brine salt	tonnes	2 899 076	2 930 726	2 783 198	2 533 413	2 464 363
Other salt	tonnes	808 247	785 694	706 618	763 385	763 515
Selenium metal	tonnes	87	85	82	80	80
Silver, mine	kilograms (metal content)	1 265 100	1 199 500	1 161 000	1 150 000	1 175 000
Sulphur and pyrites						
Frasch	tonnes (sulphur content)	800 200	833 583	762 119	262 769	516 742
Recovered (e)	tonnes (sulphur content)	308 000	304 000	294 000	257 000	* 264 000
Recovered (f)	tonnes (sulphur content)	203 100	211 900	222 800	214 382	250 075
Zinc, mine	tonnes (metal content)	126 600	129 600	132 400	115 500	107 700
Slab zinc	tonnes	133 900	141 900	142 500	139 100	135 100

Note(s)

(1) Poland is also 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	2006	2007	2008	2009	2010
Primary aggregates	tonnes	1 671 890	1 378 634	1 237 976	902 193	1 031 013
Aluminium and bauxite						
Bauxite	tonnes	1 693	596	536	833	448
Unwrought (a)	tonnes	80 266	78 187	82 242	66 065	103 803
Scrap	tonnes	107 939	113 649	123 468	102 757	123 503
Antimony						
Metal	tonnes	36	22	25	65	27
Bentonite and fuller's earth						
Bentonite	tonnes	15 851	19 107	20 384	23 918	21 987
Fuller's earth	tonnes	580	...	...	...	...
Bromine	kilograms	5 500	9 400	5 000	5 500	9 800
Cadmium						
Metal	tonnes	364	368	558	590	484
Cement						
Cement clinkers	tonnes	856 035	181 690	163 902	127 806	89 692
Portland cement	tonnes	402 741	313 361	314 733	405 940	415 187
Other cement	tonnes	67 457	65 822	78 349	35 305	22 984
Chromium						
Metal	tonnes	11	1 556	1 465	861	7 948
Coal						
Anthracite	tonnes	31 200	30 256	16 173	5 282	41 908
Other coal	tonnes	16 586 467	11 761 743	7 775 799	8 368 190	10 323 041
Lignite	tonnes	317	—	1 009	68 273	116 682
Cobalt						
Oxides	tonnes	3	5	24	64	8
Copper						
Matte and cement	tonnes	6 774	2 187	2 989	1 515	956
Unwrought	tonnes	287 666	239 508	296 738	325 395	332 989
Unwrought alloys	tonnes	6 205	6 397	5 469	2 358	1 180
Scrap	tonnes	55 285	64 377	63 779	64 606	68 686
Diatomite	tonnes	527	774	277	85	111
Feldspar	tonnes	2 749	1 849	2 049	1 829	3 050
Gold						
Metal	kilograms	1 100	300	105 000	121 100	1 100
Waste and scrap	kilograms	1 600	700	4 800	18 000	588
Gypsum						
Crude and calcined	tonnes	40 832	56 003	58 644	40 512	47 654
Iodine	kilograms	200	1 300	5 100	5 100	16 400
Iron ore	tonnes	—	27	10 198	14 893	16 130
Iron, steel and ferro-alloys						
Pig iron	tonnes	19 286	7 481	5 189	10 543	17 340
Ferro-manganese and ferro-silico-manganese	tonnes	11 954	20 412	37 978	21 640	10 113
Ferro-silicon	tonnes	16 023	46 923	52 976	16 401	59 845
Other ferro-alloys	tonnes	1 630	2 364	2 752	2 440	8 320
Ingots, blooms, billets	tonnes	964 361	1 575 099	1 580 450	664 035	490 919
Scrap	tonnes	1 197 827	1 199 620	1 368 952	978 862	1 334 069
Kaolin	tonnes	7 177	10 401	8 936	11 515	9 781
Lead						
Ores and concentrates	tonnes	73 902	70 970	69 852	59 790	35 459
Unwrought	tonnes	68 635	34 455	40 017	48 599	43 945
Scrap	tonnes	2 168	3 120	1 110	1 525	1 668
Magnesite and magnesia	tonnes	654	2 632	1 921	734	1 087
Manganese						
Metal	tonnes	52	460	35	603	2 875
Mercury	kilograms	33 900	61 600	17 700	46 200	106 100
Nickel						
Mattes, sinters etc	tonnes	...	...	...	1 443	1 134
Unwrought	tonnes	312	(a) 466	(a) 334	(a) 172	(a) 1 876
Scrap	tonnes	290	268	647	260	416
Oxides	tonnes	577	558	759	260	38
Crude petroleum	tonnes	243 699	287 684	34 871	17 227	3
Platinum metals						
Platinum and platinum metals	kilograms	350	156	7 275	47 400	1 100
Waste and scrap	kilograms	4 312	139	7 399	1 600	300

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Potash						
Potassic fertilisers	tonnes	3 130	2 202	9 222	13 279	10 687
Rare earths						
Cerium compounds	tonnes	0	15	8	4	7
Other rare earth compounds	tonnes	0	33	22	—	4
Salt	tonnes	498 345	345 335	361 691	503 899	572 595
Silver						
Metal	kilograms	519 800	1 148 300	1 121 900	1 265 200	1 281 800
Sulphur and pyrites						
Sulphur	tonnes	478 736	555 603	446 202	152 484	402 102
Sulphur, sublimed and precipitated	tonnes	18 426	26 376	27 041	29 540	34 752
Tin						
Unwrought (a)	tonnes	182	1 520	355	279	408
Titanium						
Metal	tonnes	917	52	117	105	76
Oxides	tonnes	25 598	21 776	21 509	20 937	20 996
Tungsten						
Metal	tonnes	89	76	143	136	154
Zinc						
Ores and concentrates	tonnes	61 094	61 595	58 035	45 877	4 213
Unwrought	tonnes	62 332	73 096	83 571	84 833	96 142
Unwrought alloys	tonnes	2 513	1 829	3 606	4 699	6 280
Scrap	tonnes	233	422	430	1 617	902

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 976 252	5 566 874	5 868 908	5 349 230	5 014 564
Aluminium and bauxite						
Bauxite	tonnes	61 638	71 598	59 907	49 033	48 664
Alumina	tonnes	114 800	120 768	126 143	27 626	29 920
Alumina hydrate	tonnes	27 358	27 634	25 334	23 083	31 406
Unwrought	tonnes	76 996	105 281	71 563	67 561	125 567
Unwrought alloys	tonnes	167 914	192 930	195 072	144 983	192 393
Scrap	tonnes	52 498	59 623	67 176	67 408	84 622
Antimony						
Metal	tonnes	158	142	52	71	47
Oxide	tonnes	1 338	1 315	1 086	1 034	1 044
Arsenic						
Metallic arsenic	tonnes	21	24	42	20	42
Asbestos						
Unmanufactured	tonnes	52	...	...	35	—
Barytes	tonnes	9 138	10 895	14 334	8 349	11 758
Bentonite and fuller's earth						
Bentonite	tonnes	153 266	162 424	171 633	122 165	155 173
Fuller's earth	tonnes	2 564	...	...	...	...
Bismuth						
Metal	tonnes	14	15	25	20	34
Bromine	kilograms	16 000	14 300	10 600	6 100	17 200
Cement						
Cement clinkers	tonnes	45 560	65 632	127 428	35 106	111 677
Portland cement	tonnes	285 135	520 330	680 447	421 822	565 893
Other cement	tonnes	5 700	22 982	29 529	21 466	26 247
Chromium						
Ores and concentrates	tonnes	16 161	38 543	36 646	12 728	15 672
Metal	tonnes	45	1 717	2 137	679	103

Poland

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Coal						
Anthracite	tonnes	295 026	449 362	553 152	310 290	583 158
Other coal	tonnes	4 866 783	5 442 327	9 531 959	10 362 090	13 127 065
Lignite	tonnes	4 406	8 946	18 057	30 307	35 973
Briquettes	tonnes	3 932	3 986	10 960	25 788	60 548
Cobalt						
Metal	tonnes	52	69	51	53	52
Oxides	tonnes	63	18	30	15	18
Copper						
Ores and concentrates	tonnes	112 708	61 319	62 443	78 027	38 000
Matte and cement	tonnes	5 310	10 062	—	—	612
Unwrought, unrefined	tonnes	31 609	23 880	33 376	40 030	33 717
Unwrought, refined	tonnes	5 493	7 024	6 629	13 838	26 944
Unwrought alloys	tonnes	3 797	4 516	3 012	2 408	2 813
Scrap	tonnes	4 885	18 596	19 269	22 153	24 316
Diamond						
Industrial	carats	31 323	150 918	237 903	169 851	29 305
Dust	carats	* 3 200 000	3 149 550	27 584 081	263 119 707	1 970 015
Diatomite						
Feldspar						
Fluorspar						
Gold						
Metal	kilograms	400	6 100	3 800	100	200
Graphite	tonnes	3 658	5 701	4 474	3 078	6 933
Gypsum						
Crude	tonnes	175 605	296 289	170 571	157 974	129 336
Calcined	tonnes	147 272	238 858	215 458	82 586	53 613
Iodine						
Iron ore						
Iron, steel and ferro-alloys						
Pig iron	tonnes	220 163	228 445	236 682	156 970	176 145
Sponge and powder	tonnes	12 448	10 282	8 390	4 677	7 594
Ferro-chrome	tonnes	12 318	14 113	13 713	6 064	7 785
Ferro-silico-magnesium	tonnes	4 035	9 102	8 194	5 379	7 352
Ferro-manganese	tonnes	35 508	42 352	31 876	32 935	30 721
Ferro-silico-manganese	tonnes	63 332	79 942	47 964	71 585	56 882
Ferro-molybdenum	tonnes	1 168	1 527	1 554	711	612
Ferro-phosphorus	tonnes	1 195	1 492	1 386	675	917
Ferro-silicon	tonnes	24 986	24 846	20 424	16 132	21 576
Other ferro-alloys	tonnes	10 771	1 084	1 017	757	1 365
Silicon metal	tonnes	11 935	13 946	11 652	11 839	16 219
Ingots, blooms, billets	tonnes	569 057	679 404	584 305	157 799	119 466
Scrap	tonnes	289 956	313 907	465 978	596 733	374 076
Kaolin	tonnes	94 257	122 245	126 426	90 183	117 914
Lead						
Unwrought	tonnes	56 504	44 235	35 465	29 861	46 810
Scrap	tonnes	1 633	1 256	2 467	2 293	7 154
Lithium						
Oxides	tonnes	266	245	61	86	86
Carbonate	tonnes	252	184	162	137	175
Magnesite and magnesia						
Magnesite	tonnes	288	1 536	216	2 658	3 966
Magnesia	tonnes	103 092	109 810	109 646	81 304	113 757
Manganese						
Ores and concentrates	tonnes	6 017	32 984	54 087	1 930	4 345
Metal	tonnes	1 155	1 167	716	507	1 514
Mercury						
Mica						
Molybdenum						
Metal	tonnes	208	616	843	281	889
Oxides	tonnes	4	31	71	80	162
Nickel						
Mattes, sinters etc	tonnes	4	38	...	1 468	1 223
Unwrought (b)	tonnes	2 573	2 344	3 398	1 353	3 350
Scrap	tonnes	116	4 897	3 683	2 122	341
Crude petroleum	tonnes	19 479 284	20 778 118	20 949 949	19 959 321	22 009 801
Phosphate rock	tonnes	1 658 266	1 689 120	1 448 780	458 923	1 299 106

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Platinum metals						
Platinum and platinum metals	kilograms	15 500	16 400	16 900	31 300	5 100
Potash						
Fertiliser salts	tonnes	1 066	...	...	...	...
Sulphate	tonnes	14 517	20 242	19 161	10 919	19 155
Chloride	tonnes	770 674	992 979	815 282	194 900	757 987
Other potassic fertilisers	tonnes	4 110	4 659	7 143	3 470	4 442
Rare earths						
Cerium compounds	tonnes	109	85	148	43	134
Other rare earth compounds	tonnes	74	63	58	16	48
Metals	tonnes	7	1	—	2	5
Salt	tonnes	582 080	313 297	356 929	483 243	886 294
Sillimanite minerals						
Sillimanite minerals	tonnes	21 196	23 321	16 975	7 852	17 956
Mullite	tonnes	2 012	4 956	3 728	1 040	2 109
Silver						
Metal	kilograms	28 800	77 000	95 200	122 900	106 700
Sulphur and pyrites						
Pyrites	tonnes	5 065	1 582	5 768	813	1 866
Sulphur	tonnes	83 432	74 805	104 300	35 350	44 939
Sulphur, sublimed and precipitated	tonnes	52	10	105	978	164
Talc	tonnes	22 348	23 122	28 186	18 325	23 331
Tantalum and niobium						
Tantalum	tonnes	0	3	52	1	3
Tin						
Concentrates	tonnes	3	77	...	220	98
Unwrought (b)	tonnes	1 583	1 838	1 857	1 102	1 317
Scrap	tonnes	1 653	1 931	1 038	1 664	1 605
Titanium						
Titanium minerals	tonnes	95 057	100 002	91 208	84 396	105 384
Metal	tonnes	2 550	2 122	451	264	616
Oxides	tonnes	36 943	45 984	41 019	42 031	46 110
Tungsten						
Metal	tonnes	111	108	103	87	124
Vanadium						
Metal	tonnes	41	...	...	...	...
Zinc						
Ores and concentrates	tonnes	129 551	127 720	150 283	130 258	115 561
Unwrought	tonnes	28 714	31 838	26 811	18 498	53 983
Unwrought alloys	tonnes	11 421	13 660	11 906	8 922	7 610
Scrap	tonnes	2 681	4 445	6 378	3 907	7 188
Zirconium						
Concentrates	tonnes	863	542	833	340	648

Note(s)

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

Portugal

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	9 764 029	10 664 828	10 182 146	9 190 603	7 500 000
Crushed rock	tonnes	65 428 239	60 556 329	58 283 117	55 263 772	49 191 754
White arsenic	tonnes	* 15	* 15	* 15	* 15	* 15
Barytes	tonnes	24	25	171	1 078	15
Cement						
Cement, clinker (a)	tonnes	1 484 856	1 513 487	1 760 510	1 749 406	1 102 976
Cement, finished (a)	tonnes	8 326 687	9 178 735	8 365 242	7 031 438	3 855 312
Copper, mine	tonnes (metal content)	78 576	90 182	89 026	86 462	74 011
Feldspar	tonnes	257 570	371 952	230 426	362 392	121 827
Gypsum	tonnes	366 599	418 035	372 731	335 189	256 177
Crude steel	tonnes	1 338 000	1 847 000	1 630 000	1 587 000	1 351 000
Kaolin	tonnes	167 792	183 598	217 434	274 925	284 715
Lead, refined	tonnes	3 000	5 000	5 000	4 000	4 000
Lithium minerals						
Lepidolite	tonnes	28 497	34 755	34 888	37 359	40 609
Salt						
Rock salt	tonnes	586 190	590 588	606 545	594 578	618 961
Sea salt	tonnes	76 858	64 048	69 249	72 325	44 574
Silver, mine	kilograms (metal content)	20 078	26 514	26 273	20 483	20 561
Talc	tonnes	5 517	12 367	11 657	11 567	11 951
Tin, mine	tonnes (metal content)	25	41	29	34	22
Tungsten, mine (b)	tonnes (metal content)	780	846	981	823	799
Zinc, mine	tonnes (metal content)	7 505	24 380	37 900	501	6 422

Note(s)

- (1) Portugal is also believed to produce sulphur
(2) 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	2006	2007	2008	2009	2010
Primary aggregates	tonnes	101 721	120 914	44 174	101 421	67 505
Aluminium and bauxite						
Unwrought alloys	tonnes	152 591	130 636	127 150	90 869	102 856
Scrap	tonnes	38 026	41 603	40 020	32 481	51 888
Antimony						
Metal	tonnes	646	267	60	119	138
Bentonite and fuller's earth						
Bentonite	tonnes	518	1 718	1 608	691	1 175
Cement						
Cement clinkers	tonnes	1 138 307	1 263 190	1 448 397	1 553 992	1 888 362
Portland cement	tonnes	1 204 981	1 481 219	1 102 589	758 854	996 778
Other cement	tonnes	11 364	58 931	11 139	15 231	10 440
Coal						
Anthracite	tonnes	5 870	10 557	9 382	4 409	7 136
Copper						
Ores and concentrates	tonnes	328 296	399 589	375 755	371 881	305 485
Unwrought	tonnes	918	227	600	2 098	1 887
Scrap	tonnes	29 736	24 566	22 184	20 213	24 491
Diamond						
Gem, cut	Carats	£8 000	£105 000	£55 000	£52 000	£550
Diatomite						
Feldspar	tonnes	286	943	554	473	7 545
Gold						
Waste and scrap	kilograms	400	1 100	36 100	800	800

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Gypsum						
Crude and calcined	tonnes	4 349	8 362	22 707	12 394	20 016
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	79 697	138 692	164 425	136 284	172 983
Scrap	tonnes	479 017	378 043	172 133	216 037	303 013
Kaolin	tonnes	46 494	70 580	47 562	51 014	31 390
Lead						
Unwrought	tonnes	2 018	3 092	4 950	6 647	8 785
Scrap	tonnes	9 471	9 961	3 105	2 222	1 710
Natural gas	tonnes	—	—	890 688	254 997	389 309
Platinum metals						
Waste and scrap	kilograms	...	33 500	...	—	...
Potash						
Potassic fertilisers	tonnes	42	80	240	402	612
Salt	tonnes	11 872	25 341	13 412	15 662	31 022
Silver						
Ores and concentrates	kilograms	...	4 000	13 500	11 500	12 300
Metal	kilograms	411	218	7 876	580	3 400
Sulphur and pyrites						
Sulphur	tonnes	9 747	15 410	7 539	5 737	6 164
Sulphur, sublimed and precipitated	tonnes	500	1	136	15	—
Talc	tonnes	6 013	4 243	3 841	2 699	4 316
Tantalum and niobium						
Tantalum	tonnes	4	63	48	49	98
Tin						
Unwrought alloys	tonnes	146	172	—	—	—
Scrap	tonnes	124	25	147	9	43
Titanium						
Oxides	tonnes	840	1 064	1 189	1 166	1 091
Tungsten						
Ores and concentrates	tonnes	1 305	1 466	1 705	1 407	1 289
Zinc						
Ores and concentrates	tonnes	13 035	40 950	75 414	371	7 438
Unwrought (a)	tonnes	706	242	1 307	849	151
Scrap	tonnes	2 023	3 345	2 910	1 646	940

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	488 917	731 709	194 088	175 576	224 514
Aluminium and bauxite						
Alumina	tonnes	7 760	9 325	9 750	13 742	14 862
Unwrought	tonnes	16 292	16 859	17 732	15 200	20 152
Unwrought alloys	tonnes	237 617	214 990	214 614	149 759	170 057
Scrap	tonnes	1 487	3 994	2 409	15 819	10 183
Antimony						
Oxide	tonnes	166	172	161	146	240
Barytes	tonnes	3 099	1 934	3 806	3 744	4 448
Bentonite and fuller's earth						
Bentonite	tonnes	17 640	18 480	20 304	12 788	18 205
Fuller's earth	tonnes	379	...	...	...	...
Cement						
Cement clinkers	tonnes	140 673	331 025	196 929	24 156	24 143
Portland cement	tonnes	356 040	45 012	22 862	150 065	186 170
Other cement	tonnes	14 286	11 966	8 842	11 072	11 771
Chromium						
Ores and concentrates	tonnes	2 845	3 339	5 369	2 361	2 108
Metal	tonnes	336	55	53	28	45

Portugal

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Coal						
Anthracite	tonnes	30 688	44 447	48 793	28 472	21 454
Other coal	tonnes	5 630 721	4 733 158	3 721 513	4 922 698	2 648 704
Copper						
Unwrought	tonnes	5 752	5 309	5 534	8 480	9 661
Scrap	tonnes	5 946	8 503	10 229	7 550	8 819
Diamond						
Gem, cut	carats	£2 940 000	£3 435 000	£3 949 000	£1 756 000	£2 039 000
Industrial	carats	£381 000	£427 000	£296 000	£246 000	£111 000
Dust	carats	4 641 090	8 473 445	5 891 661	5 514 973	10 086 701
Diatomite	tonnes	3 432	1 731	1 372	1 127	2 284
Feldspar	tonnes	98 106	108 150	85 400	72 275	63 675
Fluorspar	tonnes	2 530	2 423	1 828	2 243	636
Gold						
Metal	kilograms	3 224	2 003	1 535	1 077	1 500
Graphite	tonnes	1 954	2 210	1 493	73	66
Gypsum						
Crude	tonnes	96 070	75 794	89 627	81 971	73 822
Calcined	tonnes	307 953	320 174	298 708	244 809	270 783
Iodine	kilograms	1 400	900	100	8 000	8 700
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 149	17 468	13 824	7 507	10 623
Sponge and powder	tonnes	866	1 498	740	38 849	6 919
Ferro-chrome	tonnes	1 160	1 050	1 093	245	810
Ferro-silico-magnesium	tonnes	1 005	6 070	6 228	4 551	2 072
Ferro-manganese	tonnes	816	1 281	908	762	856
Ferro-silico-manganese	tonnes	12 779	9 835	10 063	9 921	3 820
Ferro-silicon	tonnes	3 341	3 355	3 479	3 707	2 902
Other ferro-alloys	tonnes	7 270	187	393	69	61
Ingots, blooms, billets	tonnes	14 494	84 769	26 532	53 089	28 583
Scrap	tonnes	1 056 949	1 075 517	1 128 391	887 110	672 856
Kaolin	tonnes	137 656	154 891	114 041	73 081	96 851
Lead						
Unwrought	tonnes	17 523	14 704	12 014	6 642	5 593
Magnesite and magnesia						
Magnesite	tonnes	1 269	924	1 521	697	1 162
Magnesia	tonnes	6 544	7 119	5 863	8 538	4 504
Manganese						
Ores and concentrates	tonnes	63	51	765	13	68
Mercury	kilograms	—	—	7 500	25 100	152 900
Mica	tonnes	630	284	125	139	284
Nickel						
Unwrought	tonnes	(a) 739	(a) 450	524	316	312
Crude petroleum	tonnes	13 479 579	12 386 104	12 050 226	10 193 366	11 251 958
Natural gas	tonnes	3 356 949	3 758 075	4 188 706	3 770 943	3 849 819
Phosphate rock	tonnes	91 912	114 826	90 667	44 189	93 348
Platinum metals						
Platinum and platinum metals	kilograms	77	57	308	146	796
Potash						
Sulphate	tonnes	3 227	4 223	1 869	1 574	3 840
Chloride	tonnes	58 237	51 600	38 200	25 525	50 687
Other potassic fertilisers	tonnes	2 141	1 629	1 708	5 389	1 899
Rare earths						
Metals	tonnes	5	0	0	...	1
Rare earth compounds	tonnes	46	115	20	12	11
Salt	tonnes	110 581	169 480	94 501	108 161	172 107
Sillimanite minerals	tonnes	192	293	646	573	466
Silver						
Metal	kilograms	36 450	30 616	22 678	18 602	66 900
Sulphur and pyrites						
Sulphur	tonnes	4 485	3 233	2 852	3 366	4 861
Talc	tonnes	30 955	36 089	26 774	18 537	24 143
Tantalum and niobium						
Tantalum	tonnes	103	69	83	22	41
Tin						
Unwrought	tonnes	763	577	487	308	317
Unwrought alloys	tonnes	274	419	130	103	100

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Titanium						
Titanium minerals	tonnes	47	412	263	358	714
Oxides	tonnes	18 565	19 545	18 800	18 456	20 486
Tungsten						
Metal	tonnes	106	122	251	193	277
Carbide	tonnes	97	119	169	46	110
Zinc						
Unwrought	tonnes	19 015	16 367	19 551	12 830	15 757
Unwrought alloys	tonnes	5 778	5 054	4 617	4 018	4 522
Zirconium						
Concentrates	tonnes	6 426	7 205	8 162	5 620	5 475

Note(s)

(a) Including alloys

Romania

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	21 817 372	26 276 857	31 377 110	23 199 337	22 083 463
Crushed rock	tonnes	3 373 384	5 905 842	4 635 010	4 705 884	3 764 044
Alumina	tonnes (Al_2O_3 content)	622 083	22 830	344	44 000	414 000
Primary aluminium	tonnes	262 056	283 449	288 156	228 630	241 000
Bentonite and fuller's earth						
Bentonite	tonnes	21 165	16 911	16 638	13 756	21 963
Bismuth, mine	tonnes (metal content)	* 40	* 40	* 40	* 40	* 40
Cement						
Cement, clinker	tonnes	606 088	222 699	111 719	—	—
Cement, finished	tonnes	8 198 090	9 844 706	10 461 456	7 902 328	7 008 422
Coal						
Lignite	tonnes	32 753 526	35 671 000	34 529 000	28 460 152	28 774 244
Brown coal	tonnes	* 58 000	97 000	205 000	63 458	62 448
Copper, mine	tonnes (metal content)	12 535	2 213	308	3 129	5 127
Copper, refined	tonnes	21 583	18 589	15 300	4 600	—
Diatomite	tonnes	1 719	2 057	—	—	—
Feldspar	tonnes	33 100	41 477	22 995	14 317	6 049
Gold, mine	kilograms (metal content)	* 500	* 500	* 500	* 500	* 500
Graphite	tonnes	—	—	—	24 352	6 633
Gypsum	tonnes	615 072	1 004 150	832 248	720 713	639 010
Iron ore	tonnes	122 684	8 157	—	—	—
Pig iron	tonnes	3 945 975	3 923 244	2 957 715	1 576 679	1 723 418
Crude steel	tonnes	6 266 036	6 269 486	5 035 164	2 772 679	3 720 775
Ferro-alloys						
Ferro-chrome	tonnes	—	—	6 179	15 377	14 353
Ferro-manganese	tonnes	3 777	—	—	—	—
Ferro-silico-manganese	tonnes	66 476	26 868	9 979	—	20 605
Kaolin	tonnes	11 063	7 576	3 060	651	326
Lead, mine	tonnes (metal content)	6 269	784	—	—	—
Lead, refined	tonnes	34 133	39 369	39 596	8 687	11 263
Manganese ore	tonnes	60 107	49 350	43 590	20 304	13 120
Crude petroleum	tonnes	4 777 000	4 837 000	4 528 000	4 388 940	4 172 411
Natural gas	million m ³	12 422	11 981	11 520	11 273	11 138
Salt	tonnes	2 621 129	2 475 349	2 526 774	2 072 744	2 388 357
Silver, mine	kilograms (metal content)	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Talc	tonnes	2 967	1 513	1 843	570	296
Uranium, mine	tonnes (metal content)	* 90	* 77	* 77	* 75	* 77
Zinc, mine	tonnes (metal content)	8 052	849	14	—	—
Slab zinc	tonnes	43 705	58 342	61 978	1 000	—

Note(s)

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

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	51 793	111 803	60 190	160 241	360 161
Aluminium and bauxite						
Bauxite	tonnes	129	47	526	161	1 513
Unwrought	tonnes	12 672	23 193	61 638	50 496	10 312
Unwrought alloys	tonnes	10 110	9 080	6 690	5 898	51 556
Alumina	tonnes	137 753	5 191	0	99	25 559
Scrap	tonnes	11 132	14 332	16 021	20 775	17 733
Bentonite and fuller's earth						
Bentonite	tonnes	521	68	10	31	31
Cement						
Cement clinkers	tonnes	608 616	243 116	111 719	182	265
Portland cement	tonnes	447 713	134 044	7 449	17 869	20 039
Coal						
Hard coal (a)	tonnes	7 997	67 304	5 331	19 771	73 002
Briquettes	tonnes	...	...	...	...	...
Copper						
Ores and concentrates	tonnes	72 900	23 689	33 391	6 711	31 582
Matte and cement	tonnes	2 818	11 569	8 494	4 502	956
Scrap	tonnes	41 911	35 856	39 733	42 148	49 248
Feldspar	tonnes	20 563	25 102	16 438	8 375	1
Gypsum						
Crude and calcined	tonnes	14 283	13 507	13 069	17 966	17 672
Iron ore						
Iron ore	tonnes	...	21	42 606	172 372	1 718
Burnt pyrites	tonnes	1	24 068	15 567	12 694	1 359
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	12 851	17 832	18 697	18 807	24 454
Ferro-silico-manganese	tonnes	41 000	33 529	5 793	8 120	19 087
Other ferro-alloys	tonnes	3 561	872	1 493	6 273	14 579
Ingots, blooms, billets	tonnes	87 685	183 551	220 136	51 644	196 302
Scrap	tonnes	1 862 498	1 963 213	1 985 977	2 565 443	2 519 237
Lead						
Ores and concentrates	tonnes	18 104	10 501	17 396	15 759	9 096
Unwrought	tonnes	18 786	23 289	22 752	9 049	10 573
Scrap	tonnes	4 389	4 659	2 997	2 526	5 659
Magnesite and magnesia						
Magnesia	tonnes	277	351	440	381	460
Manganese						
Metal	tonnes	1	3 024	6 666	—	—
Nickel						
Scrap	tonnes	72	90	1 397	1 089	816
Salt	tonnes	503 629	506 641	486 040	372 501	790 530
Sulphur and pyrites						
Pyrites	tonnes	73	0	994	6 315	8
Sulphur	tonnes	43 255	45 579	59 030	49 052	55 961
Titanium						
Metal	tonnes	579	650	2 469	541	960
Zinc						
Ores and concentrates	tonnes	16 796	4 043	503	24 528	15 375
Unwrought (b)	tonnes	32 008	48 339	59 395	8 004	657
Scrap	tonnes	228	1 348	442	1 615	711

Note(s)

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	332 190	352 576	351 123	205 133	248 484
Aluminium and bauxite						
Bauxite	tonnes	1 597 023	75 934	45 527	104 404	1 277 587
Alumina	tonnes	28 342	482 375	487 304	353 846	1 928
Alumina hydrate	tonnes	15 252	16 927	17 822	7 996	10 412
Unwrought (a)	tonnes	4 151	10 191	16 416	17 383	33 874
Scrap	tonnes	436	3 833	598	3 838	83 381
Antimony						
Metal	tonnes	43	68	30	36	61
Oxide	tonnes	97	190	153	87	88
Asbestos						
Unmanufactured	tonnes	3 272	0	1	0	—
Barytes	tonnes	7 604	14 040	25 475	8 351	8 501
Bentonite and fuller's earth						
Bentonite	tonnes	4 685	5 253	6 014	3 859	4 825
Fuller's earth	tonnes	358	...	...	...	...
Bromine (b)	kilograms	9 104	152 319	267 073	285 593	230 850
Cement						
Cement clinkers	tonnes	280	500 794	486 462	23 613	75 812
Portland cement	tonnes	102 759	142 476	538 259	296 687	307 977
Other cement	tonnes	3 085	12 072	32 765	15 779	22 004
Chromium						
Ores and concentrates	tonnes	1 675	1 856	77 546	705	7 054
Metal	tonnes	957	78	64	39	16
Coal						
Anthracite	tonnes	60 272	68 924	110 484	56 296	72 776
Other coal	tonnes	3 398 344	4 421 709	3 008 391	937 077	936 727
Lignite	tonnes	620 251	575 514	121 227	62 469	718
Briquettes	tonnes	95	237 051	148 890	102 372	96 428
Cobalt						
Oxides	tonnes	14	29	6	37	41
Copper						
Unwrought	tonnes	12 794	25 093	22 116	10 926	2 282
Scrap	tonnes	2 946	1 710	4 197	437	2 443
Diatomite	tonnes	3 707	3 254	3 798	2 477	2 269
Feldspar	tonnes	31 433	48 999	49 160	37 639	36 924
Fluorspar	tonnes	3 915	4 738	2 526	1 481	2 911
Graphite	tonnes	488	542	304	144	1 499
Gypsum						
Crude	tonnes	53 211	66 231	90 194	45 891	40 703
Calcined	tonnes	65 441	77 900	100 471	62 134	47 912
Iodine	kilograms	1 107	2 636	1 395	330	300
Iron ore						
Iron ore	tonnes	6 054 765	6 259 705	5 003 811	1 597 033	2 848 921
Burnt pyrites	tonnes	62 505	2 824	17 770	11 572	29 544
Iron, steel and ferro-alloys						
Pig iron	tonnes	9 872	53 779	37 889	61 027	111 702
Sponge and powder	tonnes	1 415	2 446	3 203	1 518	2 740
Ferro-chrome	tonnes	3 022	2 838	3 423	984	1 500
Ferro-manganese	tonnes	36 872	34 126	28 773	9 063	15 530
Ferro-silico-manganese	tonnes	18 432	37 558	17 919	11 461	19 151
Ferro-silicon	tonnes	17 152	21 156	13 190	4 998	9 859
Other ferro-alloys	tonnes	3 167	3 191	2 412	1 508	2 210
Silicon metal	tonnes	8 947	1 192	3 155	1 104	3 098
Ingots, blooms, billets	tonnes	633 196	922 499	757 551	109 046	458 742
Scrap	tonnes	9 867	15 771	17 886	4 204	5 501
Kaolin	tonnes	54 862	51 347	48 422	40 326	51 754
Lead						
Ores and concentrates	tonnes	13 288	17 064	27 055	5 889	7 052
Unwrought	tonnes	1 400	835	872	9 245	11 834
Magnesite and magnesia						
Magnesite	tonnes	516	187	139	1	264
Magnesia	tonnes	27 447	19 666	13 003	7 427	10 389
Manganese						
Ores and concentrates	tonnes	3 134	79	16 432	16	87 880
Metal	tonnes	1 000	3 030	646	527	220

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Mercury	kilograms	49 623	80 054	2 325	415	18 149
Mica	tonnes	912	478	488	441	785
Nickel						
Unwrought (a)	tonnes	747	528	338	288	456
Crude petroleum	tonnes	8 678 466	8 533 821	8 419 364	6 893 956	5 821 640
Natural gas	tonnes	4 048 749	8 877 219	7 757 273	1 451 767	2 122
Phosphate rock	tonnes	148 110	193 276	225 581	103 500	233 377
Potash						
Sulphate	tonnes	6 361	4 086	5 133	19 592	13 726
Chloride	tonnes	35 384	50 558	68 877	5 119	56 922
Other potassic fertilisers	tonnes	491	1 058	338	374	425
Rare earths						
Rare earth compounds	tonnes	8	9	6	5	5
Salt	tonnes	113 585	111 681	92 815	82 569	81 441
Silver						
Metal (c)	kilograms	* 18 600	* 7 700	* 9 400	* 8 800	* 27 500
Sulphur and pyrites						
Pyrites	tonnes	...	3	1 072	1	1
Sulphur	tonnes	1 413	1 959	2 390	1 884	2 561
Sulphur, sublimed and precipitated	tonnes	112	2	180	1 254	2 062
Talc	tonnes	2 101	2 006	1 971	1 105	2 099
Tin						
Unwrought (a)	tonnes	421	137	127	114	85
Titanium						
Titanium minerals	tonnes	1 809	2 093	2 171	1 513	2 095
Metal	tonnes	486	612	453	707	771
Oxides	tonnes	9 794	11 132	9 127	7 151	8 733
Tungsten						
Metal	tonnes	7	59	1 122	22	79
Zinc						
Ores and concentrates	tonnes	137 878	173 536	161 527	12	3
Unwrought (a)	tonnes	23 732	13 135	7 394	10 523	16 664
Zirconium						
Concentrates	tonnes	766	303	437	190	230
Metal	tonnes	32	16	136	301	35

Note(s)

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

Slovakia

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	7 522 034	6 470 725	7 517 655	6 919 826	6 931 873
Crushed rock	tonnes	14 088 600	13 338 000	16 345 800	15 233 400	14 909 400
Primary aluminium	tonnes	158 289	160 461	162 995	149 604	163 000
Asbestos	tonnes	1 000	400	200	—	—
Barytes	tonnes	57 000	58 000	20 000	30 000	17 000
Bentonite and fuller's earth						
Bentonite	tonnes	136 000	149 000	145 000	109 000	153 000
Cement						
Cement, finished	tonnes	3 592 509	3 718 410	4 157 356	3 011 460	2 887 749
Coal						
Lignite	tonnes	6 000	20 000	87 000	155 000	176 000
Brown coal	tonnes	2 016 000	1 839 000	2 075 000	2 221 000	2 026 000
Feldspar	tonnes	3 000	—	10 000	13 000	—
Gold, mine	kilograms (metal content)	84	92	198	346	534
Gypsum (a)	tonnes	126 200	151 000	152 000	131 000	87 000
Iron ore	tonnes	583 000	570 000	392 000	—	—
Pig iron	tonnes	4 145 000	4 012 000	3 529 000	3 019 000	3 649 000
Crude steel	tonnes	5 093 000	5 082 000	4 489 000	3 747 000	4 580 000
Ferro-alloys						
Ferro-chrome	tonnes	19	—	—	—	—
Ferro-silico-manganese	tonnes	59 128	71 587	59 940	32 000	...
Ferro-silicon	tonnes	16 155	8 583	10 844	4 600	...
Other ferro-alloys	tonnes	65 498	74 065	61 194	22 250	...
Kaolin	tonnes	58 000	46 000	44 000	10 000	—
Magnesite	tonnes	941 100	957 000	806 500	477 600	650 100
Perlite	tonnes	10 560	20 000	25 000	25 000	23 000
Crude petroleum	tonnes	30 520	23 000	21 000	19 000	16 000
Natural gas	million m ³	135	195	111	114	100
Salt	tonnes	122 500	117 000	109 510	41 000	—
Silver, mine	kilograms (metal content)	74	50	198	201	320
Talc	tonnes	—	—	—	—	7 000

Note(s)

(1) Slovakia is also believed to produce sulphur

(a) Including anhydrite

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates (a)	tonnes	* 715 000	* 744 000	* 1 388 000	* 768 000	* 598 000
Aluminium and bauxite						
Unwrought	tonnes	66 893	61 319	44 845	77 013	44 989
Unwrought alloys	tonnes	93 141	118 286	129 771	110 484	111 769
Scrap	tonnes	9 876	10 421	10 109	9 441	10 260
Barytes	tonnes	13 843	9 174	685	6 309	641
Bentonite and fuller's earth						
Bentonite	tonnes	105 273	89 517	79 936	65 429	32 981
Cement						
Cement clinkers	tonnes	27 092	30 800	53 871	127 016	69 366
Portland cement	tonnes	1 372 554	1 346 692	1 622 292	1 344 258	1 396 241
Other cement	tonnes	35 596	85 987	144 311	217 328	21 660
Chromium						
Metal	tonnes	1 735	1 116	1 299	424	777
Coal						
Hard coal (b)	tonnes	33 665	26 600	30 131	122 287	8 640

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Unwrought	tonnes	27 178	34 232	35 141	29 972	35 007
Scrap	tonnes	18 821	23 502	21 144	15 114	15 550
Gold						
Metal	kilograms	702	4 178	2 914	3 196	2 926
Waste and scrap	kilograms	1 000	1 600	800	1 200	7 300
Iron ore	tonnes	141 448	4 353	53 434	5 923	62 568
Iron, steel and ferro-alloys						
Pig iron	tonnes	50 497	10 588	20 676	29 779	70 588
Ferro-manganese	tonnes	59 475	49 723	48 747	19 204	14 032
Ferro-silico-manganese	tonnes	73 050	62 898	55 873	37 792	35 764
Ferro-silicon	tonnes	25 240	16 437	21 352	15 823	19 656
Other ferro-alloys	tonnes	8 033	13 604	15 436	5 277	13 407
Ingots, blooms, billets	tonnes	654 743	508 620	241 811	255 917	631 135
Scrap	tonnes	524 597	404 401	525 777	318 290	556 952
Kaolin	tonnes	10 946	12 546	593	1 425	4 493
Magnesite and magnesia						
Magnesite (a)	tonnes	* 3 000	* 6 000	* 9 300	* 7 400	* 8 400
Magnesia	tonnes	394 826	444 539	409 295	261 876	336 786
Nickel						
Scrap	tonnes	134	116	1 061	140	295
Unwrought	tonnes	128	72	259	201	68
Crude petroleum	tonnes	27 686	22 172	18 159	14 932	13 048
Natural gas	tonnes	221 885	124 820	112 328	334 205	1 153 269
Phosphate rock	tonnes	2 603	—	...	48	11
Potash						
Potassic fertilisers	tonnes	...	1 407	434	74	51
Salt	tonnes	51 566	51 517	62 133	4 606	45 056
Silver						
Metal	kilograms	3 430	35 036	6 061	2 700	39 100
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	63 019	75 817	71 373	72 613	72 910
Talc	tonnes	1 011	1 494	1 994	45	47
Tin						
Unwrought	tonnes	(c) 251	20	107	(c) 9	(c) 8
Titanium						
Metal	tonnes	28	5	76	3	49
Tungsten						
Metal	tonnes	66	2	9	4	4
Zinc						
Unwrought	tonnes	5 232	16 356	14 600	12 871	7 903
Unwrought alloys	tonnes	14 053	7 147	10 412	11 365	13 075

Note(s)

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

(b) Including anthracite

(c) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	665 844	633 400	755 496	692 609	666 380
Aluminium and bauxite						
Bauxite	tonnes	5 886	7 524	5 778	5 443	4 233
Alumina	tonnes	314 576	311 914	311 891	288 753	270 786
Unwrought (a)	tonnes	31 521	52 718	41 681	27 853	42 273
Scrap	tonnes	8 550	8 748	4 638	1 760	2 098
Antimony						
Oxide	tonnes	82	104	48	35	52
Barytes	tonnes	872	147	142	99	119
Bentonite and fuller's earth						
Bentonite	tonnes	6 916	7 145	8 987	5 890	6 416
Fuller's earth	tonnes	886	...	...	...	...
Bromine	kilograms	9 700	2 600	(b) 582	(b) 2 470	(b) 6
Cement						
Cement clinkers	tonnes	42 666	52 608	94 510	13 076	6 380
Portland cement	tonnes	98 625	123 589	172 555	284 457	256 358
Other cement	tonnes	56 418	58 035	93 031	56 060	34 733
Chromium						
Ores and concentrates	tonnes	11 252	16 819	11 969	2 533	4 546
Metal	tonnes	11	20	104	52	34
Coal						
Anthracite	tonnes	38 147	176 682	258 597	264 286	293 054
Other coal	tonnes	4 411 685	4 802 258	4 253 530	3 828 520	3 078 570
Lignite	tonnes	889 241	725 586	983 151	693 786	563 021
Briquettes	tonnes	12 150	5 813	6 733	7 877	12 799
Cobalt						
Metal	tonnes	13	37	1 020	19	7
Oxides	tonnes	...	0	0	5 327	137
Copper						
Matte and cement	tonnes	1 071	...	...	3 300	799
Unwrought	tonnes	2 084	1 557	4 120	4 685	6 153
Scrap	tonnes	17 973	17 476	17 350	29 141	40 347
Diamond						
Gem, cut	carats	£37 000	£88 000	£2 924 000	£1 993 000	£2 530 000
Dust	carats	50 000	...	...	165 000	18 560 000
Diatomite	tonnes	698	549	577	901	784
Feldspar	tonnes	30 726	27 548	24 788	16 352	5 886
Fluorspar	tonnes	1 543	908	1 143	644	954
Gold						
Metal	kilograms	13 901	92 400	74 800	208 400	220 470
Graphite	tonnes	1 382	2 246	2 981	962	1 899
Gypsum						
Crude	tonnes	85 408	88 083	111 188	53 104	74 512
Calcined	tonnes	26 794	29 894	47 044	52 703	16 732
Iron ore	tonnes	6 406 019	5 853 880	4 802 516	4 499 385	5 796 813
Iron, steel and ferro-alloys						
Pig iron	tonnes	59 145	59 778	70 034	19 468	33 258
Sponge and powder	tonnes	25 064	52 697	* 143 700	4 090	13 227
Ferro-chrome	tonnes	2 597	9 818	7 539	2 635	6 829
Ferro-silico-magnesium	tonnes	2 801	3 289	3 507	640	1 626
Ferro-manganese	tonnes	23 409	20 410	19 503	16 912	13 202
Ferro-silico-manganese	tonnes	3 016	977	2 776	2 720	1 776
Ferro-niobium	tonnes	849	906	897	154	315
Ferro-silicon	tonnes	19 395	26 142	23 747	14 970	15 250
Ferro-titanium and ferro-silico-titanium	tonnes	283	355	367	315	535
Other ferro-alloys	tonnes	2 132	230	1 534	792	485
Silicon metal	tonnes	5 416	6 004	6 391	4 460	6 309
Ingots, blooms, billets	tonnes	17 086	20 708	18 953	54 781	10 020
Scrap	tonnes	243 822	257 815	217 558	164 985	224 868
Kaolin	tonnes	100 551	87 956	95 911	58 509	62 748
Magnesite and magnesia						
Magnesite	tonnes	3 947	3 520	3 401	2 906	3 916
Magnesia	tonnes	27 280	36 768	40 675	12 731	28 639
Manganese						
Ores and concentrates	tonnes	308 417	253 048	211 653	74 712	146 434
Metal	tonnes	445	313	350	395	442

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Mercury	kilograms	3 100	3 400	5 200	4 500	4 700
Molybdenum						
Metal	tonnes	3	5	24	106	1
Nickel						
Unwrought (a)	tonnes	221	139	190	120	96
Crude petroleum	tonnes	5 878 819	6 141 203	5 778 688	5 787 725	5 555 541
Natural gas	tonnes	5 157 793	4 249 360	4 640 012	4 820 301	5 765 254
Platinum metals						
Platinum	kilograms	23 016	348 975	1 573 351	1 533 869	1 625 761
Palladium	kilograms	113	35	58	1 191	2 702
Potash						
Chloride	tonnes	31 791	29 828	29 496	4 597	22 561
Other potassic fertilisers	tonnes	1 752	2 601	2 366	689	2 913
Rare earths						
Rare earth compounds	tonnes	8	8	5	8	8
Salt	tonnes	299 087	182 234	189 268	168 211	266 329
Sillimanite minerals	tonnes	2 069	3 299	1 919	1 812	2 456
Silver						
Metal	kilograms	6 400	12 200	8 200	9 000	55 300
Sulphur and pyrites						
Sulphur	tonnes	3 454	4 339	4 553	2 462	3 855
Sulphur, sublimed and precipitated	tonnes	266	753	1 518	1 046	864
Talc	tonnes	4 174	1 344	2 448	1 030	719
Tin						
Unwrought (a)	tonnes	2 246	2 260	2 276	2 059	2 087
Titanium						
Titanium minerals	tonnes	12 648	17 242	...	0	0
Metal	tonnes	179	250	329	130	956
Oxides	tonnes	2 742	2 193	2 389	2 949	2 109
Tungsten						
Metal	tonnes	17	17	55	43	366
Zinc						
Unwrought (a)	tonnes	45 143	44 959	41 003	28 863	37 266

Note(s)

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

Slovenia

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	17 873 000	21 548 000	19 171 000	15 720 000	2 658 027
Crushed rock	tonnes	14 213 319	14 279 253	14 982 560	13 609 728	12 072 532
Primary aluminium	tonnes	118 100	111 016	83 300	35 148	40 177
Bentonite and fuller's earth						
Bentonite	tonnes	130	130	160	104	135
Cement						
Cement, finished	tonnes	1 269 000	* 1 300 000	* 1 300 000	* 1 000 000	* 1 000 000
Coal						
Lignite	tonnes	3 932 842	4 037 766	4 008 440	3 921 746	4 010 930
Brown coal	tonnes	587 912	483 417	488 828	510 769	419 466
Crude steel	tonnes	628 000	638 000	642 000	430 000	606 000
Ferro-alloys						
Ferro-silicon	tonnes	12 550	* 6 000	* —	* —	* —
Lead, refined	tonnes	15 000	15 000	15 000	14 000	14 000
Crude petroleum	tonnes	284	344	174	138	233
Natural gas	million m ³	4	3	3	3	7
Salt	tonnes	1 624	3 029	535	2 924	59

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	324 830	437 208	402 033	451 012	488 256
Aluminium and bauxite						
Bauxite	tonnes	2 650	8 013	450	2 537	6 665
Unwrought alloys	tonnes	133 005	123 041	88 038	61 800	78 619
Alumina	tonnes	241 631	243 062	258 238	242 215	239 729
Scrap	tonnes	27 584	30 132	26 863	23 382	33 972
Bentonite and fuller's earth						
Bentonite	tonnes	107	196	142	284	205
Cement						
Cement clinkers	tonnes	21 440	2	1	—	42 475
Portland cement	tonnes	73 187	55 803	77 656	96 736	168 056
Other cement	tonnes	115 104	156 183	227 400	97 258	4 731
Coal						
Lignite	tonnes	29 794	2 150	377	4 615	...
Cobalt						
Metal	tonnes	16	31	24	50	65
Copper						
Unwrought	tonnes	244	163	244	1 376	7 042
Scrap	tonnes	15 922	17 810	15 606	17 991	29 276
Gold						
Metal	kilograms	100	1 300	3 000	129	168
Waste and scrap	kilograms	3 700	—	—	200	5 450
Gypsum						
Crude and calcined	tonnes	9 502	36 039	8 575	6 575	205
Iron, steel and ferro-alloys						
Pig iron	tonnes	3 511	14 942	24 639	4 412	10 507
Ferro-silicon	tonnes	26 859	15 277	20 826	6 628	7 280
Other ferro-alloys	tonnes	22 497	24 205	12 516	9 989	17 386
Silicon metal	tonnes	3 006	1 875	1 149	3 049	5 568
Ingots, blooms, billets	tonnes	12 273	31 849	21 006	12 296	17 320
Scrap	tonnes	222 403	245 869	199 016	284 958	343 716
Lead						
Unwrought	tonnes	6 524	8 860	6 960	6 891	8 090
Scrap	tonnes	843	1 415	391	325	566

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Lithium						
Carbonate	tonnes	96	110	122	128	88
Magnesite and magnesia						
Magnesia	tonnes	206	257	421	344	334
Nickel						
Unwrought (a)	tonnes	118	232	268	117	1 544
Natural gas	tonnes	54 579	34 212	24 368	3	—
Phosphate rock	tonnes	140 281	109 350	164 848	56 973	153 182
Platinum metals						
Platinum and platinum metals	kilograms	248	84	110	400	—
Rare earths						
Cerium compounds	tonnes	...	2	1	1	2
Salt	tonnes	20 702	18 280	20 590	15 671	21 711
Silver						
Metal	kilograms	3 100	5 200	8 800	1 600	3 100
Titanium						
Metal	tonnes	36	37	40	23	171
Oxides	tonnes	50 755	55 867	55 110	57 866	61 637
Zinc						
Unwrought (a)	tonnes	1 553	1 557	1 937	1 469	2 725
Scrap	tonnes	846	873	975	517	933
Zirconium						
Concentrates	tonnes	1 186	509	202	22	25

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	863 881	3 113 823	1 424 240	1 165 083	771 814
Aluminium and bauxite						
Bauxite	tonnes	51 064	63 229	40 006	13 966	41 846
Alumina	tonnes	480 454	466 163	438 579	302 520	328 453
Alumina hydrate	tonnes	24 102	28 628	27 121	20 629	27 252
Unwrought	tonnes	48 337	65 589	67 405	62 162	87 848
Unwrought alloys	tonnes	60 484	58 215	50 389	34 530	65 950
Scrap	tonnes	50 865	52 338	51 319	37 677	51 159
Antimony						
Metal	tonnes	98	110	71	50	36
Arsenic						
Metallic arsenic	tonnes	12	11	—	3	...
Barytes	tonnes	1 044	585	596	530	457
Bentonite and fuller's earth						
Bentonite	tonnes	4 981	4 048	3 976	4 421	4 191
Bismuth						
Metal	tonnes	66	90	60	24	49
Cement						
Cement clinkers	tonnes	11 970	145 638	5 783	60	129
Portland cement	tonnes	249 749	328 312	326 096	297 617	328 563
Other cement	tonnes	6 917	17 037	4 618	17 414	17 328
Chromium						
Ores and concentrates	tonnes	1 414	986	999	1 005	1 912
Metal	tonnes	97	85	313	143	104
Coal						
Hard coal (a)	tonnes	47 221	83 100	74 508	33 143	26 873
Lignite	tonnes	614 851	567 139	833 308	507 013	544 523
Briquettes	tonnes	729	233	1 267	1 540	1 654
Cobalt						
Metal	tonnes	209	96	93	149	141
Copper						
Unwrought	tonnes	3 150	2 809	2 649	2 826	8 369
Scrap	tonnes	9 000	10 431	9 687	11 452	22 407

Slovenia

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Diamond						
Dust	carats	1 287 165	1 670 284	1 395 416	723 391	1 656 306
Diatomite	tonnes	738	686	644	550	718
Feldspar	tonnes	5 813	6 877	6 576	8 899	14 954
Fluorspar	tonnes	1 184	1 017	1 326	1 064	1 754
Gold						
Metal	kilograms	445	600	1 700	400	1 100
Waste and scrap	kilograms	1 533	100	9	1 210	5 400
Graphite	tonnes	161	108	141	89	295
Gypsum						
Crude	tonnes	31 312	38 588	24 660	5 565	942
Calcined	tonnes	8 167	7 936	8 622	9 432	7 615
Iron, steel and ferro-alloys						
Pig iron	tonnes	70 254	102 973	68 153	24 031	29 120
Sponge and powder	tonnes	1 067	1 420	1 311	1 053	1 225
Ferro-chrome	tonnes	26 992	23 645	25 665	15 951	26 575
Ferro-silico-magnesium	tonnes	7 215	2 052	3 418	1 682	2 388
Ferro-manganese	tonnes	4 467	6 061	5 663	4 157	6 175
Ferro-silico-manganese	tonnes	3 691	4 789	3 373	3 467	8 810
Ferro-molybdenum	tonnes	539	569	540	410	717
Ferro-nickel	tonnes	2 457	2 364	538	...	...
Ferro-silicon	tonnes	17 937	14 017	24 651	11 335	13 114
Other ferro-alloys	tonnes	2 812	2 862	1 984	899	1 687
Silicon metal	tonnes	9 945	7 654	6 536	4 929	7 874
Ingots, blooms, billets	tonnes	3 444	11 479	12 930	1 568	8 191
Scrap	tonnes	434 330	363 362	367 968	281 950	495 432
Kaolin	tonnes	24 389	28 363	25 682	20 776	27 287
Lead						
Unwrought	tonnes	8 897	12 761	14 103	13 036	16 025
Scrap	tonnes	2 946	5 191	1 556	1 985	3 812
Lithium						
Oxides	tonnes	115	144	186	139	95
Magnesite and magnesia	tonnes	8 478	8 117	8 272	4 346	7 279
Manganese						
Ores and concentrates	tonnes	4	187	10	9	9
Metal	tonnes	435	388	438	264	433
Molybdenum						
Ores and concentrates	tonnes	700	876	690	292	561
Nickel						
Unwrought (b)	tonnes	874	967	2 686	2 020	2 967
Natural gas	tonnes	811 065	807 877	750 581	748 930	828 674
Phosphate rock	tonnes	140 455	109 768	164 872	56 969	153 160
Platinum metals						
Platinum and platinum metals	kilograms	449	177	177	132	200
Rare earths						
Metals	tonnes	96	139	88	55	98
Rare earth compounds	tonnes	27	4	3	2	3
Salt	tonnes	232 017	148 352	190 017	239 191	317 999
Silver						
Metal	kilograms	19 700	27 800	45 000	17 800	24 100
Sulphur and pyrites						
Pyrites	tonnes	463	612	683	353	645
Sulphur	tonnes	58 159	53 434	56 381	53 615	57 411
Sulphur, sublimed and precipitated	tonnes	135	1	7	1	1
Talc	tonnes	5 297	5 301	12 860	13 756	10 793
Titanium						
Titanium minerals	tonnes	22 825	14 903	34 930	32 789	25 081
Metal	tonnes	392	348	257	233	400
Oxides	tonnes	3 153	3 500	3 296	2 889	2 917
Titanium slag	tonnes	64 246	53 245	65 180	66 818	...
Vanadium						
Metal	tonnes	26	...	...	...	...

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Zinc						
Unwrought	tonnes	17 571	16 696	14 881	16 766	15 314
Unwrought alloys	tonnes	11 864	11 711	8 938	6 180	5 850
Zirconium						
Concentrates	tonnes	443	550	548	227	330

Note(s)

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

Spain

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	130 000 000	143 000 000	118 000 000	96 000 000	* 80 000 000
Crushed rock	tonnes	355 000 000	280 000 000	214 000 000	160 000 000	* 140 000 000
Alumina	tonnes (Al_2O_3 content)	* 1 400 000	1 300 000	1 300 000	* 1 300 000	* 1 300 000
Primary aluminium	tonnes	367 400	405 100	405 800	334 600	335 000
Barytes	tonnes	45 001	26 770	11 100	5 212	2 050
Bentonite and fuller's earth						
Bentonite	tonnes	154 746	147 253	154 534	147 090	157 001
Attapulgite	tonnes	20 933	24 615	27 348	21 110	27 841
Sepiolite	tonnes	806 345	717 728	737 659	573 937	557 862
Bromine	kilograms	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Cement						
Cement, clinker (a)	tonnes	540 482	579 236	2 011 830	2 961 500	3 568 520
Cement, finished	tonnes	54 032 770	54 720 445	42 088 110	29 500 000	50 000 000
Coal						
Anthracite	tonnes	3 775 504	3 485 083	3 152 550	4 306 033	3 211 659
Bituminous	tonnes	4 572 350	4 387 416	4 085 652	2 898 340	2 776 918
Sub-bituminous	tonnes	3 221 083	3 128 081	2 890 230	2 493 577	2 428 877
Lignite	tonnes	6 859 641	6 112 946	—	—	—
Copper, mine	tonnes (metal content)	8 700	6 281	7 071	17 663	54 329
Copper, refined	tonnes	299 146	308 372	319 050	329 356	347 518
Copper, smelter	tonnes	263 662	257 348	259 897	264 971	259 119
Diatomite (b)	tonnes	52 123	45 480	46 192	29 194	64 346
Feldspar	tonnes	696 912	683 134	690 256	597 496	691 894
Fluorspar	tonnes	144 845	155 197	148 736	122 533	132 341
Gold, mine	kilograms (metal content)	1 565	—	—	—	—
Gypsum	tonnes	14 596 559	14 535 422	11 955 753	8 181 315	* 6 000 000
Pig iron	tonnes	3 432 000	3 976 000	3 784 000	2 920 000	3 572 000
Crude steel	tonnes	18 391 000	18 998 000	18 640 000	14 358 000	16 343 000
Ferro-alloys						
Ferro-manganese	tonnes	* 35 000	* 35 000	* 35 000	* 35 000	* 35 000
Ferro-silico-manganese	tonnes	* 100 000	* 100 000	* 30 000	* 30 000	* 30 000
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	476 327	489 428	355 739	270 298	250 820
Lead, mine	tonnes (metal content)	—	—	—	1 000	300
Lead, refined	tonnes	129 000	128 000	145 000	138 000	163 000
Lithium minerals						
Lepidolite	tonnes	8 339	10 326	9 342	4 270	* 5 000
Magnesite	tonnes	520 646	463 850	* 440 700	* 434 000	* 460 000
Mica (d)	tonnes	4 496	5 569	4 254	* 3 655	* 6 800
Nickel, mine	tonnes (metal content)	6 398	6 630	8 136	8 029	6 296
Natural gas	million m ³	118	42	46	19	58
Crude petroleum	tonnes	143 432	142 879	127 542	106 817	11 528
Potash						
Chloride	tonnes (K_2O content)	493 189	531 739	472 952	481 455	418 778
Salt						
Rock salt	tonnes	2 809 046	2 709 545	2 909 907	2 763 081	2 650 940
Sea salt	tonnes	1 506 343	1 332 360	1 290 672	1 338 789	1 242 718
Other salt	tonnes	115 826	102 524	102 149	99 853	92 644
Silver, mine	kilograms (metal content)	2 369	—	—	2 200	20 800
Strontium minerals	tonnes	280 195	142 512	138 590	57 466	83 035
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	547 000	543 000	551 000	533 000	547 000
Recovered (f)	tonnes (sulphur content)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Talc	tonnes	83 502	78 042	59 299	47 218	51 897
Tungsten, mine	tonnes (metal content)	—	—	194	284	303

Production continued

Commodity	Units	2006	2007	2008	2009	2010
Wollastonite	tonnes	...	10 918	10 100	7 000	6 000
Zinc, mine	tonnes (metal content)	—	—	—	5 900	17 600
Slab zinc	tonnes	507 300	509 000	466 000	515 000	517 100

Note(s)

(1) Spain is also 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	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 489 305	2 042 075	1 478 362	1 060 445	1 153 923
Aluminium and bauxite						
Bauxite	tonnes	3 647	6 057	5 623	4 951	3 628
Unwrought	tonnes	8 245	15 999	39 359	19 816	26 693
Unwrought alloys	tonnes	128 262	125 008	123 577	230 539	148 884
Alumina	tonnes	511 992	539 739	671 009	612 933	299 703
Alumina hydrate	tonnes	258 854	199 679	236 855	163 303	126 398
Scrap	tonnes	41 923	34 520	109 493	46 307	66 976
Antimony						
Metal	tonnes	21	17	143	62	19
Oxide	tonnes	2 031	246	1 023	894	1 716
Barytes	tonnes	27 743	31 693	33 676	29 776	32 427
Bentonite and fuller's earth						
Bentonite	tonnes	73 767	72 278	75 287	1 021 034	66 118
Sepiolite	tonnes	465 599	474 788	460 485	418 644	...
Fuller's earth	tonnes	7 896	...	...	...	...
Bismuth						
Metal	tonnes	118	32	19	14	9
Bromine	kilograms	192 339	418 531	2 000	2 578	15 627
Cement						
Cement clinkers	tonnes	28 809	37 343	907 694	1 181 783	1 545 705
Portland cement	tonnes	1 386 652	1 358 857	1 474 428	1 411 588	2 768 457
Other cement	tonnes	43 262	46 348	63 825	74 007	87 864
Chromium						
Ores and concentrates	tonnes	1 908	1 529	1 073	1 022	600
Metal	tonnes	990	779	1 165	516	665
Coal						
Anthracite	tonnes	74 826	101 968	186 293	123 114	337 930
Other coal	tonnes	135 401	872 269	1 636 071	1 252 923	1 149 991
Briquettes	tonnes	53	...	21 735	193	599
Cobalt						
Oxides	tonnes	30	56	7	33	19
Copper						
Ores and concentrates	tonnes	5 835	905	463	110 724	221 429
Unwrought, unrefined	tonnes	45 906	37 210	41 676	38 761	33 973
Unwrought, refined	tonnes	38 205	48 288	85 899	108 716	151 204
Unwrought alloys	tonnes	10 590	12 679	12 139	12 150	15 881
Scrap	tonnes	84 570	88 429	83 820	100 498	102 236
Diamond						
Unsorted	Carats	£531 000	£346 000	£503 000	£266 000	£292 000
Gem, cut	Carats	£61 119 000	£8 478 000	£6 631 000	£5 328 000	£7 350 000
Industrial	Carats	£331 000	£208 000	£498 000	£171 000	£210 000
Dust	Carats	210 000	254 600	630 000	180 000	875 000
Diatomite	tonnes	6 118	6 399	5 306	4 678	7 382
Feldspar	tonnes	77 348	74 461	79 120	56 161	69 337
Fluorspar	tonnes	10 518	29 117	13 109	35 366	1 680

Spain

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Gold						
Metal	kilograms	3 679	23 667	6 966	31 466	282 816
Waste and scrap	kilograms	2 636	92	1 147	131 376	258 156
Graphite	tonnes	6 356	8 728	10 499	8 160	5 369
Gypsum						
Crude	tonnes	3 568 327	3 335 273	3 458 773	2 187 816	2 678 208
Calcined	tonnes	306 791	274 781	228 060	182 982	165 424
Iodine	kilograms	7 356	7 689	46 873	15 376	14 704
Iron ore (a)	tonnes	120 787	75 567	62 147	17 348	9 079
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 202	12 491	9 747	4 772	2 998
Sponge and powder	tonnes	4 030	6 404	4 763	2 566	2 658
Ferro-chrome	tonnes	1 024	2 461	4 768	367	1 025
Ferro-manganese	tonnes	91 018	71 345	65 330	29 403	52 296
Ferro-silico-manganese	tonnes	32 806	33 636	34 307	25 859	58 097
Ferro-molybdenum	tonnes	317	70	45	242	359
Ferro-silicon	tonnes	7 759	18 323	9 562	5 939	12 854
Other ferro-alloys	tonnes	493	1 170	1 285	1 178	2 191
Silicon metal	tonnes	16 566	16 175	16 008	5 571	18 463
Ingots, blooms, billets	tonnes	114 897	91 085	310 671	261 758	337 566
Scrap	tonnes	137 273	162 371	214 913	302 465	277 401
Kaolin	tonnes	213 955	199 541	155 563	156 915	167 811
Lead						
Ores and concentrates	tonnes	29	130	1 015	14 147	9 513
Unwrought	tonnes	7 830	9 242	14 771	13 434	6 630
Scrap	tonnes	6 460	7 023	6 616	3 862	6 781
Lithium						
Carbonate	tonnes	554	192	128	228	175
Magnesite and magnesia						
Magnesite	tonnes	19 635	607	725	2 167	410
Magnesia	tonnes	179 046	185 364	175 307	156 027	224 590
Manganese						
Ores and concentrates	tonnes	1 336	1 299	518	21 456	707
Metal	tonnes	5 827	5 783	4 562	3 386	1 297
Mercury	kilograms	463 954	779 110	639 203	376 885	964 922
Mica						
Unmanufactured	tonnes	3 994	2 473	1 259	563	1 339
Ground	tonnes	462	1 089	1 368	1 521	2 269
Molybdenum						
Metal	tonnes	38	3	18	68	243
Nickel						
Ores and concentrates	tonnes	95 377	65 853	127 812	102 105	93 536
Unwrought (b)	tonnes	795	767	600	573	738
Scrap	tonnes	910	227	226	875	366
Crude petroleum (c)	tonnes	* 53 000	* 2 400	* 24 000	* 400	* 164 000
Natural gas	tonnes	1 546	31 159	—	61 433	200 027
Phosphate rock	tonnes	7 259	7 840	4 754	1 565	1 888
Platinum metals						
Platinum and platinum metals	kilograms	363	434	3 104	1 672	2 347
Waste and scrap	kilograms	290	44	88 069	225 411	291 877
Potash						
Sulphate	tonnes	1 245	1 795	1 251	2 540	6 474
Chloride	tonnes	201 242	163 891	360 538	319 549	609 607
Other potassic fertilisers	tonnes	257	998	1 895	1 352	2 365
Rare earths						
Cerium compounds	tonnes	45	63	8	13	51
Other rare earth compounds	tonnes	18	2	17	5	34
Salt	tonnes	743 390	463 791	646 288	862 994	1 318 019
Silver						
Ores and concentrates	kilograms	...	1 608	—	30	377
Metal	kilograms	7 915	13 637	379 675	233 084	417 381
Sulphur and pyrites						
Sulphur	tonnes	76 771	77 220	116 213	198 585	138 168
Talc	tonnes	47 142	39 689	51 180	29 580	11 206
Tin						
Unwrought (b)	tonnes	120	98	433	427	513
Scrap	tonnes	408	460	447	2 038	376

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Titanium						
Titanium minerals	tonnes	185	232	155	25 892	2 405
Metal	tonnes	2 005	1 431	947	1 018	1 928
Oxides	tonnes	85 307	91 583	58 342	33 721	35 233
Tungsten						
Ores and concentrates	tonnes	—	0	286	457	400
Metal	tonnes	59	177	223	156	315
Zinc						
Ores and concentrates	tonnes	31 416	98 359	121 688	40 118	82 009
Unwrought	tonnes	270 233	220 002	191 897	216 633	318 527
Unwrought alloys	tonnes	87 073	66 155	92 781	62 544	91 054
Scrap	tonnes	7 946	5 295	6 210	26 675	37 362
Zirconium						
Concentrates	tonnes	9 811	11 803	14 151	13 581	28 166
Metal	tonnes	110	200	525	746	51

Note(s)

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

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	762 652	1 396 928	1 035 555	889 156	982 128
Aluminium and bauxite						
Bauxite	tonnes	3 007 043	3 547 201	3 618 306	3 509 294	3 325 099
Alumina	tonnes	56 961	53 579	50 417	22 239	31 527
Alumina hydrate	tonnes	49 725	49 451	41 614	30 522	29 317
Unwrought	tonnes	95 436	122 303	82 512	95 461	119 589
Unwrought alloys	tonnes	303 607	328 314	281 270	162 026	229 036
Scrap	tonnes	103 839	123 074	110 745	63 517	111 942
Antimony						
Ores and concentrates	tonnes	175	164	154	55	103
Metal	tonnes	1 596	1 676	1 987	1 478	2 642
Oxide	tonnes	984	1 146	899	493	516
Arsenic						
Metallic arsenic	tonnes	143	116	192	48	96
Asbestos						
Unmanufactured	tonnes	20	50	21	—	—
Barytes	tonnes	50 743	65 569	71 025	30 503	106 611
Bentonite and fuller's earth						
Bentonite	tonnes	82 645	104 057	103 602	72 993	108 066
Fuller's earth	tonnes	159	...	...	...	...
Bismuth						
Metal	tonnes	297	190	212	52	141
Bromine	kilograms	82 351	77 578	169 159	75 099	222 746
Cadmium						
Metal	tonnes	19	0	21	118	153
Cement						
Cement clinkers	tonnes	9 108 499	10 894 888	5 496 563	2 079 944	1 342 279
Portland cement	tonnes	2 771 668	2 929 208	1 729 088	694 757	637 322
Other cement	tonnes	40 164	74 401	58 007	73 362	14 516
Chromium						
Ores and concentrates	tonnes	5 906	6 437	6 721	4 031	5 579
Metal	tonnes	1 552	1 393	1 219	1 192	1 878
Coal						
Anthracite	tonnes	2 508 261	1 019 341	957 293	767 027	846 015
Other coal	tonnes	21 196 872	23 420 766	20 010 533	15 967 793	10 983 379
Cobalt						
Metal	tonnes	180	121	131	135	144
Oxides	tonnes	1 254	1 187	1 038	3 294	1 543

Spain

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Ores and concentrates	tonnes	1 100 338	1 001 284	1 122 093	1 184 321	1 229 148
Unwrought, unrefined	tonnes	2 631	1 032	3 733	3 133	518
Unwrought, refined	tonnes	62 982	56 237	79 125	80 898	73 904
Unwrought alloys	tonnes	5 898	5 417	4 352	3 473	3 947
Scrap	tonnes	89 252	56 754	65 765	68 166	82 931
Diamond						
Unsorted	carats	£4 616 000	£3 667 000	£1 959 000	£1 591 000	£1 814 000
Gem, cut	carats	£47 084 000	£57 921 000	£40 012 000	£30 290 000	£26 488 000
Industrial	carats	£2 701 000	£1 396 000	£1 485 000	£917 000	£275 000
Dust	carats	7 000 000	67 062 395	42 938 192	30 861 760	27 500 320
Diatomite	tonnes	7 281	9 447	8 861	9 600	8 191
Feldspar	tonnes	1 422 514	1 407 350	1 410 760	664 830	856 406
Fluorspar	tonnes	28 908	29 560	32 016	17 148	12 008
Gold						
Metal	kilograms	15 072	6 641	* 72 000	68 562	44 542
Waste and scrap	kilograms	233	2 352	252	109	2 780
Graphite	tonnes	10 143	15 582	24 284	15 669	34 268
Gypsum						
Crude	tonnes	59 656	53 028	43 171	25 963	20 776
Calcined	tonnes	20 440	14 129	33 825	7 349	6 015
Iodine	kilograms	790 641	582 029	541 706	512 821	342 914
Iron ore (a)	tonnes	5 836 809	6 117 047	6 479 890	4 237 845	5 874 304
Iron, steel and ferro-alloys						
Pig iron	tonnes	793 050	652 786	688 421	380 731	442 656
Sponge and powder	tonnes	641 804	611 893	621 627	295 665	636 496
Ferro-chrome	tonnes	253 172	1 123 216	203 518	113 275	164 125
Ferro-silico-magnesium	tonnes	2 891	7 289	9 890	5 818	7 705
Ferro-manganese	tonnes	14 406	24 599	17 126	13 357	19 930
Ferro-silico-manganese	tonnes	42 326	48 205	74 962	50 683	39 895
Ferro-molybdenum	tonnes	10 473	5 863	3 777	3 756	6 446
Ferro-nickel	tonnes	92 147	75 625	68 355	43 936	47 389
Ferro-niobium	tonnes	515	8 283	685	553	983
Ferro-phosphorus	tonnes	1 771	2 554	1 488	193	1 425
Ferro-silicon	tonnes	52 215	71 487	46 445	27 140	27 581
Ferro-titanium and ferro-silico-titanium	tonnes	796	1 276	1 006	611	1 203
Ferro-vanadium	tonnes	515	1 189	1 122	809	1 088
Other ferro-alloys	tonnes	4 586	82	4 378	360	1 909
Silicon metal	tonnes	2 837	3 640	8 856	9 523	8 446
Ingots, blooms, billets	tonnes	1 601 769	1 733 247	1 587 605	1 007 820	1 269 577
Scrap	tonnes	7 437 224	6 316 516	7 408 237	4 674 099	5 708 900
Kaolin	tonnes	1 506 142	1 571 143	1 470 440	757 859	1 061 732
Lead						
Ores and concentrates	tonnes	2 299	8 188	7 107	3 199	10 946
Unwrought	tonnes	147 423	157 485	116 492	121 522	110 217
Scrap	tonnes	30 625	42 629	35 506	35 703	43 432
Lithium						
Oxides	tonnes	573	600	501	521	1 007
Carbonate	tonnes	828	1 811	3 908	2 825	3 239
Magnesite and magnesia						
Magnesite	tonnes	3 937	4 092	2 839	10 029	3 926
Magnesia	tonnes	88 898	117 867	143 849	42 980	94 840
Manganese						
Ores and concentrates	tonnes	393 476	349 131	640 677	54 606	407 450
Metal	tonnes	9 165	9 563	10 033	3 994	7 510
Mercury	kilograms	628 737	906 297	337 117	467 614	335 852
Mica	tonnes	1 484	1 871	952	1 467	1 183
Molybdenum						
Ores and concentrates	tonnes	4 584	4 622	3 787	1 724	2 585
Metal	tonnes	163	113	189	236	239
Nickel						
Unwrought	tonnes	28 171	21 202	22 668	12 290	16 468
Unwrought alloys	tonnes	1 174	1 426	1 547	821	1 125
Oxides	tonnes	127	94	151	50	329
Crude petroleum	tonnes	59 203 359	57 773 847	59 444 410	52 331 324	52 714 224
Natural gas	tonnes	26 548 202	27 048 984	32 044 466	28 024 572	27 795 263
Phosphate rock	tonnes	1 556 734	1 653 874	1 611 494	438 755	1 017 820

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Platinum metals						
Platinum and platinum metals (b)	kilograms	* 5 600	* 4 500	* 3 900	* 3 000	* 3 500
Waste and scrap	kilograms	526	4 111	8 947	29 448	29 183
Potash						
Sulphate	tonnes	10 412	5 547	40 911	21 022	40 507
Chloride	tonnes	224 320	199 403	194 656	71 444	211 595
Other potassic fertilisers	tonnes	86	25	3 548	3 721	1 607
Rare earths						
Cerium compounds	tonnes	572	580	444	443	543
Other rare earth compounds	tonnes	260	255	270	140	216
Metals	tonnes	84	95	274	108	421
Ferro-cerium and other pyrophoric alloys	tonnes	29	40	15	19	41
Salt	tonnes	37 632	33 691	97 348	81 729	85 807
Sillimanite minerals	tonnes	22 102	27 792	34 909	21 648	32 545
Silver						
Ores and concentrates	kilograms	56 421	58 344	75 633	66 088	11 317
Metal	kilograms	134 673	126 668	1 547 747	754 262	1 513 257
Sulphur and pyrites						
Pyrites	tonnes	1 478	2 585	1 903	958	1 160
Sulphur	tonnes	133 552	152 566	153 575	24 015	68 214
Sulphur, sublimed and precipitated	tonnes	296	265	372	187	229
Talc	tonnes	87 578	96 298	85 942	81 043	82 425
Tantalum and niobium						
Tantalum	tonnes	10	112	—	3	1
Tin						
Unwrought	tonnes	7 716	7 093	7 313	5 457	6 410
Unwrought alloys	tonnes	220	167	261	243	172
Scrap	tonnes	1 576	185	376	441	2 410
Titanium						
Ilmenite	tonnes	159 090	121 898	119 467	26 512	...
Other titanium minerals	tonnes	1 807	22 037	9 133	522	(c) 111 298
Metal	tonnes	5 782	3 450	3 131	1 735	2 627
Oxides	tonnes	112 778	123 132	138 275	93 267	91 822
Titanium slag	tonnes	8	2 164	10 004	...	...
Tungsten						
Metal	tonnes	556	914	731	681	426
Vanadium						
Ores and concentrates	tonnes	29	48	9	22	...
Pentoxide	tonnes	224	45	43	50	115
Zinc						
Ores and concentrates	tonnes	1 188 067	1 257 304	1 114 634	909 078	1 003 388
Unwrought	tonnes	7 577	21 634	26 779	16 091	7 583
Unwrought alloys	tonnes	18 933	17 411	15 000	9 230	15 627
Scrap	tonnes	4 996	6 601	7 396	3 127	10 935
Zirconium						
Concentrates	tonnes	149 710	138 442	152 604	95 103	149 442
Metal	tonnes	55	65	136	83	132

Note(s)

- (a) Including burnt pyrites
 (b) BGS estimates, based on known exports from certain countries
 (c) Includes Ilmenite

Sweden

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	21 488 963	20 036 785	18 804 343	14 400 000	* 14 400 000
Crushed rock	tonnes	70 517 845	64 047 058	66 757 671	57 500 000	* 57 500 000
Primary aluminium	tonnes	101 668	99 842	81 913	69 708	93 000
Cement						
Cement, clinker	tonnes	2 660 045	1 712 626	1 881 054	1 702 019	* 1 750 000
Cement, finished	tonnes	2 952 000	2 950 000	* 2 950 000	* 2 900 000	* 2 900 000
Copper, mine	tonnes (metal content)	86 746	62 905	57 688	55 414	76 514
Copper, refined	tonnes	229 241	213 894	227 774	205 759	190 497
Copper, smelter	tonnes	129 951	148 835	136 409	125 398	135 125
Feldspar	tonnes	24 000	25 000	22 000	18 000	22 000
Gold, mine	kilograms (metal content)	6 848	5 159	4 953	5 542	6 285
Iron ore	tonnes	23 302 000	24 714 000	23 888 000	17 677 000	25 292 000
Pig iron	tonnes	3 701 000	3 947 000	3 708 000	1 966 000	3 447 000
Crude steel	tonnes	5 466 100	5 672 900	5 197 600	2 803 700	4 845 600
Ferro-alloys						
Ferro-chrome	tonnes	136 400	124 400	118 700	31 100	64 400
Ferro-silicon	tonnes	4 600	4 300	—	—	—
Lead, mine	tonnes (metal content)	55 644	63 224	63 489	69 293	67 697
Lead, refined	tonnes	70 239	69 730	56 812	51 574	59 179
Selenium metal	tonnes	135	126	139	129	* 130
Silver, mine	kilograms (metal content)	292 255	323 171	293 068	288 590	302 145
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	180 000	177 000	199 600	186 100	179 833
Recovered (b)	tonnes (sulphur content)	68 391	66 569	84 456	83 646	83 947
Talc	tonnes	6 000	7 000	4 000	4 000	4 000
Zinc, mine	tonnes (metal content)	210 029	214 576	187 987	192 502	198 687

Note(s)

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

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 333 174	2 307 614	3 049 601	1 867 320	2 248 515
Aluminium and bauxite						
Unwrought	tonnes	910	735	6 307	2 143	195
Unwrought alloys	tonnes	112 575	89 591	89 190	145 554	190 394
Alumina	tonnes	14 481	14 278	13 919	14 464	19 037
Scrap	tonnes	67 879	107 946	106 581	89 940	88 070
Antimony						
Metal	tonnes	2	1	15	489	4
Bentonite and fuller's earth						
Bentonite	tonnes	9 539	12 240	11 640	5 588	3 457
Bismuth						
Metal	tonnes	...	...	1	106	11
Cadmium						
Oxide	tonnes	...	322	448	305	360
Cement						
Portland cement	tonnes	1 208 231	845 235	723 793	482 223	467 559
Other cement	tonnes	12 144	15 237	14 082	7 166	5 819
Chromium						
Metal	tonnes	105	102	225	100	191
Cobalt						
Metal	tonnes	110	152	67	285	220

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Unwrought, refined	tonnes	86 726	65 926	70 047	77 739	71 332
Unwrought alloys	tonnes	6 443	8 837	5 610	3 181	8 563
Scrap	tonnes	45 456	54 673	57 245	55 603	43 311
Diatomite	tonnes	568	3 497	749	693	829
Feldspar	tonnes	15 880	14 383	10 670	7 646	11 251
Fluorspar	tonnes	7 450	7 764	11 538	6 745	8 101
Gold						
Metal	kilograms	19 000	17 800	19 400	14 500	14 700
Waste and scrap	kilograms	32 000	65 700	29 400	60 900	5 100
Graphite	tonnes	230	273	252	159	254
Gypsum						
Crude and calcined	tonnes	9 954	12 694	11 525	9 358	8 155
Iodine	kilograms	40	48	122	300	700
Iron ore	tonnes	18 409 475	19 033 842	17 617 162	16 104 129	20 726 152
Iron, steel and ferro-alloys						
Pig iron	tonnes	145 733	152 911	62 588	141 261	146 027
Sponge and powder	tonnes	15 238	26 666	19 844	6 558	12 335
Ferro-chrome	tonnes	1 973	2 247	3 534	3 368	51 010
Ferro-silico-magnesium	tonnes	739	1 260	...	50	17
Ferro-manganese and ferro-silico-manganese	tonnes	2 584	3 859	3 620	2 423	3 517
Ferro-molybdenum	tonnes	157	304	301	193	340
Ferro-phosphorus	tonnes	706	1 128	1 370	364	582
Ferro-silicon	tonnes	1 968	2 892	2 616	3 004	6 905
Ferro-vanadium	tonnes	61	135	112	250	50
Other ferro-alloys	tonnes	1 289	216	895	280	481
Silicon metal	tonnes	2 321	1 474	2 458	968	2 337
Ingots, blooms, billets	tonnes	116 880	134 568	102 086	58 631	261 273
Scrap	tonnes	847 179	1 069 335	1 449 311	1 439 126	1 352 399
Kaolin	tonnes	15 735	18 229	30 495	31 122	23 103
Lead						
Ores and concentrates	tonnes	50 854	56 581	61 439	72 220	111 153
Unwrought	tonnes	76 777	65 733	53 715	46 795	55 501
Scrap	tonnes	703	734	816	1 044	1 445
Magnesite and magnesia						
Magnesia	tonnes	2 277	1 593	235	380	303
Nickel						
Scrap	tonnes	5 743	5 344	1 513	1 376	1 022
Unwrought (a)	tonnes	516	390	288	522	497
Oxides	tonnes	349	457	511	363	534
Phosphate rock	tonnes	969	1 623	4 897	1 228	125
Platinum metals						
Platinum and platinum metals	kilograms	£1 514 000	£900 000	£851 000	£177 000	£429 000
Waste and scrap	kilograms	280 000	242 500	575 300	40 400	69 000
Potash						
Sulphate	tonnes	10 191	84 414	53 883	59 252	93 796
Salt	tonnes	9 357	12 601	10 444	10 025	12 742
Silver						
Ores and concentrates	kilograms	...	59 400	...	—	...
Metal	kilograms	368 000	364 500	521 200	476 300	412 900
Sulphur and pyrites						
Sulphur	tonnes	12 071	5 168	5 525	3 018	2 768
Sulphur, sublimed and precipitated	tonnes	5 719	10 959	13 128	12 242	11 564
Talc	tonnes	7 556	9 415	9 227	8 032	9 014
Tin						
Unwrought (a)	tonnes	250	201	213	122	163
Scrap	tonnes	43	161	96	63	27
Titanium						
Metal	tonnes	1 461	2 667	1 002	717	925
Oxides	tonnes	20 409	17 047	19 992	15 921	20 567
Tungsten						
Ores and concentrates	tonnes	—	3 192	75	96	—
Metal	tonnes	296	234	328	431	289
Carbide	tonnes	491	446	436	253	401

Sweden

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Zinc						
Ores and concentrates	tonnes	402 219	405 682	389 473	395 616	362 085
Unwrought (a)	tonnes	1 143	103	538	302	832
Scrap	tonnes	29 015	2 777	2 898	1 840	2 900

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	1 135 048	1 068 840	864 988	355 022	533 148
Aluminium and bauxite						
Bauxite	tonnes	2 846	30 099	18 761	10 755	6 660
Alumina	tonnes	201 496	43 101	161 638	109 806	211 393
Alumina hydrate	tonnes	56 535	94 218	95 834	81 026	95 073
Unwrought	tonnes	7 959	46 431	47 534	39 248	35 506
Unwrought alloys	tonnes	135 270	159 628	144 343	124 277	188 198
Scrap	tonnes	32 198	36 838	40 125	30 093	48 508
Antimony						
Metal	tonnes	337	546	166	58	17
Oxide	tonnes	296	319	293	203	219
Arsenic						
Metallic arsenic	tonnes	...	12	6	6	7
Barytes	tonnes	4 876	6 504	6 371	3 346	4 406
Bentonite and fuller's earth						
Bentonite	tonnes	125 491	184 313	178 308	120 079	200 422
Bismuth						
Metal	tonnes	8	5	12	6	12
Bromine	kilograms	9 000	2 800	31 700	3 100	4 200
Cadmium						
Metal	tonnes	388	491	851	588	825
Oxide	tonnes	102	25	83	42	107
Cement						
Cement clinkers	tonnes	13 238	29 344	37 009	10 434	36 629
Portland cement	tonnes	249 670	55 784	61 891	29 482	348 431
Other cement	tonnes	41 176	52 359	50 333	37 308	36 399
Chromium						
Ores and concentrates	tonnes	315 000	350 000	337 933	64 955	—
Metal	tonnes	1 639	2 145	12 782	4 396	4 999
Coal						
Anthracite	tonnes	28 506	25 832	36 163	20 373	48 767
Other coal	tonnes	3 003 919	3 154 331	2 811 668	1 831 397	3 236 437
Briquettes	tonnes	27 164	287	9 029	33	43
Cobalt						
Metal	tonnes	743	676	698	189	396
Copper						
Ores and concentrates	tonnes	267 753	420 050	393 295	362 803	302 514
Unwrought, unrefined	tonnes	35 496	10 495	23 539	22 072	3 100
Unwrought, refined	tonnes	41 036	31 535	21 123	23 107	46 383
Unwrought alloys	tonnes	3 944	5 867	5 239	2 040	5 181
Scrap	tonnes	54 483	81 015	91 839	96 542	108 971
Diamond						
Unsorted	carats	£143 000	£141 000	£100 000	£23 000	£125 000
Gem, cut	carats	8 573	9 465	10 938	8 709	(a)* 21 000
Industrial	carats	188 546	224 486	217 127	6 907	(a)* 58 000
Dust	carats	10 000 000	11 500 000	4 000 000	1 500 000	8 000 000
Diatomite	tonnes	6 095	6 976	6 929	6 082	8 099
Feldspar	tonnes	4 029	6 021	3 861	4 268	6 410
Fluorspar	tonnes	16 176	12 089	14 214	12 959	9 451
Gold						
Metal	kilograms	£10 124 000	£18 292 000	£25 583 000	£26 296 000	£32 625 000
Waste and scrap	kilograms	£7 000	£112 000	£565 000	£53 000	£12 243 000

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Graphite	tonnes	1 252	1 592	1 091	835	1 315
Gypsum						
Crude	tonnes	263 582	244 986	178 364	94 656	256 696
Calcined	tonnes	166 829	146 638	154 201	158 842	73 865
Iodine	kilograms	2 000	5 000	600	400	1 100
Iron ore	tonnes	82 211	(b) 69 937	(b) 71 441	(b) 44 006	(b) 71 821
Iron, steel and ferro-alloys						
Pig iron	tonnes	43 492	59 661	80 450	40 076	58 974
Sponge and powder	tonnes	7 346	16 799	11 861	2 691	11 668
Ferro-chrome	tonnes	86 160	125 057	114 712	78 244	90 630
Ferro-silico-chrome	tonnes	1 370	3 104	3 873	1 215	1 805
Ferro-silico-magnesium	tonnes	5 903	5 986	8 916	2 154	2 445
Ferro-manganese	tonnes	49 295	75 409	68 246	27 869	60 577
Ferro-silico-manganese	tonnes	20 566	17 085	10 677	5 754	9 099
Ferro-molybdenum	tonnes	4 976	4 377	5 693	2 652	4 388
Ferro-nickel	tonnes	8 076	9 162	6 803	3 286	7 995
Ferro-niobium	tonnes	1 504	1 242	1 264	604	1 146
Ferro-phosphorus	tonnes	433	1 331	386	430	415
Ferro-silicon	tonnes	37 095	42 315	34 249	25 880	37 424
Ferro-titanium and ferro-silico-titanium	tonnes	1 681	691	1 370	653	1 127
Ferro-vanadium	tonnes	1 202	1 005	956	547	729
Other ferro-alloys	tonnes	76	105	153	30	76
Silicon metal	tonnes	7 531	6 756	7 631	4 404	6 818
Ingots, blooms, billets	tonnes	108 821	137 032	264 782	119 549	193 605
Scrap	tonnes	279 956	242 167	193 207	174 279	217 682
Kaolin	tonnes	451 919	448 129	468 491	408 564	367 948
Lead						
Ores and concentrates	tonnes	10 476	—	275	—	14 763
Unwrought	tonnes	17 679	6 554	6 922	5 028	5 340
Scrap	tonnes	3 101	3 771	2 089	5 176	9 464
Lithium						
Oxides	tonnes	186	107	146	149	214
Carbonate	tonnes	215	236	278	191	87
Magnesite and magnesia						
Magnesia	tonnes	24 610	17 556	14 701	15 832	12 004
Manganese						
Ores and concentrates	tonnes	72	130	388	854	522
Metal	tonnes	2 380	3 012	3 287	1 880	3 815
Mercury	kilograms	6 000	10 600	13 800	21 300	2 700
Mica	tonnes	515	584	755	721	673
Molybdenum						
Ores and concentrates	tonnes	6 863	7 003	4 645	2 514	5 487
Metal	tonnes	139	281	442	470	644
Oxides	tonnes	1 133	780	711	219	414
Nickel						
Mattes, sinters etc	tonnes	4 215	4 252	1 490	1 607	1 239
Scrap	tonnes	9 158	9 118	12 215	8 709	10 491
Unwrought	tonnes	28 101	25 303	25 474	16 544	23 375
Unwrought alloys	tonnes	1 414	356	1 317	661	397
Crude petroleum	tonnes	19 170 472	17 719 046	19 184 387	16 818 080	18 236 284
Natural gas	tonnes	372 627	749 162	647 510	860 497	1 066 174
Phosphate rock	tonnes	4 283	2 369	922	2 918	3 869
Platinum metals						
Platinum and platinum metals	kilograms	£4 509 000	£6 109 000	£8 722 000	£5 934 000	£7 551 000
Waste and scrap	kilograms	618 000	731 700	13 800	80 200	1 500
Potash						
Sulphate	tonnes	10 191	1 004	2 872	965	1 789
Chloride	tonnes	44 941	27 470	15 689	4 769	55 671
Other potassic fertilisers	tonnes	4 109	4 886	4 735	4 211	5 858
Rare earths						
Metals	tonnes	37	74	46	28	37
Rare earth compounds	tonnes	20	56	68	54	54
Salt	tonnes	1 054 982	744 328	875 294	910 606	905 190
Sillimanite minerals	tonnes	5 568	6 381	5 212	2 395	4 782
Silver						
Ores and concentrates	kilograms	...	21 000	(a)* 2 455 700	2 330 100	...
Metal	kilograms	137 000	162 900	122 200	85 300	83 700

Sweden

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Sulphur and pyrites						
Pyrites	tonnes	557	750	691	544	874
Sulphur	tonnes	82 246	94 449	78 784	21 772	56 961
Sulphur, sublimed and precipitated	tonnes	23	4	112	143	200
Talc	tonnes	44 669	48 746	45 801	28 459	25 998
Tin						
Unwrought (c)	tonnes	838	720	555	364	435
Titanium						
Titanium minerals	tonnes	911	1 032	995	726	1 854
Metal	tonnes	2 294	2 623	2 391	1 593	1 936
Oxides	tonnes	62 841	65 872	61 890	53 071	61 191
Tungsten						
Metal	tonnes	563	546	588	175	179
Carbide	tonnes	738	876	904	233	1 308
Vanadium						
Pentoxide	tonnes	1	1	76	25	0
Metal	tonnes	40	...	...	...	...
Zinc						
Unwrought	tonnes	25 763	21 570	29 211	29 750	37 524
Unwrought alloys	tonnes	20 325	22 600	12 059	2 691	5 905
Zirconium						
Concentrates	tonnes	750	825	832	248	419
Metal	tonnes	134	219	185	218	220

Note(s)

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

Switzerland

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	50 000 000	* 50 000 000	* 37 000 000	* 37 000 000	* 37 000 000
Crushed rock	tonnes	5 700 000	* 5 700 000	* 5 000 000	* 5 000 000	* 5 000 000
Primary aluminium	tonnes	12 000	—	—	—	—
Cement						
Cement, finished (a)	tonnes	4 231 294	4 252 574	4 238 311	4 333 096	4 553 077
Gypsum	tonnes	* 250 000	* 250 000	* 250 000	* 250 000	* 250 000
Crude steel	tonnes	1 252 000	1 264 000	1 312 000	934 000	1 320 000
Lead, refined	tonnes	* 9 000	* 9 000	* 8 000	800	—
Salt	tonnes	525 000	353 000	368 000	554 000	643 000

Note(s)

(a) Includes production in Liechtenstein

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	273 603	486 288	202 846	194 006	193 312
Aluminium and bauxite						
Unwrought (a)	tonnes	21 257	22 645	9 938	14 444	20 954
Alumina	tonnes	1 242	281	5 767	1 240	854
Scrap	tonnes	140 657	139 599	125 769	116 520	131 819
Asbestos						
Unmanufactured	tonnes	0	290	120	30	42
Cement						
Cement clinkers	tonnes	103 367	114 075	91 167	70 207	6 983
Portland cement	tonnes	23 437	13 704	35 925	15 044	103 952
Other cement	tonnes	988	4 014	9 009	4 062	2 959
Chromium						
Metal	tonnes	530	74	54	44	82
Cobalt						
Metal	tonnes	105	94	120	70	80
Copper						
Unwrought	tonnes	1 036	1 002	1 159	623	832
Scrap	tonnes	74 079	75 542	82 687	71 204	75 973
Diamond						
Gem, rough	Carats	119 619	4 360	5 000	1 230	10 000
Gem, cut	Carats	543 079	559 591	360 000	75 000	165 000
Industrial	Carats	76 604	12 100	15 000	7 139	7 902
Dust	Carats	128 180 000	40 985 000	44 105 000	30 400 000	60 980 000
Gold						
Metal	kilograms	965 959	1 095 682	2 103 919	1 010 085	2 287 070
Waste and scrap	kilograms	2 802	102 745	125 459	107 918	105 407
Graphite	tonnes	225	384	600	355	326
Gypsum						
Crude and calcined	tonnes	1 158	2 754	5 207	2 454	8 536
Iodine	kilograms	1 342	1 205	1 605	97	349
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	2 233	2 537	2 126	1 564	2 191
Ferro-alloys	tonnes	616	653	642	943	1 191
Ingots, blooms, billets	tonnes	88 289	104 433	65 257	48 349	66 642
Scrap	tonnes	582 567	585 342	636 462	565 415	623 910
Kaolin	tonnes	433	786	128	203	287
Lead						
Unwrought	tonnes	7 966	7 383	7 387	1 765	230
Scrap	tonnes	3 124	4 860	3 236	4 748	5 497
Lithium						
Oxides	tonnes	69	75	88	2 041	190
Mercury	kilograms	87 136	140 336	11 592	25 372	8 529
						123

Switzerland

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Nickel						
Scrap	tonnes	1 669	1 750	1 603	1 519	1 090
Unwrought (a)	tonnes	154	113	94	53	173
Platinum metals						
Platinum	kilograms	62 243	57 569	69 404	61 433	72 006
Palladium	kilograms	46 578	52 880	86 503	57 571	70 662
Other platinum metals	kilograms	292	636	717	192	464
Waste and scrap	kilograms	200 470	393 326	616 867	362 419	314 061
Rare earths						
Cerium compounds	tonnes	2	2	1	1	2
Other rare earth compounds	tonnes	7	3	1	26	1
Salt	tonnes	62 318	55 916	37 772	68 947	67 537
Silver						
Metal	kilograms	930 397	1 201 402	1 444 198	916 560	1 456 475
Tin						
Unwrought (a)	tonnes	160	112	114	87	60
Scrap	tonnes	130	123	76	136	118
Titanium						
Metal	tonnes	692	868	987	734	805
Oxides	tonnes	1 024	1 133	1 276	1 203	1 466
Tungsten						
Metal	tonnes	270	392	400	239	476
Zinc						
Unwrought (a)	tonnes	1 001	679	1 078	524	415
Scrap	tonnes	2 856	2 408	2 445	2 574	2 582

Note(s)

(a) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	6 700 038	7 371 907	7 256 472	7 246 506	8 010 059
Aluminium and bauxite						
Bauxite	tonnes	5 901	5 850	12 439	8 360	6 718
Alumina	tonnes	21 431	10 745	11 036	9 074	10 662
Alumina hydrate	tonnes	18 333	17 875	17 235	15 269	20 697
Unwrought	tonnes	111 780	136 214	127 018	108 096	148 099
Unwrought alloys	tonnes	79 666	78 916	62 962	50 341	84 113
Scrap	tonnes	26 711	32 716	31 728	23 195	33 341
Antimony						
Ores and concentrates	tonnes	201	38	—	25	14
Oxide	tonnes	1 141	1 461	1 328	793	1 108
Barytes	tonnes	2 433	2 843	3 644	2 605	3 020
Bentonite and fuller's earth						
Bentonite	tonnes	24 407	21 334	21 876	20 407	20 362
Fuller's earth	tonnes	916	...	...	...	...
Bismuth						
Metal	tonnes	6	8	12	12	25
Cement						
Cement clinkers	tonnes	115 001	15 292	8 596	27 649	74 946
Portland cement	tonnes	380 862	348 262	361 305	364 034	465 699
Other cement	tonnes	49 317	37 522	30 908	36 464	49 549
Chromium						
Ores and concentrates	tonnes	1 080	1 339	1 510	974	1 051
Metal	tonnes	162	114	134	38	74
Coal						
Anthracite	tonnes	7 978	9 539	18 721	5 444	7 164
Other coal	tonnes	143 425	214 684	132 824	172 990	124 096
Lignite	tonnes	86 762	84 654	80 814	66 483	62 756
Briquettes	tonnes	4 584	3 908	3 986	4 933	3 328
Cobalt						
Metal	tonnes	408	454	386	243	318

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Unwrought	tonnes	4 843	5 960	5 903	3 473	3 229
Scrap	tonnes	7 641	7 995	5 266	2 710	6 061
Unwrought alloys	tonnes	4 695	4 089	3 925	3 276	4 137
Diamond						
Gem, rough	carats	118 710	8 634	11 566	4 498	20 460
Gem, cut	carats	1 112 264	1 209 708	1 147 690	534 700	840 245
Industrial	carats	63 939	39 174	20 205	23 178	13 944
Dust	carats	127 740 000	59 930 000	54 445 000	39 130 000	74 015 000
Diatomite	tonnes	3 157	4 636	4 864	5 071	5 758
Feldspar	tonnes	6 219	8 056	7 653	6 478	6 593
Fluorspar	tonnes	704	533	571	370	492
Gold						
Metal	kilograms	1 498 693	1 667 100	2 101 027	2 198 967	2 343 011
Waste and scrap	kilograms	104 957	57 001	214 839	319 257	219 260
Graphite	tonnes	722	966	931	306	848
Gypsum						
Crude	tonnes	87 964	93 365	101 731	101 228	112 555
Calcined	tonnes	92 787	95 000	97 296	87 350	100 958
Iodine	kilograms	11 133	18 136	7 260	7 156	10 238
Iron ore (a)	tonnes	16 019	15 626	18 704	16 490	20 553
Iron, steel and ferro-alloys						
Pig iron	tonnes	24 497	28 095	28 630	12 256	16 812
Sponge and powder	tonnes	8 900	9 685	8 873	5 931	6 668
Ferro-chrome	tonnes	1 306	1 834	1 803	288	1 480
Ferro-manganese	tonnes	10 423	9 922	11 696	8 003	11 566
Ferro-silico-manganese	tonnes	3 717	5 992	5 011	1 595	3 767
Ferro-silicon	tonnes	7 122	5 287	5 264	4 287	5 014
Ferro-vanadium	tonnes	83	72	52	82	548
Other ferro-alloys	tonnes	1 352	1 406	1 034	529	876
Silicon metal	tonnes	1 164	1 508	1 255	1 256	1 385
Ingots, blooms, billets	tonnes	47 524	50 301	29 911	9 188	18 026
Scrap	tonnes	499 914	475 542	505 597	313 055	452 626
Kaolin	tonnes	41 481	45 629	39 932	33 555	24 249
Lead						
Unwrought	tonnes	9 185	7 087	9 915	9 446	5 664
Lithium						
Oxides	tonnes	112	142	143	110	118
Magnesite and magnesia						
Magnesite	tonnes	394	1 024	69	502	362
Magnesia	tonnes	7 506	7 144	7 772	4 762	4 625
Manganese						
Ores and concentrates	tonnes	453	415	472	340	214
Metal	tonnes	444	778	472	282	556
Mercury	kilograms	5 333	6 687	3 557	801	1 370
Mica	tonnes	1 151	3 021	1 088	669	1 226
Nickel						
Unwrought (b)	tonnes	1 706	1 787	2 054	1 202	1 370
Crude petroleum	tonnes	5 413 010	4 595 181	5 141 634	4 755 189	4 534 930
Natural gas	tonnes	2 560 801	2 402 267	2 596 153	2 450 414	2 759 930
Phosphate rock	tonnes	1 612	4 645	358	585	3 657
Platinum metals						
Platinum	kilograms	76 842	43 113	67 022	91 048	49 089
Palladium	kilograms	126 416	46 744	60 666	50 258	41 454
Other platinum metals	kilograms	1 078	913	1 255	1 319	813
Waste and scrap	kilograms	172 679	267 258	494 962	688 973	912 680
Potash						
Sulphate	tonnes	4 215	5 259	4 685	3 967	4 914
Chloride	tonnes	18 811	19 279	15 158	7 595	16 865
Other potassic fertilisers	tonnes	2 555	2 504	2 861	1 676	2 049
Rare earths						
Rare earth compounds	tonnes	38	34	34	30	47
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	6	44	...
Salt	tonnes	19 300	8 913	8 988	70 386	37 731
Sillimanite minerals	tonnes	463	1 035	1 128	527	1 162

Switzerland

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Silver						
Ores and concentrates (c)	kilograms	* 792 000	* 39 800	* 9 600	* 100 900	* 55 100
Metal	kilograms	1 306 866	849 037	1 520 531	2 136 092	1 746 243
Sulphur and pyrites						
Pyrites	tonnes	69	51	135	68	185
Sulphur	tonnes	19 369	20 982	17 425	12 086	17 414
Talc	tonnes	10 786	10 360	8 756	7 987	8 490
Tin						
Unwrought (b)	tonnes	1 042	1 241	1 093	800	863
Titanium						
Metal	tonnes	1 357	1 352	1 168	862	971
Oxides	tonnes	18 805	20 455	19 550	17 086	19 725
Tungsten						
Metal	tonnes	146	257	272	105	143
Zinc						
Unwrought	tonnes	12 189	14 473	13 715	9 431	15 521
Unwrought alloys	tonnes	2 214	2 700	2 471	1 549	2 276

Note(s)

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

Turkey

Production

Commodity	Units	2006	2007	2008	2009	2010
Bauxite	tonnes	771 227	863 404	818 928	406 700	855 000
Alumina	tonnes (Al_2O_3 content)	150 117	163 435	* 150 000	* 80 000	* 150 000
Primary aluminium	tonnes	60 000	63 400	61 100	30 000	60 000
Antimony, mine	tonnes (metal content)	* 1 100	* 1 200	* 1 300	* 1 300	* 1 300
Barytes	tonnes	160 000	150 000	150 000	213 187	225 000
Bentonite and fuller's earth						
Bentonite	tonnes	* 600 000	748 170	683 253	753 155	718 260
Sepiolite	tonnes	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Borates	tonnes	2 373 345	1 997 163	2 139 224	1 687 102	1 910 000
Cement						
Cement, clinker	tonnes	32 824 687	39 363 683	41 652 824	41 084 368	43 892 541
Cement, finished	tonnes	47 906 365	50 995 107	54 027 283	55 741 176	60 580 652
Chromium ores and concentrates	tonnes	1 059 901	1 678 932	1 885 712	1 770 029	1 904 460
Coal						
Anthracite	tonnes	3 070 793	3 230 787	3 343 409	3 773 603	3 666 675
Lignite	tonnes	61 010 000	74 316 728	86 074 626	82 263 104	74 437 425
Copper, mine	tonnes (metal content)	46 400	81 000	83 000	87 070	81 500
Copper, refined	tonnes	105 800	99 600	88 000	33 500	47 300
Copper, smelter	tonnes	26 300	17 900	38 000	—	—
Feldspar	tonnes	5 500 000	6 000 000	6 500 000	4 000 000	5 200 000
Gold, mine	kilograms (metal content)	8 040	9 920	11 120	14 450	16 400
Graphite	tonnes	—	—	3 236	2 400	* 2 000
Gypsum	tonnes	4 369 771	3 241 177	7 338 127	4 369 589	* 4 400 000
Iron ore	tonnes	3 251 969	4 549 556	3 990 110	4 169 972	5 188 197
Pig iron	tonnes	5 952 000	6 235 537	6 697 372	6 913 325	7 676 592
Crude steel	tonnes	23 307 523	25 760 889	26 809 050	25 303 741	29 029 789
Ferro-alloys						
Ferro-chrome	tonnes	67 975	69 730	75 840	41 028	...
Ferro-silico-chrome	tonnes	7 310	6 624	6 094	2 903	...
Kaolin	tonnes	* 600 000	456 238	232 746	234 614	711 493
Lead, mine	tonnes (metal content)	11 000	20 800	31 800	21 600	39 000
Lead, refined	tonnes	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
Magnesite	tonnes	2 088 033	1 984 908	2 143 047	861 180	* 1 000 000
Mica	tonnes	—	3 313	8 392	4 172	...
Nickel, mine	tonnes (metal content)	* 10 100	* 19 900	* 14 700	11 992	* 19 500
Perlite	tonnes	* 160 000	* 160 000	* 160 000	* 160 000	* 160 000
Crude petroleum	tonnes	2 175 353	2 131 288	2 222 594	2 489 914	2 602 114
Natural gas	million m ³	307	839	894	660	626
Salt						
Sea salt	tonnes	* 500 000	* 500 000	* 500 000	* 500 000	* 500 000
Other salt	tonnes	* 1 200 000	1 385 822	1 367 981	* 1 300 000	* 1 300 000
Silver, mine	kilograms (metal content)	* 266 000	* 315 000	* 294 000	351 600	348 000
Strontium minerals	tonnes	* 6 300	* 4 200	* 1 600	—	—
Zinc, mine	tonnes (metal content)	122 300	140 500	126 800	135 800	195 500

Note(s)

(1) Turkey is also believed to produce diatomite, sulphur and wollastonite

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	586 393	73 162	1 183 150	908 010	955 765
Aluminium and bauxite						
Bauxite	tonnes	89 764	254 689	262 708	103 317	331 458
Unwrought	tonnes	38 690	47 574	50 056	26 337	42 090
Unwrought alloys	tonnes	9 072	13 012	10 827	9 368	36 994
Alumina	tonnes	73 707	142 557	118 915	77 727	190 094
Scrap	tonnes	14 275	13 415	16 218	14 483	14 291
Antimony						
Ores and concentrates	tonnes	679	819	1 000	1 408	2 765
Metal	tonnes	5	28	0	8	21
Asbestos						
Unmanufactured	tonnes	3	990	685	—	3
Barytes	tonnes	159 128	115 039	123 485	121 744	175 497
Bentonite and fuller's earth						
Bentonite	tonnes	84 595	22 237	244 177	250 082	307 891
Fuller's earth	tonnes	251	...	...	...	...
Cement						
Cement clinkers	tonnes	1 559 980	1 539 287	2 558 779	3 856 403	2 792 332
Portland cement	tonnes	3 277 480	4 323 666	11 010 951	16 356 895	15 842 398
Other cement	tonnes	112 683	124 395	150 785	245 770	415 763
Chromium						
Ores and concentrates	tonnes	887 689	1 265 036	1 816 427	1 748 194	2 256 387
Metal	tonnes	6	7	122	2 667	184
Coal						
Anthracite	tonnes	2 788	1 694	1 043	194	717
Other coal	tonnes	1 315	2 224	55 510	1 715	37 319
Copper						
Ores and concentrates	tonnes	68 286	36 046	251 958	356 922	421 536
Unwrought	tonnes	13 876	11 813	41 780	6 742	8 871
Scrap	tonnes	12 630	8 920	9 670	16 426	12 426
Diamond						
Dust	Carats	£15 000	£28 000	£146 000	£128 000	£152 000
Diatomite	tonnes	* 32 000	34 424	40 370	39 267	37 432
Feldspar (a)	tonnes	* 4 300 000	* 4 300 000	* 4 600 000	* 2 500 000	* 3 400 000
Gold						
Metal	kilograms	13 581	12 068	142 244	162 208	56 035
Graphite	tonnes	57	13	390	257	220
Gypsum						
Crude	tonnes	26 683	43 195	37 899	145 717	134 905
Calcined	tonnes	481 313	544 954	838 314	643 873	682 898
Iodine	kilograms	20 213	11 098	1 212	31 908	2 960
Iron ore	tonnes	791	(b) 3 947	4 163	(b) 3 361	(b) 200 600
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 150	—	10 372	10 616	8 028
Ferro-chrome	tonnes	60 952	63 209	39 324	75 236	74 570
Other ferro-alloys	tonnes	1 747	7 122	5 682	6 199	11 898
Ingots, blooms, billets	tonnes	1 630 209	1 660 642	2 501 135	2 431 211	3 716 586
Scrap	tonnes	44 474	29 237	77 654	66 673	94 498
Kaolin	tonnes	192 298	132 834	130 923	61 828	137 963
Lead						
Ores and concentrates (c)	tonnes	18 415	34 715	52 988	35 973	64 247
Unwrought	tonnes	4 271	930	832	361	400
Magnesite and magnesia						
Magnesite	tonnes	28 937	40 414	68 054	35 097	24 213
Magnesia	tonnes	205 989	181 870	175 441	162 651	209 633
Manganese						
Ores and concentrates	tonnes	2 466	13 007	81 280	59 183	51 731
Metal	tonnes	4	20	401	81	4 952
Nickel						
Scrap	tonnes	102	79	734	470	519
Ores and concentrates	tonnes	91 828	175 712	130 179	99 700	172 682
Unwrought (d)	tonnes	9	—	232	141	292
Crude petroleum (a)	tonnes	* 545 000	* 3 584 000	* 4 115 000	* 2 956 000	* 1 139 000
Natural gas	tonnes	2 974	5 392	412 655	665 247	590 182
Potash						
Potassic fertilisers	tonnes	148	488	3 544	6 438	6 533

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Salt	tonnes	17 095	11 164	27 393	26 223	262 050
Silver Metal	kilograms	8 932	10 700	20 897	170 009	144 942
Sulphur and pyrites						
Sulphur	tonnes	152	7 091	21 289	6 495	279 822
Sulphur, sublimed and precipitated	tonnes	170	15 376	17 259	14 769	21 068
Talc	tonnes	1 195	1 742	1 636	1 712	2 865
Tin						
Unwrought (d)	tonnes	18	179	118	37	79
Titanium						
Metal	tonnes	17	—	49	47	85
Oxides	tonnes	2 023	2 489	2 607	2 237	2 650
Tungsten						
Metal	tonnes	25	33	99	213	139
Vanadium						
Pentoxide	tonnes	—	24	200	119	—
Zinc						
Ores and concentrates	tonnes	144 662	123 956	253 573	272 559	392 725
Scrap	tonnes	176	281	468	1 929	1 536

Note(s)

- (a) BGS estimates, based on known imports into certain countries
- (b) Including burnt pyrites
- (c) Complex lead-zinc ore
- (d) Including alloys

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	4 661	3 843	4 590	3 636	9 372
Aluminium and bauxite						
Bauxite	tonnes	52 627	53 202	39 256	17 350	35 652
Alumina	tonnes	15 237	8 598	18 232	10 394	15 772
Alumina hydrate	tonnes	7 942	4 115	21 275	15 269	27 721
Unwrought	tonnes	245 876	296 098	327 525	358 748	460 915
Unwrought alloys	tonnes	168 498	193 702	270 871	201 124	281 588
Scrap	tonnes	7 061	5 634	16 868	14 215	24 952
Antimony						
Metal	tonnes	181	308	346	369	219
Oxide	tonnes	381	501	522	588	885
Arsenic						
Metallic arsenic	tonnes	77	63	71	74	55
Asbestos						
Unmanufactured	tonnes	6 124	2 518	585	—	—
Barytes	tonnes	279	741	455	507	342
Bentonite and fuller's earth						
Bentonite	tonnes	5 210	10 541	9 806	1 827	1 641
Bismuth						
Metal	tonnes	11	14	21	15	11
Bromine (a)	kilograms	55 642	28 424	6 761	6 497	8 373
Cement						
Cement clinkers	tonnes	1 209 618	1 360 090	380 516	6 053	58 176
Portland cement	tonnes	71 237	39 270	12 279	13 471	5 875
Other cement	tonnes	3 979	4 202	5 036	3 358	6 168
Chromium						
Ores and concentrates	tonnes	84 467	107 524	119 806	113 461	113 487
Coal						
Anthracite	tonnes	502 178	530 393	707 425	457 575	972 425
Other coal	tonnes	14 658 368	13 850 371	18 781 879	19 501 679	21 048 121
Lignite	tonnes	...	...	...	...	5 339
Cobalt						
Metal	tonnes	186	176	148	125	145
Oxides	tonnes	165	142	152	150	199

Turkey

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Copper						
Ores and concentrates	tonnes	18 111	32	3 884	0	1 329
Unwrought, unrefined	tonnes	54 790	34 389	38 116	4 852	5 892
Unwrought, refined	tonnes	150 412	128 077	287 705	289 672	332 482
Unwrought alloys	tonnes	2 160	1 975	3 060	2 828	6 601
Scrap	tonnes	6 602	3 013	1 263	870	3 943
Diamond						
Gem	carats	112 906	135 413	141 553	51 740	131 146
Industrial	carats	44 601	36 999	102 596	29 724	46 890
Dust	carats	13 675 000	9 835 000	18 430 000	19 120 000	25 190 000
Diatomite	tonnes	1 619	1 385	1 491	1 392	1 319
Feldspar	tonnes	44 159	46 323	28 594	28 166	39 953
Fluorspar	tonnes	21 750	23 139	34 073	36 114	37 977
Gold						
Metal	kilograms	157 792	155 471	179 606	52 654	64 105
Graphite	tonnes	6 300	6 095	13 230	6 788	11 191
Gypsum						
Crude and calcined	tonnes	278 129	180 159	167 572	202 523	234 495
Iodine	kilograms	3 219	8 594	9 498	12 133	3 218
Iron ore						
Iron ore	tonnes	7 197 305	6 925 163	5 004 508	7 757 561	7 220 977
Burnt pyrites	tonnes	11 596	...	17 092	14 097	—
Iron, steel and ferro-alloys						
Pig iron	tonnes	333 981	338 641	802 741	770 160	557 398
Sponge and powder	tonnes	34 440	19 801	96 393	81 008	284 608
Ferro-chrome	tonnes	4 610	11 138	11 321	2 787	8 159
Ferro-silico-magnesium	tonnes	1 122	2 627	12 008	6 047	8 137
Ferro-manganese	tonnes	60 213	56 619	73 319	46 760	61 866
Ferro-silico-manganese	tonnes	216 036	236 039	195 623	191 605	229 451
Ferro-molybdenum	tonnes	1 020	1 628	1 645	1 173	1 577
Ferro-niobium	tonnes	435	446	609	338	147
Ferro-phosphorus	tonnes	919	246	1 731	412	1 050
Ferro-silicon	tonnes	72 599	100 758	90 477	60 164	87 552
Ferro-titanium and ferro-silico-titanium	tonnes	649	616	634	651	167
Ferro-vanadium	tonnes	483	472	529	323	261
Other ferro-alloys	tonnes	6 235	7 015	337	13	16
Silicon metal	tonnes	5 233	2 530	6 207	5 852	9 978
Ingots, blooms, billets	tonnes	1 504 374	1 930 627	3 849 141	3 590 665	2 350 758
Scrap	tonnes	12 860 533	13 335 810	17 414 983	15 372 727	19 138 460
Kaolin	tonnes	190 924	163 015	402 812	301 086	424 152
Lead						
Unwrought	tonnes	56 792	46 966	79 460	73 520	73 057
Lithium						
Oxides	tonnes	248	245	257	208	268
Carbonate	tonnes	491	683	617	613	770
Magnesite and magnesia						
Magnesia	tonnes	29 148	43 360	61 519	40 595	60 121
Manganese						
Ores and concentrates	tonnes	383	428	2 531	540	694
Metal	tonnes	509	719	874	583	980
Mercury	kilograms	2 052	9	3 069	1 635	719
Mica	tonnes	413	293	385	477	317
Molybdenum						
Ores and concentrates	tonnes	2	4	3	291	46
Metal	tonnes	6	8	89	16	28
Oxides	tonnes	80	69	167	54	100
Nickel						
Unwrought (b)	tonnes	3 417	3 710	4 038	2 711	3 391
Oxides	tonnes	150	140	142	148	144
Crude petroleum	tonnes	23 786 875	23 445 764	21 833 471	14 219 427	16 873 392
Phosphate rock	tonnes	744 504	782 996	741 190	707 595	686 966
Platinum metals						
Platinum and platinum metals	kilograms	212	316	463	235	200
Potash						
Sulphate	tonnes	19 373	57 661	33 427	11 576	34 986
Chloride	tonnes	78 671	96 038	82 412	50 634	82 923
Other potassic fertilisers	tonnes	146	47	398	303	1 075

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Rare earths						
Rare earth compounds	tonnes	117	183	360	204	246
Metals	tonnes	0	8	9	9	14
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	12	10	...
Salt	tonnes	285 694	35 382	257 146	99 400	154 536
Sillimanite minerals	tonnes	2 939	6 987	9 535	8 526	18 141
Silver						
Metal	kilograms	108 588	996 239	154 639	57 700	90 064
Sulphur and pyrites						
Pyrites	tonnes	231	252	224	67	480
Sulphur	tonnes	162 187	168 952	128 685	164 034	141 478
Sulphur, sublimed and precipitated	tonnes	111	194	321	1 315	592
Talc	tonnes	17 143	18 549	17 706	14 893	20 026
Tin						
Unwrought (b)	tonnes	2 380	2 788	2 603	1 630	2 558
Titanium						
Titanium minerals	tonnes	6 831	* 9 000	7 762	5 628	7 390
Oxides	tonnes	108 721	111 858	106 206	98 100	127 266
Zinc						
Unwrought	tonnes	397 384	136 916	147 215	137 765	182 598
Unwrought alloys	tonnes	5 481	3 775	4 091	1 714	2 876
Scrap	tonnes	3 206	1 913	1 381	181	161
Zirconium						
Concentrates	tonnes	1 118	980	4 844	2 918	4 823

Note(s)

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

United Kingdom

Production

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates						
Sand and gravel	tonnes	92 107 000	93 236 000	85 473 000	66 226 000	61 700 000
Crushed rock (a)	tonnes	145 578 000	148 534 000	127 996 000	104 626 000	94 203 000
Primary aluminium	tonnes	360 325	364 595	326 900	252 000	186 000
Barytes	tonnes	48 000	53 000	43 000	36 000	33 000
Cement						
Cement, clinker	tonnes	10 069 000	10 227 000	8 700 000	6 421 000	6 599 000
Cement, finished	tonnes	11 469 000	11 887 000	10 071 000	7 623 000	7 767 000
Coal						
Bituminous (b)	tonnes	18 517 000	17 070 000	18 053 000	17 874 000	18 417 000
Feldspar (c)(d)	tonnes	1 441	1 112	430	—	—
Fluorspar	tonnes	49 676	44 936	36 801	18 536	26 420
Gold, mine	kilograms (metal content)	—	88	163	187	177
Gypsum	tonnes	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Iron ore	tonnes	341	(t)* 300	145	—	—
Pig iron	tonnes	10 695 700	10 959 800	10 136 800	7 671 100	7 233 000
Crude steel	tonnes	13 904 600	14 392 300	13 520 500	10 074 500	9 708 000
Kaolin	tonnes	1 762 328	1 671 426	1 355 365	1 059 848	* 1 000 000
Lead, mine (e)	tonnes (metal content)	* 400	* 300	* 300	243	251
Lead, refined	tonnes	318 703	263 391	283 000	301 865	297 453
Nickel, smelter/refinery	tonnes	36 750	34 050	40 800	17 800	28 900
Crude petroleum	tonnes	69 665 000	70 357 000	66 745 000	64 001 000	58 988 000
Natural gas	million m ³	84 748	76 970	74 937	63 022	59 674
Potash						
Chloride	tonnes (K ₂ O content)	427 000	430 000	403 800	* 403 800	* 403 800
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 (f)	tonnes	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000
Silver, mine	kilograms (metal content)	—	212	398	514	506
Talc	tonnes	4 325	2 850	2 410	2 861	...

Note(s)

- (1) United Kingdom is also believed to produce arsenic and sulphur
 (2) In addition to the countries producing sillimanite minerals, production capacity for synthetic mullite is known to exist in the United Kingdom, but output is believed to be zero

- (a) Includes small quantities for other purposes in Northern Ireland
- (b) Including anthracite
- (c) China stone
- (d) Including weathered granite feldspar
- (e) By-product of Pennine fluorspar operations and of gold mining in Northern Ireland.
- (f) Used for purposes other than salt-making

Exports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	14 631 060	14 048 387	13 008 608	10 714 861	10 992 431
Aluminium and bauxite						
Bauxite	tonnes	28 636	4 276	6 121	3 873	3 140
Unwrought	tonnes	17 530	30 631	20 690	17 688	43 665
Unwrought alloys	tonnes	331 598	269 523	265 018	305 849	364 612
Alumina	tonnes	9 979	9 016	9 517	16 810	5 879
Alumina hydrate (a)	tonnes	* 1 900	* 5 200	* 5 300	* 4 400	* 2 100
Scrap	tonnes	385 211	906 831	872 988	422 574	443 466
Antimony						
Metal	tonnes	27	21	35	75	77
Oxide	tonnes	397	379	558	407	490
Barytes	tonnes	4 250	9 242	9 976	13 095	17 851
Bentonite and fuller's earth						
Bentonite	tonnes	42 548	47 122	43 261	34 622	41 323
Sepiolite	tonnes	172	186	226	130	...
Fuller's earth	tonnes	1 102	...	...	...	...
Bismuth						
Metal	tonnes	2 703	2 588	905	941	427
Bromine	kilograms	1 137 544	1 469 781	1 015 304	497 246	780 704
Cadmium						
Metal	tonnes	7	76	54	25	2 545
Cement						
Cement clinkers	tonnes	91 357	28 432	15 071	4 708	5 500
Portland cement	tonnes	521 784	459 629	230 920	92 628	134 223
Other cement	tonnes	86 858	88 452	93 122	51 359	56 781
Chromium						
Ores and concentrates	tonnes	47	178	—	32 507	297
Metal	tonnes	5 123	6 777	6 501	5 058	7 441
Coal						
Anthracite	tonnes	137 353	123 549	165 473	119 472	89 701
Other coal	tonnes	354 281	419 193	742 582	391 414	615 067
Lignite	tonnes	2 748	1 965	2 334	2 186	2 408
Briquettes	tonnes	20 037	27 591	52 605	68 226	89 125
Cobalt						
Metal	tonnes	1 695	2 300	2 614	2 572	1 780
Oxides	tonnes	750	689	798	891	1 267
Copper						
Matte and cement	tonnes	515	16	28	14	33
Unwrought, unrefined	tonnes	153	786	3 066	205	185
Unwrought, refined	tonnes	5 969	8 489	4 850	14 059	8 863
Unwrought alloys	tonnes	17 251	18 142	17 822	11 839	12 782
Scrap	tonnes	311 058	346 361	358 981	429 467	421 868
Diamond						
Unsorted	Carats	3 544 216	5 307 857	3 388 395	4 090 534	3 689 202
Gem, rough	Carats	88 991 279	84 573 134	66 479 817	43 775 775	51 769 860
Gem, cut	Carats	2 341 635	477 463	795 612	257 202	283 435
Industrial	Carats	13 652 233	4 754 029	6 121 081	4 440 922	2 478 568
Dust	Carats	111 788 350	104 552 775	122 681 695	105 427 132	113 451 535
Diatomite	tonnes	687	1 238	903	533	1 650
Feldspar	tonnes	38	40	82	369	38
Gold						
Metal	kilograms	166 080	224 598	600 018	96 231	293 153
Waste and scrap	kilograms	313 712	282 298	272 339	533 182	496 924
Graphite	tonnes	2 979	3 065	3 156	2 271	2 981
Gypsum						
Crude	tonnes	2 679	1 248	1 493	1 978	3 330
Calcined	tonnes	63 533	57 988	48 340	32 551	24 552
Iodine	kilograms	314 659	368 785	174 965	121 370	393 005
Iron ore	tonnes	(b) 5 235	(b) 5 491	(b) 7 821	32 579	(b) 5 256

United Kingdom

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Iron, steel and ferro-alloys						
Pig iron	tonnes	5 407	15 892	2 523	27 765	4 339
Sponge and powder	tonnes	2 346	4 969	2 794	3 103	2 938
Ferro-chrome and ferro-silico-chrome	tonnes	4 066	2 973	1 385	1 524	2 425
Ferro-silico-magnesium	tonnes	653	917	976	458	366
Ferro-manganese	tonnes	946	1 136	1 210	963	8 361
Ferro-silico-manganese	tonnes	60	7	49	65	52
Ferro-molybdenum	tonnes	12 004	11 823	11 283	7 634	11 248
Ferro-nickel	tonnes	329	52	81	18	15
Ferro-niobium	tonnes	74	49	58	52	224
Ferro-phosphorus	tonnes	36	33	45	312	667
Ferro-silicon	tonnes	2 733	2 314	3 250	3 338	2 958
Ferro-titanium and ferro-silico-titanium	tonnes	17 645	19 515	18 557	13 098	15 197
Ferro-tungsten and ferro-silico-tungsten	tonnes	17	8	31	1	4
Ferro-vanadium	tonnes	151	96	79	64	24
Other ferro-alloys	tonnes	3 637	2 917	3 981	1 373	3 774
Silicon metal	tonnes	6 963	11 325	15 132	7 753	2 901
Ingots, blooms, billets	tonnes	2 692 654	3 514 850	3 348 794	2 118 701	1 137 160
Scrap	tonnes	7 407 174	6 013 907	6 616 708	6 007 656	7 507 853
Kaolin	tonnes	2 629 173	2 499 011	1 955 020	1 393 939	1 722 335
Lead						
Unwrought	tonnes	89 271	68 152	79 520	126 743	105 235
Unwrought alloys	tonnes	48 589	39 246	57 466	54 505	62 406
Scrap	tonnes	1 859	31 942	47 660	56 055	69 404
Lithium						
Oxides	tonnes	94	92	232	569	144
Carbonate	tonnes	271	158	216	193	123
Magnesite and magnesia						
Magnesite	tonnes	26	51	316	518	470
Magnesia	tonnes	19 036	16 371	13 647	9 662	14 497
Manganese						
Metal (a)	tonnes	* 2 000	* 2 100	* 3 100	* 1 800	* 2 000
Mercury	kilograms	78 514	4 311	6 369	178 571	9 321
Mica	tonnes	4 593	3 820	4 749	3 944	4 137
Molybdenum						
Ores and concentrates	tonnes	166	78	64	35	305
Metal	tonnes	318	237	241	433	572
Nickel						
Unwrought	tonnes	31 610	24 147	26 235	15 834	18 639
Unwrought alloys	tonnes	6 486	4 375	4 378	4 753	4 530
Scrap	tonnes	15 555	16 872	18 229	12 693	19 361
Crude petroleum	tonnes	47 864 601	47 058 702	43 354 245	43 550 953	41 591 305
Natural gas (c)	tonnes	10 369 017	10 589 741	10 547 780	11 788 544	15 167 668
Platinum metals						
Platinum	kilograms	42 843	52 789	40 630	43 177	24 464
Palladium	kilograms	48 688	56 994	47 142	53 091	42 864
Other platinum metals	kilograms	23 353	23 731	22 548	20 044	23 021
Waste and scrap	kilograms	3 507 381	3 793 637	4 278 682	4 273 222	527 862
Potash						
Chloride (a)	tonnes	* 497 700	* 220 600	* 244 300	* 205 600	* 339 000
Other potassic fertilisers	tonnes	612	399	562	228	420
Rare earths						
Cerium compounds	tonnes	111	37	73	105	182
Other rare earth compounds	tonnes	954	1 089	622	459	614
Metals	tonnes	29	143	237	54	46
Ferro-cerium and other pyrophoric alloys	tonnes	76	80	7	6	37
Salt	tonnes	557 311	514 868	873 708	449 303	450 246
Sillimanite minerals	tonnes	1 925	2 430	2 076	1 414	1 378
Silver						
Ores and concentrates	kilograms	...	1 627	192	1 338	2 035
Metal	kilograms	1 069 383	2 317 951	6 071 009	943 522	2 579 909
Sulphur and pyrites						
Sulphur, crude	tonnes	113	8 207	13 182	2 545	41 491
Sulphur, refined	tonnes	643	15 268	27 872	38 723	1 198
Sulphur, sublimed and precipitated	tonnes	1 312	624	1 144	1 902	1 349
Talc	tonnes	4 626	2 389	3 129	2 402	3 074

Exports continued

Commodity	Units	2006	2007	2008	2009	2010
Tantalum and niobium						
Tantalum	tonnes	83	77	55	72	191
Tin						
Concentrates	tonnes	4	373	254	61	163
Unwrought	tonnes	8 395	4 085	1 264	928	1 856
Unwrought alloys	tonnes	698	696	532	537	389
Scrap	tonnes	35 252	27 329	19 110	22 597	13 115
Titanium						
Metal	tonnes	14 028	12 934	11 155	9 555	12 060
Oxides	tonnes	182 247	212 068	222 503	203 873	208 518
Tungsten						
Metal	tonnes	2 100	2 444	1 625	1 541	1 650
Carbide	tonnes	251	303	51	80	41
Vanadium						
Pentoxide	tonnes	23	697	589	487	694
Metal	tonnes	69	2 182	2	18	23
Zinc						
Ores and concentrates	tonnes	468	82	246	11 418	8 405
Unwrought	tonnes	5 325	5 932	3 883	3 600	3 580
Unwrought alloys	tonnes	37 120	33 799	28 408	13 578	14 561
Scrap	tonnes	4 571	7 543	5 699	6 030	14 903
Zirconium						
Concentrates	tonnes	902	1 096	716	742	1 405

Note(s)

- (a) BGS estimates, based on known imports into certain countries
 (b) Including burnt pyrites
 (c) Tonnes of oil equivalent, converted from GWh. One GWh is 85.985 tonnes of oil equivalent. Source: Department of Energy and Climate Change

Imports

Commodity	Units	2006	2007	2008	2009	2010
Primary aggregates	tonnes	2 905 198	2 806 448	2 631 986	2 054 272	2 239 950
Aluminium and bauxite						
Bauxite	tonnes	86 882	48 741	57 971	37 461	41 650
Alumina	tonnes	823 115	787 218	705 033	352 250	229 158
Alumina hydrate	tonnes	101 126	112 287	110 503	98 516	87 278
Unwrought	tonnes	169 259	201 262	160 797	304 621	138 975
Unwrought alloys	tonnes	245 496	93 145	93 210	43 601	62 686
Scrap	tonnes	137 626	158 827	145 819	117 651	126 584
Antimony						
Metal	tonnes	81	110	98	88	45
Oxide	tonnes	2 291	1 917	2 454	1 548	2 598
Arsenic						
Metallic arsenic	tonnes	49	70	52	60	7
Asbestos						
Unmanufactured	tonnes	0	187	...	11	—
Barytes	tonnes	78 225	84 617	56 794	61 308	89 474
Bentonite and fuller's earth						
Bentonite	tonnes	173 483	157 388	205 853	140 301	141 849
Sepiolite	tonnes	72 340	282 733	227 453	70 651	106 108
Fuller's earth	tonnes	14 700	...	...	...	...
Bismuth						
Metal	tonnes	2 347	1 908	1 582	310	366
Bromine	kilograms	7 592 352	5 266 339	5 903 423	6 534 300	5 787 829
Cadmium						
Metal	tonnes	129	276	212	246	470
Cement						
Cement clinkers	tonnes	516 583	836 788	366 791	206 857	201 308
Portland cement	tonnes	1 397 025	1 534 683	1 731 228	1 718 146	1 759 841
Other cement	tonnes	26 790	26 215	28 324	30 815	92 031

United Kingdom

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Chromium						
Ores and concentrates	tonnes	74 907	103 551	117 715	33 867	7 084
Metal	tonnes	4 022	2 134	3 099	2 904	3 007
Coal						
Anthracite	tonnes	125 011	135 941	213 318	207 327	187 246
Other coal	tonnes	49 544 012	43 024 560	43 038 043	36 553 574	23 227 529
Lignite	tonnes	824	10	20	0	96
Briquettes	tonnes	9 995	6 501	14 131	9 021	11 169
Cobalt						
Ore	tonnes	24	0	72	200	143
Metal	tonnes	4 427	5 422	5 395	3 928	5 963
Oxides	tonnes	195	180	138	168	198
Copper						
Ores and concentrates	tonnes	2 571	1 676	699	581	189
Matte and cement	tonnes	15	2	14	1	22
Unwrought, unrefined	tonnes	264	7 401	5 529	3 034	2 039
Unwrought, refined	tonnes	183 727	46 820	47 716	45 249	40 708
Unwrought alloys	tonnes	6 399	6 202	5 721	4 066	5 688
Scrap	tonnes	19 744	21 852	21 132	18 549	27 495
Diamond						
Unsorted	carats	14 408 621	13 661 786	10 283 610	8 348 854	8 703 907
Gem, rough	carats	78 790 692	81 195 314	59 534 653	44 064 081	40 559 260
Gem, cut	carats	7 370 573	973 433	1 343 330	868 406	761 455
Industrial	carats	11 884 651	7 524 168	5 127 610	3 321 670	7 299 364
Dust	carats	199 882 920	198 484 150	187 268 975	88 148 090	111 136 020
Diatomite	tonnes	28 290	24 224	23 084	22 014	18 649
Feldspar	tonnes	17 098	26 751	18 899	9 299	17 584
Fluorspar	tonnes	6 620	3 875	8 429	6 436	1 294
Gold						
Metal	kilograms	781 840	649 163	914 000	1 166 948	800 602
Waste and scrap	kilograms	7 925	17 046	43 143	213 440	65 833
Graphite	tonnes	16 978	17 225	14 309	7 850	6 989
Gypsum						
Crude	tonnes	369 714	196 613	140 783	396 138	216 605
Calcined	tonnes	92 069	52 678	88 766	60 337	54 209
Iodine	kilograms	1 019 543	1 225 368	1 106 864	1 075 328	1 253 806
Iron ore						
Iron ore	tonnes	16 370 705	17 435 472	15 282 786	9 185 919	10 597 085
Burnt pyrites	tonnes	1 282	131 230	693	232	—
Iron, steel and ferro-alloys						
Pig iron	tonnes	81 689	89 863	61 657	19 703	41 959
Sponge and powder	tonnes	34 768	11 766	27 003	17 483	97 745
Ferro-chrome	tonnes	52 494	46 975	79 692	34 884	58 398
Ferro-silico-chrome	tonnes	350	1 242	128	26	9
Ferro-silico-magnesium	tonnes	3 810	2 303	1 614	512	931
Ferro-manganese	tonnes	86 598	100 694	96 461	49 700	46 985
Ferro-silico-manganese	tonnes	59 985	56 036	52 966	37 114	49 280
Ferro-molybdenum	tonnes	640	515	369	325	322
Ferro-nickel	tonnes	13 169	14 960	16 520	2 777	6 284
Ferro-niobium	tonnes	1 098	1 490	1 189	686	859
Ferro-phosphorus	tonnes	386	2 070	2 473	282	836
Ferro-silicon	tonnes	64 610	66 838	59 438	31 091	43 703
Ferro-titanium and ferro-silico-titanium	tonnes	1 087	1 677	1 290	396	274
Ferro-tungsten and ferro-silico-tungsten	tonnes	134	33	27	26	48
Ferro-vanadium	tonnes	1 623	755	543	209	340
Other ferro-alloys	tonnes	2 132	3 215	2 210	2 270	547
Silicon metal	tonnes	29 512	25 787	56 807	68 109	99 651
Ingots, blooms, billets	tonnes	1 053 176	849 803	679 019	212 829	714 541
Scrap	tonnes	154 967	204 100	228 294	213 818	270 986
Kaolin	tonnes	99 262	73 014	79 546	77 504	95 865
Lead						
Unwrought, base bullion (a)	tonnes	120 871	119 726	194 113	130 312	151 653
Unwrought, other	tonnes	53 892	31 187	39 493	17 277	15 147
Scrap	tonnes	5 914	17 685	4 621	4 962	8 858
Lithium						
Oxides	tonnes	385	614	466	914	218
Carbonate	tonnes	650	779	536	622	427

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Magnesite and magnesia						
Magnesite	tonnes	10 644	10 194	7 016	3 567	8 640
Magnesia	tonnes	64 896	57 905	59 300	43 873	49 076
Manganese						
Ores and concentrates (b)	tonnes	8 458	1 569	4 133	941	1 517
Metal	tonnes	8 563	7 021	8 773	4 123	6 619
Mercury	kilograms	2 128	2 668	2 387	1 121	22 065
Mica						
Unmanufactured (c)	tonnes	251	289	377	328	43
Ground	tonnes	5 856	6 705	7 061	6 396	7 341
Waste	tonnes	3 474	3 433	2 030	49	902
Molybdenum						
Ores and concentrates	tonnes	19 032	18 381	15 130	9 007	12 581
Metal	tonnes	3 445	1 390	2 102	707	1 099
Oxides	tonnes	635	513	1 433	510	1 638
Nickel						
Mattes, sinters etc	tonnes	56 336	62 637	63 553	25 929	50 263
Unwrought	tonnes	17 414	21 044	16 888	8 003	14 200
Unwrought alloys	tonnes	2 883	2 947	3 210	3 596	3 310
Scrap	tonnes	7 975	10 376	10 291	9 593	8 154
Crude petroleum	tonnes	55 735 570	44 129 689	52 103 843	50 656 965	50 447 008
Natural gas (d)	tonnes	20 982 834	29 065 166	35 000 538	39 191 017	50 687 900
Phosphate rock	tonnes	7 803	23 052	28 971	5 600	9 873
Platinum metals						
Platinum	kilograms	23 472	26 015	29 943	30 339	58 659
Palladium	kilograms	37 226	42 395	32 806	36 652	73 184
Other platinum metals	kilograms	9 127	6 507	5 409	6 713	9 487
Waste and scrap	kilograms	1 148 802	1 456 413	1 416 905	1 100 117	819 769
Potash						
Fertiliser salts	tonnes	10 696	...	...	...	...
Sulphate	tonnes	14 274	16 166	15 157	15 766	15 766
Chloride	tonnes	170 942	202 623	165 331	80 842	270 096
Other potassic fertilisers	tonnes	1 310	10 813	11 919	10 422	10 565
Rare earths						
Cerium compounds	tonnes	1 615	2 167	2 067	612	1 119
Other rare earth compounds	tonnes	600	664	251	103	322
Metals	tonnes	88	88	133	99	119
Ferro-cerium and other pyrophoric alloys	tonnes	60	77	57	148	150
Salt	tonnes	246 879	237 772	237 288	410 434	1 288 253
Sillimanite minerals						
Sillimanite minerals	tonnes	10 268	10 239	11 920	7 763	7 419
Mullite	tonnes	7 468	12 036	6 488	5 255	8 276
Silver						
Ores and concentrates	kilograms	249	8 283	8 332	1 106	9 737
Metal	kilograms	7 316 639	3 635 563	3 943 638	6 649 190	3 278 015
Sulphur and pyrites						
Pyrites	tonnes	19	105	704	104	2 581
Sulphur, crude	tonnes	11 608	5 101	64	74	274
Sulphur, refined	tonnes	7 334	8 577	9 574	6 211	10 201
Sulphur, sublimed and precipitated	tonnes	1 297	1 073	1 186	473	767
Talc	tonnes	55 200	54 812	53 864	39 520	50 309
Tantalum and niobium						
Tantalum	tonnes	119	96	161	145	284
Tin						
Unwrought	tonnes	3 558	13 630	7 181	4 522	4 327
Unwrought alloys	tonnes	891	525	400	370	365
Scrap	tonnes	1 728	452	448	121	196
Titanium						
Ilmenite	tonnes	175 882	181 794	194 719	112 068	90 622
Other titanium minerals	tonnes	48 147	42	37	23	...
Metal	tonnes	30 267	30 905	32 305	23 178	20 681
Oxides	tonnes	71 528	74 708	58 747	53 864	65 963
Titanium slag	tonnes	91 603	151 494	158 195	127 224	...
Tungsten						
Ores and concentrates	tonnes	34	2	11	35	2
Metal	tonnes	4 607	2 925	1 865	1 477	1 676
Carbide	tonnes	913	1 409	1 023	614	1 111

United Kingdom

Imports continued

Commodity	Units	2006	2007	2008	2009	2010
Vanadium						
Pentoxide	tonnes	472	425	344	84	5
Metal	tonnes	407	583	314	112	197
Zinc						
Ores and concentrates (e)	tonnes	603	164	257	119	574
Unwrought	tonnes	119 676	122 458	119 911	84 594	97 066
Unwrought alloys	tonnes	15 666	13 201	8 524	1 869	2 973
Scrap	tonnes	334	30	103	344	447
Zirconium						
Concentrates	tonnes	13 729	11 007	13 092	6 386	8 450
Metal	tonnes	467	446	521	203	411

Note(s)

- (a) Includes a substantial precious metal content, mainly silver
- (b) Including manganeseiferous iron ore
- (c) Including sheets or splittings.
- (d) Tonnes of oil equivalent, converted from GWh. One GWh is 85.985 tonnes of oil equivalent. Source: Department of Energy and Climate Change
- (e) Zinc and mixed zinc-lead concentrates.

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.

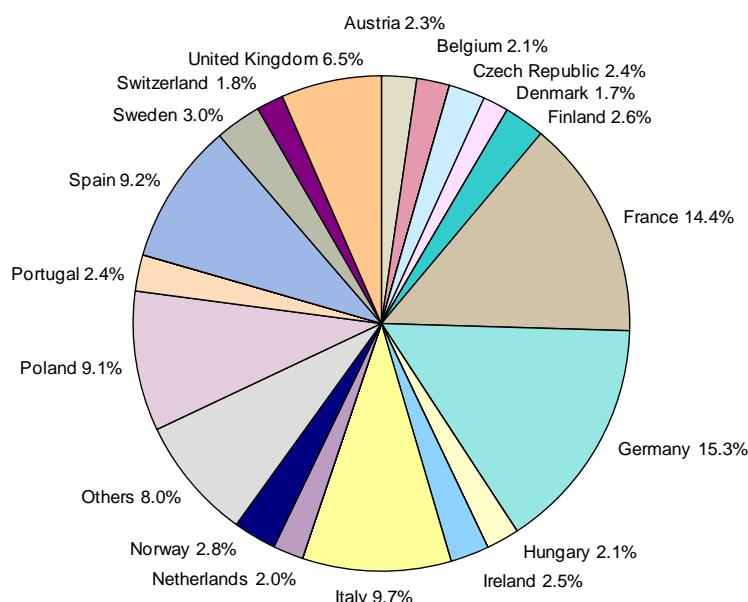
Aggregates data are very difficult to establish accurately. There are frequent inconsistencies in the way countries report aggregates production and trade. Different definitions for similar materials are commonplace, and many countries do not require production to be reported from quarries that have 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 EU34 producer of primary aggregates in 2010, with 366.1 million tonnes (15.3 per cent of EU total), closely followed by France (14.4 per cent). Despite production falling by another seven per cent compared to 2009, Italy remained ahead of Spain due to Spain's output falling by a further 14 per cent compared to the previous year. Almost every country in the EU34 saw their production of aggregates decline further in 2010 as a result of weak recoveries from the global recession. The countries where output increased compared to 2009 were Norway (up 4.2 per cent), Poland (up 13 per cent), Cyprus (up 13.2 per cent) and Lithuania (up 13.4 per cent).

Overall the production of aggregates from the EU34 countries has fallen by 23.7 per cent between 2006 and 2010. The most significant falls over this period have been in Ireland (down 62.5 per cent), Spain (down 54.6 per cent), Slovenia (down 54.1 per cent), Denmark (down 45.6 per cent), Finland (down 37.0 per cent), Netherlands (down 34.9 per cent) and United Kingdom (down 34.4 per cent). In contrast production of aggregates in Poland has increased by 40.4 per cent between 2006 and 2010.

EU34 Production of aggregates 2010



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

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Sand and gravel (a)	27 281 864	29 230 545	32 440 624	30 238 150	30 182 855
Crushed rock (a)	26 536 938	25 248 136	33 867 686	29 784 794	24 399 380
Belgium					
Sand and gravel (b) (c)	8 636 966	* 8 600 000	* 8 600 000	* 8 000 000	* 8 000 000
Crushed rock (b) (d)	39 937 651	* 43 000 00	* 42 000 00	* 43 000 00	* 43 000 000
Bulgaria					
Sand and gravel	15 289 051	17 607 212	19 697 937	12 882 651	5 199 000
Crushed rock	8 889 017	12 199 339	21 094 047	15 667 880	16 876 900
Croatia					
Sand and gravel	...	...	7 275 077	6 583 880	3 646 572

Production continued

tonnes

Country	2006	2007	2008	2009	2010
Cyprus					
Crushed rock	12 198 513	13 129 470	14 174 480	11 467 987	12 981 444
Czech Republic					
Sand and gravel	27 198 000	28 233 000	27 306 000	23 974 000	19 240 000
Crushed rock	41 561 000	43 214 000	44 277 000	41 307 000	37 270 000
Denmark					
Sand and gravel	72 508 000	68 255 000	59 704 000	42 202 500	39 338 000
Crushed rock	372 000	410 000	384 000	312 000	288 000
Estonia					
Sand and gravel	4 209 080	6 531 740	3 635 700	3 911 980	3 524 400
Crushed rock	8 298 400	8 855 800	7 945 900	6 034 500	5 752 600
Finland					
Sand and gravel	54 000 000	59 000 000	25 000 000	16 000 000	* 16 000 000
Crushed rock	46 000 000	54 000 000	60 000 000	47 000 000	* 47 000 000
France					
Sand and gravel	174 360 000	180 450 000	171 610 000	146 290 000	141 290 000
Crushed rock	233 090 000	242 950 000	236 770 000	209 440 000	201 860 000
Germany					
Sand and gravel	266 000 000	263 300 000	260 000 000	245 000 000	239 000 000
Crushed rock	138 700 000	134 000 000	137 400 000	134 100 000	127 100 000
Greece	* 90 000 000	* 90 000 000	* 85 000 000	* 65 000 000	* 65 000 000
Hungary					
Sand and gravel	46 458 296	34 815 891	36 647 400	35 591 131	35 400 000
Crushed rock	17 944 036	13 046 962	17 030 760	15 808 088	15 800 000
Ireland, Republic of					
Sand and gravel	* 64 000 000	* 40 000 000	* 25 000 000	* 20 000 000	* 20 000 000
Crushed rock	* 96 000 000	* 90 000 000	* 60 000 000	* 45 000 000	* 40 000 000
Italy					
Sand and gravel (a)	185 382 004	170 071 749	174 779 712	164 218 753	150 996 352
Crushed rock (a)	91 397 876	97 463 072	91 373 378	84 717 579	80 336 696
Latvia					
Sand and gravel	5 957 744	9 998 863	8 905 937	6 520 363	5 890 950
Crushed rock	582 081	937 030	1 413 395	818 390	1 375 197
Lithuania					
Sand and gravel	7 633 311	9 181 552	9 469 411	5 029 476	5 655 401
Crushed rock	5 259 535	6 424 791	6 913 160	2 849 122	3 281 330
Montenegro					
Sand and gravel	...	...	...	40 443	56 432
Crushed rock	...	...	...	8 780	19 558
Netherlands					
Sand and gravel	72 147 000	69 437 000	67 622 000	47 000 000	* 47 000 000
Norway					
Sand and gravel	13 418 000	14 855 000	14 817 000	13 047 000	13 011 000
Crushed rock	45 947 000	51 533 000	52 338 000	51 378 000	54 134 000
Poland					
Sand and gravel (e)	* 116 561 000	* 139 388 000	* 149 312 000	* 140 890 000	* 160 000 000
Crushed rock	38 835 618	46 854 829	39 465 558	52 217 696	58 126 448
Portugal					
Sand and gravel	9 764 029	10 664 828	10 182 146	9 190 603	7 500 000
Crushed rock	65 428 239	60 556 329	58 283 117	55 263 772	49 191 754
Romania					
Sand and gravel	21 817 372	26 276 857	31 377 110	23 199 337	22 083 463
Crushed rock	3 373 384	5 905 842	4 635 010	4 705 884	3 764 044
Slovakia					
Sand and gravel	7 522 034	6 470 725	7 517 655	6 919 826	6 931 873
Crushed rock	14 088 600	13 338 000	16 345 800	15 233 400	14 909 400
Slovenia					
Sand and gravel	17 873 000	21 548 000	19 171 000	15 720 000	2 658 027
Crushed rock	14 213 319	14 279 253	14 982 560	13 609 728	12 072 532
Spain					
Sand and gravel	130 000 000	143 000 000	118 000 000	96 000 000	* 80 000 000
Crushed rock	355 000 000	280 000 000	214 000 000	160 000 000	* 140 000 000
Sweden					
Sand and gravel	21 488 963	20 036 785	18 804 343	14 400 000	* 14 400 000
Crushed rock	70 517 845	64 047 058	66 757 671	57 500 000	* 57 500 000

Aggregates

Production continued

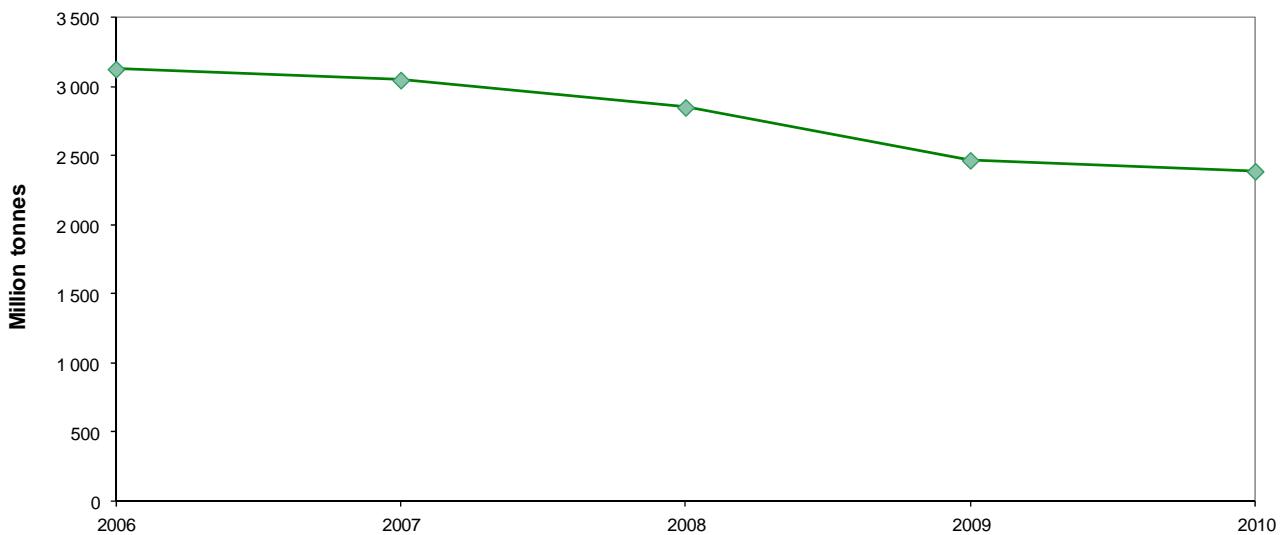
tonnes

Country	2006	2007	2008	2009	2010
Switzerland					
Sand and gravel	50 000 000	* 50 000 000	* 37 000 000	* 37 000 000	* 37 000 000
Crushed rock	5 700 000	* 5 700 000	* 5 000 000	* 5 000 000	* 5 000 000
United Kingdom					
Sand and gravel	92 107 000	93 236 000	85 473 000	66 226 000	61 700 000
Crushed rock (f)	145 578 000	148 534 000	127 996 000	104 626 000	94 203 000
EU34 Total	3 134 000 000	3 093 000 000	2 889 000 000	2 508 000 000	2 387 000 000

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 Prodcom codes 0812 1190, 0812 1210, 0812 1230, 0812 1250 and 0812 1290
- (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 EU34 countries produce sand and gravel and crushed rock
- (5) Production from many small operations is 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

EU34 Production of aggregates 2006 - 10



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

tonnes

Country	2006	2007	2008	2009	2010
Austria	3 086 027	3 394 988	3 130 358	2 634 211	2 828 621
Belgium	15 452 435	15 588 032	15 097 819	13 354 957	12 427 043
Bulgaria	282 018	330 088	268 120	76 129	262 166
Croatia	2 390 517	3 334 229	2 950 159	3 087 216	1 858 348
Cyprus	5 118	148 994	124 576	38 469	—
Czech Republic	772 913	716 787	699 987	597 101	683 786
Denmark	973 497	1 194 349	846 490	955 036	907 149
Estonia	563 697	573 530	701 067	503 048	810 298
Finland	735 655	837 957	850 685	645 609	1 396 025
France	8 928 358	8 383 027	8 565 175	7 586 323	8 142 237
Germany	25 912 337	29 024 954	29 470 321	27 973 749	25 337 558
Greece	48 990	49 781	50 453	59 216	60 851
Hungary	961 775	1 889 989	1 382 695	1 294 700	1 191 521
Iceland	14 236	35 965	41 024	29 712	44 512
Ireland, Republic of	230 125	85 146	255 295	40 626	13 318
Italy	1 720 142	1 482 346	1 522 229	1 308 016	1 507 704
Latvia	11 618	32 783	54 321	121 260	101 406
Lithuania	871 522	1 053 802	943 673	163 850	57 255
Luxembourg	107 278	191 762	451 026	132 842	160 773
Montenegro	502 500	257 653	151 614	127 600	112 522
Netherlands	9 100 000	9 300 000	10 400 000	7 140 000	7 930 000
Norway	14 357 509	16 183 927	16 683 638	13 843 722	16 877 617
Poland	1 671 890	1 378 634	1 237 976	902 193	1 031 013
Portugal	101 721	120 914	44 174	101 421	67 505
Romania	51 793	111 803	60 190	160 241	360 161
Slovakia (a)	* 715 000	* 744 000	* 1 388 000	* 768 000	* 598 000
Slovenia	324 830	437 208	402 033	451 012	488 256
Spain	2 489 305	2 042 075	1 478 362	1 060 445	1 153 923
Sweden	2 333 174	2 307 614	3 049 601	1 867 320	2 248 515
Switzerland	273 603	486 288	202 846	194 006	193 312
Turkey	586 393	73 162	1 183 150	908 010	955 765
United Kingdom	14 631 060	14 048 387	13 008 608	10 714 861	10 992 431

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
- (2) Exports include marine dredged sand and gravel landed at foreign ports

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

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

tonnes

Country	2006	2007	2008	2009	2010
Austria	2 622 855	3 961 223	3 447 013	2 924 359	2 284 169
Belgium	22 303 782	21 959 821	25 172 064	22 175 332	22 484 726
Bulgaria	19 383	41 782	41 256	22 189	14 843
Croatia	3 867 559	4 583 241	4 618 579	1 871 236	926 574
Cyprus	11 605	15 497	28 990	11 564	2 648
Czech Republic	690 730	252 049	333 726	398 613	353 419
Denmark	3 151 321	3 077 714	3 346 209	2 932 586	2 777 604
Estonia	932 688	929 218	988 981	1 006 376	1 395 122
Finland	254 665	326 347	280 600	330 108	284 066
France	12 064 403	11 381 954	11 214 300	10 907 837	9 838 820
Germany	11 147 034	11 913 688	13 369 162	12 866 444	11 936 108
Greece	45 081	341 376	425 485	177 887	13 538
Hungary	211 927	455 416	806 281	446 187	473 730
Ireland, Republic of	1 687 279	1 729 337	1 368 008	781 470	652 594
Italy	4 655 740	4 967 745	4 139 144	3 654 570	3 057 378
Latvia	1 412 127	1 663 783	2 033 701	565 877	467 414
Lithuania	1 214 058	1 333 772	1 301 091	695 973	849 462
Luxembourg	2 267 636	1 850 515	1 370 991	1 757 604	2 097 069
Malta	11 666	29 929	25 817	47 363	37 324
Montenegro	29 615	50 573	74 112	44 639	26 703

Aggregates

Imports continued

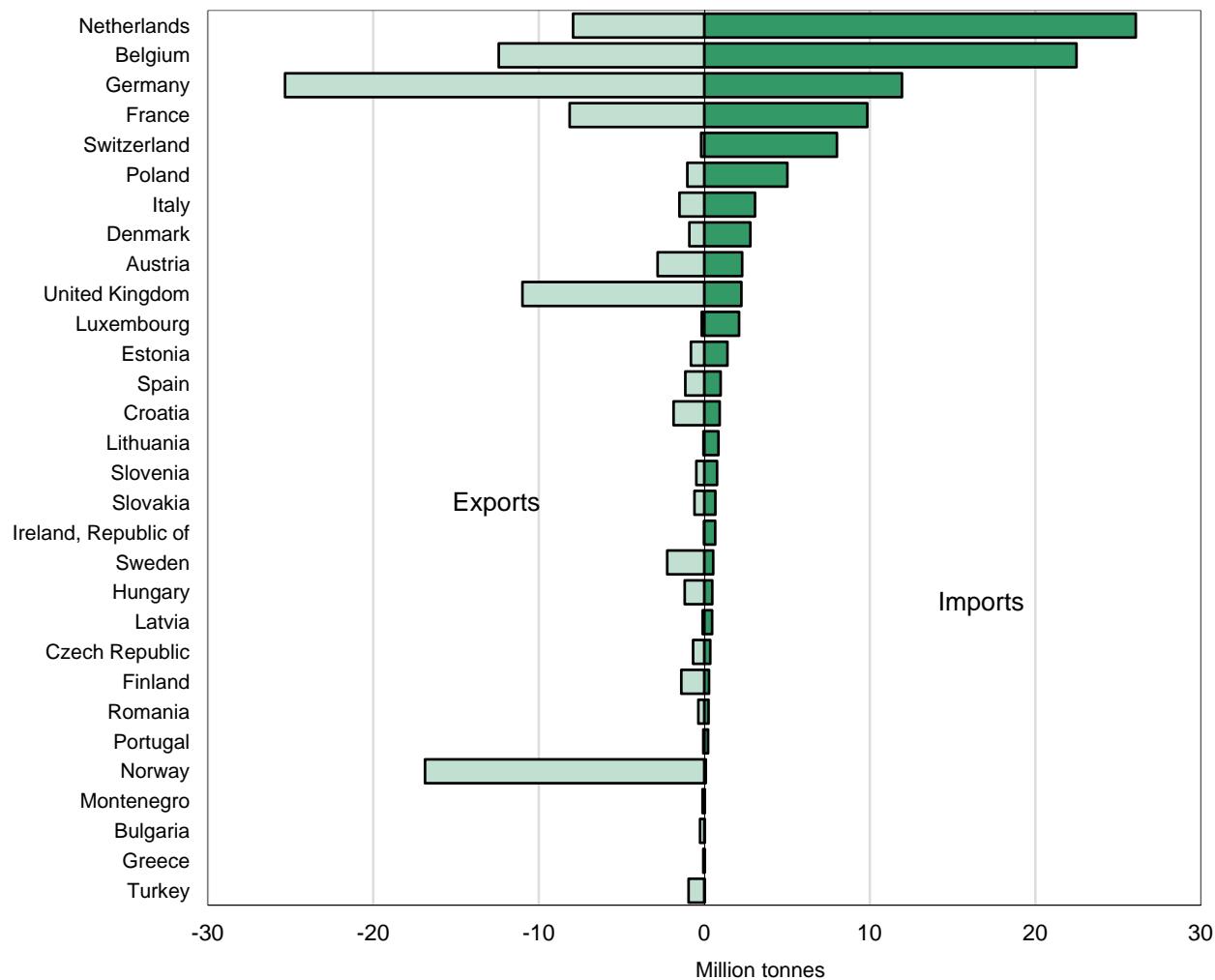
tonnes

Country	2006	2007	2008	2009	2010
Netherlands	25 238 254	26 662 441	26 922 364	* 25 007 000	26 065 573
Norway	66 708	72 906	80 161	66 884	82 706
Poland	2 976 252	5 566 874	5 868 908	5 349 230	5 014 564
Portugal	488 917	731 709	194 088	175 576	224 514
Romania	332 190	352 576	351 123	205 133	248 484
Slovakia	665 844	633 400	755 496	692 609	666 380
Slovenia	863 881	3 113 823	1 424 240	1 165 083	771 814
Spain	762 652	1 396 928	1 035 555	889 156	982 128
Sweden	1 135 048	1 068 840	864 988	355 022	533 148
Switzerland	6 700 038	7 371 907	7 256 472	7 246 506	8 010 059
Turkey	4 661	3 843	4 590	3 636	9 372
United Kingdom	2 905 198	2 806 448	2 631 986	2 054 272	2 239 950

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 - EU34 trade in 2010



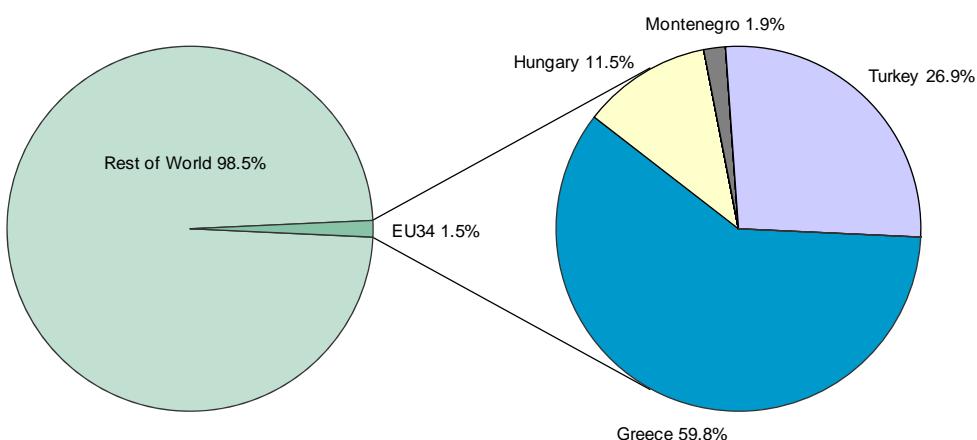
Bauxite

Bauxite is the only source of aluminium that is currently mined and it is formed by deep chemical weathering of rocks in tropical to sub-tropical climates. There is limited EU34 production, leaving a very strong dependence on imports from countries outside the EU34.

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 2010, with 31 per cent of the total world output. Greece was the largest producer within the EU34, with 60 per cent of EU34 production (although this is still less than one per cent of the world total).

EU34 Production of bauxite 2010



Production of bauxite

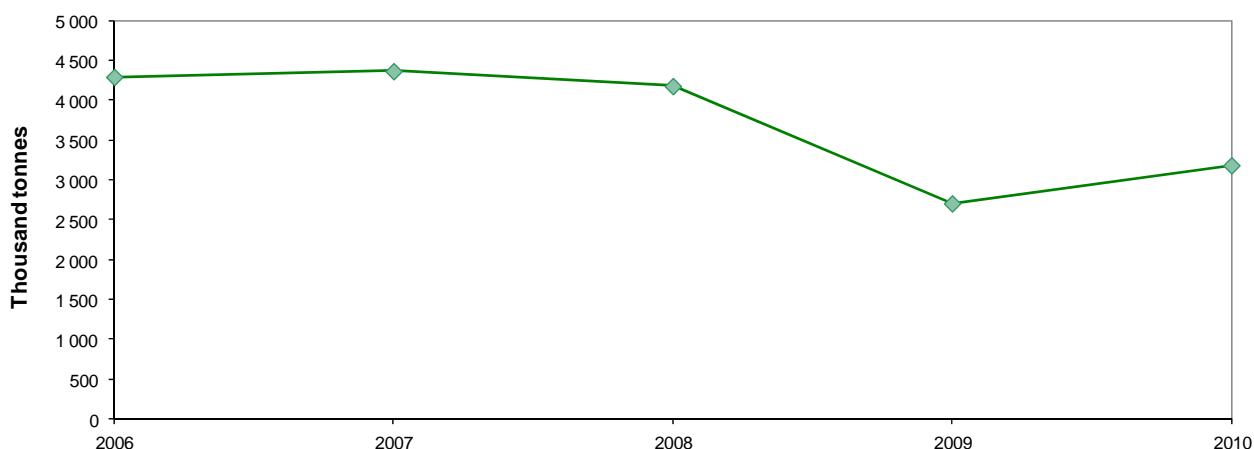
tonnes

Country	2006	2007	2008	2009	2010
France	160 000	160 000	* —	* —	* —
Greece	2 162 900	2 125 900	2 174 000	1 935 000	1 902 000
Hungary	538 258	546 310	511 337	317 000	365 000
Montenegro	659 370	667 053	671 811	45 779	61 205
Turkey	771 227	863 404	818 928	406 700	855 000
EU34 Total	4 292 000	4 363 000	4 176 000	2 704 000	3 183 000

Note(s)

(1) This table includes production of refractory bauxite

EU34 Production of bauxite 2006 - 10

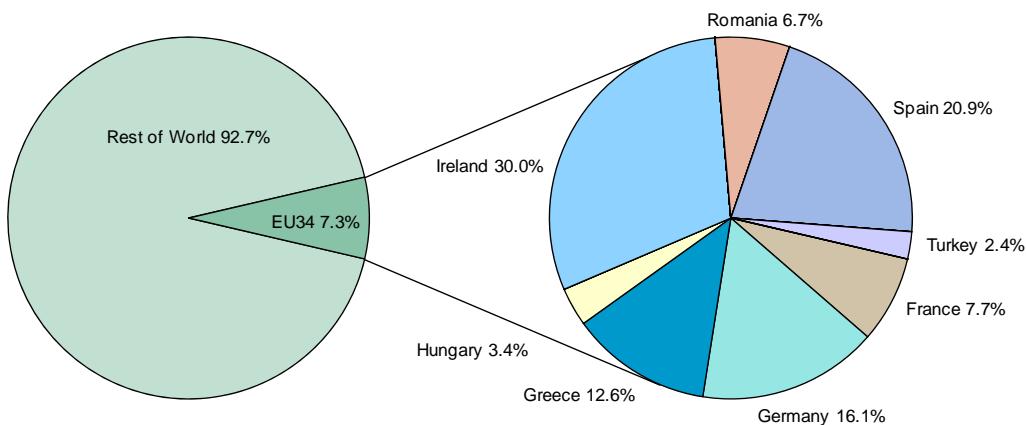


Alumina

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 2010, with an increase in output of 22 per cent compared to 2009, representing 34 per cent of the total world production. The EU34 produced 6.2 million tonnes in 2010, representing seven per cent of world production.

EU34 Production of alumina 2010



Production of alumina

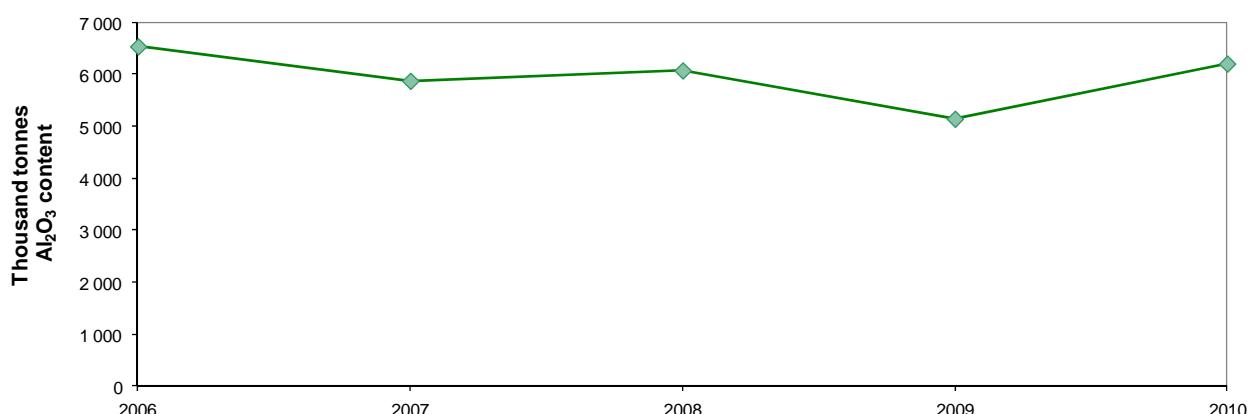
tonnes (Al_2O_3 content)

Country	2006	2007	2008	2009	2010
France	* 636 000	* 600 000	630 000	348 000	481 000
Germany	* 850 000	* 900 000	* 1 000 000	1 154 000	* 1 000 000
Greece	780 000	788 900	807 500	796 000	785 000
Hungary	* 301 000	* 301 000	* 299 000	* 185 000	214 000
Ireland, Republic of	1 800 000	1 800 000	1 890 000	1 240 000	1 864 000
Italy	1 090 000	1 327 000	1 045 000	92 000	—
Montenegro	236 740	240 186	220 426	58 528	—
Romania	622 083	22 830	344	44 000	414 000
Spain	* 1 400 000	1 300 000	1 300 000	* 1 300 000	* 1 300 000
Turkey	150 117	163 435	* 150 000	* 80 000	* 150 000
EU34 Total	7 866 000	7 443 000	7 342 000	5 298 000	6 208 000

Note(s)

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

EU33 Production of alumina 2006 - 10

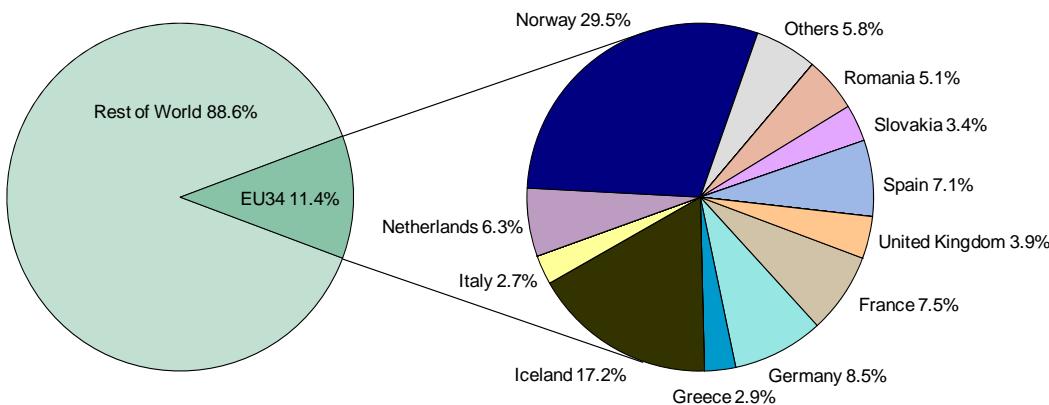


Aluminium metal

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 2010, with an increase in output of 26 per cent compared to 2009, representing 39 per cent of world production. The EU34 produced 4.7 million tonnes, representing 11.4 per cent of world production.

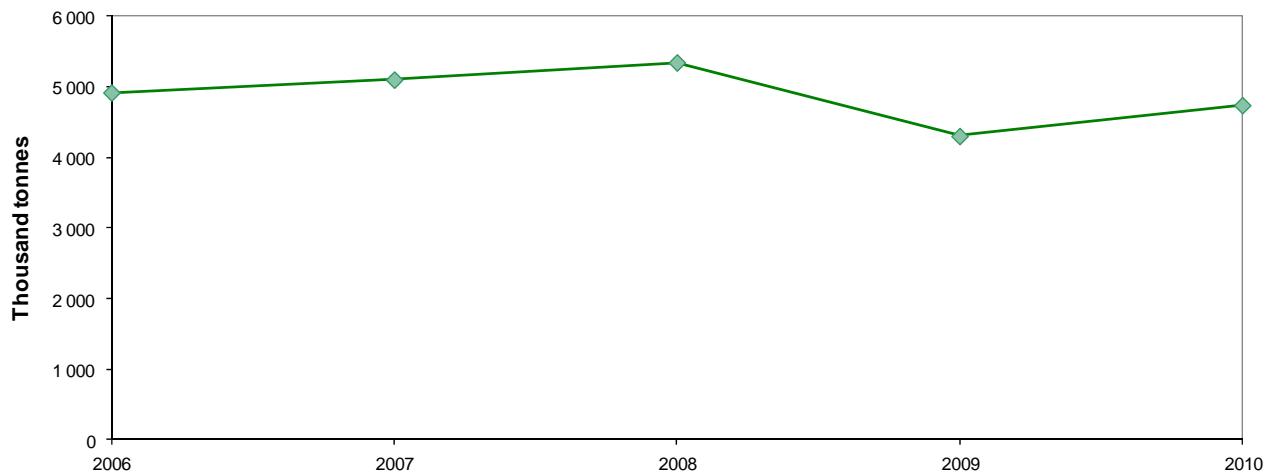
EU34 Production of primary aluminium 2010



Production of primary aluminium

tonnes

Country	2006	2007	2008	2009	2010
France	442 879	430 159	389 000	345 000	356 000
Germany	515 539	551 000	605 880	291 750	402 480
Greece	164 500	167 937	162 339	134 737	137 000
Hungary	300	—	—	—	—
Iceland	328 424	446 297	761 204	804 605	812 980
Italy	194 200	179 500	186 400	165 800	129 500
Montenegro	121 762	135 151	111 513	63 960	82 043
Netherlands	285 317	296 900	317 000	306 000	* 300 000
Norway	1 383 000	1 362 000	1 368 000	1 090 000	1 400 000
Poland	42 000	43 000	31 000	—	—
Romania	262 056	283 449	288 156	228 630	241 000
Slovakia	158 289	160 461	162 995	149 604	163 000
Slovenia	118 100	111 016	83 300	35 148	40 177
Spain	367 400	405 100	405 800	334 600	335 000
Sweden	101 668	99 842	81 913	69 708	93 000
Switzerland	12 000	—	—	—	—
Turkey	60 000	63 400	61 100	30 000	60 000
United Kingdom	360 325	364 595	326 900	252 000	186 000
EU34 Total	4 918 000	5 100 000	5 343 000	4 302 000	4 738 000

EU34 Production of primary aluminium 2006 - 10**Exports of bauxite, alumina and aluminium**

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Bauxite	765	1 225	1 202	546	1
Unwrought	7 630	8 294	4 120	2 332	3 236
Unwrought alloys	119 058	111 571	109 757	98 966	151 559
Scrap	80 200	91 960	90 825	118 028	122 057
Belgium					
Bauxite	53 680	75 904	53 444	44 530	48 683
Alumina	18 151	13 629	4 858	5 666	7 516
Unwrought	210 559	164 800	160 684	121 708	257 888
Unwrought alloys	29 870	37 009	32 273	22 665	14 204
Scrap	186 614	188 642	179 137	219 846	274 819
Bulgaria					
Unwrought alloys	11 692	10 290	8 931	2 775	6 798
Scrap	29 245	23 577	18 478	20 577	31 728
Croatia					
Scrap	19 832	20 886	17 769	15 779	22 346
Cyprus					
Scrap	4 880	4 745	4 409	5 934	6 896
Czech Republic					
Unwrought (a)	45 876	54 457	53 682	59 913	51 307
Scrap	53 986	61 067	59 196	49 251	71 467
Denmark					
Alumina	3 470	5 471	5 300	4 002	4 661
Unwrought alloys	31 768	36 831	32 499	7 505	9 515
Scrap	62 734	50 164	56 727	70 649	73 402
Estonia					
Unwrought (a)	3 013	8 083	27 839	8 357	4 132
Scrap	8 263	10 379	19 895	6 958	65 948
Finland					
Unwrought alloys	11 411	12 924	14 239	8 939	15 346
Scrap	25 921	38 364	37 345	34 910	33 304
France					
Bauxite	46 042	26 661	12 295	9 296	12 116
Alumina	224 866	276 207	319 388	178 570	270 769
Alumina hydrate	168 250	146 531	130 881	100 293	131 035
Unwrought	65 943	45 503	46 364	91 682	51 275
Unwrought alloys	148 253	136 803	139 176	125 580	166 807
Scrap	345 107	380 708	344 436	345 372	405 847

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Germany					
Bauxite	30 772	36 361	33 636	16 591	26 178
Alumina	313 586	282 245	305 514	382 750	424 236
Alumina hydrate	717 433	672 561	634 635	461 601	551 817
Unwrought	72 132	61 090	75 386	67 356	111 815
Unwrought alloys	360 157	361 917	359 628	288 023	361 396
Scrap	675 261	770 042	702 739	753 218	823 810
Greece					
Bauxite	912 093	1 086 405	787 160	409 508	436 513
Alumina	457 726	715 003	412 385	412 888	224 607
Alumina hydrate	8 239	21 716	29 552	74 996	99 574
Unwrought	64 487	27 195	26 083	17 533	20 727
Unwrought alloys	18 804	67 732	64 998	57 668	68 924
Scrap	19 105	13 566	13 261	14 681	32 250
Hungary					
Alumina	170 030	178 984	168 347	89 857	112 819
Alumina hydrate	90 705	98 187	102 652	88 515	92 011
Unwrought (a)	28 884	27 580	10 981	26 176	41 719
Scrap	34 986	29 228	22 098	35 060	51 508
Iceland					
Unwrought	303 288	446 297	760 764	805 450	812 981
Scrap	4 603	3 872	12 483	4 467	10 136
Ireland, Republic of					
Bauxite	9 210	11 167	1 438	2 619	1
Alumina	1 534 845	1 652 967	1 709 302	895 034	1 542 563
Alumina hydrate	115 676	10 011	88 039	95 548	124 803
Unwrought alloys	4 637	5 425	3 711	2 455	2 576
Scrap	18 784	22 397	21 041	18 257	22 810
Italy					
Bauxite	12 082	49 989	26 718	4 585	66 218
Alumina	748 594	696 603	571 090	61 223	17 056
Alumina hydrate	26 668	34 521	35 538	1 243	4 346
Unwrought	20 315	18 971	18 249	30 019	49 442
Unwrought alloys	73 137	104 361	96 798	122 294	220 237
Scrap	50 024	42 052	56 214	82 055	107 131
Latvia					
Unwrought alloys	18 180	19 281	17 012	11 772	14 493
Scrap	1 767	2 416	4 203	4 419	5 461
Lithuania					
Unwrought alloys	3 410	3 453	3 994	2 614	7 754
Scrap	5 640	5 701	5 280	4 796	5 298
Luxembourg					
Alumina	836	1 072	734	420	10
Unwrought alloys	225 260	231 110	143 237	85 636	157 473
Scrap	19 001	19 630	11 164	3 785	6 034
Macedonia					
Scrap	2 788	1 795	2 043	1 514	2 351
Malta					
Scrap	1 221	1 136	1 441	1 361	1 865
Montenegro					
Bauxite	114 899	101 182	101 182	17 122	85 623
Unwrought (a)	119 761	122 144	92 372	82 877	76 891
Scrap	1 264	1 607	2 692	1 570	2 045
Netherlands					
Bauxite	107 660	41 170	129 186	* 59 000	26 997
Alumina	301 767	542 794	257 169	62 131	8 665
Alumina hydrate	45 480	151 641	85 713	65 279	76 244
Unwrought	370 471	490 373	332 871	218 141	424 733
Unwrought alloys	341 439	341 670	361 012	191 239	320 263
Scrap	334 426	317 877	264 142	200 650	317 038
Norway					
Unwrought	126 841	113 285	105 729	106 593	74 941
Unwrought alloys	1 412 569	1 496 556	1 484 854	1 249 830	1 420 662
Scrap	42 804	41 296	41 476	80 729	77 216

Aluminium and Bauxite

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Poland					
Bauxite	1 693	596	536	833	448
Unwrought (a)	80 266	78 187	82 242	66 065	103 803
Scrap	107 939	113 649	123 468	102 757	123 503
Portugal					
Unwrought alloys	152 591	130 636	127 150	90 869	102 856
Scrap	38 026	41 603	40 020	32 481	51 888
Romania					
Bauxite	129	47	526	161	1 513
Alumina	137 753	5 191	0	99	25 559
Unwrought	12 672	23 193	61 638	50 496	10 312
Unwrought alloys	10 110	9 080	6 690	5 898	51 556
Scrap	11 132	14 332	16 021	20 775	17 733
Slovakia					
Unwrought	66 893	61 319	44 845	77 013	44 989
Unwrought alloys	93 141	118 286	129 771	110 484	111 769
Scrap	9 876	10 421	10 109	9 441	10 260
Slovenia					
Bauxite	2 650	8 013	450	2 537	6 665
Alumina	241 631	243 062	258 238	242 215	239 729
Unwrought alloys	133 005	123 041	88 038	61 800	78 619
Scrap	27 584	30 132	26 863	23 382	33 972
Spain					
Bauxite	3 647	6 057	5 623	4 951	3 628
Alumina	511 992	539 739	671 009	612 933	299 703
Alumina hydrate	258 854	199 679	236 855	163 303	126 398
Unwrought	8 245	15 999	39 359	19 816	26 693
Unwrought alloys	128 262	125 008	123 577	230 539	148 884
Scrap	41 923	34 520	109 493	46 307	66 976
Sweden					
Alumina	14 481	14 278	13 919	14 464	19 037
Unwrought	910	735	6 307	2 143	195
Unwrought alloys	112 575	89 591	89 190	145 554	190 394
Scrap	67 879	107 946	106 581	89 940	88 070
Switzerland					
Alumina	1 242	281	5 767	1 240	854
Unwrought (a)	21 257	22 645	9 938	14 444	20 954
Scrap	140 657	139 599	125 769	116 520	131 819
Turkey					
Bauxite	89 764	254 689	262 708	103 317	331 458
Alumina	73 707	142 557	118 915	77 727	190 094
Unwrought	38 690	47 574	50 056	26 337	42 090
Unwrought alloys	9 072	13 012	10 827	9 368	36 994
Scrap	14 275	13 415	16 218	14 483	14 291
United Kingdom					
Bauxite	28 636	4 276	6 121	3 873	3 140
Alumina	9 979	9 016	9 517	16 810	5 879
Alumina hydrate (b)	* 1 900	* 5 200	* 5 300	* 4 400	* 2 100
Unwrought	17 530	30 631	20 690	17 688	43 665
Unwrought alloys	331 598	269 523	265 018	305 849	364 612
Scrap	385 211	906 831	872 988	422 574	443 466

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	2006	2007	2008	2009	2010
Austria					
Bauxite	25 291	16 717	21 727	2 370	8 489
Alumina	45 777	49 728	55 639	27 193	47 681
Alumina hydrate	12 821	16 056	20 205	13 219	12 914
Unwrought	113 047	140 286	154 792	103 145	177 751
Unwrought alloys	235 053	250 209	218 902	175 583	239 493
Scrap	157 256	161 995	170 315	168 055	268 845
Belgium					
Bauxite	59 874	85 954	88 892	40 837	75 600
Alumina	28 030	27 079	13 959	7 265	19 028
Alumina hydrate	45 723	45 870	34 834	29 635	34 978
Unwrought	451 309	437 146	319 471	322 792	517 946
Unwrought alloys	286 345	317 701	236 550	126 490	193 103
Scrap	197 942	193 852	196 947	204 621	228 517
Bulgaria					
Alumina	2 039	2 368	1 370	1 859	2 887
Unwrought	46 154	39 850	42 738	39 759	44 468
Unwrought alloys	20 490	19 617	18 557	16 050	27 444
Scrap	2 179	3 554	4 028	3 014	6 897
Croatia					
Bauxite	80 441	115 367	107 237	72 103	85 634
Alumina	1 405	2 431	2 440	1 021	936
Unwrought	53 021	54 067	57 828	37 828	50 354
Unwrought alloys	18 893	22 039	20 786	28 251	29 270
Cyprus					
Unwrought alloys	12 481	13 868	13 408	8 721	9 211
Czech Republic					
Bauxite	24 829	26 865	17 698	9 857	33 794
Alumina	24 078	30 523	28 245	5 995	7 407
Alumina hydrate	9 782	7 834	6 916	6 672	9 547
Unwrought	74 392	82 910	68 362	62 972	76 945
Unwrought alloys	104 238	119 773	124 643	108 231	135 648
Scrap	48 937	63 508	58 424	50 379	61 802
Denmark					
Bauxite	9 025	6 572	7 317	8 108	8 364
Alumina	28 709	25 643	27 582	21 968	22 484
Unwrought (a)	79 573	86 389	85 420	61 259	79 479
Scrap	64 803	66 038	70 726	5 321	5 175
Estonia					
Scrap	1 338	808	485	535	4 495
Unwrought (a)	7 021	3 035	26 545	5 956	3 176
Finland					
Bauxite	6 366	4 909	10 461	1 584	9 294
Alumina	2 327	3 296	2 350	1 733	2 401
Alumina hydrate	31 024	37 163	22 243	20 614	29 607
Unwrought	1 145	1 213	1 332	1 204	2 008
Unwrought alloys	39 755	49 299	41 635	29 303	37 539
Scrap	14 906	19 051	21 978	10 998	15 466
France					
Bauxite	1 664 642	2 001 899	1 788 358	1 024 569	984 804
Alumina	667 146	710 029	722 371	849 798	734 935
Alumina hydrate	45 085	46 584	51 289	46 113	47 336
Unwrought	198 042	147 693	113 771	87 130	103 937
Unwrought alloys	394 929	449 505	396 382	311 287	364 962
Scrap	208 142	191 897	197 876	216 872	260 871
Germany					
Bauxite	2 143 631	3 141 693	2 995 241	2 069 109	2 005 053
Alumina	912 564	790 515	1 017 746	518 456	661 379
Alumina hydrate	219 035	266 042	241 736	168 216	260 488
Unwrought	754 311	786 506	693 075	495 511	799 780
Unwrought alloys	1 318 713	1 444 289	1 370 179	1 157 271	1 591 991
Scrap	539 367	613 084	543 839	362 582	479 413

Aluminium and Bauxite

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Greece					
Bauxite	268 899	376 304	226 374	351 677	314 423
Alumina	71 073	283 255	38 828	963	1 546
Unwrought	125 541	125 327	129 407	110 311	153 771
Unwrought alloys	62 828	73 561	63 670	32 252	66 134
Scrap	20 030	50 470	28 960	17 339	43 866
Hungary					
Bauxite	243 873	319 681	297 832	178 031	244 095
Alumina	1 968	2 899	8 997	9 246	22 660
Alumina hydrate	590	451	508	3 352	6 856
Unwrought	109 506	132 695	122 319	100 897	146 221
Unwrought alloys	72 573	149 299	107 123	79 437	165 833
Scrap	49 076	37 204	56 347	30 212	43 720
Iceland					
Alumina	663 691	814 258	1 620 531	1 557 309	1 612 188
Unwrought (a)	291	293	439	1 461	6 127
Ireland, Republic of					
Bauxite	3 368 967	4 144 231	3 009 615	2 786 723	4 111 457
Alumina	7 470	9 268	9 579	4 711	4 903
Unwrought (a)	2 756	1 261	309	287	368
Italy					
Bauxite	2 618 296	2 374 609	2 417 499	36 975	62 666
Alumina	137 469	148 384	144 473	88 864	252 028
Alumina hydrate	156 231	166 453	143 217	142 005	198 253
Unwrought	481 919	534 385	445 882	284 779	432 393
Unwrought alloys	504 142	545 052	436 207	310 560	488 002
Scrap	366 623	432 780	377 441	268 836	372 686
Latvia					
Scrap	6 505	6 837	7 677	5 974	7 828
Lithuania					
Bauxite	...	1	...	6 922	4 348
Alumina	11 176	13 304	10 282	1 815	16 411
Scrap	1 964	3 380	1 887	888	2 460
Luxembourg					
Alumina	2 166	2 851	2 225	1 403	1 117
Unwrought	59 262	47 982	52 669	33 315	62 504
Unwrought alloys	11 293	12 076	9 320	4 480	7 362
Scrap	198 508	186 465	123 407	48 091	128 632
Macedonia					
Unwrought (a)	2 941	3 930	3 446	2 164	2 839
Scrap	496	663	485	1 341	1 554
Montenegro					
Alumina	9 152	1 333	10	55 777	157 753
Netherlands					
Bauxite	118 203	108 088	182 711	68 038	113 499
Alumina	440 195	706 255	689 724	153 891	692 413
Alumina hydrate	205 902	190 351	178 940	52 798	167 596
Unwrought	650 035	713 441	248 386	134 950	384 724
Unwrought alloys	321 582	358 930	479 786	284 410	462 371
Scrap	197 160	204 117	210 203	88 053	184 066
Norway					
Bauxite	11 384	3 446	10 232	15 444	8 645
Alumina	2 730 064	2 535 547	2 753 105	2 069 424	2 144 519
Alumina hydrate	43 721	48 560	50 401	45 252	35 379
Unwrought	352 293	435 126	381 638	240 409	512 340
Unwrought alloys	34 783	73 058	58 995	95 120	68 086
Scrap	26 326	32 024	37 386	26 598	38 039
Poland					
Bauxite	61 638	71 598	59 907	49 033	48 664
Alumina	114 800	120 768	126 143	27 626	29 920
Alumina hydrate	27 358	27 634	25 334	23 083	31 406
Unwrought	76 996	105 281	71 563	67 561	125 567
Unwrought alloys	167 914	192 930	195 072	144 983	192 393
Scrap	52 498	59 623	67 176	67 408	84 622

Imports continued

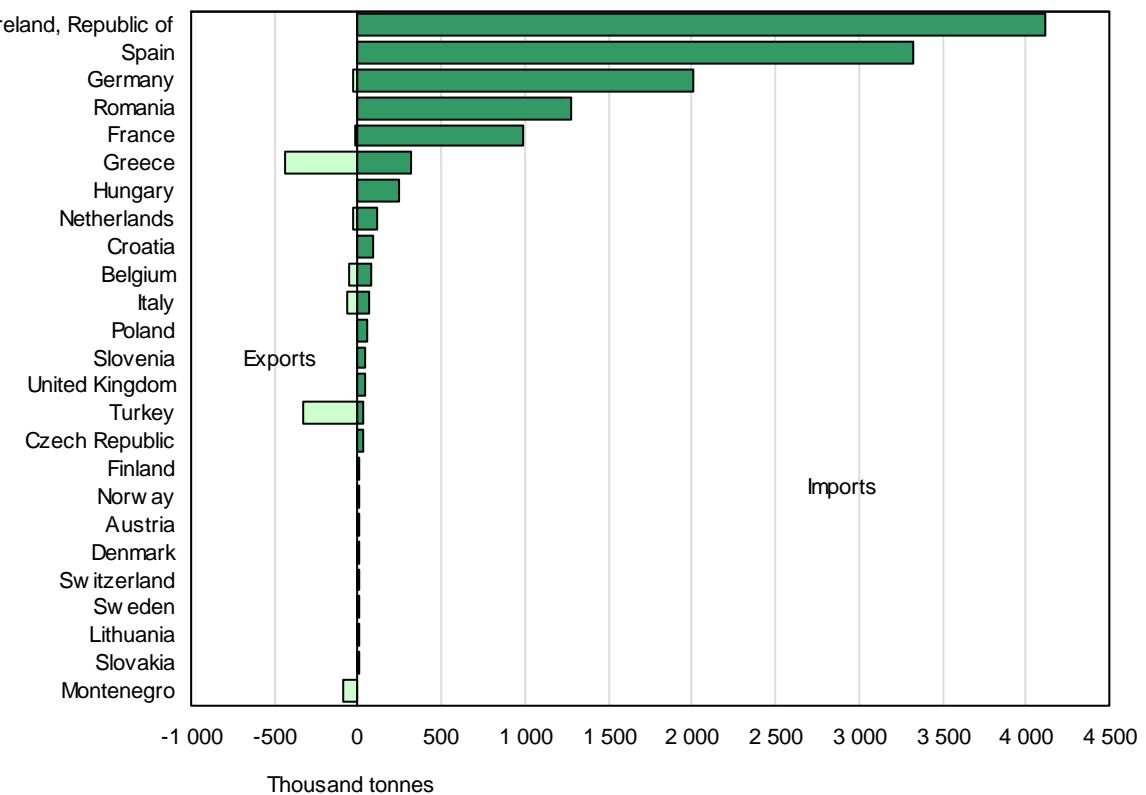
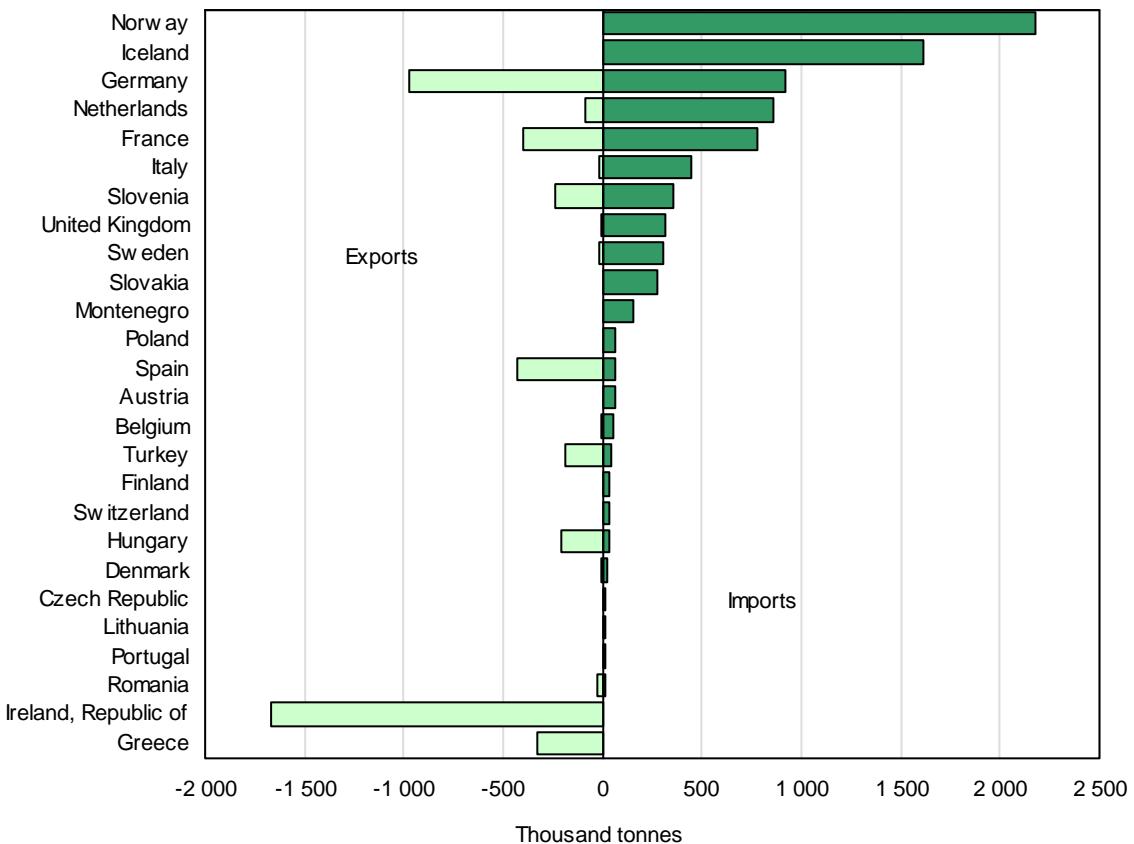
tonnes

Country	2006	2007	2008	2009	2010
Portugal					
Alumina	7 760	9 325	9 750	13 742	14 862
Unwrought	16 292	16 859	17 732	15 200	20 152
Unwrought alloys	237 617	214 990	214 614	149 759	170 057
Scrap	1 487	3 994	2 409	15 819	10 183
Romania					
Bauxite	1 597 023	75 934	45 527	104 404	1 277 587
Alumina	28 342	482 375	487 304	353 846	1 928
Alumina hydrate	15 252	16 927	17 822	7 996	10 412
Unwrought (a)	4 151	10 191	16 416	17 383	33 874
Scrap	436	3 833	598	3 838	83 381
Slovakia					
Bauxite	5 886	7 524	5 778	5 443	4 233
Alumina	314 576	311 914	311 891	288 753	270 786
Scrap	8 550	8 748	4 638	1 760	2 098
Unwrought (a)	31 521	52 718	41 681	27 853	42 273
Slovenia					
Bauxite	51 064	63 229	40 006	13 966	41 846
Alumina	480 454	466 163	438 579	302 520	328 453
Alumina hydrate	24 102	28 628	27 121	20 629	27 252
Unwrought	48 337	65 589	67 405	62 162	87 848
Unwrought alloys	60 484	58 215	50 389	34 530	65 950
Scrap	50 865	52 338	51 319	37 677	51 159
Spain					
Bauxite	3 007 043	3 547 201	3 618 306	3 509 294	3 325 099
Alumina	56 961	53 579	50 417	22 239	31 527
Alumina hydrate	49 725	49 451	41 614	30 522	29 317
Unwrought	95 436	122 303	82 512	95 461	119 589
Unwrought alloys	303 607	328 314	281 270	162 026	229 036
Scrap	103 839	123 074	110 745	63 517	111 942
Sweden					
Bauxite	2 846	30 099	18 761	10 755	6 660
Alumina	201 496	43 101	161 638	109 806	211 393
Alumina hydrate	56 535	94 218	95 834	81 026	95 073
Unwrought	7 959	46 431	47 534	39 248	35 506
Unwrought alloys	135 270	159 628	144 343	124 277	188 198
Scrap	32 198	36 838	40 125	30 093	48 508
Switzerland					
Bauxite	5 901	5 850	12 439	8 360	6 718
Alumina	21 431	10 745	11 036	9 074	10 662
Alumina hydrate	18 333	17 875	17 235	15 269	20 697
Unwrought	111 780	136 214	127 018	108 096	148 099
Unwrought alloys	79 666	78 916	62 962	50 341	84 113
Scrap	26 711	32 716	31 728	23 195	33 341
Turkey					
Bauxite	52 627	53 202	39 256	17 350	35 652
Alumina	15 237	8 598	18 232	10 394	15 772
Alumina hydrate	7 942	4 115	21 275	15 269	27 721
Unwrought	245 876	296 098	327 525	358 748	460 915
Unwrought alloys	168 498	193 702	270 871	201 124	281 588
Scrap	7 061	5 634	16 868	14 215	24 952
United Kingdom					
Bauxite	86 882	48 741	57 971	37 461	41 650
Alumina	823 115	787 218	705 033	352 250	229 158
Alumina hydrate	101 126	112 287	110 503	98 516	87 278
Unwrought	169 259	201 262	160 797	304 621	138 975
Unwrought alloys	245 496	93 145	93 210	43 601	62 686
Scrap	137 626	158 827	145 819	117 651	126 584

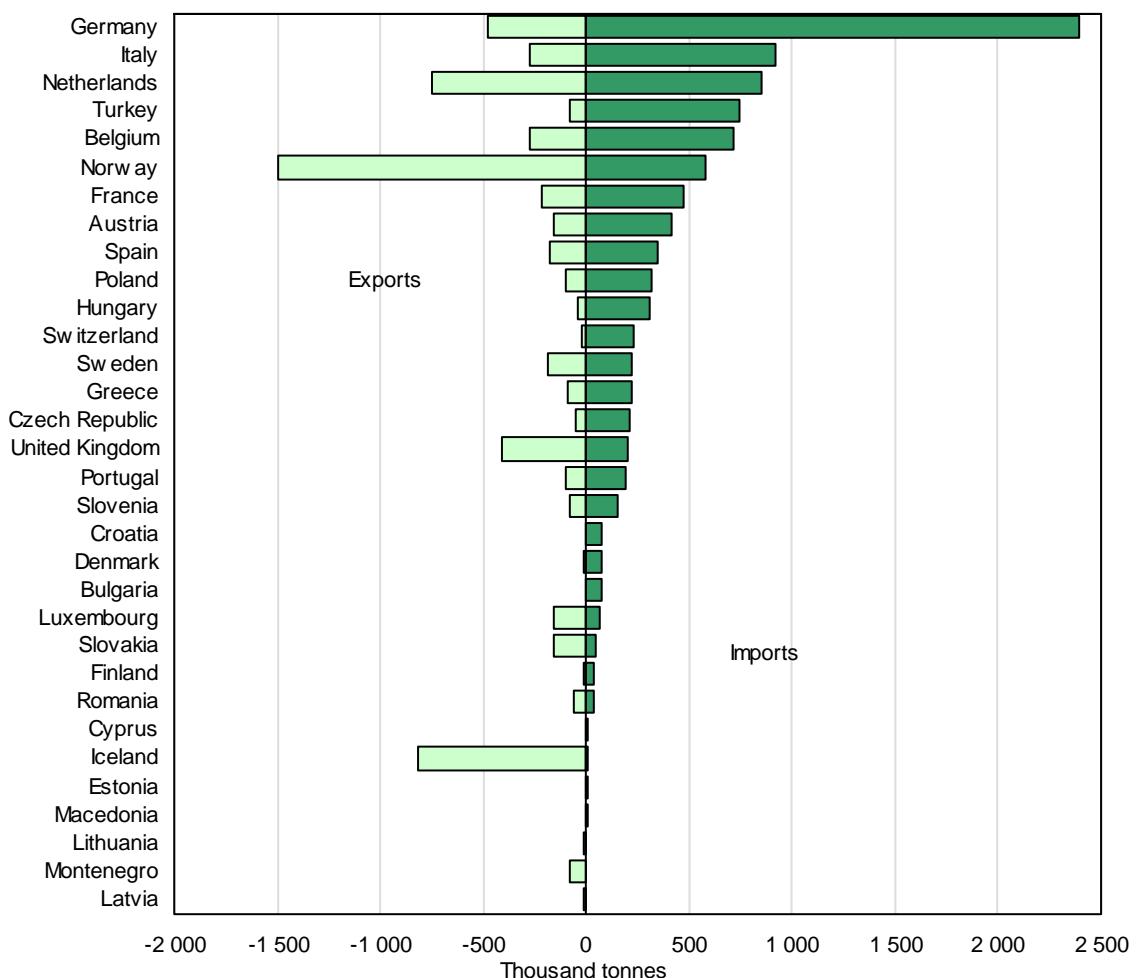
Note(s)

- (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 - EU34 trade in 2010**Alumina and alumina hydrate - EU34 trade in 2010**

Aluminium metal - EU34 trade in 2010



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 2010, with 88 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 EU34.

Mine production of antimony

tonnes (metal content)

Country	2006	2007	2008	2009	2010
Turkey	* 1 100	* 1 200	* 1 300	* 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	2006	2007	2008	2009	2010
Belgium					
Ores and concentrates	360	301	228	530	433
Metal	1 580	974	494	533	776
Oxide	12 661	11 643	9 636	8 811	10 599
Czech Republic					
Oxide	108	139	133	89	71
France					
Metal	53	19	44	34	145
Oxide	4 964	6 109	6 261	6 788	6 853
Germany					
Metal	30	141	33	101	132
Oxide	892	1 130	932	448	961
Greece					
Metal	160	143	81	—	...
Italy					
Ores and concentrates	250	355	386	566	960
Oxide	254	237	569	391	226
Netherlands					
Metal	886	308	185	171	219
Oxide	780	496	346	285	433
Poland					
Metal	36	22	25	65	27
Portugal					
Metal	646	267	60	119	138
Spain					
Metal	21	17	143	62	19
Oxide	2 031	246	1 023	894	1 716
Sweden					
Metal	2	1	15	489	4
Turkey					
Ores and concentrates	679	819	1 000	1 408	2 765
Metal	5	28	0	8	21
United Kingdom					
Metal	27	21	35	75	77
Oxide	397	379	558	407	490

Imports of antimony

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal	51	104	63	64	37
Oxide	271	277	245	192	249
Belgium					
Metal	11 543	11 904	8 837	7 511	10 280
Oxide	2 524	2 218	801	624	904
Bulgaria					
Metal	34	100	35	40	45
Czech Republic					
Metal	82	64	131	55	75
Oxide	503	604	521	209	379
Finland					
Oxide	256	281	160	101	116
France					
Metal	8 919	8 568	9 078	7 682	9 068
Oxide	2 092	3 315	1 923	1 277	1 577
Germany					
Metal	421	612	700	552	494
Oxide	8 305	8 527	8 672	5 072	7 986
Greece					
Ores and concentrates	131	83	27	6	—
Metal	0	21	63	85	74
Hungary					
Oxide	139	192	144	173	156
Italy					
Ores and concentrates	829	851	1 171	935	1 378
Metal	279	399	300	198	233
Oxide	6 061	5 950	6 168	4 602	5 460
Lithuania					
Oxide	36	61	110	117	102
Luxembourg					
Oxide	57	124	119	126	87
Netherlands					
Metal	651	699	234	150	314
Oxide	35 127	3 783	51 439	2 257	57 454
Norway					
Metal	11	70	44	1	1
Oxide	507	337	371	200	264
Poland					
Metal	158	142	52	71	47
Oxide	1 338	1 315	1 086	1 034	1 044
Portugal					
Oxide	166	172	161	146	240
Romania					
Metal	43	68	30	36	61
Oxide	97	190	153	87	88
Slovakia					
Oxide	82	104	48	35	52
Slovenia					
Metal	98	110	71	50	36
Spain					
Ores and concentrates	175	164	154	55	103
Metal	1 596	1 676	1 987	1 478	2 642
Oxide	984	1 146	899	493	516
Sweden					
Metal	337	546	166	58	17
Oxide	296	319	293	203	219
Switzerland					
Ores and concentrates	201	38	—	25	14
Oxide	1 141	1 461	1 328	793	1 108
Turkey					
Metal	181	308	346	369	219
Oxide	381	501	522	588	885
United Kingdom					
Metal	81	110	98	88	45
Oxide	2 291	1 917	2 454	1 548	2 598

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 2010 and is estimated to produce more than half of world output.

Production of white arsenic

Country	2006	2007	2008	2009	2010	tonnes
Belgium	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	* 15	* 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

Country	2006	2007	2008	2009	2010	tonnes
Belgium						
Metallic arsenic	2 542	117	77	42	114	
France						
Metallic arsenic	15	3	5	9	5	
Germany						
Metallic arsenic	20	32	41	31	57	
Netherlands						
Metallic arsenic	33	59	67	* 30	11	

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

Country	2006	2007	2008	2009	2010	tonnes
Belgium						
Metallic arsenic	105	466	65	17	114	
Bulgaria						
Metallic arsenic	10	30	12	11	3	
Czech Republic						
Metallic arsenic	11	10	26	0	—	
France						
Metallic arsenic	20	19	8	4	17	
Germany						
Metallic arsenic	...	...	...	...	69	
Greece						
Metallic arsenic	16	9	9	11	33	
Ireland, Republic of						
Metallic arsenic	125	137	95	...	—	
Italy						
Metallic arsenic	52	64	43	45	19	
Netherlands						
Metallic arsenic	20	19	8	* 45	2	
Poland						
Metallic arsenic	21	24	42	20	42	
Slovenia						
Metallic arsenic	12	11	—	3	...	

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Spain					
Metallic arsenic	143	116	192	48	96
Sweden					
Metallic arsenic	...	12	6	6	7
Turkey					
Metallic arsenic	77	63	71	74	55
United Kingdom					
Metallic arsenic	49	70	52	60	7

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 virtually all production in the EU34. The largest producer is Russia with an estimated 50 per cent of world production followed by China with 20 per cent.

Production of asbestos

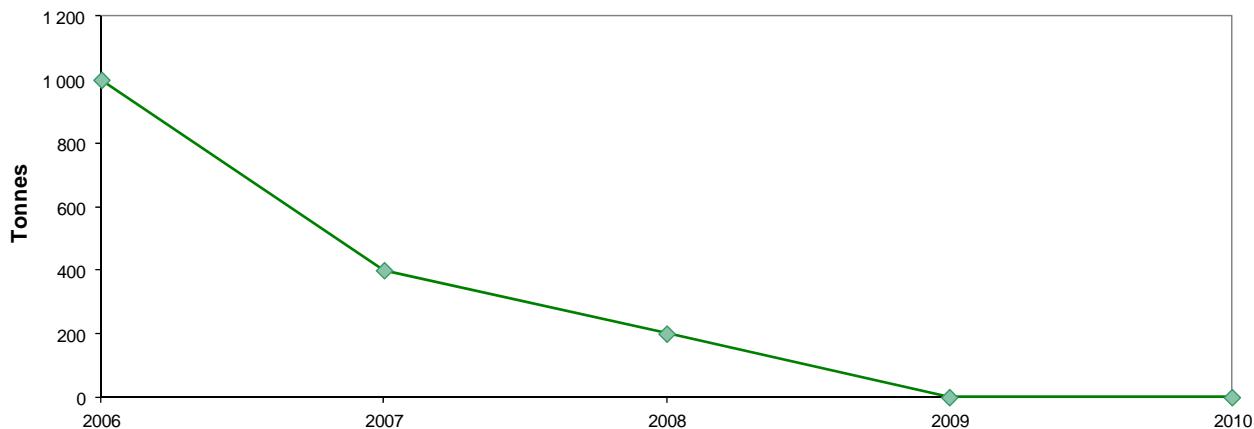
tonnes

Country	2006	2007	2008	2009	2010
Slovakia	1 000	400	200	—	—

Note(s)

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

EU34 Production of asbestos 2006 - 10



Exports of unmanufactured asbestos

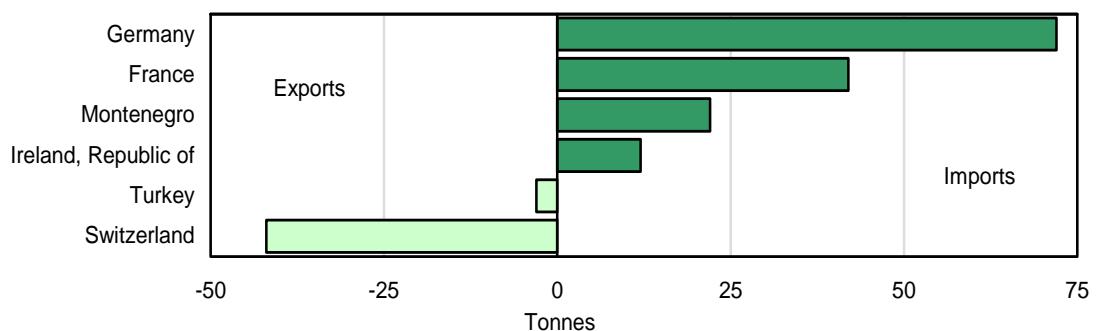
tonnes

Country	2006	2007	2008	2009	2010
Belgium	164	17	—	—	—
Italy	5	29	—	...	...
Switzerland	0	290	120	30	42
Turkey	3	990	685	—	3

Imports of unmanufactured asbestos

tonnes

Country	2006	2007	2008	2009	2010
Belgium	1	120	6	166	0
France	52	169	120	34	42
Germany	61	54	54	36	72
Ireland, Republic of	2 700	23	3	—	12
Luxembourg	199	120	...	—	—
Montenegro	...	...	48	...	22
Poland	52	...	...	35	—
Romania	3 272	0	1	0	—
Spain	20	50	21	—	—
Turkey	6 124	2 518	585	—	—
United Kingdom	0	187	...	11	—

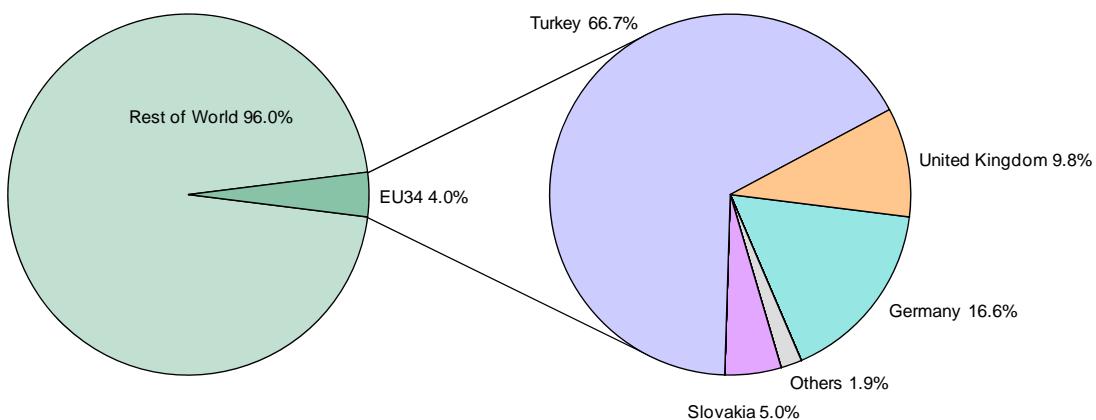
Asbestos - EU34 trade in 2010

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 84 per cent of barytes production is used in the manufacture and utilisation of drilling fluids in oil and gas exploration.

The EU34 countries contributed four per cent of world barytes production in 2010. The largest producer amongst the EU34 is Turkey, which produced nearly 67 per cent of the EU34 production. The largest world producer is China, which accounted for 46 per cent of world production in 2010, followed by India with 24 per cent.

EU34 Production of barytes 2010



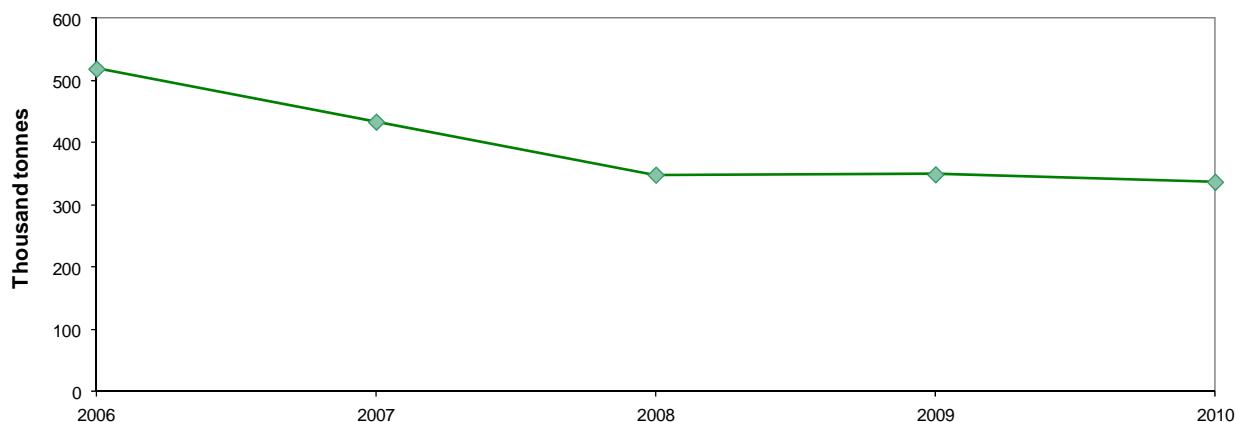
Production of barytes

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	74 500	50 900	40 100	14 300	500
France	* 40 000	—	—	—	—
Germany	85 524	88 265	78 941	45 606	55 887
Italy	* 7 000	* 5 000	* 5 000	* 3 500	* 3 500
Poland	2 034	2 000	308	300	300
Portugal	24	25	171	1 078	15
Slovakia	57 000	58 000	20 000	30 000	17 000
Spain	45 001	26 770	11 100	5 212	2 050
Turkey	160 000	150 000	150 000	213 187	225 000
United Kingdom	48 000	53 000	43 000	36 000	33 000
EU34 Total	519 000	434 000	349 000	349 000	337 000

Note(s)

(1) This table may include small quantities of witherite

EU34 Production of barytes 2006 - 10**Exports of barytes**

tonnes

Country	2006	2007	2008	2009	2010
Austria	5 830	3 023	2 440	1 276	345
Belgium	19 004	506	1 381	2 638	3 216
Bulgaria	74 523	50 922	46 907	14 326	505
France (a)	* 36 300	* 37 100	* 10 000	* 11 500	* 10 500
Germany	33 947	43 104	38 111	45 360	—
Italy	1 000	2 239	1 238	2 890	1 906
Netherlands	37 392	68 798	58 740	121 567	79 880
Norway	14 199	13 425	5 608	4 069	12 071
Slovakia	13 843	9 174	685	6 309	641
Spain	27 743	31 693	33 676	29 776	32 427
Turkey	159 128	115 039	123 485	121 744	175 497
United Kingdom	4 250	9 242	9 976	13 095	17 851

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	2006	2007	2008	2009	2010
Austria	12 550	4 898	6 234	2 733	3 115
Belgium	7 953	6 229	5 959	4 490	5 637
Croatia	893	98	1 525	889	710
Czech Republic	7 195	6 358	7 388	4 641	7 004
Denmark	58 303	38 096	22 324	27 656	14 178
Finland	4 498	5 018	4 735	2 573	4 406
France	24 471	40 760	34 166	26 227	41 513
Germany	272 526	320 702	278 335	129 220	263 839
Greece	1 065	1 255	1 348	2 133	1 318
Hungary	(a)* 5 600	1 456	492	4 536	1 441
Ireland, Republic of	293	586	229	169	176
Italy	84 398	89 745	102 684	51 615	67 303
Luxembourg	24 243	29 556	27 726	16 377	17 182
Netherlands	88 489	148 808	122 039	43 928	161 343
Norway	125 134	127 181	121 259	146 535	149 510
Poland	9 138	10 895	14 334	8 349	11 758
Portugal	3 099	1 934	3 806	3 744	4 448
Romania	7 604	14 040	25 475	8 351	8 501

Barytes

Imports continued

tonnes

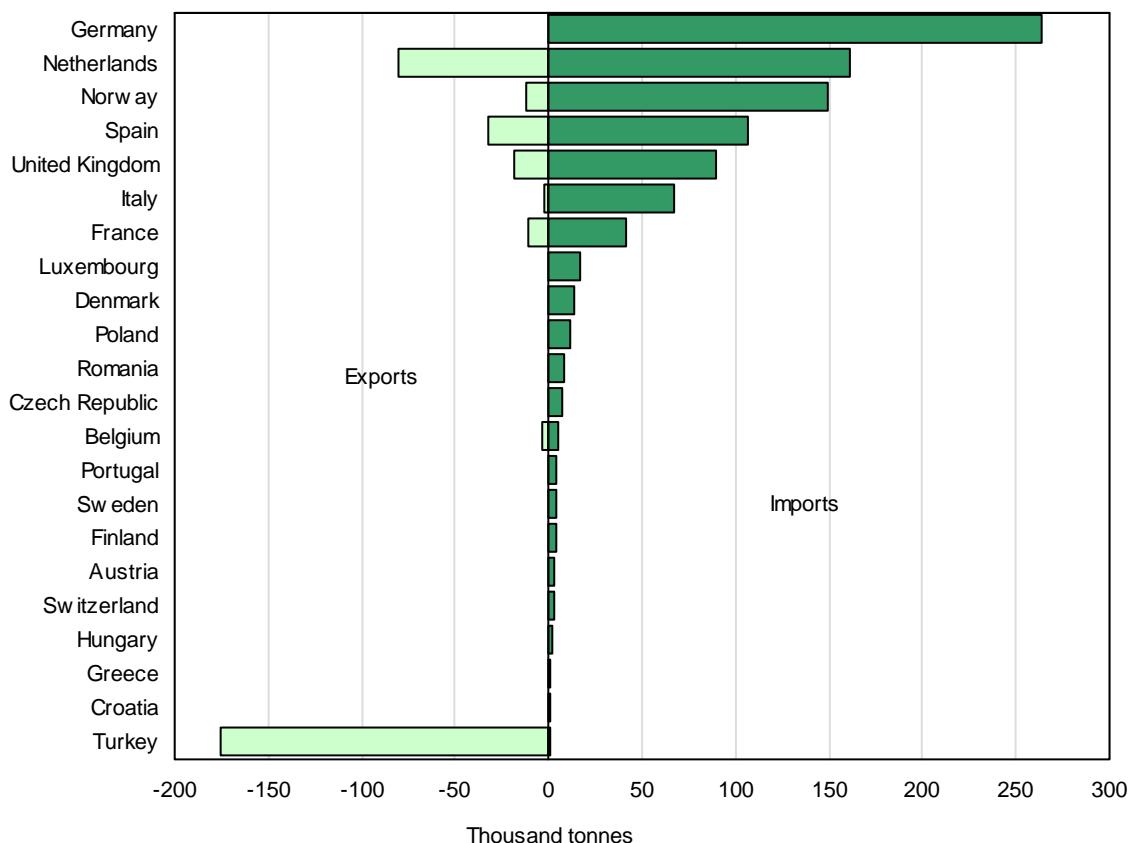
Country	2006	2007	2008	2009	2010
Slovakia	872	147	142	99	119
Slovenia	1 044	585	596	530	457
Spain	50 743	65 569	71 025	30 503	106 611
Sweden	4 876	6 504	6 371	3 346	4 406
Switzerland	2 433	2 843	3 644	2 605	3 020
Turkey	279	741	455	507	342
United Kingdom	78 225	84 617	56 794	61 308	89 474

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 exports from certain countries

Barytes - EU34 trade in 2010

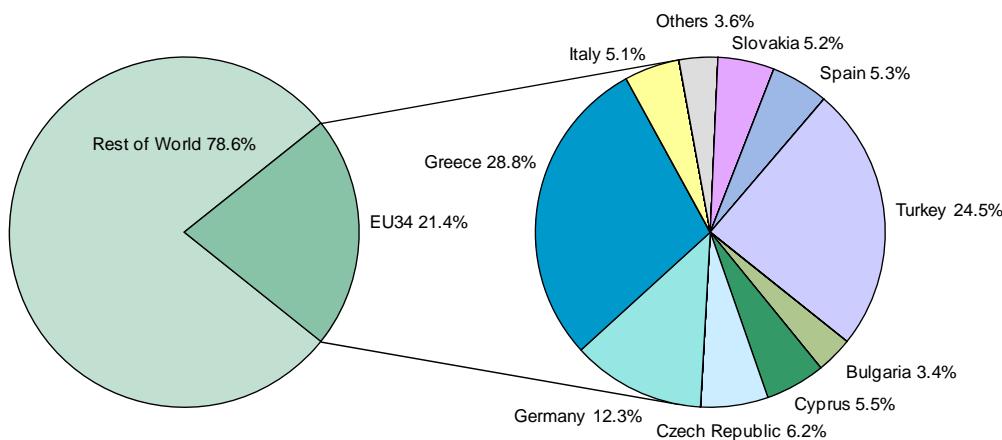


Bentonite and fuller's earth

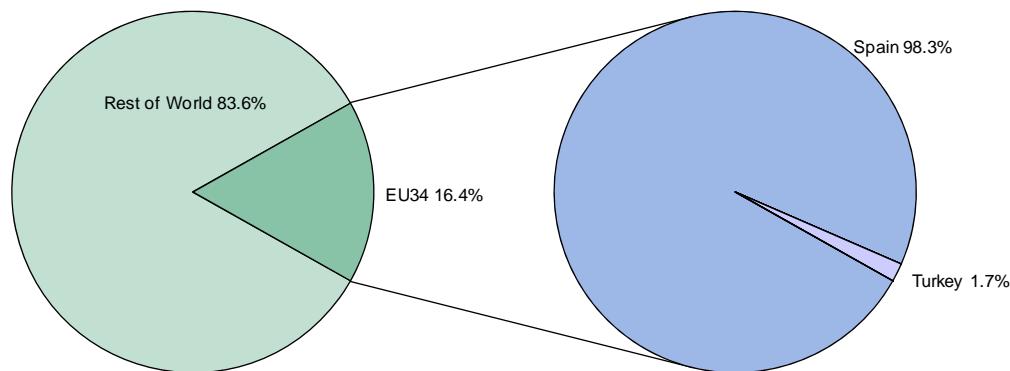
Bentonites consist of montmorillonite (a clay mineral) that occurs as two main varieties — calcium bentonite and the more commercially important sodium bentonite. In the UK the name fuller's earth is given to calcium bentonite (and in the USA, attapulgite). Sepiolite is a fibrous clay that can be a substitute 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 EU34 countries produced 21 per cent of world bentonite in 2010. The world's largest producer was the USA with 29 per cent of world production. Greece is the largest producer of bentonite in the EU34 with 29 per cent of EU34 production. UK production of fuller's earth ceased in 2005 and there is no longer any production in the EU34. More than 83 per cent of world fuller's earth production comes from the USA. Most of Europe's sepiolite and attapulgite production in 2010 came from Spain, with a smaller (estimated) contribution from Turkey.

EU34 Production of bentonite 2010



EU34 Production of attapulgite and sepiolite 2010



Production of bentonite and fuller's earth

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria					
Bentonite	134 500	99 000	178 700	108 400	99 700
Croatia					
Bentonite	16 410	19 578	19 759	* 20 000	* 20 000
Cyprus					
Bentonite	150 620	154 655	155 125	152 722	162 969
Czech Republic					
Bentonite	267 000	335 000	235 000	177 000	183 000

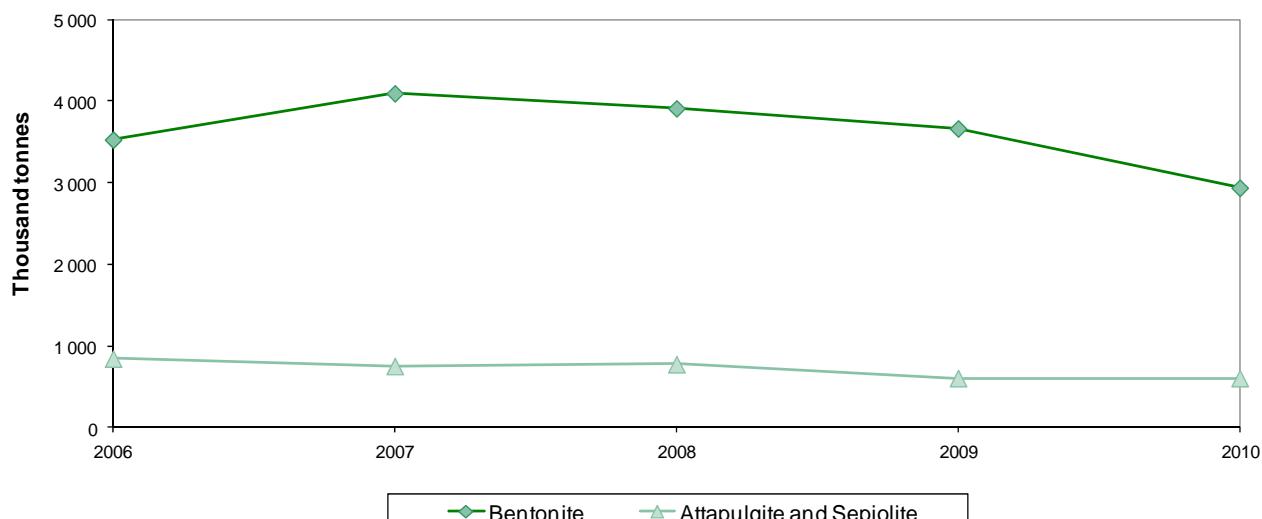
Bentonite and Fuller's Earth

Production continued					tonnes
Country	2006	2007	2008	2009	2010
Denmark					
Bentonite	19 211	20 093	22 458	24 040	23 832
France					
Bentonite	...	...	...	25 000	25 000
Germany					
Bentonite	363 998	384 709	414 336	326 461	362 623
Greece					
Bentonite	1 166 000	1 342 000	1 580 000	1 500 000	844 804
Hungary					
Bentonite	6 635	54 231	7 464	2 839	3 000
Italy					
Bentonite	469 654	599 735	281 119	292 318	* 150 000
Macedonia					
Bentonite	20 353	22 509	13 689	9 033	* 9 000
Poland					
Bentonite	—	1 300	3 000	2 800	2 200
Romania					
Bentonite	21 165	16 911	16 638	13 756	21 963
Slovakia					
Bentonite	136 000	149 000	145 000	109 000	153 000
Slovenia					
Bentonite	130	130	160	104	135
Spain					
Bentonite	154 746	147 253	154 534	147 090	157 001
Attapulgite	20 933	24 615	27 348	21 110	27 841
Sepiolite	806 345	717 728	737 659	573 937	557 862
Turkey					
Bentonite	* 600 000	748 170	683 253	753 155	718 260
Sepiolite	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
EU34 Total					
Bentonite	3 526 000	4 094 000	3 910 000	3 664 000	2 936 000
Attapulgite and Sepiolite	838 000	752 000	775 000	605 000	596 000

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

EU34 Production of bentonite, attapulgite and sepiolite 2006 - 10



Exports of bentonite and fuller's earth

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Bentonite	8 112	5 589	5 225	4 350	3 447
Belgium					
Bentonite	32 407	18 504	34 034	36 263	28 632
Bulgaria					
Bentonite	89 531	74 412	103 106	79 359	72 183
Cyprus					
Bentonite	159 472	156 871	92 089	95 674	98 803
Czech Republic					
Bentonite	86 296	97 358	105 403	99 584	120 859
Denmark					
Bentonite	19 214	19 495	15 734	13 004	13 787
Finland					
Bentonite	232	115	42	803	0
France					
Bentonite	9 788	13 454	12 231	9 211	12 709
Germany					
Bentonite	77 368	81 272	67 109	52 424	84 920
Fuller's earth	1 378	...	...	...	...
Greece					
Bentonite	12 620	168	8 885	5 116	13 203
Fuller's earth	122	...	...	...	...
Hungary					
Bentonite	860	849	1 191	555	954
Italy					
Bentonite	272 438	296 809	293 417	186 219	257 173
Latvia					
Bentonite	51	...	81	77	392
Lithuania					
Bentonite	2 491	5 457	1 929	266	442
Macedonia					
Bentonite	4 747	4 181	5 201	3 716	3 310
Montenegro					
Bentonite	2	3	1 384	24	48
Netherlands					
Bentonite	132 076	129 692	120 946	135 722	178 093
Fuller's earth	2 141	...	...	...	...
Norway					
Bentonite	360	254	157	294	3 726
Fuller's earth	822	...	...	...	...
Poland					
Bentonite	15 851	19 107	20 384	23 918	21 987
Fuller's earth	580	...	...	...	...
Portugal					
Bentonite	518	1 718	1 608	691	1 175
Romania					
Bentonite	521	68	10	31	31
Slovakia					
Bentonite	105 273	89 517	79 936	65 429	32 981
Slovenia					
Bentonite	107	196	142	284	205
Spain					
Bentonite	73 767	72 278	75 287	1 021 034	66 118
Sepiolite	465 599	474 788	460 485	418 644	...
Fuller's earth	7 896	...	...	...	...
Sweden					
Bentonite	9 539	12 240	11 640	5 588	3 457
Turkey					
Bentonite	84 595	22 237	244 177	250 082	307 891
Fuller's earth	251	...	...	...	...

Bentonite and Fuller's Earth

Exports continued

Country	2006	2007	2008	2009	2010	tonnes
United Kingdom						
Bentonite	42 548	47 122	43 261	34 622	41 323	
Sepiolite	172	186	226	130	...	
Fuller's earth	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 the 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

Country	2006	2007	2008	2009	2010	tonnes
Austria						
Bentonite	60 667	58 727	68 703	66 575	90 229	
Fuller's earth	427	...	...	...	...
Belgium						
Bentonite	48 870	42 671	74 216	62 885	72 971	
Fuller's earth	7 035	...	...	...	...
Bulgaria						
Bentonite	1 455	2 979	3 386	2 422	2 548	
Fuller's earth	537	...	...	...	...
Croatia						
Bentonite	2 053	7 633	39 289	22 383	7 852	
Fuller's earth	260	...	...	...	...
Cyprus						
Bentonite	9 063	10 556	12 496	5 709	4 629	
Czech Republic						
Bentonite	18 452	23 559	24 239	25 129	18 472	
Fuller's earth	1 039	...	...	...	...
Denmark						
Bentonite	49 695	43 555	34 012	35 089	43 049	
Fuller's earth	921	...	...	...	...
Estonia						
Bentonite	2 223	1 995	1 506	1 631	3 352	
Finland						
Bentonite	32 520	37 741	31 445	19 429	16 293	
Fuller's earth	109	...	...	...	...
France						
Bentonite	220 996	243 350	198 787	158 715	159 096	
Fuller's earth	23 522	...	...	...	...
Germany						
Bentonite	323 999	351 991	361 782	335 990	386 261	
Fuller's earth	9 371	...	...	...	...
Greece						
Bentonite	14 573	19 780	21 261	8 593	3 668	
Fuller's earth	811	...	...	...	...
Hungary						
Bentonite	4 850	2 933	3 095	3 608	4 360	
Iceland						
Bentonite	2 468	5 022	2 392	1 259	432	
Ireland, Republic of						
Bentonite	1 725	2 916	2 643	2 741	2 734	
Italy						
Bentonite	121 697	155 568	136 417	96 698	130 508	
Fuller's earth	8 208	...	...	...	...
Latvia						
Bentonite	1 544	1 850	2 628	2 148	2 787	
Lithuania						
Bentonite	2 838	3 105	3 068	3 368	4 378	
Fuller's earth	1 978	...	...	...	...

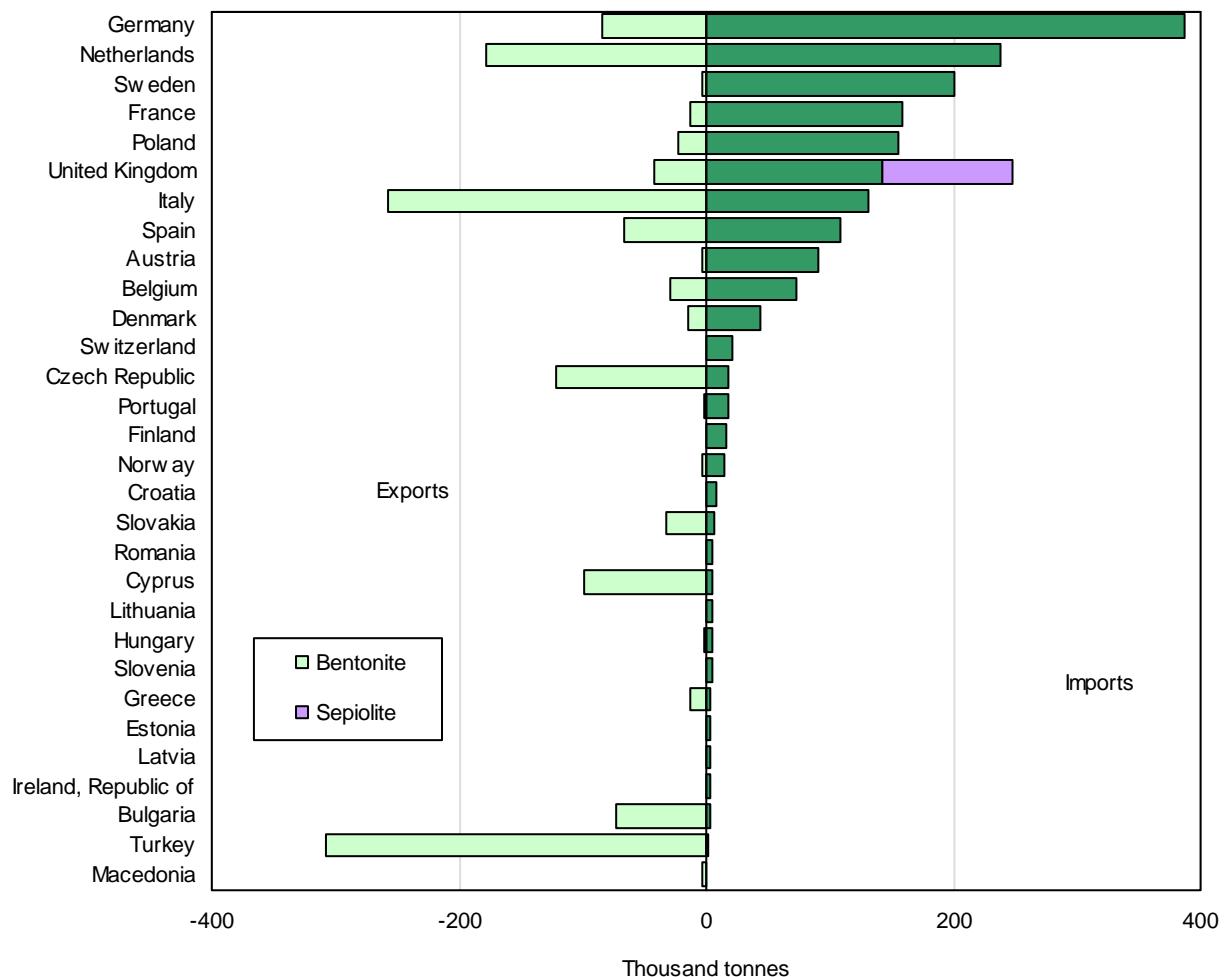
Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Netherlands					
Bentonite	281 144	305 364	314 298	* 190 000	237 683
Fuller's earth	80 511	...	...	...	...
Norway					
Bentonite	15 246	14 399	14 783	12 612	14 506
Fuller's earth	209	...	...	...	...
Poland					
Bentonite	153 266	162 424	171 633	122 165	155 173
Fuller's earth	2 564	...	...	...	...
Portugal					
Bentonite	17 640	18 480	20 304	12 788	18 205
Fuller's earth	379	...	...	...	...
Romania					
Bentonite	4 685	5 253	6 014	3 859	4 825
Fuller's earth	358	...	...	...	...
Slovakia					
Bentonite	6 916	7 145	8 987	5 890	6 416
Fuller's earth	886	...	...	...	...
Slovenia					
Bentonite	4 981	4 048	3 976	4 421	4 191
Spain					
Bentonite	82 645	104 057	103 602	72 993	108 066
Fuller's earth	159	...	...	...	...
Sweden					
Bentonite	125 491	184 313	178 308	120 079	200 422
Switzerland					
Bentonite	24 407	21 334	21 876	20 407	20 362
Fuller's earth	916	...	...	...	...
Turkey					
Bentonite	5 210	10 541	9 806	1 827	1 641
United Kingdom					
Bentonite	173 483	157 388	205 853	140 301	141 849
Sepiolite	72 340	282 733	227 453	70 651	106 108
Fuller's earth	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 the table
- (5) From 2007 Harmonised System 2508.20, used in this table for fuller's earth, is no longer available

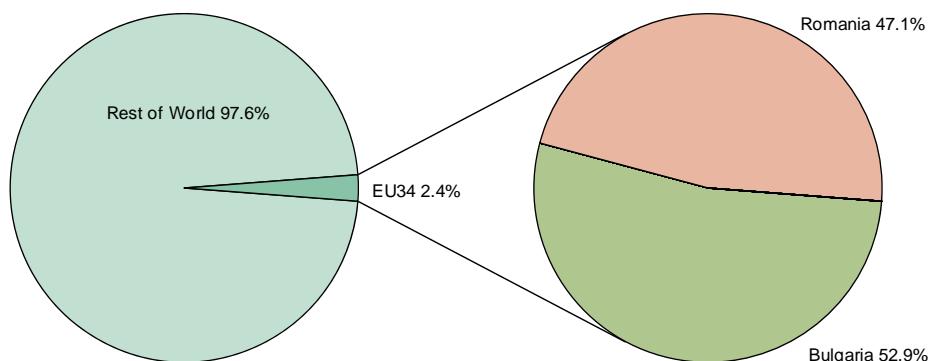
Bentonite and Sepiolite - EU34 trade in 2010

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 70 per cent of world production in 2010 coming from these two countries. Peru was previously a large producer but its output ceased in 2010. There is very little mine production in the EU34, although, bismuth is produced as a by-product of lead and zinc refining.

EU34 Production of bismuth 2010



Mine production of bismuth

tonnes (metal content)

Country	2006	2007	2008	2009	2010
Bulgaria	* 45	* 45	* 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	2006	2007	2008	2009	2010
Austria	0	12	1	1	8
Belgium	...	355	162	413	1
Czech Republic	1	2	3	—	19
France	24	52	74	6	20
Germany	534	901	276	143	178
Italy	1	1	38	5	1
Netherlands	48	238	196	28	34
Norway	...	...	1	—	25
Spain	118	32	19	14	9
Sweden	...	...	1	106	11
United Kingdom	2 703	2 588	905	941	427

Bismuth

Imports of bismuth metal

tonnes

Country	2006	2007	2008	2009	2010
Austria	114	42	148	80	130
Belgium	109	111	190	9	1
Croatia	5	10	8	—	1
Czech Republic	77	70	78	53	106
France	547	382	219	102	100
Germany	1 337	1 130	1 262	881	1 052
Greece	6	11	3	—	—
Hungary	3	3	13	84	106
Ireland, Republic of	8	12	38	14	5
Italy	251	316	269	152	355
Netherlands	168	127	120	42	259
Poland	14	15	25	20	34
Slovenia	66	90	60	24	49
Spain	297	190	212	52	141
Sweden	8	5	12	6	12
Switzerland	6	8	12	12	25
Bismuth					
Turkey	11	14	21	15	11
United Kingdom	2 347	1 908	1 582	310	366

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 35 per cent of the world's total. Israel returned to its position as the second largest producer in 2010 with output increasing by 45 per cent compared to 2009, generating 28 per cent of the world's total. China was the third largest producer with 23 per cent of the total.

Production of bromine

kilograms

Country	2006	2007	2008	2009	2010
Spain	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000

Exports of bromine

kilograms

Country	2006	2007	2008	2009	2010
Belgium	20 103 000	17 271 400	20 752 500	17 466 300	12 619 000
Germany	4 600	3 400	14 400	6 031	6 119
Italy	228 287	55 156	1 000	43	294
Netherlands	1 334 000	1 475 500	1 821 400	1 960 700	1 477 700
Poland	5 500	9 400	5 000	5 500	9 800
Spain	192 339	418 531	2 000	2 578	15 627
United Kingdom	1 137 544	1 469 781	1 015 304	497 246	780 704

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	2006	2007	2008	2009	2010
Austria	228 600	463 900	488 000	65 300	318 400
Belgium	24 553 300	21 768 500	26 540 000	20 618 700	18 693 500
Czech Republic	5 066	7 700	12 000	2 600	3 100
Finland	36 158	100	146 800	242 982	318 478
France	13 971 600	12 146 400	12 428 800	11 720 470	5 275 994
Germany	801 100	607 500	646 400	456 893	657 303
Hungary	9 300	(a) 29 143	9 900	10 500	4 500
Italy	522 069	374 426	598 800	958 588	1 259 187
Netherlands (a)	3 037	4 403	7 661	63 310	321 599
Poland	16 000	14 300	10 600	6 100	17 200
Romania (a)	9 104	152 319	267 073	285 593	230 850
Slovakia	9 700	2 600	(a) 582	(a) 2 470	(a) 6
Spain	82 351	77 578	169 159	75 099	222 746
Sweden	9 000	2 800	31 700	3 100	4 200
Turkey (a)	55 642	28 424	6 761	6 497	8 373
United Kingdom	7 592 352	5 266 339	5 903 423	6 534 300	5 787 829

Note(s)

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

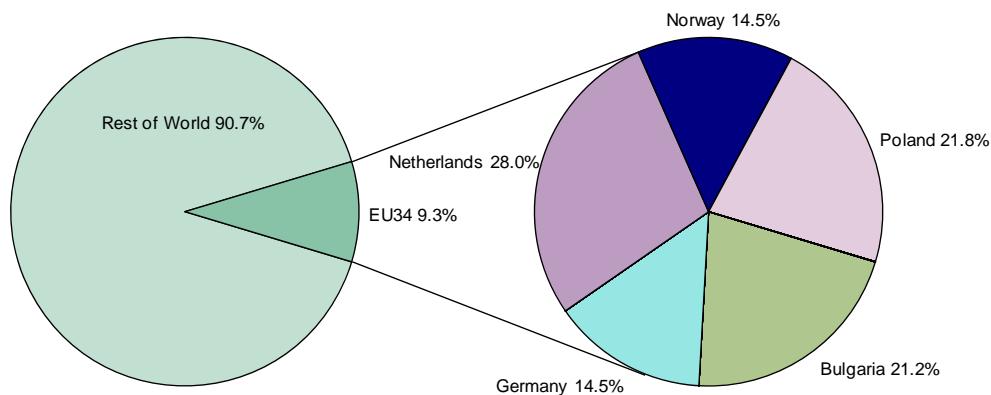
(a) May include some fluorine

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 2010 were China (32 per cent of the world total), the Republic of Korea (19 per cent) and Japan (nine per cent). The EU34 contributed nine per cent of world production in 2010. The Netherlands was the largest EU34 producer accounting for 28 per cent of EU34 production, followed by Poland (22 per cent) and Bulgaria (21 per cent)

EU34 Production of cadmium 2010



Production of cadmium

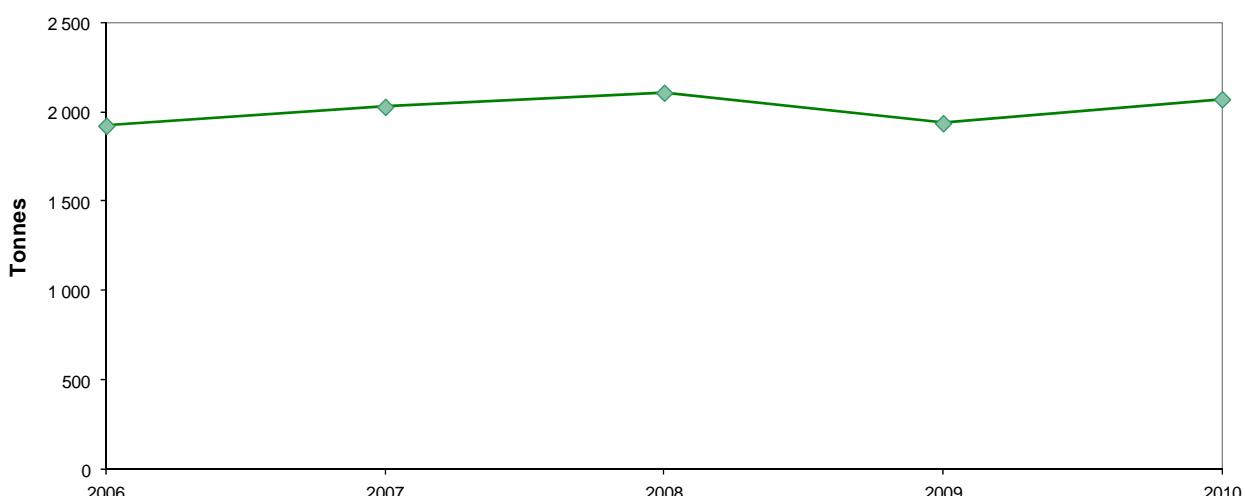
tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	320	318	376	413	* 440
France	90	50	—	—	—
Germany	* 490	* 475	* 420	* 250	* 300
Netherlands	524	495	530	* 490	* 580
Norway	125	269	178	249	300
Poland	373	421	603	534	451
EU34 Total	1 900	2 000	2 100	1 900	2 100

Note(s)

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

EU34 Production of cadmium 2006 - 10



Exports of cadmium

tonnes

Country	2006	2007	2008	2009	2010
Belgium					
Metal	298	181	442	452	459
Oxide	5 283	6 160	4 677	4 033	4 413
Bulgaria					
Metal	369	434	374	569	474
France					
Metal	798	815	890	1 022	763
Germany					
Metal	...	...	287	276	523
Italy					
Metal	1	796	1 633	2 030	3 104
Netherlands					
Metal	1 064	544	816	305	606
Norway					
Metal	90	205	259	211	329
Poland					
Metal	364	368	558	590	484
Sweden					
Oxide	...	322	448	305	360
United Kingdom					
Metal	7	76	54	25	2 545

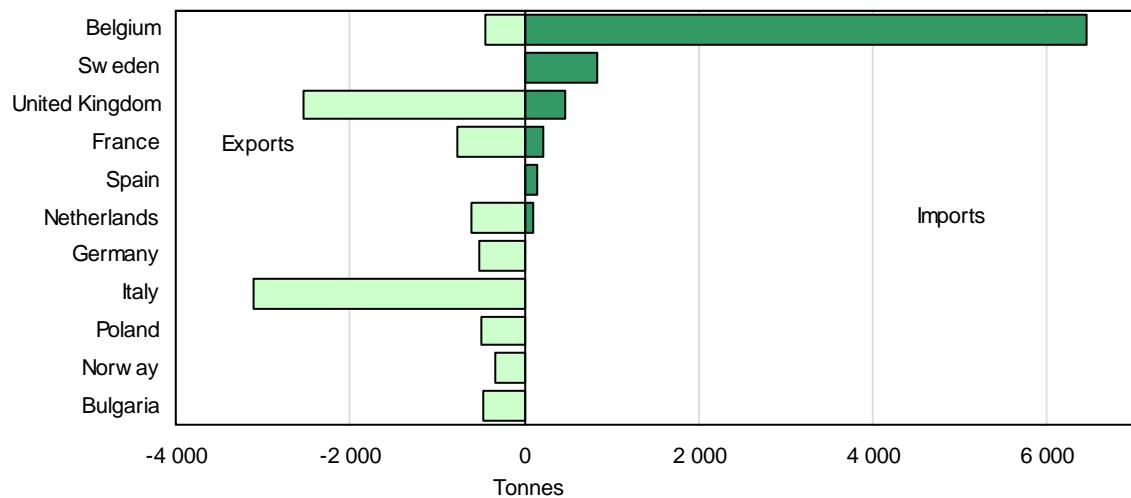
Imports of cadmium

tonnes

Country	2006	2007	2008	2009	2010
Belgium					
Metal	3 948	5 038	5 511	3 439	6 456
Czech Republic					
Oxide	285	338	463	396	464
France					
Metal	527	771	645	455	212
Oxide	593	885	1 114	605	18
Germany					
Metal	7	22	53	11	18
Oxide	337	423	507	522	625
Greece					
Metal	1	1	18	39	1
Italy					
Metal	30	40	49	43	3
Netherlands					
Metal	113	437	186	50	102
Spain					
Metal	19	0	21	118	153
Sweden					
Metal	388	491	851	588	825
Oxide	102	25	83	42	107
United Kingdom					
Metal	129	276	212	246	470

Cadmium

Cadmium metal - EU34 trade in 2010



Cement

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 EU34 during 2010, with 35 per cent of EU34 production, followed by Germany (19 per cent) and France (12 per cent). Turkey is also the largest producer of finished cement with 22 per cent of the EU34 total, followed by Spain (18 per cent) and Italy (13 per cent). There is significant international trade in both clinker and finished cement.

Production of cement clinker

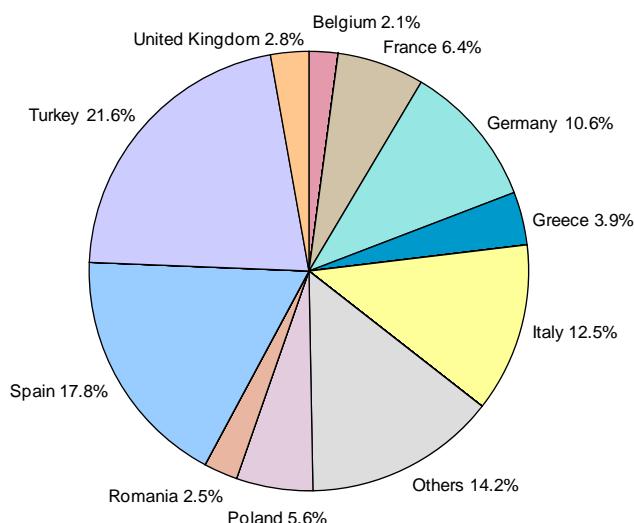
tonnes

Country	2006	2007	2008	2009	2010
Austria	188 588	221 684	287 911	160 223	54 369
Belgium	...	...	...	1 123 722	858 871
Bulgaria	...	...	3 509 817	1 858 850	2 071 100
Cyprus	97 846	—	—	30 286	—
Czech Republic	...	3 127 530	3 137 828	2 433 746	2 260 561
Denmark	5 499	21 209	16 092	122	3 819
Estonia	704 700	1 042 800	1 040 000	448 500	537 000
France	17 731 000	18 046 000	16 885 000	14 568 000	14 901 000
Germany	24 921 000	26 992 000	25 366 000	23 232 000	22 965 000
Greece	10 852 453	12 035 077	11 361 397	8 649 322	* 8 000 000
Hungary	2 533 076	2 500 698	* 2 500 000	* 2 400 000	* 2 400 000
Italy (a)	1 319 046	1 088 402	957 371	637 853	966 577
Lithuania	...	...	—	233 292	—
Luxembourg	816 000	817 000	761 800	706 426	736 000
Poland	11 219 940	13 167 950	12 443 103	10 659 214	11 767 782
Portugal (a)	1 484 856	1 513 487	1 760 510	1 749 406	1 102 976
Romania	606 088	222 699	111 719	—	—
Spain (a)	540 482	579 236	2 011 830	2 961 500	3 568 520
Sweden	2 660 045	1 712 626	1 881 054	1 702 019	* 1 750 000
Turkey	32 824 687	39 363 683	41 652 824	41 084 368	43 892 541
United Kingdom	10 069 000	10 227 000	9 478 000	6 420 000	6 599 000
EU34 Total	126 000 000	137 000 000	136 000 000	121 000 000	124 000 000

Note(s)

(a) Sales

EU34 Production of finished cement 2010



Production of finished cement

tonnes

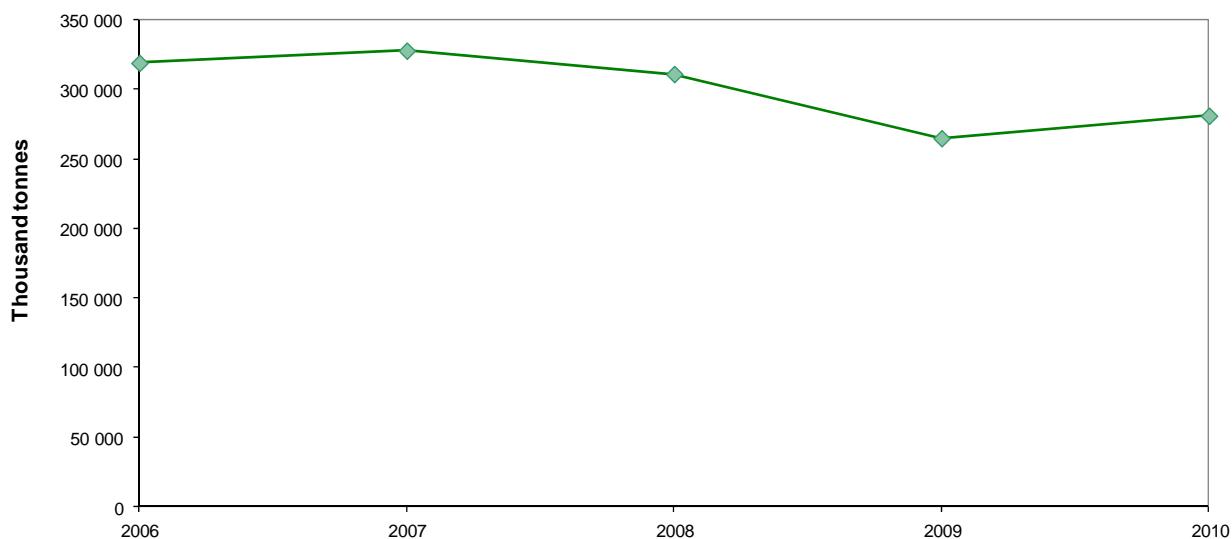
Country	2006	2007	2008	2009	2010
Austria	5 293 370	5 518 303	6 131 257	4 847 862	4 499 402
Belgium	6 965 000	6 930 000	7 135 000	6 113 000	5 990 000
Bulgaria	4 003 664	* 4 290 000	4 900 336	2 660 176	—
Cyprus	1 786 488	1 872 531	1 913 620	1 480 843	1 328 763
Czech Republic	4 677 150	4 898 530	4 804 845	3 851 100	3 558 536
Denmark	2 937 132	2 871 402	2 538 822	1 578 614	1 566 624
Estonia	848 900	937 400	808 000	326 200	375 000
Finland (a)	1 684 507	1 771 000	1 638 000	1 041 866	1 204 581
France	22 268 000	22 268 000	21 443 000	18 300 000	17 998 000
Germany	33 630 000	33 382 000	33 581 000	30 441 000	29 894 000
Greece	15 723 088	14 559 293	14 013 312	11 160 205	* 11 000 000
Hungary	3 724 153	3 551 746	3 544 000	* 3 200 000	* 3 200 000
Ireland, Republic of	* 4 700 000	* 4 700 000	* 3 910 000	* 2 720 000	* 2 290 000
Italy	47 400 000	47 500 000	43 000 000	36 300 000	35 000 000
Latvia	* 280 000	* 300 000	* 310 000	* 300 000	* 300 000
Lithuania	1 065 367	1 105 365	1 075 581	583 067	834 000
Luxembourg	796 000	908 000	907 500	929 820	1 030 700
Netherlands	2 790 000	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000
Norway	1 695 000	1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Poland	14 688 353	17 120 000	17 206 735	15 536 984	15 812 117
Portugal (a)	8 326 687	9 178 735	8 365 242	7 031 438	3 855 312
Romania	8 198 090	9 844 706	10 461 456	7 902 328	7 008 422
Slovakia	3 592 509	3 718 410	4 157 356	3 011 460	2 887 749
Slovenia	1 269 000	* 1 300 000	* 1 300 000	* 1 000 000	* 1 000 000
Spain	54 032 770	54 720 445	42 088 110	29 500 000	50 000 000
Sweden	2 952 000	2 950 000	* 2 950 000	* 2 900 000	* 2 900 000
Switzerland (b)	4 231 294	4 252 574	4 238 311	4 333 096	4 553 077
Turkey	47 906 365	50 995 107	54 027 283	55 741 176	60 580 652
United Kingdom (c)	11 469 000	11 887 000	10 071 000	7 623 000	7 882 000
EU34 Total	318 900 000	327 700 000	310 900 000	264 800 000	280 900 000

Note(s)

(a) Sales

(b) Includes production in Liechtenstein

(c) Great Britain only

EU34 Production of finished cement 2006 - 10

Exports of cement

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Cement clinkers	136 381	189 450	243 906	146 991	46 560
Portland cement	201 687	314 112	344 338	272 440	213 082
Other cement	38 926	59 361	82 570	56 934	50 592
Belgium					
Cement clinkers	544 183	916 787	893 494	936 451	582 766
Portland cement	1 811 884	2 008 842	1 960 360	1 722 252	1 676 150
Other cement	609 236	575 332	556 870	417 798	410 909
Bulgaria					
Cement clinkers	293 031	353 996	120 588	14 836	5 246
Portland cement	334 013	52 803	130 932	109 923	164 404
Other cement	40	1 067	22 589	394	1 772
Croatia					
Cement clinkers	244 043	310 378	235 377	169 394	176 403
Portland cement	1 282 560	855 579	667 503	615 827	639 236
Other cement	89 957	94 185	468 597	276 981	601 470
Cyprus					
Cement clinkers	91 635	0	0	24 215	—
Portland cement	155 271	51 022	—	27 324	12 866
Czech Republic					
Cement clinkers	32 521	29 924	19 039	85 427	88 236
Portland cement	394 105	458 701	436 600	374 515	402 537
Other cement	67 930	151 422	196 133	156 650	218 689
Denmark					
Cement clinkers	11 981	9 673	7 287	7 784	11 884
Portland cement	1 290 816	1 094 730	969 666	568 656	731 730
Other cement	14 153	16 222	25 482	20 751	3 860
Estonia					
Cement clinkers	87 638	325 263	426 384	395 641	222 190
Portland cement	228 971	274 997	383 449	120 294	148 505
Other cement	29	452	1 387	59	488
Finland					
Portland cement	647	982	2 618	1 275	373
France					
Cement clinkers	325 352	325 897	260 529	170 883	282 673
Portland cement	683 110	590 684	578 230	621 568	766 167
Other cement	113 145	13 999	10 056	—	—
Germany					
Cement clinkers	687 056	1 051 733	1 120 078	467 042	680 552
Portland cement	4 251 126	4 874 062	5 115 858	4 445 980	4 173 112
Other cement	1 852 990	2 086 591	2 077 175	2 101 709	2 010 734
Greece					
Cement clinkers	356 077	848 925	722 151	851 946	722 142
Portland cement	2 816 832	2 685 623	2 842 584	3 051 954	3 122 615
Other cement	181 529	207 665	205 640	297 036	47 435
Hungary					
Cement clinkers	—	—	—	1 701	296
Portland cement	257 050	177 191	329 647	220 069	185 279
Other cement	32	4 448	25 169	2 987	795
Ireland, Republic of					
Cement clinkers	—	16 033	—	4 823	1
Portland cement	972 585	1 120 808	1 144 186	1 054 533	1 025 910
Other cement	1 489	1 596	1 512	1 317	8 787
Italy					
Cement clinkers	61 437	143 235	38 106	5 280	52 673
Portland cement	2 091 427	2 143 940	2 094 130	1 637 605	2 035 118
Other cement	660 595	536 324	491 150	469 636	393 746
Latvia					
Cement clinkers	326	35 307	—	2 382	68 802
Portland cement	5 528	43 951	240 311	147 960	562 435
Other cement	141	10 178	20	126	76
Lithuania					
Portland cement	246 350	154 649	204 951	170 273	352 750
Other cement	16	893	1 531	491	1 151

Cement

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Luxembourg					
Cement clinkers	364 463	161 362	181 689	58 463	7 695
Portland cement	51 469	78 252	109 447	119 660	341 075
Other cement	24 785	31 475	264 233	137 975	219 688
Macedonia					
Cement clinkers	151 663	90 869	173 089	5 638	...
Portland cement	220 588	308 468	281 782	361 677	315 074
Netherlands					
Cement clinkers	3 119	10 725	0	352	34
Portland cement	410 232	278 904	298 133	194 392	201 065
Other cement	134 225	12 931	6 217	11 447	57 922
Norway					
Cement clinkers (a)	* 65 000	* 117 000	* 118 000	* 104 000	* 150 000
Portland cement (a)	* 369 000	* 236 000	* 152 000	—	* 144 000
Poland					
Cement clinkers	856 035	181 690	163 902	127 806	89 692
Portland cement	402 741	313 361	314 733	405 940	415 187
Other cement	67 457	65 822	78 349	35 305	22 984
Portugal					
Cement clinkers	1 138 307	1 263 190	1 448 397	1 553 992	1 888 362
Portland cement	1 204 981	1 481 219	1 102 589	758 854	996 778
Other cement	11 364	58 931	11 139	15 231	10 440
Romania					
Cement clinkers	608 616	243 116	111 719	182	265
Portland cement	447 713	134 044	7 449	17 869	20 039
Slovakia					
Cement clinkers	27 092	30 800	53 871	127 016	69 366
Portland cement	1 372 554	1 346 692	1 622 292	1 344 258	1 396 241
Other cement	35 596	85 987	144 311	217 328	21 660
Slovenia					
Cement clinkers	21 440	2	1	—	42 475
Portland cement	73 187	55 803	77 656	96 736	168 056
Other cement	115 104	156 183	227 400	97 258	4 731
Spain					
Cement clinkers	28 809	37 343	907 694	1 181 783	1 545 705
Portland cement	1 386 652	1 358 857	1 474 428	1 411 588	2 768 457
Other cement	43 262	46 348	63 825	74 007	87 864
Sweden					
Portland cement	1 208 231	845 235	723 793	482 223	467 559
Other cement	12 144	15 237	14 082	7 166	5 819
Switzerland					
Cement clinkers	103 367	114 075	91 167	70 207	6 983
Portland cement	23 437	13 704	35 925	15 044	103 952
Other cement	988	4 014	9 009	4 062	2 959
Turkey					
Cement clinkers	1 559 980	1 539 287	2 558 779	3 856 403	2 792 332
Portland cement	3 277 480	4 323 666	11 010 951	16 356 895	15 842 398
Other cement	112 683	124 395	150 785	245 770	415 763
United Kingdom					
Cement clinkers	91 357	28 432	15 071	4 708	5 500
Portland cement	521 784	459 629	230 920	92 628	134 223
Other cement	86 858	88 452	93 122	51 359	56 781

Note(s)

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

Imports of cement

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Cement clinkers	487 406	520 714	456 127	404 998	407 616
Portland cement	686 652	626 723	753 529	639 545	637 550
Other cement	31 100	39 568	40 766	52 715	71 535
Belgium					
Cement clinkers	545 575	746 734	627 133	684 634	740 528
Portland cement	897 314	860 913	954 591	819 923	1 030 282
Other cement	277 825	368 325	292 741	252 247	172 609
Bulgaria					
Cement clinkers	586 194	123 806	248 737	45 002	16 167
Portland cement	9 127	5 690	13 645	481 991	448 220
Other cement	1 665	1 829	1 110	955	2 510
Croatia					
Cement clinkers	...	27 488	50	1	967
Portland cement	447 202	340 112	393 886	393 613	344 352
Other cement	5 547	5 242	7 447	10 620	7 619
Cyprus					
Cement clinkers	17 819	17 498	66 787	15 455	29 579
Portland cement	1 241	1 017	29 311	249	2 512
Czech Republic					
Cement clinkers	117 477	109 392	134 179	101 031	121 682
Portland cement	1 001 321	918 739	932 685	890 776	702 257
Other cement	38 439	30 602	23 816	51 482	48 336
Denmark					
Cement clinkers	46 600	35 555	33 825	31 847	23 732
Portland cement	274 151	243 348	289 307	208 467	180 249
Other cement	54 194	52 662	38 687	46 117	38 797
Estonia					
Cement clinkers	44 059	31 127	25 438	—	13 474
Portland cement	1 833	2 536	4 613	30 424	36 354
Finland					
Cement clinkers	95 730	314 436	236 439	536	14 191
Portland cement	380 296	341 748	281 924	320 084	587 410
Other cement	12 176	16 006	15 911	12 232	10 202
France					
Cement clinkers	1 010 056	1 739 962	1 338 362	784 892	838 538
Portland cement	1 556 864	1 793 027	1 940 065	1 744 423	2 422 582
Other cement	1 120 524	1 223 442	1 185 083	980 685	559 436
Germany					
Cement clinkers	235 023	92 757	14 184	9 200	18 037
Portland cement	794 716	833 311	770 566	904 023	939 310
Other cement	345 286	311 152	293 583	272 741	255 027
Greece					
Cement clinkers	50 907	45 388	23 558	4 249	12 100
Portland cement	3 237	3 603	74 239	136 300	206 164
Other cement	3 228	3 010	2 618	2 359	15 136
Hungary					
Cement clinkers	65 437	40 099	...	117 232	69 469
Portland cement	455 108	560 863	643 776	565 552	495 045
Other cement	375 337	144 824	55 798	49 051	34 191
Iceland					
Cement clinkers	11 922	17 978	628	30	42
Portland cement	199 525	166 488	111 918	38 640	24 481
Other cement	847	868	505	241	4 405
Ireland, Republic of					
Cement clinkers	395 053	330 948	36 153	31 983	15 459
Portland cement	559 645	664 977	780 528	192 556	133 977
Other cement	9 079	16 409	14 649	10 698	4 974
Italy					
Cement clinkers	2 872 114	2 827 333	2 095 716	1 495 609	797 703
Portland cement	1 564 049	1 162 254	962 746	1 433 820	1 298 080
Other cement	184 862	287 190	295 988	308 222	139 459
Latvia					
Cement clinkers	43 774	29 438	30 233	34 375	158
Portland cement	322 187	431 482	353 174	87 660	94 873

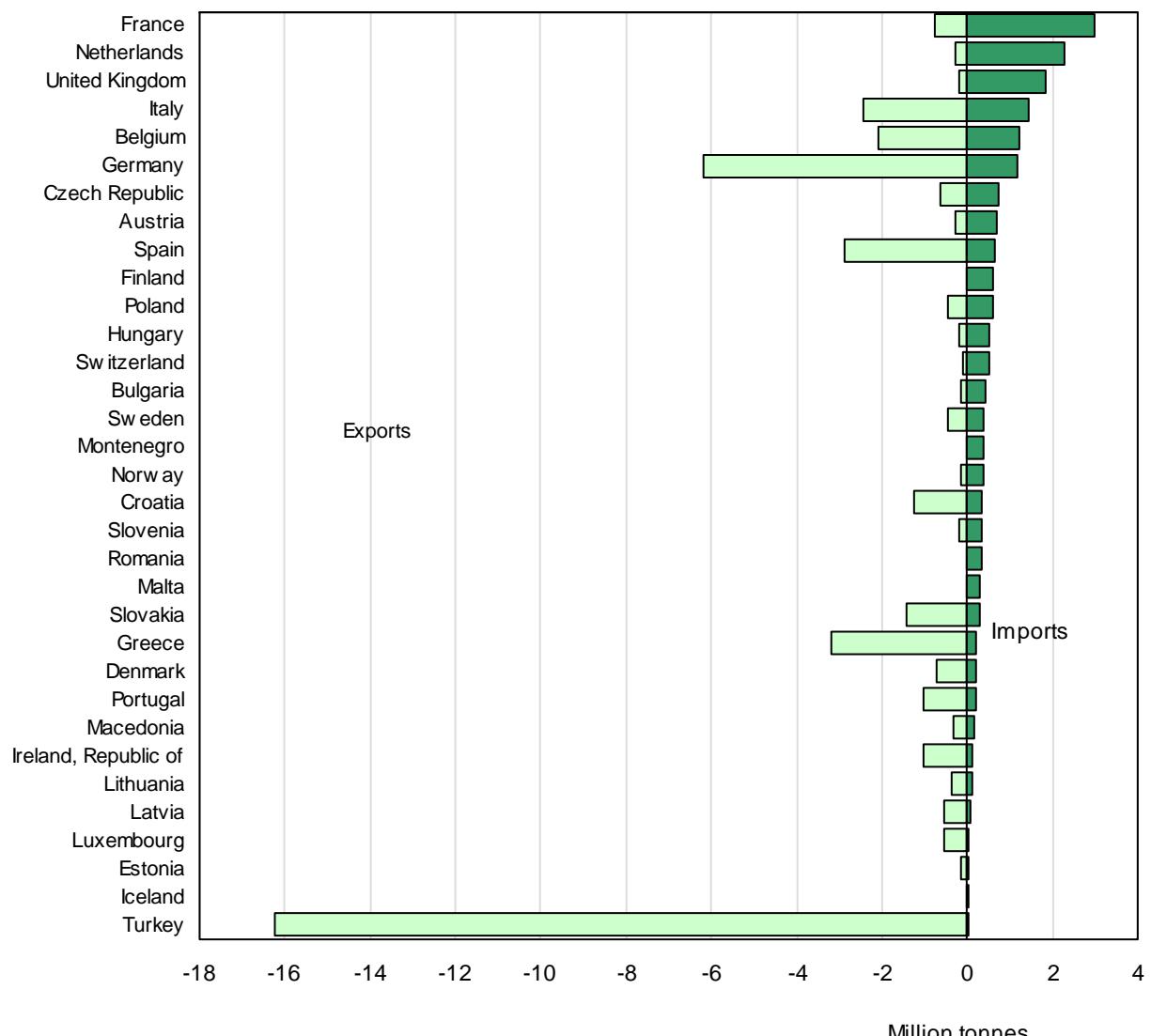
Cement

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Lithuania					
Cement clinkers	416	104 219	79 102	996	176 461
Portland cement	209 400	170 955	111 578	133 039	122 178
Luxembourg					
Cement clinkers	28 582	51 936	36 976	17 827	27 238
Portland cement	38 197	32 068	33 617	56 666	34 642
Other cement	34 141	23 525	22 879	16 255	12 119
Macedonia					
Portland cement	44 542	69 220	136 030	193 076	185 378
Malta					
Portland cement	389 690	356 365	374 392	328 411	285 182
Other cement	1 518	2 949	1 498	1 552	13 002
Montenegro					
Portland cement	393 506	557 771	517 062	279 497	266 063
Other cement	2 494	6 169	214 958	171 150	116 132
Netherlands					
Cement clinkers	494 944	228 817	380 281	511 560	636 694
Portland cement	1 925 756	2 072 034	1 705 144	904 788	1 123 936
Other cement	1 452 353	722 635	993 318	842 190	1 136 163
Norway					
Cement clinkers	8 782	14 895	36 704	6 904	7 070
Portland cement	443 104	441 619	361 216	237 896	353 102
Other cement	14 147	19 062	22 317	20 474	21 621
Poland					
Cement clinkers	45 560	65 632	127 428	35 106	111 677
Portland cement	285 135	520 330	680 447	421 822	565 893
Other cement	5 700	22 982	29 529	21 466	26 247
Portugal					
Cement clinkers	140 673	331 025	196 929	24 156	24 143
Portland cement	356 040	45 012	22 862	150 065	186 170
Other cement	14 286	11 966	8 842	11 072	11 771
Romania					
Cement clinkers	280	500 794	486 462	23 613	75 812
Portland cement	102 759	142 476	538 259	296 687	307 977
Other cement	3 085	12 072	32 765	15 779	22 004
Slovakia					
Cement clinkers	42 666	52 608	94 510	13 076	6 380
Portland cement	98 625	123 589	172 555	284 457	256 358
Other cement	56 418	58 035	93 031	56 060	34 733
Slovenia					
Cement clinkers	11 970	145 638	5 783	60	129
Portland cement	249 749	328 312	326 096	297 617	328 563
Other cement	6 917	17 037	4 618	17 414	17 328
Spain					
Cement clinkers	9 108 499	10 894 888	5 496 563	2 079 944	1 342 279
Portland cement	2 771 668	2 929 208	1 729 088	694 757	637 322
Other cement	40 164	74 401	58 007	73 362	14 516
Sweden					
Cement clinkers	13 238	29 344	37 009	10 434	36 629
Portland cement	249 670	55 784	61 891	29 482	348 431
Other cement	41 176	52 359	50 333	37 308	36 399
Switzerland					
Cement clinkers	115 001	15 292	8 596	27 649	74 946
Portland cement	380 862	348 262	361 305	364 034	465 699
Other cement	49 317	37 522	30 908	36 464	49 549
Turkey					
Cement clinkers	1 209 618	1 360 090	380 516	6 053	58 176
Portland cement	71 237	39 270	12 279	13 471	5 875
Other cement	3 979	4 202	5 036	3 358	6 168
United Kingdom					
Cement clinkers	516 583	836 788	366 791	206 857	201 308
Portland cement	1 397 025	1 534 683	1 731 228	1 718 146	1 759 841
Other cement	26 790	26 215	28 324	30 815	92 031

Cement - EU34 trade in 2010

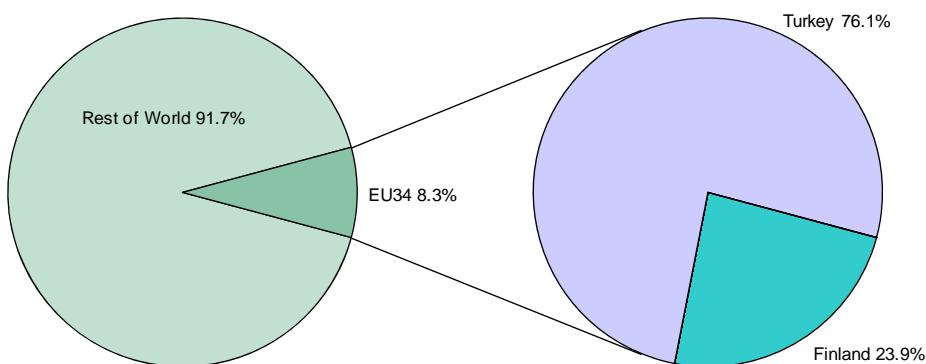


Chromium ores and concentrates

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, Kazakhstan and India which together produced 79 per cent of the world total in 2010. Finland and Turkey are the only producing countries in the EU34, accounting for eight per cent of the world total.

EU34 Production of chromium ores and concentrates 2010



Production of chromium ores and concentrates

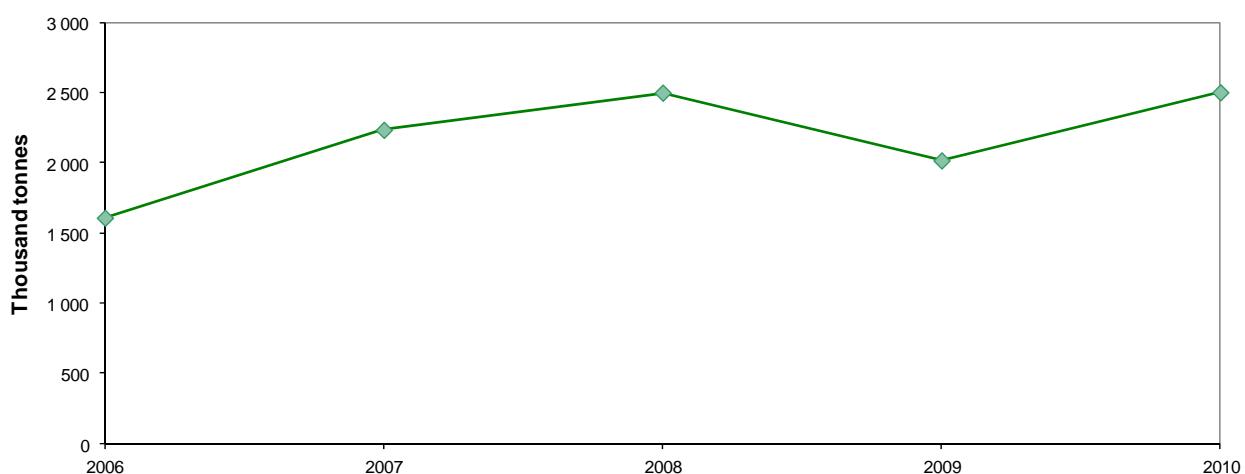
tonnes

Country	2006	2007	2008	2009	2010
Finland	549 000	556 000	614 000	247 000	598 000
Turkey	1 059 901	1 678 932	1 885 712	1 770 029	1 904 460
EU34 Total	1 609 000	2 235 000	2 500 000	2 017 000	2 502 000

Note(s)

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

EU34 Production of chromium ores and concentrates 2006 - 10



Exports of chromium

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Ores and concentrates	136	491	833	333	4
Metal	11 770	14 739	6 596	5 845	10 245
Belgium					
Ores and concentrates	14 485	11 339	48 086	15 562	18 415
Metal	520	635	772	1 226	1 311
Czech Republic					
Ores and concentrates	645	800	507	369	764
Metal	2 104	946	594	662	21
Denmark					
Metal	855	549	1 262	659	1 056
Finland					
Ores and concentrates	1 570	2 492	3 041	2 050	8 291
Metal	5	—	1 034	1 577	1 813
France					
Ores and concentrates	2 013	2 391	4 694	1 935	2 422
Metal	6 457	7 225	7 844	4 767	7 612
Germany					
Ores and concentrates	24 185	20 629	23 563	15 922	32 070
Metal	2 877	3 114	5 379	4 685	4 606
Greece					
Ores and concentrates	726	—	98	44	184
Italy					
Ores and concentrates	5 446	3 980	2 567	1 762	1 617
Metal	111	1 666	166	29	5
Lithuania					
Ores and concentrates	2 213	1 156	240	78	46
Macedonia					
Ores and concentrates	...	1 835	160	...	...
Netherlands					
Ores and concentrates	74 909	78 433	117 639	32 485	74 483
Metal	4 430	2 125	4 282	885	3 569
Poland					
Metal	11	1 556	1 465	861	7 948
Slovakia					
Metal	1 735	1 116	1 299	424	777
Spain					
Ores and concentrates	1 908	1 529	1 073	1 022	600
Metal	990	779	1 165	516	665
Sweden					
Metal	105	102	225	100	191
Switzerland					
Metal	530	74	54	44	82
Turkey					
Ores and concentrates	887 689	1 265 036	1 816 427	1 748 194	2 256 387
Metal	6	7	122	2 667	184
United Kingdom					
Ores and concentrates	47	178	—	32 507	297
Metal	5 123	6 777	6 501	5 058	7 441

Note(s)

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

Chromium

Imports of chromium

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Ores and concentrates	37 326	39 071	42 008	25 891	54 945
Metal	8 879	14 480	8 006	4 325	6 109
Belgium					
Ores and concentrates	22 053	20 761	56 183	19 050	25 350
Metal	1 265	1 177	1 097	871	1 593
Bulgaria					
Ores and concentrates	1 440	969	793	637	671
Croatia					
Ores and concentrates	615	584	568	282	143
Metal	51	280	394	307	419
Czech Republic					
Ores and concentrates	11 380	13 936	12 990	7 798	7 975
Metal	123	281	282	83	514
Denmark					
Ores and concentrates	774	945	974	384	480
Finland					
Ores and concentrates	8 388	9 324	8 866	4 521	9 197
Metal	575	282	327	105	139
France					
Ores and concentrates	23 031	20 156	26 952	10 813	11 273
Metal	1 040	717	1 335	478	1 155
Germany					
Ores and concentrates	126 874	154 367	175 277	45 684	101 972
Metal	7 552	8 454	7 022	3 328	4 783
Greece					
Ores and concentrates	732	257	298	230	178
Hungary					
Ores and concentrates	306	492	479	251	296
Metal	289	28	86	23	82
Ireland, Republic of					
Metal	44	101	120	138	83
Italy					
Ores and concentrates	41 992	46 433	36 552	23 842	22 012
Metal	848	902	721	943	881
Luxembourg					
Metal	105	11	38	3	50
Macedonia					
Ores and concentrates	709	1 432	306	495	294
Netherlands					
Ores and concentrates	99 305	125 778	145 698	18 702	88 788
Metal	3 632	2 222	3 897	2 157	6 642
Norway					
Ores and concentrates (a)	* 500	* 20	* 600	* 400	* 60
Metal	73	253	128	74	90
Poland					
Ores and concentrates	16 161	38 543	36 646	12 728	15 672
Metal	45	1 717	2 137	679	103
Portugal					
Ores and concentrates	2 845	3 339	5 369	2 361	2 108
Metal	336	55	53	28	45
Romania					
Ores and concentrates	1 675	1 856	77 546	705	7 054
Metal	957	78	64	39	16
Slovakia					
Ores and concentrates	11 252	16 819	11 969	2 533	4 546
Metal	11	20	104	52	34
Slovenia					
Ores and concentrates	1 414	986	999	1 005	1 912
Metal	97	85	313	143	104
Spain					
Ores and concentrates	5 906	6 437	6 721	4 031	5 579
Metal	1 552	1 393	1 219	1 192	1 878
Sweden					
Ores and concentrates	315 000	350 000	337 933	64 955	—
	Metal	1 639	2 145	12 782	4 396

Chromium

Imports continued

tonnes

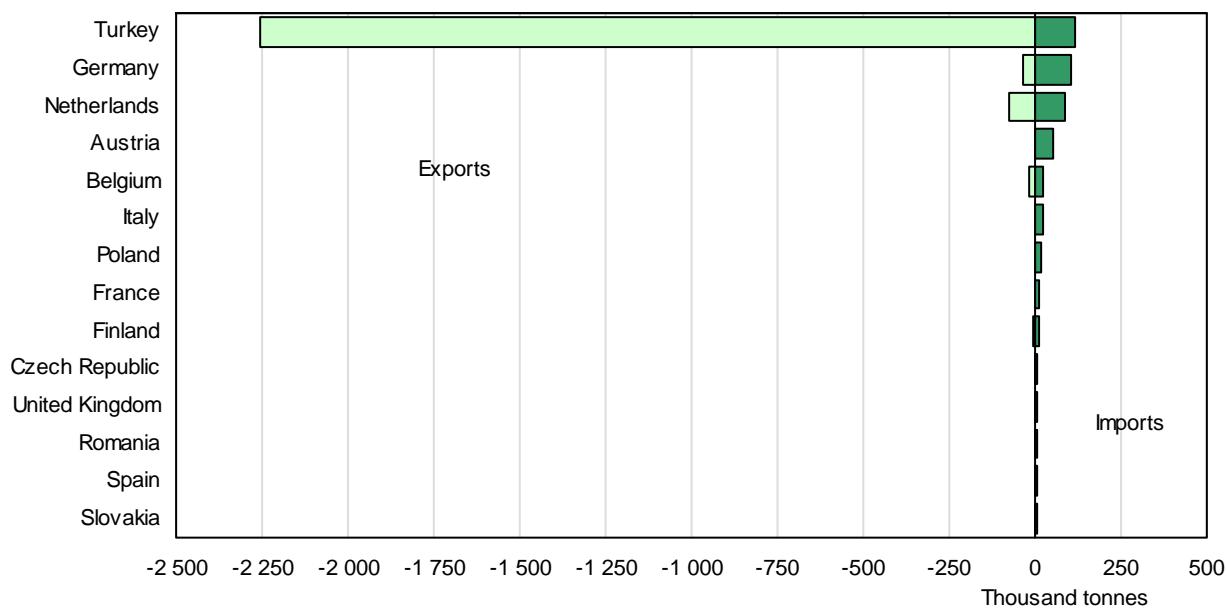
Country	2006	2007	2008	2009	2010
Switzerland					
Ores and concentrates	1 080	1 339	1 510	974	1 051
Metal	162	114	134	38	74
Turkey					
Ores and concentrates	84 467	107 524	119 806	113 461	113 487
United Kingdom					
Ores and concentrates	74 907	103 551	117 715	33 867	7 084
Metal	4 022	2 134	3 099	2 904	3 007

Note(s)

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

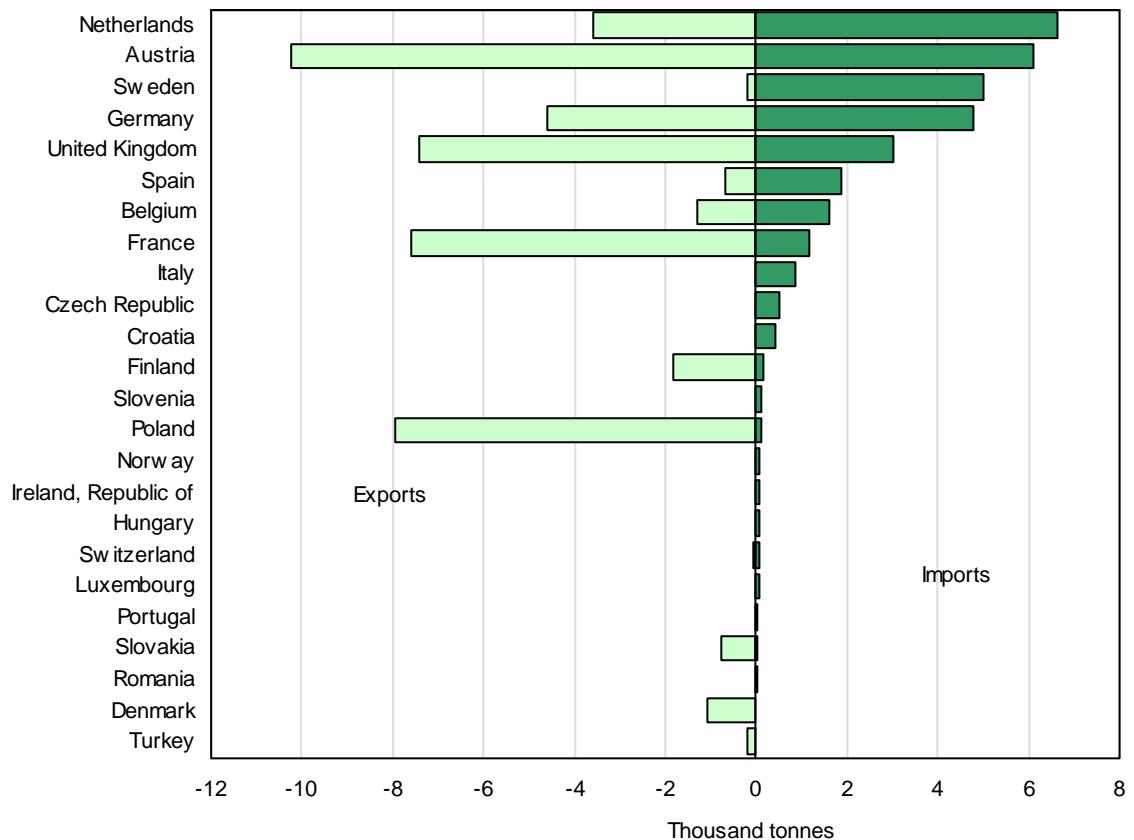
(a) BGS estimates, based on known exports from certain countries

Chromium ores and concentrates - EU34 trade in 2010



Chromium

Chromium metal - EU34 trade in 2010



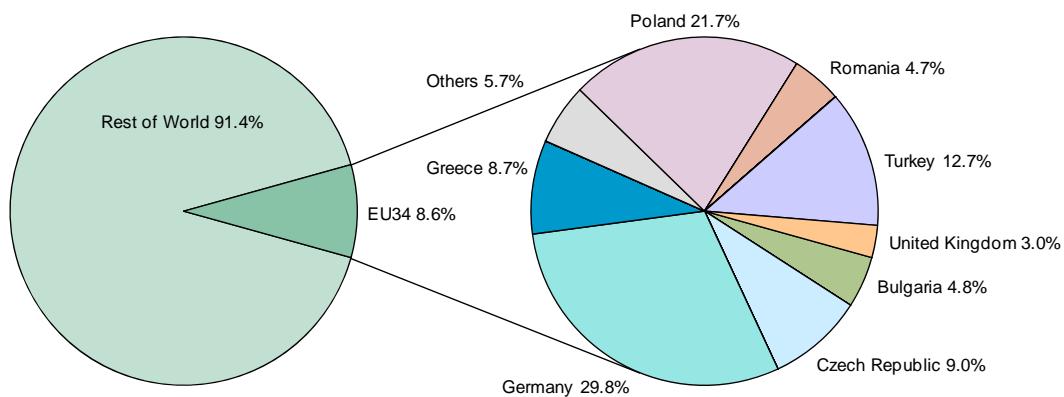
Coal

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 2010 the EU34 countries produced 8.6 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 28 per cent between 2006 and 2010, and now accounts for 45 per cent of the world total.

EU34 Production of coal 2010



Production of coal

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Brown coal and lignite (a)	7 854	—	—	—	—
Bulgaria					
Lignite	22 749 500	25 325 000	26 007 800	25 014 800	27 148 300
Brown coal	2 556 900	2 833 500	2 643 200	2 243 800	2 321 200
Czech Republic					
Bituminous	13 017 000	12 462 000	12 197 000	10 621 000	11 193 000
Lignite	459 000	437 000	416 000	262 000	—
Brown coal	48 915 000	49 134 000	47 456 000	45 354 000	43 931 000
Germany					
Anthracite and Bituminous	23 762 000	24 185 000	19 143 000	14 971 000	14 110 000
Brown coal	176 324 117	180 409 054	175 313 020	169 857 142	169 402 544
Greece					
Lignite	64 800 000	66 100 000	64 521 000	61 800 000	53 600 000
Hungary					
Lignite	8 467 220	8 351 563	8 041 168	8 026 587	8 203 000
Brown coal	1 431 700	1 450 400	1 386 140	952 000	911 000
Macedonia					
Lignite	6 650 182	6 569 220	7 669 103	7 395 915	* 7 000 000
Montenegro					
Lignite	1 502 334	1 195 515	1 740 076	957 164	1 937 847
Norway					
Bituminous (b)	2 359 000	3 223 000	3 429 000	2 437 000	1 685 000
Poland					
Bituminous	95 222 512	88 313 369	84 345 443	78 064 462	76 727 800
Lignite	60 844 278	57 537 727	59 668 166	57 108 304	56 510 100
Romania					
Lignite	32 753 526	35 671 000	34 529 000	28 460 152	28 774 244
Brown coal	* 58 000	97 000	205 000	63 458	62 448

Coal

Production continued

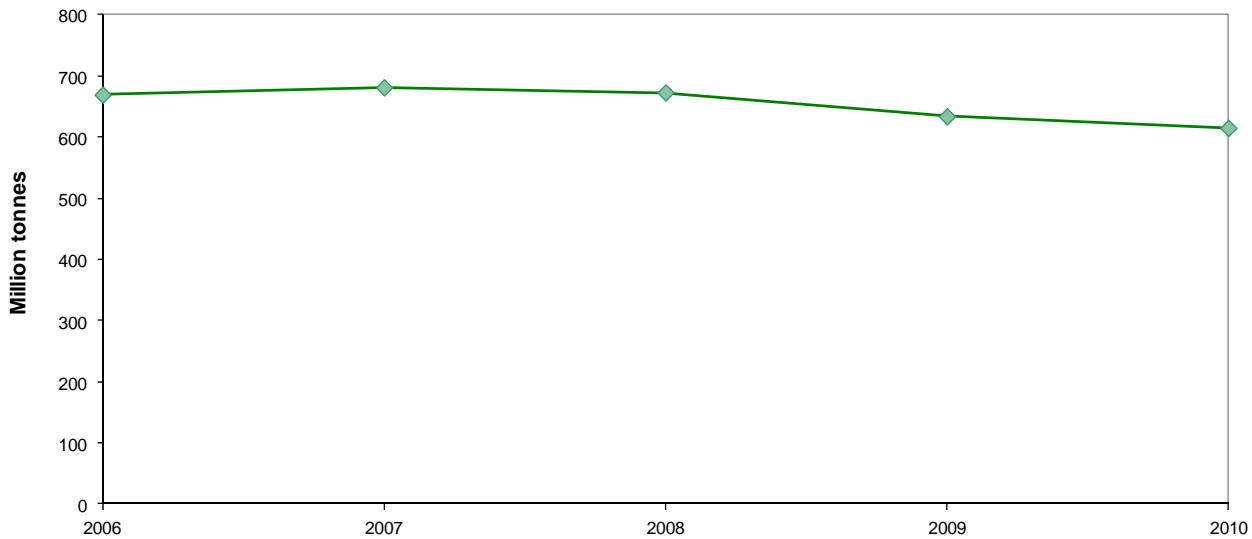
tonnes

Country	2006	2007	2008	2009	2010
Slovakia					
Lignite	6 000	20 000	87 000	155 000	176 000
Brown coal	2 016 000	1 839 000	2 075 000	2 221 000	2 026 000
Slovenia					
Lignite	3 932 842	4 037 766	4 008 440	3 921 746	4 010 930
Brown coal	587 912	483 417	488 828	510 769	419 466
Spain					
Anthracite	3 775 504	3 485 083	3 152 550	4 306 033	3 211 659
Bituminous	4 572 350	4 387 416	4 085 652	2 898 340	2 776 918
Sub-bituminous	3 221 083	3 128 081	2 890 230	2 493 577	2 428 877
Lignite	6 859 641	6 112 946	—	—	—
Turkey					
Anthracite	3 070 793	3 230 787	3 343 409	3 773 603	3 666 675
Lignite	61 010 000	74 316 728	86 074 626	82 263 104	74 437 425
United Kingdom					
Bituminous (c)	18 517 000	17 070 000	18 053 000	17 874 000	18 417 000
EU34 Total	669 400 000	681 400 000	673 000 000	634 000 000	615 000 000

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 anthracite

EU34 Production of coal 2006 - 10

Exports of coal

tonnes

Country	2006	2007	2008	2009	2010
Belgium					
Anthracite	1 521 523	1 454 115	1 400 377	675 097	1 652 015
Other coal	3 734 518	3 670 706	4 416 217	4 640 602	4 211 655
Lignite	552	130	10 581	7 267	18 781
Briquettes	7 923	6 812	11 331	11 452	18 899
Bulgaria					
Hard coal (a)	5 372	17 358	36 095	11 511	76 508
Lignite	...	—	53	5 862	9 525
Czech Republic					
Hard coal (a)	6 690 917	6 732 974	5 993 824	6 028 577	6 451 881
Lignite	1 300 406	1 076 140	1 561 097	1 207 715	1 019 645
Briquettes	213 621	112 450	75 459	93 479	90 864
Denmark					
Hard coal	(a) 54 338	(a) 75 866	(a) 27 070	(a) 1 973 198	(b)* 10 000
Estonia					
Hard coal (a)	3 164	2 035	...	20 296	1 970
France					
Anthracite	10 442	13 161	57 436	5 272	9 551
Other coal	128 523	200 682	128 614	91 266	121 733
Briquettes	2 075	2 013	1 380	6 045	4 495
Germany					
Anthracite	...	7 444	16 575	179 880	222 458
Other coal	305 046	309 501	518 629	129 955	31 492
Lignite	27 801	140 400	425 680	523 720	696 279
Briquettes	83 990	72 008	370 211	493 552	463 102
Greece					
Hard coal (a)	15 852	25 717	8 426	4 799	3 572
Briquettes	23 465	12	25	—	113
Hungary					
Anthracite	—	...	402	...	9 151
Lignite	—	—	89 444	41 329	3 390
Ireland, Republic of					
Anthracite	3 791	30 451	...	2	—
Other coal	6 382	4 395	6 158	3 861	5 820
Briquettes	4 823	...	6 508	9 858	12 695
Italy					
Hard coal (a)	38 239	41 075	31 201	29 473	14 287
Briquettes	30	5 874	492	514	3 923
Latvia					
Hard coal (a)	1 042	—	3 140	170	3 136
Briquettes	...	21	79	74	3 262
Lithuania					
Hard coal (a)	499	4 599	7 685	10 915	33 109
Montenegro					
Lignite	85 478	57 406	40 449	58 381	69 130
Netherlands					
Anthracite	196 407	158 572	109 516	78 064	41 054
Other coal	11 940 024	14 089 233	6 399 941	5 154 853	7 580 839
Briquettes	...	10 188	15	16 347	144 797
Poland					
Anthracite	31 200	30 256	16 173	5 282	41 908
Other coal	16 586 467	11 761 743	7 775 799	8 368 190	10 323 041
Lignite	317	—	1 009	68 273	116 682
Portugal					
Anthracite	5 870	10 557	9 382	4 409	7 136
Romania					
Hard coal (a)	7 997	67 304	5 331	19 771	73 002
Slovakia					
Hard coal (a)	33 665	26 600	30 131	122 287	8 640
Slovenia					
Lignite	29 794	2 150	377	4 615	...
Spain					
Anthracite	74 826	101 968	186 293	123 114	337 930
Other coal	135 401	872 269	1 636 071	1 252 923	1 149 991
Briquettes	53	...	21 735	193	599

Coal

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Turkey					
Anthracite	2 788	1 694	1 043	194	717
Other coal	1 315	2 224	55 510	1 715	37 319
United Kingdom					
Anthracite	137 353	123 549	165 473	119 472	89 701
Other coal	354 281	419 193	742 582	391 414	615 067
Lignite	2 748	1 965	2 334	2 186	2 408
Briquettes	20 037	27 591	52 605	68 226	89 125

Note(s)

(1) This table excludes bunker shipments

(a) Including anthracite

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

Imports of coal

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Hard coal (a)	3 912 731	4 509 917	4 118 906	4 082 877	3 618 128
Lignite	2 294	53 331	46 392	72 734	68 777
Briquettes	101 162	13 045	26 474	30 538	34 999
Belgium					
Anthracite	2 608 840	2 822 426	3 964 878	1 436 499	2 660 267
Other coal	10 534 424	9 620 488	10 171 283	5 807 413	6 851 382
Lignite	279 982	272 708	365 152	256 167	362 257
Briquettes	29 848	25 140	20 943	31 346	27 379
Bulgaria					
Anthracite	2 170 631	2 229 619	2 841 458	1 938 000	1 858 397
Other coal	2 221 526	2 415 165	2 054 649	1 130 146	1 081 783
Briquettes	39	112 775	66 676	10 238	46 754
Croatia					
Hard coal (a)	1 082 446	1 101 803	1 189 379	712 873	1 112 822
Lignite	78 226	62 789	58 417	47 504	85 413
Briquettes	6 084	2 604	2 796	1 730	1 823
Cyprus					
Hard coal (a)	23 473	56 896	46 258	28 911	7 714
Czech Republic					
Anthracite	61 255	45 114	39 211	24 054	24 471
Other coal	1 896 977	2 507 091	2 181 691	1 761 947	2 016 443
Lignite	24 412	33 472	33 579	36 617	49 426
Briquettes	23 837	1 393	18 654	60 962	137 933
Denmark					
Anthracite	85 883	47 233	45 282	12 593	48
Other coal	9 234 248	8 034 596	7 412 557	6 423 923	* 5 000 000
Lignite	359	76	157	576	1 228
Briquettes	511	194	1 000	455	7 554
Estonia					
Hard coal (a)	95 079	175 599	123 194	30 413	77 300
Finland					
Hard coal (a)	6 683 990	6 669 717	5 671 385	5 937 153	5 919 757
France					
Anthracite	3 018 025	3 532 378	2 817 048	1 914 614	2 291 609
Other coal	16 372 754	15 425 960	18 470 782	13 893 343	16 688 152
Lignite	36 436	51 589	68 426	51 577	52 076
Briquettes	147 381	175 350	154 140	151 863	129 465
Germany					
Anthracite	2 499 908	4 353 426	4 137 690	3 893 429	3 643 048
Other coal	35 218 836	37 993 445	37 215 220	30 926 568	34 850 251
Lignite	10 070	15 411	39 248	37 839	24 400
Briquettes	128 877	96 169	70 400	132 895	404 681

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Greece					
Anthracite	39 250	59 007	41 475	37 585	48 783
Other coal	461 181	382 933	371 479	168 663	512 663
Lignite	50	3 029	35 457	58 053	87 707
Briquettes	1 382	1 144	111	5 827	62
Hungary					
Hard coal	(a) 1 765 117	1 950 139	1 893 076	(a) 1 340 769	(a) 1 744 778
Lignite	686 862	572 742	767 480	413 094	297 335
Briquettes	15 416	13 589	16 093	17 519	14 352
Iceland					
Anthracite	91 545	107 686	91 576	104 094	101 220
Other coal	6	31 882	6 609	9 903	3 521
Ireland, Republic of					
Anthracite	68 190	33 175	47 392	53 413	77 112
Other coal	1 908 618	1 830 979	2 169 185	1 721 651	1 601 294
Briquettes	96 279	14 271	19 049	40 482	31 507
Italy					
Anthracite	282 831	406 331	490 757	210 384	408 391
Other coal	24 860 362	25 111 043	25 745 375	20 165 036	21 820 370
Lignite	914	974	791	982	1 126
Briquettes	10 207	6 921	5 392	7 786	6 233
Latvia					
Hard coal (a)	159 787	153 806	169 211	136 277	181 348
Lithuania					
Hard coal (a)	391 032	356 342	382 695	215 439	316 971
Luxembourg					
Anthracite	39 577	42 128	34 471	16 525	24 834
Other coal	106 115	59 201	81 616	83 454	76 133
Lignite	6 164	5 992	7 119	7 093	7 090
Briquettes	1 128	937	833	805	1 059
Macedonia					
Hard coal (a)	179 193	199 946	214 078	85 660	160 162
Lignite	3 920	1 532	...	340	23 409
Briquettes	103 508	63 805	56 640	9 207	7 623
Montenegro					
Lignite	12 542	7 285	12 792	6 734	—
Briquettes	4	12 181	15 410	3 448	(b) 0
Netherlands					
Anthracite	218 516	62 577	79 784	8 005	44 958
Other coal	21 368 119	24 622 621	17 843 689	14 084 993	18 783 491
Lignite	22 548	29 517	5 265	29 239	21 933
Briquettes	83 734	68 765	53 432	53 030	132 281
Norway					
Anthracite (c)	55 914	76 744	81 955	54 199	78 387
Other coal (c)	472 129	(b)* 527 000	(b)* 538 000	(b)* 367 000	(b)* 205 000
Briquettes	349	706	24 406	1 074	1 160
Poland					
Anthracite	295 026	449 362	553 152	310 290	583 158
Other coal	4 866 783	5 442 327	9 531 959	10 362 090	13 127 065
Lignite	4 406	8 946	18 057	30 307	35 973
Briquettes	3 932	3 986	10 960	25 788	60 548
Portugal					
Anthracite	30 688	44 447	48 793	28 472	21 454
Other coal	5 630 721	4 733 158	3 721 513	4 922 698	2 648 704
Romania					
Anthracite	60 272	68 924	110 484	56 296	72 776
Other coal	3 398 344	4 421 709	3 008 391	937 077	936 727
Lignite	620 251	575 514	121 227	62 469	718
Briquettes	95	237 051	148 890	102 372	96 428
Slovakia					
Anthracite	38 147	176 682	258 597	264 286	293 054
Other coal	4 411 685	4 802 258	4 253 530	3 828 520	3 078 570
Lignite	889 241	725 586	983 151	693 786	563 021
Briquettes	12 150	5 813	6 733	7 877	12 799

Coal

Imports continued

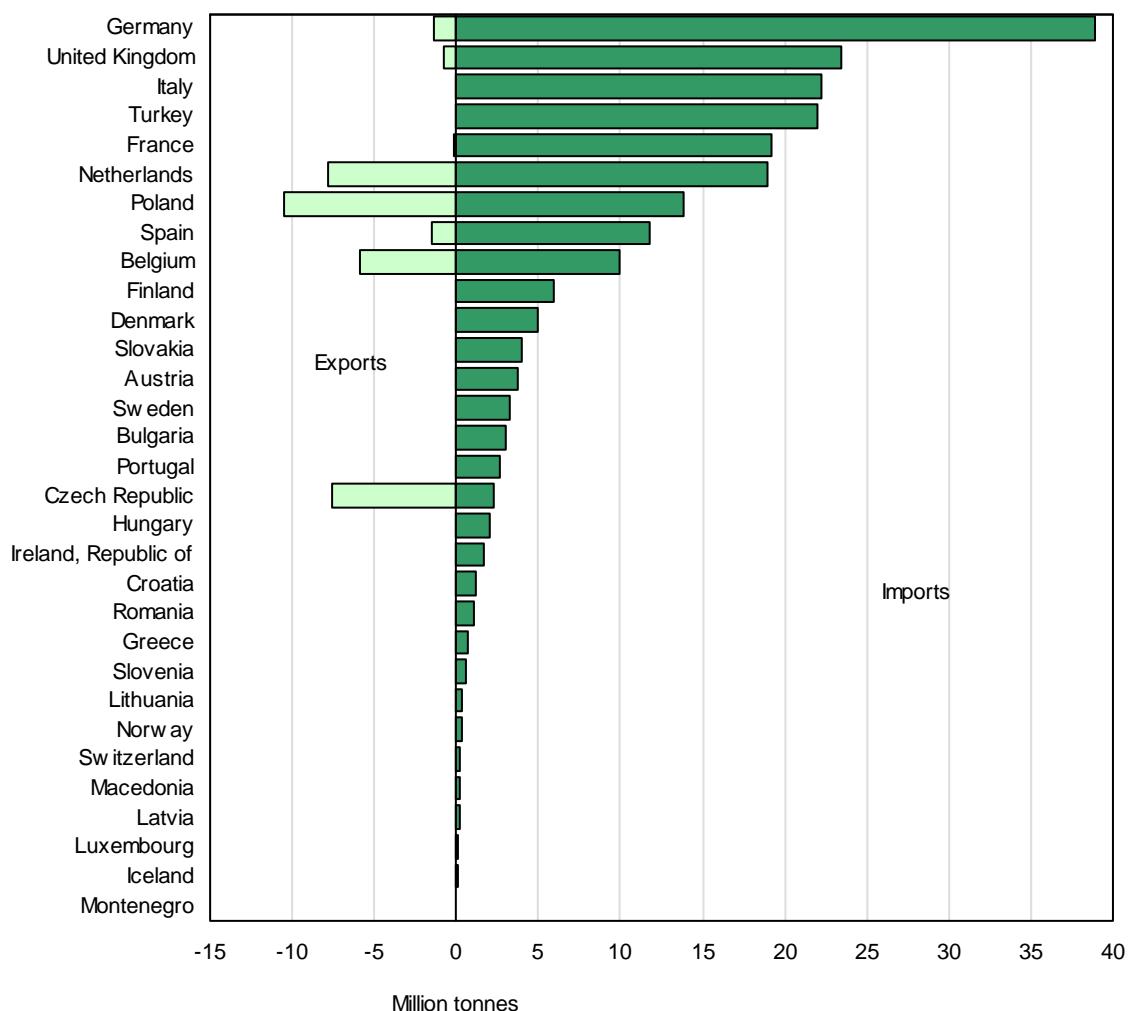
tonnes

Country	2006	2007	2008	2009	2010
Slovenia					
Hard coal (a)	47 221	83 100	74 508	33 143	26 873
Lignite	614 851	567 139	833 308	507 013	544 523
Briquettes	729	233	1 267	1 540	1 654
Spain					
Anthracite	2 508 261	1 019 341	957 293	767 027	846 015
Other coal	21 196 872	23 420 766	20 010 533	15 967 793	10 983 379
Sweden					
Anthracite	28 506	25 832	36 163	20 373	48 767
Other coal	3 003 919	3 154 331	2 811 668	1 831 397	3 236 437
Briquettes	27 164	287	9 029	33	43
Switzerland					
Anthracite	7 978	9 539	18 721	5 444	7 164
Other coal	143 425	214 684	132 824	172 990	124 096
Lignite	86 762	84 654	80 814	66 483	62 756
Briquettes	4 584	3 908	3 986	4 933	3 328
Turkey					
Anthracite	502 178	530 393	707 425	457 575	972 425
Other coal	14 658 368	13 850 371	18 781 879	19 501 679	21 048 121
Lignite	...	...	...	...	5 339
United Kingdom					
Anthracite	125 011	135 941	213 318	207 327	187 246
Other coal	49 544 012	43 024 560	43 038 043	36 553 574	23 227 529
Lignite	824	10	20	0	96
Briquettes	9 995	6 501	14 131	9 021	11 169

Note(s)

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

Coal - EU34 trade in 2010



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 2010, with 67 per cent of the world total. China (6.2 per cent), Zambia (4.9 per cent), Australia (4.6 per cent) and Canada (4.4 per cent) were the next largest producers. Within the EU34, Finland produces a very small amount of mined cobalt.

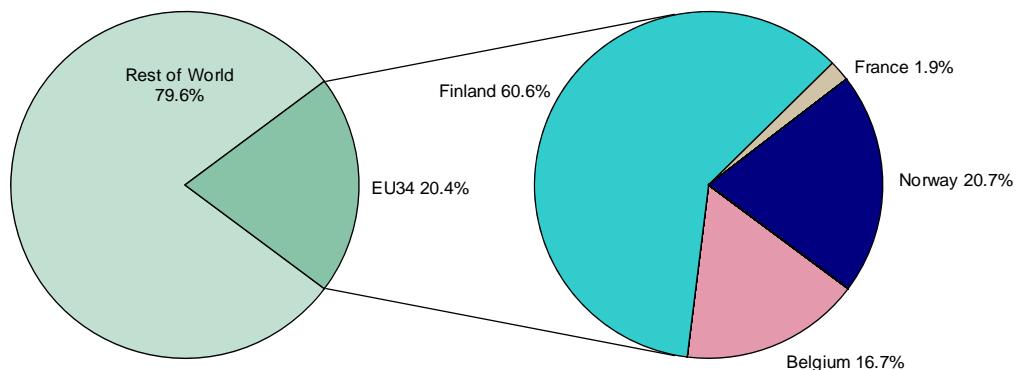
China was the world's largest producer of cobalt metal, producing 43 per cent of the world total in 2010, up from 24 per cent in 2006. Finland was the second largest world producer, with 12 per cent. Altogether, the EU34 contributed 20 per cent to the world's total output of cobalt metal.

Mine production of cobalt

tonnes (metal content)

Country	2006	2007	2008	2009	2010
Finland	* 100	* 120	* 100	* 27	* 30

EU34 Production of cobalt metal 2010



Production of cobalt metal

tonnes

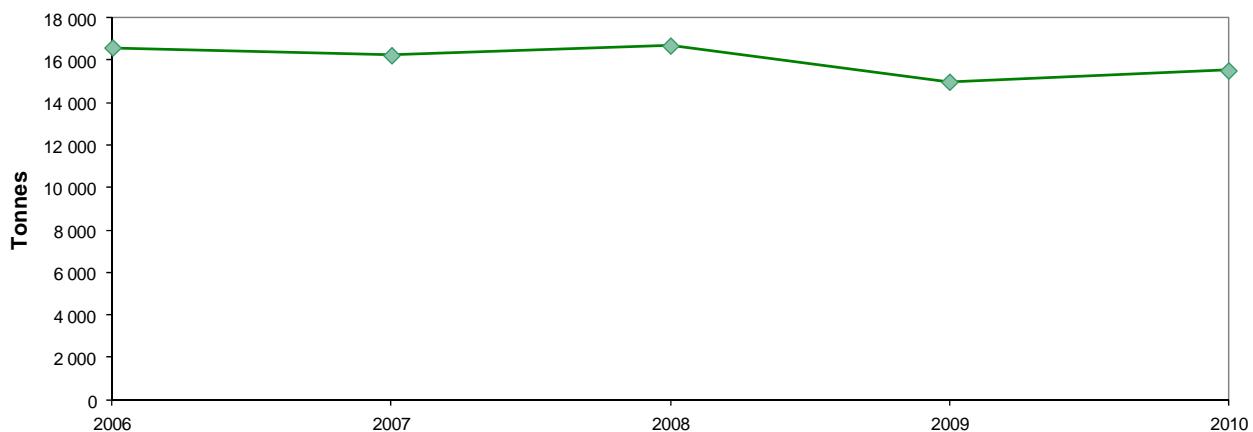
Country	2006	2007	2008	2009	2010
Belgium (a)	2 840	2 825	3 020	2 150	2 600
Finland	8 582	9 173	9 645	8 962	9 413
France	256	305	311	368	302
Norway	4 927	3 939	3 719	3 510	3 208
EU34 Total	16 600	16 200	16 700	15 000	15 500

Note(s)

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

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

EU34 Production of cobalt metal 2006 - 10



Exports of cobalt

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal	10	19	31	60	72
Belgium					
Ore	197	1 204	1 112	1 227	633
Metal (a)	* 5 800	* 21 600	* 7 000	* 4 700	* 4 400
Finland					
Metal (a)	* 5 700	* 5 700	* 5 700	* 4 500	* 3 900
Oxides (a)	* 2 200	* 2 400	* 2 600	* 3 100	* 5 400
France					
Metal	709	1 006	859	706	785
Oxides	68	91	28	50	3
Germany					
Ore	...	457	145	103	88
Metal	1 602	2 067	1 588	1 067	1 481
Oxides	140	158	158	69	102
Ireland, Republic of					
Metal	43	45	47	145	234
Oxides	38	152	0	—	—
Italy					
Metal	224	168	220	205	187
Oxides	77	223	235	141	206
Netherlands					
Metal	587	1 579	1 090	353	1 733
Oxides	112	127	959	65	144
Norway					
Metal	4 990	4 030	3 731	3 550	3 325
Poland					
Oxides	3	5	24	64	8
Slovenia					
Metal	16	31	24	50	65
Spain					
Oxides	30	56	7	33	19
Sweden					
Metal	110	152	67	285	220
Switzerland					
Metal	105	94	120	70	80
United Kingdom					
Metal	1 695	2 300	2 614	2 572	1 780
Oxides	750	689	798	891	1 267

Note(s)

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

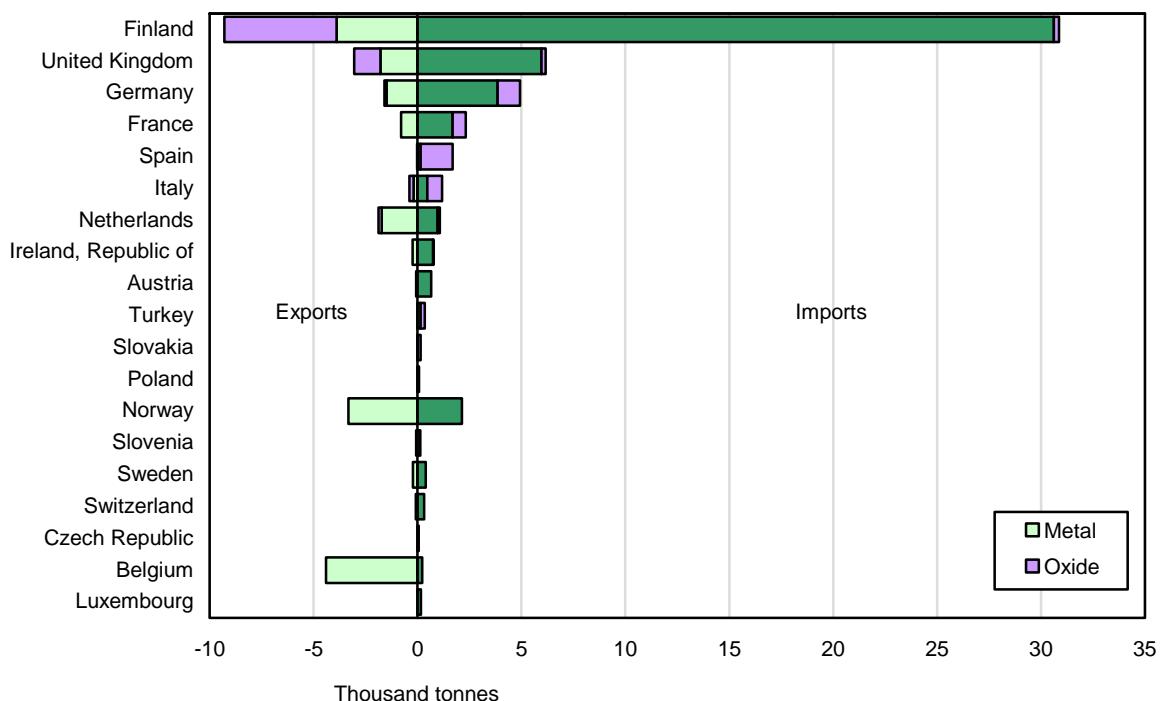
Cobalt

Imports of cobalt

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal	438	631	740	331	653
Oxides	7	4	40	5	10
Belgium					
Ore	107	121	185	272	156
Metal	1 374	275	255	249	222
Czech Republic					
Metal	84	108	199	220	60
Finland					
Ore	31 186	26 449	26 500	15 146	9 867
Metal	26 928	27 590	36 405	24 002	30 623
Oxides	186	346	167	46	233
France					
Metal	2 117	3 137	2 251	1 203	1 681
Oxides	562	658	574	578	635
Germany					
Ore	...	12	15	42	115
Metal	3 532	3 150	2 921	2 017	3 864
Oxides	759	898	1 057	902	1 069
Greece					
Metal	30	42	123	14	3
Ireland, Republic of					
Ore	35	571	36	28	10
Metal	464	298	622	777	756
Oxides	43	7	4	30	5
Italy					
Metal	587	626	703	632	477
Oxides	1 161	1 682	561	473	707
Luxembourg					
Metal	120	212	243	11	163
Netherlands					
Metal	1 511	1 270	1 124	* 491	962
Oxides	269	489	244	54	118
Norway					
Metal	6 362	3 871	3 131	3 012	2 132
Oxides	2	...	...	155	—
Poland					
Metal	52	69	51	53	52
Oxides	63	18	30	15	18
Romania					
Oxides	14	29	6	37	41
Slovakia					
Metal	13	37	1 020	19	7
Oxides	...	0	0	5 327	137
Slovenia					
Metal	209	96	93	149	141
Spain					
Metal	180	121	131	135	144
Oxides	1 254	1 187	1 038	3 294	1 543
Sweden					
Metal	743	676	698	189	396
Switzerland					
Metal	408	454	386	243	318
Turkey					
Metal	186	176	148	125	145
Oxides	165	142	152	150	199
United Kingdom					
Ore	24	0	72	200	143
Metal	4 427	5 422	5 395	3 928	5 963
Oxides	195	180	138	168	198

Cobalt - EU34 trade in 2010

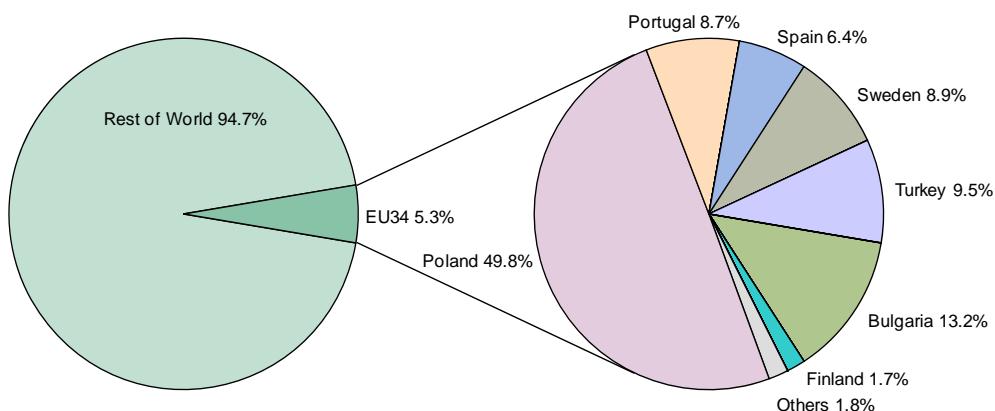


Copper

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 2010 was dominated by Chile (33 per cent) although copper is mined in many countries. Chile (17 per cent of total) was the second largest refined copper producer in the world after China (24 per cent). The EU34 countries contributed five 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 EU34 (50 per cent of the EU34 total) and second largest refined metal producer (20 per cent), after Germany (26 per cent) where refined copper production is based on imported materials.

EU34 Mine production of copper 2010



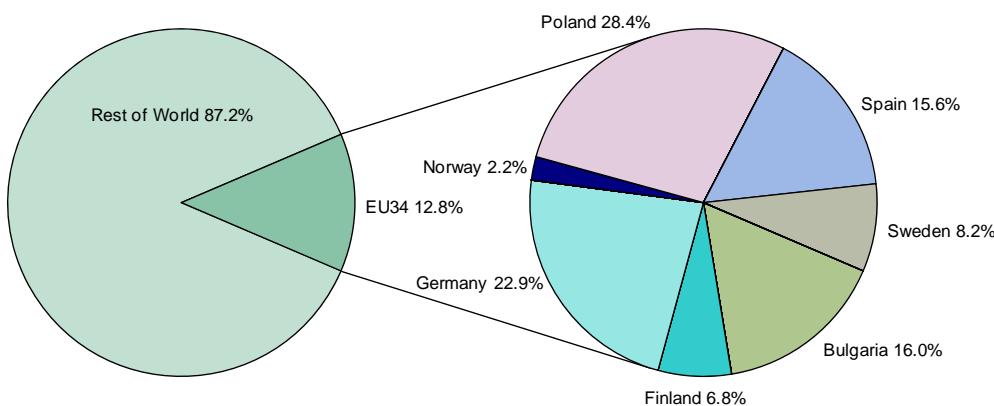
Mine production of copper

tonnes (metal content)

Country	2006	2007	2008	2009	2010
Bulgaria	123 571	116 157	107 195	110 652	112 904
Cyprus	900	2 900	3 000	2 500	2 600
Finland	13 000	13 600	13 300	14 600	14 700
Macedonia	7 054	7 029	8 051	7 440	7 900
Poland	497 200	451 900	429 687	439 365	425 725
Portugal	78 576	90 182	89 026	86 462	74 011
Romania	12 535	2 213	308	3 129	5 127
Spain	8 700	6 281	7 071	17 663	54 329
Sweden	86 746	62 905	57 688	55 414	76 514
Turkey	46 400	81 000	83 000	87 070	81 500
EU34 Total	875 000	834 000	798 000	824 000	855 000

EU34 Mine production of copper 2006 - 10



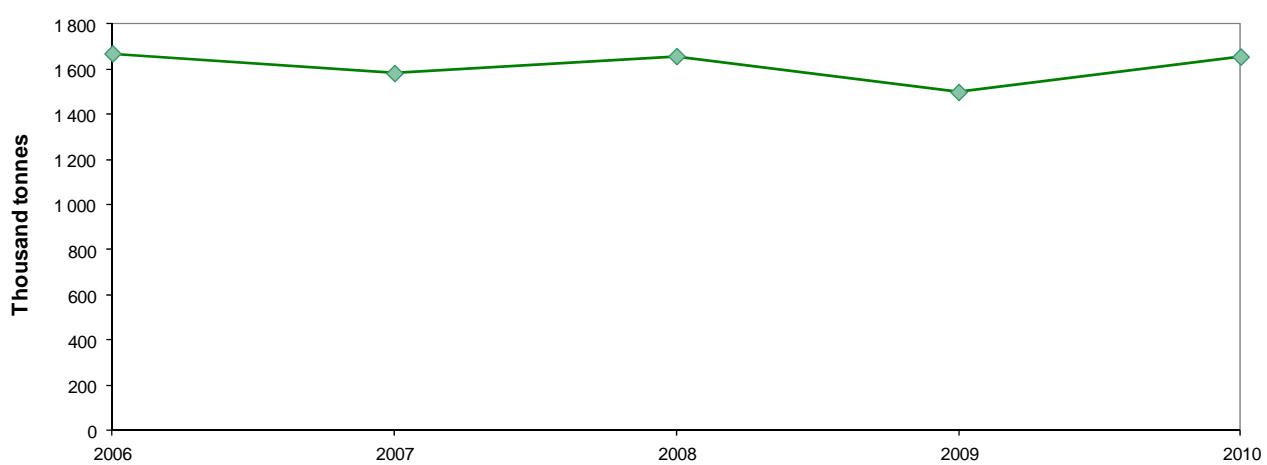
EU34 Smelter production of copper 2010**Smelter production of copper**

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	217 000	217 600	257 100	256 200	265 000
Finland	164 306	118 911	142 154	110 479	112 687
Germany	273 800	270 200	295 000	251 000	378 700
Norway	39 700	34 200	37 000	33 900	36 200
Poland	555 907	518 303	492 942	457 510	469 656
Spain	263 662	257 348	259 897	264 971	259 119
Sweden	129 951	148 835	136 409	125 398	135 125
Turkey	26 300	17 900	38 000	—	—
EU34 Total	1 671 000	1 583 000	1 659 000	1 499 000	1 656 000

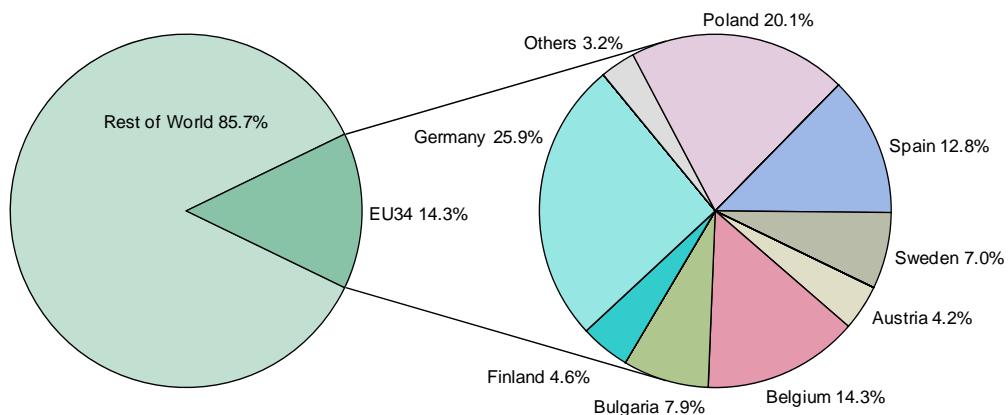
Note(s)

- (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

EU34 Smelter production of copper 2006 - 10

Copper

EU34 Production of refined copper 2010



Production of refined copper

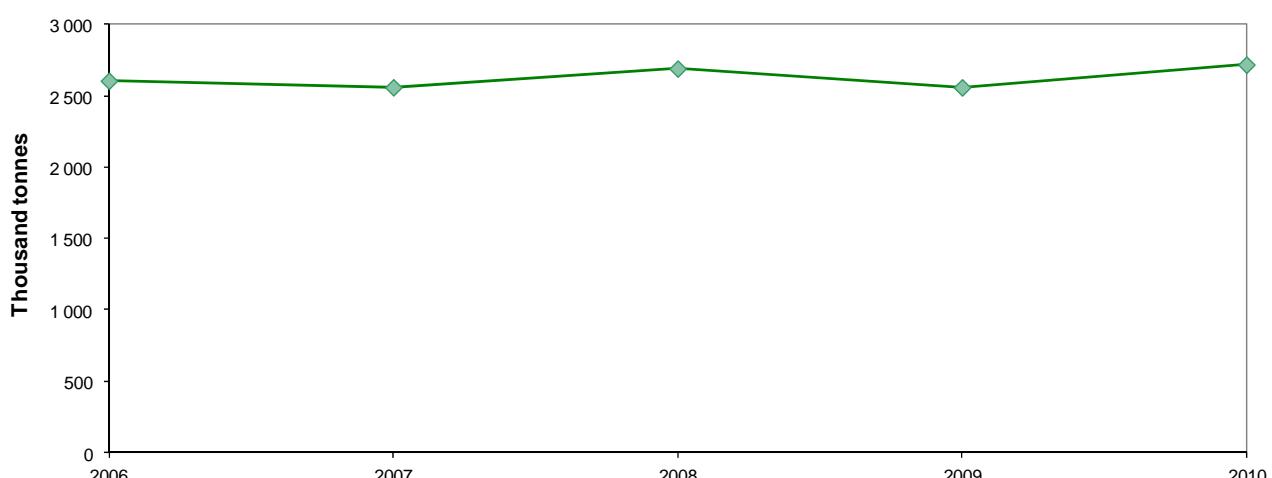
tonnes

Country	2006	2007	2008	2009	2010
Austria	72 600	81 400	106 700	96 200	113 700
Belgium	378 600	394 000	395 800	373 700	389 000
Bulgaria	65 500	69 900	126 700	196 900	215 100
Cyprus	880	3 012	2 986	2 380	2 595
Finland	137 961	109 870	131 249	105 549	124 000
Germany	662 338	665 517	689 763	668 945	704 300
Italy	36 400	28 600	24 200	6 500	1 800
Norway	39 700	34 200	37 000	33 900	36 200
Poland	556 625	532 975	526 808	502 462	547 074
Romania	21 583	18 589	15 300	4 600	—
Spain	299 146	308 372	319 050	329 356	347 518
Sweden	229 241	213 894	227 774	205 759	190 497
Turkey	105 800	99 600	88 000	33 500	47 300
EU34 Total	2 606 000	2 560 000	2 691 000	2 560 000	2 719 000

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

EU34 Production of refined copper 2006 - 10



Exports of copper

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Matte and cement	651	2 323	719	6 218	960
Unwrought	84 104	82 985	114 978	115 697	142 768
Unwrought alloys	2 509	1 239	938	1 058	804
Scrap	39 169	38 642	35 582	50 748	52 702
Belgium					
Ores and concentrates	1 778	1 061	2 155	4 594	4 549
Matte and cement	1 026	1 104	4 139	2 432	6 935
Unwrought, unrefined	8 833	10 730	10 533	11 570	42 836
Unwrought, refined	236 804	199 650	257 907	248 500	189 253
Unwrought alloys	13 420	14 593	10 954	9 253	12 116
Scrap	163 418	188 318	162 090	110 355	141 380
Bulgaria					
Ores and concentrates	193 389	168 155	105 889	134 910	86 171
Matte and cement	4 818	6 335	3 559	4 749	5 048
Unwrought	210 520	185 012	252 018	226 404	214 234
Scrap	13 163	11 590	10 547	10 717	18 226
Croatia					
Scrap	12 105	12 378	10 884	10 202	13 329
Cyprus					
Unwrought	879	3 006	2 986	2 449	2 550
Scrap	2 684	2 122	2 381	3 400	4 619
Czech Republic					
Unwrought	12 651	10 301	7 829	14 645	14 557
Scrap	57 152	58 534	63 825	105 230	123 688
Denmark					
Scrap	31 076	31 569	33 421	31 711	30 006
Estonia					
Scrap	11 801	7 784	8 185	5 633	6 915
Finland					
Unwrought, unrefined	34 962	10 490	27 525	37 084	35 132
Unwrought, refined	55 239	32 956	67 908	40 864	57 665
Unwrought alloys	1 533	587	423	275	304
Scrap	31 182	32 872	32 585	32 762	32 819
France					
Matte and cement	79	331	252	720	102
Unwrought	47 839	67 765	55 405	60 428	35 979
Unwrought alloys	9 680	13 140	13 049	9 455	12 786
Scrap	290 528	284 890	266 930	235 277	292 631
Germany					
Ores and concentrates	54 167	61 535	48 234	58 932	48 761
Matte and cement	101	24	2	1	8 431
Unwrought, unrefined	3 244	105	182	88	104
Unwrought, refined	146 137	117 596	124 980	194 016	136 006
Unwrought alloys	22 941	22 436	16 485	9 781	13 276
Scrap	465 264	480 700	478 643	449 990	578 448
Greece					
Unwrought, refined	2 541	1 944	356	2 748	825
Unwrought alloys	1 142	995	1 198	1 071	2 097
Scrap	16 889	14 669	12 314	15 742	21 994
Hungary					
Unwrought alloys	...	...	989	314	571
Scrap	27 051	23 394	20 958	19 120	15 319
Ireland, Republic of					
Ores and concentrates	922	1 024	49	—	621
Scrap	15 784	9 836	21 421	23 305	13 172
Italy					
Matte and cement	1 511	2 244	911	90	61
Unwrought	13 567	22 424	13 381	30 548	15 938
Unwrought alloys	14 620	20 830	15 268	12 787	15 553
Scrap	102 463	120 231	148 923	158 062	167 424
Latvia					
Unwrought	2 734	3 272	4 117	2 518	726
Scrap	7 116	7 309	6 900	6 138	7 106
Lithuania					
Scrap	5 020	4 814	4 675	3 375	4 128

Copper

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Luxembourg					
Scrap	8 349	6 348	2 412	1 787	2 492
Unwrought alloys	4 042	488	—	11	7
Macedonia					
Ores and concentrates (a)	* 36 000	* 35 000	* 41 000	* 39 000	* 41 000
Scrap	3 190	2 277	2 302	2 029	576
Malta					
Scrap	1 036	1 790	1 890	1 828	919
Montenegro					
Scrap	1 379	1 480	1 356	1 029	1 769
Netherlands					
Unwrought	31 204	49 300	65 343	29 260	22 484
Scrap	306 132	229 090	241 332	143 329	283 847
Norway					
Unwrought	38 232	34 007	36 734	32 927	35 975
Unwrought alloys	1 141	1 161	756	570	546
Scrap	24 205	24 066	22 561	25 339	37 829
Poland					
Matte and cement	6 774	2 187	2 989	1 515	956
Unwrought	287 666	239 508	296 738	325 395	332 989
Unwrought alloys	6 205	6 397	5 469	2 358	1 180
Scrap	55 285	64 377	63 779	64 606	68 686
Portugal					
Ores and concentrates	328 296	399 589	375 755	371 881	305 485
Unwrought	918	227	600	2 098	1 887
Scrap	29 736	24 566	22 184	20 213	24 491
Romania					
Ores and concentrates	72 900	23 689	33 391	6 711	31 582
Matte and cement	2 818	11 569	8 494	4 502	956
Scrap	41 911	35 856	39 733	42 148	49 248
Slovakia					
Unwrought	27 178	34 232	35 141	29 972	35 007
Scrap	18 821	23 502	21 144	15 114	15 550
Slovenia					
Unwrought	244	163	244	1 376	7 042
Scrap	15 922	17 810	15 606	17 991	29 276
Spain					
Ores and concentrates	5 835	905	463	110 724	221 429
Unwrought, unrefined	45 906	37 210	41 676	38 761	33 973
Unwrought, refined	38 205	48 288	85 899	108 716	151 204
Unwrought alloys	10 590	12 679	12 139	12 150	15 881
Scrap	84 570	88 429	83 820	100 498	102 236
Sweden					
Unwrought, refined	86 726	65 926	70 047	77 739	71 332
Unwrought alloys	6 443	8 837	5 610	3 181	8 563
Scrap	45 456	54 673	57 245	55 603	43 311
Switzerland					
Unwrought	1 036	1 002	1 159	623	832
Scrap	74 079	75 542	82 687	71 204	75 973
Turkey					
Ores and concentrates	68 286	36 046	251 958	356 922	421 536
Unwrought	13 876	11 813	41 780	6 742	8 871
Scrap	12 630	8 920	9 670	16 426	12 426
United Kingdom					
Matte and cement	515	16	28	14	33
Unwrought, unrefined	153	786	3 066	205	185
Unwrought, refined	5 969	8 489	4 850	14 059	8 863
Unwrought alloys	17 251	18 142	17 822	11 839	12 782
Scrap	311 058	346 361	358 981	429 467	421 868

Note(s)

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

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

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

Imports of copper

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Unwrought, unrefined	26 508	26 678	39 590	24 445	36 218
Unwrought, refined	29 298	20 614	8 855	4 868	10 361
Unwrought alloys	2 979	2 485	1 866	1 617	1 412
Scrap	88 684	91 043	113 109	134 063	145 903
Belgium					
Ores and concentrates	17 263	21 137	12 039	17 378	10 554
Matte and cement	1 111	6 310	4 482	36 352	29 857
Unwrought, unrefined	267 505	224 439	206 660	212 932	191 159
Unwrought, refined	21 817	28 695	54 380	79 524	61 447
Unwrought alloys	1 082	2 692	1 749	2 669	4 917
Scrap	300 259	312 885	249 718	215 202	272 816
Bulgaria					
Ores and concentrates	581 055	539 325	609 258	635 039	575 192
Matte and cement	5 003	10 025	34 997	15 160	13 642
Unwrought	19 735	28 226	30 422	8 016	8 272
Scrap	7 784	12 899	23 856	20 730	35 464
Czech Republic					
Unwrought	5 412	15 156	11 474	21 475	6 846
Unwrought alloys	2 909	3 755	3 862	3 050	3 674
Scrap	8 104	8 966	8 677	9 639	11 804
Denmark					
Unwrought	4 081	2 901	2 818	1 413	1 978
Scrap	14 646	9 187	11 235	10 388	9 125
Finland					
Ores and concentrates	544 149	448 119	536 584	352 370	458 174
Unwrought	21	2 777	2 490	16 298	4 212
Unwrought alloys	3 996	4 178	3 542	2 415	2 783
Scrap	1 259	2 644	4 146	7 349	6 967
France					
Unwrought	506 996	432 225	435 455	265 766	227 271
Unwrought alloys	11 029	14 389	8 987	7 980	9 242
Scrap	97 462	90 195	81 036	50 753	72 220
Germany					
Ores and concentrates	1 148 316	1 300 491	1 088 291	1 252 430	1 128 472
Matte and cement	30 463	14 880	10 102	4 133	12 739
Unwrought, unrefined	41 589	31 830	24 706	46 840	23 331
Unwrought, refined	881 427	844 747	833 354	658 703	743 934
Unwrought alloys	36 770	48 261	40 073	38 538	36 249
Scrap	552 413	595 751	563 560	454 753	626 442
Greece					
Unwrought	106 404	105 722	79 928	57 367	63 443
Unwrought alloys	4 439	6 855	9 393	305	241
Scrap	2 141	10 148	18 628	11 245	20 017
Hungary					
Unwrought	2 175	2 492	3 016	2 168	3 637
Scrap	571	1 405	5 933	10 091	4 038
Iceland					
Unwrought, refined	4 512	201	2	3	3
Ireland, Republic of					
Ores and concentrates	...	21	30 176	42 945	2
Italy					
Unwrought, unrefined	323	796	370	438	499
Unwrought, refined	774 140	746 482	617 420	544 197	627 826
Unwrought alloys	15 174	24 996	18 531	8 166	14 679
Scrap	214 289	177 546	167 212	91 519	129 074
Latvia					
Unwrought	1 199	1 396	3 609	3 049	712
Luxembourg					
Scrap	22 330	15 791	8 833	7 533	10 708
Netherlands					
Unwrought, unrefined	18 333	18 130	26	2 678	7 194
Unwrought, refined	147 428	151 515	35 077	33 771	26 982
Unwrought alloys	2 214	3 379	2 440	1 329	2 101
Scrap	110 753	117 259	116 503	—	144 426

Copper

Imports continued

tonnes

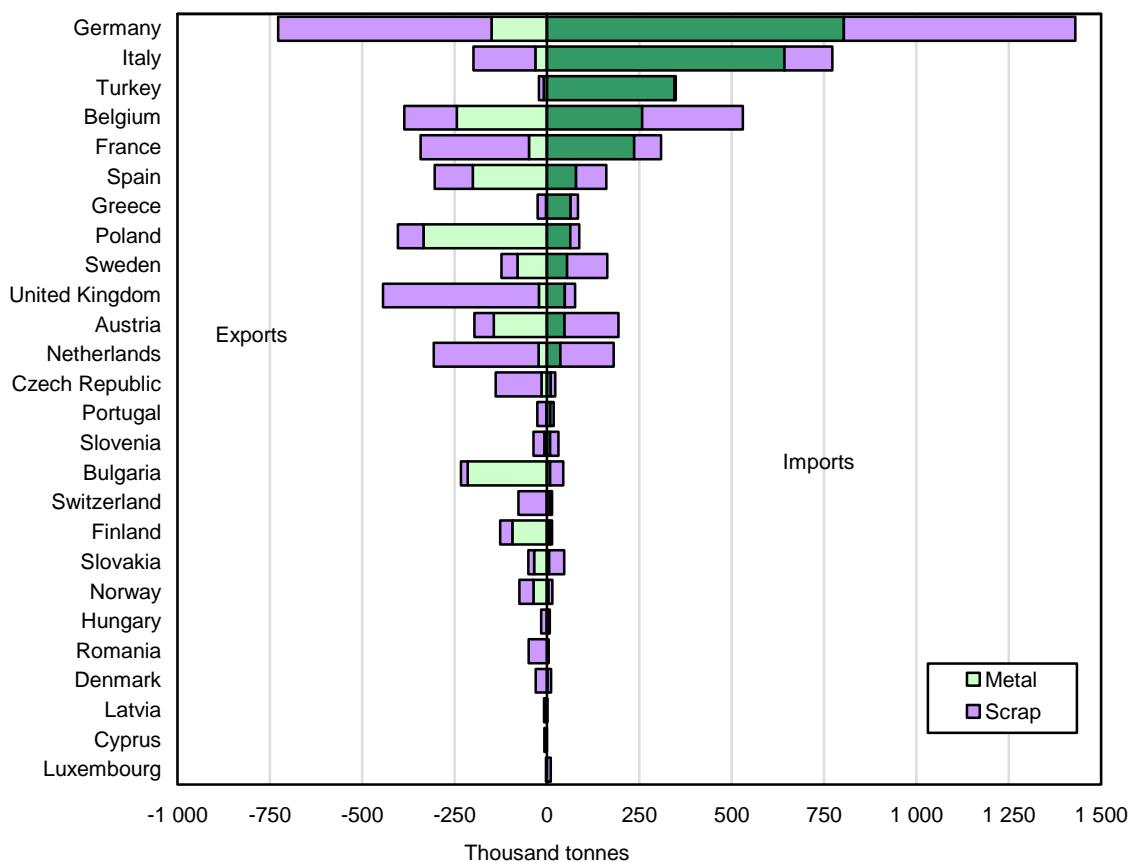
Country	2006	2007	2008	2009	2010
Norway					
Unwrought	3 133	3 650	3 133	1 627	4 609
Scrap	12 759	13 486	11 189	9 727	9 891
Poland					
Ores and concentrates	112 708	61 319	62 443	78 027	38 000
Matte and cement	5 310	10 062	—	—	612
Unwrought, unrefined	31 609	23 880	33 376	40 030	33 717
Unwrought, refined	5 493	7 024	6 629	13 838	26 944
Unwrought alloys	3 797	4 516	3 012	2 408	2 813
Scrap	4 885	18 596	19 269	22 153	24 316
Portugal					
Unwrought	5 752	5 309	5 534	8 480	9 661
Scrap	5 946	8 503	10 229	7 550	8 819
Romania					
Unwrought	12 794	25 093	22 116	10 926	2 282
Scrap	2 946	1 710	4 197	437	2 443
Slovakia					
Matte and cement	1 071	...	...	3 300	799
Unwrought	2 084	1 557	4 120	4 685	6 153
Scrap	17 973	17 476	17 350	29 141	40 347
Slovenia					
Unwrought	3 150	2 809	2 649	2 826	8 369
Scrap	9 000	10 431	9 687	11 452	22 407
Spain					
Ores and concentrates	1 100 338	1 001 284	1 122 093	1 184 321	1 229 148
Unwrought, unrefined	2 631	1 032	3 733	3 133	518
Unwrought, refined	62 982	56 237	79 125	80 898	73 904
Unwrought alloys	5 898	5 417	4 352	3 473	3 947
Scrap	89 252	56 754	65 765	68 166	82 931
Sweden					
Ores and concentrates	267 753	420 050	393 295	362 803	302 514
Unwrought, unrefined	35 496	10 495	23 539	22 072	3 100
Unwrought, refined	41 036	31 535	21 123	23 107	46 383
Unwrought alloys	3 944	5 867	5 239	2 040	5 181
Scrap	54 483	81 015	91 839	96 542	108 971
Switzerland					
Unwrought	4 843	5 960	5 903	3 473	3 229
Unwrought alloys	4 695	4 089	3 925	3 276	4 137
Scrap	7 641	7 995	5 266	2 710	6 061
Turkey					
Ores and concentrates	18 111	32	3 884	0	1 329
Unwrought, unrefined	54 790	34 389	38 116	4 852	5 892
Unwrought, refined	150 412	128 077	287 705	289 672	332 482
Unwrought alloys	2 160	1 975	3 060	2 828	6 601
Scrap	6 602	3 013	1 263	870	3 943
United Kingdom					
Ores and concentrates	2 571	1 676	699	581	189
Matte and cement	15	2	14	1	22
Unwrought, unrefined	264	7 401	5 529	3 034	2 039
Unwrought, refined	183 727	46 820	47 716	45 249	40 708
Unwrought alloys	6 399	6 202	5 721	4 066	5 688
Scrap	19 744	21 852	21 132	18 549	27 495

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 - EU34 trade in 2010



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 Botswana and Democratic Republic of Congo) dominates world production with 57 per cent of all carats produced in 2010. However, Russia is the world's largest producing country (26 per cent of world production). Canada and Australia are also significant diamond producers. There is no mine production of diamond in the EU34 but production of synthetic diamonds is important and Europe is a world centre for diamond trading.

Exports of diamond

Carats

Country	2006	2007	2008	2009	2010
Austria					
Unsorted	£211 000	£85 000	£71 000	£189 000	£729 000
Gem, cut	£3 157 000	£2 792 000	£5 778 000	£4 053 000	£3 564 000
Dust	£45 000	£115 000	£165 000	£260 000	£225 000
Belgium					
Gem, rough	128 000 000	135 000 000	99 500 000	85 500 000	113 000 000
Gem, cut	4 500 000	8 001 010	5 950 000	5 178 000	6 034 000
Industrial	...	1 000 000	500 000	1 670 000	3 320 000
Dust	35 500 000	27 000 000	23 000 000	18 000 000	31 500 000
Czech Republic					
Gem, cut	£451 000	£529 000	£3 947 000	£3 046 000	£4 465 000
France					
Unsorted	40 105	22 863	9 386	8 723	3 743
Gem	164 433	227 372	293 420	394 845	146 000
Dust	1 069 100	428 165	838 620	940 610	1 609 470
Germany					
Unsorted (a)	* £994 000	* £760 000	* £1 285 000	* £775 000	* £863 000
Gem	175 658	157 055	153 893	125 735	...
Dust	27 074 465	3 366 830	3 410 935	2 560 000	5 355 000
Italy					
Gem, cut	105 514	131 174	149 203	155 195	243 170
Dust	18 028 081	66 016 904	10 384 560	1 550 895	15 054 770
Netherlands					
Unsorted	£849 000	£1 000 000	£442 000	£494 000	£371 000
Gem, cut	£8 997 000	£6 214 000	£7 567 000	£3 780 000	£3 132 000
Industrial	£2 250 000	£1 891 000	£2 156 000	£1 415 000	£2 179 000
Dust	£61 000	£82 000	£45 000	£196 000	£51 000
Portugal					
Gem, cut	£8 000	£105 000	£55 000	£52 000	£550
Spain					
Unsorted	£531 000	£346 000	£503 000	£266 000	£292 000
Gem, cut	£61 119 000	£8 478 000	£6 631 000	£5 328 000	£7 350 000
Industrial	£331 000	£208 000	£498 000	£171 000	£210 000
Dust	210 000	254 600	630 000	180 000	875 000
Switzerland					
Gem, rough	119 619	4 360	5 000	1 230	10 000
Gem, cut	543 079	559 591	360 000	75 000	165 000
Industrial	76 604	12 100	15 000	7 139	7 902
Dust	128 180 000	40 985 000	44 105 000	30 400 000	60 980 000
Turkey					
Dust	£15 000	£28 000	£146 000	£128 000	£152 000

Exports continued

Carats

Country	2006	2007	2008	2009	2010
United Kingdom					
Unsorted	3 544 216	5 307 857	3 388 395	4 090 534	3 689 202
Gem, rough	88 991 279	84 573 134	66 479 817	43 775 775	51 769 860
Gem, cut	2 341 635	477 463	795 612	257 202	283 435
Industrial	13 652 233	4 754 029	6 121 081	4 440 922	2 478 568
Dust	111 788 350	104 552 775	122 681 695	105 427 132	113 451 535

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	2006	2007	2008	2009	2010
Austria					
Unsorted	£978 000	£957 000	£1 648 000	£543 000	£729 000
Gem, cut	£5 892 000	£6 405 000	£8 881 000	£9 795 000	£9 838 000
Industrial	£841 000	£884 000	£473 000	£313 000	£193 000
Dust	28 000 000	26 000 000	33 000 000	17 000 000	30 000 000
Belgium					
Unsorted	775 000	854 021	526 381	495 270	462 450
Gem, rough	67 180 000	63 500 000	55 000 000	44 000 000	63 000 000
Gem, cut	6 810 000	3 000 000	4 500 000	500 000	3 000 000
Industrial	12 300 000	7 500 000	8 000 000	3 500 000	3 000 000
Dust	58 220 000	17 000 000	63 000 000	35 000 000	61 000 000
Bulgaria					
Dust	...	14 770 306	7 623 860	4 940 300	7 251 395
Cyprus					
Gem, cut	£1 387 000	£1 311 000	£1 564 000	£1 724 000	£955 000
Industrial	£1 072 000	£1 042 000	£1 311 000	£587 000	£1 007 000
Czech Republic					
Gem, cut	18 182	5 837	116 669	7 306	5 567
Industrial	30 377	43 006	30 181	7 640	5 061
Dust	£867 000	£884 000	£1 369 000	£977 000	£1 704 000
Denmark					
Unsorted	£686 000	£928 000	£1 168 000	£40 000	£255 000
Gem, cut	£7 252 000	£8 473 000	£7 424 000	£4 680 000	£5 339 000
Industrial	£184 000	£388 000	£104 000	£223 000	£59 000
Dust	769 511	1 056 203	791 502	10 000 000	500 000
Finland					
Gem, cut	£3 264 000	£3 004 000	£3 698 000	£3 133 000	£3 575 000
Dust	620 000	682 850	625 200	273 415	519 830
France					
Unsorted	45 393	32 997	18 648	15 326	9 402
Gem, rough	729	656	344	1 854	469
Gem, cut	331 348	439 204	450 568	691 852	468 867
Industrial	44 334	81 570	73 641	40 221	30 480
Dust	10 037 456	8 984 745	13 938 146	9 314 960	12 512 821
Germany					
Gem	487 354	515 262	709 636	301 075	371 176
Industrial	1 554 184	1 090 991	505 400	212 000	137 000
Dust	53 291 240	45 596 025	45 914 930	25 210 000	60 060 000
Greece					
Unsorted	20 035 000	7 000 000	116 000 000	1 000 000	900 000
Gem, rough	55 000	205 000	425 000	3 365 000	920 000
Gem, cut	10 075 000	9 470 000	2 815 000	6 370 000	8 365 000
Industrial	9 720 000	11 355 000	22 810 000	43 195 000	4 330 000
Dust	10 550 000	17 573 974	17 713 060 000	2 803 695 000	370 000

Diamond

Imports continued

Carats

Country	2006	2007	2008	2009	2010
Hungary					
Gem, cut	£246 000	£52 000	£220 000	£167 000	(a)* £280 000
Industrial (a)	* £327 900	* £290 200	* £293 900	* £104 900	* £245 900
Dust (a)	* 4 700 000	* 3 214 500	* 4 550 300	* 5 832 400	* 3 411 700
Ireland, Republic of					
Unsorted	67 655 000	42 460 000	17 535 000	4 935 000	3 600 000
Gem, rough	4 140 000	4 365 000	3 240 000	1 885 000	1 565 000
Gem, cut	44 635 000	46 100 000	28 020 000	18 170 000	11 385 000
Industrial	70 840 000	35 720 000	10 560 000	2 100 000	4 585 000
Dust	200 868 966	233 626 080	232 059 616	86 782 073	86 782 073
Italy					
Unsorted	150 000	915 000	1 905 000	355 000	990 000
Gem, rough	75 000	80 000	10 000	25 000	60 000
Gem, cut	4 855 000	14 560 000	12 135 000	9 875 000	13 935 000
Industrial	650 000	880 000	1 145 000	675 000	1 545 000
Dust	152 680 000	161 010 000	252 290 000	121 055 000	196 860 000
Luxembourg					
Unsorted	£58 000	£113 000	£24 000	£47 000	£20 000
Gem, cut	£218 000	£255 000	£595 000	£446 000	£418 000
Dust	£521 000	£519 000	£691 000	£227 000	£609 000
Montenegro					
Dust	65 000	5 000	75 000	30 000	10 000
Netherlands					
Unsorted	£225 000	£299 000	£803 000	£551 000	£80 000
Gem, rough	£369 000	£320 000	£1 071 000	£95 000	£47 000
Gem, cut	£22 397 000	£13 943 000	£17 750 000	£10 757 000	£15 248 000
Industrial	£1 850 000	£859 000	£1 088 000	£613 000	£624 000
Dust	3 998 115	1 089 105	791 805	426 830	290 475
Poland					
Industrial	31 323	150 918	237 903	169 851	29 305
Dust	* 3 200 000	3 149 550	27 584 081	263 119 707	1 970 015
Portugal					
Gem, cut	£2 940 000	£3 435 000	£3 949 000	£1 756 000	£2 039 000
Industrial	£381 000	£427 000	£296 000	£246 000	£111 000
Dust	4 641 090	8 473 445	5 891 661	5 514 973	10 086 701
Slovakia					
Gem, cut	£37 000	£88 000	£2 924 000	£1 993 000	£2 530 000
Dust	50 000	...	...	165 000	18 560 000
Slovenia					
Dust	1 287 165	1 670 284	1 395 416	723 391	1 656 306
Spain					
Unsorted	£4 616 000	£3 667 000	£1 959 000	£1 591 000	£1 814 000
Gem, cut	£47 084 000	£57 921 000	£40 012 000	£30 290 000	£26 488 000
Industrial	£2 701 000	£1 396 000	£1 485 000	£917 000	£275 000
Dust	7 000 000	67 062 395	42 938 192	30 861 760	27 500 320
Sweden					
Unsorted	£143 000	£141 000	£100 000	£23 000	£125 000
Gem, cut	8 573	9 465	10 938	8 709	(a)* 21 000
Industrial	188 546	224 486	217 127	6 907	(a)* 58 000
Dust	10 000 000	11 500 000	4 000 000	1 500 000	8 000 000
Switzerland					
Gem, rough	118 710	8 634	11 566	4 498	20 460
Gem, cut	1 112 264	1 209 708	1 147 690	534 700	840 245
Industrial	63 939	39 174	20 205	23 178	13 944
Dust	127 740 000	59 930 000	54 445 000	39 130 000	74 015 000
Turkey					
Gem	112 906	135 413	141 553	51 740	131 146
Industrial	44 601	36 999	102 596	29 724	46 890
Dust	13 675 000	9 835 000	18 430 000	19 120 000	25 190 000

Imports continued

Carats

Country	2006	2007	2008	2009	2010
United Kingdom					
Unsorted	14 408 621	13 661 786	10 283 610	8 348 854	8 703 907
Gem, rough	78 790 692	81 195 314	59 534 653	44 064 081	40 559 260
Gem, cut	7 370 573	973 433	1 343 330	868 406	761 455
Industrial	11 884 651	7 524 168	5 127 610	3 321 670	7 299 364
Dust	199 882 920	198 484 150	187 268 975	88 148 090	111 136 020

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

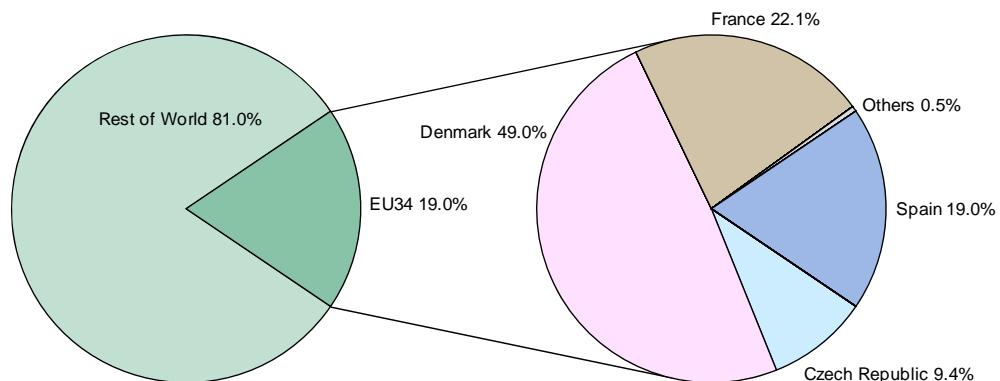
(a) BGS estimates, based on known exports from certain countries

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 33 per cent of the world production, followed by China with 22 per cent. EU34 production amounted to 19 per cent of world production in 2010. Production in the EU34 countries is dominated by Denmark, which produces 49 per cent of EU34 output, although this is moler, an impure diatomite.

EU34 Production of diatomite 2010



Production of diatomite

tonnes

Country	2006	2007	2008	2009	2010
Czech Republic	53 000	19 000	31 000	—	32 000
Denmark Moler (a)	196 000	201 000	210 000	168 000	166 000
France	* 75 000	* 75 000	* 75 000	75 000	75 000
Hungary	495	1 424	—	1 277	1 200
Poland	600	600	600	670	500
Romania	1 719	2 057	—	—	—
Spain (b)	52 123	45 480	46 192	29 194	64 346
EU34 Total	379 000	345 000	363 000	274 000	339 000

Note(s)

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

(b) Including Tripoli

EU34 Production of diatomite 2006 - 10**Exports of diatomite**

tonnes

Country	2006	2007	2008	2009	2010
Austria	4 171	4 455	3 043	3 286	3 467
Belgium	1 949	1 140	2 612	1 907	3 004
Czech Republic	4 566	1 094	4 128	3 789	4 231
Denmark (a)	* 71 500	* 63 600	* 67 800	* 57 500	* 57 300
France	24 866	29 607	23 239	21 713	26 822
Germany	11 500	7 949	7 189	5 035	5 361
Italy	1 110	3 884	9 991	10 392	6 716
Netherlands	1 395	348	301	1 365	359
Norway	281	566	770	6	1
Poland	527	774	277	85	111
Portugal	286	943	554	473	7 545
Spain	6 118	6 399	5 306	4 678	7 382
Sweden	568	3 497	749	693	829
Turkey	* 32 000	34 424	40 370	39 267	37 432
United Kingdom	687	1 238	903	533	1 650

Note(s)

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

Imports of diatomite

tonnes

Country	2006	2007	2008	2009	2010
Austria	11 693	13 710	12 561	16 327	13 324
Belgium	7 450	8 483	8 353	6 414	11 813
Bulgaria	1 156	436	587	404	249
Croatia	633	610	511	462	402
Czech Republic	2 288	3 318	4 768	3 173	2 753
Denmark	4 974	4 244	5 849	3 347	3 294
Finland	2 339	3 510	3 344	3 015	4 367
France	12 712	14 371	14 308	15 163	17 477
Germany	40 197	42 882	49 237	38 258	43 487
Greece	757	958	790	482	668
Hungary	1 476	2 111	1 110	796	957
Ireland, Republic of	943	859	1 458	1 243	640
Italy	5 179	4 487	3 939	2 497	3 920
Latvia	467	545	681	534	412
Lithuania	504	1 178	763	836	744
Luxembourg	1 167	159	1 492	7 054	7 858
Netherlands	6 799	7 214	6 275	3 794	4 641

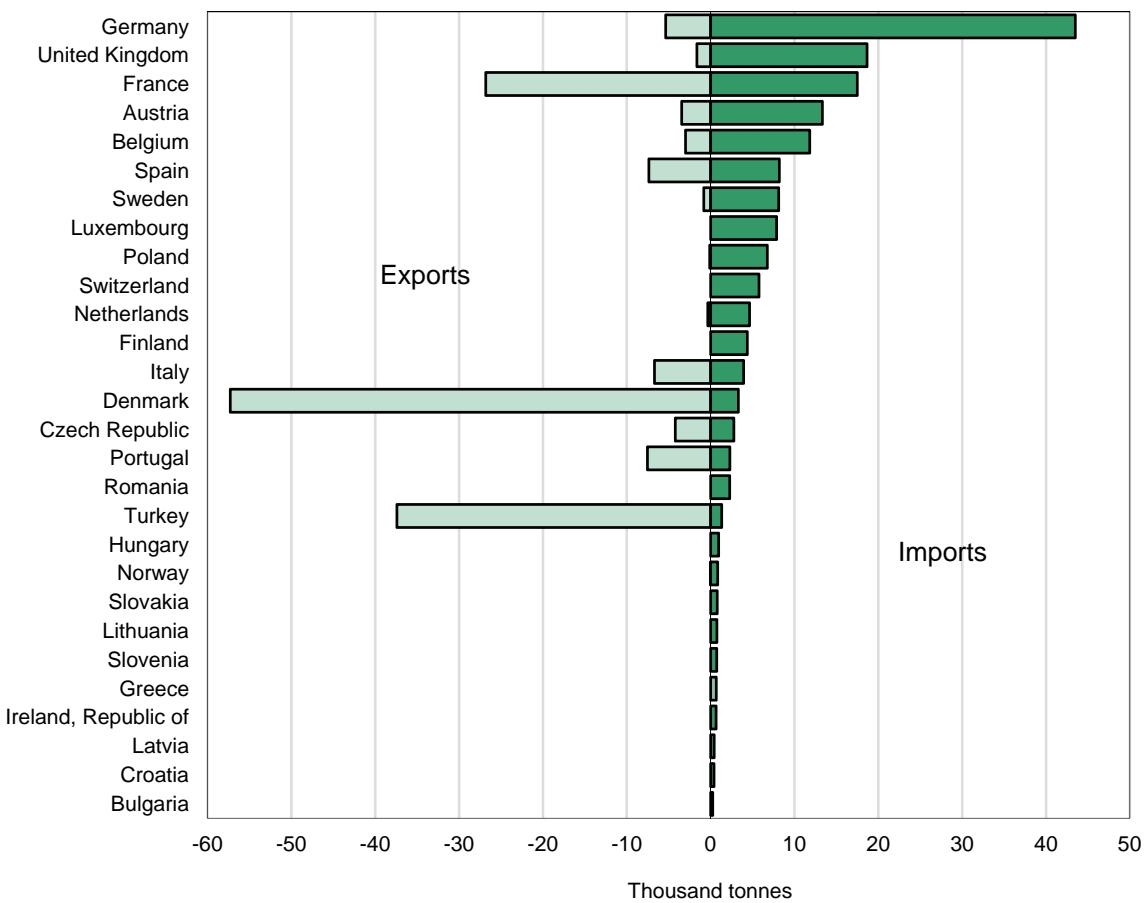
Diatomite

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Norway	1 228	1 645	1 891	931	842
Poland	5 997	8 235	9 504	9 790	6 753
Portugal	3 432	1 731	1 372	1 127	2 284
Romania	3 707	3 254	3 798	2 477	2 269
Slovakia	698	549	577	901	784
Slovenia	738	686	644	550	718
Spain	7 281	9 447	8 861	9 600	8 191
Sweden	6 095	6 976	6 929	6 082	8 099
Switzerland	3 157	4 636	4 864	5 071	5 758
Turkey	1 619	1 385	1 491	1 392	1 319
United Kingdom	28 290	24 224	23 084	22 014	18 649

Diatomite - EU34 trade in 2010

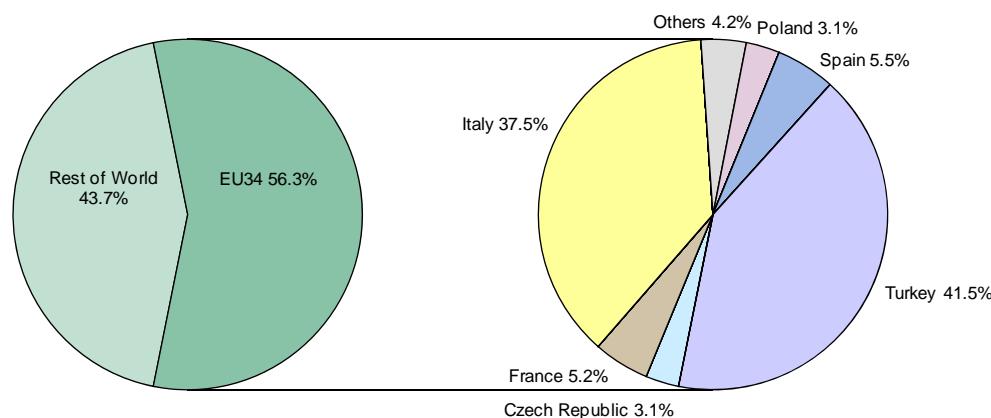


Feldspar

Feldspar is an abundant rock-forming alumino-silicate mineral. It is an essential component of glass and ceramic manufacture where it behaves as a flux and adds hardness, durability and resistance to corrosion.

Turkey and Italy were the largest world producers in 2010 (with 23 per cent and 21 per cent respectively of the world total). Together, the EU34 countries accounted for 56 per cent of world feldspar production in 2010.

EU34 Production of feldspar 2010



Production of feldspar

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	93 091	* 90 000	* 90 000	* 80 000	* 80 000
Czech Republic	487 000	514 000	488 000	431 000	388 000
Finland	43 187	48 980	45 250	* 45 000	* 45 000
France	* 650 000	* 650 000	* 650 000	650 000	650 000
Germany	167 332	171 303	161 416	140 000	* 150 000
Greece	* 100 000	95 000	62 000	55 737	23 050
Italy	4 600 903	3 524 389	4 727 000	* 4 700 000	* 4 700 000
Macedonia	38 124	32 814	28 920	19 377	* 19 000
Norway	65 000	65 000	62 000	48 000	56 000
Poland	431 300	497 900	599 100	445 500	391 900
Portugal	257 570	371 952	230 426	362 392	121 827
Romania	33 100	41 477	22 995	14 317	6 049
Slovakia	3 000	—	10 000	13 000	—
Spain	696 912	683 134	690 256	597 496	691 894
Sweden	24 000	25 000	22 000	18 000	22 000
Turkey	5 500 000	6 000 000	6 500 000	4 000 000	5 200 000
United Kingdom (a) (b)	1 441	1 112	430	—	—
EU34 Total	13 192 000	12 813 000	14 390 000	11 620 000	12 545 000

Note(s)

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

(a) China stone

(b) Including weathered granite feldspar

Feldspar

EU34 Production offeldspar 2006 - 10



Exports of feldspar

tonnes

Country	2006	2007	2008	2009	2010
Austria	17 977	15 058	15 194	14 025	13 474
Belgium	22	190	994	1 117	64
Bulgaria	6 159	22 519	16 912	15 007	19 087
Czech Republic	154 672	168 259	171 596	135 533	129 715
Finland	41 437	37 392	36 482	26 613	31 844
France	224 062	261 112	244 785	182 575	226 149
Germany	121 046	125 258	121 777	70 130	78 610
Greece	5 258	6 052	5 806	718	1 119
Italy	238 555	226 963	324 977	126 289	194 763
Macedonia	36 539	28 766	23 762	18 457	21 924
Netherlands	552	456	555	1 355	105
Norway	66 838	66 484	58 211	47 711	55 637
Poland	2 749	1 849	2 049	1 829	3 050
Portugal	862	4 048	873	1 290	2 190
Romania	20 563	25 102	16 438	8 375	1
Spain	77 348	74 461	79 120	56 161	69 337
Sweden	15 880	14 383	10 670	7 646	11 251
Turkey (a)	* 4 300 000	* 4 300 000	* 4 600 000	* 2 500 000	* 3 400 000
United Kingdom	38	40	82	369	38

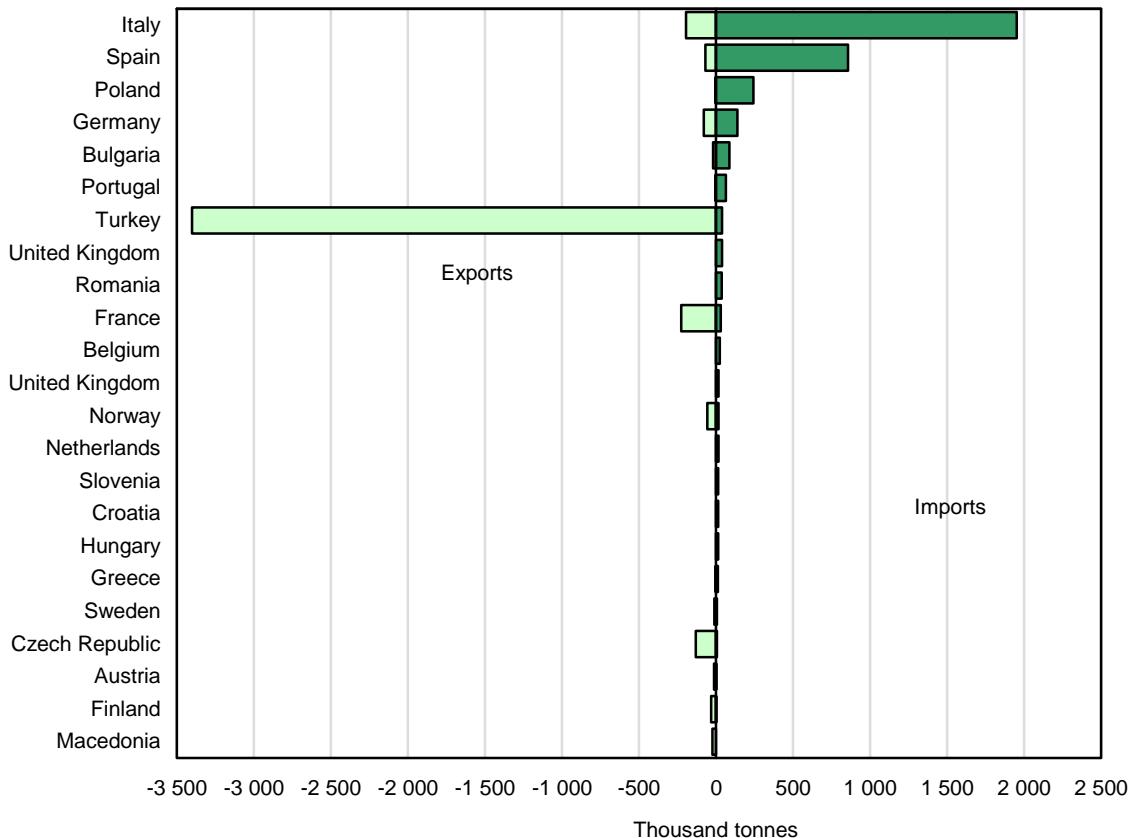
Note(s)

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

Imports of feldspar

tonnes

Country	2006	2007	2008	2009	2010
Austria	2 220	3 816	1 928	1 933	2 433
Belgium	21 482	25 951	34 837	27 113	24 495
Bulgaria	40 416	35 851	31 346	54 178	86 861
Croatia	15 986	16 212	15 983	14 603	14 763
Czech Republic	16 032	14 213	11 414	5 330	6 298
Denmark	2 590	3 145	2 678	2 666	1 211
Finland	796	1 023	699	851	1 209
France	54 106	20 974	59 857	43 981	31 721
Germany	126 834	143 596	143 758	130 081	139 663
Greece	439	478	2 830	5 851	12 195
Hungary	16 091	13 567	10 418	14 499	14 235
Italy	2 603 981	2 573 637	2 511 704	1 570 345	1 951 827
Lithuania	1 933	1 693	1 516	2 958	6 265
Netherlands	7 505	8 529	12 633	8 849	15 721
Norway	17 199	12 930	17 367	13 781	16 413
Poland	219 719	237 963	243 798	176 717	243 645
Portugal	98 106	108 150	85 400	72 275	63 675
Romania	31 433	48 999	49 160	37 639	36 924
Slovakia	30 726	27 548	24 788	16 352	5 886
Slovenia	5 813	6 877	6 576	8 899	14 954
Spain	1 422 514	1 407 350	1 410 760	664 830	856 406
Sweden	4 029	6 021	3 861	4 268	6 410
Switzerland	6 219	8 056	7 653	6 478	6 593
Turkey	44 159	46 323	28 594	28 166	39 953
United Kingdom	17 098	26 751	18 899	9 299	17 584

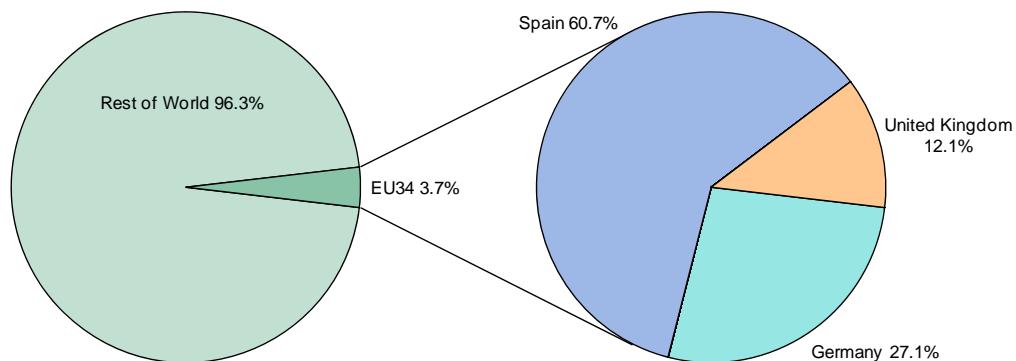
Feldspar - EU34 trade in 2010

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 agrichemical industries. Fluorspar is also used in steel and aluminium manufacture.

China dominated world production, producing 56 per cent of all fluorspar in 2010. The EU34 countries represent just four per cent of world fluorspar production, with a reduction in output of 28 per cent between 2006 and 2010 due, in part, to the cessation of output from France and Italy. Spain was the largest EU34 producer with 61 per cent of EU34 production in 2010.

EU34 Production of fluorspar 2010

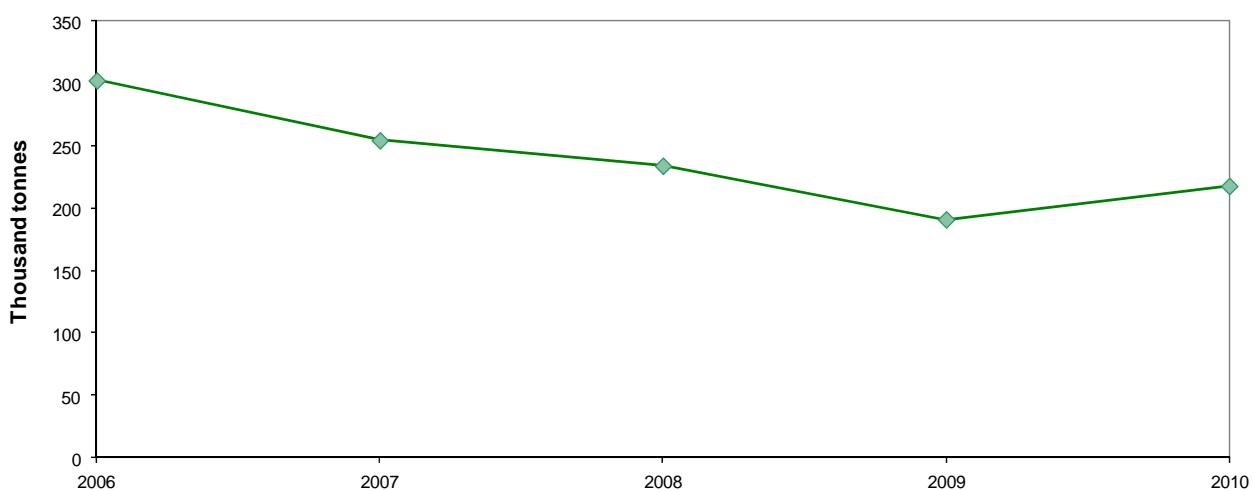


Production of fluorspar

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	—	—	—	32	10
France	* 40 000	—	—	—	—
Germany	53 009	54 359	48 519	49 962	59 086
Italy	* 15 000	—	—	—	—
Spain	144 845	155 197	148 736	122 533	132 341
United Kingdom	49 676	44 936	36 801	18 536	26 420
EU34 Total	303 000	255 000	234 000	191 000	218 000

EU34 Production of fluorspar 2006 - 10



Exports of fluorspar

tonnes

Country	2006	2007	2008	2009	2010
Belgium	110 965	105 822	156 066	84 491	122 483
Czech Republic	9 954	8 415	4 488	6 147	10 575
Germany	35 207	56 023	50 338	31 157	33 487
Italy	16 710	19 281	31 271	9 518	6 740
Netherlands	1 587	27 213	12 665	11 333	14 023
Spain	10 518	29 117	13 109	35 366	1 680
Sweden	7 450	7 764	11 538	6 745	8 101

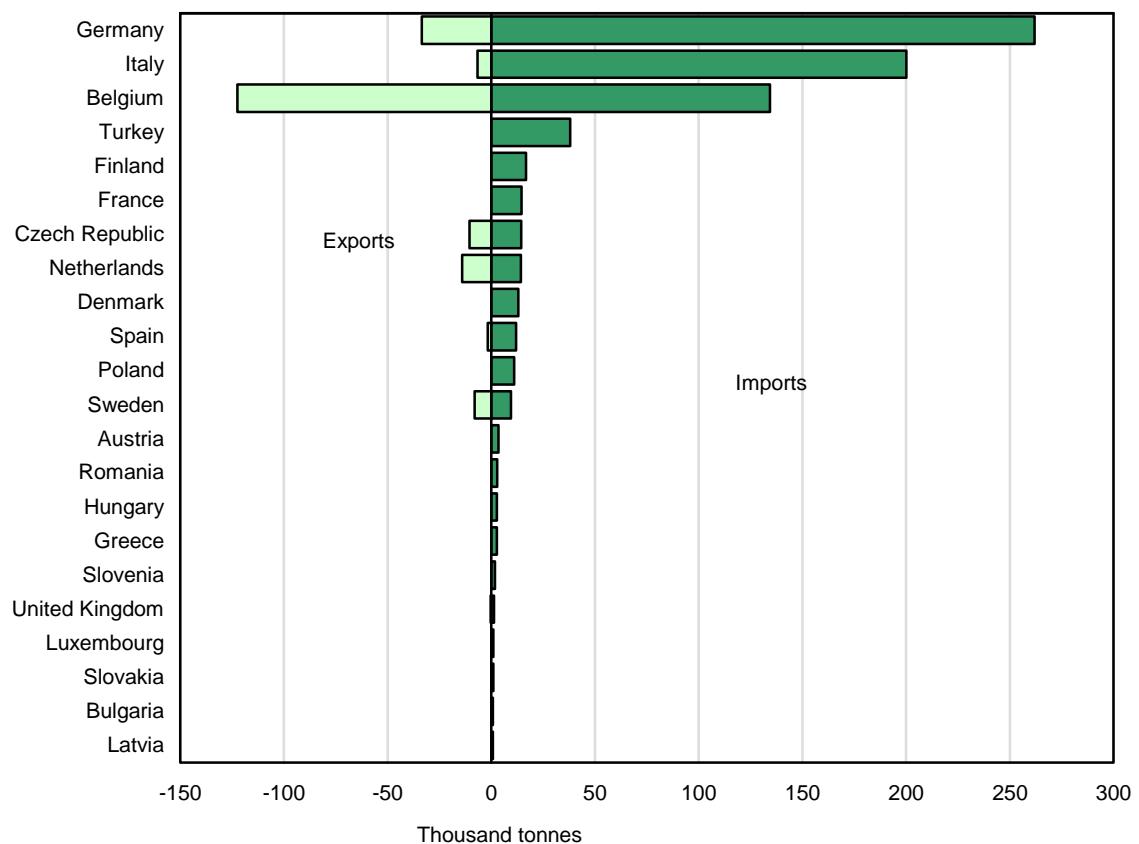
Imports of fluorspar

tonnes

Country	2006	2007	2008	2009	2010
Austria	2 722	2 517	3 405	1 956	3 490
Belgium	123 392	129 159	169 219	91 928	134 266
Bulgaria	2 321	1 326	651	778	700
Croatia	124	149	289	165	146
Czech Republic	24 637	24 915	3 440	8 626	14 495
Denmark	12 635	8 218	17 003	33 149	13 086
Finland	15 011	15 064	12 366	23 178	16 740
France	34 972	48 758	21 256	13 124	14 601
Germany	293 737	346 581	357 914	187 330	261 999
Greece	2 855	2 232	2 281	1 954	2 652
Hungary	2 801	7 460	4 512	(a)* 1 500	2 662
Italy	237 597	236 797	238 008	212 415	200 184
Latvia	204	220	240	468	678
Luxembourg	95	1 278	1 343	618	983
Macedonia	218	380	300	457	350
Montenegro	283	263	294	40	50
Netherlands	7 836	48 089	13 860	13 014	14 295
Poland	7 834	8 682	8 691	8 562	11 013
Portugal	2 530	2 423	1 828	2 243	636
Romania	3 915	4 738	2 526	1 481	2 911
Slovakia	1 543	908	1 143	644	954
Slovenia	1 184	1 017	1 326	1 064	1 754
Spain	28 908	29 560	32 016	17 148	12 008
Sweden	16 176	12 089	14 214	12 959	9 451
Switzerland	704	533	571	370	492
Turkey	21 750	23 139	34 073	36 114	37 977
United Kingdom	6 620	3 875	8 429	6 436	1 294

Note(s)

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

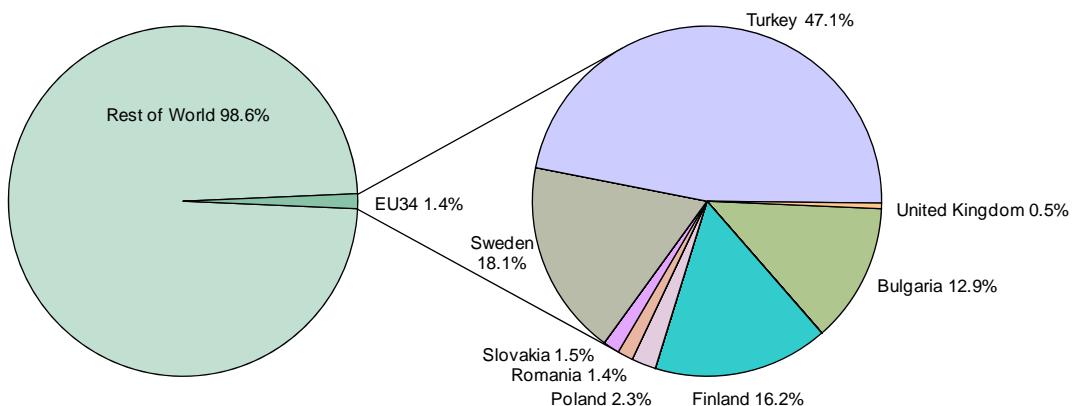
Fluorspar – EU34 trade in 2010

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, Australia, the USA, and Russia were the four largest gold producers in 2010. Together these four countries produced 41 per cent of the total world output. South Africa was the largest producer in 2006 but output here has fallen by 31 per cent between 2006 and 2010. In the EU34 Turkey (47 per cent of the EU34 total) and Sweden (18 per cent) were the largest producers in 2010, although the EU34 countries produced only one per cent of world output.

EU34 Production of gold 2010



Mine production of gold

kilograms

Country	2006	2007	2008	2009	2010
Bulgaria	3 818	3 964	4 160	4 482	4 489
Finland	1 307	1 639	1 336	3 808	5 644
Poland (a)	1 700	883	902	814	784
Romania	* 500	* 500	* 500	* 500	* 500
Slovakia	84	92	198	346	534
Spain	1 565	—	—	—	—
Sweden	6 848	5 159	4 953	5 542	6 285
Turkey	8 040	9 920	11 120	14 450	16 400
United Kingdom	—	88	163	187	177
EU34 Total	24 000	22 000	23 000	30 000	35 000

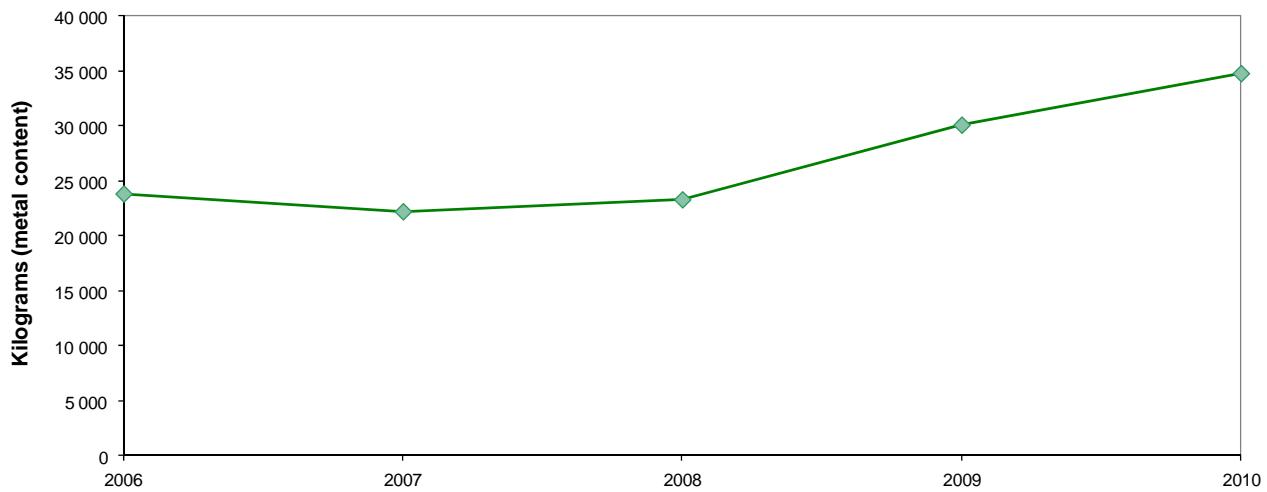
Note(s)

- (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

EU34 Production of gold 2006 - 10



Exports of gold

Country	2006	2007	2008	2009	2010
Austria					
Metal	11 100	14 900	18 700	18 800	27 800
Waste and scrap	600	17 300	2 200	2 700	5 900
Belgium					
Metal	21 637	24 697	24 538	25 683	22 842
Waste and scrap	438 000	128 400	134 500	29 100	173 700
Czech Republic					
Metal	4 100	3 900	4 000	9 800	12 000
Waste and scrap	700	6 100	5 200	5 600	4 400
Denmark					
Metal	1 253	366	397	100	200
Waste and scrap	3 531	600	600	500	500
Finland					
Waste and scrap	886	200	466	539	878
France					
Metal	24 302	20 229	22 247	22 447	27 729
Waste and scrap	29 600	29 300	50 700	34 094	24 189
Germany					
Metal	65 200	71 250	* 120 000	113 039	221 003
Waste and scrap	7 500	14 800	4 800	62 603	904 379
Greece					
Metal	311	900	400	500	48
Hungary					
Metal	470	871	657	1 312	1 200
Ireland, Republic of					
Metal	£1 400 000	£1 678 000	£1 180 000	£37 000	£74 000
Waste and scrap	£1 313 000	£902 000	£577 000	£2 056 000	£6 292 000
Italy					
Metal	55 847	56 360	51 260	106 646	109 762
Waste and scrap	16	160	1 376	173	154 845
Luxembourg					
Metal	8 637	12 200	55 600	38 000	32 700
Netherlands					
Metal	19 634	22 468	37 439	15 515	34 851
Waste and scrap	98 813	4 433	45 456	1 222	57 680
Norway					
Metal	2 337	2 601	3 847	3 865	4 567
Waste and scrap	182	426	600	1 197	1 482
Poland					
Metal	1 100	300	105 000	121 100	1 100
Waste and scrap	1 600	700	4 800	18 000	588

Exports continued

kilograms

Country	2006	2007	2008	2009	2010
Portugal					
Waste and scrap	400	1 100	36 100	800	800
Slovakia					
Metal	702	4 178	2 914	3 196	2 926
Waste and scrap	1 000	1 600	800	1 200	7 300
Slovenia					
Metal	100	1 300	3 000	129	168
Waste and scrap	3 700	—	—	200	5 450
Spain					
Metal	3 679	23 667	6 966	31 466	282 816
Waste and scrap	2 636	92	1 147	131 376	258 156
Sweden					
Metal	19 000	17 800	19 400	14 500	14 700
Waste and scrap	32 000	65 700	29 400	60 900	5 100
Switzerland					
Metal	965 959	1 095 682	2 103 919	1 010 085	2 287 070
Waste and scrap	2 802	102 745	125 459	107 918	105 407
Turkey					
Metal	13 581	12 068	142 244	162 208	56 035
United Kingdom					
Metal	166 080	224 598	600 018	96 231	293 153
	313 712	282 298	272 339	533 182	496 924

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	2006	2007	2008	2009	2010
Austria					
Metal	9 300	30 900	72 300	86 500	56 600
Waste and scrap	300	100	400	1 700	1 400
Belgium					
Metal	11 848	8 100	15 600	13 100	10 100
Waste and scrap	147 094	361 400	(a)* 61 400	(a)* 115 800	(a)* 339 000
Croatia					
Metal	992	1 608	693	1 221	310
Czech Republic					
Metal	1 570	8 813	3 047	3 055	2 600
Waste and scrap	14 953	45 718	19 140	60 440	84 000
Denmark					
Metal	1 643	2 350	2 000	3 100	900
Estonia					
Metal	365	900	1 200	300	900
France					
Metal	23 605	23 567	20 071	16 877	20 037
Waste and scrap	1 500	1 100	3 300	6 248	25 070
Germany					
Metal	56 743	68 549	118 516	164 511	192 815
Waste and scrap	1 821 100	1 304 700	1 390 000	1 126 326	1 396 280
Greece					
Metal	60 999	48 500	114 500	26 600	20 700
Ireland, Republic of					
Metal	£7 213 000	£6 260 000	£5 271 000	£4 365 000	£4 047 000
Italy					
Metal	204 012	206 914	166 506	146 721	149 022
Waste and scrap	810	17 885	851	864	649
Lithuania					
Waste and scrap	12 470	2	—	103	—

Gold

Imports continued

kilograms

Country	2006	2007	2008	2009	2010
Luxembourg					
Metal	5 840	10 200	37 400	10 000	12 300
Malta					
Metal	7 900	9 034	6 820	5 500	8 200
Netherlands					
Metal	22 122	21 706	41 012	42 806	37 888
Waste and scrap	92 890	19 174	2 422	111	110 465
Norway					
Metal	1 739	1 448	1 146	670	969
Waste and scrap	1 304	1 455	3 940	3 568	4 127
Poland					
Metal	400	6 100	3 800	100	200
Portugal					
Metal	3 224	2 003	1 535	1 077	1 500
Slovakia					
Metal	13 901	92 400	74 800	208 400	220 470
Slovenia					
Metal	445	600	1 700	400	1 100
Waste and scrap	1 533	100	9	1 210	5 400
Spain					
Metal	15 072	6 641	* 72 000	68 562	44 542
Waste and scrap	233	2 352	252	109	2 780
Sweden					
Metal	£10 124 000	£18 292 000	£25 583 000	£26 296 000	£32 625 000
Waste and scrap	£7 000	£112 000	£565 000	£53 000	£12 243 000
Switzerland					
Metal	1 498 693	1 667 100	2 101 027	2 198 967	2 343 011
Waste and scrap	104 957	57 001	214 839	319 257	219 260
Turkey					
Metal	157 792	155 471	179 606	52 654	64 105
United Kingdom					
Metal	781 840	649 163	914 000	1 166 948	800 602
Waste and scrap	7 925	17 046	43 143	213 440	65 833

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

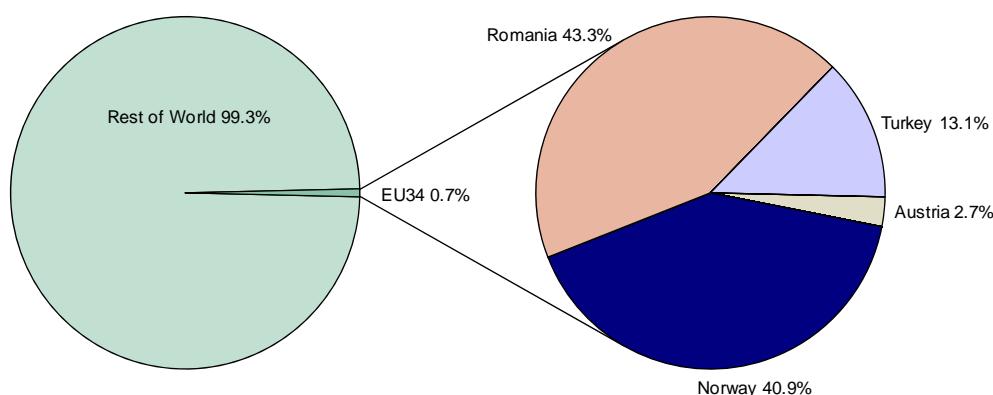
(a) BGS estimates, based on known exports from certain countries

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 EU34 countries represented only 0.7 per cent of the world total in 2010. World output is dominated by China which produced 86 per cent of the total.

EU34 Production of graphite 2010



Production of graphite

tonnes

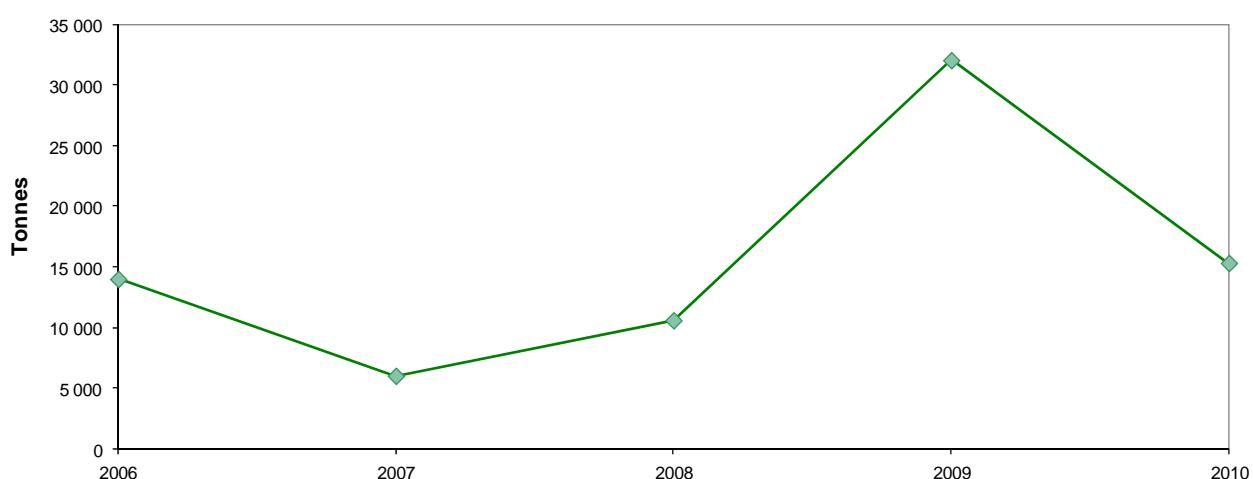
Country	2006	2007	2008	2009	2010
Austria (a)	—	—	250	750	420
Czech Republic	5 000	3 000	3 000	—	—
Norway	9 000	3 000	4 100	4 562	6 270
Romania	—	—	—	24 352	6 633
Turkey	—	—	3 236	2 400	* 2 000
EU34 Total	14 000	6 000	11 000	32 000	15 000

Note(s)

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

(a) Crude

EU34 Production of graphite 2006 - 10



Graphite

Exports of graphite

tonnes

Country	2006	2007	2008	2009	2010
Austria	7 416	7 460	8 853	6 260	9 518
Belgium	460	438	3 815	2 634	993
Czech Republic	3 518	4 029	4 076	2 150	3 154
Finland	2	46 162	0	5	8
France	85	163	269	226	361
Germany	20 777	23 993	18 950	12 722	20 583
Italy	442	401	308	820	798
Netherlands	2 991	4 308	1 378	1 974	2 967
Spain	6 356	8 728	10 499	8 160	5 369
Sweden	230	273	252	159	254
Switzerland	225	384	600	355	326
Turkey	57	13	390	257	220
United Kingdom	2 979	3 065	3 156	2 271	2 981

Note(s)

(1) This table excludes synthetic graphite

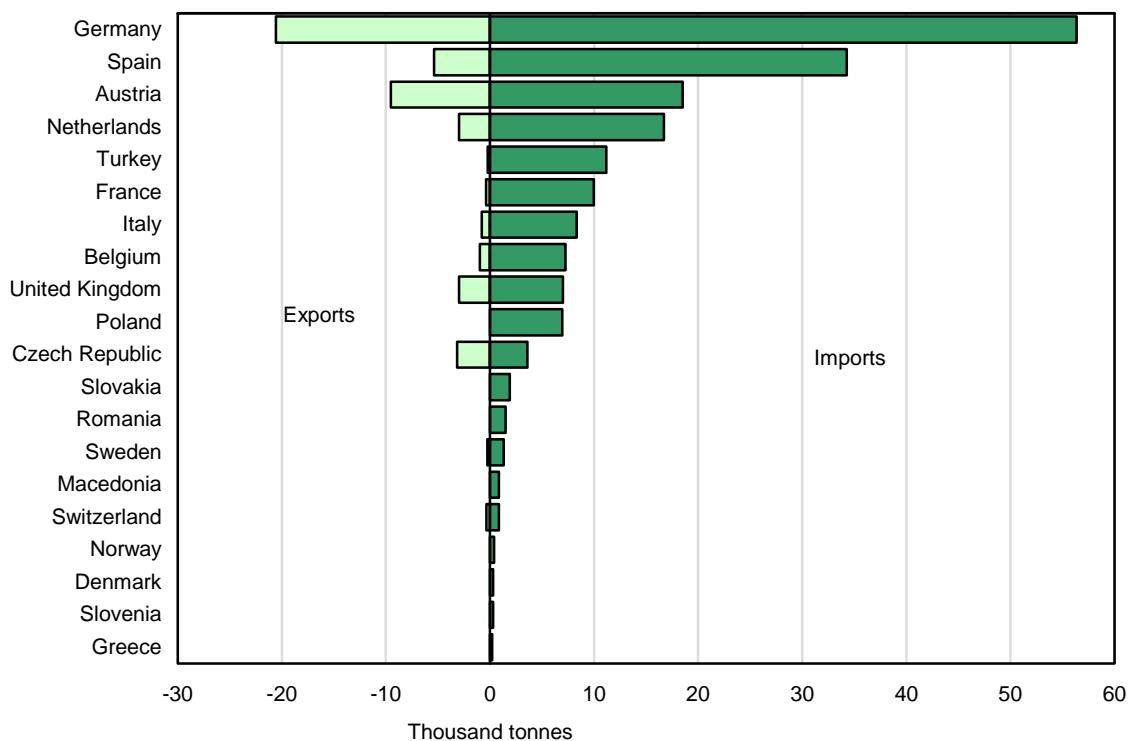
Imports of graphite

tonnes

Country	2006	2007	2008	2009	2010
Austria	10 704	17 757	30 863	4 622	18 501
Belgium	1 836	2 309	3 624	5 048	7 243
Bulgaria	433	250	158	132	66
Czech Republic	3 485	5 301	6 233	2 554	3 605
Denmark	268	212	185	269	303
France	19 430	19 250	20 618	10 376	9 981
Germany	45 884	54 627	62 180	33 293	56 333
Greece	83	111	142	918	219
Hungary	192	178	147	126	113
Iceland	2	—	11	2 132	18
Italy	11 548	11 362	11 832	5 995	8 308
Macedonia	648	1 969	1 522	761	875
Netherlands	5 362	13 463	42 612	2 487	16 692
Norway	296	980	561	508	400
Poland	3 658	5 701	4 474	3 078	6 933
Portugal	1 954	2 210	1 493	73	66
Romania	488	542	304	144	1 499
Slovakia	1 382	2 246	2 981	962	1 899
Slovenia	161	108	141	89	295
Spain	10 143	15 582	24 284	15 669	34 268
Sweden	1 252	1 592	1 091	835	1 315
Switzerland	722	966	931	306	848
Turkey	6 300	6 095	13 230	6 788	11 191
United Kingdom	16 978	17 225	14 309	7 850	6 989

Note(s)

(1) This table excludes synthetic graphite

Graphite - EU34 trade in 2010

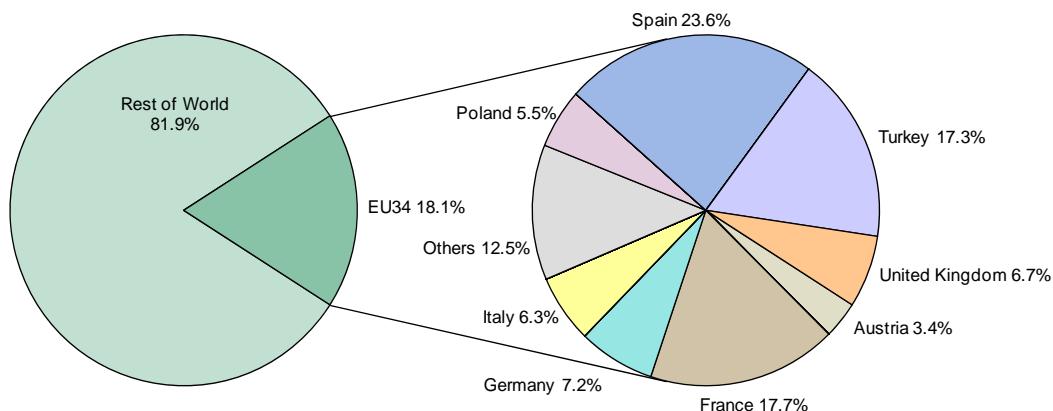
Gypsum

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 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 EU34 produced 18 per cent of world natural gypsum in 2010. The largest EU34 producer is Spain which accounted for 24 per cent of EU34 production (or four per cent of the world total). China was the largest gypsum producer in the world in 2010 with 26 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.

EU34 Production of gypsum 2010



Production of gypsum

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Gypsum	936 072	1 006 416	1 022 983	(a) 910 945	(a) 872 273
Anhydrite	135 380	57 428	64 276	...	...
Bulgaria	215 800	234 300	21 200	127 600	109 200
Croatia	170 351	170 721	* 250 000	318 139	248 675
Cyprus	270 000	330 000	412 000	317 000	333 000
Czech Republic	16 000	66 000	35 000	13 000	5 000
France (a)	* 4 800 000	* 4 800 000	2 339 380	3 351 339	4 500 000
Germany (a)	1 771 000	1 898 000	2 112 000	1 898 000	1 822 000
Greece	900 000	836 967	(a) 1 000 000	(a) 730 000	(a)* 600 000
Hungary (a)	30 000	26 000	15 940	19 766	20 000
Ireland, Republic of	* 700 000	* 700 000	* 600 000	* 400 000	* 300 000
Italy	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Latvia (a)	330 000	346 000	349 000	175 870	176 510
Macedonia	267 760	255 500	242 400	154 550	* 150 000
Poland					
Gypsum	1 172 000	1 298 000	1 283 000	1 119 000	(a) 1 398 492
Anhydrite	181 000	194 000	198 000	158 000	...
Portugal	366 599	418 035	372 731	335 189	256 177
Romania	615 072	1 004 150	832 248	720 713	639 010
Slovakia (a)	126 200	151 000	152 000	131 000	87 000
Spain	14 596 559	14 535 422	11 955 753	8 181 315	* 6 000 000
Switzerland	* 250 000	* 250 000	* 250 000	* 250 000	* 250 000
Turkey	4 369 771	3 241 177	7 338 127	4 369 589	* 4 400 000
United Kingdom	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
EU34 Total	35 500 000	35 100 000	34 100 000	27 000 000	25 500 000

Note(s)

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

(a) Including anhydrite

EU34 Production of gypsum 2006 - 10**Exports of gypsum**

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Crude	30 002	89 128	26 402	20 694	19 124
Calcined	99 013	121 473	89 906	78 839	55 927
Belgium					
Crude	62 303	54 953	89 626	113 954	92 533
Calcined	4 707	3 039	3 817	1 823	177 046
Bulgaria					
Crude and calcined	2 439	1 439	787	11 965	3 641
Croatia					
Crude and calcined	6 349	4 808	4 738	3 119	10
Cyprus					
Crude and calcined	152 621	203 109	279 902	236 427	250 034
Czech Republic					
Crude	46 837	105 394	60 018	10 195	48 605
Calcined	6 249	5 973	7 881	6 430	5 235
Denmark					
Crude	165 656	197 920	141 124	8 440	2 211
Calcined	356 443	1 740	4 173	1 455	8 299
France					
Crude	321 789	414 428	381 841	267 315	259 192
Calcined	349 703	356 716	338 682	282 254	286 799
Germany					
Crude	391 494	423 152	447 140	393 691	430 977
Calcined	1 471 660	1 703 212	1 775 467	1 290 391	1 558 288
Greece					
Crude	116 442	47 694	21 258	49 037	38 459
Calcined	752	1 842	937	580	337
Hungary					
Crude and calcined	6 408	8 626	19 259	22 019	17 367
Ireland, Republic of					
Crude	1 054	1 058	1 094	10 425	23 355
Calcined	40 027	37 914	32 821	28 491	15 129
Italy					
Crude	141	17 748	24 525	17 907	12 035
Calcined	69 272	27 123	24 496	21 848	18 484
Latvia					
Crude and calcined	109 404	74 627	63 732	37 352	38 596
Luxembourg					
Crude and calcined	639	1 232	553	661	1 596
Macedonia					
Crude and calcined	9 488	10 167	12 496	12 604	30 273
Netherlands					
Crude	32 425	49 394	37 991	* 39 600	15 773
Calcined	70 005	17 744	15 228	5 550	1 656

Gypsum

Exports continued

Country	2006	2007	2008	2009	2010	tonnes
Norway						
Crude and calcined	40 811	51 212	69 976	68 140	36 298	
Poland						
Crude and calcined	40 832	56 003	58 644	40 512	47 654	
Portugal						
Crude and calcined	4 349	8 362	22 707	12 394	20 016	
Romania						
Crude and calcined	14 283	13 507	13 069	17 966	17 672	
Slovenia						
Crude and calcined	9 502	36 039	8 575	6 575	205	
Spain						
Crude	3 568 327	3 335 273	3 458 773	2 187 816	2 678 208	
Calcined	306 791	274 781	228 060	182 982	165 424	
Sweden						
Crude and calcined	9 954	12 694	11 525	9 358	8 155	
Switzerland						
Crude and calcined	1 158	2 754	5 207	2 454	8 536	
Turkey						
Crude	26 683	43 195	37 899	145 717	134 905	
Calcined	481 313	544 954	838 314	643 873	682 898	
United Kingdom						
Crude	2 679	1 248	1 493	1 978	3 330	
Calcined	63 533	57 988	48 340	32 551	24 552	

Note(s)

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

Imports of gypsum

Country	2006	2007	2008	2009	2010	tonnes
Austria						
Crude	11 057	14 651	10 118	12 098	22 432	
Calcined	61 713	97 281	67 712	73 588	70 850	
Belgium						
Crude	811 923	1 118 068	1 231 279	702 104	616 338	
Calcined	499 433	490 242	505 792	424 465	396 873	
Bulgaria						
Crude	10 088	8 240	12 223	15 830	6 239	
Calcined	56 869	58 880	70 280	42 086	44 383	
Croatia						
Crude	25 095	48 775	38 120	14 470	1 608	
Calcined	37 052	37 034	34 224	22 154	14 076	
Cyprus						
Crude and calcined	9 849	12 932	15 045	10 807	9 292	
Czech Republic						
Crude	38 983	70 972	76 119	83 819	55 087	
Calcined	43 282	45 167	75 278	53 954	33 763	
Denmark						
Crude	330 476	388 662	379 094	106 304	53 577	
Calcined	52 788	53 647	52 087	58 675	42 290	
Estonia						
Crude	22 619	26 567	19 239	381	11 295	
Calcined	18 255	19 769	18 823	8 760	8 950	
Finland						
Crude	310 245	423 355	408 509	146 141	235 787	
Calcined	9 958	8 588	6 598	5 664	7 281	
France						
Crude	588 367	580 341	492 072	354 086	313 842	
Calcined	68 652	111 325	116 678	101 840	85 849	
Germany						
Crude	79 798	80 449	54 216	28 315	29 132	
Calcined	85 665	93 275	76 992	75 319	82 341	

Imports continued

tonnes

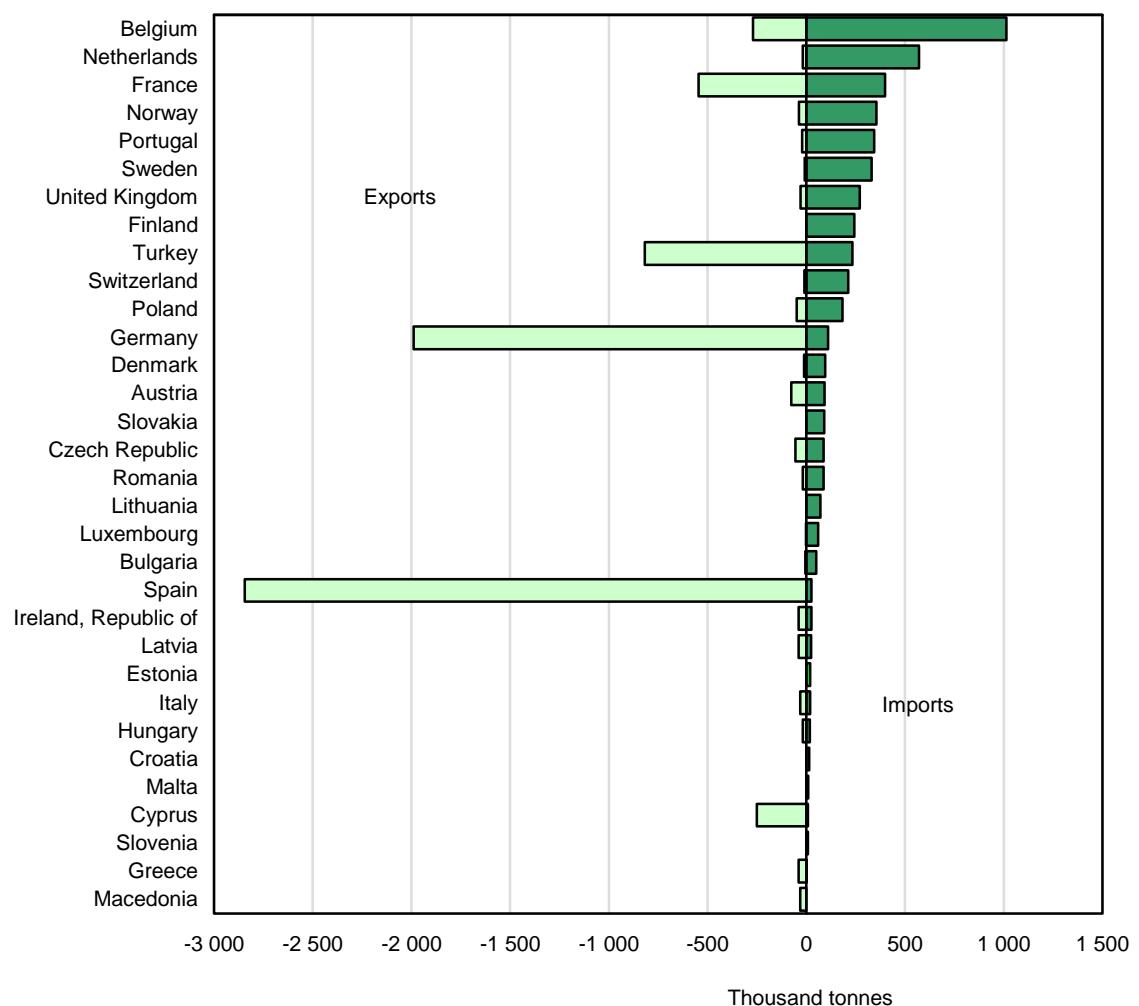
Country	2006	2007	2008	2009	2010
Greece					
Crude and calcined	14 321	4 747	3 093	2 097	1 759
Hungary					
Crude	5 417	5 424	6 713	3 248	5 362
Calcined	60 129	60 615	49 220	43 128	12 413
Iceland					
Crude	10 061	13 279	10 533	4 724	2 579
Calcined	713	1 409	1 606	642	192
Ireland, Republic of					
Crude	2 064	7 487	1 412	15 931	20 637
Calcined	22 500	22 676	24 877	13 930	5 410
Italy					
Crude	5 285	6 814	21 411	5 754	3 618
Calcined	20 028	21 088	19 621	16 645	16 267
Latvia					
Crude and calcined	9 960	13 670	5 818	1 920	24 696
Lithuania					
Crude	71 649	78 185	90 320	28 754	54 772
Calcined	36 588	47 112	43 127	19 974	17 377
Luxembourg					
Crude	751	849	51 416	57 828	50 104
Calcined	28 454	31 700	25 257	15 793	10 715
Macedonia					
Crude and calcined	1 106	1 080	976	948	840
Malta					
Crude and calcined	7 549	6 309	5 505	2 305	10 446
Montenegro					
Crude and calcined	3 464	1 969	1 747	3 356	653
Netherlands					
Crude	227 950	402 915	285 990	249 206	203 179
Calcined	483 249	430 550	415 623	418 481	368 523
Norway					
Crude	117 892	128 045	121 440	76 435	84 359
Calcined	287 568	328 003	298 394	234 564	270 721
Poland					
Crude	175 605	296 289	170 571	157 974	129 336
Calcined	147 272	238 858	215 458	82 586	53 613
Portugal					
Crude	96 070	75 794	89 627	81 971	73 822
Calcined	307 953	320 174	298 708	244 809	270 783
Romania					
Crude	53 211	66 231	90 194	45 891	40 703
Calcined	65 441	77 900	100 471	62 134	47 912
Slovakia					
Crude	85 408	88 083	111 188	53 104	74 512
Calcined	26 794	29 894	47 044	52 703	16 732
Slovenia					
Crude	31 312	38 588	24 660	5 565	942
Calcined	8 167	7 936	8 622	9 432	7 615
Spain					
Crude	59 656	53 028	43 171	25 963	20 776
Calcined	20 440	14 129	33 825	7 349	6 015
Sweden					
Crude	263 582	244 986	178 364	94 656	256 696
Calcined	166 829	146 638	154 201	158 842	73 865
Switzerland					
Crude	87 964	93 365	101 731	101 228	112 555
Calcined	92 787	95 000	97 296	87 350	100 958
Turkey					
Crude and calcined	278 129	180 159	167 572	202 523	234 495
United Kingdom					
Crude	369 714	196 613	140 783	396 138	216 605
Calcined	92 069	52 678	88 766	60 337	54 209

Note(s)

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

Gypsum

Gypsum - EU34 trade in 2010



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 (57 per cent). The EU34 produces no iodine.

Exports of iodine

kilograms

Country	2006	2007	2008	2009	2010
Austria	600	300	100	300	200
Belgium	3 272 600	2 633 100	3 560 100	2 582 300	3 989 500
Bulgaria	781	51 610	200	300	600
Czech Republic	800	1 000	300	500	1 000
Denmark	6 301	100	1	1 500	3
France	51 300	91 100	100 500	101 909	47 103
Germany	340 600	183 200	97 400	112 690	62 331
Ireland, Republic of	—	1 944	1 536	1 982	—
Italy	7 067	2 613	2 119	86 917	24 722
Lithuania	4 800	20	3	—	4
Netherlands	76 080	517 872	773 705	386 170	124 797
Norway	17	7 200	—	250	—
Poland	200	1 300	5 100	5 100	16 400
Spain	7 356	7 689	46 873	15 376	14 704
Sweden	40	48	122	300	700
Switzerland	1 342	1 205	1 605	97	349
Turkey	20 213	11 098	1 212	31 908	2 960
United Kingdom	314 659	368 785	174 965	121 370	393 005

Imports of iodine

kilograms

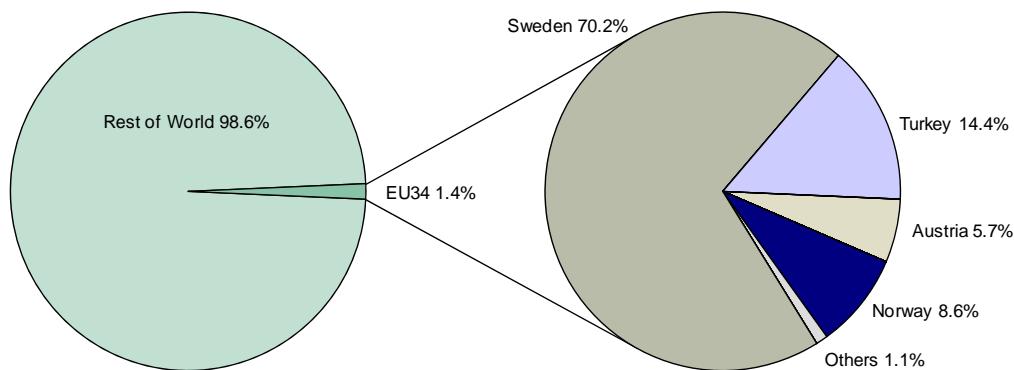
Country	2006	2007	2008	2009	2010
Austria	173 600	145 500	139 700	204 100	213 000
Belgium	3 513 105	2 774 500	3 586 200	3 189 200	4 087 700
Bulgaria	3 990	6 500	2 900	2 900	2 300
Czech Republic	31 600	32 300	25 200	31 900	35 100
Denmark	16 345	1 973 090	1 122 329	8 674	10 168
Estonia	48	12	18	196	13 157
Finland	2 066	3 400	3 400	2 901	1 443
France	1 929 100	1 687 900	1 875 400	1 189 569	1 530 436
Germany	1 205 800	1 102 600	1 150 600	1 168 886	1 422 575
Greece	2 153	500	600	800	1 300
Hungary	1 800	4 400	7 900	2 100	2 700
Iceland	104	12 001	12 029	9	9
Ireland, Republic of	9 705	10 318	21 515	24 358	13 311
Italy	1 033 737	1 231 082	1 343 977	1 256 232	1 080 203
Lithuania	5 023	470	383	4 510	17 732
Netherlands	158 145	1 870	800 817	23 376	16 031
Norway	1 919 848	1 785 526	1 668 339	1 270 662	1 708 338
Poland	18 700	18 800	24 100	10 600	21 700
Portugal	1 400	900	100	8 000	8 700
Romania	1 107	2 636	1 395	330	300
Spain	790 641	582 029	541 706	512 821	342 914
Sweden	2 000	5 000	600	400	1 100
Switzerland	11 133	18 136	7 260	7 156	10 238
Turkey	3 219	8 594	9 498	12 133	3 218
United Kingdom	1 019 543	1 225 368	1 106 864	1 075 328	1 253 806

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 2010 was China (41 per cent of the world total) where output has increased by 82 per cent between 2006 and 2010. EU34 iron ore production was only 1.4 per cent of the world total in 2010 despite an increase of 43.6 per cent compared to 2009. Sweden is the largest EU34 producer (70 per cent of EU34 production).

EU34 Production of iron ore 2010



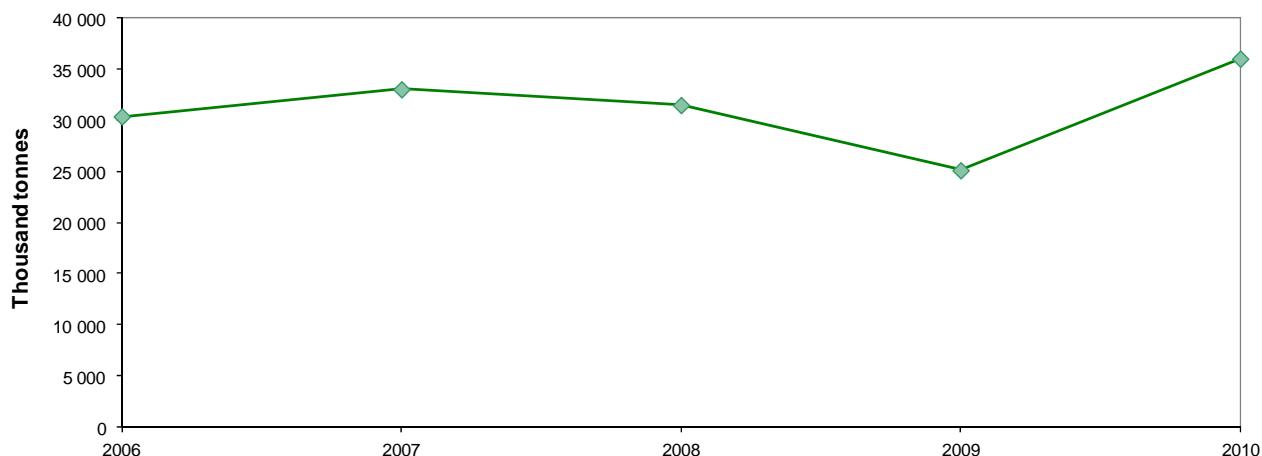
Production of iron ore

tonnes

Country	2006	2007	2008	2009	2010
Austria (a)	2 092 996	2 152 825	2 032 671	2 002 131	2 068 853
Germany (b)(c)	416 000	421 711	455 100	363 699	390 353
Norway	620 000	630 000	746 000	896 000	3 105 000
Romania	122 684	8 157	—	—	—
Slovakia	583 000	570 000	392 000	—	—
Sweden	23 302 000	24 714 000	23 888 000	17 677 000	25 292 000
Turkey	3 251 969	4 549 556	3 990 110	4 169 972	5 188 197
United Kingdom	341	* 300	145	—	—
EU34 Total	30 389 000	33 047 000	31 504 000	25 109 000	36 044 000

Note(s)

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

EU34 Production of iron ore 2006 - 10**Exports of iron ore**

tonnes

Country	2006	2007	2008	2009	2010
Belgium	43 555	41 440	85 701	178 567	366 331
Finland					
Burnt pyrites	67 503	146 844	396 064	244 225	391 549
France	76 097	69 376	57 720	124 492	(a) 19 349
Germany					
Iron ore	18 294	17 770	34 495	4 497	22 373
Burnt pyrites	6 623	7 491	12 700	10 865	7 994
Italy					
Iron ore	18 929	7 026	1 598	313	599
Burnt pyrites	4 407	1 544	101	41	8 180
Netherlands	2 491 191	2 710 120	(a) 85 698	(a) 239 932	121 426
Norway	(a) 723 240	739 731	615 296	775 828	1 803 242
Poland	—	27	10 198	14 893	16 130
Romania					
Iron ore	...	21	42 606	172 372	1 718
Burnt pyrites	1	24 068	15 567	12 694	1 359
Slovakia	141 448	4 353	53 434	5 923	62 568
Spain (a)	120 787	75 567	62 147	17 348	9 079
Sweden	18 409 475	19 033 842	17 617 162	16 104 129	20 726 152
Turkey	791	(a) 3 947	4 163	(a) 3 361	(a) 200 600
United Kingdom	(a) 5 235	(a) 5 491	(a) 7 821	32 579	(a) 5 256

Note(s)

(a) Including burnt pyrites

Imports of iron ore

tonnes

Country	2006	2007	2008	2009	2010
Austria (a)	8 412 038	9 061 870	7 996 632	6 095 762	9 309 860
Belgium (a)	11 387 178	9 583 816	12 329 730	3 278 482	7 567 498
Bulgaria					
Iron ore	1 305 110	919 785	208 559	3 110	7 991
Burnt pyrites	450 004	464 580	188 923	15 831	16 653
Croatia (a)	12 604	14 444	17 177	12 057	20 147
Czech Republic	7 984 718	(a) 6 578 116	(a) 6 799 756	(a) 4 803 009	(a) 5 902 011
Denmark					
Iron ore	3 404	72 805	111 604	69 990	53 896
Burnt pyrites	81 341	9 231	—	—	15 457
Finland	3 481 019	3 156 096	3 121 303	2 204 018	(a) 3 052 609

Iron Ore

Imports continued

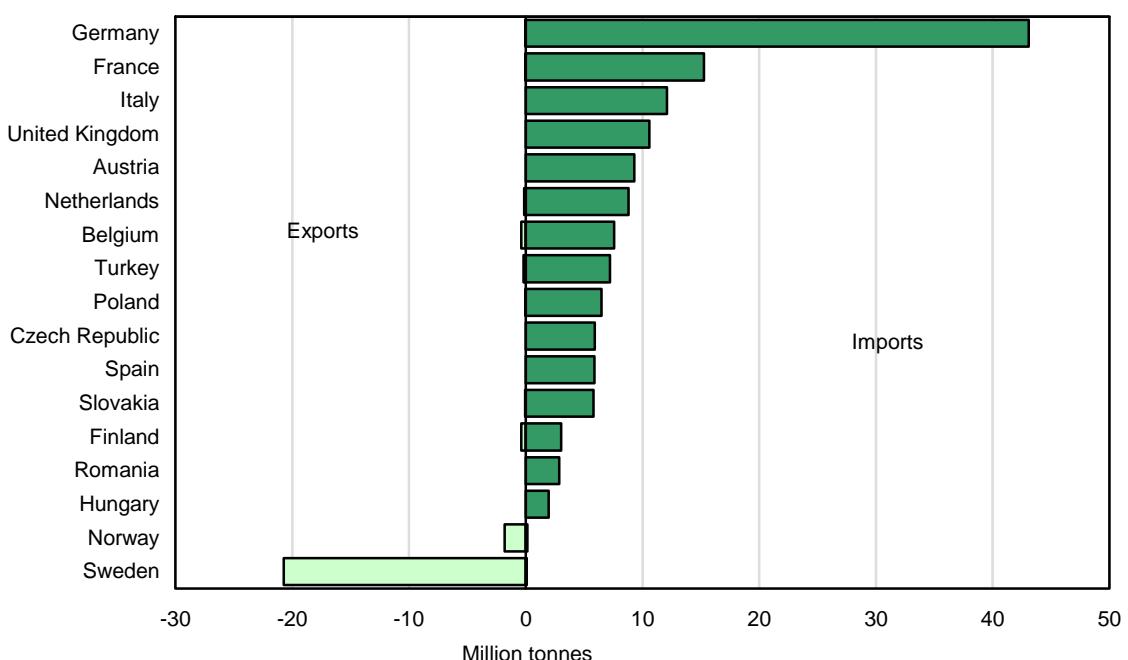
tonnes

Country	2006	2007	2008	2009	2010
France					
Iron ore	19 463 057	20 065 037	18 220 893	10 014 901	15 259 049
Burnt pyrites	3 451	2 107	4 948	5 375	11 603
Germany					
Iron ore	44 850 286	46 194 376	44 339 072	28 812 155	43 082 309
Burnt pyrites	36 299	570	—	7 087	3 077
Greece	(a) 9 755	(a) 2 280	74	(a) 172	217
Hungary	987 543	968 033	616 684	876 109	1 985 510
Iceland	38 509	43 452	(a) 44 167	34 404	36 318
Ireland, Republic of	1 161	(a) 4 594	(a) 13 478	(a) 18 151	(a) 592
Italy	(a) 17 776 812	17 013 076	16 313 184	8 159 741	12 092 237
Latvia	3 919	46 109	44 607	2 393	1
Netherlands	10 833 565	12 693 210	10 831 769	(a) 4 585 303	(a) 8 810 077
Norway	216 372	179 727	151 503	134 167	148 809
Poland	9 607 629	8 746 836	(a) 7 784 529	(a) 3 752 010	6 494 457
Romania					
Iron ore	6 054 765	6 259 705	5 003 811	1 597 033	2 848 921
Burnt pyrites	62 505	2 824	17 770	11 572	29 544
Slovakia	6 406 019	5 853 880	4 802 516	4 499 385	5 796 813
Spain (a)	5 836 809	6 117 047	6 479 890	4 237 845	5 874 304
Sweden	82 211	(a) 69 937	(a) 71 441	(a) 44 006	(a) 71 821
Switzerland (a)	16 019	15 626	18 704	16 490	20 553
Turkey					
Iron ore	7 197 305	6 925 163	5 004 508	7 757 561	7 220 977
Burnt pyrites	11 596	...	17 092	14 097	—
United Kingdom					
Iron ore	16 370 705	17 435 472	15 282 786	9 185 919	10 597 085
Burnt pyrites	1 282	131 230	693	232	—

Note(s)

(a) Including burnt pyrites

Iron ore - EU34 trade in 2010



Production of pig iron

tonnes

Country	2006	2007	2008	2009	2010
Austria	5 547 000	5 908 000	5 795 000	4 353 000	5 621 000
Belgium	7 516 000	6 577 000	6 977 000	3 087 000	* 4 000 000
Bulgaria	1 147 000	1 069 000	441 000	...	...
Czech Republic	5 192 000	5 287 000	4 737 000	3 483 000	3 987 000
Finland	3 157 894	2 915 130	2 942 946	2 042 000	2 564 000
France	12 873 900	12 425 703	11 371 879	8 104 318	10 136 827
Germany	30 940 000	31 700 000	29 105 000	20 104 000	28 560 000
Hungary	1 340 000	1 393 655	1 288 758	1 050 000	1 325 000
Italy	11 500 000	11 100 000	10 400 000	5 670 000	8 555 000
Netherlands	5 417 000	6 412 000	6 130 000	4 655 000	5 799 000
Norway	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Poland	5 332 632	5 804 418	4 933 781	2 983 500	3 637 995
Romania	3 945 975	3 923 244	2 957 715	1 576 679	1 723 418
Slovakia	4 145 000	4 012 000	3 529 000	3 019 000	3 649 000
Spain	3 432 000	3 976 000	3 784 000	2 920 000	3 572 000
Sweden	3 701 000	3 947 000	3 708 000	1 966 000	3 447 000
Turkey	5 952 000	6 235 537	6 697 372	6 913 325	7 676 592
United Kingdom	10 695 700	10 959 800	10 136 800	7 671 100	7 233 000
EU34 Total	121 935 000	123 745 000	115 035 000	79 698 000	101 587 000

Note(s)

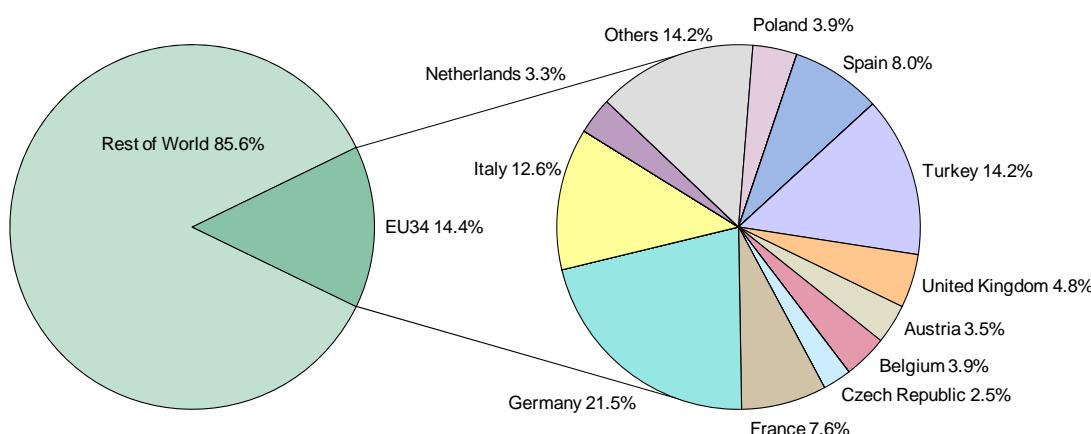
(1) The data in this table include sponge iron and direct reduced iron (DRI), where these have been separately identified

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 EU34 and world total steel production.

The majority of industrialised countries produce steel. In 2010 the largest producer was China, with 44 per cent of the world total and with production 50 per cent higher than in 2006. The EU34 countries produced 14 per cent of the world total and the largest producer in the EU34 was Germany, which produced nearly 22 per cent of EU34 steel output.

EU34 Production of crude steel 2010



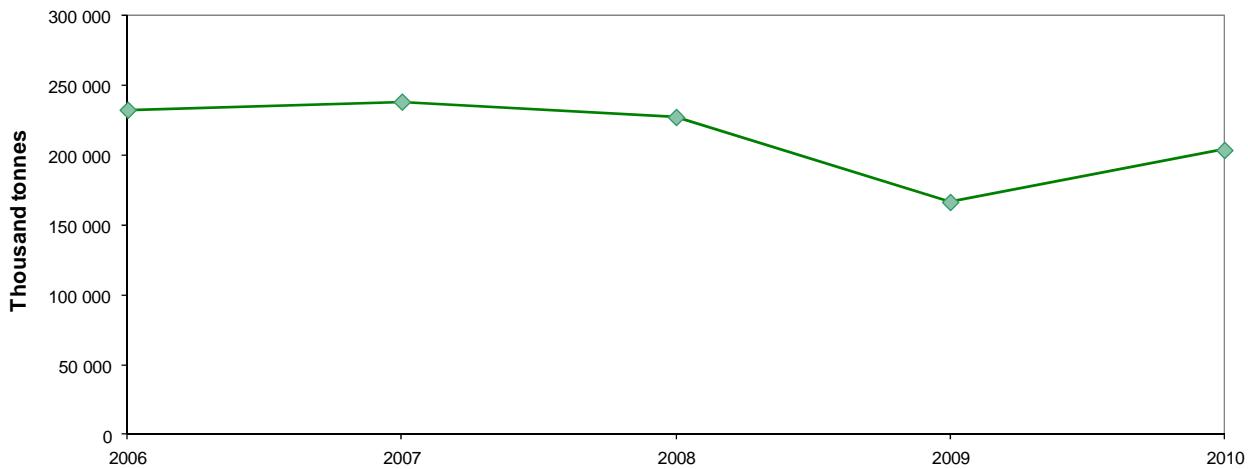
Production of crude steel

tonnes

Country	2006	2007	2008	2009	2010
Austria	7 129 000	7 577 000	7 594 000	5 662 000	7 206 000
Belgium	11 631 000	10 692 000	10 673 000	5 635 000	7 973 000
Bulgaria	2 102 000	1 909 000	1 330 000	726 000	744 000
Croatia	80 516	76 252	121 759	54 266	103 429
Czech Republic	6 862 000	7 059 000	6 387 000	4 594 000	5 180 000
Finland	5 053 714	4 430 726	4 416 792	3 066 000	4 030 000
France	19 852 125	19 249 862	17 879 161	12 840 108	15 413 577
Germany	47 223 000	48 550 000	45 832 000	32 670 000	43 830 000
Greece	2 416 000	2 554 000	2 477 000	2 000 000	1 821 000
Hungary	2 084 000	2 227 000	2 097 000	1 403 000	1 678 000
Italy	31 624 000	31 506 000	30 590 000	19 848 000	25 750 000
Latvia	* 690 000	* 696 000	* 635 000	* 692 000	* 655 000
Luxembourg	2 802 000	2 858 000	2 582 000	2 141 000	2 548 000
Macedonia	326 484	370 317	344 866	299 332	291 000
Montenegro	193 165	173 849	201 623	90 404	48 272
Netherlands	6 372 000	7 368 000	6 853 000	5 193 000	6 651 000
Norway	684 000	708 000	560 000	595 000	520 000
Poland	9 991 638	10 630 716	9 727 325	7 128 482	7 993 025
Portugal	1 338 000	1 847 000	1 630 000	1 587 000	1 351 000
Romania	6 266 036	6 269 486	5 035 164	2 772 679	3 720 775
Slovakia	5 093 000	5 082 000	4 489 000	3 747 000	4 580 000
Slovenia	628 000	638 000	642 000	430 000	606 000
Spain	18 391 000	18 998 000	18 640 000	14 358 000	16 343 000
Sweden	5 466 100	5 672 900	5 197 600	2 803 700	4 845 600
Switzerland	1 252 000	1 264 000	1 312 000	934 000	1 320 000
Turkey	23 307 523	25 760 889	26 809 050	25 303 741	29 029 789
United Kingdom	13 904 600	14 392 300	13 520 500	10 074 500	9 708 000
EU34 Total	232 763 000	238 560 000	227 577 000	166 648 000	203 939 000

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

EU34 Production of crude steel 2006 - 10

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 table for ferro-alloys as it is used for the same purpose.

Ferro-alloy production is usually undertaken close to the mine site or at distant locations where cheap energy supplies are available.

China is the largest world producer but, in the EU34, Norway is the largest producer based on imported metal ores and indigenous resources of silica.

Production of ferro-alloys

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Ferro-molybdenum	5 000	5 000	4 500	4 000	4 000
Ferro-nickel	2 500	3 000	2 000	2 500	2 500
Ferro-vanadium	6 250	6 500	6 300	6 200	8 000
Bulgaria					
Ferro-silicon	* 10 000	* 10 000	6 260	* 2 600	* 2 000
Czech Republic					
Ferro-vanadium	* 2 800	* 1 700	* 2 800	* 1 900	* 3 400
Finland					
Ferro-chrome	243 350	241 760	233 550	123 310	238 000
France					
Ferro-manganese and spiegeleisen	139 533	98 066	* 100 000	* 100 000	* 100 000
Ferro-silico-manganese	63 300	* 65 400	* 60 200	* 54 100	* 54 000
Ferro-silicon	* 67 000	* 71 000	* 25 000	* 25 000	* 25 000
Silicon metal	* 85 000	* 85 000	* 85 000	* 51 000	* 51 000
Germany					
Ferro-chrome	26 710	22 030	26 960	13 667	...
Other ferro-alloys	* 24 100	* 5 000	* 5 000	—	—
Silicon metal	29 865	29 379	29 092	27 620	30 105
Greece					
Ferro-nickel	* 89 000	93 300	83 200	41 300	* 40 000
Iceland					
Ferro-silicon	113 798	114 886	107 882	112 992	114 230
Italy					
Ferro-manganese	* 30 000	* 30 000	* 30 000	* 20 000	* 25 000
Ferro-silico-manganese	96 600	87 000	87 000	56 000	108 000
Macedonia					
Ferro-nickel	10 942	15 321	15 026	12 000	* 11 000
Ferro-silicon	59 023	78 892	97 605	7 657	...
Norway					
Ferro-manganese	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	325 708	293 699	273 485	* 250 000	* 250 000
Ferro-silicon	123 819	170 024	185 344	233 974	* 235 000
Other ferro-alloys	* 60 000	* 62 000	* 60 000	* 60 000	* 60 000
Silicon metal	* 150 000	* 140 000	* 155 000	* 150 000	* 150 000
Poland					
Ferro-manganese	4 089	2 093	8 475	1 736	762
Ferro-silico-manganese	3 310	15 590	25 061	72	112
Ferro-silicon	13 034	58 538	56 031	9 673	53 206
Other ferro-alloys	4 488	6 255	2 948	4 190	197
Romania					
Ferro-chrome	—	—	6 179	15 377	14 353
Ferro-manganese	3 777	—	—	—	—
Ferro-silico-manganese	66 476	26 868	9 979	—	20 605
Slovakia					
Ferro-chrome	19	—	—	—	—
Ferro-silico-manganese	59 128	71 587	59 940	32 000	...
Ferro-silicon	16 155	8 583	10 844	4 600	...
Other ferro-alloys	65 498	74 065	61 194	22 250	...
Slovenia					
Ferro-silicon	12 550	* 6 000	* —	* —	* —

Iron, Steel and Ferro-Alloys

Production continued

tonnes

Country	2006	2007	2008	2009	2010
Spain					
Ferro-manganese	* 35 000	* 35 000	* 35 000	* 35 000	* 35 000
Ferro-silico-manganese	* 100 000	* 100 000	* 30 000	* 30 000	* 30 000
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	136 400	124 400	118 700	31 100	64 400
Ferro-silicon	4 600	4 300	—	—	—
Turkey					
Ferro-chrome	67 975	69 730	75 840	41 028	...
Ferro-silico-chrome	7 310	6 624	6 094	2 903	...

Exports of iron, steel and ferro-alloys

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Pig iron	5 695	6 958	7 539	2 354	4 476
Ferro-alloys	10 218	9 100	7 541	5 953	2 618
Silicon metal	1 884	5 166	5 412	4 795	7 403
Ingots, blooms, billets	303 284	286 765	284 063	187 410	190 343
Scrap	1 140 091	1 279 775	1 351 725	1 067 926	1 034 398
Belgium					
Pig iron	230 490	275 388	283 034	160 120	254 854
Sponge and powder	19 750	36 997	20 732	14 655	35 395
Ferro-chrome	38 401	54 201	38 927	20 403	25 965
Ferro-silico-chrome	17 169	15 141	12 463	15 645	5 849
Ferro-manganese	7 696	16 124	24 024	9 915	26 544
Ferro-silico-manganese	41 422	52 431	40 777	31 374	48 652
Ferro-molybdenum	22 679	20 153	17 759	16 396	19 593
Ferro-silicon	38 690	68 383	54 905	47 214	23 071
Other ferro-alloys	6 411	8 732	5 401	2 433	2 502
Silicon metal	6 765	5 869	6 673	5 954	8 522
Ingots, blooms, billets	859 248	1 008 252	908 563	279 680	487 535
Scrap	3 052 438	2 957 464	3 250 800	3 245 159	3 754 403
Bulgaria					
Pig iron	44 549	62 032	23 553	1 420	1 141
Ferro-silico-manganese	3 638	6 845	288	...	19
Ferro-silicon	3 345	4 972	2 076	2 890	980
Other ferro-alloys	180	2 072	550	9 867	4 729
Silicon metal	11	2 374	46	...	3
Ingots, blooms, billets	163 020	135 710	85 466	54 115	30 327
Scrap	722 261	677 347	740 414	510 997	949 000
Croatia					
Scrap	398 070	427 540	357 487	302 085	357 015
Cyprus					
Scrap	65 998	63 662	72 106	80 349	96 654
Czech Republic					
Pig iron	17 599	31 182	30 457	24 041	65 473
Ferro-silicon	6 516	8 254	8 780	4 285	9 806
Ferro-vanadium	2 763	1 685	2 830	1 868	3 440
Other ferro-alloys	15 078	8 704	13 897	12 274	23 873
Silicon metal	1 040	1 118	1 375	783	847
Ingots, blooms, billets	324 619	587 296	500 423	222 780	320 821
Scrap	1 456 061	1 678 565	1 792 889	1 442 865	1 814 398
Denmark					
Ferro-silicon	14 611	64	70	85	238
Other ferro-alloys	238	701	585	330	83
Ingots, blooms, billets	2 199	12 820	16 775	13 287	19 143
Scrap	1 414 060	1 263 987	1 372 424	1 335 754	1 596 485

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Estonia					
Pig iron	...	(a)* 1 360	1	(a)* 1	97
Ferro-alloys	672	159	153	100	124
Ingots, blooms, billets	425	5 985	1 392	3 159	1 203
Scrap	592 372	572 216	650 099	384 299	512 766
Finland					
Pig iron	3 045	0	14 070	11 317	2 564
Ferro-chrome	37 663	100 022	37 709	61 319	126 713
Ingots, blooms, billets	284 313	185 229	281 325	253 440	263 863
Scrap	220 124	253 732	308 047	276 010	229 680
France					
Pig iron	113 729	89 768	88 462	151 699	52 439
Sponge and powder	13 059	17 948	14 698	5 261	18 917
Ferro-chrome	875	1 217	2 098	2 217	2 447
Ferro-silico-magnesium	2 165	16 377	28 255	10 787	39 115
Ferro-manganese	7 483	8 049	2 457	2 882	2 200
Ferro-silico-manganese	53 278	41 110	42 260	41 324	51 330
Ferro-molybdenum	673	481	374	379	548
Ferro-niobium	596	948	984	261	505
Ferro-silicon	63 432	50 334	73 824	51 676	77 144
Ferro-titanium and ferro-silico-titanium	1 992	2 292	1 493	844	1 869
Other ferro-alloys	22 699	357	150	10 612	6 180
Ingots, blooms, billets	3 071 836	2 650 976	2 830 986	1 814 051	1 858 111
Scrap	6 019 890	6 210 854	6 028 712	5 402 426	6 665 264
Germany					
Pig iron	180 939	145 453	153 917	86 491	180 542
Sponge and powder	197 636	147 303	95 846	28 183	56 763
Ferro-chrome	36 289	39 892	36 856	27 831	54 956
Ferro-silico-magnesium	12 142	24 051	22 191	9 323	12 517
Ferro-manganese	24 659	14 733	11 802	9 043	12 387
Ferro-silico-manganese	9 748	8 684	10 354	4 436	3 377
Ferro-molybdenum	3 499	3 636	3 858	3 229	3 174
Ferro-nickel	115	2 116	1 036	1 725	7 869
Ferro-niobium	1 130	1 149	1 057	321	538
Ferro-phosphorus	977	839	477	475	1 452
Ferro-silicon	53 963	51 343	63 858	63 214	95 683
Ferro-titanium and ferro-silico-titanium	4 795	6 011	4 237	1 662	4 180
Ferro-tungsten and ferro-silico-tungsten	423	480	460	339	640
Ferro-vanadium	268	558	413	755	659
Other ferro-alloys	10 720	...	...	...	...
Ingots, blooms, billets	2 171 036	2 496 951	2 047 223	1 655 376	2 150 091
Scrap	7 605 306	7 770 479	8 268 662	7 275 257	9 175 802
Greece					
Ferro-alloys	511	340	3 671	377	999
Ingots, blooms, billets	13 899	121 989	162 819	102 721	143 318
Scrap	126 188	34 584	36 018	34 840	66 989
Hungary					
Ferro-alloys	—	829	47	...	104
Ingots, blooms, billets	14 731	36 548	90 282	4 315	9 274
Scrap	658 499	567 923	691 805	636 805	1 132 142
Iceland					
Ferro-silicon	103 572	117 230	105 868	1 129 930	114 231
Silicon metal	—	15	—	200	—
Scrap	28 908	68 014	60 287	38 075	37 328
Ireland, Republic of					
Scrap	398 587	478 562	485 387	428 416	484 871

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Italy					
Pig iron	22 114	50 789	36 137	61 761	38 026
Sponge and powder	194	1 097	615	452	729
Ferro-chrome	8 276	5 411	4 593	2 066	5 020
Ferro-silico-magnesium	93	2 061	1 681	673	733
Ferro-manganese	8 670	14 562	12 890	7 457	9 186
Ferro-silico-manganese	4 086	7 048	6 882	4 322	4 316
Ferro-molybdenum	174	68	277	1 266	149
Ferro-nickel	173	239	123	418	176
Ferro-silicon	4 457	7 113	7 094	6 395	6 329
Other ferro-alloys	1 986	84	95	68	103
Silicon metal	3 304	4 576	6 007	3 200	3 284
Ingots, blooms, billets	958 626	983 369	964 245	570 380	909 562
Scrap	190 139	240 735	387 528	325 026	422 731
Latvia					
Ingots, blooms, billets	2 626	4 371	4 010	2 323	2 442
Scrap	313 455	245 958	388 456	213 766	396 794
Lithuania					
Ferro-alloys	17 952	15 437	11 188	3 093	104
Scrap	681 692	661 349	659 646	422 436	595 721
Luxembourg					
Ingots, blooms, billets	148 004	81 112	49 843	16 793	10 953
Scrap	268 855	311 114	504 067	114 924	165 832
Macedonia					
Ferro-silico-manganese	6 682	48 258	...	10 938	31 344
Ferro-nickel	45 058	71 189	...	...	...
Ferro-silicon	62 794	30 139	...	16 621	19 491
Scrap	98 763	124 200	104 326	59 407	71 830
Malta					
Scrap	19 012	28 083	25 379	27 775	29 498
Montenegro					
Ingots, blooms, billets	4 943	18 136	32 159	15 423	18 775
Scrap	931	12 380	10 229	14 442	28 570
Netherlands					
Pig iron	28 806	134 324	170 468	89 714	111 189
Sponge and powder	22 899	543	382	* 140	359
Ferro-chrome	92 920	94 048	103 036	62 439	170 489
Ferro-silico-chrome	299	25	15	...	448
Ferro-manganese	28 423	42 958	65 203	33 193	35 353
Ferro-silico-manganese	14 118	21 432	17 571	37 593	66 085
Ferro-molybdenum	5 652	5 579	3 150	1 894	6 462
Ferro-nickel	42 421	42 331	5 086	3 564	6 264
Ferro-niobium	217	1 439	1 736	925	1 175
Ferro-silicon	97 120	106 764	71 762	87 348	219 244
Ferro-titanium and ferro-silico-titanium	4 281	3 706	3 046	2 730	10 510
Ferro-tungsten and ferro-silico-tungsten	477	2 010	1 168	476	727
Ferro-vanadium	5 855	7 263	2 274	926	1 909
Other ferro-alloys	5 683	7 719	22 603	5 582	10 076
Silicon metal	56 525	15 237	15 547	46 466	69 896
Ingots, blooms, billets	378 061	1 111 462	806 999	157 861	849 018
Scrap	4 786 987	4 500 919	4 523 660	* 2 835 000	5 541 773
Norway					
Pig iron (a)	* 149 400	* 119 800	* 110 100	* 75 000	* 118 000
Ferro-chrome (a)	* 200	* 100	* 80	—	* 30
Ferro-manganese (a)	* 287 500	* 329 400	* 354 000	* 203 000	* 332 000
Ferro-silico-manganese	306 932	280 028	257 804	200 279	245 095
Ferro-silicon	90 556	155 198	209 669	115 682	214 643
Other ferro-alloys	58 033	...	57 954	16 207	2 132
Silicon metal	152 514	144 607	155 385	109 254	162 649
Ingots, blooms, billets	180 500	176 755	62 625	106 505	64 474
Scrap	337 088	290 644	269 370	228 138	337 675

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Poland					
Pig iron	19 286	7 481	5 189	10 543	17 340
Ferro-manganese and ferro-silico-manganese	11 954	20 412	37 978	21 640	10 113
Ferro-silicon	16 023	46 923	52 976	16 401	59 845
Other ferro-alloys	1 630	2 364	2 752	2 440	8 320
Ingots, blooms, billets	964 361	1 575 099	1 580 450	664 035	490 919
Scrap	1 197 827	1 199 620	1 368 952	978 862	1 334 069
Portugal					
Ingots, blooms, billets	79 697	138 692	164 425	136 284	172 983
Scrap	479 017	378 043	172 133	216 037	303 013
Romania					
Sponge and powder	12 851	17 832	18 697	18 807	24 454
Ferro-silico-manganese	41 000	33 529	5 793	8 120	19 087
Other ferro-alloys	3 561	872	1 493	6 273	14 579
Ingots, blooms, billets	87 685	183 551	220 136	51 644	196 302
Scrap	1 862 498	1 963 213	1 985 977	2 565 443	2 519 237
Slovakia					
Pig iron	50 497	10 588	20 676	29 779	70 588
Ferro-manganese	59 475	49 723	48 747	19 204	14 032
Ferro-silico-manganese	73 050	62 898	55 873	37 792	35 764
Ferro-silicon	25 240	16 437	21 352	15 823	19 656
Other ferro-alloys	8 033	13 604	15 436	5 277	13 407
Ingots, blooms, billets	654 743	508 620	241 811	255 917	631 135
Scrap	524 597	404 401	525 777	318 290	556 952
Slovenia					
Pig iron	3 511	14 942	24 639	4 412	10 507
Ferro-silicon	26 859	15 277	20 826	6 628	7 280
Other ferro-alloys	22 497	24 205	12 516	9 989	17 386
Silicon metal	3 006	1 875	1 149	3 049	5 568
Ingots, blooms, billets	12 273	31 849	21 006	12 296	17 320
Scrap	222 403	245 869	199 016	284 958	343 716
Spain					
Pig iron	4 202	12 491	9 747	4 772	2 998
Sponge and powder	4 030	6 404	4 763	2 566	2 658
Ferro-chrome	1 024	2 461	4 768	367	1 025
Ferro-manganese	91 018	71 345	65 330	29 403	52 296
Ferro-silico-manganese	32 806	33 636	34 307	25 859	58 097
Ferro-molybdenum	317	70	45	242	359
Ferro-silicon	7 759	18 323	9 562	5 939	12 854
Other ferro-alloys	493	1 170	1 285	1 178	2 191
Silicon metal	16 566	16 175	16 008	5 571	18 463
Ingots, blooms, billets	114 897	91 085	310 671	261 758	337 566
Scrap	137 273	162 371	214 913	302 465	277 401
Sweden					
Pig iron	145 733	152 911	62 588	141 261	146 027
Sponge and powder	15 238	26 666	19 844	6 558	12 335
Ferro-chrome	1 973	2 247	3 534	3 368	51 010
Ferro-silico-magnesium	739	1 260	...	50	17
Ferro-manganese and ferro-silico-manganese	2 584	3 859	3 620	2 423	3 517
Ferro-molybdenum	157	304	301	193	340
Ferro-phosphorus	706	1 128	1 370	364	582
Ferro-silicon	1 968	2 892	2 616	3 004	6 905
Ferro-vanadium	61	135	112	250	50
Other ferro-alloys	1 289	216	895	280	481
Silicon metal	2 321	1 474	2 458	968	2 337
Ingots, blooms, billets	116 880	134 568	102 086	58 631	261 273
Scrap	847 179	1 069 335	1 449 311	1 439 126	1 352 399
Switzerland					
Sponge and powder	2 233	2 537	2 126	1 564	2 191
Ferro-alloys	616	653	642	943	1 191
Ingots, blooms, billets	88 289	104 433	65 257	48 349	66 642
Scrap	582 567	585 342	636 462	565 415	623 910
Scrap	44 474	29 237	77 654	66 673	94 498

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Turkey					
Pig iron	1 150	—	10 372	10 616	8 028
Ferro-chrome	60 952	63 209	39 324	75 236	74 570
Other ferro-alloys	1 747	7 122	5 682	6 199	11 898
Ingots, blooms, billets	1 630 209	1 660 642	2 501 135	2 431 211	3 716 586
United Kingdom					
Pig iron	5 407	15 892	2 523	27 765	4 339
Sponge and powder	2 346	4 969	2 794	3 103	2 938
Ferro-chrome and ferro-silico-chrome	4 066	2 973	1 385	1 524	2 425
Ferro-silico-magnesium	653	917	976	458	366
Ferro-manganese	946	1 136	1 210	963	8 361
Ferro-silico-manganese	60	7	49	65	52
Ferro-molybdenum	12 004	11 823	11 283	7 634	11 248
Ferro-nickel	329	52	81	18	15
Ferro-niobium	74	49	58	52	224
Ferro-phosphorus	36	33	45	312	667
Ferro-silicon	2 733	2 314	3 250	3 338	2 958
Ferro-titanium and ferro-silico-titanium	17 645	19 515	18 557	13 098	15 197
Ferro-tungsten and ferro-silico-tungsten	17	8	31	1	4
Ferro-vanadium	151	96	79	64	24
Other ferro-alloys	3 637	2 917	3 981	1 373	3 774
Silicon metal	6 963	11 325	15 132	7 753	2 901
Ingots, blooms, billets	2 692 654	3 514 850	3 348 794	2 118 701	1 137 160
Scrap	7 407 174	6 013 907	6 616 708	6 007 656	7 507 853

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	2006	2007	2008	2009	2010
Austria					
Pig iron	40 133	69 614	43 663	30 084	25 355
Sponge and powder	20 542	31 775	56 471	13 980	13 537
Ferro-chrome	34 196	49 977	47 748	20 400	29 355
Ferro-silico-magnesium	522	1 746	2 021	1 843	3 681
Ferro-manganese	29 385	38 857	36 491	18 962	17 840
Ferro-silico-manganese	22 456	30 340	22 322	17 927	22 976
Ferro-molybdenum	1 632	1 370	1 552	801	742
Ferro-niobium	955	956	1 125	665	1 061
Ferro-phosphorus	1 520	1 692	2 011	1 095	1 232
Ferro-silicon	25 609	26 180	27 850	12 825	27 063
Ferro-titanium and ferro-silico-titanium	1 081	793	879	388	471
Ferro-tungsten and ferro-silico-tungsten	677	796	1 277	208	552
Other ferro-alloys	1 711	193	350	33	166
Silicon metal	12 937	16 581	15 601	7 288	11 497
Ingots, blooms, billets	132 901	208 910	191 426	46 762	159 527
Scrap	1 089 942	1 371 393	1 629 170	1 196 327	991 574
Other ferro-alloys	7 225	528	494	8 184	443
Silicon metal	20 116	17 236	20 015	18 995	23 566
Ingots, blooms, billets	2 876 977	2 711 671	2 536 024	1 966 055	2 554 975
Scrap	4 297 928	4 279 076	4 214 915	3 678 867	4 726 992

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Belgium					
Pig iron	560 116	551 990	547 962	281 872	331 652
Sponge and powder	103 154	33 504	22 005	19 389	39 503
Ferro-chrome	342 280	452 116	378 017	185 381	263 715
Ferro-silico-chrome	19 190	17 149	15 483	—	1 950
Ferro-silico-magnesium	2 040	11 673	9 505	4 655	9 031
Ferro-manganese	54 402	62 712	83 610	21 327	48 471
Ferro-silico-manganese	69 526	101 380	63 577	36 931	72 195
Ferro-molybdenum	5 929	5 405	2 339	2 215	2 160
Ferro-nickel	73 384	90 808	89 430	46 248	48 017
Ferro-niobium	936	2 675	1 530	1 089	1 890
Ferro-phosphorus	1 607	2 116	10 421	3 124	2 612
Ferro-silicon	109 389	146 267	118 585	62 888	92 785
Ferro-titanium and ferro-silico-titanium	3 016	3 522	5 572	2 161	2 926
Bulgaria					
Pig iron	15 278	26 932	27 941	6 736	14 781
Sponge and powder	542	31 306	1 282	14 572	317
Ferro-chrome	1 088	916	656	182	356
Ferro-manganese	6 133	7 981	4 206	3 137	3 137
Ferro-silico-manganese	1 885	3 336	4 325	3 479	4 291
Ferro-silicon	4 410	2 977	3 331	1 152	2 520
Other ferro-alloys	1 789	2 390	1 906	1 033	1 060
Silicon metal	9 733	873	763	247	533
Ingots, blooms, billets	417 485	462 348	567 381	306 020	258 743
Scrap	188 698	295 555	237 055	202 276	269 483
Croatia					
Pig iron	16 994	17 011	15 031	8 420	10 343
Ferro-alloys	3 031	3 027	4 790	2 239	4 051
Ingots, blooms, billets	27 291	20 953	20 077	19 396	6 514
Scrap	17 563	29 553	19 400	10 628	30 395
Czech Republic					
Pig iron	150 032	108 715	111 872	47 666	54 625
Sponge and powder	10 136	20 580	24 791	10 006	15 391
Ferro-chrome	20 492	34 123	26 043	14 715	16 962
Ferro-silico-magnesium	1 236	6 297	5 778	3 192	3 784
Ferro-manganese	32 355	35 500	33 704	23 630	26 204
Ferro-silico-manganese	57 857	52 153	48 962	34 418	40 732
Ferro-molybdenum	1 889	2 025	2 049	949	1 868
Ferro-silicon	36 361	41 482	37 230	23 936	31 908
Ferro-vanadium	429	440	578	299	482
Other ferro-alloys	9 080	1 697	1 644	836	1 303
Silicon metal	4 986	6 584	5 826	4 408	5 805
Ingots, blooms, billets	409 753	445 181	525 598	220 524	651 182
Scrap	560 676	521 779	502 256	377 942	410 647
Denmark					
Pig iron	18 128	18 349	14 064	10 299	10 263
Sponge and powder	80 148	61 079	3 602	1 742	3 229
Ferro-silico-magnesium	1 322	1 795	1 465	348	177
Ferro-silicon	4 069	1 887	1 702	569	2 864
Other ferro-alloys	1 771	595	1 080	217	250
Silicon metal	1 586	741	263	65	42
Ingots, blooms, billets	588 053	780 837	672 439	328 893	538 503
Scrap	238 142	213 776	392 453	269 841	337 192
Estonia					
Ferro-alloys	1 815	1 240	1 114	305	656
Scrap	64 110	53 155	37 774	9 267	8 434

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Finland					
Pig iron	45 364	53 901	42 681	18 097	36 120
Sponge and powder	779 146	880 575	942 664	493 087	872 476
Ferro-chrome	17 926	9 650	11 182	5 094	7 055
Ferro-silico-magnesium	3 993	3 989	3 768	1 337	4 838
Ferro-manganese	14 828	18 138	15 709	5 985	10 595
Ferro-silico-manganese	38 440	34 994	34 139	20 642	30 204
Ferro-molybdenum	1 948	1 892	1 730	584	1 316
Ferro-nickel	53 741	54 106	50 294	17 098	25 746
Ferro-niobium	493	570	757	318	629
Ferro-phosphorus	550	560	380	285	543
Ferro-silicon	36 659	31 814	29 740	21 437	31 395
Ferro-titanium and ferro-silico-titanium	1 558	1 707	1 857	710	1 043
Other ferro-alloys	259	311	425	91	235
Silicon metal	1 402	1 318	1 638	548	1 390
Ingots, blooms, billets	5 138	7 649	11 114	30 206	18 268
Scrap	1 013 675	687 887	596 792	467 642	754 398
France					
Pig iron	183 755	195 466	202 077	115 722	139 186
Sponge and powder	219 813	147 662	89 809	26 695	52 795
Ferro-chrome	159 940	106 513	111 584	71 570	111 080
Ferro-silico-chrome	677	8	69	20	50
Ferro-silico-magnesium	18 536	26 899	26 786	12 067	17 244
Ferro-manganese	57 240	63 487	69 464	33 948	44 405
Ferro-silico-manganese	49 287	45 827	54 004	34 758	35 405
Ferro-molybdenum	5 223	5 650	5 637	3 263	3 720
Ferro-nickel	4 487	6 373	5 887	12 709	7 724
Ferro-niobium	2 597	2 785	3 266	1 183	2 195
Ferro-phosphorus	2 360	2 528	2 698	1 670	2 656
Ferro-silicon	64 727	52 945	61 740	30 913	51 906
Ferro-titanium and ferro-silico-titanium	9 037	10 009	8 293	2 647	5 457
Ferro-tungsten and ferro-silico-tungsten	839	597	666	247	343
Ferro-vanadium	1 396	1 432	1 575	819	1 065
Silicon metal	21 813	19 659	23 885	15 243	19 135
Ingots, blooms, billets	1 557 219	1 998 943	1 747 005	1 113 710	1 807 094
Scrap	3 319 269	3 197 843	3 241 199	2 407 619	2 450 993
Germany					
Pig iron	422 525	655 022	713 470	402 132	421 287
Sponge and powder	193 503	249 673	90 069	294 393	500 970
Ferro-chrome	458 070	484 276	544 619	305 008	454 005
Ferro-silico-chrome	12 867	14 426	12 886	8 648	29 047
Ferro-silico-magnesium	23 761	25 758	23 645	12 238	14 754
Ferro-manganese	195 387	217 428	209 083	122 063	203 200
Ferro-silico-manganese	181 726	210 703	156 484	111 008	185 067
Ferro-molybdenum	17 473	18 423	17 434	12 484	16 375
Ferro-nickel	150 789	169 677	177 851	127 087	192 394
Ferro-niobium	6 063	6 176	6 269	4 047	5 923
Ferro-phosphorus	5 575	6 519	4 801	1 332	6 067
Ferro-silicon	214 736	274 783	215 374	146 127	272 466
Ferro-titanium and ferro-silico-titanium	13 492	15 339	13 824	5 461	8 754
Ferro-tungsten and ferro-silico-tungsten	990	1 512	2 182	1 366	787
Ferro-vanadium	5 171	5 711	5 333	3 421	5 034
Other ferro-alloys	13 698	—	—	1	—
Silicon metal	184 499	190 933	225 185	183 516	255 977
Ingots, blooms, billets	2 578 298	3 095 162	2 970 042	1 171 865	1 611 091
Scrap	5 592 745	5 920 061	5 675 167	3 865 110	5 305 194
Greece					
Pig iron	9 172	10 461	9 185	9 107	4 427
Sponge and powder	492	6 741	7 709	9 685	5 772
Ferro-chrome	871	1 016	1 146	916	693
Ferro-manganese	640	2 654	1 753	1 216	837
Ferro-silico-manganese	31 524	38 321	24 943	8 023	18 515
Ferro-silicon	4 694	18 783	8 170	4 569	4 888
Other ferro-alloys	444	546	504	170	849
Silicon metal	1 408	1 383	2 312	906	1 426
Ingots, blooms, billets	120 241	250 572	171 231	159 350	28 092
Scrap	1 517 545	1 637 437	1 485 316	1 159 166	1 008 235

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Hungary					
Pig iron	14 821	13 285	12 951	3 403	7 158
Sponge and powder	2 968	3 116	1 043	425	756
Ferro-silico-magnesium	801	1 132	12 753	15 503	554
Ferro-manganese	15 611	4 311	4 318	2 037	12 015
Ferro-silico-manganese	3 303	4 168	4 661	922	724
Ferro-silicon	4 821	5 907	5 232	3 100	3 630
Other ferro-alloys	876	403	640	277	460
Silicon metal	4 847	2 982	2 184	2 589	4 010
Ingots, blooms, billets	38 956	29 820	273 585	104 855	30 505
Scrap	65 136	87 369	146 494	34 357	56 974
Iceland					
Pig iron	956	502	1 128	1 333	1 148
Ferro-alloys	43	63	113	5 641	6 838
Silicon metal	364	466	1 614	237	4 366
Ingots, blooms, billets	1 647	4 352	1 361	1 528	633
Scrap	—	—	1 164	643	11 545
Ireland, Republic of					
Pig iron	2 710	939	2 359	1 202	1 345
Ferro-alloys	401	464	370	737	385
Ingots, blooms, billets	7 928	8 319	5 459	5 373	7 332
Scrap	3 650	4 179	4 206	4 388	4 030
Italy					
Pig iron	1 791 165	2 235 376	2 238 037	895 818	1 018 615
Sponge and powder	468 825	465 834	396 660	174 364	278 989
Ferro-chrome	464 364	419 392	389 002	296 813	390 374
Ferro-silico-magnesium	6 809	16 751	15 716	6 026	9 269
Ferro-manganese	95 010	108 976	96 771	46 537	71 406
Ferro-silico-manganese	216 632	229 755	186 135	119 670	158 540
Ferro-molybdenum	7 469	7 433	8 318	3 998	6 141
Ferro-nickel	129 870	91 651	104 198	78 383	98 168
Ferro-niobium	2 194	2 783	2 733	1 395	2 751
Ferro-phosphorus	547	721	488	550	631
Ferro-silicon	147 121	154 797	122 236	89 909	137 031
Ferro-titanium and ferro-silico-titanium	3 922	4 230	3 861	4 462	3 876
Ferro-tungsten and ferro-silico-tungsten	307	385	578	300	247
Ferro-vanadium	1 839	2 521	2 445	1 158	1 901
Other ferro-alloys	9 727	1	243	—	97
Silicon metal	51 696	57 854	57 493	27 402	48 392
Ingots, blooms, billets	5 792 203	5 991 974	5 311 325	2 655 726	3 681 439
Scrap	5 668 405	5 242 020	5 705 462	3 321 387	4 609 403
Latvia					
Pig iron	57 696	65 437	56 964	38 140	45 454
Sponge and powder	112	131	19	14 931	4 460
Ferro-chrome (a)	* 3	* 20	* 130	* 9 050	* 300
Ferro-manganese	3 281	3 021	10 334	2 345	4 090
Ferro-silico-manganese	5 628	14 947	23 477	14 722	18 898
Ferro-silicon	2 550	3 086	18 466	15 085	24 660
Other ferro-alloys	416	372	132	415	158
Silicon metal	1 409	656	467	783	1 553
Ingots, blooms, billets	145 037	158 649	146 505	226 967	206 428
Scrap	266 616	294 904	412 240	214 564	443 817
Lithuania					
Pig iron	1 008	1 660	1 218	415	315
Ferro-chrome	6 140	9 705	9 634	2 842	32
Ferro-silico-manganese	6 864	5 983	...	2	...
Other ferro-alloys	1 413	437	457	114	161
Ingots, blooms, billets	5 260	6 011	9 661	1 229	4 270
Scrap	103 878	64 661	64 462	29 805	35 270
Luxembourg					
Ferro-manganese	1 886	3 275	5 478	1 132	910
Ferro-silico-manganese	24 762	47 741	28 617	25 617	27 116
Ferro-niobium	246	577	473	166	192
Ferro-silicon	4 594	3 987	8 115	2 846	3 428
Other ferro-alloys	816	841	1 309	582	906
Ingots, blooms, billets	823 111	788 410	1 004 405	364 945	407 419
Scrap	3 238 139	3 137 236	3 880 672	1 829 754	2 693 481

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Macedonia					
Pig iron	3 781	2 467	2 609	1 732	1 823
Ferro-alloys	2 860	3 737	3 402	1 618	2 401
Ingots, blooms, billets	359 029	501 134	482 294	157 566	145 509
Scrap	277 360	310 410	255 543	7 375	292 049
Montenegro					
Pig iron	244	2 040	17 864	13 954	322
Ferro-silico-manganese	2 028	2 306	2 921	1 664	1 663
Ferro-silicon	566	559	697	271	288
Other ferro-alloys	442	629	422	127	297
Scrap	100 413	138 421	138 502	54 801	19 950
Netherlands					
Pig iron	122 097	158 199	292 867	122 185	98 575
Sponge and powder	251 304	244 874	253 882	109 768	378 111
Ferro-chrome	204 637	325 741	275 995	40 931	93 919
Ferro-silico-chrome	1 125	674	1	1 394	2 838
Ferro-manganese	102 493	105 789	96 135	39 045	86 504
Ferro-silico-manganese	47 986	81 034	70 108	29 335	57 967
Ferro-molybdenum	7 554	11 826	8 566	2 868	4 643
Ferro-nickel	17 866	16 878	17 602	4 274	19 378
Ferro-niobium	159	465	2 074	949	920
Ferro-silicon	122 016	160 792	114 290	79 461	178 138
Ferro-titanium and ferro-silico-titanium	11 005	10 730	6 781	1 860	11 922
Ferro-tungsten and ferro-silico-tungsten	965	1 186	1 572	554	1 168
Ferro-vanadium	4 409	4 132	2 042	519	2 014
Other ferro-alloys	25 282	12 829	30 407	6 951	11 263
Silicon metal	69 104	68 719	57 446	41 740	82 599
Ingots, blooms, billets	390 652	269 481	283 834	110 561	536 157
Scrap	2 321 144	1 669 159	1 842 597	* 1 135 000	1 988 278
Norway					
Pig iron	12 813	11 335	11 198	10 639	1 498
Ferro-chrome	1 440	1 303	929	1 162	1 311
Ferro-manganese	5 328	10 639	7 448	6 608	5 303
Ferro-silico-manganese	2 729	1 034	1 960	1 186	548
Ferro-silicon	26 931	43 350	13 502	9 097	10 615
Other ferro-alloys	3 392	3 681	2 471	926	1 665
Silicon metal	37 439	39 961	40 878	29 810	49 349
Ingots, blooms, billets	161 778	195 928	167 309	59 344	4 733
Scrap	313 184	267 085	96 427	91 114	108 802
Poland					
Pig iron	220 163	228 445	236 682	156 970	176 145
Sponge and powder	12 448	10 282	8 390	4 677	7 594
Ferro-chrome	12 318	14 113	13 713	6 064	7 785
Ferro-silico-magnesium	4 035	9 102	8 194	5 379	7 352
Ferro-manganese	35 508	42 352	31 876	32 935	30 721
Ferro-silico-manganese	63 332	79 942	47 964	71 585	56 882
Ferro-molybdenum	1 168	1 527	1 554	711	612
Ferro-phosphorus	1 195	1 492	1 386	675	917
Ferro-silicon	24 986	24 846	20 424	16 132	21 576
Other ferro-alloys	10 771	1 084	1 017	757	1 365
Silicon metal	11 935	13 946	11 652	11 839	16 219
Ingots, blooms, billets	569 057	679 404	584 305	157 799	119 466
Scrap	289 956	313 907	465 978	596 733	374 076
Portugal					
Pig iron	15 149	17 468	13 824	7 507	10 623
Sponge and powder	866	1 498	740	38 849	6 919
Ferro-chrome	1 160	1 050	1 093	245	810
Ferro-silico-magnesium	1 005	6 070	6 228	4 551	2 072
Ferro-manganese	816	1 281	908	762	856
Ferro-silico-manganese	12 779	9 835	10 063	9 921	3 820
Ferro-silicon	3 341	3 355	3 479	3 707	2 902
Other ferro-alloys	7 270	187	393	69	61
Ingots, blooms, billets	14 494	84 769	26 532	53 089	28 583
Scrap	1 056 949	1 075 517	1 128 391	887 110	672 856

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Romania					
Pig iron	9 872	53 779	37 889	61 027	111 702
Sponge and powder	1 415	2 446	3 203	1 518	2 740
Ferro-chrome	3 022	2 838	3 423	984	1 500
Ferro-manganese	36 872	34 126	28 773	9 063	15 530
Ferro-silico-manganese	18 432	37 558	17 919	11 461	19 151
Ferro-silicon	17 152	21 156	13 190	4 998	9 859
Other ferro-alloys	3 167	3 191	2 412	1 508	2 210
Silicon metal	8 947	1 192	3 155	1 104	3 098
Ingots, blooms, billets	633 196	922 499	757 551	109 046	458 742
Scrap	9 867	15 771	17 886	4 204	5 501
Slovakia					
Pig iron	59 145	59 778	70 034	19 468	33 258
Sponge and powder	25 064	52 697	* 143 700	4 090	13 227
Ferro-chrome	2 597	9 818	7 539	2 635	6 829
Ferro-silico-magnesium	2 801	3 289	3 507	640	1 626
Ferro-manganese	23 409	20 410	19 503	16 912	13 202
Ferro-silico-manganese	3 016	977	2 776	2 720	1 776
Ferro-niobium	849	906	897	154	315
Ferro-silicon	19 395	26 142	23 747	14 970	15 250
Ferro-titanium and ferro-silico-titanium	283	355	367	315	535
Other ferro-alloys	2 132	230	1 534	792	485
Silicon metal	5 416	6 004	6 391	4 460	6 309
Ingots, blooms, billets	17 086	20 708	18 953	54 781	10 020
Scrap	243 822	257 815	217 558	164 985	224 868
Slovenia					
Pig iron	70 254	102 973	68 153	24 031	29 120
Sponge and powder	1 067	1 420	1 311	1 053	1 225
Ferro-chrome	26 992	23 645	25 665	15 951	26 575
Ferro-silico-magnesium	7 215	2 052	3 418	1 682	2 388
Ferro-manganese	4 467	6 061	5 663	4 157	6 175
Ferro-silico-manganese	3 691	4 789	3 373	3 467	8 810
Ferro-molybdenum	539	569	540	410	717
Ferro-nickel	2 457	2 364	538	...	...
Ferro-silicon	17 937	14 017	24 651	11 335	13 114
Other ferro-alloys	2 812	2 862	1 984	899	1 687
Silicon metal	9 945	7 654	6 536	4 929	7 874
Ingots, blooms, billets	3 444	11 479	12 930	1 568	8 191
Scrap	434 330	363 362	367 968	281 950	495 432
Spain					
Pig iron	793 050	652 786	688 421	380 731	442 656
Sponge and powder	641 804	611 893	621 627	295 665	636 496
Ferro-chrome	253 172	1 123 216	203 518	113 275	164 125
Ferro-silico-magnesium	2 891	7 289	9 890	5 818	7 705
Ferro-manganese	14 406	24 599	17 126	13 357	19 930
Ferro-silico-manganese	42 326	48 205	74 962	50 683	39 895
Ferro-molybdenum	10 473	5 863	3 777	3 756	6 446
Ferro-nickel	92 147	75 625	68 355	43 936	47 389
Ferro-niobium	515	8 283	685	553	983
Ferro-phosphorus	1 771	2 554	1 488	193	1 425
Ferro-silicon	52 215	71 487	46 445	27 140	27 581
Ferro-titanium and ferro-silico-titanium	796	1 276	1 006	611	1 203
Ferro-vanadium	515	1 189	1 122	809	1 088
Other ferro-alloys	4 586	82	4 378	360	1 909
Silicon metal	2 837	3 640	8 856	9 523	8 446
Ingots, blooms, billets	1 601 769	1 733 247	1 587 605	1 007 820	1 269 577
Scrap	7 437 224	6 316 516	7 408 237	4 674 099	5 708 900

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Sweden					
Pig iron	43 492	59 661	80 450	40 076	58 974
Sponge and powder	7 346	16 799	11 861	2 691	11 668
Ferro-chrome	86 160	125 057	114 712	78 244	90 630
Ferro-silico-chrome	1 370	3 104	3 873	1 215	1 805
Ferro-silico-magnesium	5 903	5 986	8 916	2 154	2 445
Ferro-manganese	49 295	75 409	68 246	27 869	60 577
Ferro-silico-manganese	20 566	17 085	10 677	5 754	9 099
Ferro-molybdenum	4 976	4 377	5 693	2 652	4 388
Ferro-nickel	8 076	9 162	6 803	3 286	7 995
Ferro-niobium	1 504	1 242	1 264	604	1 146
Ferro-phosphorus	433	1 331	386	430	415
Ferro-silicon	37 095	42 315	34 249	25 880	37 424
Ferro-titanium and ferro-silico-titanium	1 681	691	1 370	653	1 127
Ferro-vanadium	1 202	1 005	956	547	729
Other ferro-alloys	76	105	153	30	76
Silicon metal	7 531	6 756	7 631	4 404	6 818
Ingots, blooms, billets	108 821	137 032	264 782	119 549	193 605
Scrap	279 956	242 167	193 207	174 279	217 682
Switzerland					
Pig iron	24 497	28 095	28 630	12 256	16 812
Sponge and powder	8 900	9 685	8 873	5 931	6 668
Ferro-chrome	1 306	1 834	1 803	288	1 480
Ferro-manganese	10 423	9 922	11 696	8 003	11 566
Ferro-silico-manganese	3 717	5 992	5 011	1 595	3 767
Ferro-silicon	7 122	5 287	5 264	4 287	5 014
Ferro-vanadium	83	72	52	82	548
Other ferro-alloys	1 352	1 406	1 034	529	876
Silicon metal	1 164	1 508	1 255	1 256	1 385
Ingots, blooms, billets	47 524	50 301	29 911	9 188	18 026
Scrap	499 914	475 542	505 597	313 055	452 626
Turkey					
Pig iron	333 981	338 641	802 741	770 160	557 398
Sponge and powder	34 440	19 801	96 393	81 008	284 608
Ferro-chrome	4 610	11 138	11 321	2 787	8 159
Ferro-silico-magnesium	1 122	2 627	12 008	6 047	8 137
Ferro-manganese	60 213	56 619	73 319	46 760	61 866
Ferro-silico-manganese	216 036	236 039	195 623	191 605	229 451
Ferro-molybdenum	1 020	1 628	1 645	1 173	1 577
Ferro-niobium	435	446	609	338	147
Ferro-phosphorus	919	246	1 731	412	1 050
Ferro-silicon	72 599	100 758	90 477	60 164	87 552
Ferro-titanium and ferro-silico-titanium	649	616	634	651	167
Ferro-vanadium	483	472	529	323	261
Other ferro-alloys	6 235	7 015	337	13	16
Silicon metal	5 233	2 530	6 207	5 852	9 978
Ingots, blooms, billets	1 504 374	1 930 627	3 849 141	3 590 665	2 350 758
Scrap	12 860 533	13 335 810	17 414 983	15 372 727	19 138 460

Imports continued

tonnes

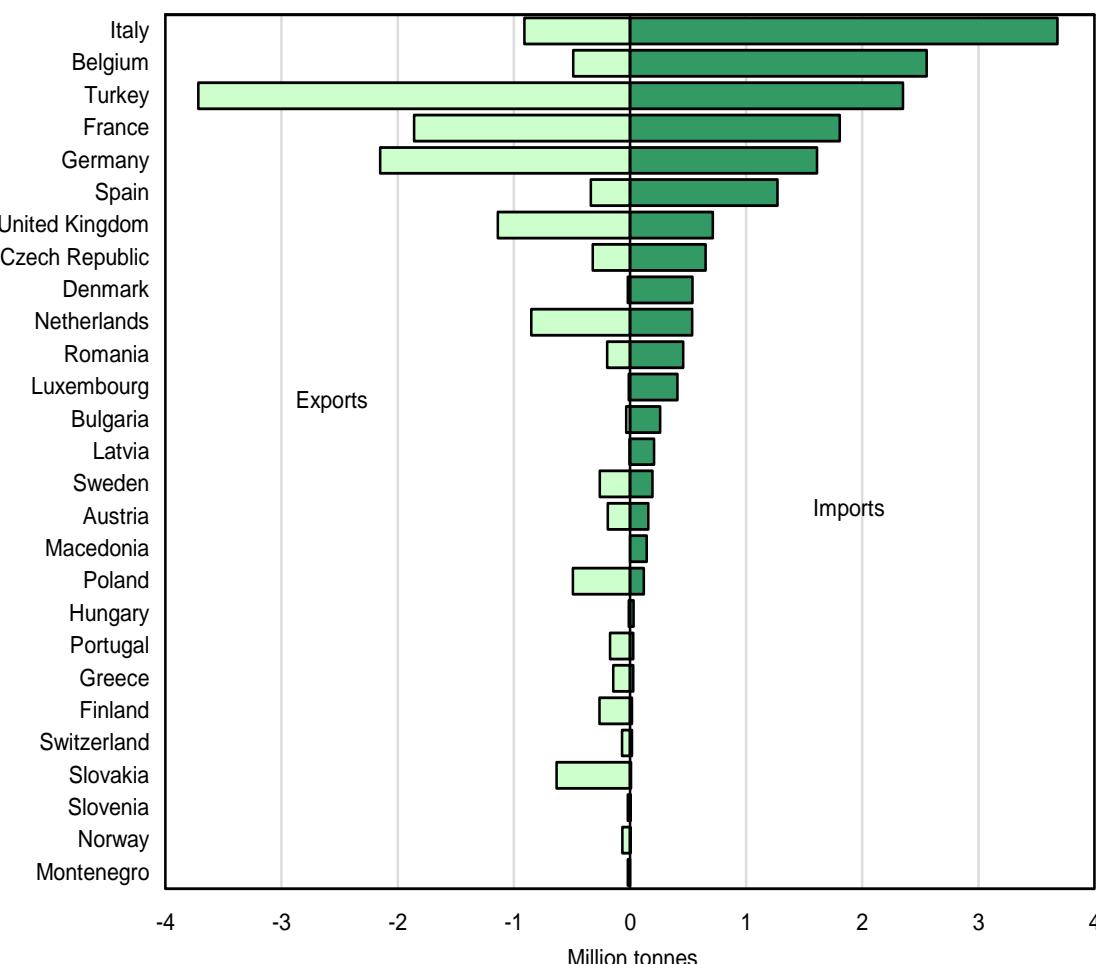
Country	2006	2007	2008	2009	2010
United Kingdom					
Pig iron	81 689	89 863	61 657	19 703	41 959
Sponge and powder	34 768	11 766	27 003	17 483	97 745
Ferro-chrome	52 494	46 975	79 692	34 884	58 398
Ferro-silico-chrome	350	1 242	128	26	9
Ferro-silico-magnesium	3 810	2 303	1 614	512	931
Ferro-manganese	86 598	100 694	96 461	49 700	46 985
Ferro-silico-manganese	59 985	56 036	52 966	37 114	49 280
Ferro-molybdenum	640	515	369	325	322
Ferro-nickel	13 169	14 960	16 520	2 777	6 284
Ferro-niobium	1 098	1 490	1 189	686	859
Ferro-phosphorus	386	2 070	2 473	282	836
Ferro-silicon	64 610	66 838	59 438	31 091	43 703
Ferro-titanium and ferro-silico-titanium	1 087	1 677	1 290	396	274
Ferro-tungsten and ferro-silico-tungsten	134	33	27	26	48
Ferro-vanadium	1 623	755	543	209	340
Other ferro-alloys	2 132	3 215	2 210	2 270	547
Silicon metal	29 512	25 787	56 807	68 109	99 651
Ingots, blooms, billets	1 053 176	849 803	679 019	212 829	714 541
Scrap	154 967	204 100	228 294	213 818	270 986

Note(s)

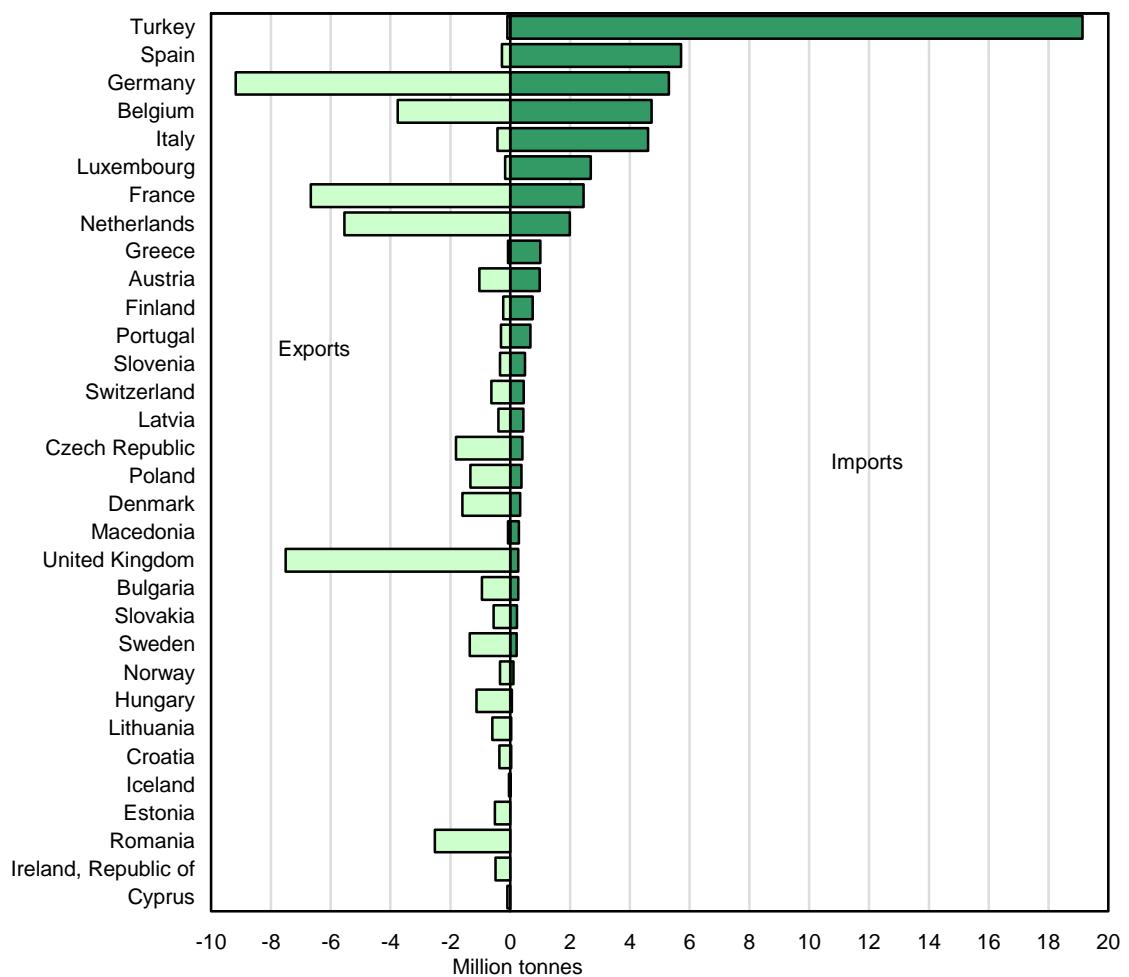
(1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

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

Iron and steel ingots, blooms and billets - EU34 trade in 2010



Iron and steel scrap - EU34 trade in 2010

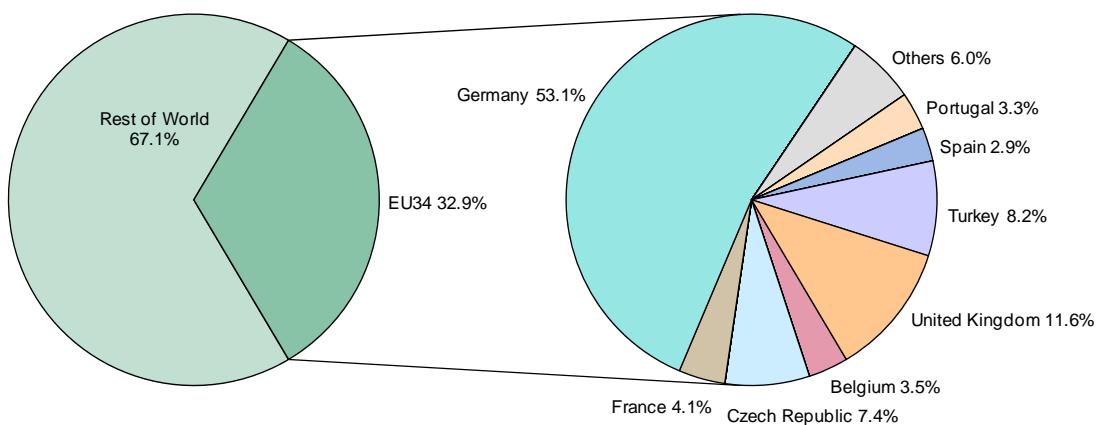


Kaolin

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.

Kaolin production is fairly stable in the EU34 countries, which in 2010 produced 33 per cent of world kaolin. Germany and the UK are the two largest producers in the EU34 and are the second and equal fifth biggest producers in the world, respectively. The USA was the world's largest producer in 2010, with 22 per cent of the total.

EU34 Production of kaolin 2010



Production of kaolin

tonnes

Country	2006	2007	2008	2009	2010
Austria	17 431	16 929	16 460	18 148	18 914
Belgium	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Bulgaria	* 240 000	* 240 000	* 220 000	* 140 000	* 190 000
Czech Republic (a)	673 000	682 000	664 000	488 000	636 000
France	* 300 000	(b) 350 742	(b) 335 520	(b) 227 342	350 000
Germany (c)	3 815 173	3 842 514	3 622 159	4 513 753	4 578 097
Greece	* 40 000	30 000	4 360	—	—
Hungary	1 350	2 136	—	—	—
Italy	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Poland (d)	148 579	153 670	165 615	136 561	126 810
Portugal	167 792	183 598	217 434	274 925	284 715
Romania	11 063	7 576	3 060	651	326
Slovakia	58 000	46 000	44 000	10 000	—
Spain (d)	476 327	489 428	355 739	270 298	250 820
Turkey	* 600 000	456 238	232 746	234 614	711 493
United Kingdom	1 762 328	1 671 426	1 355 365	1 059 848	* 1 000 000
EU34 Total	8 800 000	8 700 000	7 700 000	7 900 000	8 600 000

Note(s)

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

(a) Beneficiated

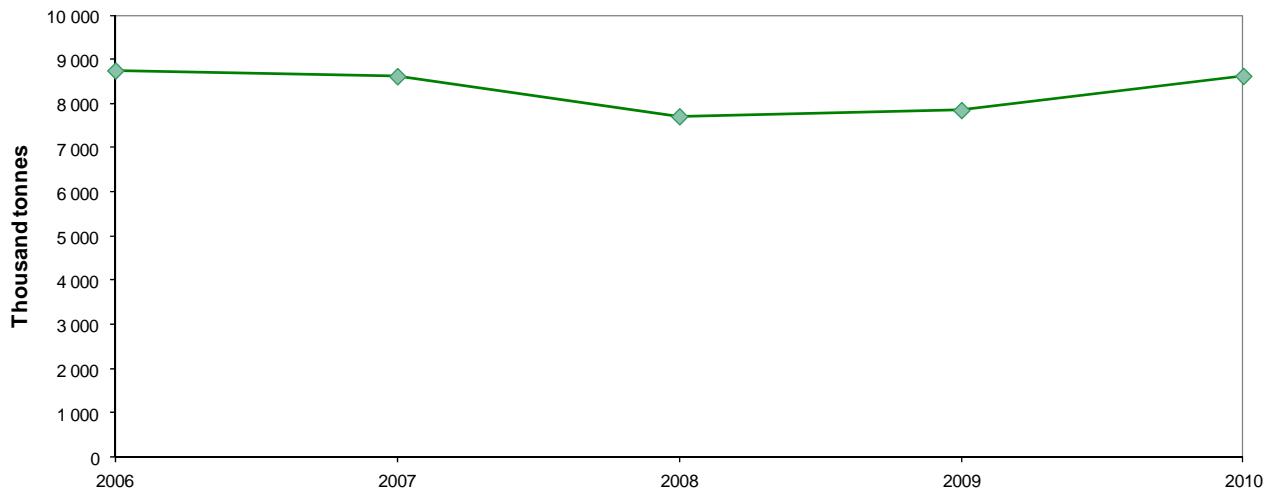
(b) Sales

(c) Washed and dried

(d) Washed

Kaolin

EU34 Production of kaolin 2006 - 10



Exports of kaolin

Country	2006	2007	2008	2009	2010
Austria	3 649	2 292	2 445	8 954	27 908
Belgium	628 479	611 902	1 030 076	783 512	523 697
Bulgaria	149 559	160 372	139 069	119 736	159 669
Czech Republic	261 019	173 251	233 819	174 814	485 203
Denmark	443	351	486	352	607
Finland	8 373	10 597	8 587	13 832	18 176
France	968 538	412 284	319 301	268 674	272 778
Germany	463 804	507 867	498 165	374 313	389 927
Greece	472	276	384	225	206
Hungary	3 781	3 762	3 110	2 847	2 436
Italy	17 287	16 265	13 627	21 392	36 208
Luxembourg	38	160	268	414	22
Netherlands	431 027	416 108	72 264	33 563	33 923
Poland	7 177	10 401	8 936	11 515	9 781
Portugal	46 494	70 580	47 562	51 014	31 390
Slovakia	10 946	12 546	593	1 425	4 493
Spain	213 955	199 541	155 563	156 915	167 811
Sweden	15 735	18 229	30 495	31 122	23 103
Switzerland	433	786	128	203	287
Turkey	192 298	132 834	130 923	61 828	137 963
United Kingdom	2 629 173	2 499 011	1 955 020	1 393 939	1 722 335

Imports of kaolin

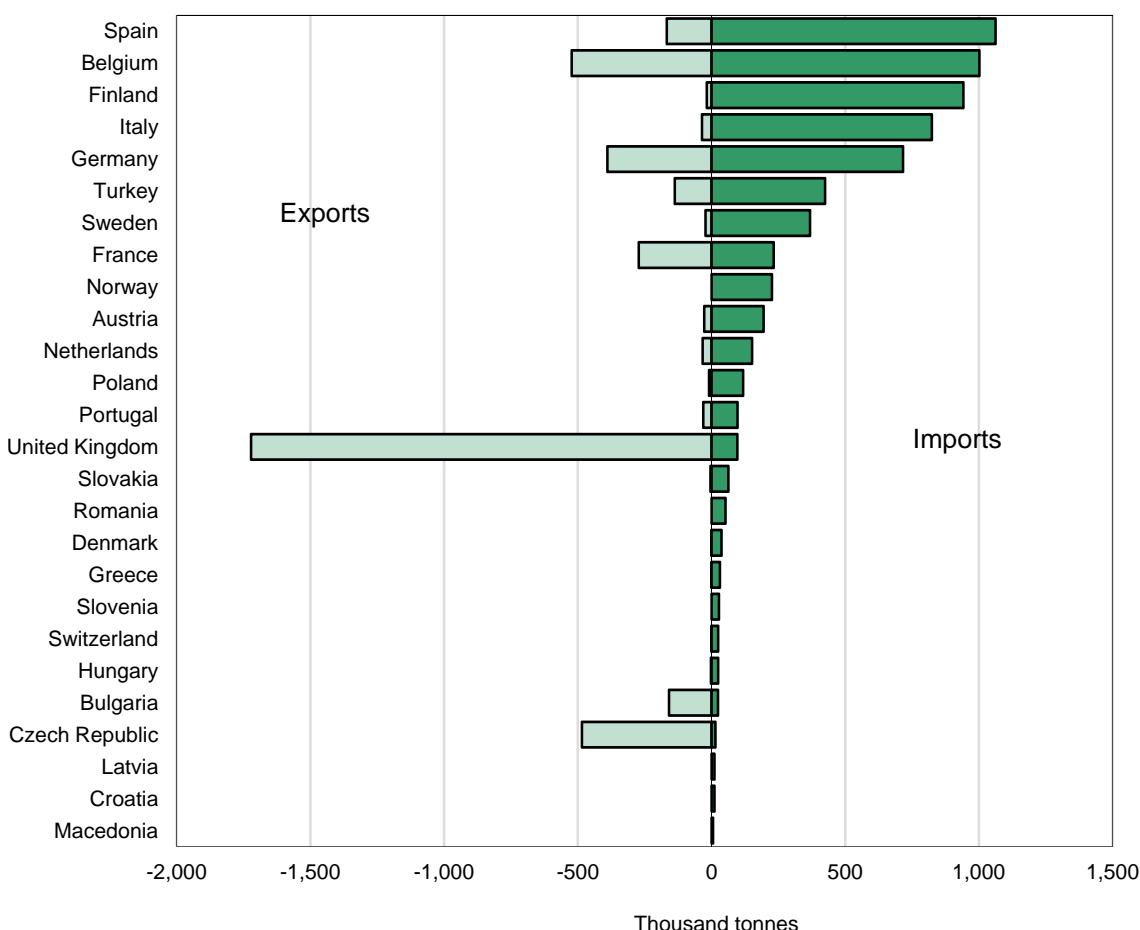
Country	2006	2007	2008	2009	2010
Austria	222 007	218 813	226 682	192 860	194 396
Belgium	868 255	853 701	1 465 754	905 784	1 001 057
Bulgaria	91 831	29 717	28 748	20 623	23 784
Croatia	16 423	21 845	24 009	14 486	10 238
Czech Republic	22 962	23 461	20 662	13 228	14 125
Denmark	19 572	35 288	47 525	37 738	37 007
Estonia	1 090	3 214	3 902	1 588	881
Finland	1 261 699	1 155 041	1 147 687	708 210	941 387
France	320 425	311 060	263 449	200 203	231 779
Germany	809 329	717 102	647 278	585 675	715 770
Greece	68 083	40 298	62 415	49 509	31 132
Hungary	25 282	25 168	29 089	25 094	24 175

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Ireland, Republic of	19 647	19 322	18 766	3 155	4 039
Italy	978 378	881 968	810 560	505 593	823 461
Latvia	5 422	11 071	11 173	7 476	10 594
Lithuania	1 399	568	607	159	486
Luxembourg	9 178	9 013	10 951	6 316	904
Macedonia	9 797	16 849	12 259	4 879	4 985
Netherlands	627 768	612 720	352 122	68 072	150 929
Norway	241 976	208 709	253 361	190 562	225 576
Poland	94 257	122 245	126 426	90 183	117 914
Portugal	137 656	154 891	114 041	73 081	96 851
Romania	54 862	51 347	48 422	40 326	51 754
Slovakia	100 551	87 956	95 911	58 509	62 748
Slovenia	24 389	28 363	25 682	20 776	27 287
Spain	1 506 142	1 571 143	1 470 440	757 859	1 061 732
Sweden	451 919	448 129	468 491	408 564	367 948
Switzerland	41 481	45 629	39 932	33 555	24 249
Turkey	190 924	163 015	402 812	301 086	424 152
United Kingdom	99 262	73 014	79 546	77 504	95 865

Kaolin - EU34 trade in 2010

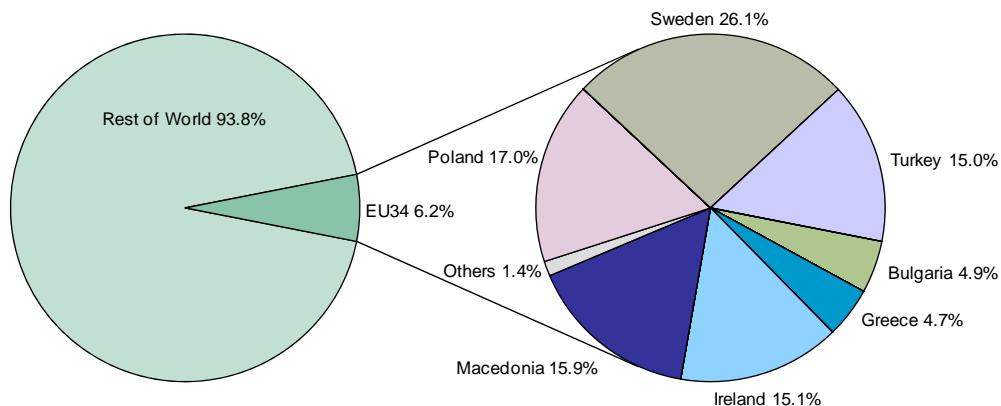


Lead

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 2010 (with 44 per cent of the total) and refiner of lead (with 43 per cent of the total). In the EU34 the largest mine producer of lead was Sweden (26 per cent of the EU34 total), followed by Poland (17 per cent), and Macedonia (16 per cent). The largest producers of refined lead, based on imported materials and recycling, were Germany (25 per cent of EU 34 total) and the UK (19 per cent). It is estimated that worldwide more than 50 per cent of refined lead produced is from recycled material.

EU34 Mine production of lead 2010



Mine production of lead

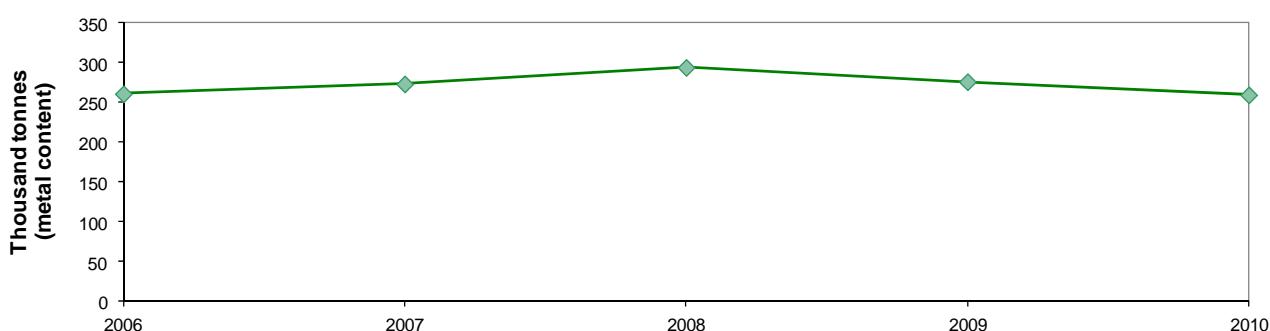
tonnes (metal content)

Country	2006	2007	2008	2009	2010
Bulgaria (a)	19 571	17 768	14 577	12 981	12 705
Greece	11 400	13 400	14 000	10 000	12 200
Ireland, Republic of	61 800	56 800	50 200	* 49 500	39 100
Italy	6 000	3 000	3 000	2 000	3 000
Macedonia	11 531	36 039	49 877	46 788	41 300
Poland	77 450	61 330	67 070	62 910	44 200
Romania	6 269	784	—	—	—
Spain	—	—	—	1 000	300
Sweden	55 644	63 224	63 489	69 293	67 697
Turkey	11 000	20 800	31 800	21 600	39 000
United Kingdom	* 400	* 300	* 300	243	251
EU34 Total	261 100	273 400	294 300	276 300	259 800

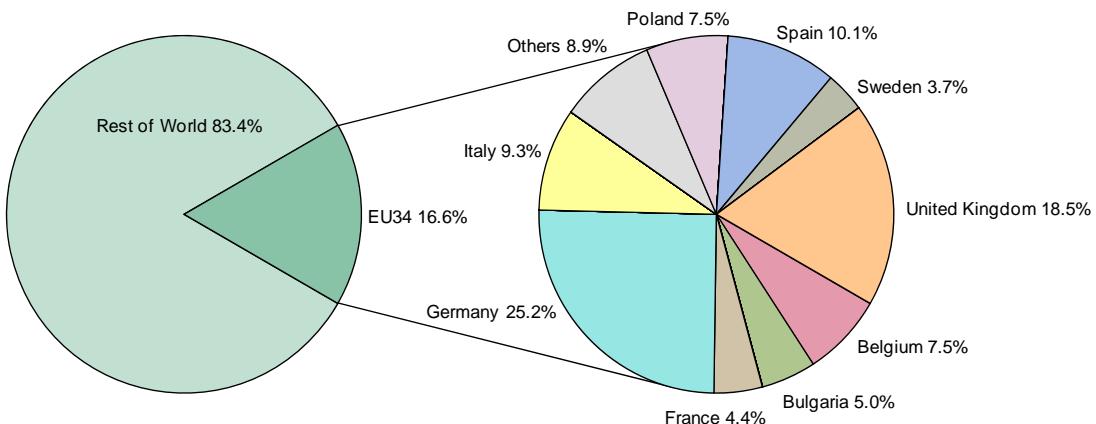
Note(s)

(a) Metal content of ore

EU34 Mine production of lead 2006 - 10



EU34 Production of refined lead 2010



Production of refined lead

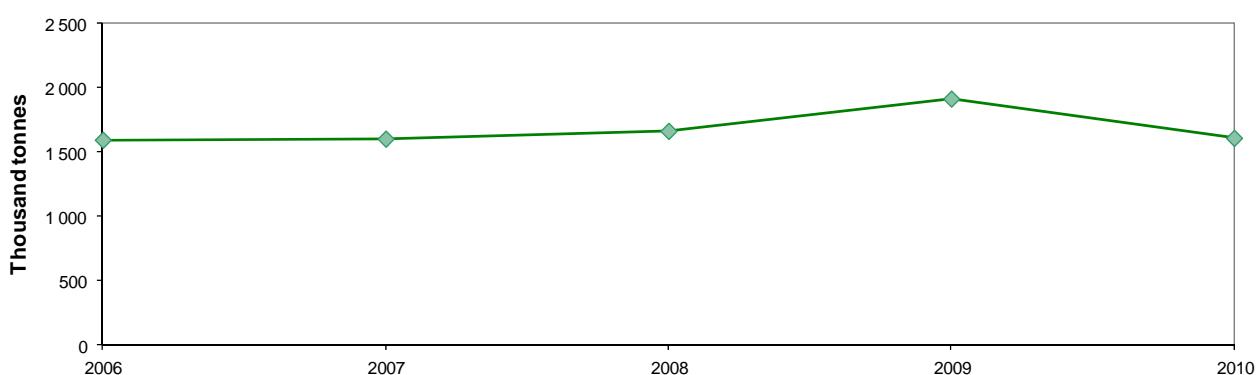
tonnes

Country	2006	2007	2008	2009	2010
Austria	* 22 000	* 22 000	* 22 000	* 22 000	* 22 000
Belgium	101 000	117 000	104 000	109 000	121 000
Bulgaria	76 000	87 000	90 900	83 100	80 600
Czech Republic	29 000	34 000	36 000	29 000	30 000
Estonia	9 000	10 000	10 000	10 000	* 10 000
France	88 000	* 88 000	82 100	62 000	71 000
Germany	379 000	355 000	415 100	781 200	405 400
Greece	6 000	11 000	11 000	* 11 000	* 11 000
Ireland, Republic of	21 700	22 500	20 000	19 000	19 000
Italy	190 500	211 800	199 900	149 000	150 000
Netherlands	* 16 000	* 16 000	* 16 000	* 17 000	* 16 000
Poland	82 200	104 200	108 300	100 400	120 300
Portugal	3 000	5 000	5 000	4 000	4 000
Romania	34 133	39 369	39 596	8 687	11 263
Slovenia	15 000	15 000	15 000	14 000	14 000
Spain	129 000	128 000	145 000	138 000	163 000
Sweden	70 239	69 730	56 812	51 574	59 179
Switzerland	* 9 000	* 9 000	* 8 000	800	—
Turkey	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
United Kingdom	318 703	263 391	283 000	301 865	297 453
EU34 Total	1 605 000	1 614 000	1 674 000	1 918 000	1 611 200

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

EU34 Production of refined lead 2006 - 10



Lead

Exports of lead

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Unwrought	13 129	13 629	13 844	12 512	16 427
Scrap	1 027	1 018	600	2 173	871
Belgium					
Ores & concentrates	113 576	96 059	114 105	148 562	101 160
Unwrought	98 077	111 338	95 878	108 442	145 571
Scrap	15 071	19 974	18 336	21 962	21 479
Bulgaria					
Ores & concentrates	10 900	23 417	9 555	4 188	4 611
Unwrought	65 400	66 384	80 972	77 713	78 977
Croatia					
Scrap	1 057	3 590	1 872	1 025	1 697
Czech Republic					
Unwrought	10 359	16 707	18 713	23 617	32 743
Scrap	6 648	6 855	8 136	4 832	1 914
Denmark					
Unwrought	1 071	721	78	615	896
Scrap	2 954	1 685	1 159	4 057	3 485
Estonia					
Unwrought	6 054	10 091	10 473	8 861	10 624
Finland					
Scrap	2 421	605	588	357	340
France					
Unwrought	25 933	14 936	17 630	14 554	36 293
Scrap	21 854	29 544	15 888	20 815	37 654
Germany					
Ores & concentrates	475	467	—	1 000	4 296
Unwrought	126 790	136 609	177 129	204 075	203 077
Scrap	8 390	17 799	13 133	13 100	9 892
Greece					
Unwrought	3 292	9 913	5 792	2 360	5 209
Scrap	1 256	769	1 390	913	1 945
Hungary					
Scrap	3 286	2 369	4 052	4 001	1 898
Ireland, Republic of					
Ores & concentrates	129 748	108 645	91 728	109 877	62 729
Italy					
Unwrought	8 143	8 008	34 904	23 006	7 821
Scrap	3 806	7 661	6 897	7 594	9 776
Lithuania					
Scrap	6 118	11 776	9 730	4 210	5 941
Macedonia					
Ores & concentrates	16 371	47 209	...	60 702	55 482
Unwrought	—	70	184	1 271	801
Scrap	2 511	2 622	2 209	226	226
Netherlands					
Ores & concentrates	27 068	2 897	55 980	74 725	63 921
Unwrought	11 133	14 824	7 725	11 061	12 971
Scrap	16 067	21 822	12 278	13 807	35 168
Norway					
Scrap	892	974	695	504	1 800
Poland					
Ores & concentrates	73 902	70 970	69 852	59 790	35 459
Unwrought	68 635	34 455	40 017	48 599	43 945
Scrap	2 168	3 120	1 110	1 525	1 668
Portugal					
Unwrought	2 018	3 092	4 950	6 647	8 785
Scrap	9 471	9 961	3 105	2 222	1 710
Romania					
Ores & concentrates	18 104	10 501	17 396	15 759	9 096
Unwrought	18 786	23 289	22 752	9 049	10 573
Scrap	4 389	4 659	2 997	2 526	5 659
Slovenia					
Unwrought	6 524	8 860	6 960	6 891	8 090
Scrap	843	1 415	391	325	566

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Spain					
Ores & concentrates	29	130	1 015	14 147	9 513
Unwrought	7 830	9 242	14 771	13 434	6 630
Scrap	6 460	7 023	6 616	3 862	6 781
Sweden					
Ores & concentrates	50 854	56 581	61 439	72 220	111 153
Unwrought	76 777	65 733	53 715	46 795	55 501
Scrap	703	734	816	1 044	1 445
Switzerland					
Unwrought	7 966	7 383	7 387	1 765	230
Scrap	3 124	4 860	3 236	4 748	5 497
Turkey					
Ores & concentrates (a)	18 415	34 715	52 988	35 973	64 247
Unwrought	4 271	930	832	361	400
United Kingdom					
Unwrought	89 271	68 152	79 520	126 743	105 235
Unwrought alloys	48 589	39 246	57 466	54 505	62 406
Scrap	1 859	31 942	47 660	56 055	69 404

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	2006	2007	2008	2009	2010
Austria					
Unwrought	29 184	27 015	27 475	21 580	19 391
Belgium					
Ores & concentrates	120 136	108 164	97 474	192 496	169 356
Unwrought	15 081	36 620	30 413	18 121	14 467
Scrap	41 070	54 915	25 873	34 085	31 992
Bulgaria					
Ores & concentrates	100 736	92 929	119 522	63 185	81 307
Unwrought	11 305	15 854	15 529	10 182	7 283
Scrap	1 346	3 338	5 830	12 145	17 462
Croatia					
Unwrought	1 415	911	680	376	538
Czech Republic					
Unwrought	67 850	66 060	59 318	65 896	81 762
Scrap	4 411	6 519	4 672	4 150	2 901
Denmark					
Unwrought	2 322	1 033	192	107	128
Scrap	2 209	2 228	1 984	2 583	2 890
Finland					
Unwrought	1 571	2 283	3 195	2 346	1 512
France					
Unwrought	121 930	118 384	103 535	42 187	34 090
Scrap	32 705	34 169	22 490	13 579	12 848
Germany					
Ores & concentrates	161 113	211 132	212 602	234 102	184 018
Unwrought	134 805	138 978	118 779	103 642	157 301
Scrap	18 141	30 313	28 231	40 547	39 653
Greece					
Unwrought	5 401	11 792	6 875	10 644	11 149
Scrap	138	2 071	2 800	1 753	1 692
Hungary					
Unwrought	4 063	5 802	2 711	2 663	6 138

Lead

Imports continued

tonnes

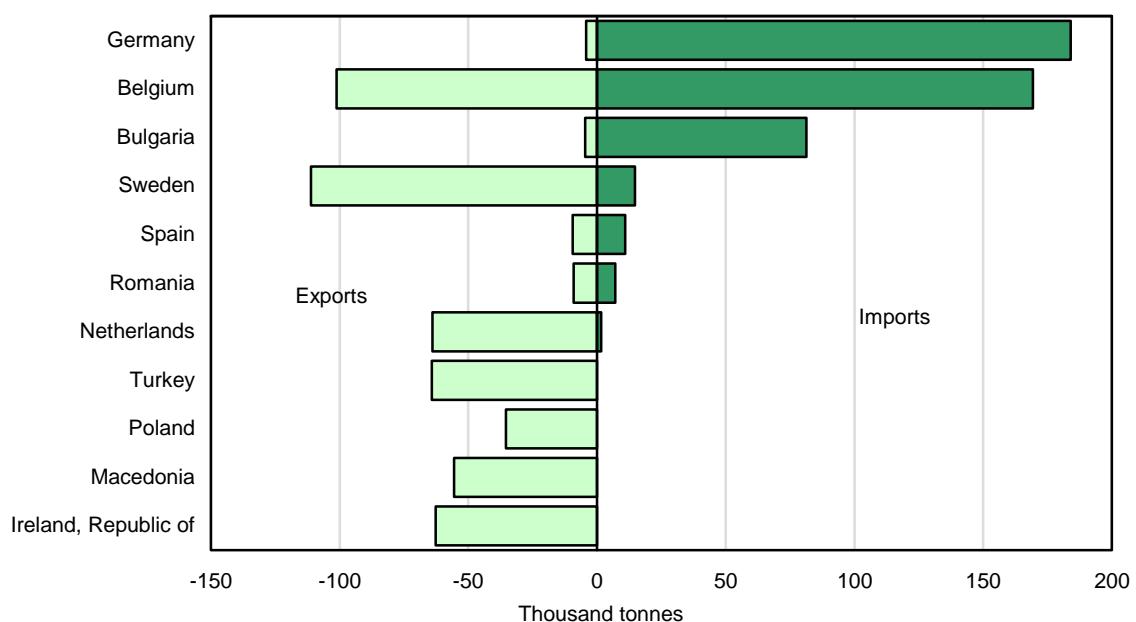
Country	2006	2007	2008	2009	2010
Ireland, Republic of					
Unwrought	28 386	35 675	23 480	15 784	14 357
Scrap	31 794	25 828	17 702	16 689	12 074
Italy					
Ores & concentrates	65 610	111 999	85 760	29 210	20
Unwrought	112 069	114 471	99 015	86 054	111 301
Scrap	4 097	7 107	2 972	2 031	2 609
Lithuania					
Scrap	119	368	162	3 301	4 459
Netherlands					
Ores & concentrates	13 186	22 303	5 307	1 935	1 558
Unwrought	24 272	22 419	9 373	7 195	8 717
Scrap	17 508	22 006	11 325	13 593	21 255
Norway					
Unwrought	4 749	7 055	6 473	5 026	6 449
Poland					
Unwrought	56 504	44 235	35 465	29 861	46 810
Scrap	1 633	1 256	2 467	2 293	7 154
Portugal					
Unwrought	17 523	14 704	12 014	6 642	5 593
Romania					
Ores & concentrates	13 288	17 064	27 055	5 889	7 052
Unwrought	1 400	835	872	9 245	11 834
Slovenia					
Unwrought	8 897	12 761	14 103	13 036	16 025
Scrap	2 946	5 191	1 556	1 985	3 812
Spain					
Ores & concentrates	2 299	8 188	7 107	3 199	10 946
Unwrought	147 423	157 485	116 492	121 522	110 217
Scrap	30 625	42 629	35 506	35 703	43 432
Sweden					
Ores & concentrates	10 476	—	275	—	14 763
Unwrought	17 679	6 554	6 922	5 028	5 340
Scrap	3 101	3 771	2 089	5 176	9 464
Switzerland					
Unwrought	9 185	7 087	9 915	9 446	5 664
Turkey					
Unwrought	56 792	46 966	79 460	73 520	73 057
United Kingdom					
Unwrought, base bullion (a)	120 871	119 726	194 113	130 312	151 653
Unwrought, other	53 892	31 187	39 493	17 277	15 147
Scrap	5 914	17 685	4 621	4 962	8 858

Note(s)

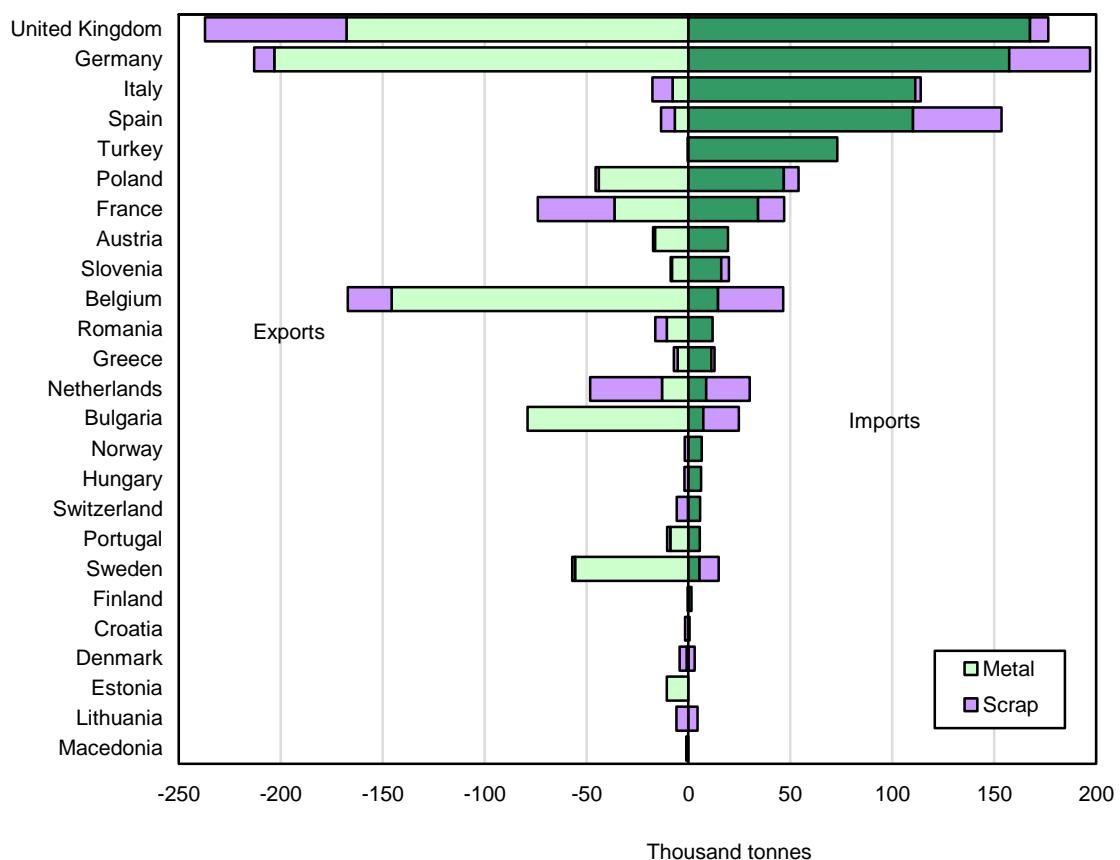
- (1) In this table the term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars, etc.
- (2) The term 'unwrought' as used here includes alloys unless these are separately specified

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

Lead ore - EU34 trade in 2010



Lead - EU34 trade in 2010



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 2010 (approximately 62 per cent of world production of lithium minerals). Chile was the largest producer by lithium content in 2010 (50 per cent of world production); the production here is from brine. In the EU34 Portugal and Spain are the only countries producing lithium minerals.

Production of lithium minerals

tonnes

Country	2006	2007	2008	2009	2010
Portugal					
Lepidolite	28 497	34 755	34 888	37 359	40 609
Spain					
Lepidolite	8 339	10 326	9 342	4 270	* 5 000

Exports of lithium

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Carbonate	54	45	28	10	170
Belgium					
Oxides	1 236	1 370	1 281	781	2 284
Carbonate	5 107	4 915	3 567	3 042	4 539
Germany					
Carbonate	2 907	2 705	2 290	1 880	2 387
Italy					
Carbonate	347	225	193	145	49
Netherlands					
Oxides	154	331	511	205	116
Carbonate	405	318	299	227	160
Slovenia					
Carbonate	96	110	122	128	88
Spain					
Carbonate	554	192	128	228	175
Switzerland					
Oxides	69	75	88	2 041	190
United Kingdom					
Oxides	94	92	232	569	144
	271	158	216	193	123

Imports of lithium

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Carbonate	199	248	333	327	402
Belgium					
Oxides	1 201	1 784	1 851	1 179	2 410
Carbonate	5 357	5 895	4 414	3 410	4 183
Czech Republic					
Carbonate	118	146	64	35	66
Denmark					
Carbonate	164	155	311	402	340
Finland					
Carbonate	85	73	84	41	92
France					
Oxides	369	314	256	362	570
Carbonate	1 186	1 289	1 251	1 172	1 137
Germany					
Oxides	4 260	5 163	5 420	(a)* 3 000	(a)* 1 900
Carbonate	7 948	8 131	7 098	4 433	6 486
Italy					
Oxides	159	160	246	96	175
Carbonate	1 646	1 303	1 519	1 185	1 123
Netherlands					
Oxides	359	428	537	228	290
Carbonate	1 356	1 459	729	316	431
Poland					
Oxides	266	245	61	86	86
Carbonate	252	184	162	137	175
Slovenia					
Oxides	115	144	186	139	95
Spain					
Oxides	573	600	501	521	1 007
Carbonate	828	1 811	3 908	2 825	3 239
Sweden					
Oxides	186	107	146	149	214
Carbonate	215	236	278	191	87
Switzerland					
Oxides	112	142	143	110	118
Turkey					
Oxides	248	245	257	208	268
Carbonate	491	683	617	613	770
United Kingdom					
Oxides	385	614	466	914	218
Carbonate	650	779	536	622	427

Note(s)

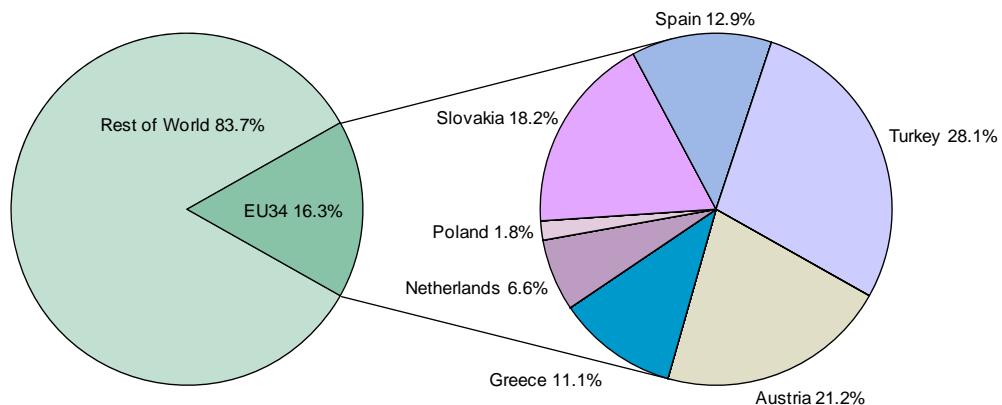
(a) BGS estimates, based on known exports into certain countries

Magnesite

Magnesite is the commonly used name for magnesium carbonate rock. Magnesite has excellent thermal resistance and is most commonly used as refractory bricks in furnaces. It is also used in fertilisers.

Economic deposits of magnesite are rare. China was the largest world producer in 2010, with an estimated 64 per cent of world production. The largest EU34 producer was Turkey with an estimated 28 per cent of EU34 production in 2010, followed by Austria (with 21 per cent).

EU34 Production of magnesite 2010



Production of magnesite

tonnes

Country	2006	2007	2008	2009	2010
Austria	769 188	811 556	837 476	544 716	757 063
Greece	463 277	351 414	361 165	380 834	396 497
Netherlands (a)	293 006	* 245 000	316 264	183 256	236 053
Poland	62 500	65 000	60 000	47 000	63 000
Slovakia	941 100	957 000	806 500	477 600	650 100
Spain	520 646	463 850	* 440 700	* 434 000	* 460 000
Turkey	2 088 033	1 984 908	2 143 047	861 180	* 1 000 000
EU34 Total	5 138 000	4 879 000	4 965 000	2 929 000	3 563 000

Note(s)

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

(a) Chloride produced from solution mining

EU34 Production of magnesite 2006 - 10



Exports of magnesite and magnesia

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Magnesite	1 231	760	602	1 746	989
Magnesia	45 311	57 964	28 779	26 716	39 589
Belgium					
Magnesite	1 520	1 761	1 911	876	1 235
Magnesia	75 011	64 293	81 909	59 644	96 513
Czech Republic	4 099	3 988	4 540	3 728	3 809
Denmark	307	451	461	518	796
France					
Magnesite	241	373	310	576	274
Magnesia	47 832	48 852	57 342	35 523	52 553
Germany					
Magnesite	132	463	22	140	229
Magnesia	93 286	87 264	72 684	58 604	94 198
Greece					
Magnesia	125 783	132 083	126 496	84 399	108 020
Ireland, Republic of					
Magnesite	5 991	5 487	5 006	9 133	3 383
Magnesia	46 656	3 981	9 912	8 595	33 334
Italy					
Magnesite	3 003	3 878	2 337	1 945	2 535
Magnesia	12 174	9 036	8 172	5 873	7 393
Lithuania					
Magnesia	8	26	...	537	717
Luxembourg					
Magnesite	81	197	481	621	943
Netherlands					
Magnesite	4 750	582	494	180	423
Magnesia	465 555	128 060	344 675	160 337	139 516
Poland	654	2 632	1 921	734	1 087
Romania					
Magnesia	277	351	440	381	460
Slovakia					
Magnesite (a)	* 3 000	* 6 000	* 9 300	* 7 400	* 8 400
Magnesia	394 826	444 539	409 295	261 876	336 786
Slovenia					
Magnesia	206	257	421	344	334
Spain					
Magnesite	19 635	607	725	2 167	410
Magnesia	179 046	185 364	175 307	156 027	224 590
Sweden					
Magnesia	2 277	1 593	235	380	303
Turkey					
Magnesite	28 937	40 414	68 054	35 097	24 213
Magnesia	205 989	181 870	175 441	162 651	209 633
United Kingdom					
Magnesite	26	51	316	518	470
Magnesia	19 036	16 371	13 647	9 662	14 497

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	2006	2007	2008	2009	2010
Austria					
Magnesite	1 653	933	2 319	937	848
Magnesia	213 760	317 952	248 037	21 708	272 232
Belgium					
Magnesite	3 872	3 148	2 357	1 412	3 820
Magnesia	152 330	101 887	141 185	104 577	80 845
Bulgaria	6 551	4 670	6 296	3 180	5 678
Croatia	1 564	1 872	1 682	1 289	1 208
Czech Republic					
Magnesite	5 320	6 527	4 193	3 460	7 108
Magnesia	51 674	52 330	54 246	38 048	38 862
Denmark					
Magnesite	444	512	456	2 680	2 728
Magnesia	4 478	3 327	4 149	5 472	4 636
Finland					
Magnesia	9 540	15 989	8 692	6 439	7 387
France					
Magnesite	2 509	2 355	2 378	1 209	784
Magnesia	161 029	163 908	164 235	117 821	126 821
Germany					
Magnesite	13 794	17 029	8 420	6 731	12 751
Magnesia	519 576	568 508	562 618	276 674	473 545
Greece					
Magnesite	15 645	12 611	44 397	19 803	3 603
Magnesia	22 763	20 682	7 328	1 729	2 198
Hungary					
Magnesite	125	442	1 751	1 081	1 331
Magnesia	5 310	9 318	7 892	1 563	6 783
Ireland, Republic of					
Magnesite	1 967	5 971	4 385	4 191	5 535
Magnesia	35 800	48 088	42 999	22 523	39 638
Italy					
Magnesite	10 862	10 240	18 347	9 375	21 454
Magnesia	174 000	131 140	150 098	93 262	143 725
Latvia					
Magnesia	4 092	4 678	5 355	2 827	5 524
Lithuania					
Magnesia	5 513	6 501	5 196	855	1 245
Luxembourg	971	1 373	1 663	2 202	2 612
Macedonia	5 047	18 863	13 956	10 113	11 266
Netherlands					
Magnesite	3 007	1 390	3 609	3 259	459
Magnesia	454 271	437 684	314 860	80 478	345 154
Norway					
Magnesite	4 265	126	69	17	4
Magnesia	1 784	4 298	5 989	4 904	10 987
Poland					
Magnesite	288	1 536	216	2 658	3 966
Magnesia	103 092	109 810	109 646	81 304	113 757
Portugal					
Magnesite	1 269	924	1 521	697	1 162
Magnesia	6 544	7 119	5 863	8 538	4 504
Romania					
Magnesite	516	187	139	1	264
Magnesia	27 447	19 666	13 003	7 427	10 389
Slovakia					
Magnesite	3 947	3 520	3 401	2 906	3 916
Magnesia	27 280	36 768	40 675	12 731	28 639
Slovenia					
Magnesia	8 478	8 117	8 272	4 346	7 279
Spain					
Magnesite	3 937	4 092	2 839	10 029	3 926
Magnesia	88 898	117 867	143 849	42 980	94 840
Sweden					
Magnesia	24 610	17 556	14 701	15 832	12 004

Magnesite and Magnesia

Imports continued

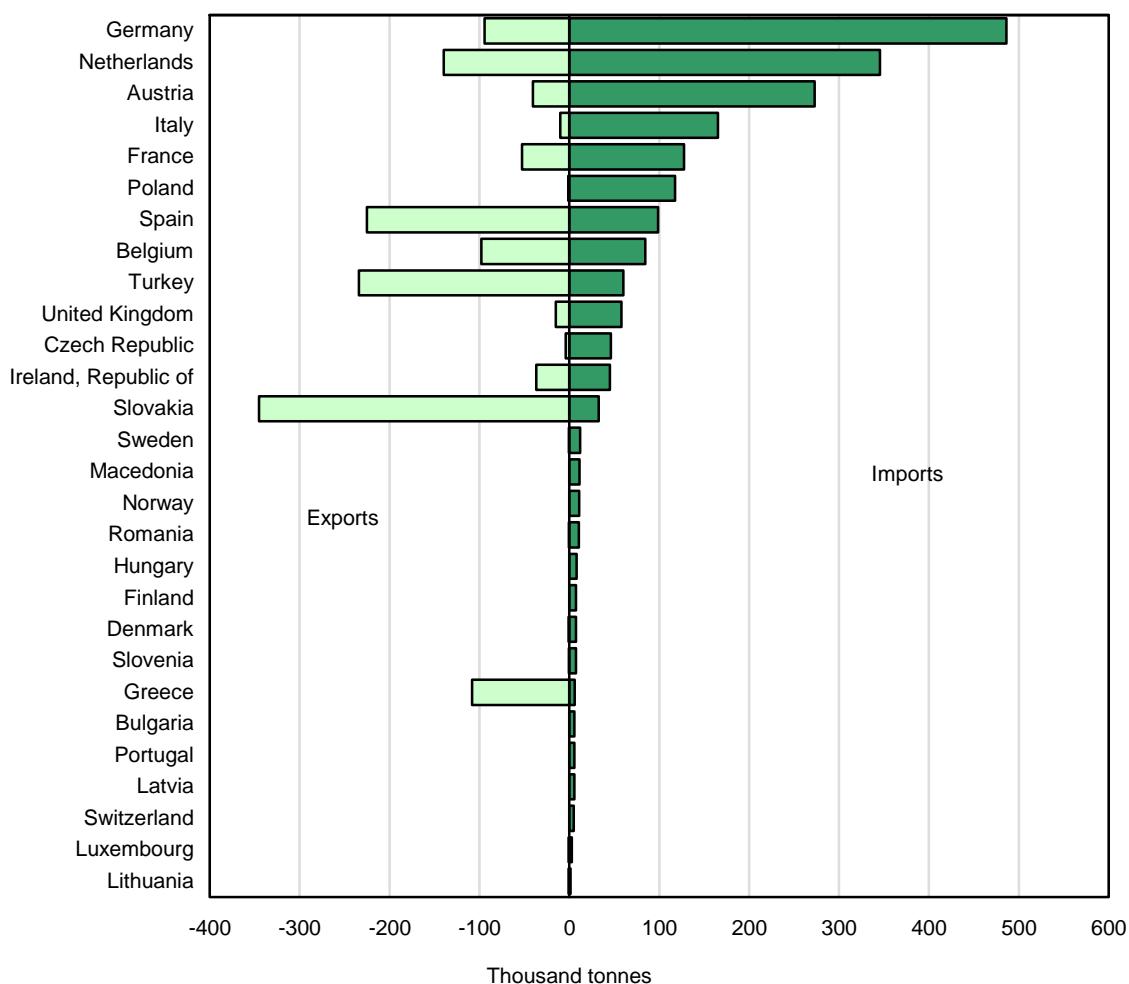
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Country	2006	2007	2008	2009	2010
Switzerland					
Magnesite	394	1 024	69	502	362
Magnesia	7 506	7 144	7 772	4 762	4 625
Turkey					
Magnesia	29 148	43 360	61 519	40 595	60 121
United Kingdom					
Magnesite	10 644	10 194	7 016	3 567	8 640
Magnesia	64 896	57 905	59 300	43 873	49 076

Note(s)

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

Magnesite and magnesia - EU34 trade in 2010



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.

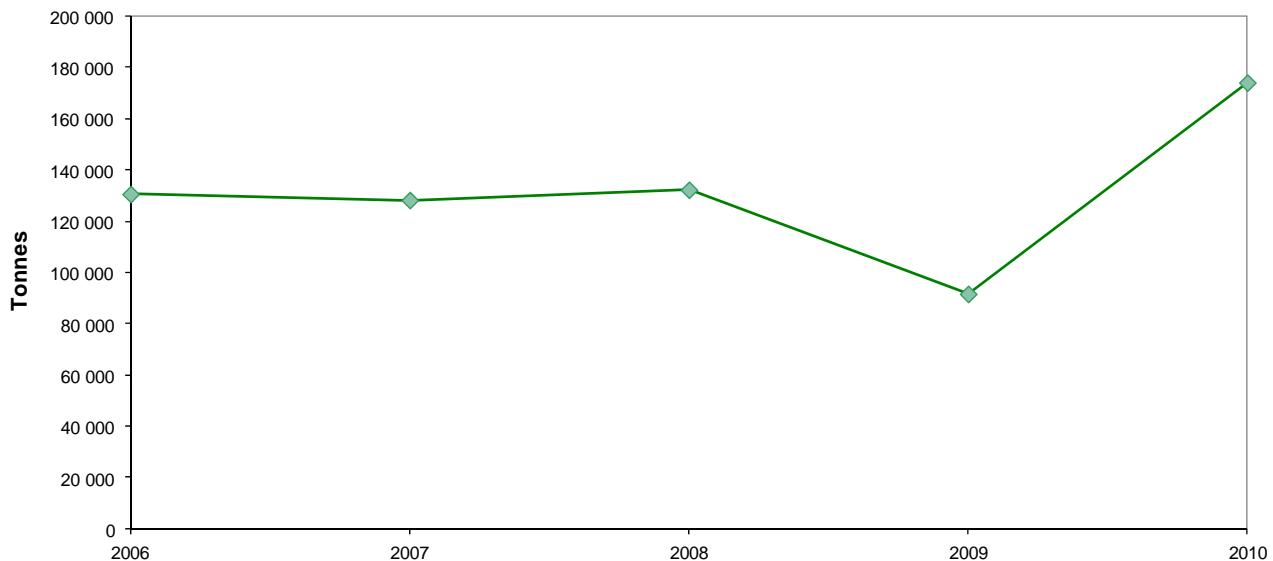
Economic concentrations of manganese are relatively rare. China was the largest producer in 2010 with an estimated 33 per cent of world production. Production of manganese in the EU34 is limited, with Bulgaria (61 per cent of EU34 production) the largest producer. Manganese ore, ferro-manganese, electrolytic manganese dioxide and manganese metal are the chief forms in international trade.

Production of manganese ore

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	20 500	27 900	39 100	28 300	106 000
Hungary	50 000	51 000	49 579	43 000	55 000
Romania	60 107	49 350	43 590	20 304	13 120
EU34 Total	131 000	128 000	132 000	92 000	174 000

EU34 Production of manganese ore 2006 - 10



Exports of manganese

tonnes

Country	2006	2007	2008	2009	2010
Belgium					
Ores & concentrates	5 138	15 819	8 578	5 192	4 444
Metal	7 045	4 060	1 947	714	1 185
Bulgaria					
Ores & concentrates	25 595	19 335	17 369	29 715	163 257
Estonia					
Metal	222	464	226	137	5
Finland					
Metal	0	31	98	341	32
France					
Ores & concentrates (a)	303 881	333 747	321 638	138 787	152 425
Metal	415	327	488	631	717
Germany					
Ores & concentrates	3 046	5 761	3 321	3 710	4 480
Metal	19 757	15 414	12 921	6 727	8 243
Italy					
Metal	298	309	494	326	716
Macedonia					
Ores & concentrates	5 117	...	6 314	...	...
Netherlands					
Ores & concentrates	33 386	8 223	19 103	28 701	21 806
Metal	16 739	19 767	19 144	15 642	38 159
Norway					
Ores & concentrates	7 880	56 939	10 266	9 214	10 709
Metal	203	2 373	1 363	59	112
Poland					
Metal	52	460	35	603	2 875
Romania					
Metal	1	3 024	6 666	—	—
Spain					
Ores & concentrates	1 336	1 299	518	21 456	707
Metal	5 827	5 783	4 562	3 386	1 297
Turkey					
Ores & concentrates	2 466	13 007	81 280	59 183	51 731
Metal	4	20	401	81	4 952
United Kingdom					
Metal (b)	* 2 000	* 2 100	* 3 100	* 1 800	* 2 000

Note(s)

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

(a) Including manganiferous iron ore

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

Imports of manganese

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Ores & concentrates	368	383	215	184	152
Metal	12 059	17 543	14 275	11 512	16 696
Belgium					
Ores & concentrates	65 462	79 022	83 909	61 980	49 731
Metal	10 113	6 403	4 423	3 076	4 377
Bulgaria					
Ores & concentrates	17 367	27 602	—	20	5
Metal	48	48	50	69	216
Croatia					
Metal	89	586	64	53	23
Czech Republic					
Ores & concentrates	14 335	16 079	15 715	16 063	25 758
Metal	674	757	2 542	2 219	984
Denmark					
Ores & concentrates	788	775	698	1 158	257
Metal	161	317	233	136	183
Estonia					
Metal	909	836	478	168	576
Finland					
Ores & concentrates	10 433	27 251	24 926	12 224	21 961
Metal	2 182	2 379	2 649	912	2 134
France					
Ores & concentrates (a)	611 043	678 369	876 961	193 684	721 272
Metal	11 131	15 198	19 115	8 905	17 586
Germany					
Ores & concentrates (a)	11 327	15 997	14 916	14 645	17 346
Metal	45 937	42 368	47 581	33 989	43 346
Greece					
Ores & concentrates	46 164	—	51 425	31 776	22 888
Metal	730	291	271	162	292
Hungary					
Ores & concentrates	20	254	293	220	198
Metal	1 180	332	1 185	280	336
Ireland, Republic of					
Ores & concentrates (a)	368	286	75	65	54
Metal	15	118	7	6	2
Italy					
Ores & concentrates (a)	72 465	113 300	114 289	77 075	55 284
Metal	35 391	7 100	5 839	3 709	5 788
Macedonia					
Ores & concentrates	44 040	143 556	170 455	...	56 893
Netherlands					
Ores & concentrates	22 495	11 749	10 664	9 398	23 045
Metal	22 162	31 236	35 573	19 083	50 866
Norway					
Ores & concentrates	849 729	1 083 361	1 232 799	525 674	1 121 716
Metal	3 531	2 953	2 595	1 297	1 974
Poland					
Ores & concentrates	6 017	32 984	54 087	1 930	4 345
Metal	1 155	1 167	716	507	1 514
Portugal					
Ores & concentrates	63	51	765	13	68
Romania					
Ores & concentrates	3 134	79	16 432	16	87 880
Metal	1 000	3 030	646	527	220
Slovakia					
Ores & concentrates	308 417	253 048	211 653	74 712	146 434
Metal	445	313	350	395	442
Slovenia					
Ores & concentrates	4	187	10	9	9
Metal	435	388	438	264	433
Spain					
Ores & concentrates	393 476	349 131	640 677	54 606	407 450
Metal	9 165	9 563	10 033	3 994	7 510

Imports continued

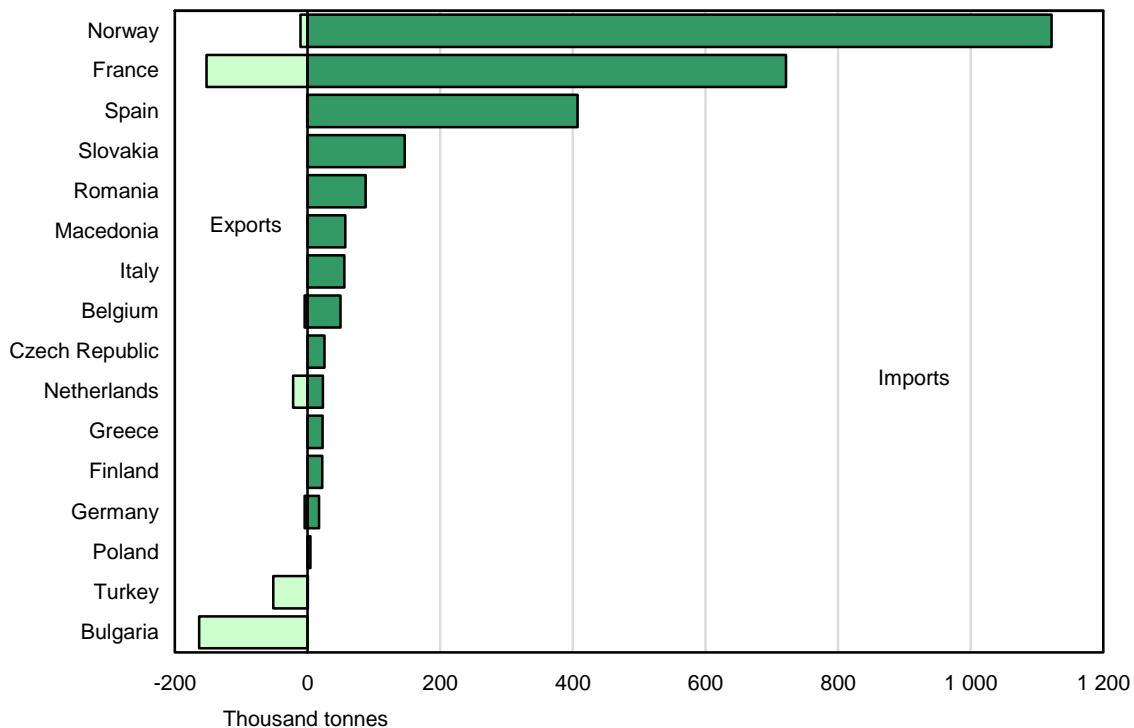
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Country	2006	2007	2008	2009	2010
Sweden					
Ores & concentrates	72	130	388	854	522
Metal	2 380	3 012	3 287	1 880	3 815
Switzerland					
Ores & concentrates	453	415	472	340	214
Metal	444	778	472	282	556
Turkey					
Ores & concentrates	383	428	2 531	540	694
Metal	509	719	874	583	980
United Kingdom					
Ores & concentrates (a)	8 458	1 569	4 133	941	1 517
Metal	8 563	7 021	8 773	4 123	6 619

Note(s)

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

(a) Including manganeseiferous iron ore

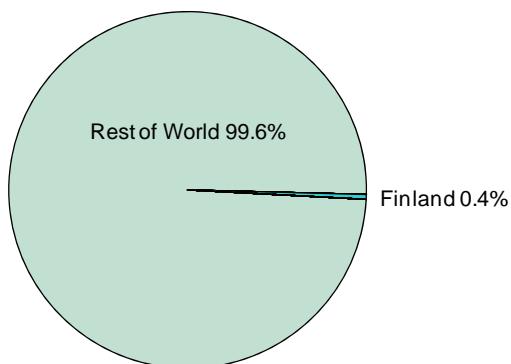
Manganese ores and concentrates - EU34 trade in 2010

Mercury

Mercury is the only metallic element that is liquid at room temperature. The chief economic sources are deposits of the mineral cinnabar but mercury is also recovered from base metal refining. Mercury's main uses are in electrical switches and other control apparatus, and in dental amalgam. Large amounts remain in use in chlor-alkali plants and in batteries but these applications are being phased out.

Only ten countries commercially extracted mercury in 2010. China and Kyrgyzstan are the world's two largest producers and are together responsible for 87 per cent of total world output. Finland is the only producer in the EU34 countries but its output represents less than one per cent of the world total.

EU34 Production of mercury 2010



Production of mercury

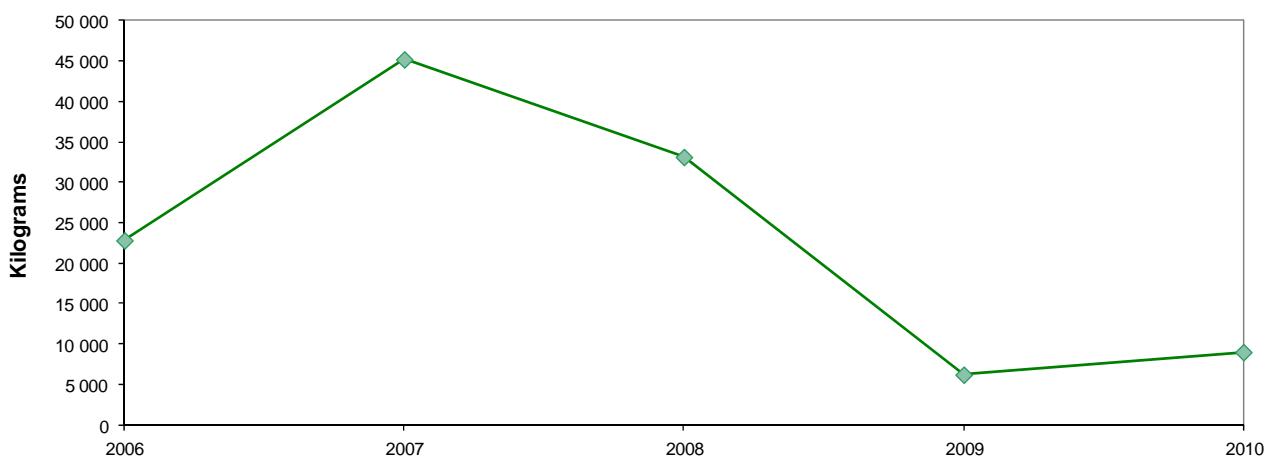
kilograms

Country	2006	2007	2008	2009	2010
Finland	22 820	45 195	33 120	6 210	9 000

Note(s)

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

EU34 Production of mercury 2006 - 10



Exports of mercury

kilograms

Country	2006	2007	2008	2009	2010
Austria	214	5 000	200	2 000	(a)* 3 300
Belgium	42 300	3 300	110 800	1 400	11 500
Czech Republic	1 700	3 600	6 300	6 400	1 100
Finland	24 859	45 600	35 000	6 211	9 321
France	27 300	9 100	1 700	718	1 595
Germany	40 000	42 300	111 100	120 587	110 405
Italy	14 820	125 946	84 247	89 228	202 273
Netherlands	176 670	196 039	192 605	419 480	195 272
Poland	33 900	61 600	17 700	46 200	106 100
Spain	463 954	779 110	639 203	376 885	964 922
Switzerland	87 136	140 336	11 592	25 372	8 529
United Kingdom	78 514	4 311	6 369	178 571	9 321

Note(s)

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

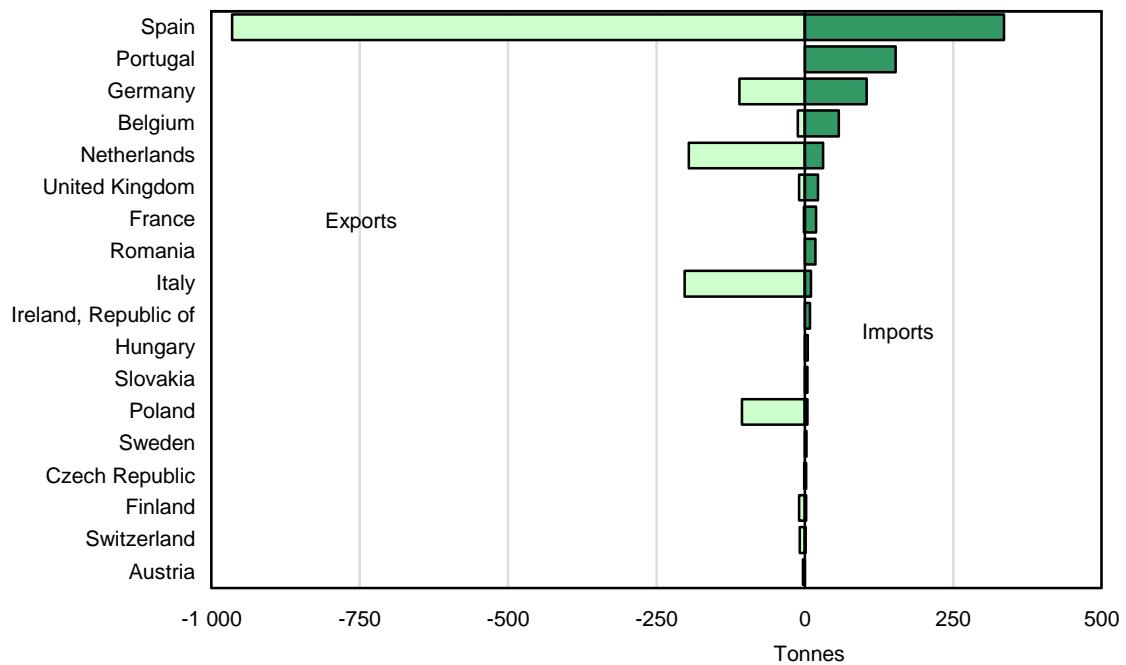
Imports of mercury

kilograms

Country	2006	2007	2008	2009	2010
Austria	2 662	5 322	587	360	383
Belgium	44 809	7 800	133 100	15 700	57 200
Czech Republic	4 000	3 200	3 700	4 400	2 400
Finland	38	200	209	2 136	2 203
France	138 100	190 000	105 300	222 224	19 073
Germany	70 600	84 100	19 700	28 678	104 241
Greece	933	338	2 628	668	211
Hungary	3 529	3 300	4 293	4 800	5 000
Ireland, Republic of	11 804	1 019	979	1 182	8 582
Italy	49 335	9 491	21 754	19 992	10 510
Netherlands	888 164	674 888	293 481	* 101 000	30 636
Poland	9 200	15 700	13 300	10 900	4 300
Portugal	—	—	7 500	25 100	152 900
Romania	49 623	80 054	2 325	415	18 149
Slovakia	3 100	3 400	5 200	4 500	4 700
Spain	628 737	906 297	337 117	467 614	335 852
Sweden	6 000	10 600	13 800	21 300	2 700
Switzerland	5 333	6 687	3 557	801	1 370
Turkey	2 052	9	3 069	1 635	719
United Kingdom	2 128	2 668	2 387	1 121	22 065

Mercury

Mercury - EU34 trade in 2010

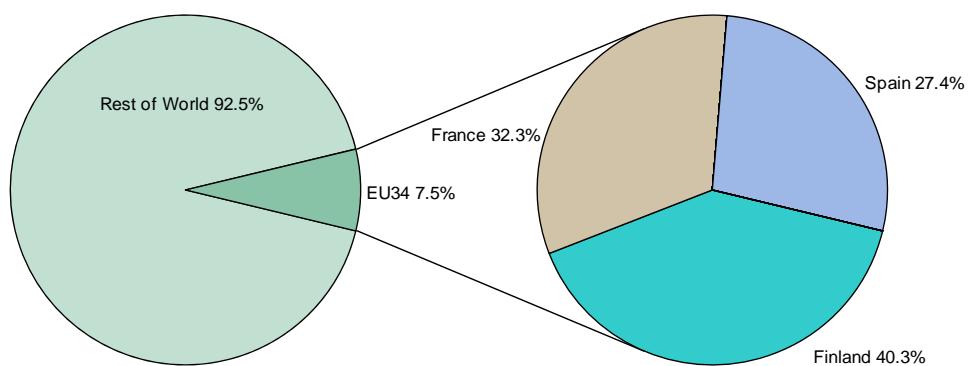


Mica

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 2010 with 38 per cent of the world total. Mica is produced in four EU34 countries, of which the largest producer is Finland (40 per cent of EU34 total). Altogether, output from the EU34 countries represent 7.5 per cent of the world total.

EU34 Production of mica 2010



Production of mica

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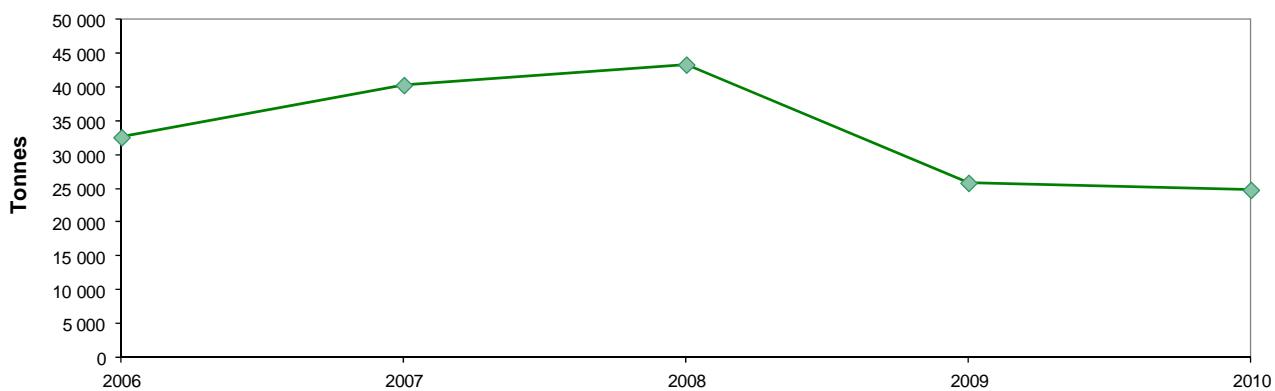
Country	2006	2007	2008	2009	2010
Finland	8 097	11 449	10 706	* 10 000	* 10 000
France (a)	* 20 000	* 20 000	* 20 000	8 000	8 000
Spain (a)	4 496	5 569	4 254	* 3 655	* 6 800
Turkey	—	3 313	8 392	4 172	...
EU34 Total	33 000	40 000	43 000	26 000	25 000

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

EU34 Production of mica 2006 - 10



Mica

Exports of mica

tonnes

Country	2006	2007	2008	2009	2010
Austria	4 102	4 234	4 274	3 328	4 303
Belgium	3 225	3 226	2 127	1 562	1 590
Finland					
Ground	6 603	8 956	7 138	6 125	11 377
France					
Ground	12 794	13 490	13 881	10 758	11 892
Waste	20	422	...	...	1
Germany	4 039	4 957	4 713	2 888	4 197
Greece	9 613	3	59	59	25
Italy	1 159	1 429	3 211	857	697
Netherlands	2 735	6 842	1 341	3 214	1 687
Norway	2 157	2 168	2 640	1 835	2 078
Spain					
Unmanufactured	3 994	2 473	1 259	563	1 339
Ground	462	1 089	1 368	1 521	2 269
United Kingdom	4 593	3 820	4 749	3 944	4 137

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	2006	2007	2008	2009	2010
Austria	615	722	857	492	874
Belgium					
Unmanufactured	470	417	2 155	3 454	2 636
Ground	2 646	3 461	5 409	3 507	4 086
Waste	...	4 364	2 067	45	8
Czech Republic	1 629	2 262	1 958	981	2 513
Denmark	1 596	366	276	242	237
Finland	2 874	4 098	4 383	1 988	3 647
France					
Unmanufactured	657	197	1 144	370	255
Ground	2 017	2 335	2 031	1 844	1 861
Germany					
Unmanufactured	12	16	386	221	1 330
Ground	33 101	36 345	33 175	25 682	29 716
Waste	980	782	966	316	428
Greece	111	123	218	317	169
Ireland, Republic of	650	508	291	43	77
Italy					
Unmanufactured	158	189	106	417	136
Ground	3 657	4 803	3 980	2 597	3 854
Lithuania	122	53	92	43	42
Luxembourg	780	787	41	0	1
Malta	61	39	48	196	57
Netherlands					
Unmanufactured	176	400	751	523	191
Ground	7 251	9 933	2 618	3 490	21 756
Norway					
Unmanufactured	648	912	1 174	1 021	1 224
Ground	373	337	1 243	1 140	1 179
Waste	120	18	9	...	...
Poland	918	1 118	880	1 134	1 150
Portugal	630	284	125	139	284
Romania	912	478	488	441	785
Spain	1 484	1 871	952	1 467	1 183
Sweden	515	584	755	721	673
Switzerland	1 151	3 021	1 088	669	1 226
Turkey	413	293	385	477	317

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
United Kingdom					
Unmanufactured	251	289	377	328	43
Ground	5 856	6 705	7 061	6 396	7 341
Waste	3 474	3 433	2 030	49	902

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'

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 2010 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 EU34 countries.

Exports of molybdenum

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal (a)	* 3 000	* 3 500	* 3 000	* 1 800	* 2 300
Belgium					
Ores & concentrates	24 320	22 340	11 314	15 581	24 396
Metal	194	556	243	105	371
Oxides	905	829	379	91	83
Bulgaria					
Metal	87	99	123	132	122
France					
Ores & concentrates	512	485	55	75	205
Germany					
Ores & concentrates	3 812	2 723	3 575	2 502	5 017
Metal	2 958	346	2 857	725	763
Italy					
Ores & concentrates	29	311	159	205	1 523
Metal	639	221	873	488	911
Oxides	107	185	604	982	443
Lithuania					
Ores & concentrates	...	173	186	...	93
Netherlands					
Ores & concentrates	27 264	26 613	16 284	4 408	17 126
Metal	190	409	282	46	249
Oxides	2 110	3 059	4 253	1 805	6 429
Spain					
Metal	38	3	18	68	243
United Kingdom					
Ores & concentrates	166	78	64	35	305
Metal	318	237	241	433	572

Note(s)

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

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

Imports of molybdenum

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal	1 342	1 243	1 502	430	548
Belgium					
Ores & concentrates	47 122	43 932	37 964	37 101	46 899
Metal	491	752	358	344	142
Oxides	2 618	2 796	2 075	968	694
Bulgaria					
Metal	73	47	15	47	10
Czech Republic					
Ores & concentrates	139	213	284	1 040	184
Metal	175	130	560	127	82
Denmark					
Oxides	196	432	361	388	418
Finland					
Ores & concentrates	9 270	5 789	3 498	40	—
France					
Ores & concentrates	1 896	1 511	1 933	769	1 209
Metal	1 075	830	1 094	541	888
Oxides	579	670	1 191	1 018	1 095
Germany					
Ores & concentrates	14 059	10 721	9 645	6 953	9 134
Metal	3 894	4 238	4 132	1 726	3 038
Oxides	2 049	1 776	1 905	1 661	2 890
Greece					
Metal	47	34	60	58	45
Hungary					
Metal	145	112	102	69	70
Italy					
Ores & concentrates	5 552	5 901	6 220	6 703	9 108
Metal	189	215	254	171	136
Oxides	229	183	125	176	276
Lithuania					
Metal	4	11	6	7	65
Netherlands					
Ores & concentrates	34 891	30 403	36 305	9 555	35 335
Metal	801	1 060	572	84	274
Oxides	1 441	1 341	859	230	594
Poland					
Metal	208	616	843	281	889
Oxides	4	31	71	80	162
Slovakia					
Metal	3	5	24	106	1
Slovenia					
Ores & concentrates	700	876	690	292	561
Spain					
Ores & concentrates	4 584	4 622	3 787	1 724	2 585
Metal	163	113	189	236	239
Sweden					
Ores & concentrates	6 863	7 003	4 645	2 514	5 487
Metal	139	281	442	470	644
Oxides	1 133	780	711	219	414
Turkey					
Ores & concentrates	2	4	3	291	46
Metal	6	8	89	16	28
Oxides	80	69	167	54	100
United Kingdom					
Ores & concentrates	19 032	18 381	15 130	9 007	12 581
Metal	3 445	1 390	2 102	707	1 099
Oxides	635	513	1 433	510	1 638

Note(s)

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

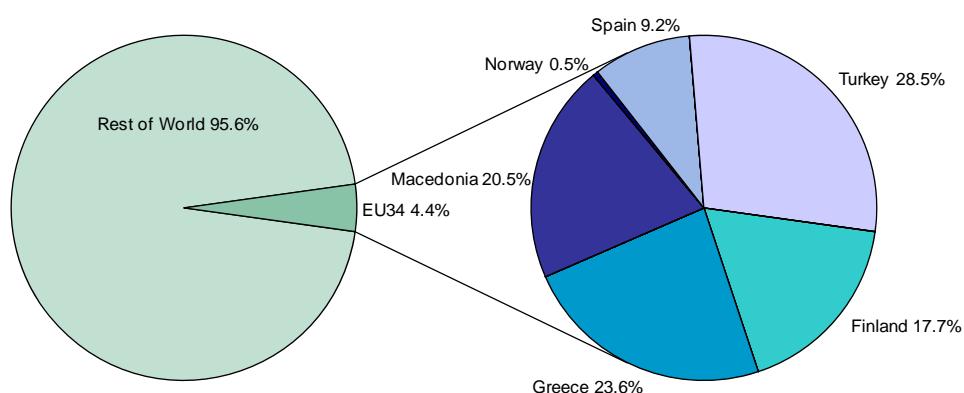
Nickel

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 2010 with 17 per cent of the total, followed by Indonesia (14 per cent), the Philippines (11 per cent) and Australia (11 per cent). Canada remained in fifth place in 2010, despite output increasing by 17 per cent compared to 2009 (with ten per cent of the world's total). The EU34 countries contributed just four per cent to the world total in 2010. Turkey was the largest mine producer in the EU34 with 29 per cent of the EU34 total, followed by Greece (24 per cent) and Macedonia (21 per cent).

China overtook Russia to become the largest refined nickel producer in the world in 2010 with 22.5 per cent of the world's total. Japan, Canada and Australia completed the top five producing countries in 2010 and together these five countries produced 65.8 per cent of the world total. Norway was the largest refined nickel producer in the EU34 in 2010 with 43 per cent of the EU34 total (and just over six per cent of the world total).

EU34 Mine production of nickel 2010

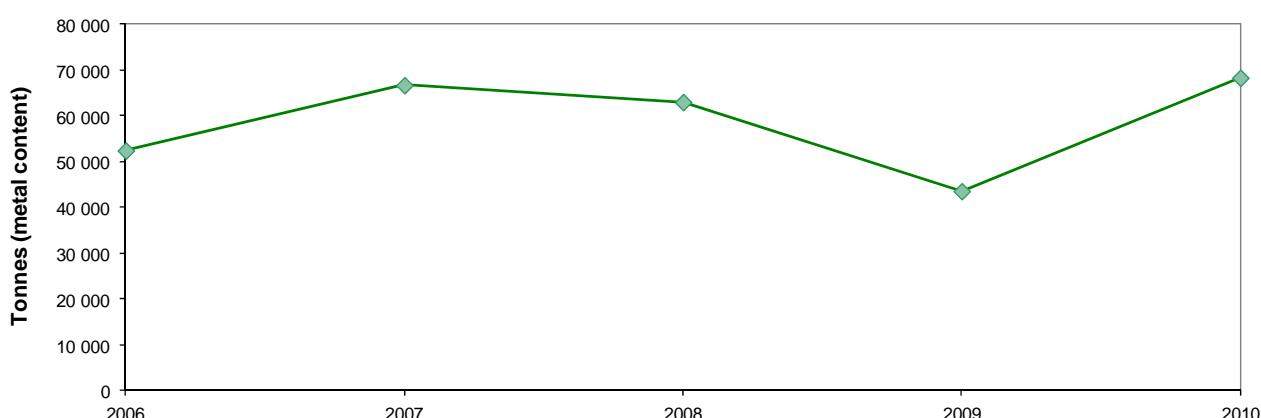


Mine production of nickel

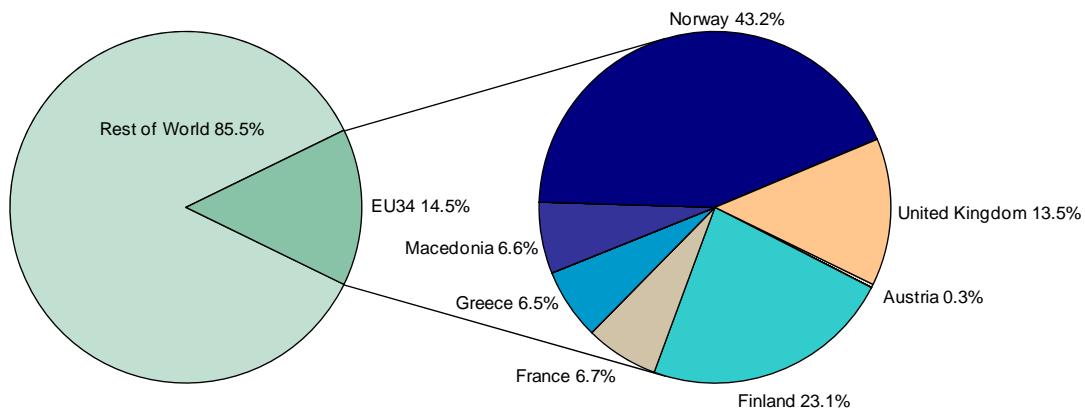
tonnes (metal content)

Country	2006	2007	2008	2009	2010
Finland	3 000	3 600	6 200	1 600	12 100
Greece	21 700	21 200	18 600	9 600	16 100
Macedonia	10 900	15 000	15 000	12 000	14 000
Norway	320	378	377	336	332
Spain	6 398	6 630	8 136	8 029	6 296
Turkey	* 10 100	* 19 900	* 14 700	11 992	* 19 500
EU34 Total	52 400	66 700	63 000	43 600	68 300

EU34 Mine production of nickel 2006 - 10



EU34 Smelter/refinery production of nickel 2010



Smelter/refinery production of nickel

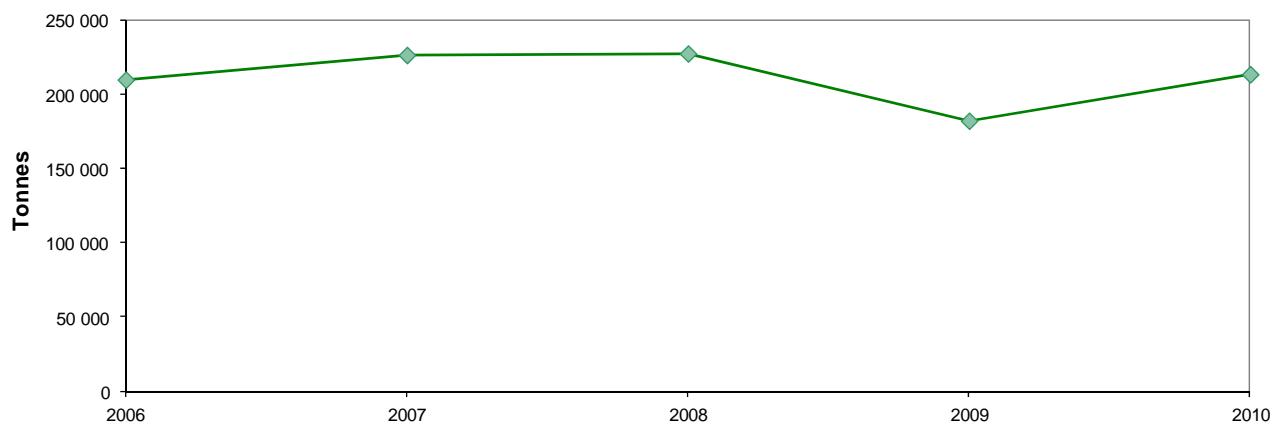
tonnes

Country	2006	2007	2008	2009	2010
Austria	900	900	500	700	* 700
Finland	47 469	55 000	51 963	40 800	49 200
France	13 700	14 800	13 700	13 900	14 400
Greece	17 700	18 668	16 640	8 269	13 960
Macedonia	10 942	15 300	15 000	12 000	* 14 000
Norway	82 257	87 600	88 700	88 577	92 185
United Kingdom	36 750	34 050	40 800	17 800	28 900
EU34 Total	209 700	226 300	227 300	182 000	213 300

Note(s)

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

EU34 Smelter/refinery production of nickel 2006 - 10



Nickel

Exports of nickel

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Unwrought (a)	197	333	225	265	208
Scrap	2 337	2 208	1 910	1 775	1 606
Belgium					
Mattes, sinters etc	559	68	115	921	697
Ores & concentrates	877	1 423	2 750	1 212	724
Unwrought	14 324	15 642	13 298	11 883	9 271
Unwrought alloys	1 994	2 401	2 152	2 479	1 357
Scrap	3 656	4 954	2 872	6 883	3 443
Oxides	685	476	1 196	834	221
Bulgaria					
Scrap	4	20	48	364	1 220
Czech Republic					
Unwrought (a)	690	171	758	228	126
Scrap	1 036	1 245	601	2 420	4 558
Oxides	602	617	643	275	341
Denmark					
Scrap	585	482	642	1 063	1 765
Estonia					
Scrap	713	1 260	1 680	89	0
Finland					
Ores & concentrates	—	—	14 069	—	8 946
Unwrought	37 747	(a) 43 428	40 108	37 202	(a) 31 275
Scrap	47	441	27	1 511	323
Oxides (b)	* 600	* 600	* 500	* 200	* 500
France					
Unwrought	11 761	12 308	10 754	12 095	9 376
Unwrought alloys	999	1 475	2 475	1 377	1 307
Scrap	7 826	7 578	7 558	11 435	30 601
Germany					
Mattes, sinters etc	9 285	18 473	20 202	8 687	13 981
Ores & concentrates	8 901	2 520	316	1 619	2 673
Unwrought	5 287	4 256	5 200	2 617	3 751
Unwrought alloys	9 970	9 664	8 988	3 083	1 866
Scrap	6 224	7 383	5 646	8 227	9 563
Greece					
Ores & concentrates	52 169	150	231	144 529	20 284
Hungary					
Scrap	...	40	81	203	170
Ireland, Republic of					
Scrap	1 015	556	236	220	557
Italy					
Scrap	448	724	658	541	3 537
Unwrought (a)	799	1 272	972	1 293	2 408
Latvia					
Unwrought alloys	...	...	2	165	112
Scrap	116	49	199	3 301	3 108
Lithuania					
Scrap	674	232	131	85	76
Netherlands					
Mattes, sinters etc (b)	* 11 700	* 6 500	* 2 400	* 2 900	* 1 800
Unwrought (a)	...	80	117	105	165
Scrap	1 740	4 456	4 614	1 711	1 956
Norway					
Ores & concentrates	7 860	5 379	8 093	2 464	4 818
Unwrought	81 440	88 628	88 940	88 080	91 813
Scrap	641	1 185	394	274	1 042
Poland					
Mattes, sinters etc	...	...	...	1 443	1 134
Unwrought	312	(a) 466	(a) 334	(a) 172	(a) 1 876
Scrap	290	268	647	260	416
Oxides	577	558	759	260	38
Romania					
Scrap	72	90	1 397	1 089	816

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Slovakia					
Unwrought	128	72	259	201	68
Scrap	134	116	1 061	140	295
Slovenia					
Unwrought (a)	118	232	268	117	1 544
Spain					
Ores & concentrates	95 377	65 853	127 812	102 105	93 536
Unwrought (a)	795	767	600	573	738
Scrap	910	227	226	875	366
Sweden					
Unwrought (a)	516	390	288	522	497
Scrap	5 743	5 344	1 513	1 376	1 022
Oxides	349	457	511	363	534
Switzerland					
Unwrought (a)	154	113	94	53	173
Scrap	1 669	1 750	1 603	1 519	1 090
Turkey					
Ores & concentrates	91 828	175 712	130 179	99 700	172 682
Unwrought (a)	9	—	232	141	292
Scrap	102	79	734	470	519
United Kingdom					
Unwrought	31 610	24 147	26 235	15 834	18 639
Unwrought alloys	6 486	4 375	4 378	4 753	4 530
Scrap	15 555	16 872	18 229	12 693	19 361

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	2006	2007	2008	2009	2010
Austria					
Mattes, sinters etc	684	443	476	216	255
Unwrought (a)	7 599	7 874	10 511	4 142	6 894
Scrap	670	605	1 164	367	440
Oxides	195	78	82	11	15
Belgium					
Mattes, sinters etc	203	1 194	1 250	499	330
Ores & concentrates	533	564	283	419	764
Unwrought	51 130	37 466	29 492	12 037	15 052
Unwrought alloys	483	403	723	1 915	469
Scrap	271	9 946	566	288	918
Oxides	349	241	618	565	700
Bulgaria					
Unwrought (a)	205	195	204	90	125
Czech Republic					
Unwrought (a)	3 531	4 429	3 728	2 179	2 223
Scrap	152	294	473	1 468	1 257
Oxides	844	919	838	319	393
Denmark					
Scrap	403	529	100	122	382
Estonia					
Unwrought (a)	1 378	350	34	15	27
Scrap	562	803	129	—	—

Nickel

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Finland					
Mattes, sinters etc	45 851	50 856	33 247	22 715	33 986
Ores & concentrates	190 233	256 932	290 914	185 202	217 164
Unwrought	27 465	15 455	18 187	9 192	14 558
Unwrought alloys	474	2	14	792	17 649
Scrap	757	299	481	149	17
France					
Mattes, sinters etc	19 818	19 864	18 952	20 015	19 921
Ores & concentrates	149	1 131	413	1 783	265
Unwrought	26 631	25 752	23 368	10 909	13 964
Unwrought alloys	5 500	7 702	9 386	5 364	5 029
Scrap	2 393	1 341	2 166	1 265	2 164
Oxides	297	542	560	310	524
Germany					
Mattes, sinters etc	6 459	1 911	797	561	849
Ores & concentrates	293	1 532	1 310	1 087	1 667
Unwrought	70 947	74 083	68 767	42 201	69 282
Unwrought alloys	2 908	2 531	6 102	3 839	8 023
Scrap	15 116	19 799	18 316	8 259	8 584
Oxides	445	593	617	463	621
Greece					
Ores & concentrates	6 657	36	—	15	—
Hungary					
Unwrought (a)	141	116	69	219	346
Ireland, Republic of					
Unwrought (a)	1 256	97	1 118	626	1 503
Italy					
Mattes, sinters etc	1 550	1	1	93	1
Unwrought	48 178	41 802	42 339	25 833	39 586
Unwrought alloys	3 918	1 613	2 164	2 841	1 171
Scrap	1 606	1 372	892	763	1 063
Luxembourg					
Unwrought (a)	222	112	11	4	51
Macedonia					
Ores & concentrates	466 623	863 999	789 929	985 925	1 210 300
Netherlands					
Ores & concentrates	...	15	11	* 220	5 940
Unwrought alloys	139	204	1 227	227	638
Scrap	9 870	14 008	12 647	4 666	21 724
Oxides (b)	* 140	* 20	* 30	* 70	* 50
Norway					
Mattes, sinters etc	158 274	165 628	178 502	153 437	170 365
Unwrought (a)	60	215	201	199	235
Poland					
Mattes, sinters etc	4	38	...	1 468	1 223
Unwrought (a)	2 573	2 344	3 398	1 353	3 350
Scrap	116	4 897	3 683	2 122	341
Portugal					
Unwrought	(a) 739	(a) 450	524	316	312
Romania					
Unwrought (a)	747	528	338	288	456
Slovakia					
Unwrought (a)	221	139	190	120	96
Slovenia					
Unwrought (a)	874	967	2 686	2 020	2 967
Spain					
Unwrought	28 171	21 202	22 668	12 290	16 468
Unwrought alloys	1 174	1 426	1 547	821	1 125
Oxides	127	94	151	50	329
Sweden					
Mattes, sinters etc	4 215	4 252	1 490	1 607	1 239
Unwrought	28 101	25 303	25 474	16 544	23 375
Unwrought alloys	1 414	356	1 317	661	397
Scrap	9 158	9 118	12 215	8 709	10 491
Switzerland					
Unwrought (a)	1 706	1 787	2 054	1 202	1 370

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Turkey					
Unwrought (a)	3 417	3 710	4 038	2 711	3 391
Oxides	150	140	142	148	144
United Kingdom					
Mattes, sinters etc	56 336	62 637	63 553	25 929	50 263
Unwrought	17 414	21 044	16 888	8 003	14 200
Unwrought alloys	2 883	2 947	3 210	3 596	3 310
Scrap	7 975	10 376	10 291	9 593	8 154

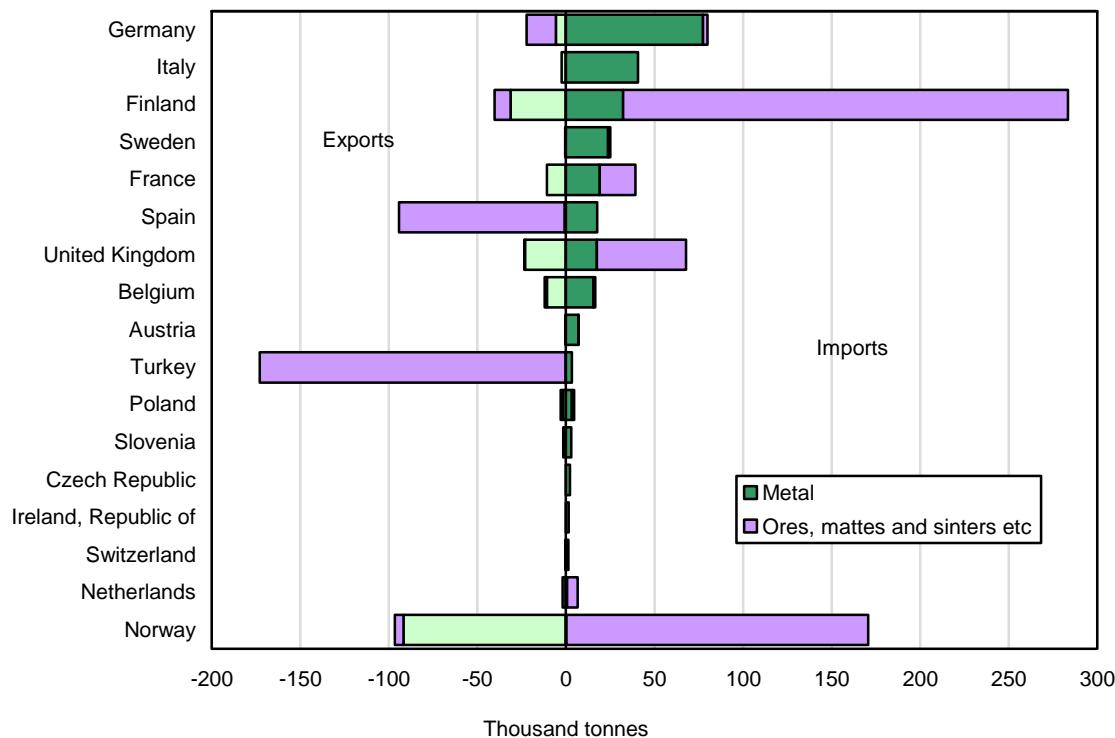
Note(s)

- (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 - EU34 trade in 2010

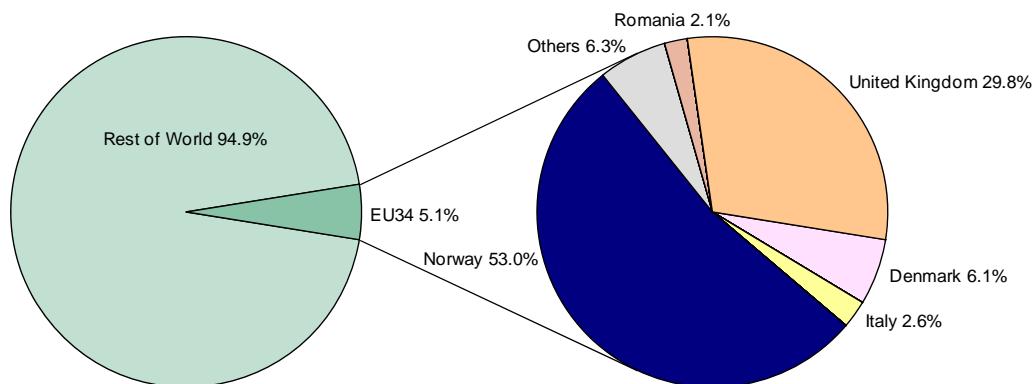


Crude petroleum

Petroleum ('oil') is a fundamental energy resource and raw material for lubricants, olefins, polymers (plastics) and other synthetic materials.

Russia was again the largest producing country in 2010, with 12.9 per cent of the world total. Saudi Arabia produced 12.0 per cent and was followed by the USA with 8.9 per cent. The EU34 countries produced just 5.1 per cent of the world total with 53 per cent of this coming from Norway and 30 per cent from the United Kingdom.

EU34 Production of crude petroleum 2010



Production of crude petroleum

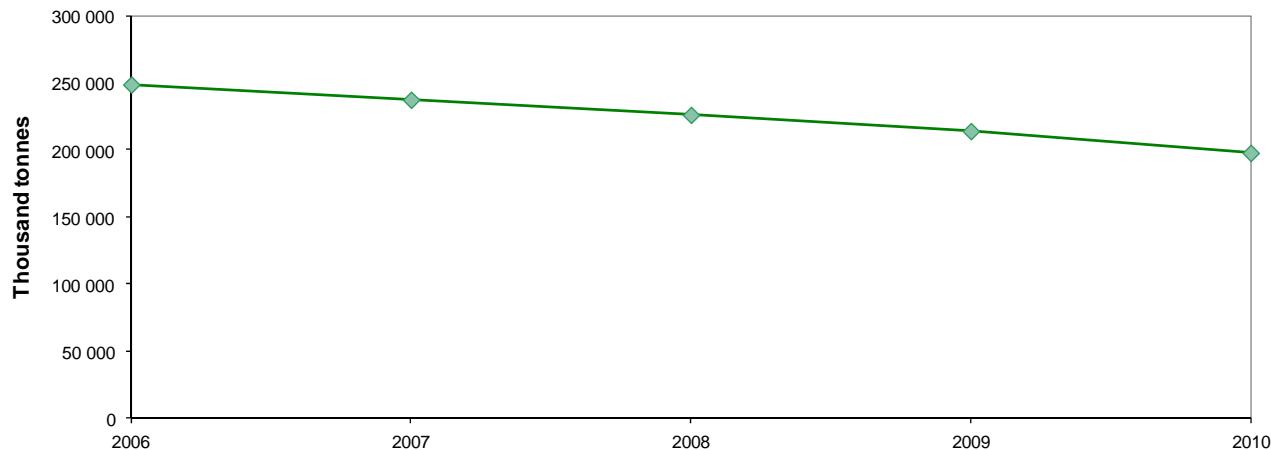
tonnes

Country	2006	2007	2008	2009	2010
Austria	856 270	853 548	861 639	905 031	875 369
Bulgaria	27 500	25 700	23 000	23 800	22 400
Croatia	950 859	911 207	867 027	807 424	748 791
Czech Republic	259 000	240 000	236 000	217 000	173 000
Denmark	17 068 000	15 552 000	14 338 000	13 045 000	12 090 000
Estonia (a)	1 624 000	1 901 600	1 869 500	1 733 000	2 080 000
France	1 100 000	1 013 000	975 000	899 000	* 800 000
Germany	3 515 401	3 415 374	3 053 998	2 800 063	2 511 174
Greece	93 000	80 000	66 000	87 000	86 000
Hungary	886 000	838 672	811 000	796 000	790 000
Italy	5 800 000	5 800 000	5 200 000	4 600 000	5 100 000
Lithuania	180 894	154 449	127 658	114 956	114 464
Netherlands	2 022 475	2 576 222	2 163 000	1 312 000	1 020 000
Norway	136 695 000	125 763 000	121 101 700	115 000 000	104 881 356
Poland	795 742	720 603	754 907	686 992	686 487
Romania	4 777 000	4 837 000	4 528 000	4 388 940	4 172 411
Slovakia	30 520	23 000	21 000	19 000	16 000
Slovenia	284	344	174	138	233
Spain	143 432	142 879	127 542	106 817	11 528
Turkey	2 175 353	2 131 288	2 222 594	2 489 914	2 602 114
United Kingdom	69 665 000	70 357 000	66 745 000	64 001 000	58 988 000
EU34 Total	248 700 000	237 300 000	226 100 000	214 000 000	197 800 000

Note(s)

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

(a) From oil shale

EU34 Production of crude petroleum 2006-10**Exports of crude petroleum**

tonnes

Country	2006	2007	2008	2009	2010
Belgium	2 833 897	2 422 211	2 496 349	2 390 390	2 593 653
Czech Republic	41 794	16 573	18 130	21 600	18 239
Denmark	11 456 257	9 493 573	8 593 198	8 520 980	7 363 518
France	2 675	190	65	1 689	161 761
Germany	344 965	196 926	40 011	265 799	180 515
Ireland, Republic of	11	55 635	—	11	96
Italy	937 813	1 442 498	1 195 500	619 630	423 777
Latvia	12 099	—	...	93	524
Lithuania	115 075	155 416	128 838	113 172	110 597
Netherlands	309 456	207 858	328 795	184 860	340 357
Norway	105 110 521	99 245 180	91 299 591	87 982 743	77 765 696
Poland	243 699	287 684	34 871	17 227	3
Slovakia	27 686	22 172	18 159	14 932	13 048
Spain (a)	* 53 000	* 2 400	* 24 000	* 400	* 164 000
Turkey (a)	* 545 000	* 3 584 000	* 4 115 000	* 2 956 000	* 1 139 000
United Kingdom	47 864 601	47 058 702	43 354 245	43 550 953	41 591 305

Note(s)

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

Imports of crude petroleum

tonnes

Country	2006	2007	2008	2009	2010
Austria	7 698 169	7 645 010	7 945 639	7 428 183	6 770 069
Belgium	33 843 960	34 847 065	35 556 835	32 376 828	35 234 358
Bulgaria	(a)* 4 866 000	7 162 499	7 262 658	5 770 397	5 355 541
Croatia	3 778 918	4 285 565	3 476 266	4 044 874	3 517 452
Czech Republic	7 752 356	7 179 766	8 141 759	7 451 765	7 770 418
Denmark	2 576 191	2 136 643	2 240 240	3 320 486	2 562 669
Finland	12 176 669	12 221 330	11 908 304	11 516 562	11 211 580
France	83 411 036	81 011 061	81 854 226	70 343 956	59 946 970
Germany	113 960 654	105 162 534	105 835 665	97 648 203	91 239 711
Greece	18 370 720	16 938 841	6 422 841	2 437 424	19 064 118
Hungary	(a)* 7 667 000	6 064 641	(a)* 6 959 000	(a)* 6 241 000	5 310 899
Ireland, Republic of	3 082 372	3 595 537	2 878 397	2 792 968	2 931 391
Italy	86 807 240	89 130 022	82 998 642	76 301 866	76 729 305
Lithuania	7 994 367	4 869 858	9 325 904	8 413 067	9 018 334
Macedonia	1 081 738	1 063 614	1 057 671	992 672	...
Netherlands	61 548 064	57 027 374	58 484 561	35 086 584	60 408 191
Norway	440 374	1 446 918	828 709	1 225 514	1 508 241

Petroleum and Natural Gas

Imports continued

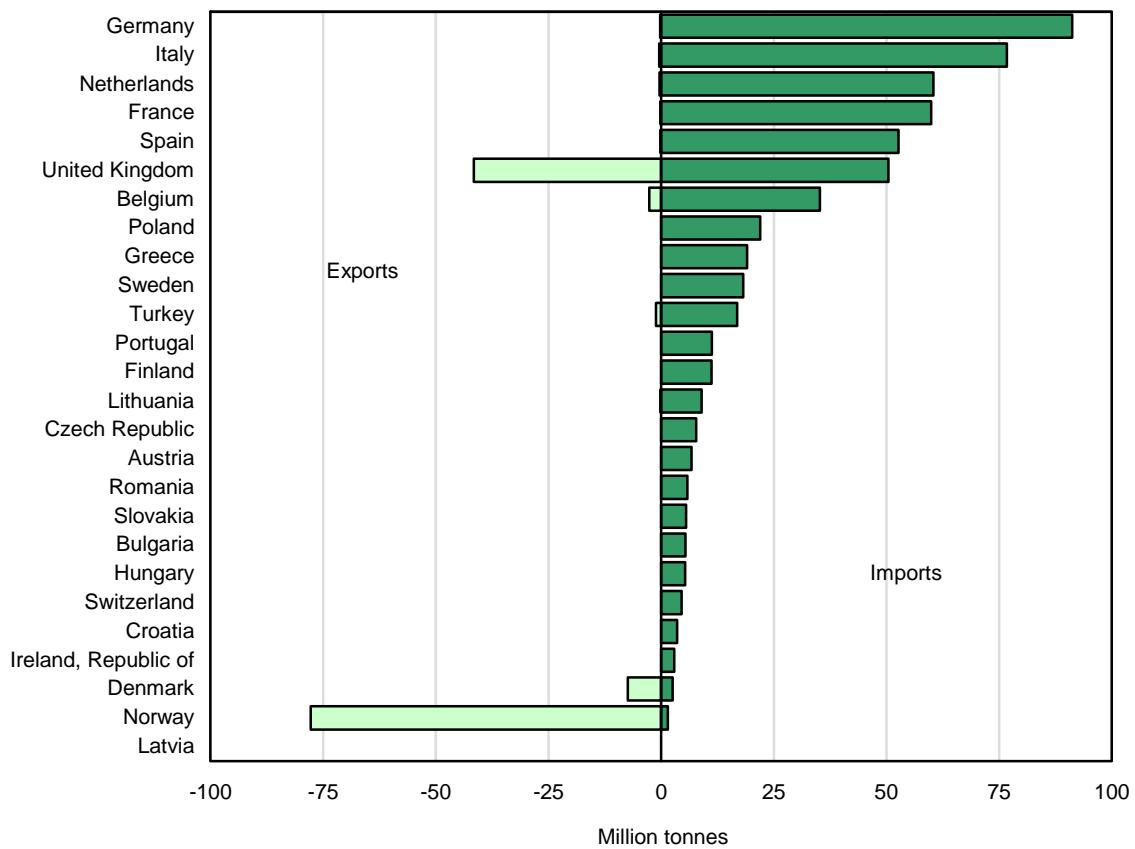
tonnes

Country	2006	2007	2008	2009	2010
Poland	19 479 284	20 778 118	20 949 949	19 959 321	22 009 801
Portugal	13 479 579	12 386 104	12 050 226	10 193 366	11 251 958
Romania	8 678 466	8 533 821	8 419 364	6 893 956	5 821 640
Slovakia	5 878 819	6 141 203	5 778 688	5 787 725	5 555 541
Spain	59 203 359	57 773 847	59 444 410	52 331 324	52 714 224
Sweden	19 170 472	17 719 046	19 184 387	16 818 080	18 236 284
Switzerland	5 413 010	4 595 181	5 141 634	4 755 189	4 534 930
Turkey	23 786 875	23 445 764	21 833 471	14 219 427	16 873 392
United Kingdom	55 735 570	44 129 689	52 103 843	50 656 965	50 447 008

Note(s)

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

Crude petroleum - EU34 trade in 2010

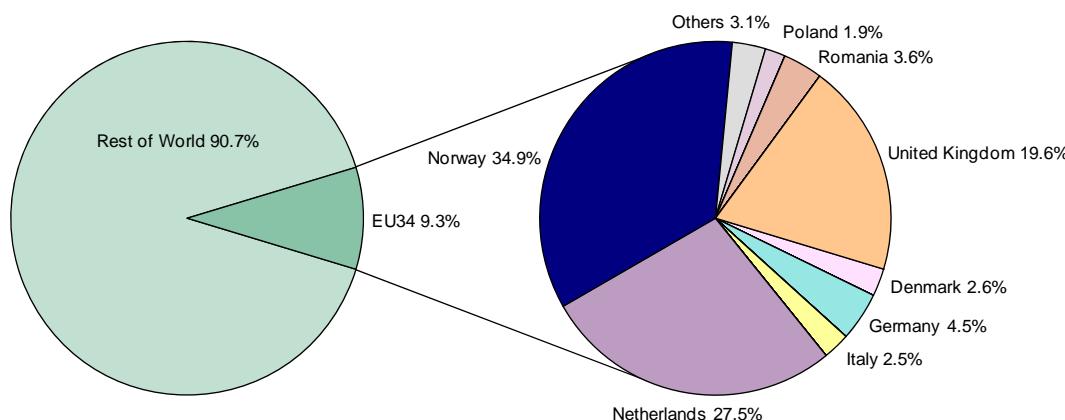


Natural gas

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).

The world's output of natural gas increased by five per cent in 2010 compared to 2009. Russia regained its position of the world's largest producer (with 19.8 per cent of the world total) and was closely followed by the USA (18.6 per cent). The EU34 countries contributed 9.3 per cent to the world total, with 34.9 per cent of this coming from Norway, 27.5 per cent from the Netherlands and 19.6 per cent from the United Kingdom.

EU34 Production of natural gas 2010



Production of natural gas

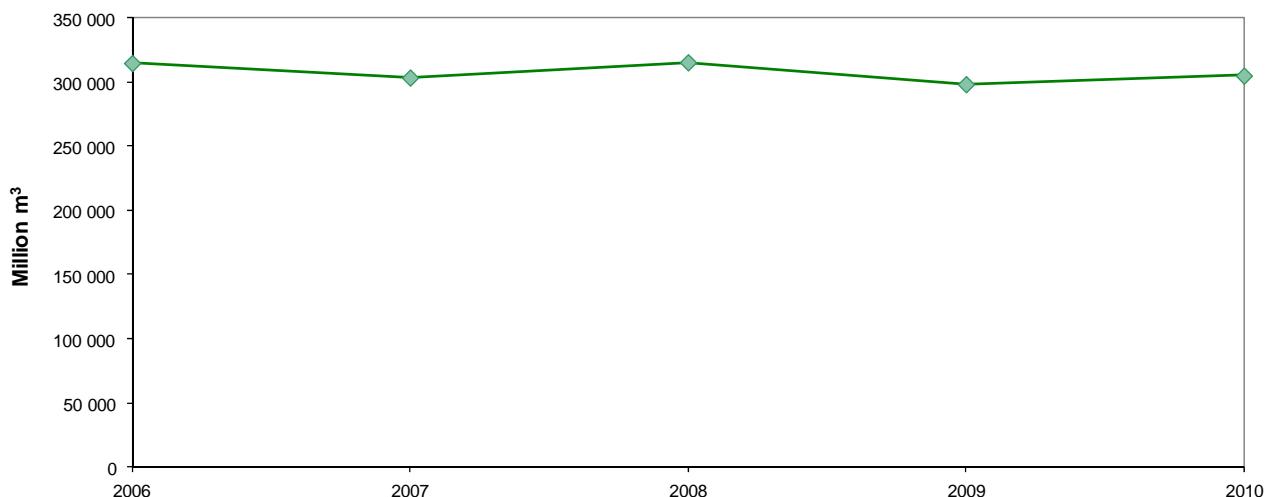
million cubic metres

Country	2006	2007	2008	2009	2010
Austria	1 765	1 835	1 544	1 559	1 713
Bulgaria	519	295	218	15	74
Croatia	2 714	2 892	2 729	2 591	2 727
Czech Republic	148	148	168	180	201
Denmark	9 862	8 757	9 562	7 980	7 792
France	1 167	1 023	925	813	* 800
Germany	19 798	18 075	16 547	15 554	13 666
Greece	* 16	21	14	11	* 10
Hungary	3 254	2 653	2 703	2 748	2 600
Ireland, Republic of (a)	500	519	506	414	402
Italy	11 000	9 700	9 300	7 900	7 600
Netherlands	73 300	72 431	79 325	74 659	83 944
Norway	87 600	89 700	99 200	103 500	106 430
Poland	5 651	5 653	5 382	5 537	5 671
Romania	12 422	11 981	11 520	11 273	11 138
Slovakia	135	195	111	114	100
Slovenia	4	3	3	3	7
Spain	118	42	46	19	58
Turkey	307	839	894	660	626
United Kingdom	84 748	76 970	74 937	63 022	59 674
EU34 Total	315 000	304 000	316 000	299 000	305 000

Note(s)

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

(a) Sales

EU34 Production of natural gas 2006 - 10**Exports of natural gas**

tonnes

Country	2006	2007	2008	2009	2010
Austria	1 645 995	2 688 210	2 812 303	2 164 960	2 645 056
Belgium	39 448 874	20 807 227	59 248 950	7 659 165	11 792 847
Croatia	871 768	540 782	457 192	570 296	347 567
Czech Republic	—	—	—	834 462	1 318 872
Denmark	3 818 822	3 786 580	4 023 305	2 906 339	* 1 000 000
Finland	—	1 218	1 420	4 557	9 052
France	11 501 866	10 247 611	22 087 224	3 469 724	2 908 272
Germany (a)	* 36 880 000	* 17 703 000	* 19 648 000	* 11 354 000	* 14 165 000
Hungary	—	127 853	—	323 537	—
Ireland, Republic of	642 980	5 447	—	383	3
Italy	331 234	585 818	1 749 247	1 620 776	1 427 161
Norway	63 323 422	63 999 250	71 394 708	74 357 298	75 626 277
Portugal	—	—	890 688	254 997	389 309
Slovakia	221 885	124 820	112 328	334 205	1 153 269
Slovenia	54 579	34 212	24 368	3	—
Spain	1 546	31 159	—	61 433	200 027
Turkey	2 974	5 392	412 655	665 247	590 182
United Kingdom (b)	10 369 017	10 589 741	10 547 780	11 788 544	15 167 668

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

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

(b) Tonnes of oil equivalent, converted from GWh. One GWh is 85.985 tonnes of oil equivalent. Source: Department of Energy and Climate Change

Imports of natural gas

tonnes

Country	2006	2007	2008	2009	2010
Austria	7 593 331	6 988 269	7 136 000	7 566 509	8 697 934
Belgium	12 961 751	11 194 656	11 419 294	14 431 349	14 144 704
Croatia	1 085 554	700 955	855 326	738 109	587 846
Czech Republic	5 489 325	5 478 515	6 264 909	7 080 247	7 471 522
Estonia	154 926	726 823	717 831	477 844	491 806
Finland	4 402 041	5 822 601	6 028 908	—	3 252 037
France	62 023 544	75 216 254	79 101 617	32 440 935	41 624 014
Germany	83 475 456	75 980 087	78 201 702	78 990 573	82 784 241
Greece	3 029 778	3 789 666	4 186 746	3 086 243	3 520 510
Hungary	8 013 603	7 366 053	8 574 143	6 238 749	5 858 735
Ireland, Republic of	1 946 640	3 838 104	4 364 595	4 192 236	4 738 918
Italy	42 870 000	71 491 000	36 489 000	52 879 546	59 616 091
Latvia	1 201 960	1 158 965	1 138 776	1 047 240	1 160 668
Lithuania	2 129 513	2 414 798	2 246 642	1 761 529	2 048 906
Luxembourg	3 205	1 797	221 375	92 122	3 591
Macedonia	56 876	63 225	86 823	53 192	79 059
Netherlands	29 784 906	(a)* 10 072 000	(a)* 17 228 000	(a)* 9 512 000	(a)* 11 044 000
Norway	(a)* 89 684	118 063	442	231	4 393
Portugal	3 356 949	3 758 075	4 188 706	3 770 943	3 849 819
Romania	4 048 749	8 877 219	7 757 273	1 451 767	2 122
Slovakia	5 157 793	4 249 360	4 640 012	4 820 301	5 765 254
Slovenia	811 065	807 877	750 581	748 930	828 674
Spain	26 548 202	27 048 984	32 044 466	28 024 572	27 795 263
Sweden	372 627	749 162	647 510	860 497	1 066 174
Switzerland	2 560 801	2 402 267	2 596 153	2 450 414	2 759 930
United Kingdom (b)	20 982 834	29 065 166	35 000 538	39 191 017	50 687 900

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

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

(b) Tonnes of oil equivalent, converted from GWh. One GWh is 85.985 tonnes of oil equivalent. Source: Department of Energy and Climate Change

Phosphate rock

Phosphate rock

Phosphate rock is the term given to a range of phosphorus-bearing minerals that are commercially exploited. Phosphate rock is chiefly used to produce fertilisers. The remainder is used in the manufacture of detergents, animal feedstock and many other minor applications.

China, Morocco and the USA are the world's largest producers and together the output from these countries represents 66.4 per cent of the world's phosphate rock. Finland is the only producer in the EU34, which is otherwise dependent on imports.

Production of phosphate rock

Country	2006	2007	2008	2009	2010
Finland	857 922	830 989	780 000	660 405	* 820 000

Exports of phosphate rock

Country	2006	2007	2008	2009	2010
Austria	942	—	...	621	6
Belgium	82 232	115 628	84 619	15 792	30 744
Cyprus	...	...	2 960	...	—
Czech Republic	726	732	1 091	817	—
Finland	1 141	6 942	3 248	3 796	52 006
France	10 147	15 919	96 127	(a)* 22 000	(a)* 18 000
Germany	700	168	314	137	489
Italy	6 789	7 800	7 661	6 416	10 751
Lithuania	1 406	2 011	140	—	—
Macedonia	1 944	2 050	1 685	1 233	1 056
Netherlands	98 687	106 235	120 214	11 807	138 239
Slovakia	2 603	—	...	48	11
Slovenia	140 281	109 350	164 848	56 973	153 182
Spain	7 259	7 840	4 754	1 565	1 888
Sweden	969	1 623	4 897	1 228	125

Note(s)

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

Imports of phosphate rock

Country	2006	2007	2008	2009	2010
Austria	94 630	106 018	(a)* 158 000	(a)* 58 000	(a)* 160 000
Belgium	1 299 125	1 512 059	1 458 207	579 326	1 114 210
Bulgaria	449 874	462 247	534 734	309 564	455 539
Croatia	317 571	327 936	328 599	117 441	51 010
Czech Republic	28 141	33 954	20 928	543	9 917
Finland	86 734	113 286	118 749	—	28 144
France	387 794	442 826	374 792	130 323	305 259
Germany	117 711	115 109	145 905	28 863	120 580
Greece	197 629	237 577	251 845	192 135	252 644
Ireland, Republic of	154	6 028	3 425	85	5 328
Italy	242 633	249 847	248 005	89 245	231 808
Lithuania	1 193 093	1 202 196	1 209 385	1 162 070	1 354 093
Netherlands	815 692	847 776	1 108 711	192 355	779 354
Norway	672 546	673 331	682 369	403 098	9 638
Poland	1 658 266	1 689 120	1 448 780	458 923	1 299 106
Portugal	91 912	114 826	90 667	44 189	93 348
Romania	148 110	193 276	225 581	103 500	233 377
Slovenia	140 455	109 768	164 872	56 969	153 160

Imports continued

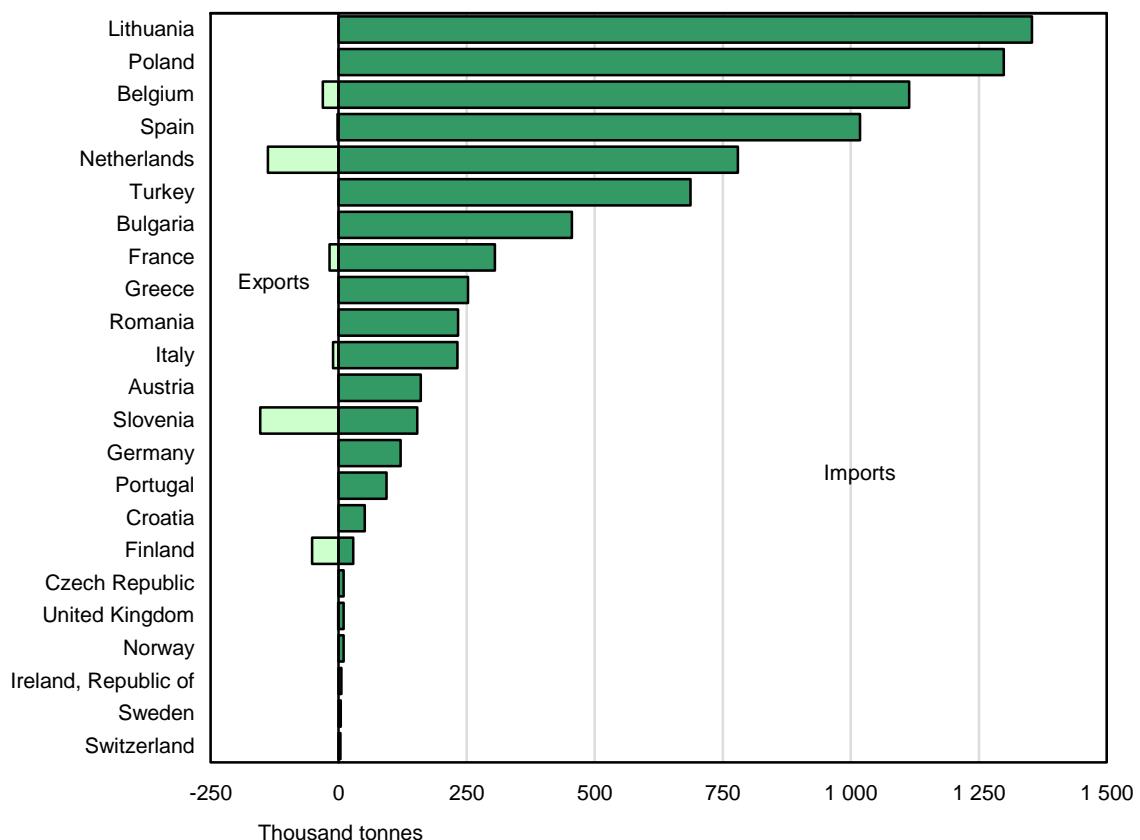
tonnes

Country	2006	2007	2008	2009	2010
Spain	1 556 734	1 653 874	1 611 494	438 755	1 017 820
Sweden	4 283	2 369	922	2 918	3 869
Switzerland	1 612	4 645	358	585	3 657
Turkey	744 504	782 996	741 190	707 595	686 966
United Kingdom	7 803	23 052	28 971	5 600	9 873

Note(s)

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

Phosphate rock - EU34 trade in 2010



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 only 12 countries. The largest producers in 2010 were South Africa (60 per cent - chiefly platinum) and Russia (30 per cent - mainly palladium). There is very little EU34 mine production.

Mine production of platinum group metals

kilograms (metal content)

Country	2006	2007	2008	2009	2010
Poland					
Platinum	30	30	30	30	* 30
Palladium	20	20	20	20	* 20

(1) In addition to the production listed, concentrates produced in Spain are believed to be processed in China to recover platinum group metals.

Exports of platinum group metals

kilograms

Country	2006	2007	2008	2009	2010
Austria					
Platinum & platinum metals	£14 817 000	£30 801 000	£52 298 000	£38 485 000	£83 434 000
Waste & scrap	£281 000	£621 000	£621 000	£295 000	£1 070 000
Belgium					
Platinum & platinum metals	5 600	5 800	8 400	10 700	14 300
Waste & scrap	934 000	592 300	649 800	315 200	497 000
Bulgaria					
Waste & scrap	(a)* 73 200	(a)* 94 700	(a)* 1 400	(a)* 44 000	...
Croatia					
Waste & scrap	27 719	18 314	27 018	27 959	53 996
Czech Republic					
Platinum & platinum metals	(a)* 500	(a)* 800	3 400	5 200	6 800
Waste & scrap	4 700	1 900	700	—	—
Denmark					
Platinum & platinum metals	32	48	1	7 000	200
Finland					
Platinum & platinum metals	23	19	30	34 126	6 238
Waste & scrap	713	463	218	267	723
France					
Platinum	5 283	4 758	2 033	1 140	1 884
Other platinum metals	3 565	2 800	2 120	1 396	914
Waste & scrap	383 300	190 100	282 400	609 699	179 798
Germany					
Palladium	24 400	27 800	28 600	43 329	35 462
Platinum	40 600	28 100	27 700	36 204	24 597
Other platinum metals	16 000	22 300	24 700	65 029	33 299
Waste & scrap	2 797 600	3 399 700	3 238 800	3 352 271	5 997 852
Hungary					
Waste & scrap	...	89 200	...	...	92 300
Ireland, Republic of					
Waste & scrap	6 523	7 179	16 854	8 544	5 440
Italy					
Platinum	9 542	11 783	13 350	10 043	10 408
Other platinum metals	6 951	5 828	8 295	8 898	12 684
Waste & scrap	1 065	94 988	257	311	634
Latvia					
Waste & scrap	468	219	181	—	—
Lithuania					
Waste & scrap	16	404	62 710	101 900	193 600

Exports continued

kilograms

Country	2006	2007	2008	2009	2010
Luxembourg					
Platinum & platinum metals	909	4 700	5 800	2 500	...
Waste & scrap	8	...	...	24 700	5 600
Netherlands					
Platinum	£8 718 000	£8 190 000	£18 207 000	£59 804 000	£14 634 000
Other platinum metals	£3 971 000	£3 766 000	£10 385 000	£10 383 000	£7 953 000
Waste & scrap	16 569	25 850	352 175	* 163 160	1 877
Norway					
Platinum & platinum metals	11 885	14 611	15 393	12 341	9 714
Waste & scrap	29 817	66 193	5 119	35 829	157 937
Poland					
Platinum & platinum metals	350	156	7 275	47 400	1 100
Waste & scrap	4 312	139	7 399	1 600	300
Portugal					
Waste & scrap	...	33 500	...	—	...
Slovenia					
Platinum & platinum metals	248	84	110	400	—
Spain					
Platinum & platinum metals	363	434	3 104	1 672	2 347
Waste & scrap	290	44	88 069	225 411	291 877
Sweden					
Platinum & platinum metals	£1 514 000	£900 000	£851 000	£177 000	£429 000
Waste & scrap	280 000	242 500	575 300	40 400	69 000
Switzerland					
Palladium	46 578	52 880	86 503	57 571	70 662
Platinum	62 243	57 569	69 404	61 433	72 006
Other platinum metals	292	636	717	192	464
Waste & scrap	200 470	393 326	616 867	362 419	314 061
United Kingdom					
Palladium	48 688	56 994	47 142	53 091	42 864
Platinum	42 843	52 789	40 630	43 177	24 464
Other platinum metals	23 353	23 731	22 548	20 044	23 021
Waste & scrap	3 507 381	3 793 637	4 278 682	4 273 222	527 862

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	2006	2007	2008	2009	2010
Austria					
Platinum & platinum metals	8 400	1 100	700	1 600	1 400
Belgium					
Platinum & platinum metals	6 337	500	300	1 200	1 000
Bulgaria					
Platinum & platinum metals	31	82 367	613	16	17
Cyprus					
Platinum & platinum metals (a)	* 900	* 700	* 400	...	* 900
Czech Republic					
Platinum	4 326	99	42 358	81 500	25 000
Platinum metals	273	477	47 932	600	17 700
Waste & scrap	86	913	4 414	772	7 835
Denmark					
Platinum & platinum metals	2 962	6 952	6 448	4 699	2 300
France					
Platinum	4 455	6 263	8 471	3 633	4 516
Other platinum metals	3 711	3 631	4 404	5 348	3 006
Waste & scrap	370 600	114 300	241 200	359 138	143 885

Platinum Metals

Imports continued

kilograms

Country	2006	2007	2008	2009	2010
Germany					
Platinum	46 900	51 500	47 100	42 452	40 983
Palladium	42 000	54 700	55 100	47 092	53 479
Other platinum metals	8 700	9 700	6 400	12 120	19 655
Waste & scrap	9 332 700	11 442 800	10 983 600	6 224 314	8 069 744
Greece					
Platinum & platinum metals	248	7 400	300	100	500
Hungary					
Platinum & platinum metals	91	126	453	26	1 300
Iceland					
Platinum & platinum metals	70	960	162	158	117
Ireland, Republic of					
Platinum & platinum metals	3 999	10 425	2 185	121 381	9 470
Italy					
Platinum	17 279	20 491	16 570	13 627	12 545
Palladium	15 943	18 880	20 593	13 047	10 019
Other platinum metals	3 077	1 811	2 426	1 909	1 694
Waste & scrap	431	447	7 646	8 178	16 918
Latvia					
Waste & scrap	...	1 842	2 842	(d)* 3 900	(d)* 400
Lithuania					
Waste & scrap	26 700	65 900	40 800	22 700	76 400
Luxembourg					
Platinum & platinum metals	4 145	9 322	1 410	1 702	1 633
Netherlands					
Platinum	£21 771 000	£22 785 000	£89 137 000	£78 613 000	£25 740 000
Other platinum metals	£7 066 000	£7 722 000	£8 219 000	£11 659 000	£13 014 000
Norway					
Platinum & platinum metals	922	1 057	1 072	1 005	1 425
Waste & scrap	1 102	846	1 093	930	1 362
Poland					
Platinum & platinum metals	15 500	16 400	16 900	31 300	5 100
Portugal					
Platinum & platinum metals	77	57	308	146	796
Slovakia					
Platinum	23 016	348 975	1 573 351	1 533 869	1 625 761
Palladium	113	35	58	1 191	2 702
Slovenia					
Platinum & platinum metals	449	177	177	132	200
Spain					
Platinum & platinum metals (a)	* 5 600	* 4 500	* 3 900	* 3 000	* 3 500
Waste & scrap	526	4 111	8 947	29 448	29 183
Sweden					
Platinum & platinum metals	£4 509 000	£6 109 000	£8 722 000	£5 934 000	£7 551 000
Waste & scrap	618 000	731 700	13 800	80 200	1 500
Switzerland					
Platinum	76 842	43 113	67 022	91 048	49 089
Palladium	126 416	46 744	60 666	50 258	41 454
Other platinum metals	1 078	913	1 255	1 319	813
Waste & scrap	172 679	267 258	494 962	688 973	912 680
Turkey					
Platinum & platinum metals	212	316	463	235	200
United Kingdom					
Platinum	23 472	26 015	29 943	30 339	58 659
Palladium	37 226	42 395	32 806	36 652	73 184
Other platinum metals	9 127	6 507	5 409	6 713	9 487
Waste & scrap	1 148 802	1 456 413	1 416 905	1 100 117	819 769

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.

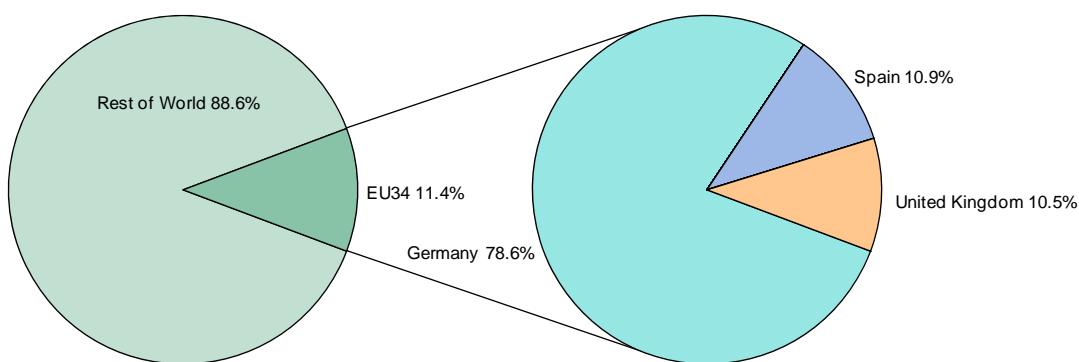
(a) BGS estimates, based on known exports from certain countries

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 2010. The world's largest producers are Canada, Russia and Belarus and together these three countries generated 63 per cent of world production. The EU34 produced 11 per cent of world production in 2010 and most of this was from Germany (79 per cent of EU34 total and nine per cent of the world total).

EU34 Production of potash 2010

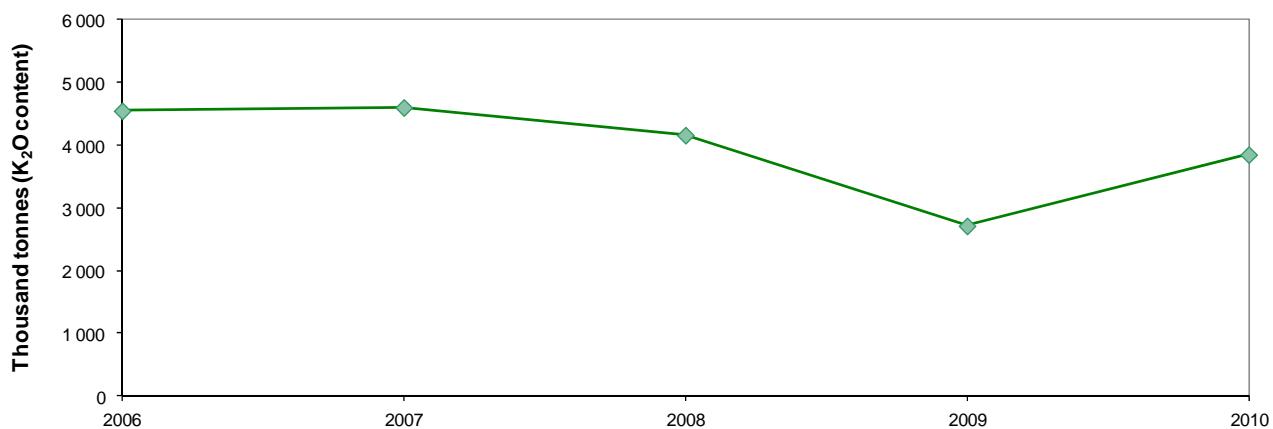


Production of potash

tonnes (K₂O content)

Country	2006	2007	2008	2009	2010
Germany Potassic salts	3 624 977	3 636 504	3 280 467	1 825 139	3 023 941
Spain Chloride	493 189	531 739	472 952	481 455	418 778
United Kingdom Chloride	427 000	430 000	403 800	* 403 800	* 403 800
EU34 Total	4 545 000	4 598 000	4 157 000	2 710 000	3 847 000

EU34 Production of potash 2006 - 10



Exports of potash

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Potassic fertilisers	8 584	13 595	14 613	13 843	20 259
Belgium					
Chloride	102 342	58 108	10 631	58 784	64 018
Other potassic fertilisers	10 476	590	276	136	398
Czech Republic					
Potassic fertilisers	3 143	3 096	3 322	6 843	4 235
Denmark					
Chloride	29 533	127	45	59	69
Finland					
Sulphate	(b)* 7 900	49 485	17 181	45 818	53 850
Chloride	65 003	50 342	50 822	26	178
France					
Sulphate	32 887	33 446	34 777	18 248	17 085
Chloride	3 185	8 166	11 416	9 858	36 215
Other potassic fertilisers	221	278	327	414	1 788
Germany					
Potassic fertilisers (a)(b)	3 624 977	3 636 504	3 280 467	1 825 139	3 023 941
Greece					
Potassic fertilisers	3 977	1 217	1 648	1 369	1 294
Hungary					
Potassic fertilisers	2 336	3 474	7 891	9 916	5 697
Italy					
Potassic fertilisers	2 194	5 572	6 345	12 725	13 629
Latvia					
Chloride	117	250	970	0	39
Lithuania					
Potassic fertilisers	8 939	5 752	2 846	18 714	6 517
Luxembourg					
Chloride	299	231	778	98	330
Netherlands					
Fertiliser salts	696	...	...	...	...
Sulphate	842	7 918	1 424	4 431	7 854
Chloride	152 423	170 921	147 436	133 012	174 453
Other potassic fertilisers	1 557	1 162	1 341	2 680	15 619
Norway					
Chloride	2 243	1 285	—	—	...
Poland					
Potassic fertilisers	3 130	2 202	9 222	13 279	10 687
Portugal					
Potassic fertilisers	42	80	240	402	612
Slovakia					
Potassic fertilisers	...	1 407	434	74	51
Spain					
Sulphate	1 245	1 795	1 251	2 540	6 474
Chloride	201 242	163 891	360 538	319 549	609 607
Other potassic fertilisers	257	998	1 895	1 352	2 365
Sweden					
Sulphate	10 191	84 414	53 883	59 252	93 796
Turkey					
Potassic fertilisers	148	488	3 544	6 438	6 533
United Kingdom					
Chloride (c)	* 497 700	* 220 600	* 244 300	* 205 600	* 339 000
Other potassic fertilisers	612	399	562	228	420

Note(s)

(a) K₂O content

(b) Including sulphate, chloride and other potassic fertilisers

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

Imports of potash

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Fertiliser salts	23 423	...	...	...	...
Sulphate	17 797	13 026	10 432	4 241	15 074
Chloride	133 514	123 747	119 347	28 000	105 299
Other potassic fertilisers	3 199	26 199	25 862	9 139	18 201
Belgium					
Fertiliser salts	2 628	...	...	...	...
Sulphate	124 454	128 173	175 205	73 074	129 152
Chloride	999 362	912 264	912 154	428 365	1 173 213
Other potassic fertilisers	6 667	10 275	10 125	7 668	13 668
Bulgaria					
Potassic fertilisers	9 102	4 845	4 633	1 970	7 985
Croatia					
Chloride	149 424	159 288	157 994	10 538	132 471
Other potassic fertilisers	3 594	3 564	2 958	1 091	1 749
Czech Republic					
Chloride	43 238	32 745	28 052	36 125	82 710
Other potassic fertilisers	3 475	4 215	5 025	2 430	4 773
Denmark					
Sulphate	4 778	6 077	1 878	1 019	1 910
Chloride	106 772	34 292	47 885	4 917	36 608
Other potassic fertilisers	13 150	13 742	24 438	11 052	14 967
Estonia					
Chloride	11 173	7 048	8 665	1	1 517
Finland					
Chloride (a)	161 400	163 600	164 400	84 600	194 800
Other potassic fertilisers	390	663	184	74	117
France					
Fertiliser salts	712	...	...	...	...
Sulphate	33 195	58 088	53 124	12 477	51 068
Chloride	777 056	900 560	837 119	242 713	626 635
Other potassic fertilisers	11 432	16 601	18 484	7 287	13 998
Germany					
Sulphate	5 414	17 108	11 801	13 194	20 786
Chloride	62 917	101 081	124 643	75 154	131 645
Other potassic fertilisers	809	1 344	2 503	633	8 065
Greece					
Sulphate	44 049	37 785	36 642	14 325	39 155
Chloride	36 887	22 518	28 144	20 773	35 176
Other potassic fertilisers	9 682	6 189	8 660	107	3 240
Hungary					
Chloride	133 764	168 692	181 373	38 441	90 063
Other potassic fertilisers	3 180	5 863	4 552	4 372	5 760
Ireland, Republic of					
Chloride	125 803	122 191	97 056	29 932	99 181
Other potassic fertilisers	4 566	1 785	4 347	3 390	7 570
Italy					
Sulphate	91 061	90 992	78 513	31 910	88 593
Chloride	302 115	396 162	346 465	144 086	367 465
Other potassic fertilisers	17 583	15 929	9 882	3 413	8 415
Latvia					
Chloride	9 489	8 875	10 845	—	6 414
Lithuania					
Sulphate	10 439	15 637	10 971	2 617	2 581
Chloride	143 499	138 895	107 749	6 631	32 552
Other potassic fertilisers	6 200	190	487	87	4
Luxembourg					
Potassic fertilisers	2 156	940	2 048	801	1 681
Netherlands					
Sulphate	24 658	21 211	17 393	28 984	21 982
Chloride	265 838	314 011	307 612	204 377	430 138
Other potassic fertilisers	5 283	6 691	3 899	3 466	1 542
Norway					
Sulphate	266 149	241 918	190 757	123 549	(a)* 93 000
Chloride	307 422	349 459	349 459	199 385	(a)* 377 000
Other potassic fertilisers	710	659	674	509	612

Potash

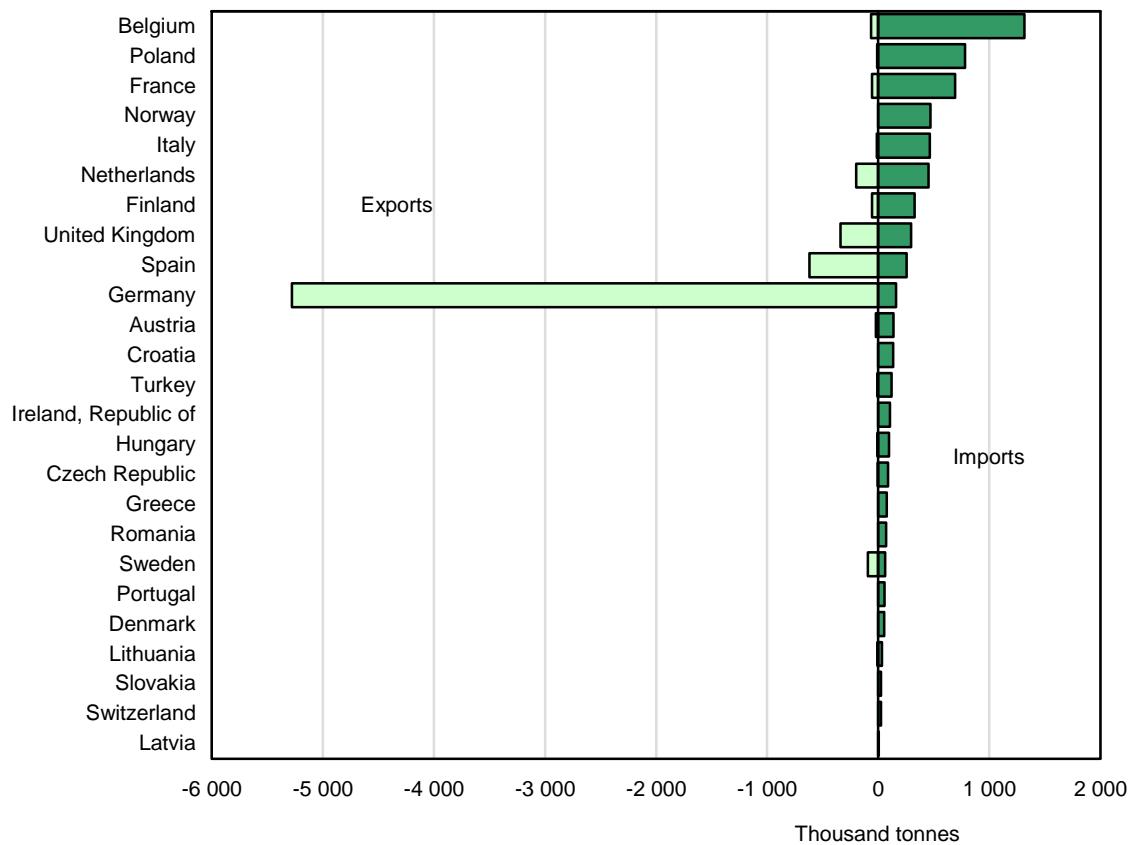
Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Poland					
Fertiliser salts	1 066	...	...	...	...
Sulphate	14 517	20 242	19 161	10 919	19 155
Chloride	770 674	992 979	815 282	194 900	757 987
Other potassic fertilisers	4 110	4 659	7 143	3 470	4 442
Portugal					
Sulphate	3 227	4 223	1 869	1 574	3 840
Chloride	58 237	51 600	38 200	25 525	50 687
Other potassic fertilisers	2 141	1 629	1 708	5 389	1 899
Romania					
Sulphate	6 361	4 086	5 133	19 592	13 726
Chloride	35 384	50 558	68 877	5 119	56 922
Other potassic fertilisers	491	1 058	338	374	425
Slovakia					
Chloride	31 791	29 828	29 496	4 597	22 561
Other potassic fertilisers	1 752	2 601	2 366	689	2 913
Spain					
Sulphate	10 412	5 547	40 911	21 022	40 507
Chloride	224 320	199 403	194 656	71 444	211 595
Other potassic fertilisers	86	25	3 548	3 721	1 607
Sweden					
Sulphate	10 191	1 004	2 872	965	1 789
Chloride	44 941	27 470	15 689	4 769	55 671
Other potassic fertilisers	4 109	4 886	4 735	4 211	5 858
Switzerland					
Sulphate	4 215	5 259	4 685	3 967	4 914
Chloride	18 811	19 279	15 158	7 595	16 865
Other potassic fertilisers	2 555	2 504	2 861	1 676	2 049
Turkey					
Sulphate	19 373	57 661	33 427	11 576	34 986
Chloride	78 671	96 038	82 412	50 634	82 923
Other potassic fertilisers	146	47	398	303	1 075
United Kingdom					
Fertiliser salts	10 696	...	...	...	...
Sulphate	14 274	16 166	15 157	15 766	15 766
Chloride	170 942	202 623	165 331	80 842	270 096
Other potassic fertilisers	1 310	10 813	11 919	10 422	10 565

Note(s)

(a) K₂O content

Potash - EU34 trade in 2010

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 and electric vehicles, 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 EU34 production, thus Europe is entirely import dependent.

Exports of rare earths

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metals	333	359	373	244	258
Cerium compounds	1 569	2 596	2 702	2 035	1 936
Other rare earth compounds	5 911	9 039	8 508	8 437	8 658
Belgium					
Metals	444	253	299	273	476
Rare earth compounds	302	802	408	335	332
Czech Republic					
Cerium compounds	8	6	3	3	3
Other rare earth compounds	5	6	5	0	3
Denmark					
Metals	0	4	2	—	...
Estonia					
Metals	1	1	1	1	1
Rare earth compounds	6 819	3 183	2 916	2 679	1 686
Finland					
Metals	...	104	...	—	—
Rare earth compounds	1	1	103	0	44
France					
Metals	24	11	11	3	8
Rare earth compounds	2 185	2 545	1 854	1 244	3 411
Ferro-cerium & other pyrophoric alloys	85	133	—	0	...
Germany					
Metals	1	8	3	19	25
Rare earth compounds	145	217	188	652	601
Ireland, Republic of					
Rare earth compounds	73	8	9	7	1
Italy					
Metals	56	177	112	78	101
Rare earth compounds	43	38	153	167	236
Lithuania					
Cerium compounds	3	4	3	8	12
Netherlands					
Metals	16	64	202	* 135	86
Rare earth compounds	157	77	131	* 150	177
Ferro-cerium & other pyrophoric alloys	...	...	11 568	10 807	11 664
Norway					
Metals	59	0	1	105	—
Other rare earth compounds	...	1	21	21	30
Poland					
Cerium compounds	0	15	8	4	7
Other rare earth compounds	0	33	22	—	4
Slovenia					
Cerium compounds	...	2	1	1	2
Spain					
Cerium compounds	45	63	8	13	51
Other rare earth compounds	18	2	17	5	34
Switzerland					
Cerium compounds	2	2	1	1	2
Other rare earth compounds	7	3	1	26	1

Rare Earths

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
United Kingdom					
Metals	29	143	237	54	46
Cerium compounds	111	37	73	105	182
Other rare earth compounds	954	1 089	622	459	614
Ferro-cerium & other pyrophoric alloys	76	80	7	6	37

Note(s)

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

Imports of rare earths

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metals	403	512	561	269	550
Cerium compounds	2 009	3 431	3 487	1 985	1 766
Other rare earth compounds	2 618	3 762	3 589	2 471	3 375
Belgium					
Metals	443	297	259	323	411
Cerium compounds	280	489	258	419	323
Other rare earth compounds	138	353	142	292	172
Ferro-cerium & other pyrophoric alloys	5	2	3	62	2
Cyprus					
Ferro-cerium & other pyrophoric alloys	1	0	—	...	18
Czech Republic					
Metals	1	3	0	0	13
Rare earth compounds	227	228	155	124	131
Ferro-cerium & other pyrophoric alloys	6	4	5	5	6
Denmark					
Cerium compounds	1	1	11	734	15
Other rare earth compounds	41	30	10	36	19
Estonia					
Metals	10	...	...	...	* 6
Rare earth compounds	6 804	4 721	4 469	4 125	2 129
Finland					
Cerium compounds	117	92	101	57	72
Other rare earth compounds	21	5	7	9	8
France					
Metals	479	417	447	402	372
Cerium compounds	9 723	8 831	9 116	6 112	5 687
Other rare earth compounds	1 329	1 232	768	874	1 408
Ferro-cerium & other pyrophoric alloys	3	2	3	26	83
Germany					
Metals	369	410	430	106	459
Cerium compounds	975	901	673	448	1 006
Other rare earth compounds	7 024	9 748	10 192	7 755	9 999
Ferro-cerium & other pyrophoric alloys	3	7	6	2	10
Greece					
Metals	...	1	20	68	...
Ferro-cerium & other pyrophoric alloys	0	22	0	—	65
Hungary					
Rare earth compounds	146	242	116	60	68
Iceland					
Metals	...	—	85	87	350
Ferro-cerium & other pyrophoric alloys	98	112	86	88	...
Ireland, Republic of					
Rare earth compounds	7	23	21	67	8
Italy					
Metals	58	149	144	87	124
Cerium compounds	540	694	710	414	597
Other rare earth compounds	313	452	431	258	303
Ferro-cerium & other pyrophoric alloys	1	2	2	5	10

Rare Earths

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Lithuania					
Rare earth compounds	52	3	8	3	14
Luxembourg					
Ferro-cerium & other pyrophoric alloys	...	...	...	...	11
Malta					
Metals	...	...	...	12	...
Netherlands					
Metals	135	100	261	* 200	48
Cerium compounds	290	473	278	71	88
Other rare earth compounds	2 781	3 868	2 766	* 1 100	568
Ferro-cerium & other pyrophoric alloys	3	3	4	6	2
Norway					
Metals	686	738	341	24	148
Poland					
Metals	7	1	—	2	5
Cerium compounds	109	85	148	43	134
Other rare earth compounds	74	63	58	16	48
Portugal					
Metals	5	0	0	...	1
Rare earth compounds	46	115	20	12	11
Romania					
Rare earth compounds	8	9	6	5	5
Slovakia					
Rare earth compounds	8	8	5	8	8
Slovenia					
Metals	96	139	88	55	98
Rare earth compounds	27	4	3	2	3
Spain					
Metals	84	95	274	108	421
Cerium compounds	572	580	444	443	543
Other rare earth compounds	260	255	270	140	216
Ferro-cerium & other pyrophoric alloys	29	40	15	19	41
Sweden					
Metals	37	74	46	28	37
Rare earth compounds	20	56	68	54	54
Switzerland					
Rare earth compounds	38	34	34	30	47
Ferro-cerium & other pyrophoric alloys	...	...	6	44	...
Turkey					
Metals	0	8	9	9	14
Rare earth compounds	117	183	360	204	246
Ferro-cerium & other pyrophoric alloys	...	...	12	10	...
United Kingdom					
Metals	88	88	133	99	119
Cerium compounds	1 615	2 167	2 067	612	1 119
Other rare earth compounds	600	664	251	103	322
Ferro-cerium & other pyrophoric alloys	60	77	57	148	150

Note(s)

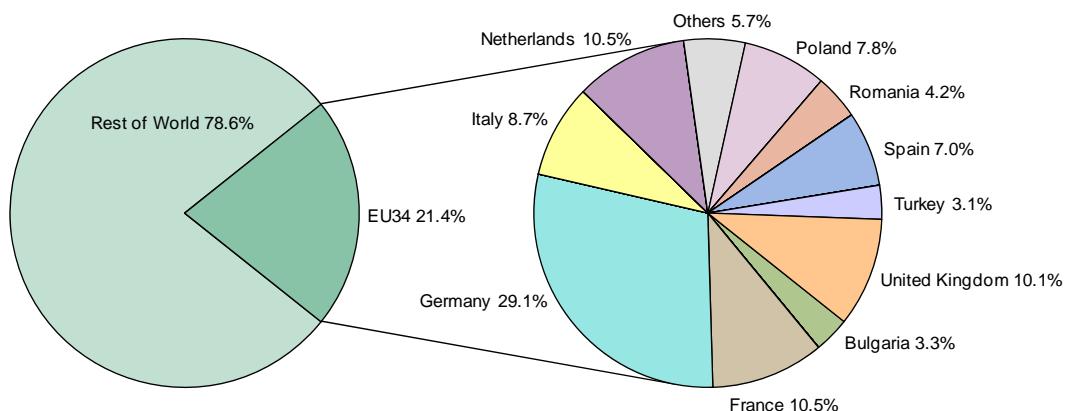
(1) Rare earths are here taken to include yttrium and scandium

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 2010 the largest producer was China (23.5 per cent of the world's total). The EU34 countries contributed 21.4 per cent to the world's total and the largest producer in the EU34 was Germany (29.1 per cent of total EU34 production).

EU34 Production of salt 2010



Production of salt

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Rock salt	1 336	1 172	503	50	95
Salt in brine	764 103	735 724	866 674	1 035 044	1 071 842
Bulgaria	2 000 000	2 000 000	2 100 000	1 300 000	1 900 000
Croatia	29 589	32 536	54 937	57 186	66 835
Denmark	608 282	557 917	496 593	511 063	601 046
France	9 371 000	6 139 840	* 6 000 000	6 100 000	* 6 000 000
Germany					
Rock salt	9 280 000	4 826 000	5 545 438	7 709 844	9 992 156
Brine salt	1 001 000	1 010 000	989 208	1 862 630	2 118 484
Salt in brine	7 189 000	7 558 000	7 306 745	* 7 300 000	* 4 500 000
Greece	* 200 000	212 000	* 220 000	* 189 000	* 190 000
Italy					
Rock salt & brine salt	2 823 960	2 214 133	2 334 315	3 471 206	4 973 533
Montenegro					
Sea salt	5 000	20 000	25 200	17 000	11 200
Netherlands	6 056 000	6 177 000	6 200 000	5 967 000	5 982 000
Poland					
Rock salt	1 129 875	591 240	618 111	988 545	1 235 533
Brine salt	2 899 076	2 930 726	2 783 198	2 533 413	2 464 363
Other salt	808 247	785 694	706 618	763 385	763 515
Portugal					
Rock salt	586 190	590 588	606 545	594 578	618 961
Sea salt	76 858	64 048	69 249	72 325	44 574
Romania	2 621 129	2 475 349	2 526 774	2 072 744	2 388 357
Slovakia	122 500	117 000	109 510	41 000	—
Slovenia	1 624	3 029	535	2 924	59
Spain					
Rock salt	2 809 046	2 709 545	2 909 907	2 763 081	2 650 940
Sea salt	1 506 343	1 332 360	1 290 672	1 338 789	1 242 718
Other salt	115 826	102 524	102 149	99 853	92 644
Switzerland	525 000	353 000	368 000	554 000	643 000

Salt

Production continued

tonnes

Country	2006	2007	2008	2009	2010
Turkey					
Sea salt	* 500 000	* 500 000	* 500 000	* 500 000	* 500 000
Other salt	* 1 200 000	1 385 822	1 367 981	* 1 300 000	* 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 (a)	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000	* 2 800 000
EU34 Total	60 000 000	51 200 000	51 900 000	54 900 000	57 200 000

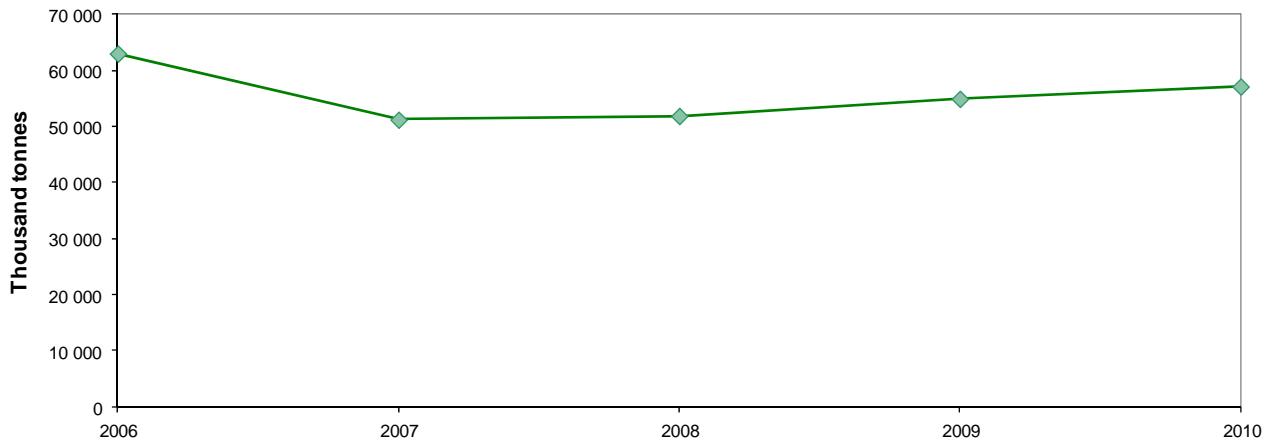
Note(s)

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

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

(a) Used for purposes other than salt-making

EU34 Production of salt 2006 - 10



Exports of salt

tonnes

Country	2006	2007	2008	2009	2010
Austria	202 465	235 775	388 681	491 981	500 126
Belgium	94 195	55 134	61 012	125 255	288 679
Bulgaria	16 020	13 943	8 239	2 689	1 078
Croatia	9 759	3 986	4 530	9 995	20 721
Cyprus	521	769	956	2 910	7 929
Czech Republic	30 648	18 760	14 116	31 068	51 289
Denmark	115 980	261 895	265 036	333 383	319 317
Estonia	572	429	121	277	2 055
Finland	531	424	336	336	11 380
France	254 487	363 438	231 953	277 617	297 909
Germany	3 943 083	2 787 088	2 782 861	2 744 985	3 097 654
Greece	62 896	37 232	48 908	47 406	59 655
Hungary	45 215	1 459	1 388	3 434	1 356
Iceland	2 647	5 934	3 718	2 115	1 093
Ireland, Republic of	2 492	3 867	8 783	735	10 183
Italy	361 602	212 223	322 221	558 441	919 673
Latvia	14 485	14 282	13 741	15 919	23 172
Lithuania	7 150	6 761	6 063	5 437	19 031
Luxembourg	1 533	74	219	220	1 072
Macedonia	4 508	5 091	3 255	3 616	2 666
Montenegro	3 247	2 265	3 505	3 776	14 316
Netherlands	4 126 810	4 055 898	3 878 601	* 3 412 200	3 456 740
Norway	9 040	4 178	4 833	14 998	12 609

Exports continued

tonnes

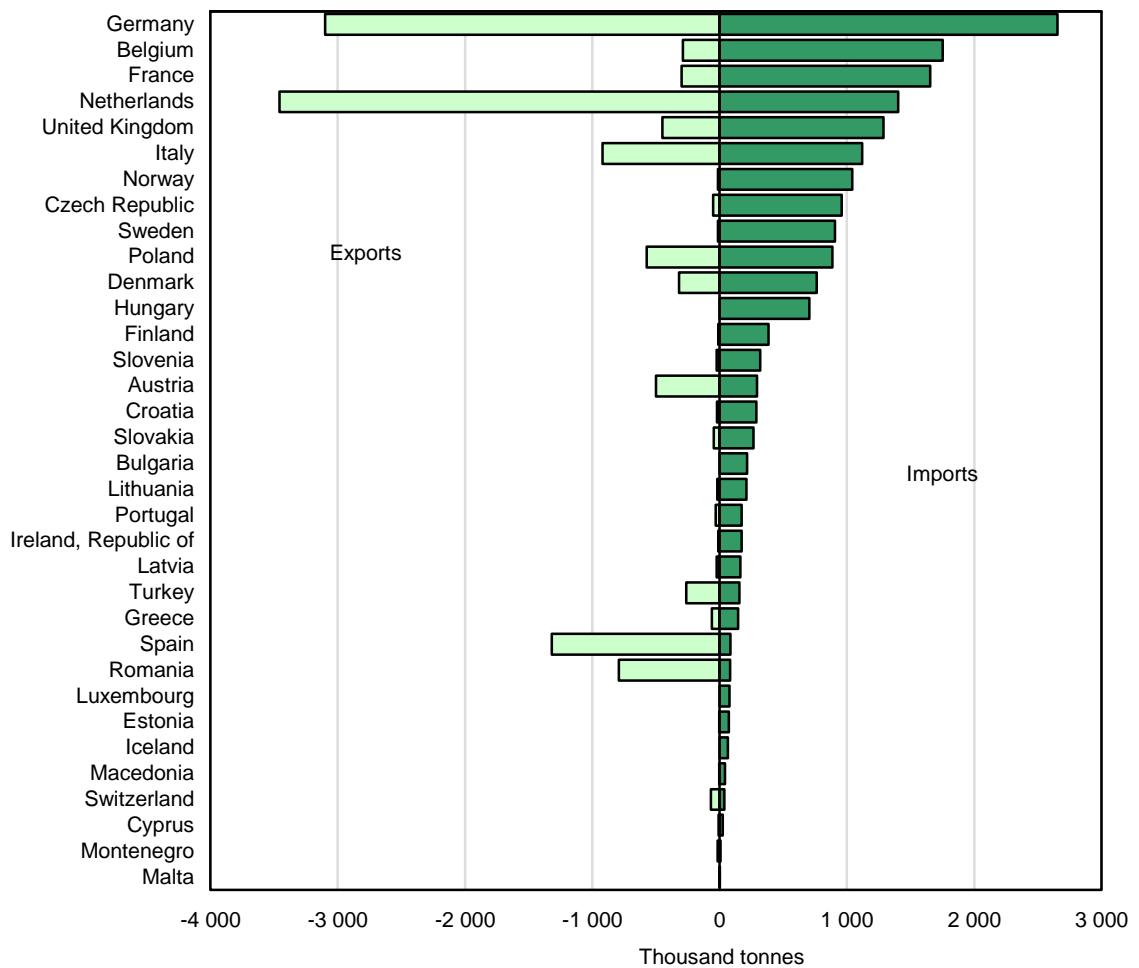
Country	2006	2007	2008	2009	2010
Poland	498 345	345 335	361 691	503 899	572 595
Portugal	11 872	25 341	13 412	15 662	31 022
Romania	503 629	506 641	486 040	372 501	790 530
Slovakia	51 566	51 517	62 133	4 606	45 056
Slovenia	20 702	18 280	20 590	15 671	21 711
Spain	743 390	463 791	646 288	862 994	1 318 019
Sweden	9 357	12 601	10 444	10 025	12 742
Switzerland	62 318	55 916	37 772	68 947	67 537
Turkey	17 095	11 164	27 393	26 223	262 050
United Kingdom	557 311	514 868	873 708	449 303	450 246

Imports of salt

tonnes

Country	2006	2007	2008	2009	2010
Austria	429 515	143 538	105 335	230 979	293 799
Belgium	2 275 674	1 209 879	1 174 539	1 319 896	1 751 650
Bulgaria	181 801	71 848	103 007	102 272	215 355
Croatia	193 911	104 066	176 408	197 644	287 609
Cyprus	13 647	12 208	13 445	16 822	23 836
Czech Republic	1 151 331	567 960	610 149	711 374	958 474
Denmark	520 735	230 787	213 931	421 109	762 420
Estonia	78 483	72 445	72 149	73 931	73 254
Finland	401 961	409 761	397 033	417 495	384 089
France	1 024 789	592 976	578 882	918 448	1 653 101
Germany	2 591 036	2 476 738	2 319 273	1 867 023	2 654 736
Greece	277 940	177 719	134 557	149 094	144 367
Hungary	662 455	514 119	510 287	535 928	704 143
Iceland	96 212	100 169	113 142	98 207	65 342
Ireland, Republic of	96 164	89 236	105 636	114 659	172 053
Italy	863 836	611 435	572 965	902 241	1 119 583
Latvia	149 696	123 316	144 424	151 529	163 486
Lithuania	197 262	171 915	166 505	159 534	209 506
Luxembourg	68 116	21 104	45 882	51 132	77 304
Macedonia	40 184	35 657	37 575	39 232	42 011
Malta	1 629	3 590	3 794	1 364	1 682
Montenegro	11 085	13 670	4 814	10 402	6 470
Netherlands	1 150 949	193 457	167 508	* 253 000	1 404 032
Norway	1 026 541	988 001	1 075 905	959 630	1 042 489
Poland	582 080	313 297	356 929	483 243	886 294
Portugal	110 581	169 480	94 501	108 161	172 107
Romania	113 585	111 681	92 815	82 569	81 441
Slovakia	299 087	182 234	189 268	168 211	266 329
Slovenia	232 017	148 352	190 017	239 191	317 999
Spain	37 632	33 691	97 348	81 729	85 807
Sweden	1 054 982	744 328	875 294	910 606	905 190
Switzerland	19 300	8 913	8 988	70 386	37 731
Turkey	285 694	35 382	257 146	99 400	154 536
United Kingdom	246 879	237 772	237 288	410 434	1 288 253

Salt - EU34 trade in 2010



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 2010, 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 but accurate production data are not available. The only producer in the EU34 is France.

Production of sillimanite minerals

tonnes

Country	2006	2007	2008	2009	2010
France					
Andalusite	* 65 000	* 65 000	* 65 000	* 65 000	* 65 000

Note(s)

- (1) A number of other countries produce sillimanite minerals but details of output are not reported
- (2) In addition to the countries listed above as producing sillimanite minerals, synthetic mullite is known to be produced in Germany and Hungary
- (3) Production capacity for synthetic mullite also exists in the United Kingdom but output is believed to be zero.

Exports of sillimanite minerals

tonnes

Country	2006	2007	2008	2009	2010
Belgium	48 825	47 141	62 423	39 809	53 940
France	59 002	66 776	66 242	38 494	49 011
Germany	13 257	16 143	18 231	7 965	13 379
Hungary					
Mullite	6 870	(a)* 7 500	(a)* 7 100	(a)* 3 300	(a)* 6 800
Netherlands	7 679	9 689	10 848	5 602	6 907
United Kingdom	1 925	2 430	2 076	1 414	1 378

Note(s)

- (1) 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	2006	2007	2008	2009	2010
Austria	2 100	3 160	2 639	1 353	2 089
Belgium	50 726	52 898	68 985	40 981	55 070
Czech Republic	6 765	5 601	6 686	4 717	4 440
Denmark	3 023	3 377	2 482	2 598	4 323
France	4 813	6 026	6 255	4 536	5 773
Germany	80 183	109 961	79 668	39 511	95 513
Greece	62	734	2 662	505	44
Hungary	3 001	3 428	4 004	2 541	3 448
Italy	26 304	24 807	30 616	45 172	30 614
Netherlands	24 195	17 488	24 457	4 189	188 698
Norway	2 288	3 404	2 702	4 359	3 456
Poland					
Sillimanite minerals	21 196	23 321	16 975	7 852	17 956
Mullite	2 012	4 956	3 728	1 040	2 109
Portugal	192	293	646	573	466
Slovakia	2 069	3 299	1 919	1 812	2 456
Spain	22 102	27 792	34 909	21 648	32 545

Sillimanite minerals

Imports continued

Country	2006	2007	2008	2009	2010	tonnes
Sweden	5 568	6 381	5 212	2 395	4 782	
Switzerland	463	1 035	1 128	527	1 162	
Turkey	2 939	6 987	9 535	8 526	18 141	
United Kingdom						
Sillimanite minerals	10 268	10 239	11 920	7 763	7 419	
Mullite	7 468	12 036	6 488	5 255	8 276	

Note(s)

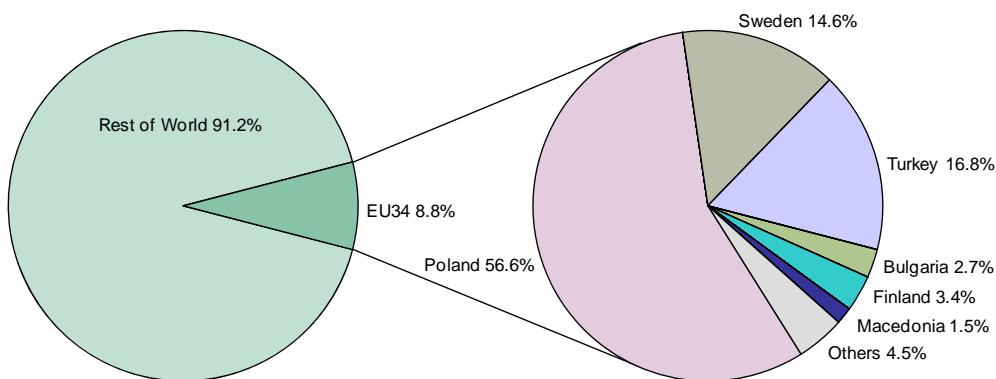
(1) In this table 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

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 2010, Mexico overtook Peru to become the world's largest producer, with China in third place. Together these three countries accounted for 49 per cent of world production. The EU34 countries together contributed nearly nine per cent to the world total. The largest EU34 producer was Poland (57 per cent of EU34 production and five per cent of world production).

EU34 Mine production of silver 2010



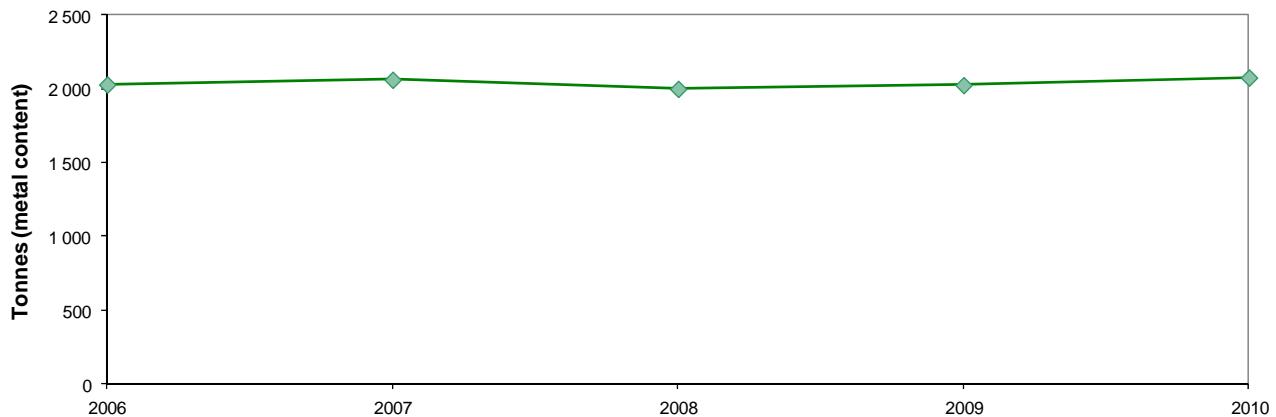
Mine production of silver

kilograms (metal content)

Country	2006	2007	2008	2009	2010
Bulgaria	* 65 000	* 55 000	* 55 000	* 55 000	* 55 000
Finland	50 843	44 895	69 906	69 600	69 600
Greece	24 700	38 300	33 500	27 500	29 000
Ireland, Republic of	12 900	9 650	7 172	5 267	4 061
Macedonia	* 10 000	* 30 000	* 40 000	* 35 000	* 32 000
Poland	1 265 100	1 199 500	1 161 000	1 150 000	1 175 000
Portugal	20 078	26 514	26 273	20 483	20 561
Romania	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Slovakia	74	50	198	201	320
Spain	2 369	—	—	2 200	20 800
Sweden	292 255	323 171	293 068	288 590	302 145
Turkey	* 266 000	* 315 000	* 294 000	351 600	348 000
United Kingdom	—	212	398	514	506
EU34 Total	2 027 000	2 060 000	1 999 000	2 024 000	2 075 000

Silver

EU34 Mine production of silver 2006 - 10



Exports of silver

kilograms

Country	2006	2007	2008	2009	2010
Austria					
Metal	120 400	115 100	95 000	98 600	100 300
Belgium					
Ores & concentrates	8 000	47 600	33 100	6 200	12 300
Metal	872 103	31 000	41 900	69 900	21 800
Bulgaria					
Metal	...	49 468	36 516	58 565	37 300
Czech Republic					
Metal	98 354	102 968	117 325	77 000	74 600
Denmark					
Metal	24 299	43 775	18 782	37 200	30 300
Estonia					
Metal	26	9	13	955	200
Finland					
Ores & concentrates	262 669	700	38	—	—
Metal	6 041	3 400	3 400	1 680	1 162
France					
Ores & concentrates	...	26 500	51 100	1 597 157	—
Metal	228 673	208 832	215 148	169 806	258 205
Germany					
Metal	2 995 900	2 884 200	3 012 400	2 169 994	3 397 674
Greece					
Metal	3 325	8 300	7 400	79 400	19 700
Hungary					
Metal	395	527	139	1 300	3 300
Ireland, Republic of					
Ores & concentrates	...	2 560	—	—	...
Italy					
Metal	516 281	547 042	519 148	383 782	715 501
Lithuania					
Metal	300	61	600	200	1 100
Luxembourg					
Metal	165	200	100	—	—
Netherlands					
Ores & concentrates	26 860	...	18 000	...	1 458
Metal	151 077	144 024	208 300	196 180	216 182
Norway					
Metal	52 952	45 461	59 381	58 979	57 617
Poland					
Metal	519 800	1 148 300	1 121 900	1 265 200	1 281 800
Portugal					
Ores & concentrates	...	4 000	13 500	11 500	12 300
Metal	411	218	7 876	580	3 400

Silver

Exports continued

kilograms

Country	2006	2007	2008	2009	2010
Slovakia					
Metal	3 430	35 036	6 061	2 700	39 100
Slovenia					
Metal	3 100	5 200	8 800	1 600	3 100
Spain					
Ores & concentrates	...	1 608	—	30	377
Metal	7 915	13 637	379 675	233 084	417 381
Sweden					
Ores & concentrates	...	59 400	...	—	...
Metal	368 000	364 500	521 200	476 300	412 900
Switzerland					
Metal	930 397	1 201 402	1 444 198	916 560	1 456 475
Turkey					
Metal	8 932	10 700	20 897	170 009	144 942
United Kingdom					
Ores & concentrates	...	1 627	192	1 338	2 035
Metal	1 069 383	2 317 951	6 071 009	943 522	2 579 909

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	2006	2007	2008	2009	2010
Austria					
Metal	168 300	151 600	441 900	431 500	481 800
Belgium					
Ores & concentrates	536 600	195 900	253 700	1 567 600	6 000 300
Metal	258 700	418 100	351 300	225 700	86 500
Bulgaria					
Metal	...	10 521	2 189	871	2 408
Croatia					
Metal	5 043	3 684	3 293	2 353	3 212
Cyprus					
Metal	2 866	3 746	2 863	1 993	1 200
Czech Republic					
Ores & concentrates	...	...	...	5 700	990 200
Metal	602 527	647 818	1 557 076	163 316	136 000
Denmark					
Metal	26 104	62 049	51 992	1 873 817	612 600
Estonia					
Metal	10 100	3 100	5 800	2 900	3 200
Finland					
Metal	64 504	55 400	44 800	(a)* 47 900	50 681
France					
Ores & concentrates	16 300	39 800	21 300	4 279	4 433 810
Metal	734 679	643 280	544 821	435 001	954 773
Germany					
Ores & concentrates	1 323 500	859 400	6 024 500	2 581 290	4 002 438
Metal	2 227 600	2 565 300	2 668 900	1 784 960	2 322 566
Greece					
Metal	46 241	1 039 000	276 100	31 300	29 900
Hungary					
Metal	206 137	14 581	8 354	128 985	196 500
Iceland					
Metal	763	1 388	858	1 096	909
Ireland, Republic of					
Ores & concentrates	18 974	1 270	385	41	...
Metal	5 147	1 045	29 530	5 316	3 999
Italy					
Ores & concentrates	67 952	1 002	—	15	70 440
Metal	1 583 508	1 445 303	1 167 457	881 205	1 120 080

Silver

Imports continued

kilograms

Country	2006	2007	2008	2009	2010
Latvia					
Metal	16	1 450	1 174	556	791
Lithuania					
Metal	4 500	5 200	6 900	5 800	6 300
Luxembourg					
Metal	18 344	26 083	7 061	3 738	24 304
Macedonia					
Metal	3 901	3 612	3 807	2 229	3 294
Malta					
Metal	1 465	783	5 455	1 090	128
Netherlands					
Metal	263 049	229 637	265 925	218 279	304 219
Norway					
Ores & concentrates (a)	* 8 200	* 59 000	* 200	* 5 700	* 1 100
Metal	64 511	62 077	67 398	47 040	57 422
Poland					
Metal	28 800	77 000	95 200	122 900	106 700
Portugal					
Metal	36 450	30 616	22 678	18 602	66 900
Romania					
Metal (a)	* 18 600	* 7 700	* 9 400	* 8 800	* 27 500
Slovakia					
Metal	6 400	12 200	8 200	9 000	55 300
Slovenia					
Metal	19 700	27 800	45 000	17 800	24 100
Spain					
Ores & concentrates	56 421	58 344	75 633	66 088	11 317
Metal	134 673	126 668	1 547 747	754 262	1 513 257
Sweden					
Ores & concentrates	...	21 000	(a)* 2 455 700	2 330 100	...
Metal	137 000	162 900	122 200	85 300	83 700
Switzerland					
Ores & concentrates (a)	* 792 000	* 39 800	* 9 600	* 100 900	* 55 100
Metal	1 306 866	849 037	1 520 531	2 136 092	1 746 243
Turkey					
Metal	108 588	996 239	154 639	57 700	90 064
United Kingdom					
Ores & concentrates	249	8 283	8 332	1 106	9 737
Metal	7 316 639	3 635 563	3 943 638	6 649 190	3 278 015

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

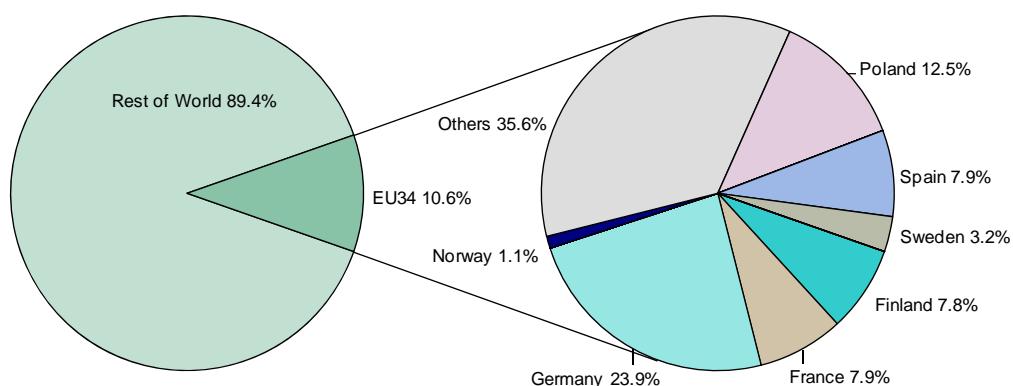
(a) BGS estimates, based on known exports from certain countries

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 2010 were the USA (14.7 per cent of world total), Canada (11.1 per cent) and Russia (10.9 per cent). The largest world producer of pyrites and sulphur ore was China (with 92 per cent and 94 per cent respectively of the world's total). In the EU34 the largest producer of recovered sulphur was Germany (23.9 per cent of EU34 production).

EU34 Production of sulphur and pyrites 2010



In this graph "Others" includes Belgium, Bulgaria, Greece, Italy, the Netherlands, Turkey and the United Kingdom in addition to those countries that produced less than one per cent of the EU34 total.

Production of sulphur and pyrites

tonnes (sulphur content)

Country	2006	2007	2008	2009	2010
Austria					
Recovered (a)	50 097	50 501	48 024	48 624	40 512
Denmark					
Recovered (a)	4 142	3 896	3 467	4 200	3 246
Finland					
Pyrites	199 700	194 400	226 000	153 600	250 000
Recovered (b)	325 793	* 326 000	331 000	273 600	272 000
Recovered (a)	70 000	125 000	117 000	127 000	122 000
France					
Recovered (a)	616 234	605 820	* 590 000	590 000	570 000
Germany					
Recovered (a)	1 706 200	1 650 100	1 578 000	1 504 000	1 455 000
Recovered (c)	42 500	35 900	39 000	565 000	513 000
Lithuania					
Recovered (a)	61 135	42 618	73 870	69 722	73 470
Norway					
Recovered (b)	* 110 000	* 95 000	* 95 000	* 90 000	69 000
Recovered (a)	20 000	18 000	28 000	25 000	22 000
Poland					
Frasch	800 200	833 583	762 119	262 769	516 742
Recovered (b)	308 000	304 000	294 000	257 000	* 264 000
Recovered (a)	203 100	211 900	222 800	214 382	250 075
Spain					
Recovered (b)	547 000	543 000	551 000	533 000	547 000
Recovered (a)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Sweden					
Recovered (b)	180 000	177 000	199 600	186 100	179 833
Recovered (a)	68 391	66 569	84 456	83 646	83 947

Sulphur and Pyrites

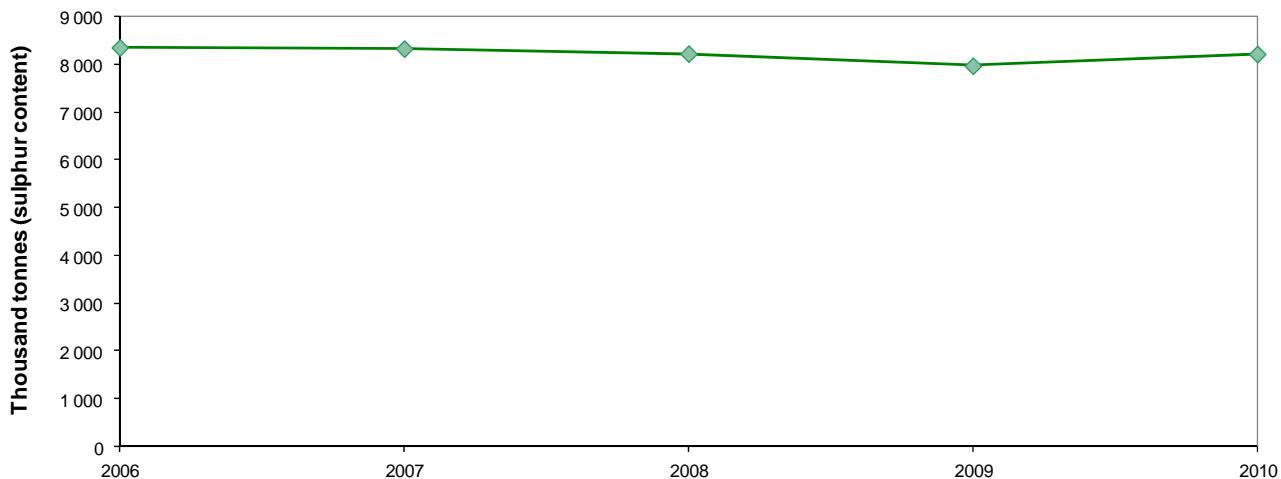
Production continued	tonnes (sulphur content)				
Country	2006	2007	2008	2009	2010
Other EU34 Countries (all forms)	2 868 000	2 886 000	2 819 000	2 820 000	2 809 000
EU34 Total					
Pyrites	259 000	255 000	305 000	233 000	329 000
Frasch	800 000	834 000	762 000	263 000	517 000
Recovered	7 297 000	7 242 000	7 159 000	7 478 000	7 373 000

Note(s)

(1) Other Europe includes: Belgium, Bulgaria, Croatia, Czech Republic, Greece, Hungary, Italy, Netherlands, Portugal, Romania, Slovakia, Turkey and the United Kingdom

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

EU34 Production of sulphur and pyrites 2006 - 10



Exports of sulphur and pyrites

Country	2006	2007	2008	2009	2010
Austria					
Pyrites	2 881	2 645	2 672	1 740	2 794
Sulphur	225	3 006	3 292	472	90
Sulphur, sublimed & precipitated	4 881	492	3 906	7 423	1 145
Belgium					
Sulphur	38 494	18 391	75 305	74 232	21 533
Sulphur, sublimed & precipitated	465	531	368	345	193
Bulgaria					
Sulphur	31 737	33 039	28 993	20 840	40 286
Croatia					
Sulphur	6 606	8 614	7 604	8 664	6 565
Czech Republic					
Sulphur	11 718	5 579	16 670	20 153	12 124
Finland					
Pyrites (a)	* 73 000	* 90 000	* 386 000	* 88 000	* 198 000
Sulphur	3 674	3 513	2 521	35 701	2 715
France					
Sulphur	294 003	59 934	246 005	313 229	296 345
Sulphur, sublimed & precipitated	619	680	2 843	445	565
Germany					
Pyrites	486	741	485	320	755
Sulphur	796 341	828 544	654 808	681 563	671 836

Sulphur and Pyrites

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Greece					
Pyrites	16 495	73 606	63 893	24 429	28 680
Sulphur	43 773	52 668	16 345	4 044	4 594
Hungary					
Sulphur	34 850	43 178	43 649	39 638	44 098
Italy					
Pyrites	8 646	8 024	10 071	6 005	13 698
Sulphur	290 353	263 362	219 095	256 614	286 954
Sulphur, sublimed & precipitated	36 881	39 061	4 693	21 430	22 485
Lithuania					
Sulphur	1	7	1 517	14 038	1 227
Netherlands					
Pyrites	82 883	102 300	132 802	10 039	56 610
Sulphur	436 669	460 352	850 183	36 898	480 968
Norway					
Sulphur	20	3 325	—	—	1
Poland					
Sulphur	478 736	555 603	446 202	152 484	402 102
Sulphur, sublimed & precipitated	18 426	26 376	27 041	29 540	34 752
Portugal					
Sulphur	9 747	15 410	7 539	5 737	6 164
Sulphur, sublimed & precipitated	500	1	136	15	—
Romania					
Pyrites	73	0	994	6 315	8
Sulphur	43 255	45 579	59 030	49 052	55 961
Slovakia					
Sulphur, sublimed & precipitated	63 019	75 817	71 373	72 613	72 910
Spain					
Sulphur	76 771	77 220	116 213	198 585	138 168
Sweden					
Sulphur	12 071	5 168	5 525	3 018	2 768
Sulphur, sublimed & precipitated	5 719	10 959	13 128	12 242	11 564
Turkey					
Sulphur	152	7 091	21 289	6 495	279 822
Sulphur, sublimed & precipitated	170	15 376	17 259	14 769	21 068
United Kingdom					
Sulphur, crude	113	8 207	13 182	2 545	41 491
Sulphur, refined	643	15 268	27 872	38 723	1 198
Sulphur, sublimed & precipitated	1 312	624	1 144	1 902	1 349

Note(s)

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

Imports of sulphur and pyrites

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Pyrites	3 537	3 809	3 754	1 614	3 154
Sulphur	70 350	84 659	89 038	68 881	75 065
Sulphur, sublimed & precipitated	10 850	5 556	17 842	14 961	15 331
Belgium					
Sulphur	574 515	503 523	611 170	460 990	592 348
Sulphur, sublimed & precipitated	156	311	1 852	750	621
Bulgaria					
Sulphur	767	1 039	487	162	161
Croatia					
Pyrites	122	75	32	124	72
Sulphur	86 431	71 965	98 785	10 349	2 877
Sulphur, sublimed & precipitated	3 492	2 425	4	51	105
Cyprus					
Sulphur	893	995	895	1 011	951

Sulphur and Pyrites

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Czech Republic					
Pyrites	223	281	1 576	299	250
Sulphur	40 147	55 196	43 473	20 986	14 762
Sulphur, sublimed & precipitated	70 555	57 410	65 242	71 033	82 355
Denmark					
Sulphur	2 335	204	2 082	4 447	7 051
Finland					
Sulphur	11 925	415	9 073	1 673	21 676
France					
Pyrites	2 533	160	173	159	183
Sulphur	72 785	56 072	50 092	55 212	78 366
Sulphur, sublimed & precipitated	2 439	797	5 861	403	410
Germany					
Pyrites	76 343	92 569	109 955	52 641	76 101
Sulphur	31 267	51 785	53 602	38 246	44 103
Sulphur, sublimed & precipitated	1 363	2 007	2 964	2 856	1 649
Greece					
Pyrites	31 906	94 621	40 754	3	1
Sulphur	3 933	35 625	42 733	26 673	42 673
Hungary					
Sulphur	(a)* 1 200	(a)* 1 200	2 105	(a)* 1 200	3 189
Sulphur, sublimed & precipitated	326	174	586	186	119
Ireland, Republic of					
Sulphur, sublimed & precipitated	2 486	887	305	74	17
Italy					
Pyrites	17 741	14 879	20 984	228	13 538
Sulphur	11 691	16 271	48 618	13 305	19 263
Sulphur, sublimed & precipitated	375	414	2 711	3 617	758
Latvia					
Sulphur	7	8	9	12 488	24
Lithuania					
Sulphur	320 658	317 678	293 365	319 353	326 485
Sulphur, sublimed & precipitated	607	0	404	18	1
Luxembourg					
Sulphur	1 157	3 139	5 771	2 981	2 166
Netherlands					
Pyrites	109	80	145 627	2 119	48
Sulphur	23 928	38 189	55 173	11 430	49 399
Norway					
Sulphur	11 983	5 224	4 690	3 102	2 897
Sulphur, sublimed & precipitated	5 571	10 790	12 932	12 127	11 515
Poland					
Pyrites	5 065	1 582	5 768	813	1 866
Sulphur	83 432	74 805	104 300	35 350	44 939
Sulphur, sublimed & precipitated	52	10	105	978	164
Portugal					
Sulphur	4 485	3 233	2 852	3 366	4 861
Romania					
Pyrites	...	3	1 072	1	1
Sulphur	1 413	1 959	2 390	1 884	2 561
Sulphur, sublimed & precipitated	112	2	180	1 254	2 062
Slovakia					
Sulphur	3 454	4 339	4 553	2 462	3 855
Sulphur, sublimed & precipitated	266	753	1 518	1 046	864
Slovenia					
Pyrites	463	612	683	353	645
Sulphur	58 159	53 434	56 381	53 615	57 411
Sulphur, sublimed & precipitated	135	1	7	1	1
Spain					
Pyrites	1 478	2 585	1 903	958	1 160
Sulphur	133 552	152 566	153 575	24 015	68 214
Sulphur, sublimed & precipitated	296	265	372	187	229
Sweden					
Pyrites	557	750	691	544	874
Sulphur	82 246	94 449	78 784	21 772	56 961
Sulphur, sublimed & precipitated	23	4	112	143	200

Imports continued

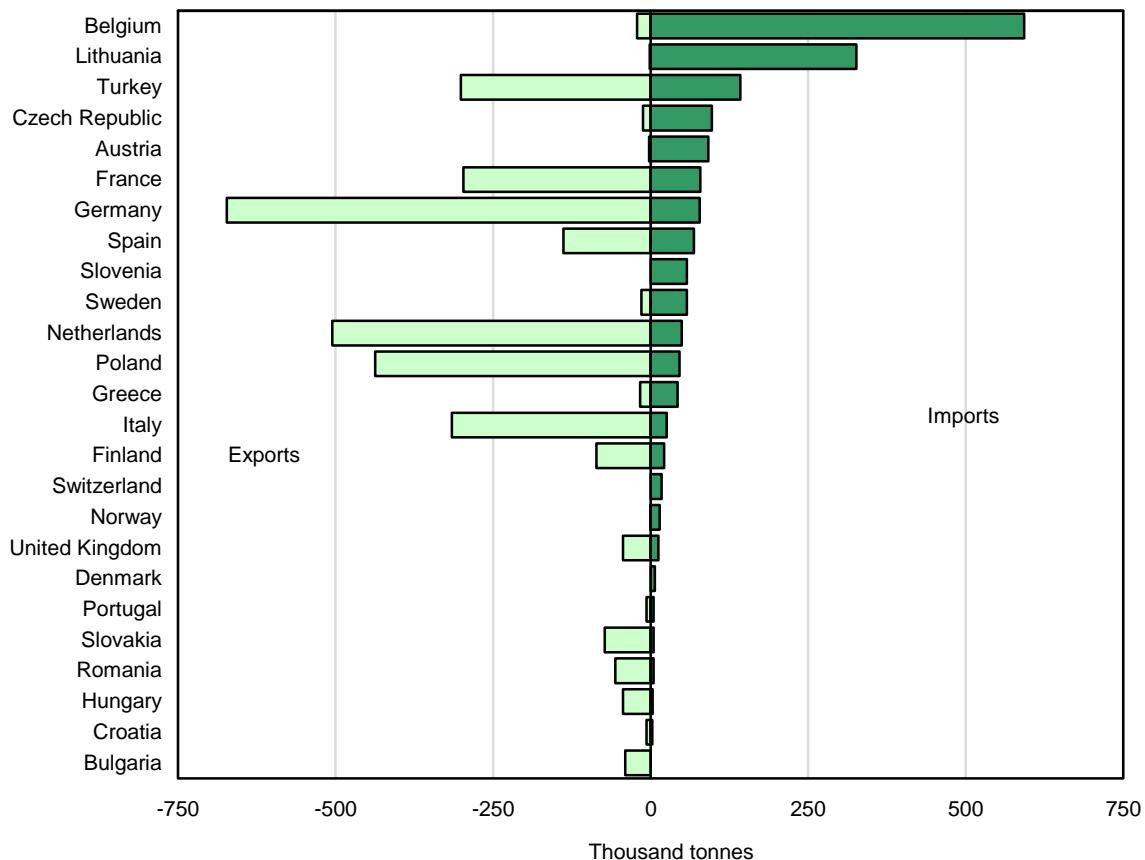
tonnes

Country	2006	2007	2008	2009	2010
Switzerland					
Pyrites	69	51	135	68	185
Sulphur	19 369	20 982	17 425	12 086	17 414
Turkey					
Pyrites	231	252	224	67	480
Sulphur	162 187	168 952	128 685	164 034	141 478
Sulphur, sublimed & precipitated	111	194	321	1 315	592
United Kingdom					
Pyrites	19	105	704	104	2 581
Sulphur, crude	11 608	5 101	64	74	274
Sulphur, refined	7 334	8 577	9 574	6 211	10 201
Sulphur, sublimed & precipitated	1 297	1 073	1 186	473	767

Note(s)

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

Sulphur and pyrites - EU34 trade in 2010

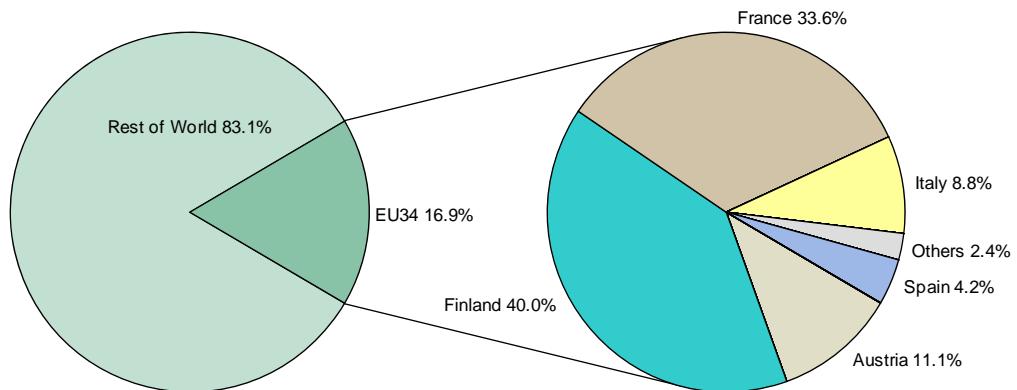


Talc

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 2010 the largest world producer was China with an estimated 27 per cent of world production. The EU34 countries contributed 17 per cent to the world total and the largest producer was Finland, which accounted for 40 per cent of EU34 production

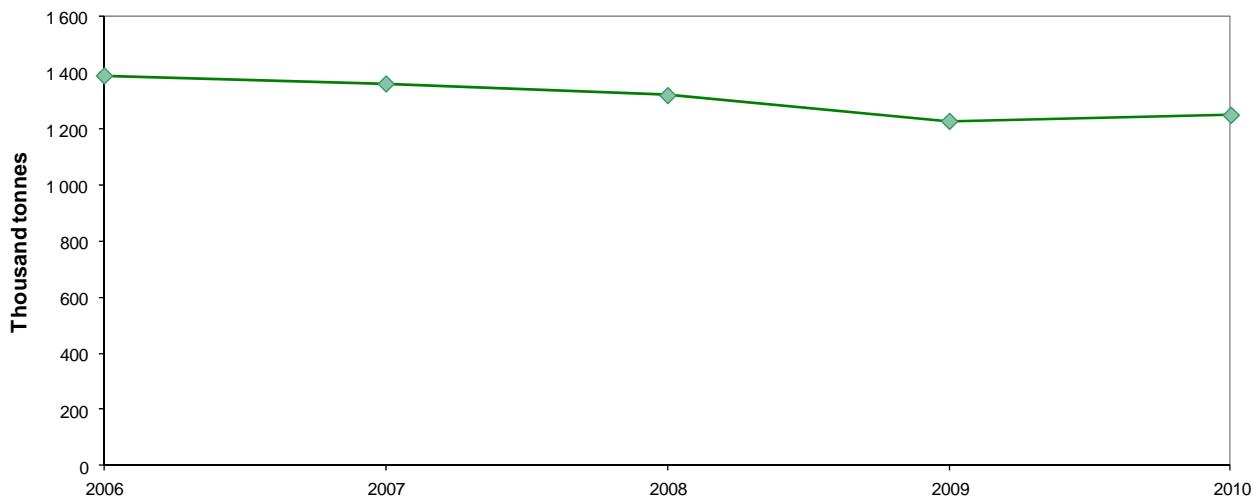
EU34 Production of talc 2010



Production of talc

tonnes

Country	2006	2007	2008	2009	2010
Austria	159 447	153 409	154 577	111 388	138 367
Finland	547 146	535 882	527 686	* 500 000	* 500 000
France	* 420 000	* 420 000	* 420 000	* 420 000	* 420 000
Greece	* 250	200	* 200	* 200	* 200
Italy	130 714	117 643	* 110 000	* 110 000	* 110 000
Macedonia	1 025	1 775	977	—	—
Norway	* 34 000	* 34 000	* 30 000	23 350	6 392
Portugal	5 517	12 367	11 657	11 567	11 951
Romania	2 967	1 513	1 843	570	296
Slovakia	—	—	—	—	7 000
Spain	83 502	78 042	59 299	47 218	51 897
Sweden	6 000	7 000	4 000	4 000	4 000
United Kingdom	4 325	2 850	2 410	2 861	* 2 800
EU34 Total	1 395 000	1 365 000	1 323 000	1 231 000	1 250 000

EU34 Production of talc 2006 - 10**Exports of talc**

tonnes

Country	2006	2007	2008	2009	2010
Austria	165 923	153 457	135 390	106 423	106 271
Belgium	144 081	165 105	139 619	112 983	128 526
Finland (a)	* 246 000	* 284 000	* 320 000	* 174 000	* 222 000
France	273 706	276 014	269 771	224 419	270 494
Germany	4 790	5 394	6 382	3 662	4 773
Greece	4 065	5 016	3 926	3 898	2 809
Italy	122 148	131 071	114 017	124 212	143 236
Macedonia	735	1 124	509	528	636
Netherlands	190 668	199 896	186 688	147 544	173 042
Norway	31 834	33 032	27 371	23 461	728
Portugal	6 013	4 243	3 841	2 699	4 316
Slovakia	1 011	1 494	1 994	45	47
Spain	47 142	39 689	51 180	29 580	11 206
Sweden	7 556	9 415	9 227	8 032	9 014
Turkey	1 195	1 742	1 636	1 712	2 865
United Kingdom	4 626	2 389	3 129	2 402	3 074

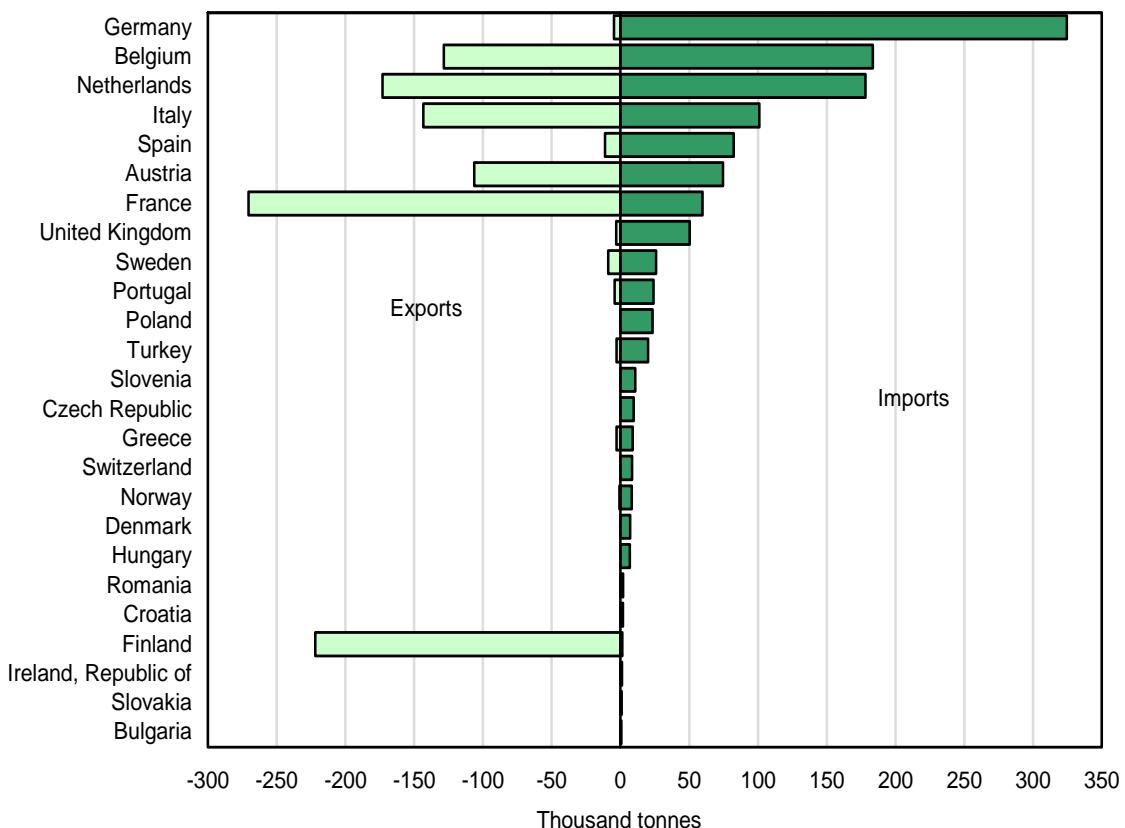
Note(s)

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

Imports of talc

tonnes

Country	2006	2007	2008	2009	2010
Austria	49 900	58 500	68 797	37 648	74 554
Belgium	186 227	202 584	194 823	149 757	183 625
Bulgaria	626	688	1 048	747	512
Croatia	1 753	1 985	1 709	1 721	1 813
Cyprus	307	343	521	290	307
Czech Republic	10 855	12 993	11 007	9 312	9 570
Denmark	13 299	10 830	12 055	8 035	7 013
Estonia	295	418	331	332	373
Finland	757	663	503	525	1 202
France	59 853	77 772	76 147	72 274	59 722
Germany	345 863	347 230	338 606	293 417	324 703
Greece	10 000	8 550	12 372	7 862	8 869
Hungary	8 175	9 224	8 875	7 566	6 786
Ireland, Republic of	1 278	375	473	1 722	1 140
Italy	129 218	140 461	147 549	78 506	100 934
Latvia	217	396	417	314	295
Lithuania	463	511	388	225	270
Malta	271	179	295	263	257
Netherlands	243 071	225 720	207 922	94 407	178 312
Norway	10 991	13 374	8 020	6 517	8 356
Poland	22 348	23 122	28 186	18 325	23 331
Portugal	30 955	36 089	26 774	18 537	24 143
Romania	2 101	2 006	1 971	1 105	2 099
Slovakia	4 174	1 344	2 448	1 030	719
Slovenia	5 297	5 301	12 860	13 756	10 793
Spain	87 578	96 298	85 942	81 043	82 425
Sweden	44 669	48 746	45 801	28 459	25 998
Switzerland	10 786	10 360	8 756	7 987	8 490
Turkey	17 143	18 549	17 706	14 893	20 026
United Kingdom	55 200	54 812	53 864	39 520	50 309

Talc - EU34 trade in 2010

Tantalum and niobium

Tantalum and niobium are sometimes produced from the same ore 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 producers of tantalum in 2010 were Brazil and Rwanda (with approximately 49 per cent of the world's total between the two). Australia is normally the largest producer but its output dropped to zero in 2010 due to the temporary closure of its mines. The largest producer of niobium was Brazil (> 95 per cent of the world's total). There was no production in the EU34, which is entirely import dependent.

Exports of tantalum

tonnes

Country	2006	2007	2008	2009	2010
Austria	—	13	20	35	27
Belgium	—	3	26	2	4
Czech Republic	53	66	97	62	95
Estonia	51	43	67	47	34
France	9	21	18	37	20
Germany	294	199	299	8	18
Lithuania	5	48	31	11	9
Netherlands	76	2	2	4	22
Portugal	4	63	48	49	98
United Kingdom	83	77	55	72	191

Note(s)

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

Imports of tantalum

tonnes

Country	2006	2007	2008	2009	2010
Austria	0	70	—	—	17
Czech Republic	164	206	253	141	265
Estonia	5	5	6	—	37
France	55	83	84	43	22
Germany	148	125	188	67	231
Hungary	...	0	...	0	32
Ireland, Republic of	2	3	2	4	85
Lithuania	11	47	38	24	12
Netherlands	6	8	10	4	6
Poland	0	3	52	1	3
Portugal	103	69	83	22	41
Spain	10	112	—	3	1
United Kingdom	119	96	161	145	284

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.

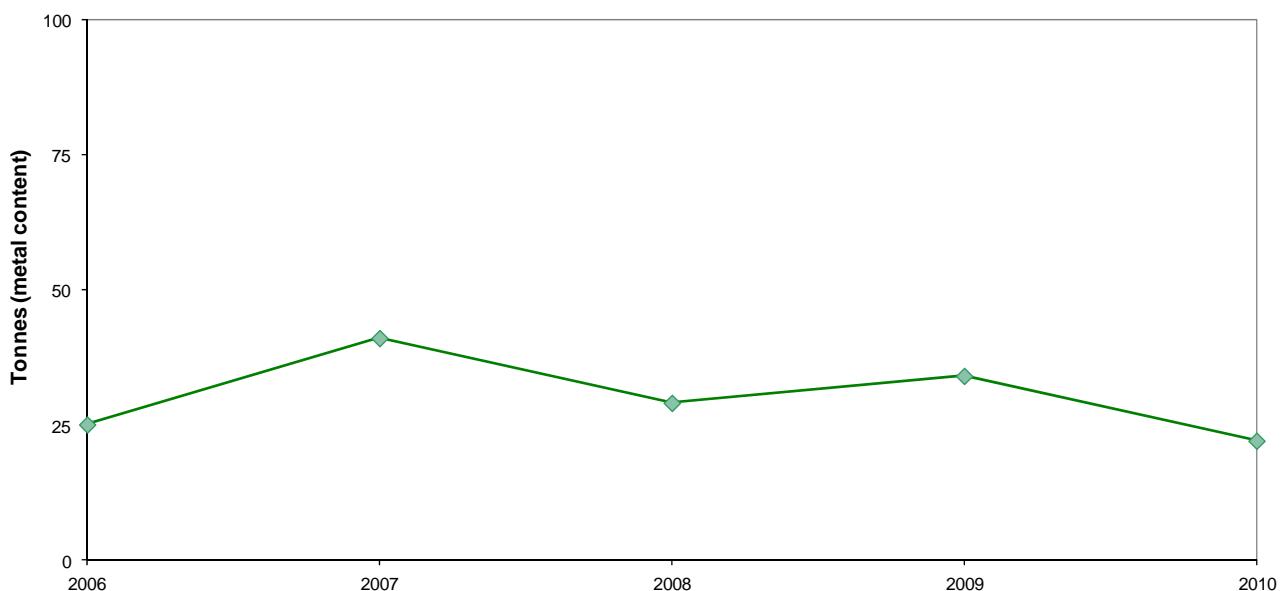
World mine production is dominated by China with 47 per cent of the world total in 2010, while mine production from the EU34 countries is limited to a small amount from Portugal. World production of refined tin is also dominated by China with 45 per cent of the world total in 2010. Production within the EU34 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	2006	2007	2008	2009	2010
Portugal	25	41	29	34	22

EU34 Mine production of tin 2006 - 10



Smelter production of tin

tonnes

Country	2006	2007	2008	2009	2010
Belgium	8 000	8 400	9 200	8 700	9 900

Exports of tin

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Unwrought (a)	110	167	177	71	60
Scrap	125	103	141	53	49
Belgium					
Concentrates	118	68	161	42	127
Unwrought	1 633	2 734	7 274	4 753	5 114
Unwrought alloys	7 421	7 072	2 448	5 000	6 236
Scrap	216	147	233	127	207
Czech Republic					
Unwrought (a)	74	253	86	76	276
Scrap	249	958	85	118	44
Denmark					
Scrap	124	90	28	37	35
Estonia					
Scrap	17	71	88	124	120
Finland					
Unwrought (a)	95	56	77	36	36
Scrap	89	201	193	124	142
France					
Concentrates	21	4	16	44	341
Unwrought	368	552	441	402	423
Unwrought alloys	1 010	884	236	140	143
Scrap	893	590	654	282	342
Germany					
Concentrates	331	—	—	163	32
Unwrought	1 015	1 246	1 612	1 000	1 253
Unwrought alloys	392	1 371	1 530	1 088	956
Scrap	965	1 222	1 649	1 129	1 440
Hungary					
Unwrought (a)	70	51	140	82	44
Scrap	123	141	246	222	196
Ireland, Republic of					
Unwrought (a)	71	1 094	34	23	689
Scrap	54	77	86	90	59
Italy					
Unwrought (a)	437	567	392	411	367
Scrap	269	204	249	154	289
Latvia					
Scrap	307	...	3	...	175
Malta					
Scrap	373	340	250	(b)* 1	(b)* 3
Netherlands					
Unwrought	6 971	8 061	2 566	1 536	4 043
Unwrought alloys	1 051	293	948	558	856
Scrap	761	545	157	547	544
Norway					
Scrap	236	189	119	12	39
Poland					
Unwrought (a)	182	1 520	355	279	408
Portugal					
Unwrought alloys	146	172	—	—	—
Scrap	124	25	147	9	43
Slovakia					
Unwrought	(a) 251	20	107	(a) 9	(a) 8
Spain					
Unwrought (a)	120	98	433	427	513
Scrap	408	460	447	2 038	376
Sweden					
Unwrought (a)	250	201	213	122	163
Scrap	43	161	96	63	27
Switzerland					
Unwrought (a)	160	112	114	87	60
Scrap	130	123	76	136	118
Turkey					
Unwrought (a)	18	179	118	37	79

Tin

Exports continued

Country	2006	2007	2008	2009	2010	tonnes
United Kingdom						
Concentrates	4	373	254	61	163	
Unwrought	8 395	4 085	1 264	928	1 856	
Unwrought alloys	698	696	532	537	389	
Scrap	35 252	27 329	19 110	22 597	13 115	

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

Imports of tin

Country	2006	2007	2008	2009	2010	tonnes
Austria						
Unwrought (a)	2 177	2 486	2 679	1 915	2 923	
Belgium						
Concentrates	154	17	318	16	200	
Unwrought	1 312	1 639	1 100	1 350	1 131	
Unwrought alloys	1 368	2 719	2 235	2 638	3 289	
Scrap	4 866	3 907	2 422	2 327	3 560	
Bulgaria						
Unwrought (a)	278	51	69	22	47	
Czech Republic						
Unwrought (a)	665	616	802	937	449	
Finland						
Unwrought (a)	173	166	184	94	188	
France						
Unwrought	8 159	7 689	6 506	5 869	5 787	
Unwrought alloys	931	409	554	207	389	
Scrap	182	432	588	259	100	
Germany						
Unwrought	21 584	23 917	22 160	14 193	18 684	
Unwrought alloys	936	409	179	175	316	
Scrap	917	1 689	2 243	674	714	
Greece						
Unwrought (a)	244	323	265	80	160	
Hungary						
Unwrought (a)	384	328	320	208	231	
Ireland, Republic of						
Unwrought (a)	211	249	389	100	157	
Italy						
Concentrates	572	65	—	3	3	
Unwrought	5 526	4 113	4 124	2 652	3 828	
Unwrought alloys	392	504	777	360	1 074	
Luxembourg						
Unwrought	20	18	12	14	215	
Netherlands						
Unwrought	13 696	7 858	11 003	7 071	13 967	
Unwrought alloys	1 283	1 972	2 540	504	665	
Scrap	466	607	503	380	606	
Norway						
Unwrought (a)	126	74	80	71	38	
Poland						
Concentrates	3	77	...	220	98	
Unwrought (a)	1 583	1 838	1 857	1 102	1 317	
Scrap	1 653	1 931	1 038	1 664	1 605	
Portugal						
Unwrought	763	577	487	308	317	
Unwrought alloys	274	419	130	103	100	

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Romania					
Unwrought (a)	421	137	127	114	85
Slovakia					
Unwrought (a)	2 246	2 260	2 276	2 059	2 087
Spain					
Unwrought	7 716	7 093	7 313	5 457	6 410
Unwrought alloys	220	167	261	243	172
Scrap	1 576	185	376	441	2 410
Sweden					
Unwrought (a)	838	720	555	364	435
Switzerland					
Unwrought (a)	1 042	1 241	1 093	800	863
Turkey					
Unwrought (a)	2 380	2 788	2 603	1 630	2 558
United Kingdom					
Unwrought	3 558	13 630	7 181	4 522	4 327
Unwrought alloys	891	525	400	370	365
Scrap	1 728	452	448	121	196

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.

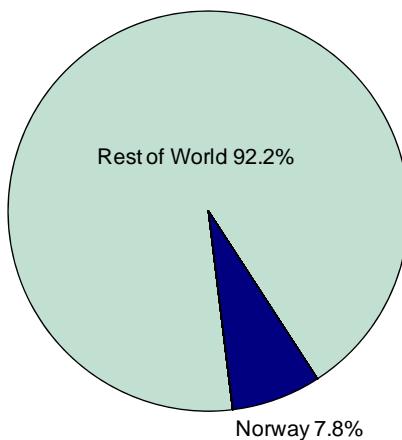
(a) Including alloys

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 (> 90 per cent) of titanium minerals is in the form of titanium dioxide, a white pigment used in paint, plastics, rubber and paper.

In 2010 Canada was the world's largest producer of titanium minerals, followed by Australia and South Africa. Together these three countries produced 52.6 per cent of the world total. EU34 production is restricted to Norway, which produced 7.8 per cent of the world total.

EU34 Production of titanium minerals 2010



Production of titanium minerals

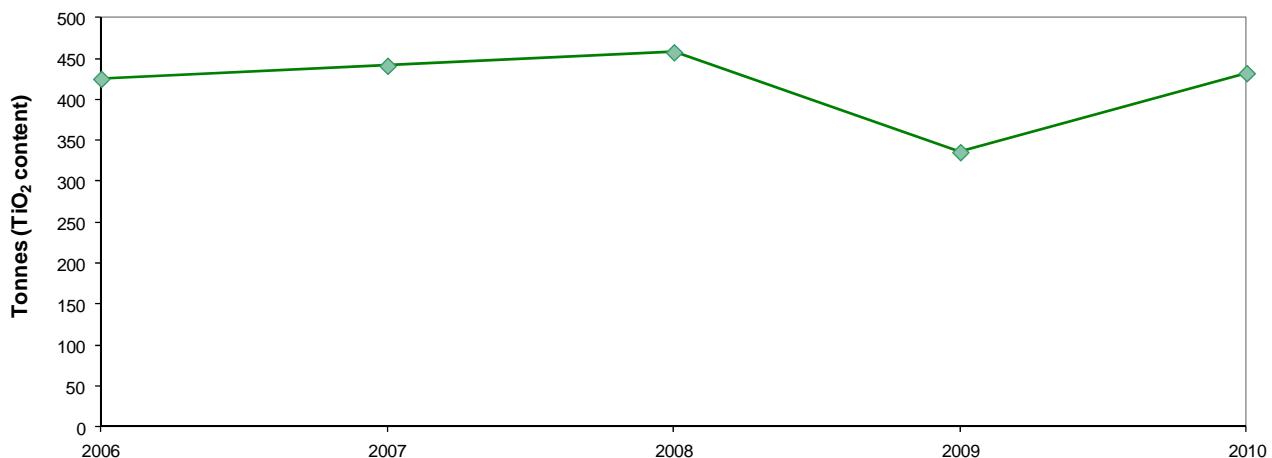
tonnes

Country	2006	2007	2008	2009	2010
Norway Ilmenite	850 000	882 000	915 000	671 000	864 000

Note(s)

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

EU34 Production of titanium minerals 2006 - 10



Exports of titanium

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal	513	576	717	203	129
Oxides	3 976	4 885	6 444	5 344	5 956
Belgium					
Titanium minerals	100 498	129 501	100 134	58 654	106 478
Metal	1 490	2 070	1 157	1 087	895
Oxides	401 614	422 885	401 906	369 495	435 415
Titanium slag	20 830	3 209	5 085	...	...
Bulgaria					
Metal	4	28	835	2	—
Croatia					
Oxides	419	489	417	331	117
Czech Republic					
Titanium minerals	492	745	641	452	2 378
Metal	424	126	84	339	358
Oxides	43 010	43 166	42 860	46 753	45 842
Denmark					
Metal	146	162	152	102	196
Oxides	1 134	1 121	460	442	820
Estonia					
Metal	49	11	13	30	26
Oxides	163	1 491	579	158	49
Finland					
Metal	35	30	11	14	42
Oxides (a)	* 103 000	* 103 000	* 106 000	* 86 000	* 88 000
France					
Titanium minerals	116	2 242	93	150	283
Metal	5 722	5 112	5 391	4 523	4 907
Oxides	167 807	171 337	148 573	113 798	129 197
Germany					
Titanium minerals	490	776	3 322	6 864	22 384
Metal	8 893	8 713	8 278	5 367	9 351
Oxides	400 832	409 495	367 545	351 872	391 981
Greece					
Oxides	1 861	2 233	598	462	773
Hungary					
Oxides	324	991	1 402	1 120	1 942
Italy					
Metal	4 101	4 884	5 478	3 607	3 248
Oxides	22 473	26 242	25 982	23 508	27 450
Lithuania					
Oxides	208	268	1 230	502	1 167
Netherlands					
Titanium minerals	1 660	449	1 341	13 664	101 840
Metal	1 902	2 182	1 551	895	4 117
Oxides	95 512	64 544	15 544	36 179	31 385
Norway					
Titanium minerals (a)	* 477 000	* 435 000	* 435 000	* 350 000	* 465 000
Metal	176	117	339	227	231
Oxides (a)	* 221 000	* 199 000	* 217 000	* 207 000	* 35 000
Poland					
Metal	917	52	117	105	76
Oxides	25 598	21 776	21 509	20 937	20 996
Portugal					
Oxides	840	1 064	1 189	1 166	1 091
Romania					
Metal	579	650	2 469	541	960
Slovakia					
Metal	28	5	76	3	49
Slovenia					
Metal	36	37	40	23	171
Oxides	50 755	55 867	55 110	57 866	61 637
Spain					
Titanium minerals	185	232	155	25 892	2 405
Metal	2 005	1 431	947	1 018	1 928
Oxides	85 307	91 583	58 342	33 721	35 233

Titanium

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Sweden					
Metal	1 461	2 667	1 002	717	925
Oxides	20 409	17 047	19 992	15 921	20 567
Switzerland					
Metal	692	868	987	734	805
Oxides	1 024	1 133	1 276	1 203	1 466
Turkey					
Metal	17	—	49	47	85
Oxides	2 023	2 489	2 607	2 237	2 650
United Kingdom					
Metal	14 028	12 934	11 155	9 555	12 060
Oxides	182 247	212 068	222 503	203 873	208 518

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	2006	2007	2008	2009	2010
Austria					
Titanium minerals	575	451	520	362	477
Metal	1 873	3 851	2 455	1 346	1 381
Oxides	27 485	26 856	30 861	28 258	28 288
Belgium					
Titanium minerals	157 491	221 156	204 688	110 028	181 688
Metal	1 857	3 800	3 739	2 132	1 743
Oxides	314 131	144 760	132 327	108 582	* 314 200
Bulgaria					
Titanium minerals	300	712	42	105	506
Oxides	4 750	5 398	5 955	5 329	5 675
Croatia					
Oxides	2 827	3 244	2 989	2 697	3 000
Cyprus					
Oxides	1 227	1 243	1 603	1 189	1 299
Czech Republic					
Titanium minerals	149 925	179 323	193 858	140 394	155 485
Metal	1 155	1 086	1 122	918	779
Oxides	8 734	10 529	8 765	7 248	8 857
Denmark					
Metal	788	623	774	670	674
Oxides	24 678	19 514	17 055	17 511	20 427
Estonia					
Metal	74	393	97	50	82
Oxides	2 193	2 548	2 106	1 349	1 409
Finland					
Titanium minerals	34 403	20 578	26 200	8 794	...
Oxides	14 788	15 838	14 256	12 524	15 571
France					
Ilmenite	83 499	60 739	58 423	17 766	...
Other titanium minerals	78 849	71 292	12 531	11 964	(a) 50 893
Metal	9 431	10 521	10 036	7 282	7 766
Oxides	135 309	126 786	128 226	136 389	148 994
Titanium slag	107 092	91 602	80 726	85 776	...
Germany					
Ilmenite	414 037	425 175	446 154	304 471	...
Other titanium minerals	253 392	200 512	279 407	212 735	(a) 838 768
Metal	18 426	19 385	19 449	11 649	12 919
Oxides	269 812	299 599	281 009	240 120	309 500
Titanium slag	17 403	112 474	76 107	42 042	...

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Greece					
Titanium minerals	440	826	399	351	504
Oxides	25 372	27 284	23 260	19 289	19 003
Hungary					
Titanium minerals	1 623	(b)* 1 400	2 659	(b)* 1 200	2 677
Oxides	7 845	8 291	8 590	6 853	8 927
Ireland, Republic of					
Metal	350	362	1 154	507	414
Oxides	4 703	4 822	3 961	4 308	4 922
Italy					
Titanium minerals	185 121	136 274	102 909	74 338	98 978
Metal	6 248	8 609	7 155	3 352	4 497
Oxides	161 253	166 223	141 959	139 071	160 361
Latvia					
Oxides	833	781	3 112	562	739
Lithuania					
Oxides	975	1 328	980	1 259	1 947
Luxembourg					
Metal	487	339	165	66	456
Oxides	906	1 169	1 051	1 114	1 481
Macedonia					
Oxides	471	383	426	427	504
Malta					
Oxides	512	531	463	470	463
Netherlands					
Titanium minerals	79 377	103 580	87 769	* 100 000	238 199
Metal	2 234	4 295	1 073	1 224	5 330
Oxides	8 387	41 221	37 101	40 914	43 542
Norway					
Titanium minerals	73 690	17 600	73 307	29 809	45 018
Metal	661	637	937	389	412
Oxides	16 013	12 121	12 241	8 209	10 115
Poland					
Titanium minerals	95 057	100 002	91 208	84 396	105 384
Metal	2 550	2 122	451	264	616
Oxides	36 943	45 984	41 019	42 031	46 110
Portugal					
Titanium minerals	47	412	263	358	714
Oxides	18 565	19 545	18 800	18 456	20 486
Romania					
Titanium minerals	1 809	2 093	2 171	1 513	2 095
Metal	486	612	453	707	771
Oxides	9 794	11 132	9 127	7 151	8 733
Slovakia					
Titanium minerals	12 648	17 242	...	0	0
Metal	179	250	329	130	956
Oxides	2 742	2 193	2 389	2 949	2 109
Slovenia					
Titanium minerals	22 825	14 903	34 930	32 789	25 081
Metal	392	348	257	233	400
Oxides	3 153	3 500	3 296	2 889	2 917
Titanium slag	64 246	53 245	65 180	66 818	...
Spain					
Ilmenite	159 090	121 898	119 467	26 512	...
Other titanium minerals	1 807	22 037	9 133	522	(a) 111 298
Metal	5 782	3 450	3 131	1 735	2 627
Oxides	112 778	123 132	138 275	93 267	91 822
Titanium slag	8	2 164	10 004	...	...
Sweden					
Titanium minerals	911	1 032	995	726	1 854
Metal	2 294	2 623	2 391	1 593	1 936
Oxides	62 841	65 872	61 890	53 071	61 191
Switzerland					
Metal	1 357	1 352	1 168	862	971
Oxides	18 805	20 455	19 550	17 086	19 725

Titanium

Imports continued

tonnes

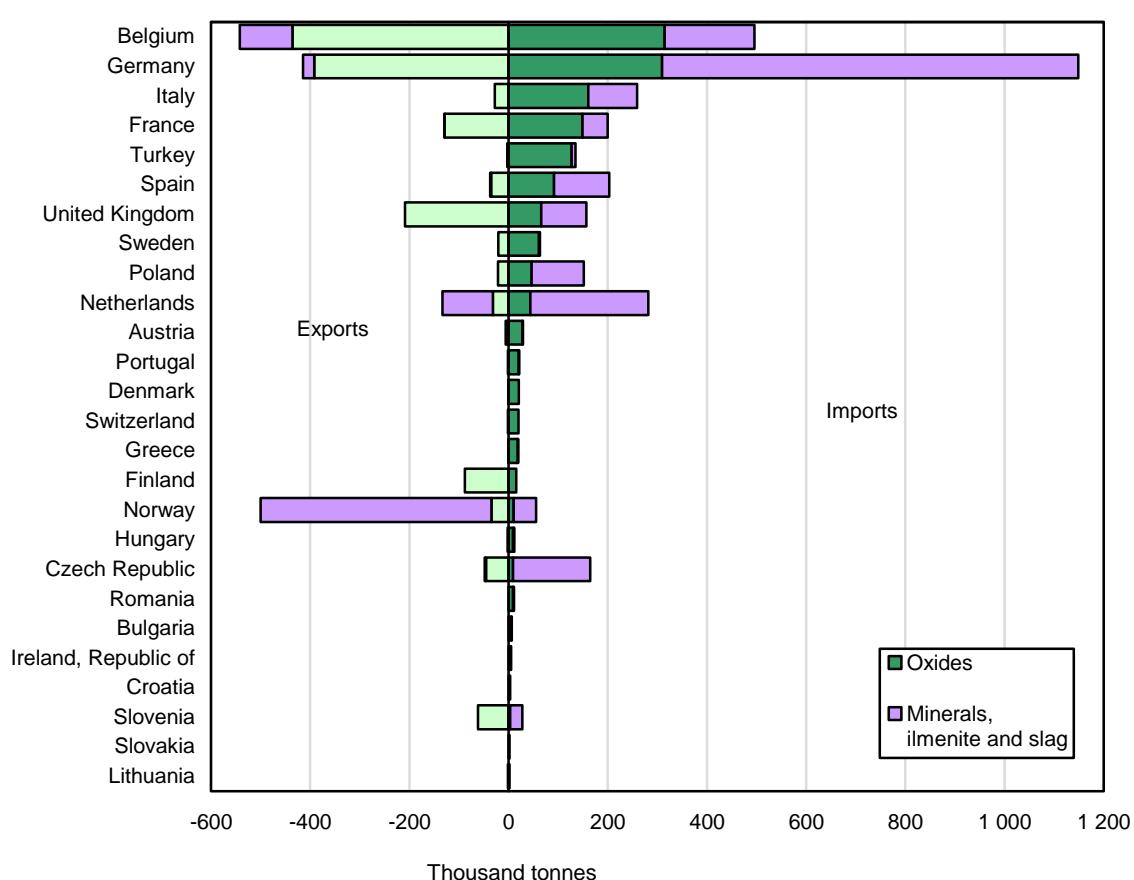
Country	2006	2007	2008	2009	2010
Turkey					
Titanium minerals	6 831	* 9 000	7 762	5 628	7 390
Oxides	108 721	111 858	106 206	98 100	127 266
United Kingdom					
Ilmenite	175 882	181 794	194 719	112 068	90 622
Other titanium minerals	48 147	42	37	23	...
Metal	30 267	30 905	32 305	23 178	20 681
Oxides	71 528	74 708	58 747	53 864	65 963
Titanium slag	91 603	151 494	158 195	127 224	...

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

Titanium - EU34 trade in 2010

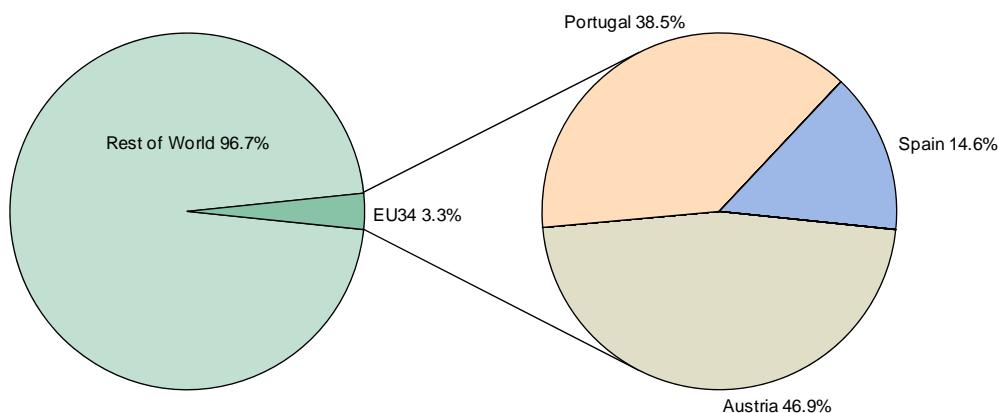


Tungsten

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 2010, with 84 per cent of the world total. There was minor production from Austria, Portugal and Spain but overall the EU34 contributed just three per cent to the world total.

EU34 Production of tungsten 2010



Mine production of tungsten

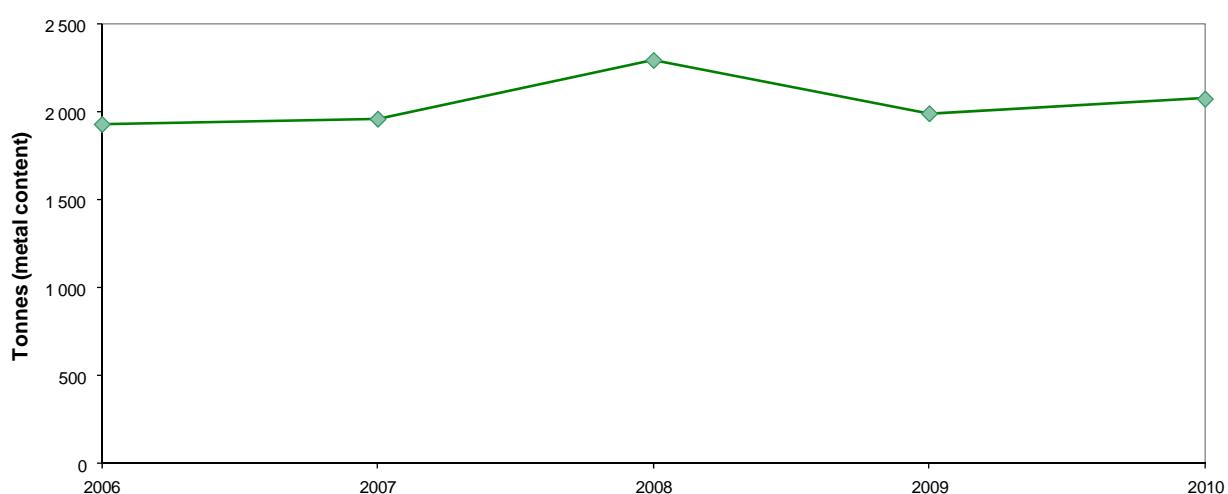
tonnes (metal content)

Country	2006	2007	2008	2009	2010
Austria	1 153	1 117	1 122	887	975
Portugal (a)	780	846	981	823	799
Spain	—	—	194	284	303
EU34 Total	1 900	2 000	2 300	2 000	2 100

Note(s)

(a) Wolframite and scheelite

EU34 Production of tungsten 2006 - 10



Exports of tungsten

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Metal (a)	* 2 000	* 1 600	* 1 600	* 4 300	* 3 000
Belgium					
Metal	485	381	405	422	723
Carbide	62	54	36	32	92
Bulgaria					
Metal	28	33	20	2	80
Czech Republic					
Metal	142	102	86	30	211
Carbide	579	605	592	307	803
Denmark					
Metal	86	112	121	91	113
Finland					
Metal	80	113	360	291	450
France					
Metal	617	1 148	676	398	473
Carbide	343	431	354	261	288
Germany					
Metal	4 320	3 020	4 687	2 655	3 119
Ireland, Republic of					
Metal	183	180	10	—	59
Italy					
Metal	197	455	973	670	925
Luxembourg					
Metal	4	5	0	2	203
Netherlands					
Ores & concentrates	276	181	29	...	104
Metal	434	391	582	133	406
Poland					
Metal	89	76	143	136	154
Portugal					
Ores & concentrates	1 305	1 466	1 705	1 407	1 289
Slovakia					
Metal	66	2	9	4	4
Spain					
Ores & concentrates	—	0	286	457	400
Metal	59	177	223	156	315
Sweden					
Ores & concentrates	—	3 192	75	96	—
Metal	296	234	328	431	289
Carbide	491	446	436	253	401
Switzerland					
Metal	270	392	400	239	476
Turkey					
Metal	25	33	99	213	139
United Kingdom					
Metal	2 100	2 444	1 625	1 541	1 650
Carbide	251	303	51	80	41

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	2006	2007	2008	2009	2010
Austria					
Metal	670	548	435	369	632
Carbide	...	...	...	568	1 268
Belgium					
Ores & concentrates	—	25	—	2	28
Metal	454	510	401	326	402
Carbide	64	72	45	35	31
Czech Republic					
Metal	197	837	206	4 184	677
Carbide	...	...	...	...	150
Denmark					
Metal	523	113	110	105	51
Finland					
Metal	21	130	296	205	403
France					
Metal	925	823	898	547	867
Carbide	898	866	859	311	359
Germany					
Ores & concentrates	512	604	967	821	1 029
Metal	4 450	4 791	5 184	3 313	7 168
Carbide	1 366	2 678	2 526	1 333	2 544
Ireland, Republic of					
Metal	173	277	215	68	91
Carbide	53	184	158	108	68
Italy					
Metal	236	280	255	147	496
Carbide	365	361	350	103	279
Luxembourg					
Metal	120	3	25	1	2
Carbide	...	1 110	983	465	7
Netherlands					
Ores & concentrates	1 532	875	457	(a)* 900	(a)* 1 200
Metal	330	284	329	71	206
Carbide	49	36	94	42	18
Poland					
Metal	111	108	103	87	124
Portugal					
Metal	106	122	251	193	277
Carbide	97	119	169	46	110
Romania					
Metal	7	59	1 122	22	79
Slovakia					
Metal	17	17	55	43	366
Spain					
Metal	556	914	731	681	426
Sweden					
Metal	563	546	588	175	179
Carbide	738	876	904	233	1 308
Switzerland					
Metal	146	257	272	105	143
United Kingdom					
Ores & concentrates	34	2	11	35	2
Metal	4 607	2 925	1 865	1 477	1 676
Carbide	913	1 409	1 023	614	1 111

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 exports from certain countries

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 in 2010: South Africa (33.9 per cent of world total), China (33.0 per cent), Russia (31.5 per cent) and Kazakhstan (1.5 per cent). There is no EU34 mine production. In the USA vanadium is a significant by-product from the refining of heavy crude oils.

Exports of vanadium

tonnes

Country	2006	2007	2008	2009	2010
Belgium					
Ores & concentrates	791	346	327	131	...
Pentoxide	13	10	8	47	80
France					
Metal	63	...	...	...	...
Germany					
Ores & concentrates	2 372	...	...	...	...
Pentoxide	1 444	1 250	1 173	...	...
Metal	573	...	...	...	...
Italy					
Ores & concentrates	1 291	527	217	385	...
Lithuania					
Ores & concentrates	...	346	358	...	...
Netherlands					
Pentoxide	411	157	45	102	122
Turkey					
Pentoxide	—	24	200	119	—
United Kingdom					
Pentoxide	23	697	589	487	694
	69	2 182	2	18	23

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	2006	2007	2008	2009	2010
Austria					
Vanadiferous residues	* 29 000	* 37 000	* 36 000	* 35 000	* 46 000
Ores & concentrates	792	543	460	...	...
Belgium					
Ores & concentrates	186	162	200	123	...
Pentoxide	12	64	38	94	123
Czech Republic					
Pentoxide	4 858	3 210	5 135	2 702	5 255
France					
Pentoxide	533	656	674	371	574
Metal	71	...	...	...	...
Germany					
Ores & concentrates	58	79	60	...	...
Pentoxide	1 222	1 071	879	(a)* 400	(a)* 1 000
Metal	173	...	...	...	...
Greece					
Ores & concentrates	...	...	...	80	...
Italy					
Ores & concentrates	75	...	255	18	...
Pentoxide	209	150	173	45	53
Netherlands					
Pentoxide	362	316	227	27	204

Vanadium

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Norway					
Metal	63	...	...	...	...
Poland					
Metal	41	...	...	...	...
Slovenia					
Metal	26	...	...	...	...
Spain					
Ores & concentrates	29	48	9	22	...
Pentoxide	224	45	43	50	115
Sweden					
Pentoxide	1	1	76	25	0
Metal	40	...	...	...	...
United Kingdom					
Pentoxide	472	425	344	84	5
Metal	407	583	314	112	197

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

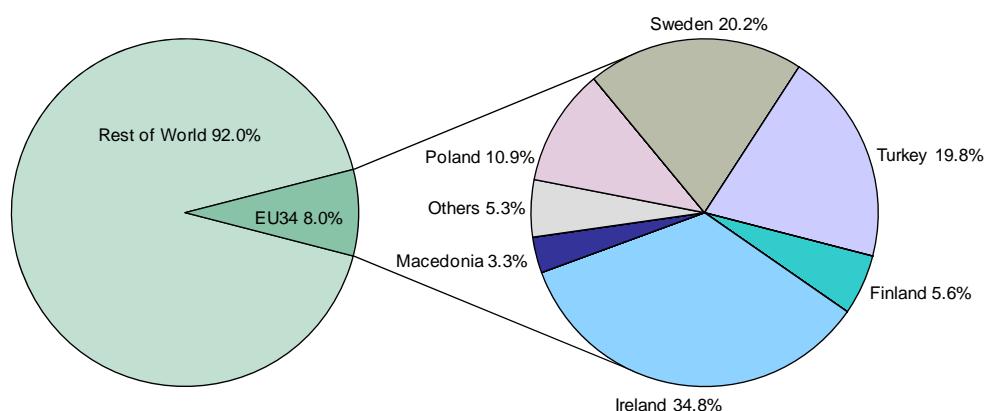
(a) BGS estimates, based on known exports from certain countries

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 2010 with 30 per cent of the total. Australia and Peru (12 per cent each) are also major producers. The Republic of Ireland was the largest mine producer in the EU34 with 35 per cent of the EU34 total, although overall the EU34 contributed only eight per cent to the world total. A number of EU34 countries have major zinc refineries.

EU34 Mine production of zinc 2010



Mine production of zinc

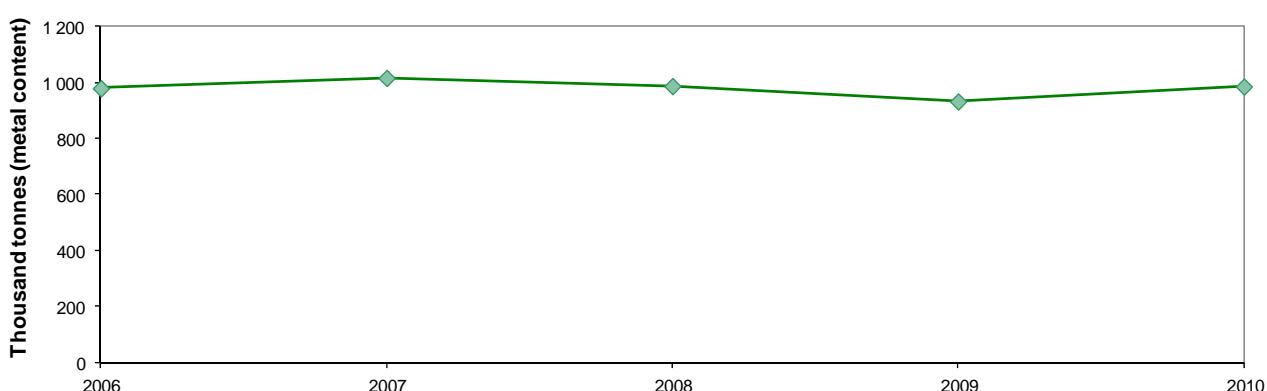
tonnes (metal content)

Country	2006	2007	2008	2009	2010
Bulgaria (a)	16 108	14 453	12 819	9 339	9 904
Finland	35 700	38 900	27 800	30 233	55 562
Greece	16 000	20 700	24 200	17 800	18 400
Ireland, Republic of	425 800	400 900	398 200	* 385 700	342 500
Macedonia	10 836	30 957	38 737	38 648	32 900
Poland	126 600	129 600	132 400	115 500	107 700
Portugal	7 505	24 380	37 900	501	6 422
Romania	8 052	849	14	—	—
Spain	—	—	—	5 900	17 600
Sweden	210 029	214 576	187 987	192 502	198 687
Turkey	122 300	140 500	126 800	135 800	195 500
EU34 Total	979 000	1 016 000	987 000	932 000	985 000

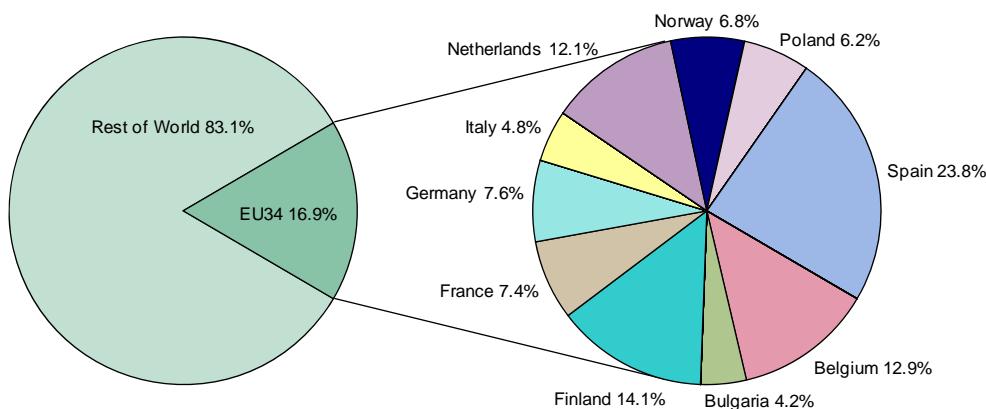
Note(s)

(a) Metal content of ore

EU34 Mine production of zinc 2006 - 10



EU34 Production of slab zinc 2010

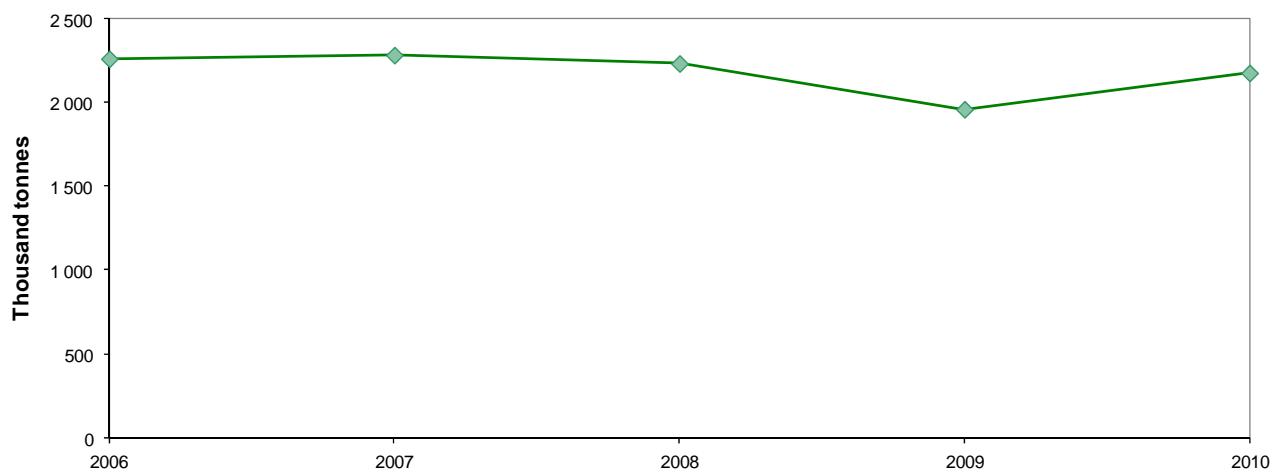


Production of slab zinc

tonnes

Country	2006	2007	2008	2009	2010
Belgium	238 000	254 000	251 000	137 000	281 000
Bulgaria	85 900	98 100	101 700	92 700	92 300
Finland	282 238	305 543	297 722	295 049	307 144
France	120 000	129 000	118 000	161 000	162 000
Germany	342 566	294 735	292 284	* 153 000	165 000
Italy	109 200	102 100	107 100	103 400	104 700
Netherlands	238 274	234 000	250 000	224 000	264 000
Norway	160 670	157 027	145 469	138 973	148 862
Poland	133 900	141 900	142 500	139 100	135 100
Romania	43 705	58 342	61 978	1 000	—
Spain	507 300	509 000	466 000	515 000	517 100
EU34 Total	2 262 000	2 284 000	2 234 000	1 960 000	2 177 000

EU34 Production of slab zinc 2006 - 10



Exports of zinc

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Unwrought (a)	19 981	14 682	13 794	5 703	8 532
Scrap	4 329	2 132	8 176	6 052	5 757
Belgium					
Ores & concentrates	540 809	479 796	733 794	785 125	749 582
Unwrought	13 275	22 015	8 359	13 590	155 654
Scrap	57 850	40 866	15 585	16 644	14 540
Bulgaria					
Ores & concentrates	492	4 384	7 982	2 076	22
Unwrought (a)	227 543	90 573	96 678	87 008	81 332
Scrap	1 854	1 511	1 293	2 226	1 949
Croatia					
Scrap	511	683	700	708	518
Cyprus					
Scrap	69	1 746	...	118	90
Czech Republic					
Unwrought (a)	10 669	18 786	17 258	19 982	5 148
Scrap	3 086	2 981	2 705	2 716	4 798
Denmark					
Scrap	3 628	2 388	2 028	2 622	2 563
Estonia					
Scrap	1 121	725	2 860	1 065	509
Finland					
Unwrought (a)	233 231	260 434	257 411	268 893	266 738
Scrap	1 650	1 274	964	1 012	1 369
France					
Ores & concentrates	47 516	51 781	78 398	39 350	49 652
Unwrought	31 960	29 305	31 601	64 773	79 727
Unwrought alloys	12 205	7 238	5 073	9 362	1 851
Scrap	71 224	56 200	43 770	45 986	51 755
Germany					
Ores & concentrates	2 336	612	1 835	888	1 674
Unwrought	65 824	77 443	70 724	63 165	52 483
Unwrought alloys	29 999	30 439	28 835	24 163	31 857
Scrap	54 939	59 297	51 801	68 648	74 208
Greece					
Ores & concentrates	12 615	14 890	43 003	21 311	14 660
Unwrought (a)	1 802	29 861	448	665	264
Hungary					
Unwrought	1 189	—	(a) 523	—	(a) 405
Scrap	4 557	3 716	1 902	2 978	2 821
Ireland, Republic of					
Ores & concentrates	483 949	412 703	404 303	594 268	588 143
Scrap	569	3 044	649	312	299
Italy					
Ores & concentrates	114 339	105 437	99 121	48 051	98 211
Unwrought	37 659	21 048	7 967	5 258	11 071
Unwrought alloys	7 792	6 689	2 857	3 491	6 377
Scrap	12 934	13 574	8 603	12 334	16 427
Latvia					
Scrap	750	757	443	975	587
Lithuania					
Scrap	976	517	232	553	423
Luxembourg					
Scrap	1 595	1 807	315	423	1 134
Macedonia					
Ores & concentrates	23 106	58 973	...	69 509	60 369
Scrap	719	874	576	479	739
Netherlands					
Ores & concentrates	3 730	13 939	0	425	12 182
Unwrought	615 269	243 354	244 789	133 994	166 281
Unwrought alloys	38 116	31 276	23 932	22 041	42 182
Scrap	39 073	67 010	19 815	* 11 900	32 543
Norway					
Unwrought	138 491	130 570	130 397	128 416	122 649
Unwrought alloys	12 275	13 899	9 227	6 107	19 889

Exports continued

tonnes

Country	2006	2007	2008	2009	2010
Poland					
Ores & concentrates	61 094	61 595	58 035	45 877	4213
Unwrought	62 332	73 096	83 571	84 833	96 142
Unwrought alloys	2 513	1 829	3 606	4 699	6 280
Scrap	233	422	430	1 617	902
Portugal					
Ores & concentrates	13 035	40 950	75 414	371	7 438
Unwrought (a)	706	242	1 307	849	151
Scrap	2 023	3 345	2 910	1 646	940
Romania					
Ores & concentrates	16 796	4 043	503	24 528	15 375
Unwrought (a)	32 008	48 339	59 395	8 004	657
Scrap	228	1 348	442	1 615	711
Slovakia					
Unwrought	5 232	16 356	14 600	12 871	7 903
Unwrought alloys	14 053	7 147	10 412	11 365	13 075
Slovenia					
Unwrought (a)	1 553	1 557	1 937	1 469	2 725
Scrap	846	873	975	517	933
Spain					
Ores & concentrates	31 416	98 359	121 688	40 118	82 009
Unwrought	270 233	220 002	191 897	216 633	318 527
Unwrought alloys	87 073	66 155	92 781	62 544	91 054
Scrap	7 946	5 295	6 210	26 675	37 362
Sweden					
Ores & concentrates	402 219	405 682	389 473	395 616	362 085
Unwrought (a)	1 143	103	538	302	832
Scrap	29 015	2 777	2 898	1 840	2 900
Switzerland					
Unwrought (a)	1 001	679	1 078	524	415
Scrap	2 856	2 408	2 445	2 574	2 582
Turkey					
Ores & concentrates	144 662	123 956	253 573	272 559	392 725
Scrap	176	281	468	1 929	1 536
United Kingdom					
Ores & concentrates	468	82	246	11 418	8 405
Unwrought	5 325	5 932	3 883	3 600	3 580
Unwrought alloys	37 120	33 799	28 408	13 578	14 561
Scrap	4 571	7 543	5 699	6 030	14 903

Note(s)

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

(a) Including alloys

Imports of zinc

tonnes

Country	2006	2007	2008	2009	2010
Austria					
Unwrought	61 856	65 391	61 877	37 864	37 560
Unwrought alloys	41 002	33 939	33 911	27 886	34 411
Belgium					
Ores & concentrates	1 109 923	1 100 875	(a)* 805 000	(a)* 444 500	1 129 207
Unwrought	215 338	208 819	205 745	237 741	189 980
Unwrought alloys	24 414	12 115	8 075	13 299	10 613
Scrap	44 221	59 769	40 657	61 433	68 233
Bulgaria					
Ores & concentrates	198 504	208 313	146 655	147 579	167 107
Unwrought (b)	9 994	3 330	5 095	2 480	1 761
Croatia					
Unwrought (b)	11 506	4 674	4 656	3 149	3 029

Zinc

Imports continued

tonnes

Country	2006	2007	2008	2009	2010
Czech Republic					
Unwrought	33 732	35 666	36 733	24 660	15 121
Unwrought alloys	11 113	11 992	11 344	7 155	11 653
Scrap	334	4 008	2 792	2 434	900
Denmark					
Unwrought	11 494	9 931	12 591	6 063	4 427
Unwrought alloys	1 320	1 345	910	771	1 310
Estonia					
Unwrought (b)	7 253	4 362	7 676	1 595	5 978
Finland					
Ores & concentrates	520 081	555 569	582 049	532 036	559 918
Unwrought (b)	1 443	4 513	4 242	3 705	4 374
France					
Ores & concentrates	250 791	259 750	238 502	241 976	222 580
Unwrought	170 263	166 110	164 172	128 674	131 993
Unwrought alloys	47 309	44 124	45 480	27 000	34 205
Scrap	7 833	7 247	3 694	4 604	3 003
Germany					
Ores & concentrates	314 268	357 692	383 789	271 554	285 331
Unwrought	313 034	316 603	305 075	285 965	380 807
Unwrought alloys	83 795	87 785	89 738	36 350	57 563
Scrap	30 028	19 586	17 395	16 782	23 694
Greece					
Unwrought (b)	19 320	58 708	28 996	25 422	22 534
Hungary					
Unwrought (b)	19 093	16 843	17 011	9 862	11 767
Ireland, Republic of					
Unwrought (b)	7 010	7 687	5 185	2 210	2 104
Italy					
Ores & concentrates	175 253	195 798	161 838	155 028	184 192
Unwrought	229 040	314 714	179 691	118 424	245 254
Unwrought alloys	42 768	51 514	81 350	22 194	34 595
Scrap	18 541	21 599	15 369	15 315	27 740
Latvia					
Unwrought (b)	953	664	1 256	830	383
Lithuania					
Unwrought (b)	1 554	627	563	190	460
Luxembourg					
Unwrought	19 311	9 841	5 831	6 049	9 232
Unwrought alloys	1 156	1 360	537	237	475
Macedonia					
Unwrought (b)	15 658	6 721	4 954	4 147	5 213
Netherlands					
Ores & concentrates	532 861	359 520	430 617	320 568	391 050
Unwrought	200 472	182 072	155 003	104 253	254 953
Unwrought alloys	40 482	38 602	24 062	15 791	19 827
Scrap	14 619	13 633	6 270	8 274	12 653
Norway					
Ores & concentrates	248 486	284 791	243 213	209 649	228 828
Unwrought (b)	2 828	2 167	3 286	1 612	1 376
Poland					
Ores & concentrates	129 551	127 720	150 283	130 258	115 561
Unwrought	28 714	31 838	26 811	18 498	53 983
Unwrought alloys	11 421	13 660	11 906	8 922	7 610
Scrap	2 681	4 445	6 378	3 907	7 188
Portugal					
Unwrought	19 015	16 367	19 551	12 830	15 757
Unwrought alloys	5 778	5 054	4 617	4 018	4 522
Romania					
Ores & concentrates	137 878	173 536	161 527	12	3
Unwrought (b)	23 732	13 135	7 394	10 523	16 664
Slovakia					
Unwrought (b)	45 143	44 959	41 003	28 863	37 266
Slovenia					
Unwrought	17 571	16 696	14 881	16 766	15 314
Unwrought alloys	11 864	11 711	8 938	6 180	5 850

Imports continued

tonnes

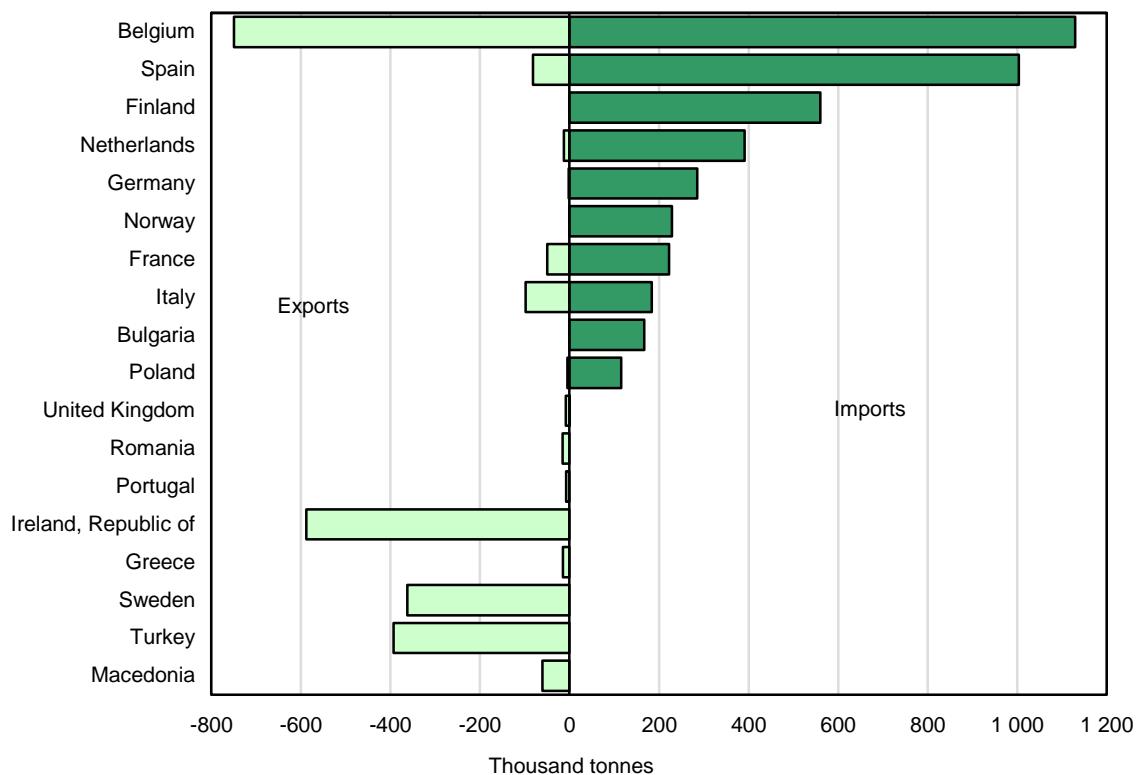
Country	2006	2007	2008	2009	2010
Spain					
Ores & concentrates	1 188 067	1 257 304	1 114 634	909 078	1 003 388
Unwrought	7 577	21 634	26 779	16 091	7 583
Unwrought alloys	18 933	17 411	15 000	9 230	15 627
Scrap	4 996	6 601	7 396	3 127	10 935
Sweden					
Unwrought	25 763	21 570	29 211	29 750	37 524
Unwrought alloys	20 325	22 600	12 059	2 691	5 905
Switzerland					
Unwrought	12 189	14 473	13 715	9 431	15 521
Unwrought alloys	2 214	2 700	2 471	1 549	2 276
Turkey					
Unwrought	397 384	136 916	147 215	137 765	182 598
Unwrought alloys	5 481	3 775	4 091	1 714	2 876
Scrap	3 206	1 913	1 381	181	161
United Kingdom					
Ores & concentrates	603	164	257	119	574
Unwrought	119 676	122 458	119 911	84 594	97 066
Unwrought alloys	15 666	13 201	8 524	1 869	2 973
Scrap	334	30	103	344	447

Note(s)

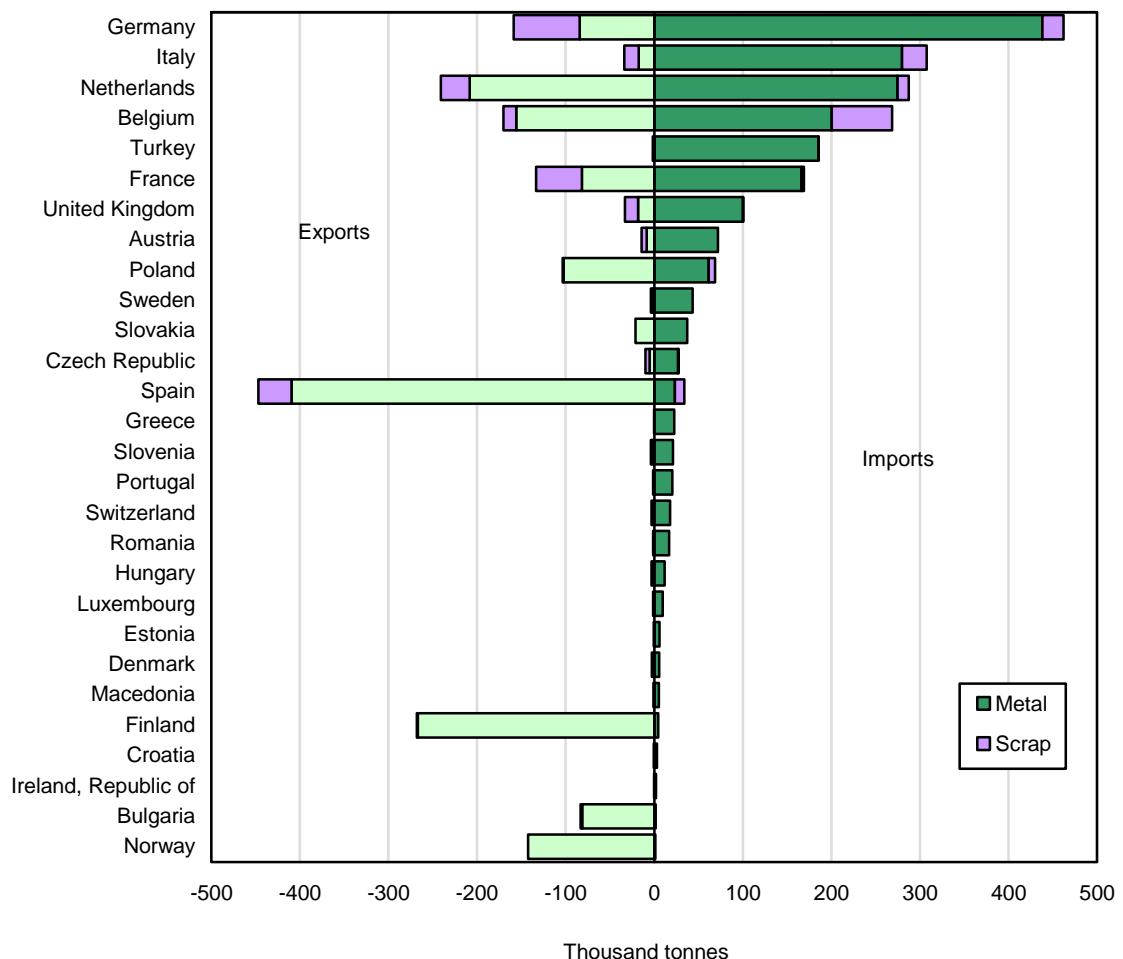
(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc.

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

Zinc ore - EU34 trade in 2010



Zinc - EU34 trade in 2010



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 14 countries in 2010. The largest producers in 2010 were Australia (39 per cent) and South Africa (27 per cent). There was no production in the EU34 countries.

Exports of zirconium

Country	2006	2007	2008	2009	2010
Belgium					
Concentrates	27 054	23 645	16 056	28 907	17 417
Metal	144	250	157	125	187
France					
Concentrates	2 316	1 832	1 440	1 243	2 044
Germany					
Concentrates (a)	* 11 500	* 16 900	* 12 000	* 7 300	* 10 800
Metal	434	514	625	386	384
Italy					
Concentrates	23 472	25 596	41 296	33 219	41 784
Metal	260	630	233	274	136
Netherlands					
Concentrates	7 391	14 539	8 223	4 639	11 091
Slovenia					
Concentrates	1 186	509	202	22	25
Spain					
Concentrates	9 811	11 803	14 151	13 581	28 166
Metal	110	200	525	746	51
United Kingdom					
Concentrates	902	1 096	716	742	1 405

Note(s)

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

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

Imports of zirconium

Country	2006	2007	2008	2009	2010
Austria					
Concentrates	1 285	2 054	2 163	1 298	1 680
Belgium					
Concentrates	18 763	17 593	17 337	28 897	17 469
Metal	556	469	433	213	370
Bulgaria					
Concentrates	1 421	1 357	1 081	573	781
Czech Republic					
Concentrates	1 498	1 482	751	268	303
Metal	86	78	101	45	37
France					
Concentrates	48 973	47 719	55 030	25 087	25 310
Metal	378	570	456	553	326
Germany					
Concentrates (a)	* 339 300	* 336 100	* 294 000	* 141 200	* 204 800
Metal	571	880	791	664	798
Greece					
Concentrates	466	547	429	122	93
Hungary					
Concentrates	...	2 427	2 439	1 265	2 455
					345

Zirconium

Imports continued

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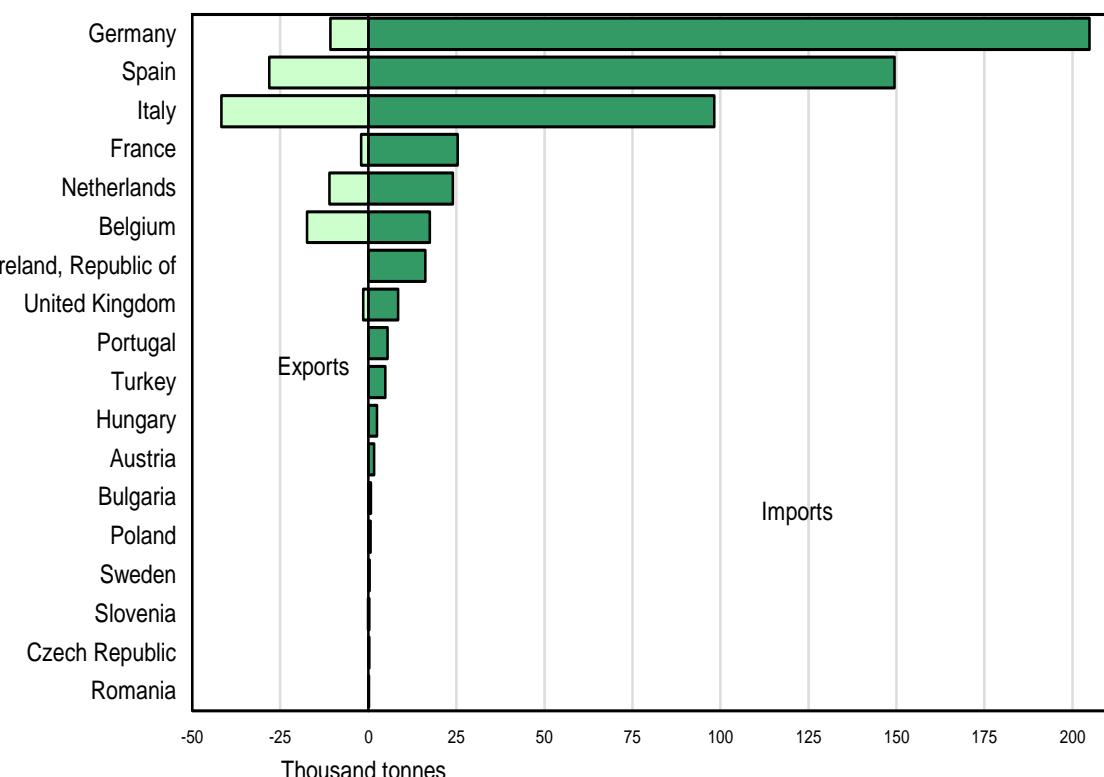
Country	2006	2007	2008	2009	2010
Ireland, Republic of					
Concentrates	258	425	3 976	1 323	16 162
Italy					
Concentrates	143 672	114 838	129 999	53 845	98 214
Metal	128	315	130	226	144
Netherlands					
Concentrates	15 948	20 462	24 694	11 027	23 981
Metal	123	199	240	* 70	188
Poland					
Concentrates	863	542	833	340	648
Portugal					
Concentrates	6 426	7 205	8 162	5 620	5 475
Romania					
Concentrates	766	303	437	190	230
Metal	32	16	136	301	35
Slovenia					
Concentrates	443	550	548	227	330
Spain					
Concentrates	149 710	138 442	152 604	95 103	149 442
Metal	55	65	136	83	132
Sweden					
Concentrates	750	825	832	248	419
Metal	134	219	185	218	220
Turkey					
Concentrates	1 118	980	4 844	2 918	4 823
United Kingdom					
Concentrates	13 729	11 007	13 092	6 386	8 450
Metal	467	446	521	203	411

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

Zirconium concentrates - EU34 trade in 2010



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 (with an estimated 36 per cent of world production) was the largest in the world in 2010 and was the only EU34 producer.

Production of borates

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Country	2006	2007	2008	2009	2010
Turkey	2 373 345	1 997 163	2 139 224	1 687 102	1 910 000

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 2010, 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	2006	2007	2008	2009	2010
Norway	312 000	312 000	346 000	270 000	327 000

Perlite

Perlite is a silicate mineral that results from the alteration of natural glass with the chemical composition of granite. Upon heating the mineral swells and dewater — resulting in a sudden increase in volume accompanied by a decrease in density. It has remarkable thermal insulation properties, porosity, chemical stability, low flammability, high heat resistance and high sound absorption. It is chiefly used in building materials.

More than 20 countries are believed to produce perlite. Greece is the largest perlite producer in the world, followed by Iran, China and the USA.

Production of perlite

tonnes

Country	2006	2007	2008	2009	2010
Bulgaria	4 500	13 900	7 400	14 800	—
Greece	1 049 000	1 100 000	1 000 000	862 935	760 000
Hungary	71 019	67 542	132 000	82 058	80 000
Italy	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Slovakia	10 560	20 000	25 000	25 000	23 000
Turkey	* 160 000	* 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 2010 was Japan, followed by Germany and Belgium.

Production of selenium metal

Country	2006	2007	2008	2009	2010
Belgium	* 200	* 200	* 200	* 200	* 200
Finland	70	52	65	66	* 66
Germany	* 250	* 250	* 250	* 230	* 250
Poland	87	85	82	80	80
Sweden	135	126	139	129	* 130

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 83 per cent of world production in 2010. Spain is the second largest known producer in the world, contributing nearly ten per cent to the world total.

Production of strontium minerals

Country	2006	2007	2008	2009	2010
Spain	280 195	142 512	138 590	57 466	83 035
Turkey	* 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 and in 2010 it maintained this position with a further 28 per cent increase in output compared to 2009. Kazakhstan contributed 33 per cent to the world total in 2010 compared to Canada's 18 per cent and Australia's 11 per cent. In the EU34, 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	2006	2007	2008	2009	2010
Czech Republic	383	322	290	286	259
Germany	65	41	—	—	* 8
Romania	* 90	* 77	* 77	* 75	* 77

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 2010 with an estimated 49 per cent of world production. Spain and Finland were the only EU34 producers, together contributing less than four per cent to world production.

Production of wollastonite

tonnes

Country	2006	2007	2008	2009	2010
Finland	16 200	16 364	15 600	* 16 000	* 16 000
Spain	...	10 918	10 100	7 000	6 000

Note(s)

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

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