

European Mineral Statistics



2007-11



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BRITISH GEOLOGICAL SURVEY

European Mineral Statistics 2007–11

A product of the World Mineral Statistics database

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Cover photograph: Odde zinc smelting plant operated by Boliden on the west coast of Norway. The majority of the raw material supplying the smelter comes from Boliden's own mines in Sweden and Ireland. The plant produces pure zinc, zinc alloys, sulphuric acid and aluminium fluoride which are predominantly sold within Europe. Further information can be obtained from www.boliden.com Photo © Boliden

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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 organisations, 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 – 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.

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, Serbia and Turkey; this group of 35 countries is for convenience referred to as 'EU35'.

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 eg 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.

2.2 European situation

The total volumes of primary aggregates production 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, eg Finland, produce approximately equal quantities of sand and 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

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

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. Crushed rock produced from onshore sites is also conveyed by sea from Norway and Scotland.

It should also be borne in mind that recycled and secondary aggregates have become an increasingly important part of supply, in response to environmental constraints on the production of primary (quarried) material. The categorisation of these recycled and secondary aggregates varies from country to country and these materials are not included in this volume.

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, eg bauxite, chromite, ilmenite and also 'construction minerals' used for non-construction purposes, eg 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 kaolinic 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.

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.

Table 2 EU35 production of selected industrial minerals as world percentages

<i>Industrial mineral</i>	<i>% of world</i>	<i>EU35 countries with > 2% of world output in 2011</i>
Feldspar	57.3	Italy (22.5%), Turkey, France, Spain, Poland
Kaolin	35.7	Germany (19.1%), UK, Czech Republic, Turkey
Salt	21.7	Germany (6.2%), Netherlands, UK, France
Bentonite	18.8	Greece (8.1%), Turkey, Germany
Magnesite	17.1	Turkey (4.3%), Austria, Slovakia, Spain
Gypsum	15.2	Spain (5.0%)
Talc	14.4	Finland (5.5%), France
Mica	13.1	France (6.2%), Finland
Potash	11.7	Germany (9.2%)
Diatomite	10.7	Spain (3.1%), Denmark, France
Barytes	3.6	Turkey (2.5%)
Fluorspar	3.6	Spain (2.0%)

4. Metals

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

Certain European countries are major mine producers of particular metals, but the majority of European countries depend chiefly on imports from other continents. The overall EU35 position of mine production of selected metals in 2011 is shown in Table 3.

Table 3 EU35 mine production of selected metals as world percentages.

<i>Metal</i>	<i>% world</i>	<i>EU35 countries with > 1% of world output in 2011</i>
Chromium	11.3	Turkey (8.7%), Finland
Silver	8.7	Poland (5.0%), Sweden, Turkey
Zinc	7.5	Ireland (2.7%), Sweden, Turkey
Titanium	7.4	Norway (7.4%)
Lead	5.8	Sweden (1.3%), Ireland
Copper	5.7	Poland (2.6%)
Nickel	3.9	Greece (1.2%), Finland
Tungsten	2.8	Austria (1.2%), Portugal
Gold	1.7	–
Aluminium (bauxite)	1.4	–
Iron	1.2	–

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 a major exporter of petroleum from the EU35 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.

'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.

The overall EU35 position with regard to production of energy minerals in 2011 is shown in Table 4.

Table 4 EU35 production of energy minerals as world percentages.

<i>Mineral</i>	<i>% world</i>	<i>EU35 countries with > 1% of world output 2011</i>
Natural gas	8.2	Norway (3.0%), Netherlands, United Kingdom
Coal	9.1	Germany (2.4%), Poland, Turkey
Petroleum	5.0	Norway (2.5%), United Kingdom
Uranium	0.7	-

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Gypsum	225	Tin	320
Iodine	230	Titanium	324
Iron ore	231	Tungsten	329
Iron and steel	234	Uranium	344
Kaolin	250	Vanadium	332
Lead	253	Wollastonite	345
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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.

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 Metal Statistics is also gratefully acknowledged.

Supplementary information is also obtained from publications dealing with a wider range of commodities such as Société de l'Industrie Minérale, *Annuaire Statistique Mondial des Minerais et Métaux*; 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: Eurostat; Kaolin and Plastic Clays Europe; World Steel Association; Eurofer; World Nuclear Association; European Aggregates Association; Energy Information Agency; Inmet Mining; Aluminium de Grece; New Boliden; Eurozinc Mining Corporation; Lundin Mining; Nyrstar; Lapland Gold Miners; Outokumpu; Dragon Mining; Agnico Eagle Mines, Talvivaara, Endomines; Norsk Hydro; Xstrata; Vereinigung der Osterreichischen 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; National Statistical Service of

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Units

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

tonnes × 0.9842 = long tons

tonnes × 1.1023 = short tons

kilograms × 2.2046 = pounds

kilograms × 32.1507 = troy ounces

cubic metres × 35.3147 = cubic feet

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

1 flask mercury = 34.5 kilograms

1 metric ton unit = 10 kilograms

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

Symbols

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

Table notes for country tables

Aggregates – production

- (1) So far as possible, these statistics include construction sands; gravel, pebbles, shingle and flint; crushed stone used for concrete aggregates, roadstone and other construction use; granules, chippings and powders
- (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 EU35 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
- (2) The figures represent alumina produced from bauxite. Alumina-rich materials can also be derived from salt slags formed during the production of secondary aluminium

Primary aluminium – production

- (1) The figures are for primary aluminium only. Aluminium can also be produced from secondary sources and may be recovered from salt slags

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 attapulgitite, 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, eg 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 and 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

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 electro-winning processes and by recovery from effluents

Mica – exports and imports

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

Molybdenum – exports and imports

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

Nickel – smelter/refinery production

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

Nickel – exports and imports

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

Crude petroleum – production

- (1) The figures include natural gas liquids

Natural gas – production

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

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) Wherever possible, figures relate to quantities of platinum group metals thought to be recovered from ores originating in the country stated
- (2) 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
- (2) Production capacity for synthetic mullite also exists in the United Kingdom but output is believed to be zero

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 – smelter production

- (1) Figures include both primary and secondary metal

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	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel (a)	tonnes	29 230 545	32 440 624	30 238 150	30 182 855	35 507 353
Crushed rock (a)	tonnes	25 248 136	33 867 686	29 784 794	24 399 380	26 866 150
Cement						
Cement, clinker	tonnes	221 684	287 911	160 223	54 369	131 734
Cement, finished	tonnes	5 518 303	6 131 257	4 847 862	4 499 402	4 700 040
Copper, refined	tonnes	81 400	106 700	96 200	113 700	112 500
Graphite (b)	tonnes	—	250	750	420	925
Gypsum (c)	tonnes	1 063 844	1 087 259	910 945	872 273	815 438
Iron ore (d)	tonnes	2 152 825	2 032 671	2 002 131	2 068 853	2 206 910
Pig iron	tonnes	5 908 000	5 795 000	4 353 000	5 621 000	5 815 000
Crude steel	tonnes	7 577 000	7 594 000	5 662 000	7 206 000	7 474 000
Ferro-alloys						
Ferro-molybdenum	tonnes	5 000	4 500	4 000	4 000	4 000
Ferro-nickel	tonnes	3 000	2 000	2 500	2 500	2 500
Ferro-vanadium	tonnes	6 500	6 300	6 200	8 000	8 000
Kaolin	tonnes	16 929	16 460	18 148	18 914	18 897
Lead, refined	tonnes	28 500	26 900	22 200	25 500	26 200
Magnesite	tonnes	811 556	837 476	544 716	757 063	867 912
Nickel, smelter/refinery	tonnes	900	500	700	1 000	1 000
Crude petroleum	tonnes	853 548	861 639	905 031	875 969	838 052
Natural gas	million m ³	1 835	1 544	1 559	1 713	1 591
Salt						
Rock salt	tonnes	1 172	503	50	95	169
Salt in brine	tonnes	735 724	866 674	1 035 044	1 071 842	1 150 474
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	50 501	48 024	48 624	40 512	48 612
Talc	tonnes	153 409	154 577	111 388	138 367	132 018
Tungsten, mine	tonnes (metal content)	1 117	1 122	887	975	861

Notes

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

(a) Sales

(b) Crude

(c) Including anhydrite

(d) Including micaceous iron oxide

(e) From petroleum refining and/or natural gas

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	3 394 988	3 130 358	2 634 211	2 828 621	2 646 753
Aluminium and bauxite						
Unwrought	tonnes	8 294	4 120	2 332	3 236	2 344
Unwrought alloys	tonnes	111 571	109 757	98 966	151 559	209 748
Scrap	tonnes	91 960	90 825	118 028	122 057	105 138
Barytes	tonnes	3 023	2 440	1 276	345	618
Bentonite	tonnes	5 589	5 225	4 350	3 447	4 954
Bismuth						
Metal	tonnes	12	1	1	8	5
Cement						
Cement clinkers	tonnes	189 450	243 906	146 991	46 560	173 312
Portland cement	tonnes	314 112	344 338	272 440	213 082	330 710
Other cement	tonnes	59 361	82 570	56 934	50 592	25 432
Chromium						
Ores and concentrates	tonnes	491	833	333	4	1 163
Metal	tonnes	14 739	6 596	5 845	10 245	2 138
Cobalt						
Metal	tonnes	19	31	60	72	60

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Matte and cement	tonnes	2 323	719	3 109	960	0
Scrap	tonnes	38 642	35 582	50 748	52 702	55 454
Unwrought, unrefined	tonnes	34	75	217	7 636	7 780
Unwrought, refined	tonnes	82 951	114 903	115 480	135 132	128 551
Unwrought alloys	tonnes	1 239	938	1 058	804	690
Diamond						
Unsorted	Carats	£85 000	£71 000	£189 000	£729 000	£3 302 000
Gem, cut	Carats	£2 792 000	£5 778 000	£4 053 000	£3 564 000	£6 211 000
Dust	Carats	£115 000	£165 000	£260 000	£225 000	£ 66 000
Diatomite	tonnes	4 455	3 043	3 286	3 467	2 756
Feldspar	tonnes	15 058	15 194	14 025	13 474	11 807
Gold						
Metal	kilograms	14 900	18 700	18 800	27 800	22 500
Waste and scrap	kilograms	17 300	2 200	2 700	5 900	2 900
Graphite	tonnes	7 460	8 853	6 260	9 518	9 936
Gypsum						
Crude	tonnes	89 128	26 402	20 694	19 124	23 007
Calcined	tonnes	121 473	89 906	78 839	55 927	76 548
Iodine	kilograms	324	139	339	564	413
Iron, steel and ferro-alloys						
Pig iron	tonnes	6 958	7 539	2 354	4 476	3
Ferro-alloys	tonnes	9 100	7 541	5 953	2 618	1 690
Silicon metal	tonnes	5 166	5 412	4 795	7 403	597
Ingots, blooms, billets	tonnes	286 765	284 063	187 410	190 343	293 647
Scrap	tonnes	1 279 775	1 351 725	1 067 926	1 034 398	950 865
Kaolin	tonnes	2 292	2 445	8 954	27 908	6 588
Lead						
Unwrought	tonnes	13 629	13 844	12 512	16 427	15 619
Scrap	tonnes	1 018	600	2 173	871	729
Lithium						
Carbonate	tonnes	45	28	10	170	166
Magnesite and magnesia						
Magnesite	tonnes	760	602	1 746	989	780
Magnesia	tonnes	57 964	28 779	26 716	39 589	79 519
Mercury	kilograms	5 000	200	2 000	(a)* 3 300	(a)* 1 600
Mica	tonnes	4 234	4 274	3 328	4 303	4 245
Molybdenum						
Metal (a)	tonnes	* 3 500	* 3 000	* 1 800	* 2 300	* 2 800
Nickel						
Scrap	tonnes	2 208	1 910	1 775	1 606	2 709
Unwrought (b)	tonnes	333	225	265	208	234
Natural gas	tonnes	2 688 210	2 812 303	2 164 960	2 645 056	2 945 349
Platinum metals						
Platinum and platinum metals	kilograms	£30 801 000	£52 298 000	£38 485 000	£83 434 000	£110 119 000
Waste and scrap	kilograms	£621 000	£621 000	£295 000	£1 070 000	£757 000
Potash						
Potassic fertilisers	tonnes	13 595	14 613	13 843	20 259	19 304
Rare earths						
Metals	tonnes	359	373	244	258	452
Cerium compounds	tonnes	2 596	2 702	2 035	1 936	1 167
Other rare earth compounds	tonnes	9 039	8 508	8 437	8 658	4 902
Salt	tonnes	235 775	388 681	491 981	500 126	392 506
Silver						
Metal	kilograms	115 100	95 000	98 600	100 300	136 000
Sulphur and pyrites						
Pyrites	tonnes	2 645	2 672	1 740	2 794	2 887
Sulphur	tonnes	3 006	3 292	472	90	140
Sulphur, sublimed and precipitated	tonnes	492	3 906	7 423	1 145	746
Talc	tonnes	153 457	135 390	106 423	106 271	115 967
Tantalum and niobium						
Tantalum	tonnes	13	20	35	27	29
Tin						
Unwrought (b)	tonnes	167	177	71	60	98
Scrap	tonnes	103	141	53	49	56

Austria

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Titanium						
Metal	tonnes	576	717	203	129	224
Oxides	tonnes	4 885	6 444	5 344	5 956	4 794
Tungsten						
Metal (a)	tonnes	* 1 600	* 1 600	* 4 300	* 3 000	* 2 400
Zinc						
Unwrought (b)	tonnes	14 682	13 794	5 703	8 532	9 776
Scrap	tonnes	2 132	8 176	6 052	5 757	8 583

Notes

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

(b) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	3 961 223	3 447 013	2 924 359	2 284 169	2 184 095
Aluminium and bauxite						
Bauxite	tonnes	16 717	21 727	2 370	8 489	7 842
Alumina	tonnes	49 728	55 639	27 193	47 681	53 232
Alumina hydrate	tonnes	16 056	20 205	13 219	12 914	12 821
Unwrought	tonnes	140 286	154 792	103 145	177 751	197 795
Unwrought alloys	tonnes	250 209	218 902	175 583	239 493	280 502
Scrap	tonnes	161 995	170 315	168 055	268 845	282 707
Antimony						
Metal	tonnes	104	63	64	37	214
Oxide	tonnes	277	245	192	249	204
Barytes	tonnes	4 898	6 234	2 733	3 115	4 711
Bentonite	tonnes	58 727	68 703	66 575	90 229	83 313
Bismuth						
Metal	tonnes	42	148	80	130	138
Bromine	kilograms	463 900	488 000	65 300	318 400	238 900
Cement						
Cement clinkers	tonnes	520 714	456 127	404 998	407 616	393 132
Portland cement	tonnes	626 723	753 529	639 545	637 550	913 116
Other cement	tonnes	39 568	40 766	52 715	71 535	60 349
Chromium						
Ores and concentrates	tonnes	39 071	42 008	25 891	54 945	20 921
Metal	tonnes	14 480	8 006	4 325	6 109	7 868
Coal						
Hard coal (a)	tonnes	4 509 917	4 118 906	4 082 877	3 618 128	3 365 054
Lignite	tonnes	53 331	46 392	72 734	68 777	74 609
Briquettes	tonnes	13 045	26 474	30 538	34 999	35 695
Cobalt						
Metal	tonnes	631	740	331	653	718
Oxides	tonnes	4	40	5	10	9
Copper						
Scrap	tonnes	91 043	113 109	134 063	145 903	130 675
Unwrought, unrefined	tonnes	26 678	39 590	24 445	36 218	44 412
Unwrought, refined	tonnes	20 614	8 855	4 868	10 361	16 680
Unwrought alloys	tonnes	2 485	1 866	1 617	1 412	1 376
Diamond						
Unsorted	Carats	£957 000	£1 648 000	£543 000	£729 000	£3 445 000
Gem, cut	Carats	£6 405 000	£8 881 000	£9 795 000	£9 838 000	£19 112 000
Industrial	Carats	£884 000	£473 000	£313 000	£193 000	£5 500
Dust	Carats	26 000 000	33 000 000	17 000 000	30 000 000	38 000 000
Diatomite	tonnes	13 710	12 561	16 327	13 324	12 798
Feldspar	tonnes	3 816	1 928	1 933	2 433	2 804
Fluorspar	tonnes	2 517	3 405	1 956	3 490	2 911

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Gold						
Metal	kilograms	30 900	72 300	86 500	56 600	63 500
Waste and scrap	kilograms	100	400	1 700	1 400	2 400
Graphite	tonnes	17 757	30 863	4 622	18 501	21 867
Gypsum						
Crude	tonnes	14 651	10 118	12 098	22 432	84 817
Calcined	tonnes	97 281	67 712	73 588	70 850	72 696
Iodine	kilograms	145 500	139 700	204 100	213 000	198 500
Iron ore (b)	tonnes	9 061 870	7 996 632	6 095 762	9 309 860	9 966 338
Iron, steel and ferro-alloys						
Pig iron	tonnes	69 614	43 663	30 084	25 355	30 367
Sponge and powder	tonnes	31 775	56 471	13 980	13 537	18 585
Ferro-chrome	tonnes	49 977	47 748	20 400	29 355	38 422
Ferro-silico-magnesium	tonnes	1 746	2 021	1 843	3 681	4 956
Ferro-manganese	tonnes	38 857	36 491	18 962	17 840	21 671
Ferro-silico-manganese	tonnes	30 340	22 322	17 927	22 976	19 931
Ferro-molybdenum	tonnes	1 370	1 552	801	742	1 402
Ferro-niobium	tonnes	956	1 125	665	1 061	1 191
Ferro-phosphorus	tonnes	1 692	2 011	1 095	1 232	2 497
Ferro-silicon	tonnes	26 180	27 850	12 825	27 063	33 709
Ferro-titanium and ferro-silico-titanium	tonnes	793	879	388	471	630
Ferro-tungsten and ferro-silico-tungsten	tonnes	796	1 277	208	552	715
Other ferro-alloys	tonnes	193	350	33	166	1 038
Silicon metal	tonnes	16 581	15 601	7 288	11 497	10 180
Ingots, blooms, billets	tonnes	208 910	191 426	46 762	159 527	186 929
Scrap	tonnes	1 371 393	1 629 170	1 196 327	991 574	1 016 301
Kaolin	tonnes	218 813	226 682	192 860	194 396	187 831
Lead						
Unwrought	tonnes	27 015	27 475	21 580	19 391	31 675
Lithium						
Carbonate	tonnes	248	333	327	402	463
Magnesite and magnesia						
Magnesite	tonnes	933	2 319	937	848	1 512
Magnesia	tonnes	317 952	248 037	21 708	272 232	214 788
Manganese						
Ores and concentrates	tonnes	383	215	184	152	334
Metal	tonnes	17 543	14 275	11 512	16 696	21 123
Mercury	kilograms	5 322	587	360	383	200
Mica	tonnes	722	857	492	874	656
Molybdenum						
Metal	tonnes	1 243	1 502	430	548	951
Nickel						
Scrap	tonnes	605	1 164	367	440	527
Unwrought (a)	tonnes	7 874	10 511	4 142	6 894	9 231
Crude petroleum	tonnes	7 645 010	7 945 639	7 428 183	6 770 069	7 358 582
Natural gas	tonnes	6 988 269	7 136 000	7 566 509	8 697 934	9 390 448
Phosphate rock	tonnes	106 018	(c)* 158 000	(c)* 58 000	(c)* 160 000	61 030
Platinum metals						
Platinum and platinum metals	kilograms	1 100	700	1 600	1 400	4 100
Waste and scrap	kilograms	...	100	—	100	21 400
Potash						
Sulphate	tonnes	13 026	10 432	4 241	15 074	9 595
Chloride	tonnes	123 747	119 347	28 000	105 299	102 028
Other potassic fertilisers	tonnes	26 199	25 862	9 139	18 201	9 418
Rare earths						
Metals	tonnes	512	561	269	550	325
Cerium compounds	tonnes	3 431	3 487	1 985	1 766	1 310
Other rare earth compounds	tonnes	3 762	3 589	2 471	3 375	1 646
Salt	tonnes	143 538	105 335	230 979	293 799	291 187
Sillimanite minerals	tonnes	3 160	2 639	1 353	2 089	2 224
Silver						
Metal	kilograms	151 600	441 900	431 500	481 800	804 000
Sulphur and pyrites						
Pyrites	tonnes	3 809	3 754	1 614	3 154	3 321
Sulphur	tonnes	84 659	89 038	68 881	75 065	70 892
Sulphur, sublimed and precipitated	tonnes	5 556	17 842	14 961	15 331	22 109

Austria

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Talc	tonnes	58 500	68 797	37 648	74 554	93 985
Tantalum and niobium						
Tantalum	tonnes	70	—	—	17	4
Tin						
Unwrought (d)	tonnes	2 486	2 679	1 915	2 923	3 403
Titanium						
Titanium minerals	tonnes	451	520	362	477	580
Metal	tonnes	3 851	2 455	1 346	1 381	2 590
Oxides	tonnes	26 856	30 861	28 258	28 288	32 258
Tungsten						
Metal	tonnes	548	435	369	632	1 471
Carbide	tonnes	...	...	568	1 268	1 241
Vanadium						
Vanadiferous residues	tonnes	* 37 000	* 36 000	* 35 000	* 46 000	* 46 000
Ores and concentrates	tonnes	543	460	...	...	...
Zinc						
Unwrought	tonnes	65 391	61 877	37 864	37 560	47 394
Unwrought alloys	tonnes	33 939	33 911	27 886	34 411	38 759
Zirconium						
Concentrates	tonnes	2 054	2 163	1 298	1 680	1 994

Notes

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

Belgium

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel (a)(b)	tonnes	* 8 600 000	* 8 600 000	* 8 000 000	* 8 000 000	* 8 000 000
Crushed rock (a)(c)	tonnes	* 43 000 000	* 42 000 000	* 43 000 000	* 44 000 000	* 44 000 000
White arsenic	tonnes	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Cement						
Cement, clinker	tonnes	...	...	1 123 722	858 871	* 900 000
Cement, finished	tonnes	6 930 000	7 135 000	6 113 000	5 990 000	6 844 000
Cobalt metal (d)	tonnes	2 825	3 020	2 150	2 600	3 187
Copper, refined	tonnes	394 000	395 800	373 700	389 000	393 600
Indium	tonnes	* 30	* 30	* 30	* 30	* 30
Pig iron	tonnes	6 577 000	6 977 000	3 087 000	4 688 000	4 700 000
Crude steel	tonnes	10 692 000	10 673 000	5 635 000	7 973 000	8 026 000
Kaolin	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Lead, refined	tonnes	117 000	104 000	109 000	121 000	119 000
Selenium metal	tonnes	* 200	* 200	* 200	* 200	* 200
Tin, smelter	tonnes	8 400	9 200	8 700	9 900	10 000
Slab zinc	tonnes	254 000	251 000	137 000	281 000	282 000

Notes

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

- (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	2007	2008	2009	2010	2011
Primary aggregates	tonnes	15 588 032	15 097 819	13 354 957	12 427 043	13 083 592
Aluminium and bauxite						
Bauxite	tonnes	75 904	53 444	44 530	48 683	37 533
Alumina	tonnes	13 629	4 858	5 666	7 516	21 284
Unwrought	tonnes	164 800	160 684	121 708	257 888	150 542
Unwrought alloys	tonnes	37 009	32 273	22 665	14 204	30 285
Scrap	tonnes	188 642	179 137	219 846	274 819	321 484
Antimony						
Ores and concentrates	tonnes	301	228	530	433	274
Metal	tonnes	974	494	533	776	732
Oxide	tonnes	11 643	9 636	8 811	10 599	10 417
Arsenic						
Metallic arsenic	tonnes	117	77	42	114	120
Barytes	tonnes	506	1 381	2 638	3 216	213
Bentonite	tonnes	18 504	34 034	36 263	28 632	28 512
Bismuth						
Metal	tonnes	355	162	413	1	6
Bromine	kilograms	17 271 400	20 752 500	17 466 300	12 619 000	25 002 100
Cadmium						
Metal	tonnes	181	442	452	459	545
Oxide	tonnes	6 160	4 677	4 033	4 413	3 734
Cement						
Cement clinkers	tonnes	916 787	893 494	936 451	582 766	744 707
Portland cement	tonnes	2 008 842	1 960 360	1 722 252	1 676 150	1 729 402
Other cement	tonnes	575 332	556 870	417 798	410 909	353 126
Chromium						
Ores and concentrates	tonnes	11 339	48 086	15 562	18 415	13 945
Metal	tonnes	635	772	1 226	1 311	1 010

Belgium

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Coal						
Anthracite	tonnes	1 454 115	1 400 377	675 097	1 652 015	1 915 992
Other coal	tonnes	3 670 706	4 416 217	4 640 602	4 211 655	2 560 811
Lignite	tonnes	130	10 581	7 267	18 781	42 164
Briquettes	tonnes	6 812	11 331	11 452	18 899	40 374
Cobalt						
Ore	tonnes	1 204	1 112	1 227	633	2 431
Metal (a)	tonnes	* 21 600	* 7 000	* 4 700	* 4 400	* 2 400
Copper						
Ores and concentrates	tonnes	1 061	2 155	4 594	4 549	2 046
Matte and cement	tonnes	1 104	4 139	2 432	6 935	9 042
Scrap	tonnes	188 318	162 090	110 355	141 380	165 713
Unwrought, unrefined	tonnes	10 730	10 533	11 570	42 836	40 660
Unwrought, refined	tonnes	199 650	257 907	248 500	189 253	187 595
Unwrought alloys	tonnes	14 593	10 954	9 253	12 116	11 763
Crude petroleum	tonnes	2 422 211	2 496 349	2 390 390	2 593 653	2 278 613
Diamond						
Gem, rough	Carats	135 000 000	99 500 000	85 500 000	113 000 000	90 500 000
Gem, cut	Carats	8 001 010	5 950 000	5 178 000	6 034 000	6 232 100
Industrial	Carats	1 000 000	500 000	1 670 000	3 320 000	3 170 746
Dust	Carats	27 000 000	84 955 146	66 748 549	89 603 589	85 513 940
Diatomite	tonnes	1 140	2 612	1 907	3 004	3 122
Feldspar	tonnes	190	994	1 117	64	317
Fluorspar	tonnes	105 822	156 066	84 491	122 483	118 782
Gold						
Metal	kilograms	24 697	24 538	25 683	22 842	6 200
Waste and scrap	kilograms	128 400	134 500	29 100	173 700	67 800
Graphite	tonnes	438	3 815	2 634	993	1 316
Gypsum						
Crude	tonnes	54 953	89 626	113 954	92 533	101 382
Calcined	tonnes	3 039	3 817	1 823	177 046	(a)* 195 000
Iodine	kilograms	2 633 100	3 560 100	2 582 300	3 989 500	3 584 800
Iron ore	tonnes	41 440	85 701	178 567	366 331	455 069
Iron, steel and ferro-alloys						
Pig iron	tonnes	275 388	283 034	160 120	254 854	255 067
Sponge and powder	tonnes	36 997	20 732	14 655	35 395	10 029
Ferro-chrome	tonnes	54 201	38 927	20 403	25 965	23 538
Ferro-silico-chrome	tonnes	15 141	12 463	15 645	5 849	1 549
Ferro-manganese	tonnes	16 124	24 024	9 915	26 544	41 161
Ferro-silico-manganese	tonnes	52 431	40 777	31 374	48 652	47 762
Ferro-molybdenum	tonnes	20 153	17 759	16 396	19 593	20 134
Ferro-silicon	tonnes	68 383	54 905	47 214	23 071	33 676
Other ferro-alloys	tonnes	10 391	12 686	2 988	4 137	16 124
Silicon metal	tonnes	5 869	6 673	5 954	8 522	8 396
Ingots, blooms, billets	tonnes	1 008 252	908 563	279 680	487 535	484 510
Scrap	tonnes	2 957 464	3 250 800	3 245 159	3 754 403	3 533 560
Kaolin	tonnes	611 902	1 030 076	783 512	523 697	232 664
Lead						
Ores and concentrates	tonnes	96 059	114 105	148 562	101 160	167 055
Unwrought	tonnes	111 338	95 878	108 442	145 571	130 655
Scrap	tonnes	19 974	18 336	21 962	21 479	18 945
Lithium						
Oxides	tonnes	1 370	1 281	781	2 284	1 890
Carbonate	tonnes	4 915	3 567	3 042	4 539	4 428
Magnesite and magnesia						
Magnesite	tonnes	1 761	1 911	876	1 235	914
Magnesia	tonnes	64 293	81 909	59 644	96 513	58 237
Manganese						
Ores and concentrates	tonnes	15 819	8 578	5 192	4 444	9 982
Metal	tonnes	4 060	1 947	714	1 185	1 625
Mercury	kilograms	3 300	110 800	1 400	11 500	600
Mica	tonnes	3 226	2 127	1 562	1 590	2 363
Molybdenum						
Ores and concentrates	tonnes	22 340	11 314	15 581	24 396	25 337
Metal	tonnes	556	243	105	371	128
Oxides	tonnes	829	379	91	83	366

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Nickel						
Mattes, sinters etc	tonnes	68	115	921	697	2 380
Scrap	tonnes	4 954	2 872	6 883	3 443	7 430
Ores and concentrates	tonnes	1 423	2 750	1 212	724	1 161
Unwrought	tonnes	15 642	13 298	11 883	9 271	9 684
Unwrought alloys	tonnes	2 401	2 152	2 479	1 357	1 838
Oxides	tonnes	476	1 196	834	221	910
Natural gas	tonnes	20 807 227	59 248 950	7 659 165	11 792 847	23 022 897
Phosphate rock	tonnes	115 628	84 619	15 792	30 744	62 021
Platinum metals						
Platinum and platinum metals	kilograms	5 800	8 400	10 700	7 500	8 900
Waste and scrap	kilograms	592 300	649 800	315 200	497 000	218 400
Potash						
Chloride	tonnes	58 108	10 631	58 784	64 018	100 097
Rare earths						
Metals	tonnes	253	299	273	476	110
Rare earth compounds	tonnes	802	408	335	332	265
Salt	tonnes	55 134	61 012	125 255	288 679	354 644
Sillimanite minerals	tonnes	47 141	62 423	39 809	53 940	51 011
Silver						
Ores and concentrates	kilograms	47 600	33 100	6 200	12 300	2 149 800
Metal	kilograms	31 000	41 900	69 900	21 800	197 000
Sulphur and pyrites						
Sulphur	tonnes	18 391	75 305	74 232	21 533	34 087
Sulphur, sublimed and precipitated	tonnes	531	368	345	193	83
Talc	tonnes	165 105	139 619	112 983	128 526	125 040
Tantalum and niobium						
Tantalum	tonnes	3	26	2	4	2
Tin						
Concentrates	tonnes	68	161	42	127	95
Unwrought	tonnes	2 734	7 274	4 753	5 114	4 261
Unwrought alloys	tonnes	7 072	2 448	5 000	6 236	6 427
Scrap	tonnes	147	233	127	207	1 195
Titanium						
Titanium minerals	tonnes	129 501	100 134	58 654	106 478	116 859
Metal	tonnes	2 070	1 157	1 087	895	1 405
Oxides	tonnes	422 885	401 906	369 495	435 415	390 405
Titanium slag	tonnes	3 209	5 085	...	...	...
Tungsten						
Ores and concentrates	tonnes	...	62	120	27	406
Metal	tonnes	381	405	422	723	368
Carbide	tonnes	54	36	32	92	92
Vanadium						
Ores and concentrates	tonnes	346	327	131	...	...
Pentoxide	tonnes	10	8	47	80	...
Zinc						
Ores and concentrates	tonnes	479 796	733 794	785 125	749 582	725 335
Unwrought	tonnes	22 015	8 359	13 590	155 654	296 197
Unwrought alloys	tonnes	...	...	...	...	154 258
Scrap	tonnes	40 866	15 585	16 644	14 540	11 652
Zirconium						
Concentrates	tonnes	23 645	16 056	28 907	17 417	12 021
Metal	tonnes	250	157	125	187	272

Note

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	21 959 821	25 172 064	22 175 332	22 484 726	23 911 051
Aluminium and bauxite						
Bauxite	tonnes	85 954	88 892	40 837	75 600	52 727
Alumina	tonnes	27 079	13 959	7 265	19 028	20 406
Alumina hydrate	tonnes	45 870	34 834	29 635	34 978	52 806
Unwrought	tonnes	437 146	319 471	322 792	517 946	412 600
Unwrought alloys	tonnes	317 701	236 550	126 490	193 103	218 350
Scrap	tonnes	193 852	196 947	204 621	228 517	257 366
Antimony						
Metal	tonnes	11 904	8 837	7 511	10 280	9 451
Oxide	tonnes	2 218	801	624	904	831
Arsenic						
Metallic arsenic	tonnes	466	65	17	114	634
Asbestos						
Unmanufactured	tonnes	120	6	166	0	0
Barytes	tonnes	6 229	5 959	4 490	5 637	4 294
Bentonite	tonnes	42 671	74 216	62 885	72 971	91 291
Bismuth						
Metal	tonnes	111	190	9	1	45
Bromine	kilograms	21 768 500	26 540 000	20 618 700	18 693 500	28 221 500
Cadmium						
Metal	tonnes	5 038	5 511	3 439	6 456	5 932
Oxide	tonnes	2	10	28	43	109
Cement						
Cement clinkers	tonnes	746 734	627 133	684 634	740 528	717 664
Portland cement	tonnes	860 913	954 591	819 923	1 030 282	1 113 638
Other cement	tonnes	368 325	292 741	252 247	172 609	158 441
Chromium						
Ores and concentrates	tonnes	20 761	56 183	19 050	25 350	22 896
Metal	tonnes	1 177	1 097	871	1 593	3 023
Coal						
Anthracite	tonnes	2 822 426	3 964 878	1 436 499	2 660 267	3 382 132
Other coal	tonnes	9 620 488	10 171 283	5 807 413	6 851 382	5 887 514
Lignite	tonnes	272 708	365 152	256 167	362 257	411 424
Briquettes	tonnes	25 140	20 943	31 346	27 379	53 793
Cobalt						
Ore	tonnes	121	185	272	156	379
Metal	tonnes	275	255	249	222	368
Copper						
Ores and concentrates	tonnes	21 137	12 039	17 378	10 554	13 735
Matte and cement	tonnes	6 310	4 482	36 352	29 857	41 741
Scrap	tonnes	312 885	249 718	215 202	272 816	255 661
Unwrought, unrefined	tonnes	224 439	206 660	212 932	191 159	206 987
Unwrought, refined	tonnes	28 695	54 380	79 524	61 447	34 734
Unwrought alloys	tonnes	2 692	1 749	2 669	4 917	5 134
Diamond						
Unsorted	Carats	854 021	526 381	495 270	462 450	418 531
Gem, rough	Carats	63 500 000	55 000 000	44 000 000	63 000 000	67 500 000
Gem, cut	Carats	3 000 000	4 500 000	500 000	3 000 000	3 000 000
Industrial	Carats	7 500 000	8 000 000	3 500 000	3 000 000	1 000 000
Dust	Carats	17 000 000	63 000 000	35 000 000	61 000 000	58 000 000
Diatomite	tonnes	8 483	8 353	6 414	11 813	10 815
Feldspar	tonnes	25 951	34 837	27 113	24 495	22 623
Fluorspar	tonnes	129 159	169 219	91 928	134 266	145 776
Gold						
Metal	kilograms	8 100	15 600	13 100	10 100	9 100
Waste and scrap	kilograms	361 400	(a)* 61 400	(a)* 115 800	(a)* 339 000	(a)* 141 000
Graphite	tonnes	2 309	3 624	5 048	7 243	7 473
Gypsum						
Crude	tonnes	1 118 068	1 231 279	702 104	616 338	683 957
Calcined	tonnes	490 242	505 792	424 465	396 873	507 725
Iodine	kilograms	2 774 500	3 586 200	3 189 200	4 087 700	3 814 500
Iron ore						
Iron ore	tonnes	9 583 765	12 329 299	3 254 834	7 567 453	7 425 015
Burnt pyrites	tonnes	51	431	23 648	45	...

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	551 990	547 962	281 872	331 652	320 083
Sponge and powder	tonnes	33 504	22 005	19 389	39 503	54 212
Ferro-chrome	tonnes	452 116	378 017	185 381	263 715	248 006
Ferro-silico-chrome	tonnes	17 149	15 483	—	1 950	10 437
Ferro-silico-magnesium	tonnes	11 673	9 505	4 655	9 031	10 494
Ferro-manganese	tonnes	62 712	83 610	21 327	48 471	69 017
Ferro-silico-manganese	tonnes	101 380	63 577	36 931	72 195	77 001
Ferro-molybdenum	tonnes	5 405	2 339	2 215	2 160	3 261
Ferro-nickel	tonnes	90 808	89 430	46 248	48 017	64 242
Ferro-niobium	tonnes	2 675	1 530	1 089	1 890	1 598
Ferro-phosphorus	tonnes	2 116	10 421	3 124	2 612	1 459
Ferro-silicon	tonnes	146 267	118 585	62 888	92 785	105 445
Ferro-titanium and ferro-silico-titanium	tonnes	3 522	5 572	2 161	2 926	2 377
Other ferro-alloys	tonnes	528	494	8 184	443	238
Silicon metal	tonnes	17 236	20 015	18 995	23 566	21 688
Ingots, blooms, billets	tonnes	2 711 671	2 536 024	1 966 055	2 554 975	2 916 336
Scrap	tonnes	4 279 076	4 214 915	3 678 867	4 726 992	4 634 651
Kaolin	tonnes	853 701	1 465 754	905 784	1 001 057	890 863
Lead						
Ores and concentrates	tonnes	108 164	97 474	192 496	169 356	154 976
Unwrought	tonnes	36 620	30 413	18 121	14 467	27 696
Scrap	tonnes	54 915	25 873	34 085	31 992	33 219
Lithium						
Oxides	tonnes	1 784	1 851	1 179	2 410	2 953
Carbonate	tonnes	5 895	4 414	3 410	4 183	7 770
Magnesite and magnesia						
Magnesite	tonnes	3 148	2 357	1 412	3 820	2 076
Magnesia	tonnes	101 887	141 185	104 577	80 845	70 954
Manganese						
Ores and concentrates	tonnes	79 022	83 909	61 980	49 731	49 393
Metal	tonnes	6 403	4 423	3 076	4 377	5 466
Mercury	kilograms	7 800	133 100	15 700	57 200	12 500
Mica						
Unmanufactured	tonnes	417	2 155	3 454	2 636	2 395
Ground	tonnes	3 461	5 409	3 507	4 086	4 722
Waste	tonnes	4 364	2 067	45	8	120
Molybdenum						
Ores and concentrates	tonnes	43 932	37 964	37 101	46 899	42 498
Metal	tonnes	752	358	344	142	235
Oxides	tonnes	2 796	2 075	968	694	1 204
Nickel						
Mattes, sinters etc	tonnes	1 194	1 250	499	330	598
Scrap	tonnes	9 946	566	288	918	1 553
Unwrought	tonnes	37 466	29 492	12 037	15 052	19 170
Unwrought alloys	tonnes	403	723	1 915	469	574
Oxides	tonnes	241	618	565	700	1 033
Crude petroleum	tonnes	34 847 065	35 556 835	32 376 828	35 234 358	34 059 177
Natural gas	tonnes	11 194 656	11 419 294	14 431 349	14 144 704	13 250 074
Phosphate rock	tonnes	1 512 059	1 458 207	579 326	1 114 210	1 076 842
Platinum metals						
Platinum and platinum metals	kilograms	500	300	1 200	1 000	400
Potash						
Sulphate	tonnes	128 173	175 205	73 074	129 152	120 335
Chloride	tonnes	912 264	912 154	428 365	1 173 213	1 259 385
Other potassic fertilisers	tonnes	10 275	10 125	7 668	13 668	13 771
Rare earths						
Metals	tonnes	297	259	323	411	205
Cerium compounds	tonnes	489	258	419	323	289
Other rare earth compounds	tonnes	353	142	292	172	58
Ferro-cerium and other pyrophoric alloys	tonnes	2	3	62	2	0
Salt	tonnes	1 209 879	1 174 539	1 319 896	1 751 650	2 001 517
Sillimanite minerals						
Sillimanite minerals	tonnes	52 061	6 683	40 549	53 115	50 427
Mullite	tonnes	837 300	2 149	432	1 955	1 690

Belgium

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Silver						
Ores and concentrates	kilograms	195 900	253 700	1 567 600	6 000 300	7 619 600
Metal	kilograms	418 100	351 300	225 700	86 500	71 100
Sulphur and pyrites						
Sulphur	tonnes	503 523	611 170	460 990	592 348	562 688
Sulphur, sublimed and precipitated	tonnes	311	1 852	750	621	473
Talc	tonnes	202 584	194 823	149 757	183 625	175 662
Tin						
Concentrates	tonnes	17	318	16	200	488
Unwrought	tonnes	1 639	1 100	1 350	1 131	847
Unwrought alloys	tonnes	2 719	2 235	2 638	3 289	2 785
Scrap	tonnes	3 907	2 422	2 327	3 560	3 551
Titanium						
Titanium minerals	tonnes	221 156	204 688	110 028	181 688	213 276
Metal	tonnes	3 800	3 739	2 132	1 743	1 582
Oxides	tonnes	144 760	132 327	108 582	* 314 200	114 760
Tungsten						
Metal	tonnes	510	401	326	402	321
Carbide	tonnes	72	45	35	31	20
Vanadium						
Ores and concentrates	tonnes	162	200	123	...	...
Pentoxide	tonnes	64	38	94	123	95
Zinc						
Ores and concentrates	tonnes	1 100 875	(a)* 805 000	(a)* 444 500	1 129 207	1 182 797
Unwrought	tonnes	208 819	205 745	237 741	189 980	280 492
Unwrought alloys	tonnes	12 115	8 075	13 299	10 613	11 844
Scrap	tonnes	59 769	40 657	61 433	68 233	66 665
Zirconium						
Concentrates	tonnes	17 593	17 337	28 897	17 469	12 317
Metal	tonnes	469	433	213	370	480

Note

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

Bulgaria

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	17 607 212	19 697 937	12 882 651	5 199 000	10 134 216
Crushed rock	tonnes	12 199 339	21 094 047	15 667 880	16 876 900	16 851 576
Barytes	tonnes	50 900	40 100	14 300	500	200
Bentonite	tonnes	99 000	178 700	108 400	99 700	53 900
Bismuth, mine	tonnes (metal content)	* 45	* 45	* 45	* 45	* 45
Cadmium	tonnes	318	376	413	389	* 430
Cement						
Cement, clinker	tonnes	...	3 509 817	1 858 850	2 071 100	1 475 700
Cement, finished	tonnes	* 4 290 000	4 900 336	2 660 176	—	1 891 981
Coal						
Lignite	tonnes	25 325 000	26 007 800	25 014 800	27 148 300	34 496 200
Brown coal	tonnes	2 833 500	2 643 200	2 243 800	2 321 200	2 743 500
Copper, mine	tonnes (metal content)	116 157	107 195	110 652	112 904	114 603
Copper, refined	tonnes	69 900	114 200	183 600	195 400	201 100
Copper, smelter	tonnes	217 600	257 100	256 200	265 000	285 000
Feldspar	tonnes	* 90 000	* 90 000	* 80 000	* 80 000	* 80 000
Fluorspar	tonnes	—	—	32	10	31 800
Gold, mine	kilograms	3 964	4 160	4 482	4 489	5 302
Gypsum	tonnes	234 300	21 200	127 600	109 200	114 800
Pig iron	tonnes	1 069 000	441 000	—	—	—
Crude steel	tonnes	1 909 000	1 330 000	726 000	744 000	835 000
Ferro-alloys						
Ferro-silicon	tonnes	* 10 000	6 000	* 3 000	* —	* —
Kaolin	tonnes	* 240 000	* 220 000	* 140 000	* 190 000	* 250 000
Lead, mine (a)	tonnes (metal content)	17 768	14 577	12 981	12 705	14 369
Lead, refined	tonnes	87 000	90 900	83 100	80 600	71 000
Manganese ore	tonnes	27 900	39 100	28 300	106 000	85 600
Perlite	tonnes	13 900	7 400	14 800	—	—
Crude petroleum	tonnes	25 700	23 000	23 800	22 400	21 400
Natural gas	million m ³	295	218	15	74	443
Salt	tonnes	2 000 000	2 100 000	1 300 000	1 900 000	2 200 000
Silver, mine	kilograms (metal content)	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Zinc, mine (a)	tonnes	98 100	101 700	92 700	92 300	83 300
Slab zinc	tonnes (metal content)	14 453	12 819	9 339	9 904	10 977

Notes

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

(a) Metal content of ore

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	330 088	268 120	76 129	262 166	325 857
Aluminium and bauxite						
Unwrought alloys	tonnes	10 290	8 931	2 775	6 798	7 555
Scrap	tonnes	23 577	18 478	20 577	31 728	26 302
Barytes	tonnes	50 922	46 907	14 326	505	231
Bentonite	tonnes	74 412	103 106	79 359	72 183	67 118
Cadmium						
Metal	tonnes	434	374	569	474	421
Cement						
Cement clinkers	tonnes	353 996	120 588	14 836	5 246	8 131
Portland cement	tonnes	52 803	130 932	109 923	164 404	190 570
Other cement	tonnes	1 067	22 589	394	1 772	6 516
Coal						
Hard coal (a)	tonnes	17 358	36 095	11 511	76 508	126 229
Lignite	tonnes	—	53	5 862	9 525	2 744

Bulgaria

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Ores and concentrates	tonnes	168 155	105 889	134 910	86 171	131 874
Matte and cement	tonnes	6 335	3 559	4 749	5 048	5 827
Scrap	tonnes	11 590	10 547	10 717	18 226	12 982
Unwrought, unrefined	tonnes	139 251	146 271	73 379	7 926	10 844
Unwrought, refined	tonnes	45 761	105 747	153 025	206 309	353 450
Feldspar	tonnes	22 519	16 912	15 007	19 087	19 329
Gypsum						
Crude and calcined	tonnes	1 439	787	11 965	3 641	10 953
Iodine	kilograms	51 610	200	300	600	600
Iron, steel and ferro-alloys						
Pig iron	tonnes	62 032	23 553	1 420	1 141	854
Ferro-silico-manganese	tonnes	6 845	288	...	19	1
Ferro-silicon	tonnes	4 972	2 076	2 890	980	248
Other ferro-alloys	tonnes	2 072	550	9 867	2 115	312
Silicon metal	tonnes	2 374	46	1	3	7
Ingots, blooms, billets	tonnes	135 710	85 466	54 115	30 327	24 822
Scrap	tonnes	677 347	740 414	510 997	949 000	850 898
Kaolin	tonnes	160 372	139 069	119 736	159 669	197 114
Lead						
Ores and concentrates	tonnes	23 417	9 555	4 188	4 611	9 331
Unwrought	tonnes	66 384	80 972	77 713	78 977	68 472
Manganese						
Ores and concentrates	tonnes	19 335	17 369	29 715	163 257	91 110
Molybdenum						
Metal	tonnes	99	123	132	122	355
Nickel						
Scrap	tonnes	20	48	364	1 220	2
Platinum metals						
Waste and scrap (b)	kilograms	* 94 700	* 1 400	* 44 000	* 16 000	* 23 000
Salt	tonnes	13 943	8 239	2 689	1 078	6 074
Silver						
Ores and concentrates	kilograms	...	...	...	...	8 900
Metal	kilograms	49 468	36 516	58 565	37 300	35 200
Sulphur and pyrites						
Sulphur	tonnes	33 039	28 993	20 840	40 286	38 097
Titanium						
Metal	tonnes	28	835	2	—	849
Tungsten						
Metal	tonnes	33	20	2	80	11
Zinc						
Ores and concentrates	tonnes	4 384	7 982	2 076	22	1 607
Unwrought (c)	tonnes	90 573	96 678	87 008	81 332	71 894
Scrap	tonnes	1 511	1 293	2 226	1 949	2 021

Notes

(a) Including anthracite

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

(c) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Aluminium and bauxite						
Alumina	tonnes	2 368	1 370	1 859	2 887	1 875
Unwrought	tonnes	39 850	42 738	39 759	44 468	43 192
Unwrought alloys	tonnes	19 617	18 557	16 050	27 444	35 685
Scrap	tonnes	3 554	4 028	3 014	6 897	4 625
Antimony						
Metal	tonnes	100	35	40	45	38
Arsenic						
Metallic arsenic	tonnes	30	12	11	3	10

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Bentonite	tonnes	2 979	3 386	2 422	2 548	2 591
Cement						
Cement clinkers	tonnes	123 806	248 737	45 002	16 167	17 478
Portland cement	tonnes	5 690	13 645	481 991	448 220	431 780
Other cement	tonnes	1 829	1 110	955	2 510	6 147
Chromium						
Ores and concentrates	tonnes	969	793	637	671	971
Coal						
Anthracite	tonnes	2 229 619	2 841 458	1 938 000	1 858 397	2 203 775
Other coal	tonnes	2 415 165	2 054 649	1 130 146	1 081 783	1 032 074
Briquettes	tonnes	112 775	66 676	10 238	46 754	19
Copper						
Ores and concentrates	tonnes	539 325	609 258	635 039	575 192	836 387
Matte and cement	tonnes	10 025	34 997	15 160	13 642	2 006
Unwrought	tonnes	28 226	30 422	8 016	8 272	12 441
Scrap	tonnes	12 899	23 856	20 730	35 464	52 461
Diamond						
Dust	Carats	14 770 306	7 623 860	4 940 300	7 251 395	8 000 000
Diatomite	tonnes	436	587	404	249	310
Feldspar	tonnes	35 851	31 346	54 178	86 861	86 056
Fluorspar	tonnes	1 326	651	778	700	1 742
Gold						
Metal	kilograms	1 676	8 692	56	55	1 596
Graphite	tonnes	250	158	132	66	65
Gypsum						
Crude	tonnes	8 240	12 223	15 830	6 239	11 399
Calcined	tonnes	58 880	70 280	42 086	44 383	37 323
Iodine	kilograms	6 500	2 900	2 900	2 300	2 800
Iron ore						
Iron ore	tonnes	919 785	208 559	3 110	7 991	1 265
Burnt pyrites	tonnes	464 580	188 923	15 831	16 653	16 679
Iron, steel and ferro-alloys						
Pig iron	tonnes	26 932	27 941	6 736	14 781	17 521
Sponge and powder	tonnes	31 306	1 282	14 572	317	294
Ferro-chrome	tonnes	916	656	182	356	578
Ferro-manganese	tonnes	7 981	4 206	3 137	3 137	6 280
Ferro-silico-manganese	tonnes	3 336	4 325	3 479	4 291	6 324
Ferro-silicon	tonnes	2 977	3 331	1 152	2 520	3 246
Other ferro-alloys	tonnes	2 390	1 906	1 033	1 060	4 811
Ingots, blooms, billets	tonnes	462 348	567 381	306 020	258 743	411 534
Scrap	tonnes	295 555	237 055	202 276	269 483	230 401
Kaolin	tonnes	29 717	28 748	20 623	23 784	25 789
Lead						
Ores and concentrates	tonnes	92 929	119 522	63 185	81 307	74 810
Unwrought	tonnes	15 854	15 529	10 182	7 283	21 566
Scrap	tonnes	3 338	5 830	12 145	17 462	4 627
Magnesite and magnesia	tonnes	4 670	6 296	3 180	5 678	11 378
Manganese						
Ores and concentrates	tonnes	27 602	—	20	5	133
Molybdenum						
Metal	tonnes	47	15	47	10	193
Nickel						
Unwrought (a)	tonnes	195	204	90	125	201
Crude petroleum	tonnes	7 162 499	7 262 658	5 770 397	5 355 541	4 999 511
Phosphate rock	tonnes	462 247	534 734	309 564	455 539	570 288
Platinum metals						
Platinum and platinum metals	kilograms	82 367	613	16	17	5
Potash						
Potassic fertilisers	tonnes	4 845	4 633	1 970	7 985	3 210
Salt	tonnes	71 848	103 007	102 272	215 355	214 732
Silver						
Metal	kilograms	10 521	2 189	871	2 408	4 300
Sulphur and pyrites						
Sulphur	tonnes	1 039	487	162	161	291
Talc	tonnes	688	1 048	747	512	985
Tin						
Unwrought (a)	tonnes	51	69	22	47	359

Bulgaria

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Titanium						
Titanium minerals	tonnes	712	42	105	506	486
Metal	tonnes	78	203	65	19	46
Oxides	tonnes	5 398	5 955	5 329	5 675	6 454
Tungsten						
Metal	tonnes	50	9	26	86	16
Zinc						
Ores and concentrates	tonnes	208 313	146 655	147 579	167 107	166 553
Unwrought (a)	tonnes	3 330	5 095	2 480	1 761	2 765
Zirconium						
Concentrates	tonnes	1 357	1 081	573	781	609

Note

(a) Including alloys

Croatia

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	...	7 275 077	6 583 880	3 646 572	5 012 106
Bentonite	tonnes	19 578	19 759	—	—	—
Gypsum	tonnes	170 721	* 250 000	318 139	248 675	231 008
Crude steel	tonnes	76 252	121 759	54 266	103 429	95 440
Crude petroleum	tonnes	911 207	867 027	807 424	748 791	691 197
Natural gas	million m ³	2 892	2 729	2 591	2 727	2 471
Salt	tonnes	32 536	54 937	57 186	66 835	53 963

Note

(1) Croatia is also believed to produce sulphur

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	3 334 229	2 950 159	3 087 216	1 858 348	992 712
Aluminium and bauxite						
Scrap	tonnes	20 886	17 769	15 779	22 346	23 009
Cement						
Cement clinkers	tonnes	310 378	235 377	169 394	176 403	103 281
Portland cement	tonnes	855 579	667 503	615 827	639 236	1 189 738
Other cement	tonnes	94 185	468 597	276 981	601 470	180 836
Copper						
Scrap	tonnes	12 378	10 884	10 202	13 329	12 597
Gold						
Metal	kilograms	246	88	140	256	1 408
Gypsum						
Crude and calcined	tonnes	4 808	4 738	3 119	10	66
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	520	3 286	3 397	6 526	5 254
Ingots, blooms, billets	tonnes	34	3 486	7	2 495	30 004
Scrap	tonnes	427 540	357 487	302 085	357 015	517 438
Lead						
Scrap	tonnes	3 590	1 872	1 025	1 697	1 842
Natural gas	tonnes	540 782	457 192	570 296	347 567	180 323
Platinum metals						
Waste and scrap	kilograms	18 314	27 018	27 959	53 996	24 958
Salt	tonnes	3 986	4 530	9 995	20 721	24 561
Sulphur and pyrites						
Sulphur	tonnes	8 614	7 604	8 664	6 565	14 256
Titanium						
Oxides	tonnes	489	417	331	117	172
Zinc						
Scrap	tonnes	683	700	708	518	676

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	4 583 241	4 618 579	1 871 236	926 574	1 366 197
Aluminium and bauxite						
Bauxite	tonnes	115 367	107 237	72 103	85 634	66 169
Unwrought	tonnes	54 067	57 828	37 828	50 354	45 493
Unwrought alloys	tonnes	22 039	20 786	28 251	29 270	40 783
Barytes	tonnes	98	1 525	889	710	125
Bentonite	tonnes	7 633	39 289	22 383	7 852	16 906
Bismuth						
Metal	tonnes	10	8	—	1	0
Cement						
Cement clinkers	tonnes	27 488	50	1	967	144
Portland cement	tonnes	340 112	393 886	393 613	344 352	326 526
Other cement	tonnes	5 242	7 447	10 620	7 619	4 200
Chromium						
Ores and concentrates	tonnes	584	568	282	143	190
Metal	tonnes	280	394	307	419	345
Coal						
Hard coal (a)	tonnes	1 101 803	1 189 379	712 873	1 112 822	1 092 794
Lignite	tonnes	62 789	58 417	47 504	85 413	85 316
Briquettes	tonnes	2 604	2 796	1 730	1 823	2 302
Copper						
Unwrought	tonnes	729	880	760	944	1 627
Diatomite	tonnes	610	511	462	402	555
Feldspar	tonnes	16 212	15 983	14 603	14 763	14 001
Fluorspar	tonnes	149	289	165	146	3 527
Gold						
Metal	kilograms	1 608	693	1 221	310	11
Gypsum						
Crude	tonnes	48 775	38 120	14 470	1 608	11 421
Calcined	tonnes	37 034	34 224	22 154	14 076	12 709
Iron ore (b)	tonnes	14 444	17 177	12 057	20 147	2 123
Iron, steel and ferro-alloys						
Pig iron	tonnes	17 011	15 031	8 420	10 343	14 072
Ferro-alloys	tonnes	3 027	4 790	2 239	4 051	2 490
Ingots, blooms, billets	tonnes	20 953	20 077	19 396	6 514	1 943
Scrap	tonnes	29 553	19 400	10 628	30 395	44 335
Kaolin	tonnes	21 845	24 009	14 486	10 238	11 278
Magnesite and magnesia	tonnes	1 872	1 682	1 289	1 208	1 061
Manganese						
Metal	tonnes	586	64	53	23	30
Crude petroleum	tonnes	4 285 565	3 476 266	4 044 874	3 517 452	2 838 313
Natural gas	tonnes	700 955	855 326	738 109	587 846	579 005
Phosphate rock	tonnes	327 936	328 599	117 441	51 010	67 007
Potash						
Chloride	tonnes	159 288	157 994	10 538	132 471	102 879
Other potassic fertilisers	tonnes	3 564	2 958	1 091	1 749	3 717
Salt	tonnes	104 066	176 408	197 644	287 609	190 963
Silver						
Metal	kilograms	3 684	3 293	2 353	3 212	3 868
Sulphur and pyrites						
Pyrites	tonnes	...	32	...	...	...
Sulphur	tonnes	71 965	98 785	10 349	2 877	2 752
Sulphur, sublimed and precipitated	tonnes	2 425	4	51	105	156
Talc	tonnes	1 985	1 709	1 721	1 813	1 578
Titanium						
Oxides	tonnes	3 244	2 989	2 697	3 000	2 911
Zinc						
Unwrought (c)	tonnes	4 674	4 656	3 149	3 029	2 886

Notes

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

Cyprus

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Crushed rock	tonnes	13 129 470	14 174 480	11 467 987	12 981 444	11 816 397
Bentonite	tonnes	154 655	155 125	152 722	162 969	160 625
Cement						
Cement, clinker	tonnes	—	—	30 286	—	—
Cement, finished	tonnes	1 872 531	1 913 620	1 480 843	1 328 763	1 206 786
Copper, mine	tonnes (metal content)	3 012	2 986	2 380	2 595	3 660
Copper, refined	tonnes	3 012	2 986	2 380	2 595	3 660
Gypsum	tonnes	330 000	412 000	317 000	333 000	335 000

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	148 994	124 576	38 469	—	2
Aluminium and bauxite						
Scrap	tonnes	4 745	4 409	5 934	6 896	6 310
Bentonite	tonnes	156 871	92 089	95 674	98 803	114 923
Cement						
Cement clinkers	tonnes	0	0	24 215	—	—
Portland cement	tonnes	51 022	—	27 324	12 866	42 438
Copper						
Unwrought	tonnes	3 006	2 986	2 449	2 550	3 660
Scrap	tonnes	2 122	2 381	3 400	4 619	4 086
Gypsum						
Crude and calcined	tonnes	203 109	279 902	236 427	250 034	248 284
Iron, steel and ferro-alloys						
Scrap	tonnes	63 662	72 106	80 349	96 654	138 529
Phosphate rock	tonnes	...	2 960	...	—	...
Salt	tonnes	769	956	2 910	7 929	6 260
Zinc						
Scrap	tonnes	1 746	...	118	90	46

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	15 497	28 990	11 564	2 648	1 517
Aluminium and bauxite						
Unwrought alloys	tonnes	13 868	13 408	8 721	9 211	7 073
Bentonite	tonnes	10 556	12 496	5 709	4 629	142
Cement						
Cement clinkers	tonnes	17 498	66 787	15 455	29 579	69 780
Portland cement	tonnes	1 017	29 311	249	2 512	545
Coal						
Hard coal (a)	tonnes	56 896	46 258	28 911	7 714	129
Diamond						
Gem, cut	Carats	£1 311 000	£1 564 000	£1 724 000	£955 000	£976 000
Industrial	Carats	£1 042 000	£1 311 000	£587 000	£1 007 000	£1 536 000
Gypsum						
Crude and calcined	tonnes	12 932	15 045	10 807	9 292	6 461
Platinum metals						
Platinum and platinum metals (b)	kilograms	* 700	* 400	...	* 900	* 400
Rare earths						
Cerium compounds	tonnes	0	0	0	24	0
Ferro-cerium and other pyrophoric alloys	tonnes	0	0	...	18	...
Salt	tonnes	12 208	13 445	16 822	23 836	20 998
Silver						
Metal	kilograms	3 746	2 863	1 993	1 200	2 200
Sulphur and pyrites						
Sulphur	tonnes	995	895	1 011	951	625
Talc	tonnes	343	521	290	307	267
Titanium						
Oxides	tonnes	1 243	1 603	1 189	1 299	1 141

Notes

(a) Including anthracite

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

Czech Republic

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	28 233 000	27 306 000	23 974 000	19 240 000	21 424 000
Crushed rock	tonnes	43 214 000	44 277 000	41 307 000	37 270 000	36 717 000
Bentonite	tonnes	335 000	235 000	177 000	183 000	160 000
Cement						
Cement, clinker	tonnes	3 127 530	3 137 828	2 433 746	2 260 561	2 617 072
Cement, finished	tonnes	4 898 530	4 804 845	3 851 100	3 558 536	4 052 558
Coal						
Bituminous	tonnes	12 462 000	12 197 000	10 621 000	11 193 000	10 967 000
Lignite	tonnes	437 000	416 000	262 000	—	—
Brown coal	tonnes	49 134 000	47 456 000	45 354 000	43 931 000	46 848 000
Diatomite	tonnes	19 000	31 000	—	32 000	46 000
Feldspar	tonnes	514 000	488 000	431 000	388 000	407 000
Graphite	tonnes	3 000	3 000	—	—	—
Gypsum	tonnes	66 000	35 000	13 000	5 000	11 000
Pig iron	tonnes	5 287 000	4 737 000	3 483 000	3 987 000	4 137 000
Crude steel	tonnes	7 059 000	6 387 000	4 594 000	5 180 000	5 583 000
Ferro-alloys						
Ferro-vanadium	tonnes	* 1 700	* 2 800	* 1 900	* 3 400	* 4 600
Kaolin (a)	tonnes	682 000	664 000	488 000	636 000	660 000
Lead, refined	tonnes	34 000	36 000	29 000	30 000	34 000
Crude petroleum	tonnes	240 000	236 000	217 000	173 000	163 000
Natural gas	million m ³	148	168	180	201	187
Uranium, mine	tonnes (metal content)	322	290	286	259	252

Notes

(1) Czech Republic is also believed to produce sulphur

(a) Beneficiated

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	716 787	699 987	597 101	683 786	1 010 339
Aluminium and bauxite						
Unwrought (a)	tonnes	54 457	53 682	59 913	51 307	53 600
Scrap	tonnes	61 067	59 196	49 251	71 467	89 690
Antimony						
Oxide	tonnes	139	133	89	71	107
Bentonite	tonnes	97 358	105 403	99 584	120 859	143 788
Bismuth						
Metal	tonnes	2	3	—	19	3
Cement						
Cement clinkers	tonnes	29 924	19 039	85 427	88 236	169
Portland cement	tonnes	458 701	436 600	374 515	402 537	844 920
Other cement	tonnes	151 422	196 133	156 650	218 689	232
Chromium						
Ores and concentrates	tonnes	800	507	369	764	1 140
Metal	tonnes	946	594	662	21	103
Coal						
Anthracite	tonnes	3 684	6 393	2 783	1 126	3 463
Other coal	tonnes	6 729 290	5 987 431	6 025 794	6 443 306	6 253 274
Lignite	tonnes	1 076 140	1 561 097	1 207 715	1 019 645	1 071 038
Briquettes	tonnes	112 450	75 459	93 479	90 864	103 816
Copper						
Unwrought	tonnes	6 752	3 597	10 653	11 041	10 703
Unwrought alloys	tonnes	3 548	4 278	3 992	3 515	2 884
Scrap	tonnes	58 534	63 825	105 230	123 688	85 202

Czech Republic

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Diamond						
Gem, cut	Carats	£ 529 000	£ 3 947 000	£ 3 046 000	£ 4 465 000	£ 7 709 000
Diatomite	tonnes	1 094	4 128	3 789	4 231	5 182
Feldspar	tonnes	168 259	171 596	135 533	129 715	166 859
Fluorspar	tonnes	8 415	4 488	6 147	10 575	10 564
Gold						
Metal	kilograms	3 900	4 000	9 800	12 000	21 400
Waste and scrap	kilograms	6 100	5 200	5 600	4 400	2 700
Graphite	tonnes	4 029	4 076	2 150	3 154	3 417
Gypsum						
Crude	tonnes	105 394	60 018	10 195	48 605	103 363
Calcined	tonnes	5 973	7 881	6 430	5 235	3 448
Iodine	kilograms	1 000	300	500	1 000	2 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	31 182	30 457	24 041	65 473	45 677
Ferro-silicon	tonnes	8 254	8 780	4 285	9 806	7 354
Ferro-vanadium	tonnes	1 685	2 830	1 868	3 440	4 603
Other ferro-alloys	tonnes	8 704	13 897	12 274	23 873	6 732
Silicon metal	tonnes	1 118	1 375	783	847	584
Ingots, blooms, billets	tonnes	587 296	500 423	222 780	320 821	356 146
Scrap	tonnes	1 678 565	1 792 889	1 442 865	1 814 398	2 011 915
Kaolin	tonnes	173 251	233 819	174 814	485 203	537 962
Lead						
Unwrought	tonnes	16 707	18 713	23 617	32 743	27 649
Scrap	tonnes	6 855	8 136	4 832	1 914	2 357
Magnesite and magnesia	tonnes	3 988	4 540	3 728	3 809	7 096
Mercury	kilograms	3 600	6 300	6 400	1 100	1 700
Nickel						
Scrap	tonnes	1 245	601	2 420	4 558	3 427
Unwrought (a)	tonnes	171	758	228	126	272
Oxides	tonnes	617	643	275	341	338
Crude petroleum	tonnes	16 573	18 130	21 600	18 239	18 685
Natural gas	tonnes	—	—	834 462	1 318 872	1 115 748
Phosphate rock	tonnes	732	1 091	817	—	...
Platinum metals						
Platinum and platinum metals	kilograms	(b)* 800	3 400	5 200	6 800	2 900
Waste and scrap	kilograms	1 900	700	—	—	15 300
Potash						
Potassic fertilisers	tonnes	3 096	3 322	6 843	4 235	4 780
Rare earths						
Cerium compounds	tonnes	6	3	3	3	2
Other rare earth compounds	tonnes	6	5	0	3	...
Salt	tonnes	18 760	14 116	31 068	51 289	41 658
Silver						
Metal	kilograms	102 968	117 325	77 000	74 600	399 700
Sulphur and pyrites						
Sulphur	tonnes	5 579	16 670	20 153	12 124	980
Talc	tonnes	340	386	182	169	298
Tantalum and niobium						
Tantalum	tonnes	66	97	62	95	110
Tin						
Unwrought (a)	tonnes	253	86	76	276	18
Scrap	tonnes	958	85	118	44	167
Titanium						
Titanium minerals	tonnes	745	641	452	2 378	504
Metal	tonnes	126	84	339	358	264
Oxides	tonnes	43 166	42 860	46 753	45 842	45 437
Tungsten						
Metal	tonnes	102	86	30	211	611
Carbide	tonnes	605	592	307	803	903
Zinc						
Unwrought (a)	tonnes	18 786	17 258	19 982	5 148	5 147
Scrap	tonnes	2 981	2 705	2 716	4 798	4 189

Notes

(a) Including alloys

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	252 049	333 726	398 613	353 419	357 455
Aluminium and bauxite						
Bauxite	tonnes	26 865	17 698	9 857	33 794	32 556
Alumina	tonnes	30 523	28 245	5 995	7 407	7 980
Alumina hydrate	tonnes	7 834	6 916	6 672	9 547	10 052
Unwrought	tonnes	82 910	68 362	62 972	76 945	84 560
Unwrought alloys	tonnes	119 773	124 643	108 231	135 648	153 819
Scrap	tonnes	63 508	58 424	50 379	61 802	86 969
Antimony						
Metal	tonnes	64	131	55	75	64
Oxide	tonnes	604	521	209	379	356
Arsenic						
Metallic arsenic	tonnes	10	26	0	0	0
Barytes	tonnes	6 358	7 388	4 641	7 004	7 431
Bentonite	tonnes	23 559	24 239	25 129	18 472	39 439
Bismuth						
Metal	tonnes	70	78	53	106	264
Bromine	kilograms	7 700	12 000	2 600	3 100	...
Cadmium						
Oxide	tonnes	338	463	396	464	487
Cement						
Cement clinkers	tonnes	109 392	134 179	101 031	121 682	44 577
Portland cement	tonnes	918 739	932 685	890 776	702 257	765 382
Other cement	tonnes	30 602	23 816	51 482	48 336	31 074
Chromium						
Ores and concentrates	tonnes	13 936	12 990	7 798	7 975	7 986
Metal	tonnes	281	282	83	514	139
Coal						
Anthracite	tonnes	45 114	39 211	24 054	24 471	95 762
Other coal	tonnes	2 507 091	2 181 691	1 761 947	2 016 443	2 286 190
Lignite	tonnes	33 472	33 579	36 617	49 426	76 620
Briquettes	tonnes	1 393	18 654	60 962	137 933	157 513
Cobalt						
Metal	tonnes	108	199	220	60	60
Copper						
Unwrought	tonnes	15 156	11 474	21 475	6 846	6 252
Unwrought alloys	tonnes	3 755	3 862	3 050	3 674	3 388
Scrap	tonnes	8 966	8 677	9 639	11 804	18 859
Diamond						
Gem, cut	Carats	5 837	116 669	7 306	5 567	6 848
Industrial	Carats	43 006	30 181	7 640	5 061	17 069
Dust	Carats	£884 000	£1 369 000	£977 000	£1 704 000	£1 954 000
Diatomite	tonnes	3 318	4 768	3 173	2 753	3 263
Feldspar	tonnes	14 213	11 414	5 330	6 298	6 527
Fluorspar	tonnes	24 915	3 440	8 626	14 495	15 547
Gold						
Metal	kilograms	8 813	3 047	3 055	2 600	23 800
Waste and scrap	kilograms	45 718	19 140	60 440	84 000	192 500
Graphite	tonnes	5 301	6 233	2 554	3 605	5 149
Gypsum						
Crude	tonnes	70 972	76 119	83 819	55 087	57 962
Calcined	tonnes	45 167	75 278	53 954	33 763	34 353
Iodine	kilograms	32 300	25 200	31 900	35 100	36 500
Iron ore (a)	tonnes	6 578 116	6 799 756	4 803 009	5 902 011	7 363 983

Czech Republic

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	108 715	111 872	47 666	54 625	76 416
Sponge and powder	tonnes	20 580	24 791	10 006	15 391	24 059
Ferro-chrome	tonnes	34 123	26 043	14 715	16 962	10 933
Ferro-silico-magnesium	tonnes	6 297	5 778	3 192	3 784	3 706
Ferro-manganese	tonnes	35 500	33 704	23 630	26 204	25 281
Ferro-silico-manganese	tonnes	52 153	48 962	34 418	40 732	41 411
Ferro-molybdenum	tonnes	2 025	2 049	949	1 868	2 401
Ferro-silicon	tonnes	41 482	37 230	23 936	31 908	33 418
Ferro-vanadium	tonnes	440	578	299	482	472
Other ferro-alloys	tonnes	1 697	1 644	836	1 303	1 518
Silicon metal	tonnes	6 584	5 826	4 408	5 805	5 809
Ingots, blooms, billets	tonnes	445 181	525 598	220 524	651 182	322 206
Scrap	tonnes	521 779	502 256	377 942	410 647	472 576
Kaolin	tonnes	23 461	20 662	13 228	14 125	18 733
Lead						
Unwrought	tonnes	66 060	59 318	65 896	81 762	36 233
Scrap	tonnes	6 519	4 672	4 150	2 901	2 763
Lithium						
Carbonate	tonnes	146	64	35	66	74
Magnesite and magnesia						
Magnesite	tonnes	6 527	4 193	3 460	7 108	4 578
Magnesia	tonnes	52 330	54 246	38 048	38 862	40 975
Manganese						
Ores and concentrates	tonnes	16 079	15 715	16 063	25 758	28 810
Metal	tonnes	757	2 542	2 219	984	907
Mercury	kilograms	3 200	3 700	4 400	2 400	4 400
Mica	tonnes	2 262	1 958	981	2 513	740
Molybdenum						
Ores and concentrates	tonnes	213	284	1 040	184	118
Metal	tonnes	130	560	127	82	104
Nickel						
Scrap	tonnes	294	473	1 468	1 257	178
Unwrought (b)	tonnes	4 429	3 728	2 179	2 223	3 750
Oxides	tonnes	919	838	319	393	399
Crude petroleum	tonnes	7 179 766	8 141 759	7 451 765	7 770 418	6 968 871
Natural gas	tonnes	5 478 515	6 264 909	7 080 247	7 471 522	7 175 884
Phosphate rock	tonnes	33 954	20 928	543	9 917	13 163
Platinum metals						
Platinum	kilograms	99	42 358	81 500	25 000	2 100
Platinum metals	kilograms	477	47 932	600	17 700	100
Waste and scrap	kilograms	913	4 414	772	7 835	54 300
Potash						
Chloride	tonnes	32 745	28 052	36 125	82 710	87 248
Other potassic fertilisers	tonnes	4 215	5 025	2 430	4 773	3 410
Rare earths						
Metals	tonnes	3	0	0	13	35
Rare earth compounds	tonnes	228	155	124	131	117
Ferro-cerium and other pyrophoric alloys	tonnes	4	5	5	6	2
Salt	tonnes	567 960	610 149	711 374	958 474	858 980
Sillimanite minerals						
Sillimanite minerals	tonnes	4 570	5 829	4 227	3 682	4 089
Mullite	tonnes	1 031	857	490	758	818
Silver						
Ores and concentrates	kilograms	...	...	5 700	990 200	—
Metal	kilograms	647 818	1 557 076	163 316	136 000	1 635 700
Sulphur and pyrites						
Pyrites	tonnes	281	1 576	299	250	247
Sulphur	tonnes	55 196	43 473	20 986	14 762	14 945
Sulphur, sublimed and precipitated	tonnes	57 410	65 242	71 033	82 355	93 289
Talc	tonnes	12 993	11 007	9 312	9 570	12 686
Tantalum and niobium						
Tantalum	tonnes	206	253	141	265	222
Tin						
Unwrought (b)	tonnes	616	802	937	449	651

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Titanium						
Titanium minerals	tonnes	179 323	193 858	140 394	155 485	146 778
Metal	tonnes	1 086	1 122	918	779	1 333
Oxides	tonnes	10 529	8 765	7 248	8 857	9 372
Tungsten						
Metal	tonnes	837	206	4 184	677	367
Carbide	tonnes	...	...	...	150	219
Vanadium						
Pentoxide	tonnes	3 210	5 135	2 702	5 255	7 004
Zinc						
Unwrought	tonnes	35 666	36 733	24 660	15 121	17 137
Unwrought alloys	tonnes	11 992	11 344	7 155	11 653	10 590
Scrap	tonnes	4 008	2 792	2 434	900	909
Zirconium						
Concentrates	tonnes	1 482	751	268	303	955
Metal	tonnes	78	101	45	37	34

Notes

(a) Including burnt pyrites

(b) Including alloys

Denmark

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	6 575 651	4 637 319	1 772 956	2 041 135	1 398 101
Crushed rock	tonnes	834 988	936 616	760 536	640 742	541 931
Bentonite	tonnes	20 093	22 458	24 040	23 832	38 300
Cement						
Cement, clinker	tonnes	21 209	16 092	122	3 819	25
Cement, finished	tonnes	2 871 402	2 538 822	1 578 614	1 566 624	1 852 804
Diatomite						
Moler (a)	tonnes	92 416	92 108	82 778	83 756	80 854
Crude petroleum	tonnes	15 552 000	14 338 000	13 045 000	12 090 000	10 908 900
Natural gas	million m ³	8 757	9 562	7 980	7 792	6 263
Salt	tonnes	557 917	496 593	511 063	601 046	* 600 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	3 896	3 467	4 200	3 246	3 045

Notes

(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	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 194 349	846 490	955 036	907 149	961 853
Aluminium and bauxite						
Alumina	tonnes	5 471	5 300	4 002	4 661	4 958
Unwrought alloys	tonnes	36 831	32 499	7 505	9 515	7 382
Scrap	tonnes	50 164	56 727	70 649	73 402	67 000
Bentonite	tonnes	19 495	15 734	13 004	13 787	13 827
Cement						
Cement clinkers	tonnes	9 673	7 287	7 784	11 884	2 689
Portland cement	tonnes	1 094 730	969 666	568 656	731 730	813 938
Other cement	tonnes	16 222	25 482	20 751	3 860	4 175
Chromium						
Metal	tonnes	549	1 262	659	1 056	601
Coal						
Hard coal	tonnes	75 866	27 070	(a) 1 973 198	(b)* 10 000	464 851
Copper						
Scrap	tonnes	31 569	33 421	31 711	30 006	33 289
Diamond						
Unsorted	Carats	135 000	95 000	15 000	...	2 875 000
Gem, cut	Carats	995 000	3 000 000	685 000	520 000	545 000
Industrial	Carats	75 000	1 025 000	40 000	90 000	125 000
Dust	Carats	15 000	5 000	5 400 000	7 625 000	24 850 000
Diatomite (b)	tonnes	* 63 600	* 67 800	* 57 500	* 57 300	* 56 800
Gold						
Waste and scrap	kilograms	600	600	500	500	1 800
Gypsum						
Crude	tonnes	197 920	141 124	8 440	2 211	63
Calcined	tonnes	1 740	4 173	1 455	8 299	6 725
Iodine	kilograms	100	1	1 500	3	100
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	62	48	55	77	164
Other ferro-alloys	tonnes	257	491	291	54	43
Ingots, blooms, billets	tonnes	12 820	16 775	13 287	19 143	21 926
Scrap	tonnes	1 263 987	1 372 424	1 335 754	1 596 485	1 554 808
Kaolin	tonnes	351	486	352	607	1 370
Lead						
Scrap	tonnes	1 685	1 159	4 057	3 485	4 118
Magnesite and magnesia	tonnes	451	461	518	796	644

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Nickel						
Scrap	tonnes	482	642	1 063	1 765	1 244
Crude petroleum	tonnes	9 493 573	8 593 198	8 520 980	7 363 518	6 899 354
Natural gas	tonnes	3 786 580	4 023 305	2 906 339	(a)* 1 044 000	(a)* 836 000
Platinum metals						
Platinum and platinum metals	kilograms	48	1	7 000	200	100
Potash						
Chloride	tonnes	127	45	59	69	2 123
Other potassic fertilisers	tonnes	136	374	504	683	8 898
Salt	tonnes	261 895	265 036	333 383	319 317	296 459
Silver						
Metal	kilograms	43 775	18 782	37 200	30 300	53 800
Talc	tonnes	273	165	269	409	235
Titanium						
Metal	tonnes	162	152	102	196	125
Oxides	tonnes	1 121	460	442	820	5 792
Tungsten						
Metal	tonnes	112	121	91	113	118
Zinc						
Scrap	tonnes	2 388	2 028	2 622	2 563	2 468

Notes

(a) Including anthracite

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	3 077 714	3 346 209	2 932 586	2 777 604	3 531 658
Aluminium and bauxite						
Bauxite	tonnes	6 572	7 317	8 108	8 364	9 112
Alumina	tonnes	25 643	27 582	21 968	22 484	21 012
Unwrought (a)	tonnes	86 389	85 420	61 259	79 479	86 057
Scrap	tonnes	66 038	70 726	5 321	5 175	5 891
Barytes	tonnes	38 096	22 324	27 656	14 178	17 322
Bentonite	tonnes	43 555	34 012	35 089	43 049	34 130
Cement						
Cement clinkers	tonnes	35 555	33 825	31 847	23 732	29 888
Portland cement	tonnes	243 348	289 307	208 467	180 249	244 007
Other cement	tonnes	52 662	38 687	46 117	38 797	19 941
Chromium						
Ores and concentrates	tonnes	945	974	384	480	864
Coal						
Anthracite	tonnes	47 233	45 282	12 593	48	6
Other coal	tonnes	8 034 596	7 412 557	6 423 923	3 670 544	(b)* 6 975 000
Briquettes	tonnes	194	1 000	455	7 554	14 768
Cobalt						
Oxides	tonnes	5	8	15	19	42
Copper						
Unwrought	tonnes	2 901	2 818	1 413	1 978	2 255
Scrap	tonnes	9 187	11 235	10 388	9 125	9 075
Diamond						
Unsorted	Carats	£928 000	£1 168 000	£40 000	£255 000	£82 000
Gem, cut	Carats	£8 473 000	£7 424 000	£4 680 000	£5 339 000	£5 884 000
Industrial	Carats	£388 000	£104 000	£223 000	£59 000	£88 000
Dust	Carats	1 056 203	791 502	10 000 000	500 000	500 000
Diatomite	tonnes	4 244	5 849	3 347	3 294	4 165
Feldspar	tonnes	3 145	2 678	2 666	1 211	2 612
Fluorspar	tonnes	8 218	17 003	33 149	13 086	22 462
Gold						
Metal	kilograms	2 350	2 000	3 100	900	100 900
Graphite	tonnes	212	185	269	303	405
Gypsum						
Crude	tonnes	388 662	379 094	106 304	53 577	97 219
Calcined	tonnes	53 647	52 087	58 675	42 290	21 696
Iodine	kilograms	1 973 090	1 122 329	8 674	10 168	5 500

Denmark

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron ore						
Iron ore	tonnes	72 805	111 604	69 990	53 896	118 928
Burnt pyrites	tonnes	9 231	—	—	15 457	8
Iron, steel and ferro-alloys						
Pig iron	tonnes	18 349	14 064	10 299	10 263	17 316
Sponge and powder	tonnes	61 079	3 602	1 742	3 229	3 586
Ferro-silico-magnesium	tonnes	1 795	1 465	348	177	35
Ferro-silicon	tonnes	1 887	1 702	569	2 864	3 328
Other ferro-alloys	tonnes	595	1 080	217	250	192
Ingots, blooms, billets	tonnes	780 837	672 439	328 893	538 503	609 342
Scrap	tonnes	213 776	392 453	269 841	337 192	242 848
Kaolin	tonnes	35 288	47 525	37 738	37 007	37 755
Lead						
Unwrought	tonnes	1 033	192	107	128	172
Scrap	tonnes	2 228	1 984	2 583	2 890	1 989
Lithium						
Carbonate	tonnes	155	311	402	340	358
Magnesite and magnesia						
Magnesite	tonnes	512	456	2 680	2 728	2 299
Magnesia	tonnes	3 327	4 149	5 472	4 636	4 927
Manganese						
Ores and concentrates	tonnes	775	698	1 158	257	1 051
Metal	tonnes	317	233	136	183	124
Mica	tonnes	366	276	242	237	150
Molybdenum						
Oxides	tonnes	432	361	388	418	253
Nickel						
Scrap	tonnes	529	100	122	382	234
Crude petroleum	tonnes	2 136 643	2 240 240	3 320 486	2 562 669	2 625 412
Natural gas	tonnes	...	...	...	103 236	198 509
Phosphate rock	tonnes	1 051	881	737	282	463
Platinum metals						
Platinum and platinum metals	kilograms	6 952	6 448	4 699	2 300	796
Potash						
Sulphate	tonnes	6 077	1 878	1 019	1 910	9 335
Chloride	tonnes	34 292	47 885	4 917	36 608	42 472
Other potassic fertilisers	tonnes	13 742	24 438	11 052	14 967	8 473
Rare earths						
Cerium compounds	tonnes	1	11	734	15	16
Other rare earth compounds	tonnes	30	10	36	19	6
Salt	tonnes	230 787	213 931	421 109	762 420	907 135
Sillimanite minerals						
Sillimanite minerals	tonnes	1 631	915	1 011	1 124	792
Mullite	tonnes	1 746	1 567	1 587	3 199	2 590
Silver						
Metal	kilograms	62 049	51 992	1 873 817	612 600	172 900
Sulphur and pyrites						
Sulphur	tonnes	204	2 082	4 447	7 051	6 123
Talc	tonnes	10 830	12 055	8 035	7 013	6 276
Tin						
Unwrought (a)	tonnes	19	30	13	110	136
Titanium						
Metal	tonnes	623	774	670	674	1 723
Oxides	tonnes	19 514	17 055	17 511	20 427	23 296
Tungsten						
Metal	tonnes	113	110	105	51	41
Zinc						
Unwrought	tonnes	9 931	12 591	6 063	4 427	6 023
Unwrought alloys	tonnes	1 345	910	771	1 310	763

Notes

(a) Including alloys

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

Estonia

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	6 531 740	3 635 700	3 911 980	3 524 400	3 755 240
Crushed rock	tonnes	8 855 800	7 945 900	6 034 500	5 752 600	6 900 900
Cement						
Cement, clinker	tonnes	1 042 800	1 040 000	448 500	537 000	719 000
Cement, finished	tonnes	937 400	808 000	326 200	375 000	451 000
Lead, refined	tonnes	10 000	10 000	10 000	10 000	10 000
Crude petroleum (a)	tonnes	1 901 600	1 869 500	1 733 000	2 080 000	2 173 132

Notes

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

(a) From oil shale

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	573 530	701 067	503 048	810 298	745 353
Aluminium and bauxite						
Unwrought (a)	tonnes	8 083	27 839	8 357	4 132	52
Scrap	tonnes	10 379	19 895	6 958	65 948	63 880
Antimony						
Metal	tonnes	...	...	...	67	113
Cement						
Cement clinkers	tonnes	325 263	426 384	395 641	222 190	426 994
Portland cement	tonnes	274 997	383 449	120 294	148 505	186 255
Other cement	tonnes	452	1 387	59	488	752
Coal						
Hard coal	tonnes	(b) 2 035	(c)* 13 000	(b) 20 296	(b) 16 452	(b) 2 312
Copper						
Scrap	tonnes	7 784	8 185	5 633	6 915	5 171
Gypsum						
Crude and calcined	tonnes	2 182	4 154	22	87	105
Iron, steel and ferro-alloys						
Pig iron	tonnes	(c)* 1 360	1	(c)* 1	97	234
Ferro-alloys	tonnes	159	153	100	124	142
Ingots, blooms, billets	tonnes	5 985	1 392	3 159	1 203	1 511
Scrap	tonnes	572 216	650 099	384 299	512 766	563 124
Kaolin	tonnes	86	...	—	878	830
Lead						
Unwrought	tonnes	10 091	10 473	8 861	10 624	11 513
Manganese						
Metal	tonnes	464	226	137	5	25
Nickel						
Scrap	tonnes	1 260	1 680	89	0	536
Rare earths						
Rare earth compounds	tonnes	3 183	2 916	2 679	1 686	1 124
Salt	tonnes	429	121	277	2 055	3 685
Silver						
Metal	kilograms	9	13	955	200	4 600
Tantalum and niobium						
Tantalum	tonnes	43	67	47	34	76
Tin						
Scrap	tonnes	71	88	124	120	56

Estonia

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Titanium						
Metal	tonnes	11	13	30	26	33
Oxides	tonnes	1 491	579	158	49	164
Zinc						
Scrap	tonnes	725	2 860	1 065	509	637

Notes

(a) Including alloys

(b) Including anthracite

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	929 218	988 981	1 006 376	1 395 122	1 302 589
Aluminium and bauxite						
Unwrought (a)	tonnes	3 035	26 545	5 956	3 176	2 231
Scrap	tonnes	808	485	535	4 495	2 488
Bentonite	tonnes	1 995	1 506	1 631	3 352	2 937
Cement						
Cement clinkers	tonnes	31 127	25 438	—	13 474	(b)* 1 800
Portland cement	tonnes	2 536	4 613	30 424	36 354	52 807
Coal						
Hard coal (c)	tonnes	175 599	123 194	30 413	77 300	89 422
Gold						
Metal	kilograms	900	1 200	300	900	1 600
Gypsum						
Crude	tonnes	26 567	19 239	381	11 295	11 922
Calcined	tonnes	19 769	18 823	8 760	8 950	8 343
Iodine	kilograms	12	18	196	13 157	200
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	1 240	1 114	305	656	602
Scrap	tonnes	53 155	37 774	9 267	8 434	12 230
Kaolin	tonnes	3 214	3 902	1 588	881	211
Magnesite and magnesia						
Magnesia	tonnes	101	222	260	297	382
Manganese						
Metal	tonnes	836	478	168	576	85
Nickel						
Scrap	tonnes	803	129	—	—	10
Unwrought	tonnes	(a) 350	(a) 34	(a) 15	(a) 27	47
Crude petroleum	tonnes	18 375	1 425	1	2	3
Natural gas	tonnes	726 823	717 831	477 844	491 806	478 288
Potash						
Chloride	tonnes	7 048	8 665	1	1 517	1 898
Rare earths						
Cerium compounds	tonnes	0	0	0	24	501
Other rare earth compounds	tonnes	4 725	4 469	4 125	2 105	3 616
Salt	tonnes	72 445	72 149	73 931	73 254	85 105
Silver						
Metal	kilograms	3 100	5 800	2 900	3 200	5 000
Talc	tonnes	418	331	332	373	451
Tantalum and niobium						
Tantalum	tonnes	5	6	—	37	20
Titanium						
Metal	tonnes	393	97	50	82	5
Oxides	tonnes	2 548	2 106	1 349	1 409	1 724
Zinc						
Unwrought (a)	tonnes	4 362	7 676	1 595	5 978	8 887

Notes

(a) Including alloys

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

(c) Including anthracite

Finland

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	59 000 000	25 000 000	16 000 000	* 16 000 000	* 16 000 000
Crushed rock	tonnes	54 000 000	60 000 000	47 000 000	* 48 000 000	* 48 000 000
Cement						
Cement, finished (a)	tonnes	1 771 000	1 638 000	1 041 866	1 204 581	1 379 760
Chromium ores and concentrates	tonnes	556 000	614 000	247 000	598 000	693 000
Cobalt metal	tonnes	9 173	9 645	8 970	9 429	10 627
Cobalt, mine	tonnes (metal content)	* 120	* 100	* 27	* 140	480
Copper, mine	tonnes (metal content)	13 600	13 300	14 600	14 700	14 000
Copper, refined	tonnes	109 870	131 249	105 411	120 528	124 360
Copper, smelter	tonnes	118 911	142 154	110 479	112 687	116 455
Feldspar	tonnes	48 980	45 250	23 120	28 013	26 292
Gold, mine	kilograms	1 639	1 336	3 808	5 644	6 438
Pig iron	tonnes	2 915 130	2 942 946	2 042 000	2 564 000	2 600 000
Crude steel	tonnes	4 430 726	4 416 792	3 066 000	4 030 000	3 985 000
Ferro-alloys						
Ferro-chrome	tonnes	241 760	233 550	123 310	238 000	231 000
Mercury	kilograms	45 195	33 120	6 210	9 000	5 000
Mica	tonnes	11 449	10 706	7 855	13 809	12 896
Nickel, smelter/refinery	tonnes	55 000	51 963	41 556	49 772	49 823
Nickel, mined	tonnes (metal content)	3 600	6 200	1 600	12 100	19 100
Phosphate rock	tonnes	830 989	780 000	658 347	817 289	869 694
Selenium metal	tonnes	52	65	59	73	86
Silver, mine	kilograms (metal content)	44 895	69 906	70 062	64 596	73 081
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	194 400	226 000	153 600	250 000	338 000
Recovered (b)	tonnes (sulphur content)	* 326 000	331 000	273 600	270 000	320 000
Recovered (c)	tonnes (sulphur content)	125 000	117 000	127 000	122 000	133 300
Talc	tonnes	535 882	527 686	375 302	419 345	429 494
Wollastonite	tonnes	16 364	15 600	9 200	12 100	11 500
Slab zinc	tonnes	305 543	297 722	295 049	307 144	307 352
Zinc, mine	tonnes (metal content)	38 900	27 800	30 233	55 562	64 115

Notes

(a) Sales

(b) From metal sulphide processing

(c) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	837 957	850 685	645 609	1 396 025	2 020 822
Aluminium and bauxite						
Unwrought alloys	tonnes	12 924	14 239	8 939	15 346	11 289
Scrap	tonnes	38 364	37 345	34 910	33 304	38 862
Bentonite	tonnes	115	42	803	0	61
Bromine	kilograms	...	...	...	...	22 200
Cement						
Portland cement	tonnes	982	2 618	1 275	373	92
Chromium						
Ores and concentrates	tonnes	2 492	3 041	2 050	8 291	5 231
Metal	tonnes	—	1 034	1 577	1 813	2 366
Cobalt						
Oxides (b)	tonnes	* 2 400	* 2 600	* 3 100	* 5 400	* 6 400
Metal (b)	tonnes	* 5 700	* 5 700	* 4 500	* 3 900	* 4 200
Copper						
Scrap	tonnes	32 872	32 585	32 762	32 819	33 714
Unwrought, unrefined	tonnes	10 490	27 525	37 084	35 132	24 908
Unwrought, refined	tonnes	33 543	68 331	41 139	57 969	41 603

Finland

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Feldspar	tonnes	37 392	36 482	26 613	31 844	31 700
Gold						
Metal	kilograms	3 399	2 835	2 207	4 168	4 970
Waste and scrap	kilograms	200	466	539	878	1 268
Graphite	tonnes	46 162	0	5	8	3
Iron ore						
Burnt pyrites	tonnes	146 844	396 064	244 225	391 549	* 1 200 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	0	14 070	11 317	2 564	373
Ferro-chrome	tonnes	100 022	37 709	61 319	126 713	97 322
Other ferro-alloys	tonnes	99	110	308	560	211
Ingots, blooms, billets	tonnes	185 229	281 325	253 440	263 863	219 129
Scrap	tonnes	253 732	308 047	276 010	229 680	341 937
Kaolin	tonnes	10 597	8 587	13 832	18 176	30 760
Manganese						
Metal	tonnes	31	98	341	32	25
Mercury	kilograms	45 600	35 000	6 211	9 321	4 830
Mica						
Ground	tonnes	8 956	7 138	6 125	11 377	8 516
Nickel						
Ores and concentrates	tonnes	—	14 069	—	8 946	23 411
Scrap	tonnes	441	27	1 511	323	33
Unwrought	tonnes	(a) 43 428	40 108	37 202	(a) 31 275	(a) 39 472
Oxides (b)	tonnes	* 600	* 500	* 200	* 500	* 200
Natural gas	tonnes	1 218	1 420	4 557	9 052	4 729
Phosphate rock	tonnes	6 942	3 248	3 796	52 006	117 304
Platinum metals						
Platinum and platinum metals	kilograms	19	30	34 126	6 238	6 684
Waste and scrap	kilograms	463	218	267	723	75
Potash						
Sulphate	tonnes	49 485	17 181	45 818	53 850	* 61 000
Chloride	tonnes	50 342	50 822	26	178	195
Rare earths						
Metals	tonnes	104	...	—	—	...
Rare earth compounds	tonnes	1	103	0	44	67
Salt	tonnes	424	336	336	11 380	1 370
Silver						
Ores and concentrates	kilograms	700	38	—	—	46
Metal	kilograms	3 400	3 400	1 680	1 162	1 336
Sulphur and pyrites						
Pyrites (b)	tonnes	* 90 000	* 386 000	* 88 000	* 198 000	* 460 000
Sulphur	tonnes	3 513	2 521	35 701	2 715	2 404
Talc (a)	tonnes	* 284 000	* 320 000	* 174 000	* 222 000	* 259 000
Tin						
Scrap	tonnes	201	193	124	142	139
Titanium						
Oxides (b)	tonnes	* 103 000	* 106 000	* 86 000	* 88 000	* 80 000
Tungsten						
Metal	tonnes	113	360	291	450	588
Zinc						
Ores and concentrates	tonnes	...	1 238	1 426	22 479	50 656
Unwrought (a)	tonnes	260 434	257 411	268 893	266 738	265 686
Scrap	tonnes	1 274	964	1 012	1 369	1 215

Notes

(a) Including alloys

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	326 347	280 600	330 108	284 066	52 920
Aluminium and bauxite						
Bauxite	tonnes	4 909	10 461	1 584	9 294	3 036
Alumina	tonnes	3 296	2 350	1 733	2 401	2 422
Alumina hydrate	tonnes	37 163	22 243	20 614	29 607	25 676
Unwrought	tonnes	1 213	1 332	1 204	2 008	2 070
Unwrought alloys	tonnes	49 299	41 635	29 303	37 539	37 589
Scrap	tonnes	19 051	21 978	10 998	15 466	15 803
Antimony						
Oxide	tonnes	281	160	101	116	80
Barytes	tonnes	5 018	4 735	2 573	4 406	4 383
Bentonite	tonnes	37 741	31 445	19 429	16 293	21 194
Bromine	kilograms	100	146 800	242 982	318 478	322 231
Cement						
Cement clinkers	tonnes	314 436	236 439	536	14 191	16 790
Portland cement	tonnes	341 748	281 924	320 084	587 410	549 673
Other cement	tonnes	16 006	15 911	12 232	10 202	16 408
Chromium						
Ores and concentrates	tonnes	9 324	8 866	4 521	9 197	20 853
Metal	tonnes	282	327	105	139	194
Coal						
Hard coal (a)	tonnes	6 669 717	5 671 385	5 937 153	5 919 757	6 972 540
Cobalt						
Ore	tonnes	26 449	26 500	15 146	9 867	8 994
Metal	tonnes	27 590	36 405	24 002	30 623	53 059
Oxides	tonnes	346	167	46	233	172
Copper						
Ores and concentrates	tonnes	448 119	536 584	352 370	458 174	415 365
Unwrought	tonnes	2 777	2 490	16 298	4 212	4 711
Scrap	tonnes	2 644	4 146	7 349	6 967	7 726
Unwrought alloys	tonnes	4 178	3 542	2 415	2 783	2 528
Diamond						
Gem, rough	Carats	£222 000	£109 000	£56 000	£168 000	£131 000
Gem, cut	Carats	£3 004 000	£3 698 000	£3 133 000	£3 575 000	£3 346 000
Dust	Carats	682 850	625 200	273 415	519 830	780 000
Diatomite	tonnes	3 510	3 344	3 015	4 367	3 432
Feldspar	tonnes	1 023	699	851	1 209	1 217
Fluorspar	tonnes	15 064	12 366	23 178	16 740	17 605
Gypsum						
Crude	tonnes	423 355	408 509	146 141	235 787	182 082
Calcined	tonnes	8 588	6 598	5 664	7 281	11 020
Iodine	kilograms	3 400	3 400	2 901	1 443	1 174
Iron ore	tonnes	3 156 096	3 121 303	2 204 018	(b) 3 052 609	3 728 222
Iron, steel and ferro-alloys						
Pig iron	tonnes	53 901	42 681	18 097	36 120	31 235
Sponge and powder	tonnes	880 575	942 664	493 087	872 476	1 871
Ferro-chrome	tonnes	9 650	11 182	5 094	7 055	8 274
Ferro-silico-magnesium	tonnes	3 989	3 768	1 337	4 838	4 997
Ferro-manganese	tonnes	18 138	15 709	5 985	10 595	11 784
Ferro-silico-manganese	tonnes	34 994	34 139	20 642	30 204	30 169
Ferro-molybdenum	tonnes	1 892	1 730	584	1 316	1 717
Ferro-nickel	tonnes	54 106	50 294	17 098	25 746	40 962
Ferro-niobium	tonnes	570	757	318	629	849
Ferro-phosphorus	tonnes	560	380	285	543	499
Ferro-silicon	tonnes	31 814	29 740	21 437	31 395	30 207
Ferro-titanium and ferro-silico-titanium	tonnes	1 707	1 857	710	1 043	1 843
Other ferro-alloys	tonnes	311	425	91	235	193
Silicon metal	tonnes	1 318	1 638	548	1 390	1 281
Ingots, blooms, billets	tonnes	7 649	11 114	30 206	18 268	17 119
Scrap	tonnes	687 887	596 792	467 642	754 398	710 558
Kaolin	tonnes	1 155 041	1 147 687	708 210	941 387	936 544
Lead						
Unwrought	tonnes	2 283	3 195	2 346	1 512	2 446
Magnesite and magnesia						
Magnesia	tonnes	15 989	8 692	6 439	7 387	9 214

Finland

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Manganese						
Ores and concentrates	tonnes	27 251	24 926	12 224	21 961	3 792
Metal	tonnes	2 379	2 649	912	2 134	2 123
Mercury	kilograms	200	209	2 136	2 203	4 069
Mica	tonnes	4 098	4 383	1 988	3 647	3 351
Molybdenum						
Ores and concentrates	tonnes	5 789	3 498	40	—	...
Nickel						
Mattes, sinters etc	tonnes	50 856	33 247	22 715	33 986	35 284
Scrap	tonnes	299	481	149	17	40
Ores and concentrates	tonnes	256 932	290 914	185 202	217 164	276 892
Unwrought	tonnes	15 455	18 187	9 192	14 558	9 946
Unwrought alloys	tonnes	2	14	792	17 649	2 688
Crude petroleum	tonnes	12 221 330	11 908 304	11 516 562	11 211 580	11 504 505
Natural gas	tonnes	5 822 601	6 028 908	—	3 252 037	3 543 126
Phosphate rock	tonnes	113 286	118 749	—	28 144	...
Potash						
Chloride (c)	tonnes	163 600	164 400	84 600	194 800	211 100
Other potassic fertilisers	tonnes	663	184	74	117	4 602
Rare earths						
Cerium compounds	tonnes	92	101	57	72	52
Other rare earth compounds	tonnes	5	7	9	8	14
Salt	tonnes	409 761	397 033	417 495	384 089	452 873
Silver						
Metal	kilograms	55 400	44 800	(d)* 47 900	50 681	26 764
Sulphur and pyrites						
Sulphur	tonnes	415	9 073	1 673	21 676	38 923
Sulphur, sublimed and precipitated	tonnes	6	450	6	3	4
Talc	tonnes	663	503	525	1 202	1 929
Tin						
Unwrought (e)	tonnes	166	184	94	188	136
Titanium						
Titanium minerals	tonnes	20 578	26 200	8 794	...	...
Metal	tonnes	88	97	87	60	66
Oxides	tonnes	15 838	14 256	12 524	15 571	15 533
Tungsten						
Metal	tonnes	130	296	205	403	567
Zinc						
Ores and concentrates	tonnes	555 569	582 049	532 036	559 918	547 265
Unwrought (e)	tonnes	4 513	4 242	3 705	4 374	1 471

Notes

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

France

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	180 450 000	171 610 000	146 290 000	141 290 000	152 390 000
Crushed rock	tonnes	242 950 000	236 770 000	209 440 000	201 860 000	205 220 000
Bauxite	tonnes	160 000	* —	* —	* —	* —
Alumina	tonnes (Al ₂ O ₃ content)	* 600 000	630 000	348 000	481 000	470 000
Primary aluminium	tonnes	430 159	389 000	345 000	356 000	334 000
Bentonite	tonnes	...	...	25 000	25 000	20 000
Cadmium	tonnes	50	—	—	—	—
Cement						
Cement, clinker	tonnes	18 046 000	16 885 000	14 568 000	14 901 000	15 229 000
Cement, finished	tonnes	22 268 000	21 443 000	18 300 000	17 998 000	19 433 000
Cobalt, metal	tonnes	305	311	368	302	354
Diatomite	tonnes	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Feldspar	tonnes	* 650 000	* 650 000	* 550 000	* 650 000	* 650 000
Gypsum (a)	tonnes	* 3 500 000	2 338 910	1 887 260	2 065 814	2 452 204
Pig iron	tonnes	12 425 703	11 371 879	8 104 318	10 136 827	9 697 535
Crude steel	tonnes	19 249 862	17 879 161	12 840 108	15 413 577	15 780 639
Ferro-alloys						
Ferro-manganese	tonnes	* 144 000	* 47 000	* 46 000	* 138 000	* 140 000
Ferro-silico-manganese	tonnes	* 65 400	* 60 200	* 54 100	* 54 000	* 54 000
Ferro-silicon	tonnes	* 31 000	* 30 000	* 18 300	* 27 000	* 27 000
Silicon metal	tonnes	* 120 000	* 118 000	* 80 000	* 112 000	* 112 000
Kaolin	tonnes	307 253	335 520	350 000	350 000	350 000
Lead, refined	tonnes	* 88 000	82 100	62 000	71 000	80 000
Mica (b)	tonnes	* 20 000	* 20 000	* 18 000	* 19 000	* 19 000
Nickel, smelter/refinery	tonnes	14 800	13 700	13 900	14 400	13 700
Crude petroleum	tonnes	1 013 000	975 000	899 000	* 800 000	* 800 000
Natural gas	million m ³	1 023	925	813	* 800	* 800
Salt						
Salt in brine (c)	tonnes	6 139 840	* 6 000 000	6 100 000	* 6 100 000	* 6 000 000
Sillimanite minerals						
Andalusite	tonnes	* 65 000	* 65 000	65 000	65 000	65 000
Talc	tonnes	* 420 000	* 420 000	400 000	400 000	400 000
Slab zinc	tonnes	129 000	118 000	161 000	162 000	164 000

Notes

(1) France is believed to produce sulphur and may also produce fuller's earth

(a) Including anhydrite

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

(c) Salt; all forms

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	8 383 027	8 565 175	7 586 323	8 142 237	7 226 413
Aluminium and bauxite						
Bauxite	tonnes	26 661	12 295	9 296	12 116	13 594
Alumina	tonnes	276 207	319 388	178 570	270 769	281 634
Alumina hydrate	tonnes	146 531	130 881	100 293	131 035	83 054
Unwrought	tonnes	45 503	46 364	91 682	51 275	71 970
Unwrought alloys	tonnes	136 803	139 176	125 580	166 807	130 384
Scrap	tonnes	380 708	344 436	345 372	405 847	425 541
Antimony						
Metal	tonnes	19	44	34	145	24
Oxide	tonnes	6 109	6 261	6 788	6 853	6 124
Barytes (a)	tonnes	* 37 100	* 10 000	* 11 500	* 10 500	* 10 600
Bentonite	tonnes	13 454	12 231	9 211	12 709	11 472
Bismuth						
Metal	tonnes	52	74	6	20	49

France

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Cadmium						
Metal	tonnes	815	890	1 022	763	549
Cement						
Cement clinkers	tonnes	325 897	260 529	170 883	282 673	179 184
Portland cement	tonnes	590 684	578 230	621 568	766 167	764 305
Other cement	tonnes	13 999	10 056	—	—	—
France						
Chromium						
Ores and concentrates	tonnes	2 391	4 694	1 935	2 422	2 168
Metal	tonnes	7 225	7 844	4 767	7 612	8 034
Coal						
Anthracite	tonnes	13 161	57 436	5 272	9 551	4 760
Other coal	tonnes	200 682	128 614	91 266	121 733	113 718
Briquettes	tonnes	2 013	1 380	6 045	4 495	2 390
Cobalt						
Oxides	tonnes	91	28	50	3	3
Metal	tonnes	1 006	859	706	785	1 086
Copper						
Matte and cement	tonnes	331	252	720	102	247
Scrap	tonnes	284 890	266 930	235 277	292 631	305 883
Unwrought, unrefined	tonnes	399	512	1 002	7 356	9 545
Unwrought, refined	tonnes	67 366	54 893	59 426	23 258	35 309
Unwrought alloys	tonnes	13 140	13 049	9 455	12 786	10 624
Diamond						
Unsorted	Carats	22 863	9 386	8 723	3 743	869
Gem	Carats	227 372	293 420	394 845	145 682	129 943
Dust	Carats	428 165	838 620	940 610	1 609 470	8 768 911
Diatomite	tonnes	29 607	23 239	21 713	26 822	25 420
Feldspar	tonnes	261 112	244 785	182 575	226 149	226 934
Gold						
Metal	kilograms	20 229	22 247	22 447	27 729	45 303
Waste and scrap	kilograms	29 300	50 700	34 094	24 189	29 961
Graphite	tonnes	163	269	226	361	321
Gypsum						
Crude	tonnes	414 428	381 841	267 315	259 192	239 815
Calcined	tonnes	356 716	338 682	282 254	286 799	310 248
Iodine	kilograms	91 100	100 500	101 909	47 103	89 357
Iron ore	tonnes	69 376	57 720	124 492	(b) 19 349	129 374
Iron, steel and ferro-alloys						
Pig iron	tonnes	89 768	88 462	151 699	52 439	53 736
Sponge and powder	tonnes	17 948	14 698	5 261	18 917	20 857
Ferro-chrome	tonnes	1 217	2 098	2 217	2 447	2 035
Ferro-silico-magnesium	tonnes	16 377	28 255	10 787	39 115	34 196
Ferro-manganese	tonnes	8 049	2 457	2 882	2 200	2 554
Ferro-silico-manganese	tonnes	41 110	42 260	41 324	51 330	54 023
Ferro-molybdenum	tonnes	481	374	379	548	802
Ferro-nickel	tonnes	225	46	10 496	6 104	1 042
Ferro-niobium	tonnes	948	984	261	505	220
Ferro-silicon	tonnes	50 334	73 824	51 676	77 144	84 879
Ferro-titanium and Ferro-silico-titanium	tonnes	2 292	1 493	844	1 869	1 985
Other ferro-alloys	tonnes	32 186	447	134	76	102
Silicon metal	tonnes	138	292	231	261	298
Ingots, blooms, billets	tonnes	2 650 976	2 830 986	1 814 051	1 858 111	2 088 739
Scrap	tonnes	6 210 854	6 028 712	5 402 426	6 665 264	6 240 254
Kaolin	tonnes	412 284	319 301	268 674	272 778	273 802
Lead						
Unwrought	tonnes	14 936	17 630	14 554	36 293	40 470
Scrap	tonnes	29 544	15 888	20 815	37 654	20 392
Magnesite and magnesia						
Magnesite	tonnes	373	310	576	274	207
Magnesia	tonnes	48 852	57 342	35 523	52 553	35 543
Manganese						
Ores and concentrates (c)	tonnes	333 747	321 638	138 787	152 425	125 827
Metal	tonnes	327	488	631	717	805
Mercury	kilograms	9 100	1 700	718	1 595	49 992
Mica	tonnes	13 959	13 923	10 819	12 455	12 821

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Molybdenum						
Ores and concentrates	tonnes	485	55	75	205	352
Nickel						
Mattes, sinters etc	tonnes	517	178	68	315	1 306
Scrap	tonnes	7 578	7 558	11 435	30 601	11 685
Unwrought	tonnes	12 308	10 754	12 095	9 376	10 997
Unwrought alloys	tonnes	1 475	2 475	1 377	1 307	1 875
Crude petroleum	tonnes	190	65	1 689	161 761	467 914
Natural gas	tonnes	10 247 611	22 087 224	3 469 724	2 908 272	8 017 462
Phosphate rock (a)	tonnes	* 20 000	* 22 000	* 22 000	* 18 000	* 19 000
Platinum metals						
Platinum	kilograms	4 758	2 033	1 140	1 884	2 566
Other platinum metals	kilograms	2 800	2 120	1 396	914	1 255
Waste and scrap	kilograms	190 100	282 400	609 699	179 798	270 355
Potash						
Sulphate	tonnes	33 446	34 777	18 248	17 085	25 238
Chloride	tonnes	8 166	11 416	9 858	36 215	15 947
Other potassic fertilisers	tonnes	278	327	414	1 788	2 772
Rare earths						
Metals	tonnes	11	11	3	8	11
Rare earth compounds	tonnes	2 545	1 854	1 244	3 411	2 789
Ferro-cerium and other pyrophoric alloys	tonnes	133	—	0	...	—
Salt	tonnes	363 438	231 953	277 617	297 909	190 124
Sillimanite minerals	tonnes	66 776	66 242	38 494	49 011	55 316
Silver						
Ores and concentrates	kilograms	26 500	51 100	1 597 157	—	4 053
Metal	kilograms	208 832	215 148	169 806	258 205	511 716
Sulphur and pyrites						
Sulphur	tonnes	59 934	246 005	313 229	296 345	248 989
Sulphur, sublimed and precipitated	tonnes	680	2 843	445	565	556
Talc	tonnes	276 014	269 771	224 419	270 494	269 518
Tantalum and niobium						
Tantalum	tonnes	21	18	37	20	25
Tin						
Concentrates	tonnes	4	16	44	341	89
Unwrought	tonnes	552	441	402	423	413
Unwrought alloys	tonnes	884	236	140	143	178
Scrap	tonnes	590	654	282	342	532
Titanium						
Titanium minerals	tonnes	2 242	93	150	283	73
Metal	tonnes	5 112	5 391	4 523	4 907	5 333
Oxides	tonnes	171 337	148 573	113 798	129 197	140 278
Tungsten						
Metal	tonnes	1 148	676	398	473	589
Carbide	tonnes	431	354	261	288	272
Zinc						
Ores and concentrates	tonnes	51 781	78 398	39 350	49 652	54 609
Unwrought	tonnes	29 305	31 601	64 773	79 727	105 934
Unwrought alloys	tonnes	7 238	5 073	9 362	1 851	2 549
Scrap	tonnes	56 200	43 770	45 986	51 755	42 736
Zirconium						
Concentrates	tonnes	1 832	1 440	1 243	2 044	4 973

Notes

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

(b) Including burnt pyrites

(c) Including manganeseiferous Iron ore

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	11 381 954	11 214 300	10 907 837	9 838 820	11 224 302
Aluminium and bauxite						
Bauxite	tonnes	2 001 899	1 788 358	1 024 569	984 804	1 577 328
Alumina	tonnes	710 029	722 371	849 798	734 935	619 175
Alumina hydrate	tonnes	46 584	51 289	46 113	47 336	47 510
Unwrought	tonnes	147 693	113 771	87 130	103 937	152 348
Unwrought alloys	tonnes	449 505	396 382	311 287	364 962	387 038
Scrap	tonnes	191 897	197 876	216 872	260 871	292 597
Antimony						
Metal	tonnes	8 568	9 078	7 682	9 068	7 413
Oxide	tonnes	3 315	1 923	1 277	1 577	2 854
Arsenic						
Metallic arsenic	tonnes	19	8	4	17	21
Asbestos						
Unmanufactured	tonnes	169	120	34	42	19
Barytes	tonnes	40 760	34 166	26 227	41 513	29 516
Bentonite	tonnes	243 350	198 787	158 715	159 096	194 555
Bismuth						
Metal	tonnes	382	219	102	100	205
Bromine	kilograms	12 146 400	12 428 800	11 720 470	5 275 994	8 449 327
Cadmium						
Metal	tonnes	771	645	455	212	100
Oxide	tonnes	885	1 114	605	18	7
Cement						
Cement clinkers	tonnes	1 739 962	1 338 362	784 892	838 538	849 577
Portland cement	tonnes	1 793 027	1 940 065	1 744 423	2 422 582	3 113 977
Other cement	tonnes	1 223 442	1 185 083	980 685	559 436	246 702
Chromium						
Ores and concentrates	tonnes	20 156	26 952	10 813	11 273	15 835
Metal	tonnes	717	1 335	478	1 155	524
Coal						
Anthracite	tonnes	3 532 378	2 817 048	1 914 614	2 291 609	1 304 643
Other coal	tonnes	15 425 960	18 470 782	13 893 343	16 688 152	14 073 053
Lignite	tonnes	51 589	68 426	51 577	52 076	82 504
Briquettes	tonnes	175 350	154 140	151 863	129 465	102 257
Cobalt						
Metal	tonnes	3 137	2 251	1 203	1 681	2 338
Oxides	tonnes	658	574	578	635	841
Copper						
Unwrought	tonnes	432 225	435 455	265 766	227 271	226 312
Scrap	tonnes	90 195	81 036	50 753	72 220	81 824
Unwrought alloys	tonnes	14 389	8 987	7 980	9 242	9 148
Diamond						
Gem, rough	Carats	656	344	1 854	469	2 960
Gem, cut	Carats	439 204	450 568	691 852	468 867	660 561
Industrial	Carats	81 570	73 641	40 221	30 480	30 012
Dust	Carats	8 984 745	13 938 146	9 314 960	12 512 821	22 167 841
Diatomite	tonnes	14 371	14 308	15 163	17 477	14 098
Feldspar	tonnes	20 974	59 857	43 981	31 721	34 907
Fluorspar	tonnes	48 758	21 256	13 124	14 601	14 655
Gold						
Metal	kilograms	23 567	20 071	16 877	20 037	19 721
Waste and scrap	kilograms	1 100	3 300	6 248	25 070	3 886
Graphite	tonnes	19 250	20 618	10 376	9 981	11 725
Gypsum						
Crude	tonnes	580 341	492 072	354 086	313 842	249 933
Calcined	tonnes	111 325	116 678	101 840	85 849	76 800
Iodine	kilograms	1 687 900	1 875 400	1 189 569	1 530 436	1 492 427
Iron ore						
Iron ore	tonnes	20 065 037	18 220 893	10 014 901	15 259 049	13 531 471
Burnt pyrites	tonnes	2 107	4 948	5 375	11 603	11 452

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	195 466	202 077	115 722	139 186	160 336
Sponge and powder	tonnes	147 662	89 809	26 695	52 795	84 787
Ferro-chrome	tonnes	106 513	111 584	71 570	111 080	99 240
Ferro-silico-chrome	tonnes	8	69	20	50	50
Ferro-silico-magnesium	tonnes	26 899	26 786	12 067	17 244	16 137
Ferro-manganese	tonnes	63 487	69 464	33 948	44 405	43 245
Ferro-silico-manganese	tonnes	45 827	54 004	34 758	35 405	44 217
Ferro-molybdenum	tonnes	5 650	5 637	3 263	3 720	4 857
Ferro-nickel	tonnes	6 373	5 887	12 709	7 724	16 270
Ferro-niobium	tonnes	2 785	3 266	1 183	2 195	2 225
Ferro-phosphorus	tonnes	2 528	2 698	1 670	2 656	2 227
Ferro-silicon	tonnes	52 945	61 740	30 913	51 906	65 306
Ferro-titanium and Ferro-silico-titanium	tonnes	10 009	8 293	2 647	5 457	5 756
Ferro-tungsten and Ferro-silico-tungsten	tonnes	597	666	247	343	378
Ferro-vanadium	tonnes	1 432	1 575	819	1 065	1 113
Silicon metal	tonnes	19 659	23 885	15 243	19 135	19 373
Ingots, blooms, billets	tonnes	1 998 943	1 747 005	1 113 710	1 807 094	2 047 778
Scrap	tonnes	3 197 843	3 241 199	2 407 619	2 450 993	2 682 258
Kaolin	tonnes	311 060	263 449	200 203	231 779	220 764
Lead						
Unwrought	tonnes	118 384	103 535	42 187	34 090	39 305
Scrap	tonnes	34 169	22 490	13 579	12 848	15 182
Lithium						
Oxides	tonnes	314	256	362	570	479
Carbonate	tonnes	1 289	1 251	1 172	1 137	2 792
Magnesite and magnesia						
Magnesite	tonnes	2 355	2 378	1 209	784	1 087
Magnesia	tonnes	163 908	164 235	117 821	126 821	127 469
Manganese						
Ores and concentrates (a)	tonnes	678 369	876 961	193 684	721 272	647 182
Metal	tonnes	15 198	19 115	8 905	17 586	21 186
Mercury	kilograms	190 000	105 300	222 224	19 073	1 406
Mica						
Unmanufactured	tonnes	197	1 144	370	255	848
Ground	tonnes	2 335	2 031	1 844	1 861	2 149
Molybdenum						
Ores and concentrates	tonnes	1 511	1 933	769	1 209	1 764
Metal	tonnes	830	1 094	541	888	1 098
Oxides	tonnes	670	1 191	1 018	1 095	1 465
Nickel						
Mattes, sinters etc	tonnes	19 864	18 952	20 015	19 921	19 954
Ores and concentrates	tonnes	1 131	413	1 783	265	37
Scrap	tonnes	1 341	2 166	1 265	2 164	2 988
Unwrought	tonnes	25 752	23 368	10 909	13 964	21 693
Unwrought alloys	tonnes	7 702	9 386	5 364	5 029	7 345
Oxides	tonnes	542	560	310	524	412
Crude petroleum	tonnes	81 011 061	81 854 226	70 343 956	59 946 970	62 875 826
Natural gas	tonnes	75 216 254	79 101 617	32 440 935	41 624 014	50 897 525
Phosphate rock	tonnes	442 826	374 792	130 323	305 259	264 541
Platinum metals						
Platinum	kilograms	6 263	8 471	3 633	4 516	4 010
Platinum metals	kilograms	3 631	4 404	5 348	3 006	...
Waste and scrap	kilograms	114 300	241 200	359 138	143 885	296 178
Potash						
Sulphate	tonnes	58 088	53 124	12 477	51 068	40 885
Chloride	tonnes	900 560	837 119	242 713	626 635	597 658
Other potassic fertilisers	tonnes	16 601	18 484	7 287	13 998	6 814
Rare earths						
Metals	tonnes	417	447	402	372	506
Cerium compounds	tonnes	8 831	9 116	6 112	5 687	1 867
Other rare earth compounds	tonnes	1 232	768	874	1 408	1 359
Ferro-cerium and other pyrophoric alloys	tonnes	2	3	26	83	388
Salt	tonnes	592 976	578 882	918 448	1 653 101	1 622 835
Sillimanite minerals						
Sillimanite minerals	tonnes	3 464	3 046	3 209	3 110	3 502
Mullite	tonnes	2 563	3 209	1 327	2 663	3 831

France

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Silver						
Ores and concentrates	kilograms	39 800	21 300	4 279	4 433 810	8 499
Metal	kilograms	643 280	544 821	435 001	954 773	908 080
Sulphur and pyrites						
Pyrites	tonnes	160	173	159	183	206
Sulphur	tonnes	56 072	50 092	55 212	78 366	92 106
Sulphur, sublimed and precipitated	tonnes	797	5 861	403	410	441
Talc	tonnes	77 772	76 147	72 274	59 722	48 155
Tantalum and niobium						
Tantalum	tonnes	83	84	43	22	39
Tin						
Unwrought	tonnes	7 689	6 506	5 869	5 787	5 252
Unwrought alloys	tonnes	409	554	207	389	283
Scrap	tonnes	432	588	259	100	61
Titanium						
Ilmenite	tonnes	60 739	58 423	17 766	...	...
Other titanium minerals	tonnes	71 292	12 531	11 964	(b) 50 893	(b) 67 259
Metal	tonnes	10 521	10 036	7 282	7 766	10 026
Oxides	tonnes	126 786	128 226	136 389	148 994	138 687
Titanium slag	tonnes	104 682	100 782	92 290	15 218	246
Tungsten						
Metal	tonnes	823	898	547	867	1 027
Carbide	tonnes	866	859	311	359	583
Vanadium						
Pentoxide	tonnes	656	674	371	574	605
Zinc						
Ores and concentrates	tonnes	259 750	238 502	241 976	222 580	234 060
Unwrought	tonnes	166 110	164 172	128 674	131 993	151 988
Unwrought alloys	tonnes	44 124	45 480	27 000	34 205	34 022
Scrap	tonnes	7 247	3 694	4 604	3 003	3 853
Zirconium						
Concentrates	tonnes	47 719	55 030	25 087	25 310	35 922
Metal	tonnes	570	456	553	326	687

Notes

(a) Including manganiferous Iron ore

(b) Includes Ilmenite

Germany

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	263 300 000	260 000 000	245 000 000	239 000 000	253 000 000
Crushed rock	tonnes	215 000 000	215 000 000	217 000 000	208 000 000	229 000 000
Alumina	tonnes (Al ₂ O ₃ content)	* 900 000	* 1 000 000	1 154 000	* 1 000 000	* 1 000 000
Primary aluminium	tonnes	551 000	605 880	291 750	402 480	432 472
Barytes	tonnes	88 265	78 941	45 606	55 887	55 342
Bentonite	tonnes	384 709	414 336	326 461	362 623	375 332
Cement						
Cement, clinker	tonnes	26 992 000	25 366 000	23 232 000	22 996 000	24 775 000
Cement, finished	tonnes	33 382 000	33 581 000	30 441 000	29 915 000	33 540 000
Coal						
Anthracite and bituminous	tonnes	24 185 000	19 143 000	14 971 000	14 110 000	12 960 000
Brown coal	tonnes	180 409 054	175 313 020	169 857 142	169 402 544	176 502 000
Copper, refined	tonnes	665 517	689 763	668 945	704 300	708 800
Copper, smelter	tonnes	270 200	295 000	251 000	378 700	346 200
Feldspar	tonnes	171 303	161 416	140 000	* 150 000	* 150 000
Fluorspar	tonnes	54 359	48 519	49 962	59 086	65 619
Gypsum (a)	tonnes	1 898 000	2 112 000	1 898 000	1 822 000	2 021 000
Indium	tonnes	* 10	* 10	* 10	* 10	* 10
Iron ore (b)(c)	tonnes	421 711	455 100	363 699	390 353	489 091
Pig iron	tonnes	31 700 000	29 105 000	20 104 000	28 560 000	27 943 000
Crude steel	tonnes	48 550 000	45 832 000	32 670 000	43 830 000	44 284 000
Ferro-alloys						
Ferro-chrome	tonnes	22 030	26 960	13 667	* 20 000	* 20 000
Other ferro-alloys	tonnes	* 5 000	* 5 000	—	—	* —
Silicon metal	tonnes	29 379	29 092	27 620	30 105	30 134
Kaolin (d)	tonnes	3 842 514	3 622 159	4 513 753	4 578 097	4 898 516
Lead, refined	tonnes	355 000	415 100	390 600	405 400	429 100
Crude petroleum	tonnes	3 415 374	3 053 998	2 800 063	2 511 174	2 677 136
Natural gas	million m ³	18 075	16 547	15 554	13 666	12 952
Potash						
Potassic salts	tonnes (K ₂ O content)	3 636 504	3 280 467	1 825 139	3 023 941	3 214 696
Salt						
Rock salt	tonnes	4 826 000	5 545 438	7 709 844	9 992 156	8 765 168
Brine salt	tonnes	1 010 000	989 208	1 862 630	2 118 484	2 217 205
Salt in brine	tonnes	7 558 000	7 306 745	* 7 300 000	* 4 500 000	* 6 458 628
Selenium metal	tonnes	* 250	* 250	* 230	* 250	* 250
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	1 650 100	1 578 000	1 504 000	1 455 000	1 465 000
Recovered (f)	tonnes (sulphur content)	35 900	39 000	565 000	513 000	542 210
Uranium, mine	tonnes (metal content)	41	—	—	* 8	51
Slab zinc	tonnes	294 735	292 284	* 153 000	165 000	170 000

Notes

- (1) Germany is also believed to produce strontium minerals and tellurium metal
(2) In addition to the countries producing sillimanite minerals, synthetic mullite is believed to be produced in Germany

- (a) Including anhydrite
(b) Including manganese Iron ore
(c) Used as aggregate in the construction industry
(d) Washed and dried
(e) From petroleum refining and/or natural gas
(f) Other

Germany

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	29 024 954	29 470 321	27 973 749	25 337 558	29 162 240
Aluminium and bauxite						
Bauxite	tonnes	36 361	33 636	16 591	26 178	26 306
Alumina	tonnes	282 245	305 514	382 750	424 236	372 191
Alumina hydrate	tonnes	672 561	634 635	461 601	551 817	485 074
Unwrought	tonnes	61 090	75 386	67 356	111 815	83 675
Unwrought alloys	tonnes	361 917	359 628	288 023	361 396	374 917
Scrap	tonnes	770 042	702 739	753 218	823 810	947 252
Antimony						
Metal	tonnes	141	33	101	132	239
Oxide	tonnes	1 130	932	448	961	1 132
Arsenic						
Metallic arsenic	tonnes	32	41	31	57	66
Barytes	tonnes	43 104	38 111	45 360	(a)* 33 000	(a)* 34 000
Bentonite	tonnes	81 272	67 109	52 424	84 920	91 477
Bismuth						
Metal	tonnes	901	276	143	178	210
Bromine	kilograms	3 400	14 400	6 031	6 119	7 543
Cadmium						
Metal	tonnes	...	287	276	523	348
Cement						
Cement clinkers	tonnes	1 051 733	1 120 078	467 042	680 552	761 406
Portland cement	tonnes	4 874 062	5 115 858	4 445 980	4 173 112	5 002 240
Other cement	tonnes	2 086 591	2 077 175	2 101 709	2 010 734	2 159 075
Chromium						
Ores and concentrates	tonnes	20 629	23 563	15 922	32 070	53 989
Metal	tonnes	3 114	5 379	4 685	4 606	2 995
Coal						
Anthracite	tonnes	7 444	16 575	179 880	222 458	165 471
Other coal	tonnes	309 501	518 629	129 955	31 492	39 712
Lignite	tonnes	140 400	425 680	523 720	696 279	789 315
Briquettes	tonnes	72 008	370 211	493 552	463 102	467 383
Cobalt						
Ore	tonnes	457	145	103	88	—
Oxides	tonnes	158	158	69	102	113
Metal	tonnes	2 067	1 588	1 067	1 481	1 393
Copper						
Ores and concentrates	tonnes	61 535	48 234	58 932	48 761	54 856
Matte and cement	tonnes	24	2	1	8 431	9
Unwrought	tonnes	117 701	125 162	194 104	136 110	196 627
Scrap	tonnes	480 700	478 643	449 990	578 448	585 346
Unwrought alloys	tonnes	22 436	16 485	9 781	13 276	12 276
Diamond						
Unsorted (d)	Carats	£* 760 000	£* 1 285 000	£* 775 000	£* 863 000	£* 489 000
Gem	Carats	157 055	155 988	179 213	161 687	154 445
Industrial	Carats	8 952	11 966	22 919	7 080	5 224
Dust	Carats	3 366 830	3 410 935	2 560 000	5 355 000	12 810 000
Diatomite	tonnes	7 949	7 189	5 035	5 361	14 251
Feldspar	tonnes	125 258	121 777	70 130	78 610	76 300
Fluorspar	tonnes	56 023	50 338	31 157	33 487	45 955
Gold						
Metal	kilograms	71 250	* 120 000	113 039	221 003	226 243
Waste and scrap	kilograms	14 800	4 800	62 603	904 379	688 482
Graphite	tonnes	23 993	18 950	12 722	20 583	15 600
Gypsum						
Crude	tonnes	423 152	447 140	393 691	430 977	516 024
Calcined	tonnes	1 703 212	1 775 467	1 290 391	1 558 288	1 333 953
Iodine	kilograms	183 200	97 400	112 690	62 331	124 705
Iron ore						
Iron ore	tonnes	17 770	34 495	4 497	22 373	54 555
Burnt pyrites	tonnes	7 491	12 700	10 865	7 994	15 999

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	145 453	153 917	86 491	180 542	183 310
Sponge and powder	tonnes	147 303	95 846	28 183	56 763	43 160
Ferro-chrome	tonnes	39 892	36 856	27 831	54 956	45 048
Ferro-silico-magnesium	tonnes	24 051	22 191	9 323	12 517	11 077
Ferro-manganese	tonnes	14 733	11 802	9 043	12 387	22 690
Ferro-silico-manganese	tonnes	8 684	10 354	4 436	3 377	17 756
Ferro-molybdenum	tonnes	3 636	3 858	3 229	3 174	4 440
Ferro-nickel	tonnes	2 116	1 036	1 725	7 869	5 775
Ferro-niobium	tonnes	1 149	1 057	321	538	237
Ferro-phosphorus	tonnes	839	477	475	1 452	1 233
Ferro-silicon	tonnes	51 343	63 858	63 214	95 683	81 464
Ferro-titanium and Ferro-silico-titanium	tonnes	6 011	4 237	1 662	4 180	5 350
Ferro-tungsten and Ferro-silico-tungsten	tonnes	480	460	339	640	402
Ferro-vanadium	tonnes	558	413	755	659	391
Ingots, blooms, billets	tonnes	2 496 951	2 047 223	1 655 376	2 150 091	2 150 120
Scrap	tonnes	7 770 479	8 268 662	7 275 257	9 175 802	9 859 197
Kaolin	tonnes	507 867	498 165	374 313	389 927	431 815
Lead						
Ores and concentrates	tonnes	467	—	1 000	4 296	19 697
Unwrought	tonnes	136 609	177 129	204 075	203 077	196 443
Scrap	tonnes	17 799	13 133	13 100	9 892	12 932
Lithium						
Carbonate	tonnes	2 705	2 290	1 880	2 387	2 927
Magnesite and magnesia						
Magnesite	tonnes	463	22	140	229	1 303
Magnesia	tonnes	87 264	72 684	58 604	94 198	67 605
Manganese						
Ores and concentrates	tonnes	5 761	3 321	3 710	4 480	5 035
Metal	tonnes	15 414	12 921	6 727	8 243	8 907
Mercury	kilograms	42 300	111 100	120 587	110 405	197 989
Mica	tonnes	4 957	4 713	2 888	4 197	4 479
Molybdenum						
Ores and concentrates	tonnes	2 723	3 575	2 502	5 017	3 955
Metal	tonnes	346	2 857	725	763	1 248
Nickel						
Mattes, sinters etc	tonnes	18 473	20 202	8 687	13 981	15 998
Scrap	tonnes	7 383	5 646	8 227	9 563	8 600
Ores and concentrates	tonnes	2 520	316	1 619	2 673	299
Unwrought	tonnes	4 256	5 200	2 617	3 751	4 184
Unwrought alloys	tonnes	9 664	8 988	3 083	1 866	4 423
Crude petroleum	tonnes	196 926	40 011	265 799	180 515	283 784
Natural gas (a)	tonnes	* 17 703 000	* 19 648 000	* 11 354 000	* 14 165 000	* 13 906 000
Phosphate rock	tonnes	168	314	137	489	1 641
Platinum metals						
Platinum	kilograms	28 100	27 700	36 204	24 597	24 994
Palladium	kilograms	27 800	28 600	43 329	35 462	43 952
Other Platinum metals	kilograms	22 300	24 700	65 029	33 299	28 158
Waste and scrap	kilograms	3 399 700	3 238 800	3 352 271	5 997 852	6 960 588
Potash						
Potassic fertilisers (b)(c)	tonnes	3 636 504	3 280 467	1 825 139	3 023 941	3 214 696
Rare earths						
Metals	tonnes	8	3	19	25	29
Rare earth compounds	tonnes	217	188	652	601	660
Salt	tonnes	2 787 088	2 782 861	2 744 985	3 097 654	2 735 634
Silver						
Metal	kilograms	2 884 200	3 012 400	2 169 994	3 397 674	3 368 313
Sulphur and pyrites						
Pyrites	tonnes	741	485	320	755	440
Sulphur	tonnes	828 544	654 808	681 563	671 836	721 717
Talc	tonnes	5 394	6 382	3 662	4 773	6 243
Tantalum and niobium						
Tantalum	tonnes	199	299	8	18	38

Germany

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Tin						
Concentrates	tonnes	—	—	163	32	...
Unwrought	tonnes	1 246	1 612	1 000	1 253	1 348
Unwrought alloys	tonnes	1 371	1 530	1 088	956	1 459
Scrap	tonnes	1 222	1 649	1 129	1 440	1 175
Titanium						
Titanium minerals	tonnes	776	3 322	6 864	22 384	18 932
Metal	tonnes	8 713	8 278	5 367	9 351	13 954
Oxides	tonnes	409 495	367 545	351 872	391 981	345 661
Tungsten						
Ores and concentrates	tonnes	—	206	196	164	976
Metal	tonnes	3 020	4 687	2 655	3 119	3 064
Vanadium						
Pentoxide	tonnes	1 250	1 173	...	...	...
Zinc						
Ores and concentrates	tonnes	612	1 835	888	1 674	73 980
Unwrought	tonnes	77 443	70 724	63 165	52 483	55 518
Unwrought alloys	tonnes	30 439	28 835	24 163	31 857	31 170
Scrap	tonnes	59 297	51 801	68 648	74 208	75 168
Zirconium						
Concentrates (a)	tonnes	* 16 900	* 12 000	* 7 300	* 10 800	* 10 800
Metal	tonnes	514	625	386	384	792

Notes

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

(b) K₂O content

(c) Including sulphate, chloride and other potassic fertilisers

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	11 913 688	13 369 162	12 866 444	11 936 108	13 786 596
Aluminium and bauxite						
Bauxite	tonnes	3 141 693	2 995 241	2 069 109	2 005 053	2 436 413
Alumina	tonnes	790 515	1 017 746	518 456	661 379	654 946
Alumina hydrate	tonnes	266 042	241 736	168 216	260 488	176 692
Unwrought	tonnes	786 506	693 075	495 511	799 780	768 797
Unwrought alloys	tonnes	1 444 289	1 370 179	1 157 271	1 591 991	1 810 035
Scrap	tonnes	613 084	543 839	362 582	479 413	535 304
Antimony						
Metal	tonnes	612	700	552	494	456
Oxide	tonnes	8 527	8 672	5 072	7 986	6 949
Arsenic						
Metallic arsenic	tonnes	...	...	...	69	9
Asbestos						
Unmanufactured	tonnes	54	54	36	72	88
Barytes	tonnes	320 702	278 335	129 220	263 839	291 716
Bentonite	tonnes	351 991	361 782	335 990	386 261	447 793
Bismuth						
Metal	tonnes	1 130	1 262	881	1 052	1 282
Bromine	kilograms	607 500	646 400	456 893	657 303	722 036
Cadmium						
Metal	tonnes	22	53	11	18	40
Oxide	tonnes	423	507	522	625	489
Cement						
Cement clinkers	tonnes	92 757	14 184	9 200	18 037	52 111
Portland cement	tonnes	833 311	770 566	904 023	939 310	1 054 856
Other cement	tonnes	311 152	293 583	272 741	255 027	217 931
Chromium						
Ores and concentrates	tonnes	154 367	175 277	45 684	101 972	180 377
Metal	tonnes	8 454	7 022	3 328	4 783	5 931

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Coal						
Anthracite	tonnes	4 353 426	4 137 690	3 893 429	3 643 048	2 535 881
Other coal	tonnes	37 993 445	37 215 220	30 926 568	34 850 251	40 187 648
Lignite	tonnes	15 411	39 248	37 839	24 400	41 768
Briquettes	tonnes	96 169	70 400	132 895	404 681	291 675
Cobalt						
Ore	tonnes	12	15	42	115	170
Metal	tonnes	3 150	2 921	2 017	3 864	4 946
Oxides	tonnes	898	1 057	902	1 069	900
Copper						
Ores and concentrates	tonnes	1 300 491	1 088 291	1 252 430	1 128 472	1 124 525
Matte and cement	tonnes	14 880	10 102	4 133	12 739	2 742
Scrap	tonnes	595 751	563 560	454 753	626 442	647 084
Unwrought, unrefined	tonnes	31 830	24 706	46 840	23 331	68 147
Unwrought, refined	tonnes	844 747	833 354	658 703	743 934	737 763
Unwrought alloys	tonnes	48 261	40 073	38 538	36 249	35 493
Diamond						
Gem	Carats	515 262	709 636	301 075	377 399	371 058
Industrial	Carats	1 090 991	505 400	211 630	122 838	141 851
Dust	Carats	45 596 025	45 914 930	25 210 000	60 060 000	89 235 000
Diatomite	tonnes	42 882	49 237	38 258	43 487	39 892
Feldspar	tonnes	143 596	143 758	130 081	139 663	153 713
Fluorspar	tonnes	346 581	357 914	187 330	261 999	380 027
Gold						
Metal	kilograms	68 549	118 516	164 511	192 815	162 289
Waste and scrap	kilograms	1 304 700	1 390 000	1 126 326	1 396 280	2 680 174
Graphite	tonnes	54 627	62 180	33 293	56 333	57 411
Gypsum						
Crude	tonnes	80 449	54 216	28 315	29 132	26 182
Calcined	tonnes	93 275	76 992	75 319	82 341	80 574
Iodine	kilograms	1 102 600	1 150 600	1 168 886	1 422 575	1 576 165
Iron ore	tonnes	(a) 46 194 946	44 339 072	(a) 28 819 242	(a) 43 085 386	(a) 41 682 798
Iron, steel and ferro-alloys						
Pig iron	tonnes	655 022	713 470	402 132	421 287	589 302
Sponge and powder	tonnes	249 673	90 069	294 393	500 970	326 097
Ferro-chrome	tonnes	484 276	544 619	305 008	454 005	447 242
Ferro-silico-chrome	tonnes	14 426	12 886	8 648	29 047	18 334
Ferro-silico-magnesium	tonnes	25 758	23 645	12 238	14 754	22 190
Ferro-manganese	tonnes	217 428	209 083	122 063	203 200	232 613
Ferro-silico-manganese	tonnes	210 703	156 484	111 008	185 067	208 913
Ferro-molybdenum	tonnes	18 423	17 434	12 484	16 375	18 760
Ferro-nickel	tonnes	169 677	177 851	127 087	192 394	155 881
Ferro-niobium	tonnes	6 176	6 269	4 047	5 923	6 579
Ferro-phosphorus	tonnes	6 519	4 801	1 332	6 067	5 137
Ferro-silicon	tonnes	274 783	215 374	146 127	272 466	298 352
Ferro-titanium and Ferro-silico-titanium	tonnes	15 339	13 824	5 461	8 754	9 818
Ferro-tungsten and Ferro-silico-tungsten	tonnes	1 512	2 182	1 366	787	977
Ferro-vanadium	tonnes	5 711	5 333	3 421	5 034	5 305
Silicon metal	tonnes	190 933	225 185	183 516	255 977	241 565
Ingots, blooms, billets	tonnes	3 095 162	2 970 042	1 171 865	1 611 091	2 401 066
Scrap	tonnes	5 920 061	5 675 167	3 865 110	5 305 194	6 658 407
Kaolin	tonnes	717 102	647 278	585 675	715 770	705 107
Lead						
Ores and concentrates	tonnes	211 132	212 602	234 102	184 018	205 464
Unwrought	tonnes	138 978	118 779	103 642	157 301	157 653
Scrap	tonnes	30 313	28 231	40 547	39 653	35 823
Lithium						
Oxides	tonnes	5 163	5 420	(c)* 3 000	(c)* 1 900	(c)* 500
Carbonate	tonnes	8 131	7 098	4 433	6 486	5 735
Magnesite and magnesia						
Magnesite	tonnes	17 029	8 420	6 731	12 751	5 625
Magnesia	tonnes	568 508	562 618	276 674	473 545	515 139
Manganese						
Ores and concentrates (b)	tonnes	15 997	14 916	14 645	17 346	19 137
Metal	tonnes	42 368	47 581	33 989	43 346	40 705
Mercury	kilograms	84 100	19 700	28 678	104 241	134 666

Germany

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Mica						
Unmanufactured	tonnes	16	386	221	1 330	10 527
Ground	tonnes	36 345	33 175	25 682	29 716	26 405
Waste	tonnes	782	966	316	428	20
Molybdenum						
Ores and concentrates	tonnes	10 721	9 645	6 953	9 134	9 500
Metal	tonnes	4 238	4 132	1 726	3 038	3 761
Oxides	tonnes	1 776	1 905	1 661	2 890	2 699
Nickel						
Mattes, sinters etc	tonnes	1 911	797	561	849	2 048
Scrap	tonnes	19 799	18 316	8 259	8 584	11 924
Ores and concentrates	tonnes	1 532	1 310	1 087	1 667	1 184
Unwrought	tonnes	74 083	68 767	42 201	69 282	68 023
Unwrought alloys	tonnes	2 531	6 102	3 839	8 023	11 778
Oxides	tonnes	593	617	463	621	476
Crude petroleum	tonnes	105 162 534	105 835 665	97 648 203	91 239 711	87 338 296
Natural gas	tonnes	75 980 087	78 201 702	78 990 573	82 784 241	87 762 701
Phosphate rock	tonnes	115 109	145 905	28 863	120 580	117 971
Platinum metals						
Platinum	kilograms	51 500	47 100	42 452	40 983	38 019
Palladium	kilograms	54 700	55 100	47 092	53 479	50 926
Other Platinum metals	kilograms	9 700	6 400	12 120	19 655	21 319
Waste and scrap	kilograms	11 442 800	10 983 600	6 224 314	8 069 744	7 290 427
Potash						
Sulphate	tonnes	17 108	11 801	13 194	20 786	22 490
Chloride	tonnes	101 081	124 643	75 154	131 645	131 244
Other potassic fertilisers	tonnes	1 344	2 503	633	8 065	11 726
Rare earths						
Metals	tonnes	410	430	106	459	263
Cerium compounds	tonnes	901	673	448	1 006	844
Other rare earth compounds	tonnes	9 748	10 192	7 755	9 999	6 904
Ferro-cerium and other pyrophoric alloys	tonnes	7	6	2	6	14
Salt	tonnes	2 476 738	2 319 273	1 867 023	2 654 736	3 477 233
Sillimanite minerals						
Sillimanite minerals	tonnes	89 557	56 555	27 232	47 738	48 748
Mullite	tonnes	20 404	23 113	12 279	47 775	72 049
Silver						
Ores and concentrates	kilograms	859 400	6 024 500	2 581 290	4 002 438	3 493 141
Metal	kilograms	2 565 300	2 668 900	1 784 960	2 322 566	2 434 577
Sulphur and pyrites						
Pyrites	tonnes	92 569	109 955	52 641	76 101	82 530
Sulphur	tonnes	51 785	53 602	38 246	44 103	51 714
Sulphur, sublimed and precipitated	tonnes	2 007	2 964	2 856	1 649	4 363
Talc	tonnes	347 230	338 606	293 417	324 703	330 321
Tantalum and niobium						
Tantalum	tonnes	125	188	67	231	376
Tin						
Unwrought	tonnes	23 917	22 160	14 193	18 684	21 396
Unwrought alloys	tonnes	409	179	175	316	112
Scrap	tonnes	1 689	2 243	674	714	1 578
Titanium						
Ilmenite	tonnes	425 175	446 154	304 471	...	...
Other titanium minerals	tonnes	200 512	279 407	212 735	(d) 838 768	(d) 794 043
Metal	tonnes	19 385	19 449	11 649	12 919	20 233
Oxides	tonnes	299 599	281 009	240 120	309 500	329 073
Titanium slag	tonnes	112 474	76 107	42 042	164	2 499
Tungsten						
Ores and concentrates	tonnes	604	967	821	1 029	843
Metal	tonnes	4 791	5 184	3 313	7 168	8 094
Carbide	tonnes	2 678	2 526	1 333	2 544	3 105
Vanadium						
Ores and concentrates	tonnes	79	60	...	...	...
Pentoxide	tonnes	1 071	879	(c)* 400	(c)* 1 000	(c) 700

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Zinc						
Ores and concentrates	tonnes	357 692	383 789	271 554	285 331	344 106
Unwrought	tonnes	316 603	305 075	285 965	380 807	398 086
Unwrought alloys	tonnes	87 785	89 738	36 350	57 563	69 972
Scrap	tonnes	19 586	17 395	16 782	23 694	25 853
Zirconium						
Concentrates	tonnes	(c)* 336 100	(c)* 294 000	(c)* 141 200	(c)* 204 800	...
Metal	tonnes	880	791	664	798	676

Notes

- (a) Including burnt pyrites
- (b) Including manganiferous Iron ore
- (c) BGS estimates, based on known exports into certain countries
- (d) Includes Ilmenite

Greece

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel and crushed rock	tonnes	* 90 000 000	* 85 000 000	* 65 000 000	* 42 250 000	* 27 462 500
Bauxite	tonnes	2 125 900	2 174 000	1 935 000	1 902 000	2 324 000
Alumina	tonnes (Al ₂ O ₃ content)	512 785	524 875	517 400	510 250	526 305
Primary aluminium	tonnes	167 937	162 339	134 737	137 000	165 150
Bentonite	tonnes	1 342 000	1 580 000	1 500 000	844 804	1 250 000
Cement						
Cement, clinker	tonnes	12 035 077	11 361 397	8 649 322	7 875 996	9 041 421
Cement, finished	tonnes	14 559 293	14 013 312	11 160 205	9 319 207	8 285 371
Coal						
Lignite	tonnes	66 100 000	64 521 000	61 800 000	53 600 000	58 400 000
Feldspar	tonnes	95 000	62 000	55 737	23 050	10 200
Gypsum (a)	tonnes	836 967	1 000 000	730 000	* 600 000	587 000
Crude steel	tonnes	2 554 000	2 477 000	2 000 000	1 821 000	1 934 000
Ferro-alloys						
Ferro-nickel	tonnes	93 300	83 200	42 400	69 600	94 000
Kaolin	tonnes	30 000	4 360	—	3 493	2 056
Lead, mine	tonnes (metal content)	13 400	14 000	10 000	12 200	13 400
Lead, refined	tonnes	* 11 000	* 11 000	* 11 000	* 11 000	* 11 000
Magnesite	tonnes	351 414	361 165	380 834	396 497	393 880
Nickel, smelter/refinery	tonnes	18 668	16 640	8 269	13 960	18 530
Nickel, mine	tonnes (metal content)	21 200	18 600	9 600	16 100	21 700
Perlite	tonnes	1 100 000	1 000 000	862 935	760 000	720 000
Crude petroleum	tonnes	80 000	66 000	87 000	86 000	87 126
Natural gas	million m ³	21	14	11	* 10	* 10
Salt	tonnes	212 000	* 220 000	* 189 000	* 190 000	* 190 000
Silver, mine	kilograms (metal content)	38 300	33 500	27 500	29 000	* 29 000
Talc	tonnes	200	* 200	* 200	* 200	* 200
Zinc, mine	tonnes (metal content)	20 700	24 200	17 800	18 400	21 200

Notes

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

(a) Including anhydrite

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Aluminium and bauxite	tonnes	49 781	50 453	59 216	60 851	76 495
Bauxite	tonnes	1 086 405	787 160	409 508	436 513	519 999
Alumina	tonnes	715 003	412 385	412 888	224 607	202 986
Alumina hydrate	tonnes	21 716	29 552	74 996	99 574	102 136
Unwrought	tonnes	27 195	26 083	17 533	20 727	19 668
Unwrought alloys	tonnes	67 732	64 998	57 668	68 924	103 326
Scrap	tonnes	13 566	13 261	14 681	32 250	27 738
Antimony						
Metal	tonnes	143	81	—	...	44
Bentonite	tonnes	168	8 885	5 116	13 203	33 306
Cement						
Cement clinkers	tonnes	848 925	722 151	851 946	722 142	459 716
Portland cement	tonnes	2 685 623	2 842 584	3 051 954	3 122 615	1 548 482
Other cement	tonnes	207 665	205 640	297 036	47 435	155 000
Coal						
Anthracite	tonnes	4 802	3 223	3 274	2 073	2 175
Other coal	tonnes	20 915	5 203	1 525	1 499	6 478
Lignite	tonnes	—	—	—	—	10 242

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Scrap	tonnes	14 669	12 314	15 742	21 994	18 672
Unwrought, refined	tonnes	1 944	356	2 748	825	4 456
Unwrought alloys	tonnes	995	1 198	1 071	2 097	4 346
Diamond						
Unsorted	Carats	£23 000	£29 000	£206 000	£43 000	£99 000
Gem	Carats	£281 000	£501 000	£1 356 000	£1 956 000	£405 000
Industrial	Carats	£44 000	£105 000	£31 000	£49 000	£20 000
Feldspar	tonnes	6 052	5 806	718	1 119	1 562
Gold						
Metal	kilograms	997	495	581	48	2 455
Gypsum						
Crude	tonnes	47 694	21 258	49 037	38 459	95 699
Calcined	tonnes	1 842	937	580	337	621
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	340	3 671	377	999	294
Ingots, blooms, billets	tonnes	121 989	162 819	102 721	143 318	139 537
Scrap	tonnes	34 584	36 018	34 840	66 989	59 592
Lead						
Unwrought	tonnes	9 913	5 792	2 360	5 209	3 068
Scrap	tonnes	769	1 390	913	1 945	735
Magnesite and magnesia						
Magnesia	tonnes	132 083	126 496	84 399	108 020	110 276
Nickel						
Ores and concentrates	tonnes	150	231	144 529	20 284	120
Potash						
Potassic fertilisers	tonnes	1 217	1 648	1 369	1 294	431
Salt	tonnes	37 232	48 908	47 406	59 655	65 014
Silver						
Metal	kilograms	8 300	7 400	79 400	19 700	13 900
Sulphur and pyrites						
Pyrites	tonnes	73 606	63 893	24 429	28 680	42
Sulphur	tonnes	52 668	16 345	4 044	4 594	35 279
Talc	tonnes	5 016	3 926	3 898	2 809	4 086
Titanium						
Oxides	tonnes	2 233	598	462	773	731
Zinc						
Ores and concentrates	tonnes	14 890	43 003	21 311	14 660	36 016
Unwrought (a)	tonnes	29 861	448	665	264	123

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	341 376	425 485	177 887	13 538	16 892
Aluminium and bauxite						
Bauxite	tonnes	376 304	226 374	351 677	314 423	288 647
Alumina	tonnes	283 255	38 828	963	1 546	1 346
Unwrought	tonnes	125 327	129 407	110 311	153 771	126 051
Unwrought alloys	tonnes	73 561	63 670	32 252	66 134	59 931
Scrap	tonnes	50 470	28 960	17 339	43 866	95 166
Antimony						
Metal	tonnes	21	63	85	74	84
Arsenic						
Metallic arsenic	tonnes	9	9	11	33	9
Barytes	tonnes	1 255	1 348	2 133	1 318	2 277
Bentonite	tonnes	19 780	21 261	8 593	3 668	7 193
Bismuth						
Metal	tonnes	11	3	—	—	12
Cadmium						
Metal	tonnes	1	18	39	1	0

Greece

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Cement						
Cement clinkers	tonnes	45 388	23 558	4 249	12 100	34 712
Portland cement	tonnes	3 603	74 239	136 300	206 164	159 514
Other cement	tonnes	3 010	2 618	2 359	15 136	22 371
Coal						
Anthracite	tonnes	59 007	41 475	37 585	48 783	117 406
Other coal	tonnes	382 933	371 479	168 663	512 663	169 990
Lignite	tonnes	3 029	35 457	58 053	87 707	165 417
Briquettes	tonnes	1 144	111	5 827	62	12 986
Cobalt						
Metal	tonnes	42	123	14	3	17
Copper						
Unwrought	tonnes	105 722	79 928	57 367	63 443	53 615
Scrap	tonnes	10 148	18 628	11 245	20 017	29 253
Unwrought alloys	tonnes	6 855	9 393	305	241	643
Diamond						
Unsorted	Carats	9 245 000	118 725 000	2 375 000	910 000	470 000
Gem, rough	Carats	205 000	425 000	3 365 000	920 000	...
Gem, cut	Carats	9 470 000	2 815 000	6 370 000	8 365 000	2 615 000
Industrial	Carats	11 355 000	22 810 000	43 195 000	43 750 000	36 800 000
Dust (a)	Carats	* 5 795 000	* 4 371 000	* 1 813 000	* 214 000	* 77 000
Diatomite	tonnes	958	790	482	668	623
Feldspar	tonnes	478	2 830	5 851	12 195	9 469
Fluorspar	tonnes	2 232	2 281	1 954	2 652	3 073
Gold						
Metal	kilograms	48 500	114 500	26 600	20 700	8 400
Graphite	tonnes	111	142	918	219	92
Gypsum						
Crude and calcined	tonnes	4 747	3 093	2 097	1 759	1 400
Iodine	kilograms	500	600	800	1 300	200
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 461	9 185	9 107	4 427	9 127
Sponge and powder	tonnes	6 741	7 709	9 685	5 772	3 302
Ferro-chrome	tonnes	1 016	1 146	916	693	1 217
Ferro-manganese	tonnes	2 654	1 753	1 216	837	271
Ferro-silico-manganese	tonnes	38 321	24 943	8 023	18 515	12 695
Ferro-silicon	tonnes	18 783	8 170	4 569	4 888	4 361
Other ferro-alloys	tonnes	546	504	170	849	167
Silicon metal	tonnes	1 383	2 312	906	1 426	1 746
Ingots, blooms, billets	tonnes	250 572	171 231	159 350	28 092	71 878
Scrap	tonnes	1 637 437	1 485 316	1 159 166	1 008 235	935 510
Kaolin	tonnes	40 298	62 415	49 509	31 132	14 336
Lead						
Unwrought	tonnes	11 792	6 875	10 644	11 149	16 980
Scrap	tonnes	2 071	2 800	1 753	1 692	2 136
Magnesite and magnesia						
Magnesite	tonnes	12 611	44 397	19 803	3 603	14 704
Magnesia	tonnes	20 682	7 328	1 729	2 198	7 506
Manganese						
Ores and concentrates	tonnes	—	51 425	31 776	22 888	51 374
Mercury	kilograms	338	2 628	668	211	1 200
Mica	tonnes	123	218	317	169	175
Molybdenum						
Metal	tonnes	34	60	58	45	50
Crude petroleum	tonnes	16 938 841	6 422 841	2 437 424	19 064 118	13 010 825
Natural gas	tonnes	3 789 666	4 186 746	3 086 243	3 520 510	4 233 660
Phosphate rock	tonnes	237 577	251 845	192 135	252 644	220 591
Platinum metals						
Platinum and platinum metals	kilograms	7 400	300	100	500	1 400
Potash						
Sulphate	tonnes	37 785	36 642	14 325	39 155	26 686
Chloride	tonnes	22 518	28 144	20 773	35 176	27 276
Other potassic fertilisers	tonnes	6 189	8 660	107	3 240	8 166
Rare earths						
Metals	tonnes	1	20	68	...	...
Ferro-cerium and other pyrophoric alloys	tonnes	22	0	0	65	62

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Salt	tonnes	177 719	134 557	149 094	144 367	173 050
Sillimanite minerals	tonnes	734	2 662	505	44	220
Silver						
Metal	kilograms	1 039 000	276 100	31 300	29 900	55 100
Sulphur and pyrites						
Pyrites	tonnes	94 621	40 754	3	1	0
Sulphur	tonnes	35 625	42 733	26 673	42 673	80 976
Talc	tonnes	8 550	12 372	7 862	8 869	8 663
Tin						
Unwrought (b)	tonnes	323	265	80	160	211
Titanium						
Titanium minerals	tonnes	826	399	351	504	396
Metal	tonnes	30	14	11	74	74
Oxides	tonnes	27 284	23 260	19 289	19 003	19 447
Vanadium						
Ores and concentrates	tonnes	...	...	80	...	...
Zinc						
Unwrought (b)	tonnes	58 708	28 996	25 422	22 534	11 358
Zirconium						
Concentrates	tonnes	547	429	122	93	61

Notes

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

(b) Including alloys

Hungary

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	34 815 891	36 647 400	35 591 131	35 400 000	24 971 140
Crushed rock	tonnes	13 046 962	17 030 760	15 808 088	15 800 000	11 000 000
Bauxite	tonnes	546 310	511 337	317 000	365 000	277 800
Alumina	tonnes (Al ₂ O ₃ content)	* 301 000	* 299 000	* 185 000	* 214 000	* 250 000
Bentonite	tonnes	54 231	6 220	5 298	17 200	17 308
Cement						
Cement, clinker	tonnes	2 500 698	* 2 500 000	* 2 400 000	* 2 400 000	1 167 942
Cement, finished	tonnes	3 551 746	3 544 000	* 3 200 000	* 2 560 000	* 2 500 000
Coal						
Lignite	tonnes	8 351 563	8 041 168	8 026 587	8 203 000	8 800 783
Brown coal	tonnes	1 450 400	1 386 140	952 000	911 000	757 900
Diatomite	tonnes	1 424	—	1 277	1 200	1 312
Gypsum (a)	tonnes	26 000	15 940	19 766	20 000	3 000
Pig iron	tonnes	1 393 655	1 288 758	1 050 000	1 325 000	1 315 000
Crude steel	tonnes	2 227 000	2 097 000	1 403 000	1 678 000	1 733 000
Kaolin	tonnes	2 136	—	—	—	—
Manganese ore	tonnes	51 000	49 579	43 000	55 000	58 000
Perlite	tonnes	67 542	132 000	82 058	70 990	70 108
Crude petroleum	tonnes	838 672	811 000	796 000	790 000	696 453
Natural gas	million m ³	2 653	2 703	2 748	2 600	2 315

Notes

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

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

(a) Including anhydrite

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 889 989	1 382 695	1 294 700	1 191 521	1 137 425
Aluminium and bauxite						
Alumina	tonnes	178 984	168 347	89 857	112 819	107 937
Alumina hydrate	tonnes	98 187	102 652	88 515	92 011	71 834
Unwrought (a)	tonnes	27 580	10 981	26 176	41 719	38 819
Scrap	tonnes	29 228	22 098	35 060	51 508	66 599
Bentonite	tonnes	849	1 191	555	954	782
Cement						
Cement clinkers	tonnes	—	—	1 701	296	25
Portland cement	tonnes	177 191	329 647	220 069	185 279	277 497
Other cement	tonnes	4 448	25 169	2 987	795	6 451
Coal						
Anthracite	tonnes	...	402	...	9 151	5 077
Lignite	tonnes	—	89 444	41 329	3 390	4 886
Copper						
Scrap	tonnes	23 394	20 958	19 120	15 319	31 459
Unwrought alloys	tonnes	...	989	314	571	1 120
Gold						
Metal	kilograms	871	657	1 312	1 827	2 214
Waste and scrap	kilograms	...	...	...	2 221 600	2 665 300
Gypsum						
Crude and calcined	tonnes	8 626	19 259	22 019	17 367	44 845
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	829	47	...	104	207
Ingots, blooms, billets	tonnes	36 548	90 282	4 315	9 274	44 796
Scrap	tonnes	567 923	691 805	636 805	1 132 142	1 272 473
Kaolin	tonnes	3 762	3 110	2 847	2 436	3 272

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Lead						
Scrap	tonnes	2 369	4 052	4 001	1 898	2 428
Mercury	kilograms	...	...	...	6 400	10 700
Nickel						
Scrap	tonnes	40	81	203	170	126
Natural gas	tonnes	127 853	—	323 537	—	—
Platinum metals						
Waste and scrap	kilograms	89 200	...	...	92 300	91 200
Potash						
Potassic fertilisers	tonnes	3 474	7 891	9 916	5 697	5 805
Salt	tonnes	1 459	1 388	3 434	1 356	39 405
Sillimanite minerals	tonnes					
Mullite	tonnes	(b) * 7 600	(b) * 7 200	(b) * 4 300	7 506	8 180
Silver						
Metal	kilograms	527	139	1 300	3 300	29 200
Sulphur and pyrites						
Sulphur	tonnes	43 178	43 649	39 638	44 098	48 616
Tin						
Unwrought (a)	tonnes	51	140	82	44	43
Scrap	tonnes	141	246	222	196	222
Titanium						
Oxides	tonnes	991	1 402	1 120	1 942	1 484
Zinc						
Scrap	tonnes	3 716	1 902	2 978	2 821	2 314

Notes

(a) Including alloys

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	455 416	806 281	446 187	473 730	369 445
Aluminium and bauxite						
Bauxite	tonnes	319 681	297 832	178 031	244 095	254 039
Alumina	tonnes	2 899	8 997	9 246	22 660	36 305
Alumina hydrate	tonnes	451	508	3 352	6 856	9 123
Unwrought	tonnes	132 695	122 319	100 897	146 221	135 392
Unwrought alloys	tonnes	149 299	107 123	79 437	165 833	190 175
Scrap	tonnes	37 204	56 347	30 212	43 720	59 661
Antimony						
Oxide	tonnes	192	144	173	156	148
Barytes	tonnes	1 456	492	4 536	1 441	2 852
Bentonite	tonnes	2 933	3 095	3 608	4 360	4 648
Bismuth						
Metal	tonnes	3	13	84	106	50
Bromine	kilograms	(d) 29 143	9 900	10 500	4 500	8 800
Cement						
Cement clinkers	tonnes	40 099	...	117 232	69 469	67 770
Portland cement	tonnes	560 863	643 776	565 552	495 045	785 166
Other cement	tonnes	144 824	55 798	49 051	34 191	33 802
Coal						
Hard coal	tonnes	1 950 139	1 893 076	(c) 1 340 769	(c) 1 744 778	(c) 1 570 645
Lignite	tonnes	572 742	767 480	413 094	297 335	318 792
Briquettes	tonnes	13 589	16 093	17 519	14 352	11 018
Copper						
Unwrought	tonnes	2 492	3 016	2 168	3 637	4 819
Scrap	tonnes	1 405	5 933	10 091	4 038	5 416
Diamond						
Gem, cut	Carats	£ 52 000	£ 220 000	£ 167 000	£ 280 000	£ 657 000
Industrial	Carats	(a)£* 290 200	(a)£* 293 900	£ 171 457	£ 168 340	£ 674 606
Dust (a)	Carats	* 3 214 500	* 4 550 300	* 5 832 400	* 9 411 700	* 12 763 300
Diatomite	tonnes	2 111	1 110	796	957	1 189

Hungary

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Feldspar	tonnes	13 567	10 418	14 499	14 235	14 211
Fluorspar	tonnes	7 460	4 512	(a)* 1 500	2 662	4 152
Graphite	tonnes	178	147	126	113	71
Gypsum						
Crude	tonnes	5 424	6 713	3 248	5 362	5 198
Calcined	tonnes	60 615	49 220	43 128	12 413	18 039
Iodine	kilograms	4 400	7 900	2 100	2 700	6 100
Iron ore	tonnes	968 033	616 684	876 109	1 985 510	1 780 865
Iron, steel and ferro-alloys						
Pig iron	tonnes	13 285	12 951	3 403	7 158	5 662
Sponge and powder	tonnes	3 116	1 043	425	756	638
Ferro-silico-magnesium	tonnes	1 132	12 753	15 503	554	269
Ferro-manganese	tonnes	4 311	4 318	2 037	12 015	16 011
Ferro-silico-manganese	tonnes	4 168	4 661	922	724	1 785
Ferro-silicon	tonnes	5 907	5 232	3 100	3 630	3 999
Other ferro-alloys	tonnes	403	640	277	460	572
Silicon metal	tonnes	2 982	2 184	2 589	4 010	7 832
Ingots, blooms, billets	tonnes	29 820	273 585	104 855	30 505	240 299
Scrap	tonnes	87 369	146 494	34 357	56 974	68 566
Kaolin	tonnes	25 168	29 089	25 094	24 175	29 736
Lead						
Unwrought	tonnes	5 802	2 711	2 663	6 138	9 497
Magnesite and magnesia						
Magnesite	tonnes	442	1 751	1 081	1 331	1 499
Magnesia	tonnes	9 318	7 892	1 563	6 783	4 369
Manganese						
Ores and concentrates	tonnes	254	293	220	198	159
Metal	tonnes	332	1 185	280	336	461
Mercury	kilograms	3 300	4 293	4 800	5 000	8 400
Molybdenum						
Metal	tonnes	112	102	69	70	60
Crude petroleum	tonnes	6 064 641	(a)* 6 959 000	(a)* 6 241 000	5 310 899	5 935 772
Natural gas	tonnes	7 366 053	8 574 143	6 238 749	5 858 735	5 788 348
Nickel						
Unwrought (b)	tonnes	116	69	219	346	35
Phosphate rock	tonnes	2	41	37	45	1 028
Platinum metals						
Platinum and platinum metals	kilograms	126	453	26	1 300	84
Potash						
Chloride	tonnes	168 692	181 373	38 441	90 063	98 351
Other potassic fertilisers	tonnes	5 863	4 552	4 372	5 760	6 161
Rare earths						
Cerium compounds	tonnes	136	55	36	38	33
Other rare earth compounds	tonnes	106	62	26	31	23
Salt	tonnes	514 119	510 287	535 928	704 143	800 950
Sillimanite minerals						
Sillimanite minerals	tonnes	3 428	2 812	1 892	2 100	2 903
Mullite	tonnes	—	1 192	649	1 348	1 854
Silver						
Metal	kilograms	14 581	8 354	128 985	196 500	234 100
Sulphur and pyrites						
Sulphur	tonnes	(a)* 1 200	2 105	(a)* 1 200	3 189	1 100
Sulphur, sublimed and precipitated	tonnes	174	586	186	119	223
Talc	tonnes	9 224	8 875	7 566	6 786	6 226
Tantalum and niobium						
Tantalum	tonnes	0	...	0	32	0
Tin						
Unwrought (a)	tonnes	328	320	208	231	156
Titanium						
Titanium minerals	tonnes	(b)* 1 400	2 659	(b)* 1 200	2 677	2 410
Metal	tonnes	138	31	216	84	134
Oxides	tonnes	8 291	8 590	6 853	8 927	8 885
Tungsten						
Metal	tonnes	41	54	31	54	67
Zinc						
Unwrought (a)	tonnes	16 843	17 011	9 862	11 767	12 818

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Zirconium Concentrates	tonnes	2 427	2 439	1 265	2 455	1 765

Notes

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

Iceland

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aluminium	tonnes	446 297	761 204	804 605	825 803	780 853
Ferro-Alloys						
Ferro-silicon	tonnes	114 886	107 882	112 992	114 230	120 076

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	35 965	41 024	29 712	44 512	85 854
Aluminium and bauxite						
Unwrought	tonnes	446 297	760 764	805 450	812 981	765 999
Scrap	tonnes	3 872	12 483	4 467	10 136	6 397
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	117 230	105 868	112 993	114 231	120 076
Other ferro-alloys	tonnes	6	1 729	4 595	5 603	6
Silicon metal	tonnes	15	—	200	—	—
Scrap	tonnes	68 014	60 287	38 075	37 328	38 954
Salt	tonnes	5 934	3 718	2 115	1 093	1 402

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	47 334	30 405	4 846	6 492	7 524
Aluminium and bauxite						
Alumina	tonnes	814 258	1 620 531	1 557 309	1 612 188	1 539 080
Unwrought (a)	tonnes	293	439	1 461	6 127	5 560
Bentonite	tonnes	5 022	2 392	1 259	432	563
Cement						
Cement clinkers	tonnes	17 978	628	30	42	49
Portland cement	tonnes	166 488	111 918	38 640	24 481	26 714
Other cement	tonnes	868	505	241	4 405	226
Coal						
Anthracite	tonnes	107 686	91 576	104 094	101 220	103 822
Other coal	tonnes	31 882	6 609	9 903	3 521	6 701
Diamond						
Gem, cut	Carats	* 500 000	* 200 000	* 100 000	110 592	90 000
Graphite	tonnes	—	11	2 132	18	18
Gypsum						
Crude	tonnes	13 279	10 533	4 724	2 579	892
Calcined	tonnes	1 409	1 606	642	192	181
Iodine	kilograms	12 001	12 029	9	9	24
Iron ore	tonnes	43 452	(b) 44 167	34 404	36 318	42 846
Iron, steel and ferro-alloys						
Pig iron	tonnes	502	1 128	1 333	1 148	841
Ferro-alloys	tonnes	63	113	5 641	6 838	204
Silicon metal	tonnes	466	1 614	237	4 366	3 204
Ingots, blooms, billets	tonnes	4 352	1 361	1 528	633	965
Scrap	tonnes	—	1 164	643	11 545	4 680
Platinum metals						
Platinum and platinum metals	kilograms	960	162	158	117	216
Rare earths						
Metals	tonnes	—	85	87	350	77

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Salt	tonnes	100 169	113 142	98 207	65 342	94 177
Silver Metal	kilograms	1 388	858	1 096	909	700
Titanium Metal	tonnes	—	34	99	100	59

Notes

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

Ireland, Republic of

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	* 40 000 000	* 25 000 000	* 15 000 000	10 000 000	7 000 000
Crushed rock	tonnes	* 90 000 000	* 60 000 000	* 50 000 000	40 000 000	25 000 000
Alumina	tonnes (Al ₂ O ₃ content)	1 800 000	1 890 000	1 240 000	1 864 000	1 922 000
Cement						
Cement, finished	tonnes	* 4 700 000	* 3 910 000	* 2 720 000	* 2 290 000	* 1 700 000
Gypsum	tonnes	* 700 000	* 600 000	* 400 000	* 300 000	* 300 000
Lead, mine	tonnes (metal content)	56 800	50 200	49 500	39 100	50 700
Lead, refined	tonnes	22 500	20 000	19 000	19 000	18 000
Natural gas (a)	million m ³	519	506	414	402	361
Silver, mine	kilograms (metal content)	9 650	7 172	5 267	3 818	6 109
Zinc, mine	tonnes (metal content)	400 900	398 200	385 700	342 500	344 000

Note

(a) Sales

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	85 146	255 295	40 626	13 318	16 005
Aluminium and bauxite						
Bauxite	tonnes	11 167	1 438	2 619	1	—
Alumina	tonnes	1 652 967	1 709 302	895 034	1 542 563	1 794 148
Alumina hydrate	tonnes	10 011	88 039	95 548	124 803	103 631
Unwrought alloys	tonnes	5 425	3 711	2 455	2 576	3 109
Scrap	tonnes	22 397	21 041	18 257	22 810	29 261
Cement						
Cement clinkers	tonnes	16 033	—	4 823	1	—
Portland cement	tonnes	1 120 808	1 144 186	1 054 533	1 025 910	942 940
Other cement	tonnes	1 596	1 512	1 317	8 787	1 158
Coal						
Anthracite	tonnes	30 451	...	2	—	6
Other coal	tonnes	4 395	6 158	3 861	5 820	2 851
Briquettes	tonnes	...	6 508	9 858	12 695	11 333
Cobalt						
Ore	tonnes	113	144	84	184	68
Oxides	tonnes	152	0	—	—	—
Metal	tonnes	45	47	145	234	125
Copper						
Scrap	tonnes	9 836	21 421	23 305	13 172	10 168
Diamond						
Industrial	Carats	24 845 000	4 872	204 108	58 658	2 801 447
Dust	Carats	...	...	25 308 022	65 757 012	419 763 462
Gold						
Waste and scrap	kilograms	7 365	5 578	11 155	10 480	9 268
Gypsum						
Crude	tonnes	1 058	1 094	10 425	23 355	5 390
Calcined	tonnes	37 914	32 821	28 491	15 129	21 274
Iodine	kilograms	1 944	1 536	1 982	—	2 589
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	419	924	547	262	9 240
Scrap	tonnes	478 562	485 387	428 416	484 871	609 985
Lead						
Ores and concentrates	tonnes	108 645	91 728	109 877	62 729	64 470
Scrap	tonnes	496	49	114	638	4 144
Magnesite and magnesia						
Magnesite	tonnes	5 487	5 006	9 133	3 383	18 665
Magnesia	tonnes	3 981	9 912	8 595	33 334	11 761

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Nickel						
Scrap	tonnes	556	236	220	557	269
Crude petroleum	tonnes	55 635	—	11	96	46 629
Natural gas	tonnes	5 447	—	383	3	—
Platinum metals						
Waste and scrap	kilograms	7 179	16 854	8 544	5 440	1 763
Rare earths						
Rare earth compounds	tonnes	8	9	7	1	1
Salt	tonnes	3 867	8 783	735	10 183	1 540
Silver						
Ores and concentrates	kilograms	2 560	—	—	...	—
Tin						
Unwrought	tonnes	(a) 1 094	(a) 34	(a) 23	(a) 689	—
Tungsten						
Metal	tonnes	180	10	—	59	42
Zinc						
Ores and concentrates	tonnes	412 703	404 303	594 268	588 143	660 259
Scrap	tonnes	3 044	649	312	299	300

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 729 337	1 368 008	781 470	652 594	695 162
Aluminium and bauxite						
Bauxite	tonnes	4 144 231	3 009 615	2 786 723	4 111 457	4 215 019
Alumina	tonnes	9 268	9 579	4 711	4 903	4 378
Arsenic						
Metallic arsenic	tonnes	137	95	...	—	...
Barytes	tonnes	586	229	169	176	221
Bentonite	tonnes	2 916	2 643	2 741	2 734	2 623
Bismuth						
Metal	tonnes	12	38	14	5	1
Cement						
Cement clinkers	tonnes	330 948	36 153	31 983	15 459	23 190
Portland cement	tonnes	664 977	780 528	192 556	133 977	100 440
Other cement	tonnes	16 409	14 649	10 698	4 974	4 112
Chromium						
Metal	tonnes	101	120	138	83	179
Coal						
Anthracite	tonnes	33 175	47 392	53 413	77 112	33 665
Other coal	tonnes	1 830 979	2 169 185	1 721 651	1 601 294	2 149 095
Briquettes	tonnes	14 271	19 049	40 482	31 507	30 673
Cobalt						
Ore	tonnes	571	36	28	10	5
Metal	tonnes	298	622	777	756	601
Copper						
Ores and concentrates	tonnes	21	30 176	42 945	2	2
Diamond						
Unsorted	Carats	42 460 000	17 535 000	4 935 000	3 600 000	1 615 000
Gem, rough	Carats	4 365 000	3 240 000	1 885 000	1 565 000	1 620 000
Gem, cut	Carats	46 100 000	28 020 000	18 170 000	11 385 000	6 745 000
Industrial	Carats	35 720 000	10 560 000	2 100 000	4 585 000	2 570 000
Dust	Carats	233 626 080	232 059 616	86 782 073	86 782 073	737 328 237
Diatomite	tonnes	859	1 458	1 243	640	699
Gold						
Metal	kilograms	£6 260 000	£5 271 000	£4 365 000	£4 047 000	£5 356 000
Gypsum						
Crude	tonnes	7 487	1 412	15 931	20 637	2 731
Calcined	tonnes	22 676	24 877	13 930	5 410	9 318
Iodine	kilograms	10 318	21 515	24 358	13 311	22 220

Ireland, Republic of

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron ore (b)	tonnes	4 594	13 478	18 151	592	150
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	557	997	955	989	1 176
Ferro-alloys	tonnes	464	370	737	385	361
Ingots, blooms, billets	tonnes	8 319	5 459	5 373	7 332	5 423
Scrap	tonnes	4 179	4 206	4 388	4 030	3 310
Kaolin	tonnes	19 322	18 766	3 155	4 039	3 414
Lead						
Unwrought	tonnes	35 675	23 480	15 784	14 357	15 345
Scrap	tonnes	25 828	17 702	16 689	12 074	12 305
Magnesite and magnesia						
Magnesite	tonnes	5 971	4 385	4 191	5 535	6 333
Magnesia	tonnes	48 088	42 999	22 523	39 638	49 122
Manganese						
Ores and concentrates (c)	tonnes	286	75	65	54	9 565
Mercury	kilograms	1 019	979	1 182	8 582	24
Mica	tonnes	508	291	43	77	24
Nickel						
Unwrought (a)	tonnes	97	1 118	626	1 503	1 748
Crude petroleum	tonnes	3 595 537	2 878 397	2 792 968	2 931 391	2 720 968
Natural gas	tonnes	3 838 104	4 364 595	4 192 236	4 738 918	4 430 360
Phosphate rock	tonnes	6 028	3 425	85	5 328	264
Platinum metals						
Platinum and platinum metals	kilograms	10 425	2 185	121 381	9 470	3 631
Potash						
Chloride	tonnes	122 191	97 056	29 932	99 181	95 816
Other potassic fertilisers	tonnes	1 785	4 347	3 390	7 570	2 011
Rare earths						
Rare earth compounds	tonnes	23	21	67	8	85
Salt	tonnes	89 236	105 636	114 659	172 053	308 884
Silver						
Metal	kilograms	1 045	29 530	5 316	3 999	17 103
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	887	305	74	17	0
Talc	tonnes	375	473	1 722	1 140	1 320
Tantalum and niobium						
Tantalum	tonnes	3	2	4	85	0
Tin						
Unwrought (a)	tonnes	249	389	100	157	117
Titanium						
Metal	tonnes	362	1 154	507	414	202
Oxides	tonnes	4 822	3 961	4 308	4 922	4 312
Tungsten						
Metal	tonnes	277	215	68	91	76
Carbide	tonnes	184	158	108	68	186
Zinc						
Ores and concentrates	tonnes	16	76 922	15	8	8
Unwrought (a)	tonnes	7 687	5 185	2 210	2 104	2 358
Scrap	tonnes	1	1 268	—	—	—
Zirconium						
Concentrates	tonnes	425	3 976	1 323	16 162	886

Notes

(a) Including alloys

(b) Including burnt pyrites

(c) Including manganiferous iron ore

Italy

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel (a)	tonnes	170 071 749	174 779 712	164 218 753	150 996 352	164 844 967
Crushed rock (a)	tonnes	97 463 072	91 373 378	84 717 579	80 336 696	76 793 269
Alumina	tonnes (Al ₂ O ₃ content)	1 100 000	1 045 000	92 000	—	—
Primary aluminium	tonnes	179 500	186 400	165 800	129 500	141 900
Barytes	tonnes	* 5 000	* 5 000	* 3 500	* 3 500	* 3 500
Bentonite	tonnes	305 905	161 313	114 682	110 982	102 756
Cement						
Cement, clinker (a)	tonnes	1 088 402	957 371	637 853	966 577	1 286 791
Cement, finished	tonnes	45 590 422	42 863 063	33 611 625	37 061 576	35 687 105
Copper, refined	tonnes	28 600	24 200	6 500	1 800	2 000
Feldspar	tonnes	3 524 389	4 727 000	* 4 700 000	* 4 700 000	* 4 700 000
Gypsum	tonnes	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Indium	tonnes	* 5	* 5	* 5	* 5	* 5
Pig iron	tonnes	11 100 000	10 400 000	5 670 000	8 555 000	9 824 000
Ferro-alloys						
Ferro-manganese	tonnes	* 30 000	* 30 000	* 20 000	* 25 000	* 25 000
Ferro-silico-manganese	tonnes	87 000	87 000	56 000	108 000	145 000
Crude steel	tonnes	31 506 000	30 590 000	19 848 000	25 750 000	28 735 000
Kaolin	tonnes	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Lead, mine	tonnes (metal content)	3 000	3 000	2 000	3 000	3 000
Lead, refined	tonnes	211 800	199 900	149 000	150 000	146 500
Perlite	tonnes	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Crude petroleum	tonnes	5 800 000	5 200 000	4 600 000	5 100 000	5 280 000
Natural gas	million m ³	9 700	9 300	7 900	7 600	8 340
Salt						
Rock salt and brine salt	tonnes	4 383 560	5 412 449	3 678 234	4 006 882	2 912 128
Talc	tonnes	117 643	* 110 000	* 110 000	* 110 000	* 110 000
Slab zinc	tonnes	102 100	107 100	103 400	104 700	110 200

Notes

(1) Italy is also believed to produce sulphur

(a) Sales

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 482 346	1 522 229	1 308 016	1 507 704	1 071 579
Aluminium and bauxite						
Bauxite	tonnes	49 989	26 718	4 585	66 218	46 330
Alumina	tonnes	696 603	571 090	61 223	17 056	16 821
Alumina hydrate	tonnes	34 521	35 538	1 243	4 346	7 023
Unwrought	tonnes	18 971	18 249	30 019	49 442	25 882
Unwrought alloys	tonnes	104 361	96 798	122 294	220 237	286 525
Scrap	tonnes	42 052	56 214	82 055	107 131	102 696
Antimony						
Ores and concentrates	tonnes	355	386	566	960	898
Metal	tonnes	1	12	2	19	80
Oxide	tonnes	237	569	391	226	261
Barytes	tonnes	2 239	1 238	2 890	1 906	2 623
Bentonite	tonnes	296 809	293 417	186 219	257 173	214 775
Bismuth						
Metal	tonnes	1	38	5	1	13
Bromine	kilograms	55 156	1 000	43	294	104
Cadmium						
Metal	tonnes	796	1 633	2 030	3 104	1 722
Cement						
Cement clinkers	tonnes	143 235	38 106	5 280	52 673	45 472
Portland cement	tonnes	2 143 940	2 094 130	1 637 605	2 035 118	1 681 397
Other cement	tonnes	536 324	491 150	469 636	393 746	250 624

Italy

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Chromium						
Ores and concentrates	tonnes	3 980	2 567	1 762	1 617	3 764
Metal	tonnes	1 666	166	29	5	1
Coal						
Anthracite	tonnes	29 275	13 456	15 474	12 817	17 611
Other coal	tonnes	12 576	18 563	14 733	1 485	571
Briquettes	tonnes	5 874	492	514	3 923	213
Cobalt						
Oxides	tonnes	223	235	141	206	224
Metal	tonnes	168	220	205	187	230
Copper						
Matte and cement	tonnes	2 244	911	90	61	1
Scrap	tonnes	120 231	148 923	158 062	167 424	174 068
Unwrought, unrefined	tonnes	10 903	6 426	2 752	7 290	8 502
Unwrought, refined	tonnes	11 521	6 955	13 186	8 648	13 506
Unwrought alloys	tonnes	20 830	15 268	12 787	15 553	20 024
Diamond						
Gem, cut	Carats	131 174	149 203	155 195	243 170	181 572
Dust	Carats	66 016 904	10 384 560	1 550 895	15 054 770	14 873 656
Diatomite	tonnes	3 884	9 991	10 392	6 716	2 226
Feldspar	tonnes	226 963	324 977	126 289	194 763	288 246
Fluorspar	tonnes	19 281	31 271	9 518	6 740	28 942
Gold						
Metal	kilograms	56 360	51 260	106 646	109 762	176 952
Waste and scrap	kilograms	160	1 376	173	154 845	1 006
Graphite	tonnes	401	308	820	798	512
Gypsum						
Crude	tonnes	17 748	24 525	17 907	12 035	9 614
Calcined	tonnes	27 123	24 496	21 848	18 484	39 465
Iodine	kilograms	2 613	2 119	86 917	24 722	20 112
Iron ore (a)	tonnes	8 570	1 699	354	8 779	6 742
Iron, steel and ferro-alloys						
Pig iron	tonnes	50 789	36 137	61 761	38 026	22 412
Sponge and powder	tonnes	1 097	615	452	729	1 534
Ferro-chrome	tonnes	5 411	4 593	2 066	5 020	5 639
Ferro-silico-magnesium	tonnes	2 061	1 681	673	733	783
Ferro-manganese	tonnes	14 562	12 890	7 457	9 186	9 761
Ferro-silico-manganese	tonnes	7 048	6 882	4 322	4 316	3 890
Ferro-molybdenum	tonnes	68	277	1 266	149	41
Ferro-nickel	tonnes	239	123	418	176	215
Ferro-silicon	tonnes	7 113	7 094	6 395	6 329	8 642
Other ferro-alloys	tonnes	457	1 559	2 013	163	195
Silicon metal	tonnes	4 576	6 007	3 200	3 284	4 293
Ingots, blooms, billets	tonnes	983 369	964 245	570 380	909 562	908 493
Scrap	tonnes	240 735	387 528	325 026	422 731	317 626
Kaolin	tonnes	16 265	13 627	21 392	36 208	27 994
Lead						
Unwrought	tonnes	8 008	34 904	23 006	7 821	15 455
Scrap	tonnes	7 661	6 897	7 594	9 776	10 173
Lithium						
Carbonate	tonnes	225	193	145	49	105
Magnesite and magnesia						
Magnesite	tonnes	3 878	2 337	1 945	2 535	3 236
Magnesia	tonnes	9 036	8 172	5 873	7 393	6 194
Manganese						
Metal	tonnes	309	494	326	716	963
Mercury	kilograms	125 946	84 247	89 228	202 273	68 623
Mica	tonnes	1 429	3 211	857	697	1 014
Molybdenum						
Ores and concentrates	tonnes	311	159	205	1 523	2 299
Metal	tonnes	221	873	488	911	443
Oxides	tonnes	185	604	982	443	286
Nickel						
Scrap	tonnes	724	658	541	3 537	627
Unwrought (b)	tonnes	1 272	972	1 293	2 408	2 097
Crude petroleum	tonnes	1 442 498	1 195 500	619 630	423 777	713 237
Natural gas	tonnes	585 818	1 749 247	1 620 776	1 427 161	159 619

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Phosphate rock	tonnes	7 800	7 661	6 416	10 751	16 139
Platinum metals						
Platinum	kilograms	11 783	13 350	10 043	10 408	9 982
Platinum metals	kilograms	5 828	8 295	8 898	12 684	14 436
Waste and scrap	kilograms	94 988	257	311	634	37 750
Potash						
Potassic fertilisers	tonnes	5 572	6 345	12 725	13 629	8 702
Rare earths						
Metals	tonnes	177	112	78	101	145
Rare earth compounds	tonnes	38	153	167	236	322
Salt	tonnes	212 223	322 221	558 441	919 673	1 017 938
Silver						
Metal	kilograms	547 042	519 148	383 782	715 501	995 384
Sulphur and pyrites						
Pyrites	tonnes	8 024	10 071	6 005	13 698	16 032
Sulphur	tonnes	263 362	219 095	256 614	286 954	285 891
Sulphur, sublimed and precipitated	tonnes	39 061	4 693	21 430	22 485	55 740
Talc	tonnes	131 071	114 017	124 212	143 236	135 418
Tin						
Unwrought (b)	tonnes	567	392	411	367	383
Scrap	tonnes	204	249	154	289	243
Titanium						
Metal	tonnes	4 884	5 478	3 607	3 248	4 789
Oxides	tonnes	26 242	25 982	23 508	27 450	26 181
Tungsten						
Metal	tonnes	455	973	670	925	1 091
Vanadium						
Ores and concentrates	tonnes	527	217	385	...	...
Zinc						
Ores and concentrates	tonnes	105 437	99 121	48 051	98 211	71 471
Unwrought	tonnes	21 048	7 967	5 258	11 071	16 570
Unwrought alloys	tonnes	6 689	2 857	3 491	6 377	9 385
Scrap	tonnes	13 574	8 603	12 334	16 427	13 006
Zirconium						
Concentrates	tonnes	25 596	41 296	33 219	41 784	44 252
Metal	tonnes	630	233	274	136	34

Notes

(a) Including burnt pyrites

(b) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	4 967 745	4 139 144	3 654 570	3 057 378	2 135 306
Aluminium and bauxite						
Bauxite	tonnes	2 374 609	2 417 499	36 975	62 666	45 146
Alumina	tonnes	148 384	144 473	88 864	252 028	406 774
Alumina hydrate	tonnes	166 453	143 217	142 005	198 253	205 274
Unwrought	tonnes	534 385	445 882	284 779	432 393	482 850
Unwrought alloys	tonnes	545 052	436 207	310 560	488 002	563 882
Scrap	tonnes	432 780	377 441	268 836	372 686	461 302
Antimony						
Ores and concentrates	tonnes	851	1 171	935	1 378	1 169
Metal	tonnes	399	300	198	233	298
Oxide	tonnes	5 950	6 168	4 602	5 460	4 227
Arsenic						
Metallic arsenic	tonnes	64	43	45	19	74
Barytes	tonnes	89 745	102 684	51 615	67 303	88 574
Bentonite	tonnes	155 568	136 417	96 698	130 508	140 458
Bismuth						
Metal	tonnes	316	269	152	355	378
Bromine	kilograms	374 426	598 800	958 588	1 259 187	1 207 042

Italy

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Cadmium						
Metal	tonnes	40	49	43	3	44
Cement						
Cement clinkers	tonnes	2 827 333	2 095 716	1 495 609	797 703	844 108
Portland cement	tonnes	1 162 254	962 746	1 433 820	1 298 080	1 119 225
Other cement	tonnes	287 190	295 988	308 222	139 459	125 066
Chromium						
Ores and concentrates	tonnes	46 433	36 552	23 842	22 012	31 861
Metal	tonnes	902	721	943	881	1 738
Coal						
Anthracite	tonnes	406 331	490 757	210 384	408 391	394 026
Other coal	tonnes	25 111 043	25 745 375	20 165 036	21 820 370	23 656 907
Briquettes	tonnes	6 921	5 392	7 786	6 233	3 857
Cobalt						
Metal	tonnes	626	703	632	477	758
Oxides	tonnes	1 682	561	473	707	719
Copper						
Scrap	tonnes	177 546	167 212	91 519	129 074	148 358
Unwrought, refined	tonnes	746 482	617 420	544 197	627 826	614 659
Unwrought alloys	tonnes	24 996	18 531	8 166	14 679	15 910
Diamond						
Unsorted	Carats	915 000	1 905 000	355 000	990 000	975 000
Gem, rough	Carats	80 000	10 000	25 000	60 000	115 000
Gem, cut	Carats	14 560 000	12 135 000	9 875 000	13 935 000	13 160 000
Industrial	Carats	880 000	1 145 000	675 000	1 545 000	1 615 000
Dust	Carats	161 010 000	252 290 000	121 055 000	196 860 000	248 520 000
Diatomite	tonnes	4 487	3 939	2 497	3 920	5 555
Feldspar	tonnes	2 573 637	2 511 704	1 570 345	1 951 827	1 954 499
Fluorspar	tonnes	236 797	238 008	212 415	200 184	246 374
Gold						
Metal	kilograms	206 914	166 506	146 721	149 022	175 415
Waste and scrap	kilograms	17 885	851	864	649	9 834
Graphite	tonnes	11 362	11 832	5 995	8 308	12 559
Gypsum						
Crude	tonnes	6 814	21 411	5 754	3 618	2 205
Calcined	tonnes	21 088	19 621	16 645	16 267	16 976
Iodine	kilograms	1 231 082	1 343 977	1 256 232	1 080 203	1 375 868
Iron ore	tonnes	17 013 076	16 313 184	8 159 741	12 092 237	15 134 122
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 235 376	2 238 037	895 818	1 018 615	1 288 014
Sponge and powder	tonnes	465 834	396 660	174 364	278 989	540 005
Ferro-chrome	tonnes	419 392	389 002	296 813	390 374	414 410
Ferro-silico-magnesium	tonnes	16 751	15 716	6 026	9 269	10 881
Ferro-manganese	tonnes	108 976	96 771	46 537	71 406	86 512
Ferro-silico-manganese	tonnes	229 755	186 135	119 670	158 540	176 855
Ferro-molybdenum	tonnes	7 433	8 318	3 998	6 141	8 541
Ferro-nickel	tonnes	91 651	104 198	78 383	98 168	116 806
Ferro-niobium	tonnes	2 783	2 733	1 395	2 751	2 521
Ferro-phosphorus	tonnes	721	488	550	631	414
Ferro-silicon	tonnes	154 797	122 236	89 909	137 031	160 561
Ferro-titanium and ferro-silico-titanium	tonnes	4 230	3 861	4 462	3 876	3 819
Ferro-tungsten and ferro-silico-tungsten	tonnes	385	578	300	247	252
Ferro-vanadium	tonnes	2 521	2 445	1 158	1 901	2 330
Other ferro-alloys	tonnes	1	243	—	97	841
Silicon metal	tonnes	57 854	57 493	27 402	48 392	53 131
Ingots, blooms, billets	tonnes	5 991 974	5 311 325	2 655 726	3 681 439	3 662 856
Scrap	tonnes	5 242 020	5 705 462	3 321 387	4 609 403	5 752 270
Kaolin	tonnes	881 968	810 560	505 593	823 461	707 622
Lead						
Ores and concentrates	tonnes	111 999	85 760	29 210	20	0
Unwrought	tonnes	114 471	99 015	86 054	111 301	109 458
Scrap	tonnes	7 107	2 972	2 031	2 609	4 976
Lithium						
Oxides	tonnes	160	246	96	175	148
Carbonate	tonnes	1 303	1 519	1 185	1 123	1 369

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Magnesite and magnesia						
Magnesite	tonnes	10 240	18 347	9 375	21 454	27 347
Magnesia	tonnes	131 140	150 098	93 262	143 725	133 451
Manganese						
Ores and concentrates (a)	tonnes	113 300	114 289	77 075	55 284	81 629
Metal	tonnes	7 100	5 839	3 709	5 788	5 759
Mercury	kilograms	9 491	21 754	19 992	10 510	15 246
Mica						
Unmanufactured	tonnes	189	106	417	136	209
Ground	tonnes	4 803	3 980	2 597	3 854	3 849
Molybdenum						
Ores and concentrates	tonnes	5 901	6 220	6 703	9 108	5 248
Metal	tonnes	215	254	171	136	219
Oxides	tonnes	183	125	176	276	199
Nickel						
Scrap	tonnes	1 372	892	763	1 063	656
Unwrought	tonnes	41 802	42 339	25 833	39 586	38 075
Unwrought alloys	tonnes	1 613	2 164	2 841	1 171	1 314
Crude petroleum	tonnes	89 130 022	82 998 642	76 301 866	76 729 305	72 173 373
Natural gas	tonnes	71 491 000	36 489 000	52 879 546	59 616 091	50 506 295
Phosphate rock	tonnes	249 847	248 005	89 245	231 808	243 718
Platinum metals						
Platinum	kilograms	20 491	16 570	13 627	12 545	10 630
Palladium	kilograms	18 880	20 593	13 047	10 019	9 171
Other Platinum metals	kilograms	1 811	2 426	1 909	1 694	1 084
Waste and scrap	kilograms	447	7 646	8 178	16 918	1 468
Potash						
Sulphate	tonnes	90 992	78 513	31 910	88 593	58 418
Chloride	tonnes	396 162	346 465	144 086	367 465	287 984
Other potassic fertilisers	tonnes	15 929	9 882	3 413	8 415	1 368
Rare earths						
Metals	tonnes	149	144	87	124	108
Cerium compounds	tonnes	694	710	414	597	616
Other rare earth compounds	tonnes	452	431	258	303	307
Ferro-cerium and other pyrophoric alloys	tonnes	2	2	5	10	3
Salt	tonnes	611 435	572 965	902 241	1 119 583	1 045 659
Sillimanite minerals						
Sillimanite minerals	tonnes	16 672	19 422	38 590	14 473	17 937
Mullite	tonnes	8 135	11 194	6 582	16 141	13 564
Silver						
Ores and concentrates	kilograms	1 002	—	15	70 440	31 391
Metal	kilograms	1 445 303	1 167 457	881 205	1 120 080	729 807
Sulphur and pyrites						
Pyrites	tonnes	14 879	20 984	228	13 538	29 746
Sulphur	tonnes	16 271	48 618	13 305	19 263	30 290
Sulphur, sublimed and precipitated	tonnes	414	2 711	3 617	758	732
Talc	tonnes	140 461	147 549	78 506	100 934	115 046
Tin						
Unwrought	tonnes	4 113	4 124	2 652	3 828	4 936
Unwrought alloys	tonnes	504	777	360	1 074	533
Scrap	tonnes	115	79	49	60	220
Titanium						
Titanium minerals	tonnes	136 274	102 909	74 338	98 978	111 842
Metal	tonnes	8 609	7 155	3 352	4 497	9 420
Oxides	tonnes	166 223	141 959	139 071	160 361	164 708
Tungsten						
Metal	tonnes	280	255	147	496	552
Carbide	tonnes	361	350	103	279	440
Vanadium						
Ores and concentrates	tonnes	...	255	18	...	...
Pentoxide	tonnes	150	173	45	53	45
Zinc						
Ores and concentrates	tonnes	195 798	161 838	155 028	184 192	153 982
Unwrought	tonnes	314 714	179 691	118 424	245 254	244 557
Unwrought alloys	tonnes	51 514	81 350	22 194	34 595	39 554
Scrap	tonnes	21 599	15 369	15 315	27 740	36 491

Italy

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Zirconium						
Concentrates	tonnes	114 838	129 999	53 845	98 214	81 360
Metal	tonnes	315	130	226	144	184

Note

(a) Including manganiferous iron ore

Latvia

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	9 998 863	8 905 937	6 520 363	5 890 950	7 600 317
Crushed rock	tonnes	937 030	1 413 395	818 390	1 375 197	2 050 976
Cement						
Cement, clinker	tonnes	...	...	...	1 158 000	1 277 000
Cement, finished	tonnes	* 300 000	* 310 000	* 650 000	* 1 100 000	* 1 100 000
Gypsum (a)	tonnes	346 000	349 000	175 870	176 510	216 000
Crude steel	tonnes	696 000	635 000	692 000	655 000	568 000

Note

(a) Including anhydrite

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	32 783	54 321	121 260	101 406	59 930
Aluminium and bauxite						
Unwrought alloys	tonnes	19 281	17 012	11 772	14 493	21 793
Scrap	tonnes	2 416	4 203	4 419	5 461	4 414
Cement						
Cement clinkers	tonnes	35 307	—	2 382	68 802	201 050
Portland cement	tonnes	43 951	240 311	147 960	562 435	673 260
Other cement	tonnes	10 178	20	126	76	250
Coal						
Hard coal (a)	tonnes	—	3 140	170	3 136	26 100
Briquettes	tonnes	21	79	74	3 262	6 402
Copper						
Unwrought	tonnes	3 272	4 117	2 518	726	1 650
Scrap	tonnes	7 309	6 900	6 138	7 106	13 679
Gypsum						
Crude and calcined	tonnes	74 627	63 732	37 352	38 596	47 016
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	...	...	204	4 051	9 502
Ferro-manganese	tonnes	...	1 343	402	794	1 132
Ferro-silico-manganese	tonnes	...	...	...	6 247	16 563
Ferro-silicon	tonnes	...	...	1	11 029	23 706
Ingots, blooms, billets	tonnes	4 371	4 010	2 323	2 442	5 045
Scrap	tonnes	245 958	388 456	213 766	396 794	563 192
Lead						
Scrap	tonnes	363	164	1 352	3 243	3 086
Nickel						
Scrap	tonnes	49	199	3 301	3 108	2 284
Unwrought alloys	tonnes	...	2	165	112	116
Crude petroleum	tonnes	—	...	93	524	42 208
Platinum metals						
Waste and scrap	kilograms	219	181	—	—	...
Potash						
Chloride	tonnes	250	970	0	39	28
Salt	tonnes	14 282	13 741	15 919	23 172	35 545
Tin						
Scrap	tonnes	...	3	...	175	8
Zinc						
Scrap	tonnes	757	443	975	587	459

Note

(a) Including anthracite

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 663 783	2 033 701	565 877	467 414	611 872
Aluminium and bauxite						
Scrap	tonnes	6 837	7 677	5 974	7 828	10 381
Bentonite	tonnes	1 850	2 628	2 148	2 787	3 434
Cement						
Cement clinkers	tonnes	29 438	30 233	34 375	158	6 551
Portland cement	tonnes	431 482	353 174	87 660	94 873	89 751
Coal						
Hard coal (a)	tonnes	153 806	169 211	136 277	181 348	198 165
Copper						
Unwrought	tonnes	1 396	3 609	3 049	712	2 153
Diatomite	tonnes	545	681	534	412	805
Fluorspar	tonnes	220	240	468	678	775
Gypsum						
Crude and calcined	tonnes	13 670	5 818	1 920	24 696	36 282
Iron ore	tonnes	46 109	44 607	2 393	1	(b) 7 422
Iron, steel and ferro-alloys						
Pig iron	tonnes	65 437	56 964	38 140	45 454	2 244
Sponge and powder	tonnes	131	19	14 931	4 460	565
Ferro-chrome (d)	tonnes	* 20	* 130	* 9 050	* 300	* 1 700
Ferro-manganese	tonnes	3 021	10 334	2 345	4 090	1 480
Ferro-silico-manganese	tonnes	14 947	23 477	14 722	18 898	17 085
Ferro-silicon	tonnes	3 086	18 466	15 085	24 660	25 992
Other ferro-alloys	tonnes	372	132	415	158	245
Silicon metal	tonnes	656	467	783	1 553	981
Ingots, blooms, billets	tonnes	158 649	146 505	226 967	206 428	402 711
Scrap	tonnes	294 904	412 240	214 564	443 817	366 039
Kaolin	tonnes	11 071	11 173	7 476	10 594	9 289
Magnesite and magnesia						
Magnesia	tonnes	4 678	5 355	2 827	5 524	2 735
Natural gas	tonnes	1 158 965	1 138 776	1 047 240	1 160 668	1 099 045
Phosphate rock	tonnes	1 529	477	62	99	197
Platinum metals						
Waste and scrap	kilograms	1 842	2 842	(d)* 3 900	(d)* 400	...
Potash						
Chloride	tonnes	8 875	10 845	—	6 414	3 468
Salt	tonnes	123 316	144 424	151 529	163 486	198 975
Silver						
Metal	kilograms	1 450	1 174	556	791	2 300
Sulphur and pyrites						
Sulphur	tonnes	8	9	12 488	24	21
Talc	tonnes	396	417	314	295	145
Titanium						
Oxides	tonnes	781	3 112	562	739	693
Zinc						
Unwrought (c)	tonnes	664	1 256	830	383	249

Notes

(a) Including anthracite

(b) Including burnt pyrites

(c) Including alloys

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

Lithuania

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	9 181 552	9 469 411	5 029 476	5 655 401	5 776 850
Crushed rock	tonnes	6 424 791	6 913 160	2 849 122	3 281 330	4 456 089
Cement						
Cement, clinker	tonnes	* —	—	233 292	—	—
Cement, finished	tonnes	1 105 365	1 075 581	583 067	834 000	996 284
Crude petroleum	tonnes	154 449	127 658	114 956	114 464	113 895
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	42 618	73 870	69 722	73 470	76 699

Notes

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

(a) From petroleum refining and/or natural gas

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 053 802	943 673	163 850	57 255	139 291
Aluminium and bauxite						
Unwrought alloys	tonnes	3 453	3 994	2 614	7 754	7 534
Scrap	tonnes	5 701	5 280	4 796	5 298	8 952
Bentonite	tonnes	5 457	1 929	266	442	1 628
Cement						
Cement clinkers	tonnes	560	130	39 878	14	98
Portland cement	tonnes	154 649	204 951	170 273	352 750	450 601
Other cement	tonnes	893	1 531	491	1 151	406
Chromium						
Ores and concentrates	tonnes	1 156	240	78	46	19
Coal						
Hard coal (a)	tonnes	4 599	7 685	10 915	33 109	28 271
Copper						
Unwrought	tonnes	196	135	610	591	4 873
Scrap	tonnes	4 814	4 675	3 375	4 128	5 724
Diatomite	tonnes	34	30	78	551	615
Gypsum						
Crude and calcined	tonnes	1 804	2 436	423	237	250
Iodine	kilograms	20	3	—	4	8 900
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	15 437	11 188	3 093	104	141
Scrap	tonnes	661 349	659 646	422 436	595 721	664 225
Lead						
Scrap	tonnes	11 776	9 730	4 210	5 941	5 335
Magnesite and magnesia						
Magnesia	tonnes	26	...	537	717	352
Nickel						
Scrap	tonnes	232	131	85	76	46
Crude petroleum	tonnes	155 416	128 838	113 172	110 597	80 025
Phosphate rock	tonnes	2 011	140	—	—	—
Platinum metals						
Waste and scrap	kilograms	404	62 710	101 900	193 600	126 800
Potash						
Potassic fertilisers	tonnes	5 752	2 846	18 714	6 517	4 256
Rare earths						
Cerium compounds	tonnes	4	3	8	12	10
Salt	tonnes	6 761	6 063	5 437	19 031	13 514
Silver						
Metal	kilograms	61	600	200	1 100	1 600
Sulphur and pyrites						
Sulphur	tonnes	7	1 517	14 038	1 227	403

Lithuania

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Tantalum and niobium						
Tantalum	tonnes	48	31	11	9	18
Titanium						
Oxides	tonnes	268	1 230	502	1 167	965
Vanadium						
Ores and concentrates	tonnes	346	358	...	...	...

Note

(a) Including anthracite

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 333 772	1 301 091	695 973	849 462	1 046 066
Aluminium and bauxite						
Bauxite	tonnes	1	...	6 922	4 348	...
Alumina	tonnes	13 304	10 282	1 815	16 411	26 876
Scrap	tonnes	3 380	1 887	888	2 460	6 014
Bentonite	tonnes	3 105	3 068	3 368	4 378	6 250
Cement						
Cement clinkers	tonnes	104 219	79 102	996	176 461	227 793
Portland cement	tonnes	170 955	111 578	133 039	122 178	144 824
Coal						
Hard coal (a)	tonnes	356 342	382 695	215 439	316 971	392 359
Copper						
Unwrought	tonnes	388	1 454	415	596	4 652
Diatomite	tonnes	1 178	763	836	744	1 174
Feldspar	tonnes	1 693	1 516	2 958	6 265	10 278
Gold						
Waste and scrap	kilograms	2	—	103	—	64 500
Gypsum						
Crude	tonnes	78 185	90 320	28 754	54 772	63 632
Calcined	tonnes	47 112	43 127	19 974	17 377	18 503
Iodine	kilograms	470	383	4 510	17 732	20 100
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 660	1 218	415	315	142
Ferro-chrome	tonnes	9 705	9 634	2 842	32	35
Ferro-silico-manganese	tonnes	5 983	...	2	...	...
Other ferro-alloys	tonnes	437	457	114	161	756
Ingots, blooms, billets	tonnes	6 011	9 661	1 229	4 270	5 384
Scrap	tonnes	64 661	64 462	29 805	35 270	71 858
Kaolin	tonnes	568	607	159	486	360
Lead						
Scrap	tonnes	368	162	3 301	4 459	5 755
Magnesite and magnesia						
Magnesia	tonnes	6 501	5 196	855	1 245	593
Molybdenum						
Metal	tonnes	11	6	7	65	37
Crude petroleum	tonnes	4 869 858	9 325 904	8 413 067	9 018 334	8 943 996
Natural gas	tonnes	2 414 798	2 246 642	1 761 529	2 048 906	2 385 268
Phosphate rock	tonnes	1 202 196	1 209 385	1 162 070	1 354 093	1 254 579
Platinum metals						
Waste and scrap	kilograms	65 900	40 800	22 700	76 400	64 600
Potash						
Sulphate	tonnes	15 637	10 971	2 617	2 581	7 069
Chloride	tonnes	138 895	107 749	6 631	32 552	35 602
Other potassic fertilisers	tonnes	...	487	...	...	...
Rare earths						
Rare earth compounds	tonnes	3	8	3	14	11
Salt	tonnes	171 915	166 505	159 534	209 506	246 724
Silver						
Metal	kilograms	5 200	6 900	5 800	6 300	7 800

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Sulphur and pyrites						
Sulphur	tonnes	317 678	293 365	319 353	326 485	298 977
Sulphur, sublimed and precipitated	tonnes	0	404	18	1	0
Talc	tonnes	511	388	225	270	190
Tantalum and niobium						
Tantalum	tonnes	47	38	24	12	13
Titanium						
Oxides	tonnes	1 328	980	1 259	1 947	2 081
Tungsten						
Metal	tonnes	38	1	—	1	156
Zinc						
Unwrought (b)	tonnes	627	563	190	460	1 049

Notes

(a) Including anthracite

(b) Including alloys

Luxembourg

Production

Commodity	Units	2007	2008	2009	2010	2011
Cement						
Cement, clinker	tonnes	817 000	761 800	706 426	736 000	770 232
Cement, finished	tonnes	908 000	907 500	929 820	1 030 700	1 232 633
Crude steel	tonnes	2 858 000	2 582 000	2 141 000	2 548 000	2 521 000

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	191 762	451 026	132 842	160 773	161 019
Aluminium and bauxite						
Unwrought alloys	tonnes	231 110	143 237	85 636	157 473	151 330
Scrap	tonnes	19 630	11 164	3 785	6 034	6 051
Cement						
Cement clinkers	tonnes	161 362	181 689	58 463	7 695	4 215
Portland cement	tonnes	78 252	109 447	119 660	341 075	424 306
Other cement	tonnes	31 475	264 233	137 975	219 688	320 980
Cobalt						
Metal	tonnes	3	7	3	1	305
Copper						
Scrap	tonnes	6 348	2 412	1 787	2 492	2 449
Unwrought alloys	tonnes	...	...	11	7	1
Diamond						
Dust	Carats	540 955	346 291 881	313 330	750 900	1 006 960
Gold						
Metal	kilograms	12 200	55 600	38 000	32 700	8 000
Gypsum						
Crude and calcined	tonnes	1 232	553	661	1 596	1 919
Iodine	kilograms	...	...	...	83 600	40 900
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	81 112	49 843	16 793	10 953	37 393
Scrap	tonnes	311 114	504 067	114 924	165 832	133 133
Kaolin	tonnes	160	268	414	22	6
Magnesite and magnesia						
Magnesite	tonnes	197	481	621	943	1 325
Platinum metals						
Platinum and platinum metals	kilograms	4 700	5 800	2 500	...	—
Waste and scrap	kilograms	...	...	24 700	5 600	16 000
Potash						
Chloride	tonnes	231	778	98	330	190
Salt	tonnes	74	219	220	1 072	589
Silver						
Metal	kilograms	200	100	—	—	600
Tungsten						
Metal	tonnes	5	0	2	203	47
Zinc						
Scrap	tonnes	1 807	315	423	1 134	739

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 850 515	1 370 991	1 757 604	2 097 069	2 211 572
Aluminium and bauxite						
Alumina	tonnes	2 851	2 225	1 403	1 117	1 490
Unwrought	tonnes	47 982	52 669	33 315	62 504	51 627
Unwrought alloys	tonnes	12 076	9 320	4 480	7 362	5 586
Scrap	tonnes	186 465	123 407	48 091	128 632	121 295
Asbestos						
Unmanufactured	tonnes	120	...	—	—	37
Barytes	tonnes	29 556	27 726	16 377	17 182	17 049
Cement						
Cement clinkers	tonnes	51 936	36 976	17 827	27 238	34 532
Portland cement	tonnes	32 068	33 617	56 666	34 642	42 548
Other cement	tonnes	23 525	22 879	16 255	12 119	14 934
Coal						
Anthracite	tonnes	42 128	34 471	16 525	24 834	16 256
Other coal	tonnes	59 201	81 616	83 454	76 133	73 322
Lignite	tonnes	5 992	7 119	7 093	7 090	7 710
Cobalt						
Metal	tonnes	212	243	11	163	811
Copper						
Scrap	tonnes	15 791	8 833	7 533	10 708	10 061
Diamond						
Unsorted	Carats	£113 000	£24 000	£47 000	£20 000	£248 000
Gem, cut	Carats	£255 000	£595 000	£446 000	£418 000	£533 000
Dust	Carats	£519 000	£691 000	£227 000	£609 000	£472 000
Diatomite	tonnes	159	1 492	7 054	7 858	7 394
Fluorspar	tonnes	1 278	1 343	618	983	887
Gold						
Metal	kilograms	10 200	37 400	10 000	12 300	13 300
Gypsum						
Crude	tonnes	849	51 416	57 828	50 104	69 918
Calcined	tonnes	31 700	25 257	15 793	10 715	18 459
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	3 275	5 478	1 132	910	1 317
Ferro-silico-manganese	tonnes	47 741	28 617	25 617	27 116	29 053
Ferro-niobium	tonnes	577	473	166	192	226
Ferro-silicon	tonnes	3 987	8 115	2 846	3 428	3 828
Other ferro-alloys	tonnes	841	1 309	582	906	1 179
Ingots, blooms, billets	tonnes	788 410	1 004 405	364 945	407 419	370 786
Scrap	tonnes	3 137 236	3 880 672	1 829 754	2 693 481	2 632 849
Kaolin	tonnes	9 013	10 951	6 316	904	563
Magnesite and magnesia	tonnes	1 373	1 663	2 202	2 612	2 375
Mica	tonnes	787	41	0	1	3
Natural gas	tonnes	1 797	221 375	92 122	3 591	3 077
Platinum metals						
Platinum and platinum metals	kilograms	9 322	1 410	1 702	1 633	0
Potash						
Potassic fertilisers	tonnes	940	2 048	801	1 681	1 167
Rare earths						
Rare earth compounds	tonnes	1	1	2	2	5
Ferro-cerium and other pyrophoric alloys	tonnes	—	—	—	11	0
Salt	tonnes	21 104	45 882	51 132	77 304	91 033
Silver						
Metal	kilograms	26 083	7 061	3 738	24 304	11 000
Sulphur and pyrites						
Sulphur	tonnes	3 139	5 771	2 981	2 166	1 789
Titanium						
Metal	tonnes	339	165	66	456	1 842
Oxides	tonnes	1 169	1 051	1 114	1 481	1 534
Tungsten						
Carbide	tonnes	1 110	983	465	7	2
Zinc						
Unwrought	tonnes	9 841	5 831	6 049	9 232	6 819
Unwrought alloys	tonnes	1 360	537	237	475	533

Macedonia

Production

Commodity	Units	2007	2008	2009	2010	2011
Bentonite	tonnes	22 509	13 689	9 033	7 084	8 914
Coal						
Lignite	tonnes	6 569 220	7 669 103	7 395 915	6 583 000	7 902 000
Copper, mine	tonnes (metal content)	7 029	8 051	7 440	7 900	7 600
Feldspar	tonnes	32 814	28 920	19 377	23 188	25 032
Gypsum	tonnes	255 500	242 400	154 550	143 118	162 984
Crude steel	tonnes	370 317	344 866	299 332	317 057	348 576
Ferro-alloys						
Ferro-nickel	tonnes	15 321	15 026	12 000	14 413	17 292
Ferro-silicon	tonnes	78 892	97 605	7 657	30 044	56 167
Lead, mine	tonnes (metal content)	36 039	49 877	46 788	41 293	37 295
Nickel, smelter/refinery	tonnes	15 300	15 000	12 000	14 400	17 292
Nickel, mined	tonnes (metal content)	15 000	15 000	12 000	14 200	25 600
Silver, mine	kilograms (metal content)	* 30 000	* 40 000	* 35 000	* 32 000	* 30 000
Talc	tonnes	1 775	977	682	1 292	547
Zinc, mine	tonnes (metal content)	30 957	38 737	38 648	32 900	28 100

Exports

Commodity	Units	2007	2008	2009	2010	2011
Aluminium and bauxite						
Scrap	tonnes	1 795	2 043	1 514	2 351	2 432
Bentonite	tonnes	4 181	5 201	3 716	3 310	3 730
Cement						
Cement clinkers	tonnes	90 869	173 089	5 638	...	0
Portland cement	tonnes	308 468	281 782	361 677	315 074	277 326
Chromium						
Ores and concentrates	tonnes	1 835	160	...	...	...
Copper						
Ores and concentrates (a)	tonnes	* 35 000	* 41 000	* 39 000	* 41 000	* 39 000
Scrap	tonnes	2 277	2 302	2 029	576	2 845
Feldspar	tonnes	28 766	23 762	18 457	21 924	25 111
Gypsum						
Crude and calcined	tonnes	10 167	12 496	12 604	30 273	32 328
Iron, steel and ferro-alloys						
Ferro-silico-manganese	tonnes	48 258	...	10 938	31 344	46 254
Ferro-nickel	tonnes	71 189	...	(a)* 91 800	67 384	77 107
Ferro-silicon	tonnes	30 139	(a)* 257 000	16 621	19 491	52 684
Scrap	tonnes	124 200	104 326	59 407	71 830	83 784
Lead						
Ores and concentrates	tonnes	47 209	...	60 702	55 482	48 959
Unwrought	tonnes	70	184	1 271	801	421
Scrap	tonnes	2 622	2 209	226	226	219
Nickel						
Ores and concentrates	tonnes	9 328	...	0	60 181	25 579
Phosphate rock	tonnes	2 050	1 685	1 233	1 056	651
Salt	tonnes	5 091	3 255	3 616	2 666	5 456
Talc	tonnes	1 124	509	528	636	648
Zinc						
Ores and concentrates	tonnes	58 973	...	69 509	60 369	51 545
Scrap	tonnes	874	576	479	739	313

Notes

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 331	1 163	894	974	1 180
Aluminium and bauxite						
Unwrought (a)	tonnes	3 930	3 446	2 164	2 839	2 642
Scrap	tonnes	663	485	1 341	1 554	1 842
Cement						
Cement clinkers	tonnes	1	...	13 541	1 191	8 932
Portland cement	tonnes	69 220	136 030	193 076	185 378	148 954
Other cement	tonnes	...	797	397	1 213	409
Chromium						
Ores and concentrates	tonnes	1 432	306	495	294	512
Coal						
Hard coal (b)	tonnes	199 946	214 078	85 660	160 162	189 549
Lignite	tonnes	1 532	...	340	23 409	42 052
Briquettes	tonnes	63 805	56 640	9 207	7 623	22 546
Fluorspar	tonnes	380	300	457	350	600
Graphite	tonnes	1 969	1 522	761	875	911
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 467	2 609	1 732	1 823	1 382
Ferro-alloys	tonnes	3 737	3 402	1 618	2 401	5 970
Ingots, blooms, billets	tonnes	501 134	482 294	157 566	145 509	97 889
Scrap	tonnes	310 410	255 543	7 375	292 049	318 612
Kaolin	tonnes	16 849	12 259	4 879	4 985	3 815
Magnesite and magnesia	tonnes	18 863	13 956	10 113	11 266	9 418
Manganese						
Ores and concentrates	tonnes	143 556	170 455	...	56 893	110 589
Crude petroleum	tonnes	1 063 614	1 057 671	992 672	...	685 090
Natural gas	tonnes	63 225	86 823	53 192	79 059	93 816
Nickel						
Ores and concentrates	tonnes	863 999	789 929	985 925	1 210 300	1 393 490
Salt	tonnes	35 657	37 575	39 232	42 011	39 986
Silver						
Metal	kilograms	3 612	3 807	2 229	3 294	3 779
Titanium						
Oxides	tonnes	383	426	427	504	502
Zinc						
Unwrought (a)	tonnes	6 721	4 954	4 147	5 213	4 920

Notes

(a) Including alloys

(b) Including anthracite

Malta

Exports

Commodity	Units	2007	2008	2009	2010	2011
Aluminium and bauxite						
Scrap	tonnes	1 136	1 441	1 361	1 865	1 788
Copper						
Scrap	tonnes	1 790	1 890	1 828	919	1 096
Gold						
Waste and scrap	kilograms	...	...	...	17 008	27 387
Iron, steel and ferro-alloys						
Scrap	tonnes	28 083	25 379	27 775	29 498	38 408
Tin						
Scrap	tonnes	340	250	* 1	* 3	4

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	29 929	25 817	47 363	37 324	28 813
Cement						
Portland cement	tonnes	356 365	374 392	328 411	285 182	258 304
Other cement	tonnes	2 949	1 498	1 552	13 002	6 676
Gold						
Metal	kilograms	9 034	6 820	5 500	8 200	3 400
Gypsum						
Crude and calcined	tonnes	6 309	5 505	2 305	10 446	11 428
Salt	tonnes	3 590	3 794	1 364	1 682	1 366
Silver						
Metal	kilograms	783	5 455	1 090	128	100
Titanium						
Oxides	tonnes	531	463	470	463	445

Montenegro

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	132 662	234 210	118 989	79 227	76 347
Crushed rock	tonnes	355 416	462 331	186 221	328 939	167 405
Bauxite	tonnes	667 053	671 811	45 779	61 205	158 614
Alumina	tonnes (Al ₂ O ₃ content)	240 186	220 426	58 528	—	—
Primary aluminium	tonnes	135 151	111 513	63 960	82 043	92 838
Coal						
Lignite	tonnes	1 195 515	1 740 076	957 164	1 937 847	1 972 671
Crude steel	tonnes	173 849	201 623	90 404	48 272	61 164
Salt						
Sea salt	tonnes	20 000	25 200	17 000	11 200	10 000

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	257 653	151 614	127 600	112 522	32 451
Aluminium and bauxite						
Bauxite	tonnes	101 182	101 182	17 122	85 623	127 268
Unwrought	tonnes	(a) 122 144	(a) 92 372	(a) 82 877	(a) 76 891	108 813
Scrap	tonnes	1 607	2 692	1 570	2 045	2 357
Bentonite	tonnes	3	1 384	24	48	27
Cement						
Portland cement	tonnes	...	...	...	...	2 372
Coal						
Lignite	tonnes	57 406	40 449	58 381	69 130	48 940
Copper						
Scrap	tonnes	1 480	1 356	1 029	1 769	2 356
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	18 136	32 159	15 423	18 775	6 866
Scrap	tonnes	12 380	10 229	14 442	28 570	55 204
Salt	tonnes	2 265	3 505	3 776	14 316	1 560

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	50 573	74 112	44 639	26 703	12 452
Aluminium and bauxite						
Alumina	tonnes	1 333	10	55 777	157 753	174 691
Asbestos						
Unmanufactured	tonnes	...	48	...	22	...
Cement						
Portland cement	tonnes	557 771	517 062	279 497	266 063	250 759
Other cement	tonnes	6 169	214 958	171 150	116 132	90 911
Coal						
Lignite	tonnes	7 285	12 792	6 734	—	62
Briquettes	tonnes	12 181	15 410	3 448	(a) 0	3
Diamond						
Dust	Carats	5 000	75 000	30 000	10 000	45 000

Montenegro

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Gypsum						
Crude and calcined	tonnes	1 969	1 747	3 356	653	730
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 040	17 864	13 954	322	1 150
Ferro-silico-manganese	tonnes	2 306	2 921	1 664	1 663	891
Ferro-silicon	tonnes	559	697	271	288	187
Other ferro-alloys	tonnes	629	422	127	297	566
Scrap	tonnes	138 421	138 502	54 801	19 950	27 396
Salt	tonnes	13 670	4 814	10 402	6 470	9 600

Note

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

Netherlands

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	69 437 000	67 622 000	47 000 000	40 000 000	* 40 000 000
Primary aluminium	tonnes	296 900	317 000	306 000	* 300 000	* 300 000
Cadmium	tonnes	495	530	* 490	* 560	* 560
Cement						
Cement, finished	tonnes	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000
Indium	tonnes	* 5	5	* 5	* 5	* 5
Pig iron	tonnes	6 412 000	6 130 000	4 655 000	5 799 000	5 943 000
Crude steel	tonnes	7 368 000	6 853 000	5 193 000	6 651 000	6 937 000
Lead, refined	tonnes	* 16 000	* 16 000	* 17 000	16 000	16 000
Magnesite (a)	tonnes	* 245 000	316 264	183 256	236 053	274 877
Crude petroleum	tonnes	2 576 222	2 163 000	1 704 000	1 414 000	1 464 000
Natural gas	million m ³	72 431	79 325	74 659	83 944	76 431
Salt	tonnes	6 177 000	6 200 000	5 967 000	5 982 000	6 866 000
Slab zinc	tonnes	234 000	250 000	224 000	264 000	261 000

Notes

(1) Netherlands is also believed to produce sulphur

(a) Chloride produced from solution mining

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	9 185 884	9 339 355	7 140 000	9 311 275	15 472 833
Aluminium and bauxite						
Bauxite	tonnes	41 170	129 186	* 59 000	26 997	12 739
Alumina	tonnes	542 794	257 169	62 131	8 665	43 695
Alumina hydrate	tonnes	151 641	85 713	65 279	76 244	89 612
Unwrought	tonnes	490 373	332 871	218 141	424 733	390 062
Unwrought alloys	tonnes	341 670	361 012	191 239	320 263	246 826
Scrap	tonnes	317 877	264 142	200 650	317 038	322 834
Antimony						
Metal	tonnes	308	185	171	219	385
Oxide	tonnes	496	346	285	433	264
Arsenic						
Metallic arsenic	tonnes	59	67	* 30	11	62
Barytes	tonnes	68 798	58 740	121 567	79 880	71 719
Bentonite	tonnes	129 692	120 946	135 722	178 093	186 574
Bismuth						
Metal	tonnes	238	196	28	34	32
Bromine	kilograms	1 475 500	1 821 400	1 960 700	1 477 700	1 154 400
Cadmium						
Metal	tonnes	544	816	305	606	617
Cement						
Cement clinkers	tonnes	10 725	0	352	34	3 911
Portland cement	tonnes	278 904	298 133	194 392	201 065	310 479
Other cement	tonnes	12 931	6 217	11 447	57 922	150 175
Chromium						
Ores and concentrates	tonnes	78 433	117 639	32 485	74 483	126 012
Metal	tonnes	2 125	4 282	885	3 569	2 197
Coal						
Anthracite	tonnes	158 572	109 516	78 064	41 054	303 741
Other coal	tonnes	14 089 233	6 399 941	5 154 853	7 580 839	8 239 446
Briquettes	tonnes	10 188	15	16 347	144 797	294 637
Cobalt						
Oxides	tonnes	127	959	65	144	67
Metal	tonnes	1 579	1 090	353	1 733	2 062

Netherlands

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Unwrought	tonnes	43 620	27 105	29 260	20 175	34 435
Scrap	tonnes	229 090	241 332	143 329	283 847	315 437
Unwrought alloys	tonnes	5 680	6 693	2 413	2 379	3 057
Diamond						
Unsorted	Carats	£1 000 000	£442 000	£494 000	£371 000	£1 799 000
Gem, cut	Carats	£6 214 000	£7 567 000	£3 780 000	£3 132 000	£16 418 000
Industrial	Carats	£1 891 000	£2 156 000	£1 415 000	£2 179 000	£1 282 000
Dust	Carats	£82 000	£45 000	£196 000	£51 000	£57 000
Diatomite	tonnes	348	301	1 365	359	633
Feldspar	tonnes	456	555	1 355	105	112
Fluorspar	tonnes	27 213	12 665	11 333	14 023	28 870
Gold						
Metal	kilograms	22 468	37 439	15 515	34 851	50 559
Waste and scrap	kilograms	4 433	45 456	1 222	57 680	112 629
Graphite	tonnes	4 308	1 378	1 974	2 967	10 651
Gypsum						
Crude	tonnes	49 394	37 991	* 39 600	15 773	42 080
Calcined	tonnes	17 744	15 228	5 550	1 656	2 714
Iodine	kilograms	517 872	773 705	386 170	124 797	152 295
Iron ore	tonnes	2 710 120	(a) 85 698	(a) 239 932	121 426	208 469
Iron, steel and ferro-alloys						
Pig iron	tonnes	134 324	170 468	89 714	111 189	133 861
Ferro-chrome	tonnes	94 048	103 036	62 439	170 489	242 310
Ferro-silico-chrome	tonnes	25	15	* 300	448	14 816
Ferro-manganese	tonnes	42 958	65 203	33 193	35 353	66 053
Ferro-silico-manganese	tonnes	21 432	17 571	37 593	66 085	62 737
Ferro-molybdenum	tonnes	5 579	3 150	1 894	6 462	6 544
Ferro-nickel	tonnes	42 331	5 086	3 564	6 264	7 514
Ferro-niobium	tonnes	1 439	1 736	925	1 175	2 070
Ferro-silicon	tonnes	106 764	71 762	87 348	219 244	238 469
Ferro-titanium and ferro-silico-titanium	tonnes	3 706	3 046	2 730	10 510	13 620
Ferro-tungsten and ferro-silico-tungsten	tonnes	2 010	1 168	476	727	1 155
Ferro-vanadium	tonnes	7 263	2 274	926	1 909	2 343
Other ferro-alloys	tonnes	7 719	22 603	* 33 000	50 903	16 535
Silicon metal	tonnes	15 237	15 547	46 466	69 896	65 055
Ingots, blooms, billets	tonnes	1 111 462	806 999	157 861	849 018	1 553 519
Scrap	tonnes	4 500 919	4 523 660	* 2 835 000	5 541 773	5 692 223
Kaolin	tonnes	416 108	72 264	33 563	33 923	24 652
Lead						
Ores and concentrates	tonnes	2 897	55 980	74 725	63 921	94 100
Unwrought	tonnes	14 824	7 725	11 061	12 971	16 989
Scrap	tonnes	21 822	12 278	13 807	35 168	30 486
Lithium						
Oxides	tonnes	331	511	205	116	365
Carbonate	tonnes	318	299	227	160	300
Magnesite and magnesia						
Magnesite	tonnes	582	494	180	423	744
Magnesia	tonnes	128 060	344 675	160 337	139 516	402 976
Manganese						
Ores and concentrates	tonnes	8 223	19 103	28 701	21 806	29 097
Metal	tonnes	19 767	19 144	15 642	38 159	44 310
Mercury	kilograms	196 039	192 605	419 480	195 272	72 020
Mica	tonnes	6 842	1 341	3 214	1 687	2 396
Molybdenum						
Ores and concentrates	tonnes	26 613	16 284	4 408	17 126	19 765
Metal	tonnes	409	282	46	249	492
Oxides	tonnes	3 059	4 253	1 805	6 429	6 434
Nickel						
Mattes, sinters etc (b)	tonnes	* 6 500	* 2 400	* 2 900	* 1 800	* 2 400
Scrap	tonnes	4 456	4 614	1 711	1 956	1 793
Unwrought (c)	tonnes	80	117	105	165	49 681
Crude petroleum	tonnes	207 858	328 795	184 860	340 357	81 621
Phosphate rock	tonnes	106 235	120 214	11 807	138 239	166 704

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Platinum metals						
Platinum	kilograms	£8 190 000	£18 207 000	£59 804 000	£14 634 000	£9 386 000
Platinum metals	kilograms	£3 766 000	£10 385 000	£10 383 000	£7 953 000	£7 261 000
Waste and scrap	kilograms	25 850	352 175	* 163 160	1 877	220
Potash						
Sulphate	tonnes	7 918	1 424	4 431	7 854	45 711
Chloride	tonnes	170 921	147 436	133 012	174 453	22 746
Other potassic fertilisers	tonnes	1 162	1 341	2 680	15 619	45 766
Rare earths						
Metals	tonnes	64	202	* 135	86	70
Rare earth compounds	tonnes	77	131	* 150	177	327
Ferro-cerium and other pyrophoric alloys	tonnes	4	19	44	49	18
Salt	tonnes	4 055 898	3 878 601	* 3 412 200	3 456 740	2 631 255
Silver						
Ores and concentrates	kilograms	...	18 000	...	1 458	6 944
Metal	kilograms	144 024	208 300	196 180	216 182	624 589
Sulphur and pyrites						
Pyrites	tonnes	102 300	132 802	10 039	56 610	101 114
Sulphur	tonnes	460 352	850 183	36 898	480 968	469 819
Talc	tonnes	199 896	186 688	147 544	173 042	147 492
Tantalum and niobium						
Tantalum	tonnes	2	2	4	22	42
Tin						
Unwrought	tonnes	8 061	2 566	1 536	4 043	3 619
Unwrought alloys	tonnes	293	948	558	856	357
Scrap	tonnes	545	157	547	544	465
Titanium						
Titanium minerals	tonnes	449	1 341	13 664	101 840	69 170
Metal	tonnes	2 182	1 551	895	4 117	9 548
Oxides	tonnes	64 544	15 544	36 179	31 385	11 305
Tungsten						
Ores and concentrates	tonnes	181	29	25	104	0
Metal	tonnes	391	582	133	406	255
Vanadium						
Pentoxide	tonnes	157	45	102	122	186
Zinc						
Ores and concentrates	tonnes	13 939	0	425	12 182	132 344
Unwrought	tonnes	243 354	244 789	133 994	166 281	122 532
Unwrought alloys	tonnes	31 276	23 932	22 041	42 182	52 382
Scrap	tonnes	67 010	19 815	* 11 900	32 543	25 629
Zirconium						
Concentrates	tonnes	14 539	8 223	4 639	11 091	13 351
Metal	tonnes	43	19	0	26	61

Notes

(a) Including burnt pyrites

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

(c) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	26 662 441	26 922 364	* 25 007 000	26 065 573	28 239 777
Aluminium and bauxite						
Bauxite	tonnes	108 088	182 711	68 038	113 499	113 653
Alumina	tonnes	706 255	689 724	153 891	692 413	955 665
Alumina hydrate	tonnes	190 351	178 940	52 798	167 596	246 013
Unwrought	tonnes	713 441	248 386	134 950	384 724	424 915
Unwrought alloys	tonnes	358 930	479 786	284 410	462 371	537 289
Scrap	tonnes	204 117	210 203	88 053	184 066	241 081
Antimony						
Metal	tonnes	699	234	150	314	208
Oxide	tonnes	3 783	51 439	2 257	57 454	26 729
Arsenic						
Metallic arsenic	tonnes	19	8	* 45	2	19
Barytes	tonnes	148 808	122 039	43 928	161 343	148 240
Bentonite	tonnes	305 364	314 298	* 190 000	237 683	289 615
Bismuth						
Metal	tonnes	127	120	42	259	192
Bromine (a)	kilograms	4 403	7 661	63 310	321 599	114 504
Cadmium						
Metal	tonnes	437	186	50	102	1
Cement						
Cement clinkers	tonnes	228 817	380 281	511 560	636 694	424 274
Portland cement	tonnes	2 072 034	1 705 144	904 788	1 123 936	1 580 140
Other cement	tonnes	722 635	993 318	842 190	1 136 163	1 475 035
Chromium						
Ores and concentrates	tonnes	125 778	145 698	18 702	88 788	135 776
Metal	tonnes	2 222	3 897	2 157	6 642	5 773
Coal						
Anthracite	tonnes	62 577	79 784	8 005	44 958	225 184
Other coal	tonnes	24 622 621	17 843 689	14 084 993	18 783 491	18 008 920
Lignite	tonnes	29 517	5 265	29 239	21 933	15 824
Briquettes	tonnes	68 765	53 432	53 030	132 281	429 514
Cobalt						
Metal	tonnes	1 270	1 124	* 491	962	1 023
Oxides	tonnes	489	244	54	118	596
Copper						
Scrap	tonnes	117 259	116 503	—	144 426	204 327
Unwrought, unrefined	tonnes	18 130	26	2 678	7 194	5 502
Unwrought, refined	tonnes	151 515	35 077	33 771	26 982	41 659
Unwrought alloys	tonnes	3 379	2 440	1 329	2 101	2 111
Diamond						
Unsorted	Carats	£299 000	£803 000	£551 000	£80 000	£192 000
Gem, rough	Carats	£320 000	£1 071 000	£95 000	£47 000	£38 000
Gem, cut	Carats	£13 943 000	£17 750 000	£10 757 000	£15 248 000	£35 316 000
Industrial	Carats	£859 000	£1 088 000	£613 000	£624 000	£1 393 000
Dust	Carats	1 089 105	791 805	426 830	290 475	2 074 815
Diatomite	tonnes	7 214	6 275	3 794	4 641	6 034
Feldspar	tonnes	8 529	12 633	8 849	15 721	9 071
Fluorspar	tonnes	48 089	13 860	13 014	14 295	23 603
Gold						
Metal	kilograms	21 706	41 012	42 806	37 888	38 349
Waste and scrap	kilograms	19 174	2 422	111	110 465	188 490
Graphite	tonnes	13 463	42 612	2 487	16 692	14 266
Gypsum						
Crude	tonnes	402 915	285 990	249 206	203 179	307 971
Calcined	tonnes	430 550	415 623	418 481	368 523	611 145
Iodine	kilograms	1 870	800 817	23 376	16 031	1 352 421
Iron ore	tonnes	12 693 210	10 831 769	(b) 4 585 303	(b) 8 810 077	(b) 8 921 399

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	158 199	292 867	122 185	98 575	213 530
Sponge and powder	tonnes	244 874	253 882	109 768	378 111	402 025
Ferro-chrome	tonnes	325 741	275 995	40 931	93 919	123 284
Ferro-silico-chrome	tonnes	674	1	1 394	2 838	525
Ferro-manganese	tonnes	105 789	96 135	39 045	86 504	89 805
Ferro-silico-manganese	tonnes	81 034	70 108	29 335	57 967	80 905
Ferro-molybdenum	tonnes	11 826	8 566	2 868	4 643	7 753
Ferro-nickel	tonnes	16 878	17 602	4 274	19 378	25 849
Ferro-niobium	tonnes	465	2 074	949	920	1 354
Ferro-silicon	tonnes	160 792	114 290	79 461	178 138	152 194
Ferro-titanium and ferro-silico-titanium	tonnes	10 730	6 781	1 860	11 922	13 484
Ferro-tungsten and ferro-silico-tungsten	tonnes	1 186	1 572	554	1 168	1 298
Ferro-vanadium	tonnes	4 132	2 042	519	2 014	1 890
Other ferro-alloys	tonnes	12 829	30 407	6 951	11 263	17 558
Silicon metal	tonnes	68 719	57 446	41 740	82 599	75 664
Ingots, blooms, billets	tonnes	269 481	283 834	110 561	536 157	1 335 875
Scrap	tonnes	1 669 159	1 842 597	* 1 135 000	1 988 278	2 188 452
Kaolin	tonnes	612 720	352 122	68 072	150 929	150 310
Lead						
Ores and concentrates	tonnes	22 303	5 307	1 935	1 558	8 083
Unwrought	tonnes	22 419	9 373	7 195	8 717	8 496
Scrap	tonnes	22 006	11 325	13 593	21 255	16 886
Lithium						
Oxides	tonnes	428	537	228	290	494
Carbonate	tonnes	1 459	729	316	431	527
Magnesite and magnesia						
Magnesite	tonnes	1 390	3 609	3 259	459	3 115
Magnesia	tonnes	437 684	314 860	80 478	345 154	458 372
Manganese						
Ores and concentrates	tonnes	11 749	10 664	9 398	23 045	33 555
Metal	tonnes	31 236	35 573	19 083	50 866	35 618
Mercury	kilograms	674 888	293 481	* 101 000	30 636	213 259
Mica						
Unmanufactured	tonnes	400	751	523	191	419
Ground	tonnes	9 933	2 618	3 490	21 756	20 744
Molybdenum						
Ores and concentrates	tonnes	30 403	36 305	9 555	35 335	40 562
Metal	tonnes	1 060	572	84	274	261
Oxides	tonnes	1 341	859	230	594	865
Nickel						
Ores and concentrates	tonnes	15	11	* 220	5 940	9 544
Scrap	tonnes	14 008	12 647	4 666	21 724	4 607
Unwrought	tonnes	...	...	...	...	230 179
Unwrought alloys	tonnes	204	1 227	227	638	3 548
Oxides (c)	tonnes	* 20	* 30	* 70	* 50	* 70
Crude petroleum	tonnes	57 027 374	58 484 561	35 086 584	60 408 191	55 108 848
Natural gas (c)	tonnes	* 10 072 000	* 17 228 000	* 9 512 000	* 11 044 000	* 12 153 000
Phosphate rock	tonnes	847 776	1 108 711	192 355	779 354	779 537
Platinum metals						
Platinum	kilograms	£22 785 000	£89 137 000	£78 613 000	£25 740 000	£73 911 000
Platinum metals	kilograms	£7 722 000	£8 219 000	£11 659 000	£13 014 000	£54 486 000
Waste and scrap	kilograms	12	40	111	260 515	411 332
Potash						
Sulphate	tonnes	21 211	17 393	28 984	21 982	56 536
Chloride	tonnes	314 011	307 612	204 377	430 138	756 966
Other potassic fertilisers	tonnes	6 691	3 899	3 466	1 542	26 231
Rare earths						
Metals	tonnes	100	261	* 200	48	18
Cerium compounds	tonnes	473	278	71	88	223
Other rare earth compounds	tonnes	3 868	2 766	* 1 100	568	173
Ferro-cerium and other pyrophoric alloys	tonnes	3	4	6	2	1
Salt	tonnes	193 457	167 508	* 253 000	1 404 032	2 397 781
Sillimanite minerals						
Sillimanite minerals	tonnes	14 845	3 400	2 425	3 576	13 342
Mullite	tonnes	34 946	18 557	21 064	51 745	64 162

Netherlands

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Silver						
Metal	kilograms	229 637	265 925	218 279	304 219	338 239
Sulphur and pyrites						
Pyrites	tonnes	80	145 627	2 119	48	1 593
Sulphur	tonnes	38 189	55 173	11 430	49 399	229 496
Talc	tonnes	225 720	207 922	94 407	178 312	199 302
Tantalum and niobium						
Tantalum	tonnes	8	10	4	6	9
Tin						
Unwrought	tonnes	7 858	11 003	7 071	13 967	11 303
Unwrought alloys	tonnes	1 972	2 540	504	665	505
Scrap	tonnes	607	503	380	606	524
Titanium						
Titanium minerals	tonnes	103 580	87 769	* 100 000	238 199	196 960
Metal	tonnes	4 295	1 073	1 224	5 330	6 094
Oxides	tonnes	41 221	37 101	40 914	43 542	52 165
Tungsten						
Ores and concentrates	tonnes	875	457	(c)* 900	(c)* 1 200	(c)* 3 100
Metal	tonnes	284	329	71	206	209
Carbide	tonnes	36	94	42	18	15
Vanadium						
Pentoxide	tonnes	316	227	27	204	888
Zinc						
Ores and concentrates	tonnes	359 520	430 617	320 568	391 050	355 644
Unwrought	tonnes	182 072	155 003	104 253	254 953	227 277
Unwrought alloys	tonnes	38 602	24 062	15 791	19 827	13 356
Scrap	tonnes	13 633	6 270	8 274	12 653	9 283
Zirconium						
Concentrates	tonnes	20 462	24 694	11 027	23 981	43 560
Metal	tonnes	199	240	* 70	188	297

Notes

(a) May include some fluorine

(b) Including burnt pyrites

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

Norway

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	14 855 000	14 817 000	13 047 000	13 011 000	13 215 000
Crushed rock	tonnes	51 533 000	52 338 000	51 378 000	54 134 000	63 855 000
Primary aluminium	tonnes	1 362 000	1 368 000	1 090 000	1 400 000	1 982 000
Cadmium	tonnes	269	178	249	300	309
Cement						
Cement, finished	tonnes	1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Coal						
Bituminous (a)	tonnes	3 223 000	3 429 000	2 437 000	1 685 000	1 640 000
Cobalt metal	tonnes	3 939	3 719	3 510	3 208	3 067
Copper, refined	tonnes	34 200	37 000	33 900	36 200	36 000
Copper, smelter	tonnes	34 200	37 000	33 900	36 200	36 000
Feldspar	tonnes	65 000	62 000	48 000	56 000	25 271
Graphite	tonnes	3 000	4 100	4 562	6 270	7 789
Iron ore	tonnes	630 000	746 000	896 000	3 266 000	2 532 100
Pig iron	tonnes	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Crude steel	tonnes	708 000	560 000	595 000	520 000	620 000
Ferro-alloys						
Ferro-manganese	tonnes	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	tonnes	293 699	273 485	* 250 000	* 250 000	* 250 000
Ferro-silicon	tonnes	170 024	185 344	233 974	* 235 000	170 102
Other ferro-alloys	tonnes	* 62 000	* 60 000	* 60 000	* 60 000	* 60 000
Silicon metal	tonnes	* 140 000	* 155 000	* 150 000	* 150 000	* 150 000
Nepheline syenite	tonnes	312 000	346 000	270 000	327 000	330 000
Nickel, smelter/refinery	tonnes	87 600	88 700	88 577	92 185	92 000
Nickel, mined	tonnes (metal content)	378	377	336	348	339
Crude petroleum	tonnes	125 763 000	121 101 700	115 000 000	105 042 000	100 289 000
Natural gas	million m ³	89 700	99 200	103 500	107 250	101 376
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	* 95 000	* 95 000	* 90 000	* 96 000	* 96 000
Recovered (c)	tonnes (sulphur content)	18 000	28 000	25 000	22 000	19 000
Talc	tonnes	* 34 000	* 30 000	23 350	6 392	8 191
Titanium						
Ilmenite	tonnes	882 000	915 000	671 000	864 000	870 000
Slab zinc	tonnes	157 027	145 469	138 973	148 862	153 200

Notes

(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	2007	2008	2009	2010	2011
Primary aggregates	tonnes	16 183 927	16 683 638	13 843 722	16 877 617	20 858 955
Aluminium and bauxite						
Unwrought	tonnes	113 285	105 729	106 593	74 941	58 478
Unwrought alloys	tonnes	1 496 556	1 484 854	1 249 830	1 420 662	1 370 411
Scrap	tonnes	41 296	41 476	80 729	77 216	88 312
Barytes	tonnes	13 425	5 608	4 069	12 071	8 008
Bentonite	tonnes	254	157	294	3 726	318
Bismuth						
Metal	tonnes	11	1	—	25	—
Cadmium						
Metal	tonnes	205	259	211	329	317
Cement						
Cement clinkers (a)	tonnes	* 117 000	* 118 000	* 104 000	* 150 000	* 251 000
Portland cement (a)	tonnes	* 236 000	* 152 000	* 14 200	* 144 000	* 94 000

Norway

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Chromium						
Metal	tonnes	96	128	85	97	78
Cobalt						
Metal	tonnes	4 030	3 731	3 550	3 325	3 064
Copper						
Unwrought	tonnes	34 007	36 734	32 927	35 975	35 953
Scrap	tonnes	24 066	22 561	25 339	37 829	45 889
Unwrought alloys	tonnes	1 161	756	570	546	596
Diatomite	tonnes	566	770	6	1	—
Feldspar	tonnes	66 484	58 211	47 711	55 637	30 617
Gold						
Metal	kilograms	2 601	3 847	3 865	4 567	7 439
Waste and scrap	kilograms	426	600	1 197	1 482	1 904
Gypsum						
Crude and calcined	tonnes	51 212	69 976	68 140	36 298	85 598
Iodine	kilograms	7 200	—	250	—	13 250
Iron ore	tonnes	739 731	615 296	775 828	1 803 242	2 435 415
Iron, steel and ferro-alloys						
Pig iron (a)	tonnes	* 119 800	* 110 100	* 75 000	* 118 000	* 110 000
Ferro-chrome	tonnes	(a)* 100	(a)* 80	—	(a)* 30	(a)* 65
Ferro-manganese (a)	tonnes	* 329 400	* 354 000	* 203 000	* 332 000	* 379 000
Ferro-silico-manganese	tonnes	280 028	257 804	200 279	245 095	246 808
Ferro-silicon	tonnes	155 198	209 669	115 682	214 643	246 711
Other ferro-alloys	tonnes	61 606	57 777	16 247	2 479	47
Silicon metal	tonnes	144 607	155 385	109 254	162 649	154 191
Ingots, blooms, billets	tonnes	176 755	62 625	106 505	64 474	92 475
Scrap	tonnes	290 644	269 370	228 138	337 675	289 943
Lead						
Scrap	tonnes	974	695	504	1 800	1 444
Manganese						
Ores and concentrates	tonnes	56 939	10 266	9 214	10 709	2 600
Metal	tonnes	2 373	1 363	59	112	462
Mica	tonnes	2 168	2 640	1 835	2 078	2 144
Nickel						
Scrap	tonnes	1 185	394	274	1 042	582
Ores and concentrates	tonnes	5 379	8 093	2 464	4 818	7 598
Unwrought	tonnes	88 628	88 940	88 080	91 813	92 705
Crude petroleum	tonnes	99 245 180	91 299 591	87 982 743	77 765 696	1 669 526
Natural gas	tonnes	63 999 250	71 394 708	74 357 298	75 626 277	74 356 856
Platinum metals						
Platinum and platinum metals	kilograms	14 611	15 393	12 341	9 714	11 951
Waste and scrap	kilograms	66 193	5 119	35 829	157 937	36 399
Potash						
Chloride	tonnes	1 285	—	—	...	...
Rare earths						
Metals	tonnes	0	1	105	—	19
Other rare earth compounds	tonnes	1	21	21	30	23
Salt	tonnes	4 178	4 833	14 998	12 609	5 775
Silver						
Metal	kilograms	45 461	59 381	58 979	57 617	62 849
Sulphur and pyrites						
Sulphur	tonnes	3 325	—	—	1	—
Talc	tonnes	33 032	27 371	23 461	728	2 204
Tin						
Scrap	tonnes	189	119	12	39	30
Titanium						
Titanium minerals (a)	tonnes	* 435 000	* 435 000	* 350 000	* 465 000	* 441 000
Metal	tonnes	117	339	227	231	343
Oxides (a)	tonnes	* 199 000	* 217 000	* 207 000	* 35 000	* 35 000
Zinc						
Unwrought	tonnes	130 570	130 397	128 416	122 649	119 770
Unwrought alloys	tonnes	13 899	9 227	6 107	19 889	29 094

Notes

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	72 906	80 161	66 884	82 706	98 721
Aluminium and bauxite						
Bauxite	tonnes	3 446	10 232	15 444	8 645	459
Alumina	tonnes	2 535 547	2 753 105	2 069 424	2 144 519	2 185 976
Alumina hydrate	tonnes	48 560	50 401	45 252	35 379	53 224
Unwrought	tonnes	435 126	381 638	240 409	512 340	450 432
Unwrought alloys	tonnes	73 058	58 995	95 120	68 086	27 867
Scrap	tonnes	32 024	37 386	26 598	38 039	42 078
Antimony						
Metal	tonnes	70	44	1	1	17
Oxide	tonnes	337	371	200	264	193
Barytes	tonnes	127 181	121 259	146 535	149 510	139 620
Bentonite	tonnes	14 399	14 783	12 612	14 506	12 668
Cement						
Cement clinkers	tonnes	14 895	36 704	6 904	7 070	170
Portland cement	tonnes	441 619	361 216	237 896	353 102	409 018
Other cement	tonnes	19 062	22 317	20 474	21 621	25 809
Chromium						
Ores and concentrates (a)	tonnes	* 20	* 600	* 400	* 60	* 490
Metal	tonnes	253	128	74	90	437
Coal						
Anthracite (b)	tonnes	76 744	81 955	54 199	78 387	79 140
Other coal (a) (b)	tonnes	* 527 000	* 538 000	* 367 000	* 205 000	* 230 000
Briquettes	tonnes	706	24 406	1 074	1 160	733
Cobalt						
Metal	tonnes	3 871	3 131	3 012	2 132	684
Oxides	tonnes	...	...	155	—	0
Copper						
Unwrought	tonnes	3 650	3 133	1 627	4 609	909
Scrap	tonnes	13 486	11 189	9 727	9 891	12 856
Diatomite	tonnes	1 645	1 891	931	842	808
Feldspar	tonnes	12 930	17 367	13 781	16 413	18 228
Gold						
Metal	kilograms	1 448	1 146	670	969	1 220
Waste and scrap	kilograms	1 455	3 940	3 568	4 127	5 415
Graphite	tonnes	980	561	508	400	129
Gypsum						
Crude	tonnes	128 045	121 440	76 435	84 359	94 824
Calcined	tonnes	328 003	298 394	234 564	270 721	275 909
Iodine	kilograms	1 785 526	1 668 339	1 270 662	1 708 338	1 663 657
Iron ore	tonnes	179 727	151 503	134 167	148 809	127 127
Iron, steel and ferro-alloys						
Pig iron	tonnes	11 335	11 198	10 639	1 498	10 709
Ferro-chrome	tonnes	1 303	929	1 162	1 311	1 534
Ferro-manganese	tonnes	10 639	7 448	6 608	5 303	5 254
Ferro-silico-manganese	tonnes	1 034	1 960	1 186	548	0
Ferro-silicon	tonnes	43 350	13 502	9 097	10 615	9 595
Other ferro-alloys	tonnes	3 681	2 471	926	1 665	2 090
Silicon metal	tonnes	39 961	40 878	29 810	49 349	53 897
Ingots, blooms, billets	tonnes	195 928	167 309	59 344	4 733	5 411
Scrap	tonnes	267 085	96 427	91 114	108 802	138 814
Kaolin	tonnes	208 709	253 361	190 562	225 576	149 002
Lead						
Unwrought	tonnes	7 055	6 473	5 026	6 449	7 713
Magnesite and magnesia						
Magnesia	tonnes	4 298	5 989	4 904	10 987	8 714
Manganese						
Ores and concentrates	tonnes	1 083 361	1 232 799	525 674	1 121 716	1 085 383
Metal	tonnes	2 953	2 595	1 297	1 974	2 697
Mica						
Unmanufactured	tonnes	912	1 174	1 021	1 224	1 573
Ground	tonnes	337	1 243	1 140	1 179	294
Nickel						
Mattes, sinters etc	tonnes	165 628	178 502	153 437	170 365	199 173
Unwrought (c)	tonnes	215	201	199	235	246
Crude petroleum	tonnes	1 446 918	828 709	1 225 514	1 508 241	1 238 531
Natural gas	tonnes	118 063	442	231	4 393	1 005

Norway

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Phosphate rock	tonnes	673 331	682 369	403 098	9 638	6 499
Platinum metals						
Platinum and platinum metals	kilograms	1 057	1 072	1 005	1 425	1 430
Waste and scrap	kilograms	846	1 093	930	1 362	1 160
Potash						
Sulphate	tonnes	241 918	190 757	123 549	(c)* 99 000	(c)* 65 000
Chloride	tonnes	349 459	349 459	199 385	(c)* 377 000	(c)* 354 000
Other potassic fertilisers	tonnes	659	674	509	612	287
Rare earths						
Metals	tonnes	738	341	24	148	552
Cerium compounds	tonnes	2	7	9	1	13
Other rare earth compounds	tonnes	0	1	0	8	9
Salt	tonnes	988 001	1 075 905	959 630	1 042 489	1 106 066
Sillimanite minerals	tonnes	3 404	2 702	4 359	3 456	3 208
Silver						
Ores and concentrates (a)	kilograms	* 59 000	* 200	* 5 700	* 1 100	* 700
Metal	kilograms	62 077	67 398	47 040	57 422	49 727
Sulphur and pyrites						
Sulphur	tonnes	5 224	4 690	3 102	2 897	3 051
Sulphur, sublimed and precipitated	tonnes	10 790	12 932	12 127	11 515	11 627
Talc	tonnes	13 374	8 020	6 517	8 356	8 364
Titanium						
Titanium minerals	tonnes	17 600	73 307	29 809	45 018	25 003
Metal	tonnes	637	937	389	412	723
Oxides	tonnes	12 121	12 241	8 209	10 115	10 376
Zinc						
Ores and concentrates	tonnes	284 791	243 213	209 649	228 828	250 537
Unwrought (c)	tonnes	2 167	3 286	1 612	1 376	1 013

Notes

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

(b) Excludes coal imported from Spitzbergen

(c) Including alloys

Poland

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel (a)	tonnes	* 139 388 000	* 149 312 000	* 141 114 000	* 157 236 000	* 176 000 000
Crushed rock	tonnes	46 854 829	39 465 558	52 217 696	58 203 700	83 037 600
Primary aluminium	tonnes	43 000	31 000	—	—	—
Barytes	tonnes	2 000	308	—	—	—
Bentonite	tonnes	1 300	3 000	2 800	2 000	900
Cadmium	tonnes	421	603	534	451	526
Cement						
Cement, clinker	tonnes	13 167 950	12 443 103	10 659 214	11 768 000	13 630 000
Cement, finished	tonnes	17 120 000	17 206 735	15 536 984	15 756 000	18 929 000
Coal						
Bituminous	tonnes	88 313 369	84 345 443	78 064 462	76 727 800	76 454 400
Lignite	tonnes	57 537 727	59 668 166	57 108 304	56 510 100	62 841 300
Copper, mine	tonnes (metal content)	451 900	429 687	439 365	425 700	426 700
Copper, refined	tonnes	532 975	526 808	502 462	547 074	571 000
Copper, smelter	tonnes	518 303	492 942	457 510	469 656	481 875
Diatomite	tonnes	600	600	670	1 000	600
Feldspar	tonnes	497 900	599 100	445 500	513 700	* 550 000
Gold, mine (b)	kilograms	883	902	814	776	703
Gypsum (c)	tonnes	1 581 299	1 499 901	1 326 928	1 399 000	1 500 000
Pig iron	tonnes	5 804 418	4 933 781	2 983 500	3 637 995	3 974 930
Crude steel	tonnes	10 630 716	9 727 325	7 128 482	7 993 025	8 776 458
Ferro-alloys						
Ferro-manganese	tonnes	2 093	8 475	1 736	800	...
Ferro-silico-manganese	tonnes	15 590	25 061	72	100	...
Ferro-silicon	tonnes	58 538	56 031	9 673	53 206	72 668
Other ferro-alloys	tonnes	6 255	2 948	4 190	200	332
Kaolin (d)	tonnes	153 670	165 615	136 561	250 000	143 000
Lead, mine	tonnes (metal content)	61 330	67 070	62 910	48 050	42 636
Lead, refined	tonnes	104 200	108 300	100 400	120 300	133 800
Magnesite	tonnes	65 000	60 000	47 000	63 000	75 000
Crude petroleum	tonnes	720 603	754 907	686 992	686 487	614 704
Natural gas	million m ³	5 653	5 382	5 537	5 666	5 825
Platinum metals						
Platinum	kilograms (metal content)	30	30	30	30	* 30
Palladium	kilograms (metal content)	20	20	20	20	* 20
Rhenium	tonnes	4	5	4	4	* 5
Salt						
Rock salt	tonnes	591 240	618 111	988 545	1 221 700	1 233 800
Brine salt	tonnes	2 930 726	2 783 198	2 533 413	2 646 000	2 633 000
Other salt	tonnes	785 694	706 618	763 385	763 515	547 700
Selenium metal	tonnes	85	82	80	79	85
Silver, mine	kilograms (metal content)	1 199 500	1 161 000	1 206 000	1 183 000	1 167 000
Sulphur and pyrites						
Frasch	tonnes (sulphur content)	833 583	762 119	262 769	517 000	657 000
Recovered (e)	tonnes (sulphur content)	304 000	294 000	257 000	253 000	310 500
Recovered (f)	tonnes (sulphur content)	211 900	222 800	214 382	250 000	* 171 000
Zinc, mine	tonnes (metal content)	129 600	132 400	115 500	92 800	87 800
Slab zinc	tonnes	141 900	142 500	139 100	135 000	94 100

Notes

(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	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 378 634	1 237 976	902 193	1 031 013	1 058 307
Aluminium and bauxite						
Bauxite	tonnes	596	536	833	448	8 546
Unwrought (a)	tonnes	78 187	82 242	66 065	103 803	111 421
Scrap	tonnes	113 649	123 468	102 757	123 503	130 472
Antimony						
Metal	tonnes	22	25	65	27	47
Bentonite	tonnes	19 107	20 384	23 918	21 987	25 050
Bromine	kilograms	9 400	5 000	5 500	9 800	7 100
Cadmium						
Metal	tonnes	368	558	590	484	579
Cement						
Cement clinkers	tonnes	181 690	163 902	127 806	89 692	46 295
Portland cement	tonnes	313 361	314 733	405 940	415 187	358 847
Other cement	tonnes	65 822	78 349	35 305	22 984	17 523
Chromium						
Ores and concentrates	tonnes	147	66	107	425	3 604
Metal	tonnes	1 556	1 465	861	7 948	7 135
Coal						
Anthracite	tonnes	30 256	16 173	5 282	41 908	43 370
Other coal	tonnes	11 761 743	7 775 799	8 368 190	10 323 041	676 364
Lignite	tonnes	—	1 009	68 273	116 682	145 063
Briquettes	tonnes	...	71	363	2 114	15 992
Cobalt						
Oxides	tonnes	5	24	64	8	3
Copper						
Matte and cement	tonnes	2 187	2 989	1 515	956	1 567
Unwrought	tonnes	239 508	296 738	325 395	332 989	327 585
Scrap	tonnes	64 377	63 779	64 606	68 686	60 544
Unwrought alloys	tonnes	6 397	5 469	2 358	1 180	1 260
Diatomite	tonnes	774	277	85	111	788
Feldspar	tonnes	1 849	2 049	1 829	3 050	3 012
Gold						
Metal	kilograms	300	105 000	121 100	1 100	3 000
Waste and scrap	kilograms	700	4 800	18 000	588	26
Graphite	tonnes	68	82	80	233	505
Gypsum						
Crude and calcined	tonnes	56 003	58 644	40 512	47 654	121 689
Iodine	kilograms	1 300	5 100	5 100	16 400	4 000
Iron ore	tonnes	27	10 198	14 893	16 130	4 400
Iron, steel and ferro-alloys						
Pig iron	tonnes	7 481	5 189	10 543	17 340	21 122
Sponge and powder	tonnes	2 350	3 838	4 448	5 293	16 519
Ferro-manganese and ferro-silico-manganese	tonnes	20 412	37 978	21 640	10 113	2 284
Ferro-silicon	tonnes	46 923	52 976	16 401	59 845	76 121
Other ferro-alloys	tonnes	2 221	2 932	2 655	7 452	8 135
Ingots, blooms, billets	tonnes	1 575 099	1 580 450	664 035	490 919	846 908
Scrap	tonnes	1 199 620	1 368 952	978 862	1 334 069	1 838 699
Kaolin	tonnes	10 401	8 936	11 515	9 781	13 591
Lead						
Ores and concentrates	tonnes	70 970	69 852	59 790	35 459	30 132
Unwrought	tonnes	34 455	40 017	48 599	43 945	59 599
Scrap	tonnes	3 120	1 110	1 525	1 668	1 010
Magnesite and magnesia	tonnes	2 632	1 921	734	1 087	651
Manganese						
Metal	tonnes	460	35	603	2 875	41
Mercury	kilograms	61 600	17 700	46 200	106 100	7 300
Nickel						
Mattes, sinters etc	tonnes	...	...	1 443	1 134	—
Scrap	tonnes	268	647	260	416	749
Unwrought (a)	tonnes	466	334	172	1 876	252
Oxides	tonnes	558	759	260	38	29
Crude petroleum	tonnes	287 684	34 871	17 227	3	186 730
Platinum metals						
Platinum and platinum metals	kilograms	156	7 275	47 400	1 100	2 400
Waste and scrap	kilograms	139	7 399	1 600	300	3 400

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Potash						
Potassic fertilisers	tonnes	2 202	9 222	13 279	10 687	10 078
Rare earths						
Cerium compounds	tonnes	15	8	4	7	86
Other rare earth compounds	tonnes	33	22	—	4	66
Salt	tonnes	345 335	361 691	503 899	572 595	515 723
Silver						
Metal	kilograms	1 148 300	1 121 900	1 265 200	1 281 800	1 328 900
Sulphur and pyrites						
Sulphur	tonnes	555 603	446 202	152 484	402 102	394 861
Sulphur, sublimed and precipitated	tonnes	26 376	27 041	29 540	34 752	26 542
Talc	tonnes	750	829	793	869	744
Tin						
Unwrought (a)	tonnes	1 520	355	279	408	536
Titanium						
Metal	tonnes	52	117	105	76	90
Oxides	tonnes	21 776	21 509	20 937	20 996	23 401
Tungsten						
Metal	tonnes	76	143	136	154	179
Zinc						
Ores and concentrates	tonnes	61 595	58 035	45 877	4 213	...
Unwrought	tonnes	73 096	83 571	84 833	96 142	105 552
Unwrought alloys	tonnes	1 829	3 606	4 699	6 280	6 939
Scrap	tonnes	422	430	1 617	902	960

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	5 566 874	5 868 908	5 349 230	5 014 564	9 022 494
Aluminium and bauxite						
Bauxite	tonnes	71 598	59 907	49 033	48 664	45 672
Alumina	tonnes	120 768	126 143	27 626	29 920	34 691
Alumina hydrate	tonnes	27 634	25 334	23 083	31 406	26 536
Unwrought	tonnes	105 281	71 563	67 561	125 567	125 147
Unwrought alloys	tonnes	192 930	195 072	144 983	192 393	232 859
Scrap	tonnes	59 623	67 176	67 408	84 622	98 484
Antimony						
Metal	tonnes	142	52	71	47	68
Oxide	tonnes	1 315	1 086	1 034	1 044	1 026
Arsenic						
Metallic arsenic	tonnes	24	42	20	42	45
Asbestos						
Unmanufactured	tonnes	...	...	35	—	...
Barytes	tonnes	10 895	14 334	8 349	11 758	15 723
Bentonite	tonnes	162 424	171 633	122 165	155 173	212 585
Bismuth						
Metal	tonnes	15	25	20	34	23
Bromine	kilograms	14 300	10 600	6 100	17 200	11 200
Cement						
Cement clinkers	tonnes	65 632	127 428	35 106	111 677	35 663
Portland cement	tonnes	520 330	680 447	421 822	565 893	932 507
Other cement	tonnes	22 982	29 529	21 466	26 247	25 467
Chromium						
Ores and concentrates	tonnes	38 543	36 646	12 728	15 672	30 863
Metal	tonnes	1 717	2 137	679	103	4 533
Coal						
Anthracite	tonnes	449 362	553 152	310 290	583 158	582 605
Other coal	tonnes	5 442 327	9 531 959	10 362 090	13 127 065	14 090 331
Lignite	tonnes	8 946	18 057	30 307	35 973	67 550
Briquettes	tonnes	3 986	10 960	25 788	60 548	60 758

Poland

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Cobalt						
Metal	tonnes	69	51	53	52	47
Oxides	tonnes	18	30	15	18	114
Copper						
Ores and concentrates	tonnes	61 319	62 443	78 027	38 000	45 484
Matte and cement	tonnes	10 062	—	—	612	—
Scrap	tonnes	18 596	19 269	22 153	24 316	26 201
Unwrought, unrefined	tonnes	23 880	33 376	40 030	33 717	23 581
Unwrought, refined	tonnes	7 024	6 629	13 838	26 944	11 822
Unwrought alloys	tonnes	4 516	3 012	2 408	2 813	2 939
Diamond						
Gem, cut	Carats	£3 689 000	£4 686 000	£2 509 000	£2 128 000	£3 805 000
Industrial	Carats	150 918	237 903	169 851	35 260	16 703
Dust	Carats	3 149 550	27 584 081	263 119 707	1 970 015	213 097 170
Diatomite	tonnes	8 235	9 504	9 790	6 753	9 365
Feldspar	tonnes	237 963	243 798	176 717	243 645	324 426
Fluorspar	tonnes	8 682	8 691	8 562	11 013	12 239
Gold						
Metal	kilograms	6 100	3 800	100	200	1 500
Graphite	tonnes	5 701	4 474	3 078	6 933	10 267
Gypsum						
Crude	tonnes	296 289	170 571	157 974	129 336	134 230
Calcined	tonnes	238 858	215 458	82 586	53 613	47 261
Iodine	kilograms	18 800	24 100	10 600	21 700	11 600
Iron ore	tonnes	8 746 836	(a) 7 784 529	(a) 3 752 010	6 494 457	5 977 338
Iron, steel and ferro-alloys						
Pig iron	tonnes	228 445	236 682	156 970	176 145	228 357
Sponge and powder	tonnes	10 282	8 390	4 677	7 594	14 597
Ferro-chrome	tonnes	14 113	13 713	6 064	7 785	8 042
Ferro-silico-magnesium	tonnes	9 102	8 194	5 379	7 352	8 182
Ferro-manganese	tonnes	42 352	31 876	32 935	30 721	45 192
Ferro-silico-manganese	tonnes	79 942	47 964	71 585	56 882	65 816
Ferro-molybdenum	tonnes	1 527	1 554	711	612	547
Ferro-phosphorus	tonnes	1 492	1 386	675	917	1 253
Ferro-silicon	tonnes	24 846	20 424	16 132	21 576	18 457
Other ferro-alloys	tonnes	1 084	1 017	757	1 365	743
Silicon metal	tonnes	13 946	11 652	11 839	16 219	17 091
Ingots, blooms, billets	tonnes	679 404	584 305	157 799	119 466	370 144
Scrap	tonnes	313 907	465 978	596 733	374 076	409 454
Kaolin	tonnes	122 245	126 426	90 183	117 914	143 476
Lead						
Unwrought	tonnes	44 235	35 465	29 861	46 810	52 011
Scrap	tonnes	1 256	2 467	2 293	7 154	6 673
Lithium						
Oxides	tonnes	245	61	86	86	114
Carbonate	tonnes	184	162	137	175	177
Magnesite and magnesia						
Magnesite	tonnes	1 536	216	2 658	3 966	1 375
Magnesia	tonnes	109 810	109 646	81 304	113 757	137 148
Manganese						
Ores and concentrates	tonnes	32 984	54 087	1 930	4 345	4 509
Metal	tonnes	1 167	716	507	1 514	436
Mercury	kilograms	15 700	13 300	10 900	4 300	39 900
Mica	tonnes	1 118	880	1 134	1 150	2 019
Molybdenum						
Metal	tonnes	616	843	281	889	1 292
Nickel						
Mattes, sinters etc	tonnes	38	...	1 468	1 223	7
Scrap	tonnes	4 897	3 683	2 122	341	603
Unwrought (b)	tonnes	2 344	3 398	1 353	3 350	2 722
Crude petroleum	tonnes	20 778 118	20 949 949	19 959 321	22 009 801	22 870 416
Phosphate rock	tonnes	1 689 120	1 448 780	458 923	1 299 106	1 434 124
Platinum metals						
Platinum and platinum metals	kilograms	16 400	16 900	31 300	5 100	2 700

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Potash						
Sulphate	tonnes	20 242	19 161	10 919	19 155	23 281
Chloride	tonnes	992 979	815 282	194 900	757 987	769 256
Other potassic fertilisers	tonnes	4 659	7 143	3 470	4 442	10 317
Rare earths						
Metals	tonnes	1	—	2	5	0
Cerium compounds	tonnes	85	148	43	134	101
Other rare earth compounds	tonnes	63	58	16	48	32
Salt	tonnes	313 297	356 929	483 243	886 294	1 052 650
Sillimanite minerals						
Sillimanite minerals	tonnes	23 321	16 975	7 852	17 956	13 791
Mullite	tonnes	4 956	3 728	1 040	2 109	2 817
Silver						
Metal	kilograms	77 000	95 200	122 900	106 700	78 600
Sulphur and pyrites						
Pyrites	tonnes	1 582	5 768	813	1 866	1 255
Sulphur	tonnes	74 805	104 300	35 350	44 939	53 828
Sulphur, sublimed and precipitated	tonnes	10	105	978	164	387
Talc	tonnes	23 122	28 186	18 325	23 331	26 212
Tantalum and niobium						
Tantalum	tonnes	3	52	1	3	1
Tin						
Concentrates	tonnes	77	...	220	98	...
Unwrought (b)	tonnes	1 838	1 857	1 102	1 317	1 579
Scrap	tonnes	1 931	1 038	1 664	1 605	2 790
Titanium						
Titanium minerals	tonnes	100 002	91 208	84 396	105 384	99 055
Metal	tonnes	2 122	451	264	616	2 020
Oxides	tonnes	45 984	41 019	42 031	46 110	54 770
Tungsten						
Metal	tonnes	108	103	87	124	96
Zinc						
Ores and concentrates	tonnes	127 720	150 283	130 258	115 561	97 225
Unwrought	tonnes	31 838	26 811	18 498	53 983	49 569
Unwrought alloys	tonnes	13 660	11 906	8 922	7 610	10 045
Scrap	tonnes	4 445	6 378	3 907	7 188	10 421
Zirconium						
Concentrates	tonnes	542	833	340	648	488

Notes

(a) Including burnt pyrites

(b) Including alloys

Portugal

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	10 664 828	10 182 146	9 190 603	7 500 000	* 7 000 000
Crushed rock	tonnes	60 556 329	58 283 117	55 263 772	49 191 754	* 46 000 000
White arsenic	tonnes	* 15	* 15	* 15	* 15	* 15
Barytes	tonnes	25	171	1 078	15	—
Cement						
Cement, clinker (a)	tonnes	1 513 487	1 760 510	1 749 406	1 102 976	1 948 137
Cement, finished (a)	tonnes	9 178 735	8 365 242	7 031 438	3 855 312	6 507 016
Copper, mine	tonnes (metal content)	90 182	89 026	86 462	74 011	82 200
Feldspar	tonnes	378 521	230 427	210 266	169 722	179 600
Gypsum	tonnes	418 035	372 731	335 189	336 755	337 272
Crude steel	tonnes	1 847 000	1 630 000	1 587 000	1 351 000	1 351 000
Kaolin	tonnes	183 598	217 434	274 925	273 890	322 041
Lead, refined	tonnes	5 000	5 000	4 000	4 000	4 000
Lithium						
Lepidolite	tonnes	34 755	34 888	37 359	40 109	37 534
Salt						
Rock salt	tonnes	590 588	606 545	594 578	618 961	631 295
Sea salt	tonnes	64 048	69 249	72 325	44 574	48 048
Silver, mine	kilograms (metal content)	26 514	26 273	20 483	20 561	25 545
Talc	tonnes	12 367	11 657	11 567	11 981	15 462
Tin, mine	tonnes (metal content)	41	29	34	22	39
Tungsten, mine (b)	tonnes (metal content)	846	981	823	799	818
Zinc, mine	tonnes (metal content)	24 380	37 900	501	6 422	4 227

Notes

(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	2007	2008	2009	2010	2011
Primary aggregates	tonnes	120 914	44 174	101 421	67 505	120 946
Aluminium and bauxite						
Unwrought alloys	tonnes	130 636	127 150	90 869	102 856	59 056
Scrap	tonnes	41 603	40 020	32 481	51 888	45 775
Antimony						
Metal	tonnes	267	60	119	138	70
Bentonite	tonnes	1 718	1 608	691	1 175	1 356
Cement						
Cement clinkers	tonnes	1 263 190	1 448 397	1 553 992	1 888 362	916 431
Portland cement	tonnes	1 481 219	1 102 589	758 854	996 778	1 345 607
Other cement	tonnes	58 931	11 139	15 231	10 440	8 111
Coal						
Anthracite	tonnes	10 557	9 382	4 409	7 136	7 405
Copper						
Ores and concentrates	tonnes	399 589	375 755	371 881	305 485	327 096
Unwrought	tonnes	227	600	2 098	1 887	9 969
Scrap	tonnes	24 566	22 184	20 213	24 491	36 151
Diamond						
Gem, cut	Carats	£105 000	£55 000	£52 000	£550	£61 000
Dust	Carats	10 000	—	10 000	92 107	788 459
Diatomite	tonnes	943	554	473	7 545	7 299
Feldspar	tonnes	4 048	873	1 290	2 190	3 197

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Gold						
Metal	kilograms	200	...	—	6 600	13 100
Waste and scrap	kilograms	1 100	36 100	800	800	100
Gypsum						
Crude and calcined	tonnes	8 362	22 707	12 394	20 016	47 278
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 196	1	51	18 502	21 606
Ferro-alloys	tonnes	206	546	255	1 746	2 392
Ingots, blooms, billets	tonnes	138 692	164 425	136 284	172 983	119 353
Scrap	tonnes	378 043	172 133	216 037	303 013	239 842
Kaolin	tonnes	70 580	47 562	51 014	31 390	102 721
Lead						
Unwrought	tonnes	3 092	4 950	6 647	8 785	8 050
Scrap	tonnes	9 961	3 105	2 222	1 710	1 855
Natural gas	tonnes	—	890 688	254 997	389 309	875
Platinum metals						
Waste and scrap	kilograms	33 500	...	—	...	15 100
Potash						
Potassic fertilisers	tonnes	80	240	402	612	895
Salt	tonnes	25 341	13 412	15 662	31 022	31 304
Silver						
Ores and concentrates	kilograms	4 000	13 500	11 500	12 300	16 300
Metal	kilograms	218	7 876	580	3 400	10 600
Sulphur and pyrites						
Sulphur	tonnes	15 410	7 539	5 737	6 164	9 737
Talc	tonnes	4 243	3 841	2 699	4 316	2 526
Tantalum and niobium						
Tantalum	tonnes	63	48	49	98	81
Tin						
Unwrought	tonnes	173	—	250	—	31
Scrap	tonnes	25	147	9	43	82
Titanium						
Oxides	tonnes	1 064	1 189	1 166	1 091	3 422
Tungsten						
Ores and concentrates	tonnes	1 466	1 705	1 407	1 289	1 324
Metal	tonnes	16	17	20	6	131
Zinc						
Ores and concentrates	tonnes	40 950	75 414	371	7 438	2 201
Unwrought (a)	tonnes	242	1 307	849	151	734
Scrap	tonnes	3 345	2 910	1 646	940	755

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	731 709	194 088	175 576	224 514	255 625
Aluminium and bauxite						
Alumina	tonnes	9 325	9 750	13 742	14 862	8 762
Unwrought	tonnes	16 859	17 732	15 200	20 152	18 744
Unwrought alloys	tonnes	214 990	214 614	149 759	170 057	113 150
Scrap	tonnes	3 994	2 409	15 819	10 183	5 305
Antimony						
Oxide	tonnes	172	161	146	240	184
Barytes	tonnes	1 934	3 806	3 744	4 448	2 509
Bentonite	tonnes	18 480	20 304	12 788	18 205	23 436
Cement						
Cement clinkers	tonnes	331 025	196 929	24 156	24 143	3 238
Portland cement	tonnes	45 012	22 862	150 065	186 170	134 000
Other cement	tonnes	11 966	8 842	11 072	11 771	5 043
Chromium						
Ores and concentrates	tonnes	3 339	5 369	2 361	2 108	2 727

Portugal

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Coal						
Anthracite	tonnes	44 447	48 793	28 472	21 454	30 860
Other coal	tonnes	4 733 158	3 721 513	4 922 698	2 648 704	3 592 502
Copper						
Unwrought	tonnes	5 309	5 534	8 480	9 661	9 103
Scrap	tonnes	8 503	10 229	7 550	8 819	7 973
Diamond						
Gem, cut	Carats	£3 435 000	£3 949 000	£1 756 000	£2 039 000	£3 732 000
Industrial	Carats	£427 000	£296 000	£246 000	£111 000	£122 000
Dust	Carats	8 473 445	5 891 661	5 514 973	10 117 653	16 401 864
Diatomite	tonnes	1 731	1 372	1 127	2 284	2 340
Feldspar	tonnes	108 150	85 400	72 275	63 675	49 902
Fluorspar	tonnes	2 423	1 828	2 243	636	794
Gold						
Metal	kilograms	2 003	1 535	1 077	1 500	1 200
Graphite	tonnes	2 210	1 493	73	66	62
Gypsum						
Crude	tonnes	75 794	89 627	81 971	73 822	40 153
Calcined	tonnes	320 174	298 708	244 809	270 783	237 788
Iodine	kilograms	900	100	8 000	8 700	8 600
Iron, steel and ferro-alloys						
Pig iron	tonnes	17 468	13 824	7 507	10 623	4 980
Sponge and powder	tonnes	1 498	740	38 849	6 919	37 376
Ferro-chrome	tonnes	1 050	1 093	245	810	683
Ferro-silico-magnesium	tonnes	6 070	6 228	4 551	2 072	2 990
Ferro-manganese	tonnes	1 281	908	762	856	722
Ferro-silico-manganese	tonnes	9 835	10 063	9 921	3 820	4 836
Ferro-silicon	tonnes	3 355	3 479	3 707	2 902	3 408
Other ferro-alloys	tonnes	187	393	69	61	91
Ingots, blooms, billets	tonnes	84 769	26 532	53 089	28 583	33 675
Scrap	tonnes	1 075 517	1 128 391	887 110	672 856	616 063
Kaolin	tonnes	154 891	114 041	73 081	96 851	106 955
Lead						
Unwrought	tonnes	14 704	12 014	6 642	5 593	9 403
Magnesite and magnesia						
Magnesite	tonnes	924	1 521	697	1 162	1 379
Magnesia	tonnes	7 119	5 863	8 538	4 504	5 523
Manganese						
Ores and concentrates	tonnes	51	765	13	68	56
Mercury	kilograms	—	7 500	25 100	152 900	125 400
Mica	tonnes	284	125	139	284	288
Nickel						
Unwrought	tonnes	(a) 450	524	316	312	221
Crude petroleum	tonnes	12 386 104	12 050 226	10 193 366	11 251 958	10 152 747
Natural gas	tonnes	3 758 075	4 188 706	3 770 943	3 849 819	3 543 064
Phosphate rock	tonnes	114 826	90 667	44 189	93 348	91 703
Platinum metals						
Platinum and platinum metals	kilograms	57	308	146	796	100
Potash						
Sulphate	tonnes	4 223	1 869	1 574	3 840	4 405
Chloride	tonnes	51 600	38 200	25 525	50 687	65 352
Other potassic fertilisers	tonnes	1 629	1 708	5 389	1 899	2 596
Rare earths						
Metals	tonnes	0	0	...	1	87
Cerium compounds	tonnes	18	15	11	7	8
Other rare earth compounds	tonnes	97	7	2	5	18
Salt	tonnes	169 480	94 501	108 161	172 107	144 688
Silver						
Metal	kilograms	30 616	22 678	18 602	66 900	38 700
Sulphur and pyrites						
Sulphur	tonnes	3 233	2 852	3 366	4 861	3 981
Talc	tonnes	36 089	26 774	18 537	24 143	22 388
Tantalum and niobium						
Tantalum	tonnes	69	83	22	41	44
Tin						
Unwrought	tonnes	577	487	308	317	560
Unwrought alloys	tonnes	419	130	103	100	19

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Titanium						
Titanium minerals	tonnes	412	263	358	714	807
Oxides	tonnes	19 545	18 800	18 456	20 486	19 813
Tungsten						
Metal	tonnes	122	251	193	277	206
Carbide	tonnes	119	169	46	110	106
Zinc						
Unwrought	tonnes	16 367	19 551	12 830	15 757	13 299
Unwrought alloys	tonnes	5 054	4 617	4 018	4 522	3 967
Zirconium						
Concentrates	tonnes	7 205	8 162	5 620	5 475	4 048

Note

(a) Including alloys

Romania

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	26 276 857	31 377 110	23 199 337	22 085 231	25 424 330
Crushed rock	tonnes	5 905 842	4 635 010	4 718 854	3 774 309	6 269 228
Alumina	tonnes (Al ₂ O ₃ content)	22 830	344	44 000	414 000	484 000
Primary aluminium	tonnes	283 449	288 156	228 630	241 000	261 000
Bentonite	tonnes	16 911	16 638	13 756	21 637	19 864
Bismuth, mine	tonnes (metal content)	* 40	* 40	* 40	* 40	* 40
Cement						
Cement, clinker	tonnes	222 699	111 719	—	—	33 363
Cement, finished	tonnes	9 844 706	10 461 456	7 902 328	7 008 422	7 646 612
Coal						
Lignite	tonnes	35 671 000	34 529 000	28 460 152	28 774 244	33 779 130
Brown coal	tonnes	97 000	205 000	63 458	62 448	46 071
Copper, mine	tonnes (metal content)	2 213	308	3 129	5 127	6 355
Copper, refined	tonnes	18 589	15 300	4 600	—	—
Diatomite	tonnes	2 057	—	—	—	—
Feldspar	tonnes	41 477	22 995	14 317	6 049	3 814
Gold, mine	kilograms	* 500	500	* 500	* 500	* 500
Graphite	tonnes	—	—	24 352	6 633	...
Gypsum	tonnes	1 004 150	832 248	720 713	639 010	* 660 000
Iron ore	tonnes	8 157	—	—	—	—
Pig iron	tonnes	3 923 244	2 957 715	1 576 679	1 723 418	1 595 000
Crude steel	tonnes	6 269 486	5 035 164	2 772 679	3 720 775	3 835 000
Ferro-alloys						
Ferro-chrome	tonnes	—	6 179	15 377	14 353	* 10 000
Ferro-silico-manganese	tonnes	26 868	9 979	—	20 605	* 30 000
Kaolin	tonnes	7 576	3 060	651	326	—
Lead, mine	tonnes (metal content)	784	—	* 3 000	* 3 000	* 3 000
Lead, refined	tonnes	39 369	39 596	8 687	11 263	6 854
Manganese	tonnes	49 350	43 590	20 304	13 120	3 180
Crude petroleum	tonnes	4 837 000	4 528 000	4 388 940	4 172 411	4 081 979
Natural gas	million m ³	11 981	11 520	11 273	11 138	11 164
Salt	tonnes	2 475 349	2 526 774	2 072 744	2 388 357	2 248 940
Silver, mine	kilograms (metal content)	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Talc	tonnes	1 513	1 843	570	296	131
Uranium, mine	tonnes (metal content)	* 77	* 77	* 75	* 77	* 77
Zinc, mine	tonnes (metal content)	849	14	* 3 000	* 5 000	* 5 000
Slab zinc	tonnes	58 342	61 978	1 000	—	—

Note

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

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	111 803	60 190	160 241	360 161	255 970
Aluminium and bauxite						
Alumina	tonnes	5 191	0	99	25 559	38 406
Unwrought	tonnes	23 193	61 638	50 496	10 312	14 004
Unwrought alloys	tonnes	9 080	6 690	5 898	51 556	70 697
Scrap	tonnes	14 332	16 021	20 775	17 733	12 801
Barytes	tonnes	...	...	1 812	258	2 009
Cement						
Cement clinkers	tonnes	243 116	111 719	182	265	24 810
Portland cement	tonnes	134 044	7 449	17 869	20 039	278 795
Coal						
Hard coal	tonnes	(a) 67 304	(a) 5 331	(a) 19 771	(a) 73 002	35 712

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Ores and concentrates	tonnes	23 689	33 391	6 711	31 582	39 704
Matte and cement	tonnes	11 569	8 494	4 502	956	186
Scrap	tonnes	35 856	39 733	42 148	49 248	54 536
Feldspar	tonnes	25 102	16 438	8 375	1	283
Gypsum						
Crude and calcined	tonnes	13 507	13 069	17 966	17 672	15 576
Iron ore						
Iron ore	tonnes	21	42 606	172 372	1 718	2 728
Burnt pyrites	tonnes	24 068	15 567	12 694	1 359	1 690
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	17 832	18 697	18 807	24 454	29 320
Ferro-chrome	tonnes	8	161	3 543	14 234	10 996
Ferro-manganese	tonnes	222	701	1 801	45	26
Ferro-silico-manganese	tonnes	33 529	5 793	8 120	19 087	34 387
Ferro-niobium	tonnes	418	123	72	53	66
Ferro-silicon	tonnes	396	444	727	24	0
Other ferro-alloys	tonnes	136	197	130	223	101
Ingots, blooms, billets	tonnes	183 551	220 136	51 644	196 302	267 543
Scrap	tonnes	1 963 213	1 985 977	2 565 443	2 519 237	2 348 565
Lead						
Ores and concentrates	tonnes	10 501	17 396	15 759	9 096	5 952
Unwrought	tonnes	23 289	22 752	9 049	10 573	18 722
Scrap	tonnes	4 659	2 997	2 526	5 659	6 846
Magnesite and magnesia						
Magnesia	tonnes	351	440	381	460	212
Manganese						
Metal	tonnes	3 024	6 666	—	—	—
Nickel						
Scrap	tonnes	90	1 397	1 089	816	561
Salt	tonnes	506 641	486 040	372 501	790 530	712 657
Sulphur and pyrites						
Pyrites	tonnes	0	994	6 315	8	5
Sulphur	tonnes	45 579	59 030	49 052	55 961	58 437
Tin						
Unwrought (b)	tonnes	63	51	66	68	128
Titanium						
Metal	tonnes	650	2 469	541	960	550
Zinc						
Ores and concentrates	tonnes	4 043	503	24 528	15 375	17 592
Unwrought (b)	tonnes	48 339	59 395	8 004	657	776
Scrap	tonnes	1 348	442	1 615	711	597

Notes

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	352 576	351 123	205 133	248 484	370 249
Aluminium and bauxite						
Bauxite	tonnes	75 934	45 527	104 404	1 277 587	1 271 274
Alumina	tonnes	482 375	487 304	353 846	1 928	15 037
Alumina hydrate	tonnes	16 927	17 822	7 996	10 412	5 768
Unwrought (a)	tonnes	10 191	16 416	17 383	33 874	27 311
Scrap	tonnes	3 833	598	3 838	83 381	62 768
Antimony						
Metal	tonnes	68	30	36	61	43
Oxide	tonnes	190	153	87	88	120
Barytes	tonnes	14 040	25 475	8 351	8 501	15 598
Bentonite	tonnes	5 253	6 014	3 859	4 825	6 341
Bromine (b)	kilograms	152 319	267 073	285 593	230 850	230 850

Romania

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Cement						
Cement clinkers	tonnes	500 794	486 462	23 613	75 812	144 547
Portland cement	tonnes	142 476	538 259	296 687	307 977	239 373
Other cement	tonnes	12 072	32 765	15 779	22 004	21 297
Chromium						
Ores and concentrates	tonnes	1 856	77 546	705	7 054	1 637
Metal	tonnes	78	64	39	16	105
Coal						
Anthracite	tonnes	68 924	110 484	56 296	72 776	148 260
Other coal	tonnes	4 421 709	3 008 391	937 077	936 727	840 669
Lignite	tonnes	575 514	121 227	62 469	718	1 706
Briquettes	tonnes	237 051	148 890	102 372	96 428	197
Cobalt						
Oxides	tonnes	29	6	37	41	79
Copper						
Unwrought	tonnes	25 093	22 116	10 926	2 282	2 915
Scrap	tonnes	1 710	4 197	437	2 443	3 218
Diatomite	tonnes	3 254	3 798	2 477	2 269	2 459
Feldspar	tonnes	48 999	49 160	37 639	36 924	45 421
Fluorspar	tonnes	4 738	2 526	1 481	2 911	3 817
Graphite	tonnes	542	304	144	1 499	742
Gypsum						
Crude	tonnes	66 231	90 194	45 891	40 703	63 658
Calcined	tonnes	77 900	100 471	62 134	47 912	50 866
Iodine	kilograms	2 636	1 395	330	300	500
Iron ore						
Iron ore	tonnes	6 259 705	5 003 811	1 597 033	2 848 921	2 186 674
Burnt pyrites	tonnes	2 824	17 770	11 572	29 544	35 551
Iron, steel and ferro-alloys						
Pig iron	tonnes	53 779	37 889	61 027	111 702	48 365
Sponge and powder	tonnes	2 446	3 203	1 518	2 740	22 355
Ferro-chrome	tonnes	2 838	3 423	984	1 500	2 856
Ferro-manganese	tonnes	34 126	28 773	9 063	15 530	18 136
Ferro-silico-manganese	tonnes	37 558	17 919	11 461	19 151	24 215
Ferro-silicon	tonnes	21 156	13 190	4 998	9 859	9 602
Other ferro-alloys	tonnes	3 191	2 412	1 508	2 210	2 699
Silicon metal	tonnes	1 192	3 155	1 104	3 098	3 205
Ingots, blooms, billets	tonnes	922 499	757 551	109 046	458 742	771 167
Scrap	tonnes	15 771	17 886	4 204	5 501	8 416
Kaolin	tonnes	51 347	48 422	40 326	51 754	56 871
Lead						
Ores and concentrates	tonnes	17 064	27 055	5 889	7 052	9 420
Unwrought	tonnes	835	872	9 245	11 834	16 789
Magnesite and magnesia						
Magnesia	tonnes	19 666	13 003	7 427	10 389	13 391
Manganese						
Ores and concentrates	tonnes	79	16 432	16	87 880	66 285
Metal	tonnes	3 030	646	527	220	588
Mercury	kilograms	80 054	2 325	415	18 149	19 500
Mica	tonnes	478	488	441	785	1 077
Nickel						
Unwrought (c)	tonnes	528	338	288	456	224
Crude petroleum	tonnes	8 533 821	8 419 364	6 893 956	5 821 640	5 451 662
Natural gas	tonnes	8 877 219	7 757 273	1 451 767	* 2 000 000	3 283 138
Phosphate rock	tonnes	193 276	225 581	103 500	233 377	254 061
Potash						
Sulphate	tonnes	4 086	5 133	19 592	13 726	6 936
Chloride	tonnes	50 558	68 877	5 119	56 922	46 842
Other potassic fertilisers	tonnes	1 058	338	374	425	683
Rare earths						
Rare earth compounds	tonnes	9	6	5	5	1
Salt	tonnes	111 681	92 815	82 569	81 441	114 500
Silver						
Metal (d)	kilograms	* 7 700	* 9 400	* 8 800	* 27 500	* 8 100

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Sulphur and pyrites						
Pyrites	tonnes	3	1 072	1	1	51
Sulphur	tonnes	1 959	2 390	1 884	2 561	2 965
Sulphur, sublimed and precipitated	tonnes	2	180	1 254	2 062	2 074
Talc	tonnes	2 006	1 971	1 105	2 099	2 248
Tin						
Unwrought (c)	tonnes	137	127	114	85	125
Titanium						
Titanium minerals	tonnes	2 093	2 171	1 513	2 095	5 393
Metal	tonnes	612	453	707	771	541
Oxides	tonnes	11 132	9 127	7 151	8 733	10 571
Tungsten						
Metal	tonnes	59	1 122	22	79	50
Zinc						
Ores and concentrates	tonnes	173 536	161 527	12	3	—
Unwrought (c)	tonnes	13 135	7 394	10 523	16 664	17 006
Zirconium						
Metal	tonnes	16	136	301	35	41

Notes

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

Serbia

Production

Commodity	Units	2007	2008	2009	2010	2011
Coal						
Bituminous	tonnes	58 000	66 000	69 000	108 000	134 000
Lignite	tonnes	36 803 000	(a)(b) 31 332 000	(b) 38 070 579	(b) 37 562 840	(b) 40 467 132
Brown coal	tonnes	204 000	...	209 660	193 492	349 861
Copper, mine	tonnes (metal content)	16 500	17 600	19 400	22 500	25 800
Copper, refined	tonnes	31 600	33 800	27 400	22 200	25 300
Copper, smelter	tonnes	30 200	31 900	27 000	20 000	28 200
Feldspar	tonnes	* 250	* 200	149	253	171
Gold, mine (c)	kilograms	500	* 712	818	856	1 534
Kaolin	tonnes	97 432	398 917	163 616	76 197	90 472
Lead, mine	tonnes (metal content)	1 600	1 600	1 800	1 800	2 100
Lead, refined	tonnes	1 300	—	—	—	—
Nickel, smelter/refinery	tonnes	1 000	—	—	—	—
Pig iron	tonnes	1 485 000	1 582 000	964 607	1 158 628	1 197 693
Crude steel	tonnes	1 478 000	1 662 000	1 054 336	1 254 386	1 304 954
Crude petroleum	tonnes	639 089	636 383	663 005	865 499	1 020 490
Natural gas	million m ³	274	282	279	423	448
Platinum metals						
Platinum	kilograms (metal content)	2	—	12	—	* —
Palladium	kilograms (metal content)	15	70	38	22	25
Salt	tonnes	30 023	30 115	28 782	30 816	23 334
Silver, mine (d)	kilograms (metal content)	2 300	2 300	4 424	4 384	7 380
Zinc, mine	tonnes (metal content)	1 200	2 400	2 700	2 600	3 100
Slab zinc	tonnes	2 000	—	—	—	—

Notes

(1) Serbia is also believed to produce sulphur

(a) Including brown coal

(b) Excluding production in Kosovo

(c) Metal production

(d) Smelter and/or refinery production

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	154 979	323 034	334 517	127 309	497 637
Aluminium and bauxite						
Unwrought	tonnes	7 008	13 213	7 387	17 602	15 353
Scrap	tonnes	1 267	11 342	10 972	13 574	22 248
Asbestos						
Unmanufactured	tonnes	...	15	62	1	306
Bentonite	tonnes	5 048	5 066	5 107	4 823	11 903
Cement						
Cement clinkers	tonnes	357 633	385 154	66 309	...	...
Portland cement	tonnes	83 126	138 375	76 539	156 477	115 432
Other cement	tonnes	3 060	2 560	125	33	28
Coal						
Anthracite	tonnes	9 867	3 102	3 784	4 434	2 507
Other coal	tonnes	15 707	4 068	14 530	3 801	1 116
Lignite	tonnes	339 764	217 029	120 553	112 009	32 337
Briquettes	tonnes	23	5 333	630	8 724	573
Copper						
Ores and concentrates	tonnes	2 250	3 448	1 452	1 666	2 234
Matte and cement	tonnes	333	41	1 928	2 501	1 649
Unwrought	tonnes	12 525	4 421	4 328	10 921	9 544
Scrap	tonnes	7 176	7 637	7 920	12 286	9 991
Gold						
Metal	kilograms	315	302	3 278	93	78

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Gypsum						
Crude and calcined	tonnes	38	2 230	617	16	40
Iron, steel and ferro-alloys						
Pig iron	tonnes	58 744	81 427	71 778	70 090	46 629
Ingots, blooms, billets	tonnes	849	632	46 587	20 547	111 080
Scrap	tonnes	441 098	345 813	328 763	416 713	357 778
Kaolin	tonnes	17 213	10 251	4 239	1 868	1 282
Lead						
Ores and concentrates	tonnes	11 118	11 763	9 133	10 265	13 981
Unwrought	tonnes	7 187	5 683	6 695	5 661	7 848
Magnesite and magnesia	tonnes	463	858	561	2 179	7 355
Potash						
Potassic fertilisers	tonnes	856	245	163	690	3 672
Salt	tonnes	5 026	4 151	3 895	16 290	13 362
Silver						
Metal	kilograms	3 315	6 937	3 670	4 355	4 222
Sulphur and pyrites						
Sulphur	tonnes	4 017	4 424	1 451	2 335	3 571
Zinc						
Ores and concentrates	tonnes	12 245	21 140	10 699	14 921	23 247
Scrap	tonnes	272	63	330	120	67

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	12 978	17 616	12 664	15 910	8 759
Aluminium and bauxite						
Bauxite	tonnes	2 154	9 776	4 773	10 972	7 800
Alumina hydrate	tonnes	2 134	2 151	2 199	3 036	2 089
Unwrought	tonnes	58 811	54 765	36 626	54 512	51 717
Unwrought alloys	tonnes	18 967	18 753	12 913	13 600	15 834
Scrap	tonnes	5 311	5 399	4 411	8 404	6 870
Barytes	tonnes	86	111	0	421	1 494
Bentonite	tonnes	2 701	3 370	2 274	1 683	1 804
Cement						
Cement clinkers	tonnes	...	24 795	...	1 321	5 309
Portland cement	tonnes	13 618	62 283	41 744	52 582	92 665
Other cement	tonnes	860	1 124	1 003	728	784
Chromium						
Ores and concentrates	tonnes	330	519	436	641	725
Coal						
Anthracite	tonnes	5 220	10 500	10 752	18 056	16 456
Other coal	tonnes	308 197	326 808	89 731	156 846	183 713
Lignite	tonnes	215 602	249 563	276 033	307 250	615 026
Briquettes	tonnes	3 923	6 071	2 181	11 130	8 975
Copper						
Ores and concentrates	tonnes	50 519	55 655	33 808	...	3 063
Unwrought, unrefined	tonnes	1 341	761	0	26	2
Unwrought, refined	tonnes	21 875	21 875	20 685	37 046	26 943
Feldspar	tonnes	16 965	15 131	8 424	10 139	11 864
Gypsum						
Crude	tonnes	182	21	13 273	14 601	22 546
Calcined	tonnes	16 779	18 733	11 684	9 276	9 962
Iodine	kilograms	12 982	4 494	4 030	8 137	10 876
Iron ore	tonnes	2 093 317	2 092 208	1 397 755	1 860 593	1 624 795

Serbia

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 244	2 235	523	2 739	1 257
Sponge and powder	tonnes	108	5 154	122	217	187
Ferro-chrome	tonnes	1 350	1 167	1 104	1 272	1 796
Ferro-manganese	tonnes	11 635	12 329	8 571	9 524	9 270
Ferro-silico-manganese	tonnes	134	78	6	440	2 431
Ferro-silicon	tonnes	3 307	3 086	2 089	2 418	3 285
Other ferro-alloys	tonnes	512	491	275	324	357
Ingots, blooms, billets	tonnes	293 912	95 726	205 528	283 255	34 875
Scrap	tonnes	8 252	49 261	15 178	12 403	35 192
Kaolin	tonnes	43 867	65 704	32 091	50 421	38 810
Lead						
Ores and concentrates	tonnes	...	...	...	5 978	8 127
Unwrought	tonnes	2 742	2 871	4 493	6 018	5 302
Scrap	tonnes	11	...	0	1 228	2 643
Magnesite and magnesia						
Magnesia	tonnes	4 871	840	585	570	547
Manganese						
Ores and concentrates	tonnes	13 584	12 981	16 833	17 003	14 366
Metal	tonnes	209	233	180	324	317
Nickel						
Unwrought	tonnes	184	174	116	143	107
Crude petroleum	tonnes	2 586 011	2 585 294	2 280 658	1 869 881	1 497 415
Natural gas	tonnes	1 453 564	1 548 551	1 046 465	1 346 955	1 362 390
Phosphate rock	tonnes	102 505	102 441	3 974	20 394	60 024
Potash						
Sulphate	tonnes	1 021	317	77	122	248
Chloride	tonnes	102 223	109 734	10 710	71 906	53 113
Salt	tonnes	208 766	152 207	144 711	204 395	274 636
Sulphur and pyrites						
Sulphur	tonnes	627	338	621	674	721
Talc	tonnes	1 606	1 733	1 236	1 616	1 270
Tin						
Unwrought	tonnes	129	83	49	60	72
Titanium						
Oxides	tonnes	4 504	4 548	3 892	3 888	4 498
Zinc						
Unwrought	tonnes	5 966	8 209	4 178	4 846	5 275

Slovakia

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	6 470 725	7 517 655	6 919 826	6 931 873	6 020 641
Crushed rock	tonnes	13 338 000	16 345 800	15 233 400	14 909 400	9 855 157
Primary aluminium	tonnes	160 461	162 995	149 604	163 000	162 840
Asbestos	tonnes	400	200	—	—	—
Barytes	tonnes	58 000	20 000	30 000	17 000	13 000
Bentonite	tonnes	149 000	145 000	109 000	153 000	213 000
Cement						
Cement, clinker	tonnes	...	...	1 822 820	1 607 025	1 823 306
Cement, finished	tonnes	3 718 410	4 157 356	3 011 460	2 887 749	3 219 557
Coal						
Lignite	tonnes	20 000	87 000	155 000	176 000	124 000
Brown coal	tonnes	1 839 000	2 075 000	2 221 000	2 026 000	1 989 000
Feldspar	tonnes	—	10 000	13 000	—	—
Gold, mine	kilograms	92	198	346	534	398
Gypsum (a)	tonnes	151 000	152 000	131 000	87 000	88 000
Iron ore	tonnes	570 000	392 000	—	—	—
Pig iron	tonnes	4 012 000	3 529 000	3 019 000	3 649 000	3 346 000
Crude steel	tonnes	5 082 000	4 489 000	3 747 000	4 580 000	4 236 000
Ferro-alloys						
Ferro-silico-manganese	tonnes	71 587	59 940	32 000	34 960	25 023
Ferro-silicon	tonnes	8 583	10 844	4 600	26 419	31 845
Other ferro-alloys	tonnes	74 065	61 194	22 250	38 860	23 497
Kaolin	tonnes	46 000	44 000	10 000	—	4 000
Magnesite	tonnes	957 000	806 500	477 600	650 100	751 700
Perlite	tonnes	20 000	25 000	25 000	23 000	23 000
Crude petroleum	tonnes	23 000	21 000	19 000	16 000	18 000
Natural gas	million m ³	195	111	114	106	106
Salt	tonnes	117 000	109 510	41 000	—	—
Silver, mine	kilograms (metal content)	50	198	201	320	330
Talc	tonnes	—	—	—	7 000	7 000

Notes

(1) Slovakia is also believed to produce sulphur

(a) Including anhydrite

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates (a)	tonnes	* 744 000	* 1 388 000	* 768 000	* 598 000	* 615 008
Aluminium and bauxite						
Unwrought	tonnes	61 319	44 845	77 013	44 989	40 011
Unwrought alloys	tonnes	118 286	129 771	110 484	111 769	118 485
Scrap	tonnes	10 421	10 109	9 441	10 260	14 044
Barytes	tonnes	9 174	685	6 309	641	230
Bentonite	tonnes	89 517	79 936	65 429	32 981	85 760
Cement						
Cement clinkers	tonnes	30 800	53 871	127 016	69 366	44 607
Portland cement	tonnes	1 346 692	1 622 292	1 344 258	1 396 241	1 795 235
Other cement	tonnes	85 987	144 311	217 328	21 660	10
Chromium						
Metal	tonnes	1 116	1 299	424	777	83
Coal						
Anthracite	tonnes	11 889	5 515	2 927	725	6 198
Other coal	tonnes	14 711	366 200	105 417	5 128	2 552
Lignite	tonnes	28 096	59 568	7 477	55	908

Slovakia

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Scrap	tonnes	23 502	21 144	15 114	15 550	19 522
Unwrought, unrefined	tonnes	24 446	28 392	26 251	7 431	11 508
Unwrought, refined	tonnes	9 786	6 749	3 721	27 576	32 017
Diamond						
Dust	Carats	...	...	100	6 250 000	2 934 017
Gold						
Metal	kilograms	4 178	2 914	3 196	2 926	20 000
Waste and scrap	kilograms	1 600	800	1 200	7 300	6 800
Iron ore	tonnes	4 353	53 434	5 923	62 568	22 481
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 588	20 676	29 779	70 588	26 976
Ferro-chrome	tonnes	9 530	10 830	4 029	10 029	11 189
Ferro-manganese	tonnes	49 723	48 747	19 204	14 032	10 229
Ferro-silico-manganese	tonnes	62 898	55 873	37 792	35 764	28 660
Ferro-molybdenum	tonnes	49	222	119	78	2 416
Ferro-silicon	tonnes	16 437	21 352	15 823	19 656	31 004
Other ferro-alloys	tonnes	4 025	4 384	1 129	3 390	3 226
Ingots, blooms, billets	tonnes	508 620	241 811	255 917	631 135	221 697
Scrap	tonnes	404 401	525 777	318 290	556 952	651 135
Kaolin	tonnes	12 546	593	1 425	4 493	552
Magnesite and magnesite						
Magnesite (a)	tonnes	* 6 000	* 9 300	* 7 400	* 8 400	* 4 900
Magnesia	tonnes	444 539	409 295	261 876	336 786	340 612
Nickel						
Scrap	tonnes	116	1 061	140	295	1 368
Unwrought	tonnes	72	259	201	68	84
Crude petroleum	tonnes	22 172	18 159	14 932	13 048	15 359
Natural gas	tonnes	124 820	112 328	334 205	1 153 269	1 439 467
Platinum metals						
Platinum and platinum metals	kilograms	15	45 800	1 700	5 800	84 100
Potash						
Potassic fertilisers	tonnes	1 407	434	74	51	580
Salt	tonnes	51 517	62 133	4 606	45 056	27 935
Silver						
Metal	kilograms	35 036	6 061	2 700	39 100	15 100
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	75 817	71 373	72 613	72 910	82 785
Talc	tonnes	1 494	1 994	45	47	38
Tin						
Unwrought	tonnes	20	107	(b) 9	(b) 8	11
Titanium						
Metal	tonnes	5	76	3	49	24
Zinc						
Unwrought	tonnes	16 356	14 600	12 871	7 903	2 836
Unwrought alloys	tonnes	7 147	10 412	11 365	13 075	7 001

Notes

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

(b) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	633 400	755 496	692 609	666 380	527 259
Aluminium and bauxite						
Bauxite	tonnes	7 524	5 778	5 443	4 233	6 136
Alumina	tonnes	311 914	311 891	288 753	270 786	232 187
Unwrought (a)	tonnes	52 718	41 681	27 853	42 273	232 187
Scrap	tonnes	8 748	4 638	1 760	2 098	3 181
Bentonite	tonnes	7 145	8 987	5 890	6 416	26 935
Cement						
Cement clinkers	tonnes	52 608	94 510	13 076	6 380	9 706
Portland cement	tonnes	123 589	172 555	284 457	256 358	281 910
Other cement	tonnes	58 035	93 031	56 060	34 733	102 134
Chromium						
Ores and concentrates	tonnes	16 819	11 969	2 533	4 546	5 542
Coal						
Anthracite	tonnes	176 682	258 597	264 286	293 054	713 105
Other coal	tonnes	4 802 258	4 253 530	3 828 520	3 078 570	3 110 255
Lignite	tonnes	725 586	983 151	693 786	563 021	534 118
Briquettes	tonnes	5 813	6 733	7 877	12 799	14 836
Cobalt						
Metal	tonnes	37	1 020	19	7	7
Oxides	tonnes	0	0	5 327	137	97
Copper						
Matte and cement	tonnes	...	...	3 300	799	10
Unwrought	tonnes	1 557	4 120	4 685	6 153	7 531
Scrap	tonnes	17 476	17 350	29 141	40 347	30 687
Diamond						
Gem, cut	Carats	£ 88 000	£ 2 924 000	£ 1 993 000	£ 2 530 000	£ 2 720 000
Industrial	Carats	64	10 817	* 2 600	55 000	1 037 208
Dust	Carats	...	...	59 781	18 560 000	129 250
Diatomite	tonnes	549	577	901	784	415
Feldspar	tonnes	27 548	24 788	16 352	5 886	5 590
Fluorspar	tonnes	908	1 143	644	954	762
Gold						
Metal	kilograms	92 400	74 800	208 400	220 470	189 400
Graphite	tonnes	2 246	2 981	962	1 899	1 688
Gypsum						
Crude	tonnes	88 083	111 188	53 104	74 512	80 966
Calcined	tonnes	29 894	47 044	52 703	16 732	17 194
Iron ore	tonnes	5 853 880	4 802 516	4 499 385	5 796 813	5 103 229
Iron, steel and ferro-alloys						
Pig iron	tonnes	59 778	70 034	19 468	33 258	43 874
Sponge and powder	tonnes	52 697	* 143 700	4 090	13 227	7 294
Ferro-chrome	tonnes	9 818	7 539	2 635	6 829	6 684
Ferro-silico-magnesium	tonnes	3 289	3 507	640	1 626	957
Ferro-manganese	tonnes	20 410	19 503	16 912	13 202	16 391
Ferro-silico-manganese	tonnes	977	2 776	2 720	1 776	4 904
Ferro-niobium	tonnes	906	897	154	315	426
Ferro-silicon	tonnes	26 142	23 747	14 970	15 250	12 660
Ferro-titanium and ferro-silico-titanium	tonnes	355	367	315	535	435
Other ferro-alloys	tonnes	230	1 534	792	485	1 150
Silicon metal	tonnes	6 004	6 391	4 460	6 309	7 196
Ingots, blooms, billets	tonnes	20 708	18 953	54 781	10 020	24 162
Scrap	tonnes	257 815	217 558	164 985	224 868	146 065
Kaolin	tonnes	87 956	95 911	58 509	62 748	70 451
Magnesite and magnesia						
Magnesite	tonnes	3 520	3 401	2 906	3 916	4 960
Magnesia	tonnes	36 768	40 675	12 731	28 639	27 100
Manganese						
Ores and concentrates	tonnes	253 048	211 653	74 712	146 434	130 519
Metal	tonnes	313	350	395	442	659
Mercury	kilograms	3 400	5 200	4 500	4 700	27 700
Molybdenum						
Metal	tonnes	5	24	106	1	2
Nickel						
Scrap	tonnes	4	11	—	52	312
Unwrought (a)	tonnes	139	190	120	112	617
Crude petroleum	tonnes	6 141 203	5 778 688	5 787 725	5 555 541	5 988 119

Slovakia

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Natural gas	tonnes	4 249 360	4 640 012	4 820 301	5 765 254	5 747 975
Phosphate rock	tonnes	267	251	258	1 688	1 662
Platinum metals						
Platinum	kilograms	348 975	1 573 351	1 533 869	1 625 761	2 662 700
Palladium	kilograms	35	58	1 191	2 702	4 400
Potash						
Chloride	tonnes	29 828	29 496	4 597	22 561	24 631
Other potassic fertilisers	tonnes	2 601	2 366	689	2 913	2 260
Rare earths						
Rare earth compounds	tonnes	8	5	8	8	10
Salt	tonnes	182 234	189 268	168 211	266 329	244 787
Sillimanite minerals	tonnes	3 299	1 919	1 812	2 456	2 917
Silver						
Metal	kilograms	12 200	8 200	9 000	55 300	* 47 000
Sulphur and pyrites						
Sulphur	tonnes	4 339	4 553	2 462	3 855	3 173
Sulphur, sublimed and precipitated	tonnes	753	1 518	1 046	864	1 510
Talc	tonnes	1 344	2 448	1 030	719	380
Tin						
Unwrought (a)	tonnes	2 260	2 276	2 059	2 087	2 120
Titanium						
Titanium minerals	tonnes	17 242	...	0	0	1
Metal	tonnes	250	329	130	956	2 271
Oxides	tonnes	2 193	2 389	2 949	2 109	2 409
Tungsten						
Metal	tonnes	17	55	43	366	5 398
Zinc						
Unwrought (a)	tonnes	44 959	41 003	28 863	37 266	34 536

Note

(a) Including alloys

Slovenia

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	21 548 000	19 171 000	15 720 000	12 965 000	* 10 690 653
Crushed rock	tonnes	14 279 253	14 982 560	13 609 728	12 072 532	9 626 791
Primary aluminium	tonnes	111 016	83 300	35 148	40 177	75 300
Bentonite	tonnes	130	160	104	135	168
Cement						
Cement, finished	tonnes	* 1 300 000	* 1 300 000	* 1 000 000	* 1 000 000	* 1 000 000
Coal						
Lignite	tonnes	4 037 766	4 008 440	3 921 746	4 010 930	4 066 278
Brown coal	tonnes	483 417	488 828	510 769	419 466	435 800
Crude steel	tonnes	638 000	642 000	430 000	606 000	648 000
Ferro-alloys						
Ferro-silicon	tonnes	* 6 000	* —	* —	* —	* —
Lead, refined	tonnes	15 000	15 000	14 000	14 000	15 000
Crude petroleum	tonnes	344	174	138	233	263
Natural gas	million m ³	3	3	3	7	2
Salt	tonnes	3 029	535	2 924	59	4 291

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	437 208	402 033	451 012	488 256	426 686
Aluminium and bauxite						
Bauxite	tonnes	8 013	450	2 537	6 665	5 738
Alumina	tonnes	243 062	258 238	242 215	239 729	161 747
Unwrought alloys	tonnes	123 041	88 038	61 800	78 619	95 251
Scrap	tonnes	30 132	26 863	23 382	33 972	39 961
Cement						
Cement clinkers	tonnes	2	1	—	42 475	140 361
Portland cement	tonnes	55 803	77 656	96 736	168 056	200 615
Other cement	tonnes	156 183	227 400	97 258	4 731	988
Chromium						
Metal	tonnes	4	111	14	123	174
Coal						
Lignite	tonnes	2 150	377	4 615	...	—
Cobalt						
Metal	tonnes	31	24	50	65	33
Copper						
Unwrought	tonnes	163	244	1 376	7 042	5 847
Scrap	tonnes	17 810	15 606	17 991	29 276	22 126
Gold						
Metal	kilograms	1 300	3 000	129	168	523
Waste and scrap	kilograms	—	—	200	5 450	12 200
Gypsum						
Crude and calcined	tonnes	36 039	8 575	6 575	205	220
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 942	24 639	4 412	10 507	21 823
Ferro-chrome	tonnes	3 263	3 419	3 648	5 320	4 757
Ferro-manganese	tonnes	1 366	1 090	1 056	1 769	1 317
Ferro-silico-manganese	tonnes	2 939	1 243	1 938	5 959	4 268
Ferro-silicon	tonnes	15 277	20 826	6 628	7 280	13 397
Ferro-titanium and ferro-silico-titanium	tonnes	722	521	50	124	123
Other ferro-alloys	tonnes	1 595	6 243	3 297	4 214	4 554
Silicon metal	tonnes	1 875	1 149	3 049	5 568	4 753
Ingots, blooms, billets	tonnes	31 849	21 006	12 296	17 320	39 269
Scrap	tonnes	245 869	199 016	284 958	343 716	409 401

Slovenia

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Lead						
Unwrought	tonnes	8 860	6 960	6 891	8 090	6 008
Scrap	tonnes	1 415	391	325	566	160
Lithium						
Carbonate	tonnes	110	122	128	88	91
Magnesite and magnesia						
Magnesia	tonnes	257	421	344	334	259
Nickel						
Unwrought (a)	tonnes	232	268	117	1 544	520
Natural gas	tonnes	34 212	24 368	3	—	—
Phosphate rock	tonnes	109 350	164 848	56 973	153 182	164 440
Platinum metals						
Platinum and platinum metals	kilograms	84	110	400	—	...
Salt	tonnes	18 280	20 590	15 671	21 711	33 998
Silver						
Metal	kilograms	5 200	8 800	1 600	3 100	3 600
Titanium						
Metal	tonnes	37	40	23	171	346
Oxides	tonnes	55 867	55 110	57 866	61 637	53 015
Zinc						
Unwrought (a)	tonnes	1 557	1 937	1 469	2 725	918
Scrap	tonnes	873	975	517	933	832
Zirconium						
Concentrates	tonnes	509	202	22	25	—

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	3 113 823	1 424 240	1 165 083	771 814	486 627
Aluminium and bauxite						
Bauxite	tonnes	63 229	40 006	13 966	41 846	42 555
Alumina	tonnes	466 163	438 579	302 520	328 453	322 872
Alumina hydrate	tonnes	28 628	27 121	20 629	27 252	26 173
Unwrought	tonnes	65 589	67 405	62 162	87 848	65 523
Unwrought alloys	tonnes	58 215	50 389	34 530	65 950	71 318
Scrap	tonnes	52 338	51 319	37 677	51 159	52 860
Antimony						
Metal	tonnes	110	71	50	36	150
Arsenic						
Metallic arsenic	tonnes	11	—	3	...	11
Barytes	tonnes	585	596	530	457	609
Bentonite	tonnes	4 048	3 976	4 421	4 191	4 790
Bismuth						
Metal	tonnes	90	60	24	49	63
Cement						
Cement clinkers	tonnes	145 638	5 783	60	129	95 704
Portland cement	tonnes	328 312	326 096	297 617	328 563	334 053
Other cement	tonnes	17 037	4 618	17 414	17 328	8 237
Chromium						
Ores and concentrates	tonnes	986	999	1 005	1 912	966
Metal	tonnes	85	313	143	104	97
Coal						
Hard coal (a)	tonnes	83 100	74 508	33 143	26 873	30 629
Lignite	tonnes	567 139	833 308	507 013	544 523	515 659
Cobalt						
Metal	tonnes	96	93	149	141	110
Copper						
Unwrought	tonnes	2 809	2 649	2 826	8 369	7 062
Scrap	tonnes	10 431	9 687	11 452	22 407	12 350
Diamond						
Dust	Carats	1 670 284	1 395 416	723 391	1 656 306	1 423 460
Diatomite	tonnes	686	644	550	718	623

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Feldspar	tonnes	6 877	6 576	8 899	14 954	13 168
Fluorspar	tonnes	1 017	1 326	1 064	1 754	1 463
Gold						
Metal	kilograms	600	1 700	400	1 100	1 700
Waste and scrap	kilograms	100	9	1 210	5 400	5 600
Graphite	tonnes	108	141	89	295	844
Gypsum						
Crude	tonnes	38 588	24 660	5 565	942	785
Calcined	tonnes	7 936	8 622	9 432	7 615	6 218
Iron, steel and ferro-alloys						
Pig iron	tonnes	102 973	68 153	24 031	29 120	25 327
Sponge and powder	tonnes	1 420	1 311	1 053	1 225	1 630
Ferro-chrome	tonnes	23 645	25 665	15 951	26 575	36 528
Ferro-silico-magnesium	tonnes	2 052	3 418	1 682	2 388	2 375
Ferro-manganese	tonnes	6 061	5 663	4 157	6 175	5 763
Ferro-silico-manganese	tonnes	4 789	3 373	3 467	8 810	7 697
Ferro-molybdenum	tonnes	569	540	410	717	885
Ferro-nickel	tonnes	2 364	538	...	...	42
Ferro-silicon	tonnes	14 017	24 651	11 335	13 114	15 739
Other ferro-alloys	tonnes	2 862	1 984	899	1 687	1 883
Silicon metal	tonnes	7 654	6 536	4 929	7 874	8 318
Ingots, blooms, billets	tonnes	11 479	12 930	1 568	8 191	31 931
Scrap	tonnes	363 362	367 968	281 950	495 432	561 713
Kaolin	tonnes	28 363	25 682	20 776	27 287	28 779
Lead						
Unwrought	tonnes	12 761	14 103	13 036	16 025	17 594
Scrap	tonnes	5 191	1 556	1 985	3 812	3 611
Lithium						
Oxides	tonnes	144	186	139	95	125
Magnesite and magnesia	tonnes	8 117	8 272	4 346	7 279	64 675
Manganese						
Metal	tonnes	388	438	264	433	420
Molybdenum						
Ores and concentrates	tonnes	876	690	292	561	523
Nickel						
Unwrought (b)	tonnes	967	2 686	2 020	2 967	3 230
Natural gas	tonnes	807 877	750 581	748 930	828 674	736 641
Phosphate rock	tonnes	109 768	164 872	56 969	153 160	164 442
Rare earths						
Metals	tonnes	139	88	55	98	26
Salt	tonnes	148 352	190 017	239 191	317 999	235 663
Silver						
Metal	kilograms	27 800	45 000	17 800	24 100	29 700
Sulphur and pyrites						
Pyrites	tonnes	612	683	353	645	836
Sulphur	tonnes	53 434	56 381	53 615	57 411	56 490
Sulphur, sublimed and precipitated	tonnes	1	...	...	...	...
Talc	tonnes	5 301	12 860	13 756	10 793	4 489
Tin						
Unwrought (b)	tonnes	101	87	69	118	70
Titanium						
Titanium minerals	tonnes	14 903	34 930	32 789	25 081	54 387
Metal	tonnes	348	257	233	400	964
Oxides	tonnes	3 500	3 296	2 889	2 917	2 884
Titanium slag	tonnes	53 245	65 180	66 818	...	39 644
Zinc						
Unwrought	tonnes	16 696	14 881	16 766	15 314	14 495
Unwrought alloys	tonnes	11 711	8 938	6 180	5 850	7 374
Zirconium						
Concentrates	tonnes	550	548	227	330	273

Notes

(a) Including anthracite

(b) Including alloys

Spain

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	143 000 000	118 000 000	96 000 000	72 000 000	* 52 000 000
Crushed rock	tonnes	280 000 000	214 000 000	160 000 000	170 000 000	* 130 000 000
Alumina	tonnes (Al ₂ O ₃ content)	1 300 000	1 300 000	* 1 300 000	* 1 300 000	* 1 300 000
Primary aluminium	tonnes	405 100	405 800	334 600	335 000	335 000
Barytes	tonnes	26 770	11 100	5 212	2 050	—
Bentonite and fuller's earth						
Bentonite	tonnes	147 253	154 534	147 090	157 001	110 721
Attapulgite	tonnes	24 615	27 348	21 110	27 841	26 031
Sepiolite	tonnes	717 728	737 659	573 937	557 862	566 270
Bromine	kilograms	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Cement						
Cement, clinker	tonnes	32 045 543	27 304 551	21 594 604	21 234 637	* 17 500 000
Cement, finished	tonnes	54 720 445	42 088 110	29 504 574	26 217 200	* 20 000 000
Coal						
Anthracite	tonnes	3 485 083	3 152 550	4 306 033	3 212 603	2 489 797
Bituminous	tonnes	4 387 416	4 085 652	2 898 340	2 776 918	1 774 991
Sub-bituminous	tonnes	3 128 081	2 890 230	2 493 577	2 428 877	2 357 557
Lignite	tonnes	6 112 946	—	—	—	—
Copper, mine	tonnes (metal content)	6 281	7 071	17 663	54 335	67 983
Copper, refined	tonnes	308 372	319 050	329 356	347 518	353 790
Copper, smelter	tonnes	257 348	259 897	264 971	259 119	260 730
Crude steel	tonnes	18 998 000	18 640 000	14 358 000	16 343 000	15 504 000
Diatomite (a)	tonnes	45 480	46 192	29 194	64 346	83 624
Feldspar	tonnes	683 134	690 256	597 496	691 894	* 650 000
Fluorspar	tonnes	155 197	148 736	122 533	132 341	117 333
Gypsum	tonnes	14 535 422	11 955 753	8 181 315	6 990 249	* 7 100 000
Pig iron	tonnes	3 976 000	3 784 000	2 920 000	3 572 000	3 540 000
Ferro-alloys						
Ferro-manganese	tonnes	* 155 000	* 163 000	* 68 000	* 152 000	* 152 000
Ferro-silico-manganese	tonnes	* 153 000	* 160 000	* 67 000	* 150 000	* 150 000
Ferro-silicon	tonnes	* 71 000	* 74 000	* 44 000	* 64 400	* 64 000
Silicon metal	tonnes	* 32 000	* 33 000	* 23 000	* 32 500	* 33 000
Kaolin (b)	tonnes	489 428	355 739	270 298	310 993	302 580
Lead, mine	tonnes (metal content)	—	—	1 000	300	5 705
Lead, refined	tonnes	128 000	145 000	138 000	163 000	172 000
Lithium minerals						
Lepidolite	tonnes	10 326	9 342	4 270	7 824	* 7 800
Magnesite	tonnes	464 498	442 339	390 311	462 959	577 725
Mica (c)	tonnes	5 569	4 254	3 655	4 034	3 775
Nickel, mine	tonnes (metal content)	6 630	8 136	8 029	6 296	—
Crude petroleum	tonnes	142 879	127 542	106 817	121 528	99 926
Natural gas	million cubic metres	42	46	19	58	44
Potash						
Chloride	tonnes (K ₂ O content)	531 739	472 952	481 455	418 778	436 026
Salt						
Rock salt	tonnes	2 709 545	2 909 907	2 763 081	3 115 940	* 3 200 000
Sea salt	tonnes	1 332 360	1 290 672	1 338 789	1 242 718	1 171 435
Other salt	tonnes	102 524	102 149	99 853	92 644	91 735
Silver, mine	kilograms (metal content)	—	—	2 200	20 800	29 900
Strontium minerals	tonnes	142 512	138 590	57 466	83 035	97 102
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	543 000	551 000	533 000	547 000	490 000
Recovered (e)	tonnes (sulphur content)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Talc	tonnes	78 042	59 299	47 218	51 897	11 957
Tungsten, mine	tonnes (metal content)	—	194	284	303	425
Wollastonite	tonnes	10 918	10 100	7 000	6 000	7 417
Zinc, mine	tonnes (metal content)	—	—	5 900	17 323	33 197
Slab zinc	tonnes	509 000	466 000	515 000	517 100	527 100

See notes on next page.

Notes

(1) Spain is also believed to produce arsenic

(a) Including Tripoli

(b) Washed

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

(d) From metal sulphide processing

(e) From petroleum refining and/or natural gas

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	2 042 075	1 478 362	1 060 445	1 153 923	1 306 103
Aluminium and bauxite						
Bauxite	tonnes	6 057	5 623	4 951	3 628	2 038
Alumina	tonnes	539 739	671 009	612 933	299 703	391 516
Alumina hydrate	tonnes	199 679	236 855	163 303	126 398	186 543
Unwrought	tonnes	15 999	39 359	19 816	26 693	19 248
Unwrought alloys	tonnes	125 008	123 577	230 539	148 884	175 112
Scrap	tonnes	34 520	109 493	46 307	66 976	51 518
Antimony						
Metal	tonnes	17	143	62	19	50
Oxide	tonnes	246	1 023	894	1 716	1 784
Barytes	tonnes	31 693	33 676	29 776	32 427	34 285
Bentonite and fuller's earth						
Bentonite	tonnes	72 278	75 287	1 021 034	66 118	54 449
Sepiolite	tonnes	474 788	460 485	418 644	...	...
Bismuth						
Metal	tonnes	32	19	14	9	9
Bromine	kilograms	418 531	2 000	2 578	15 627	86 311
Cement						
Cement clinkers	tonnes	37 343	907 694	1 181 783	1 545 705	1 590 245
Portland cement	tonnes	1 358 857	1 474 428	1 411 588	2 768 457	2 577 325
Other cement	tonnes	46 348	63 825	74 007	87 864	184 099
Chromium						
Ores and concentrates	tonnes	1 529	1 073	1 022	600	1 252
Metal	tonnes	779	1 165	516	665	237
Coal						
Anthracite	tonnes	101 968	186 293	123 114	337 930	337 833
Other coal	tonnes	872 269	1 636 071	1 252 923	1 149 991	851 716
Briquettes	tonnes	...	21 735	193	599	250
Cobalt						
Oxides	tonnes	56	7	33	19	14
Copper						
Ores and concentrates	tonnes	905	463	110 724	221 429	583 874
Scrap	tonnes	88 429	83 820	100 498	102 236	87 122
Unwrought, unrefined	tonnes	37 210	41 676	38 761	33 973	37 314
Unwrought, refined	tonnes	48 288	85 899	108 716	151 204	86 800
Unwrought alloys	tonnes	12 679	12 139	12 150	15 881	15 809
Diamond						
Unsorted	Carats	£346 000	£503 000	£266 000	£292 000	£154 000
Gem, cut	Carats	£8 478 000	£6 631 000	£5 328 000	£7 350 000	£9 802 000
Industrial	Carats	£208 000	£498 000	£171 000	£210 000	£590 000
Dust	Carats	254 600	400 810	182 628	689 563	8 454 551
Diatomite	tonnes	6 399	5 306	4 678	7 382	6 637
Feldspar	tonnes	74 461	79 120	56 161	69 337	71 959
Fluorspar	tonnes	29 117	13 109	35 366	1 680	3 312
Gold						
Metal	kilograms	23 667	6 966	31 466	282 816	9 444 195
Waste and scrap	kilograms	92	1 147	131 376	258 156	176 652
Graphite	tonnes	8 728	10 499	8 160	5 369	6 142
Gypsum						
Crude	tonnes	3 335 273	3 458 773	2 187 816	2 678 208	3 367 083
Calcined	tonnes	274 781	228 060	182 982	165 424	156 461
Iodine	kilograms	7 689	46 873	15 376	14 704	7 909
Iron ore (a)	tonnes	75 567	62 147	17 348	9 079	165 589

Spain

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Iron, steel and ferro-alloys						
Pig iron	tonnes	12 491	9 747	4 772	2 998	7 023
Sponge and powder	tonnes	6 404	4 763	2 566	2 658	3 233
Ferro-chrome	tonnes	2 461	4 768	367	1 025	1 181
Ferro-manganese	tonnes	71 345	65 330	29 403	52 296	37 866
Ferro-silico-manganese	tonnes	33 636	34 307	25 859	58 097	65 469
Ferro-molybdenum	tonnes	70	45	242	359	7
Ferro-silicon	tonnes	18 323	9 562	5 939	12 854	12 952
Other ferro-alloys	tonnes	6 044	393	208	2 191	2 326
Silicon metal	tonnes	16 175	16 008	5 571	18 463	21 864
Ingots, blooms, billets	tonnes	91 085	310 671	261 758	337 566	194 482
Scrap	tonnes	162 371	214 913	302 465	277 401	431 394
Kaolin	tonnes	199 541	155 563	156 915	167 811	161 156
Lead						
Ores and concentrates	tonnes	130	1 015	14 147	9 513	24 608
Unwrought	tonnes	9 242	14 771	13 434	6 630	15 683
Scrap	tonnes	7 023	6 616	3 862	6 781	5 029
Lithium						
Carbonate	tonnes	192	128	228	175	268
Magnesite and magnesia						
Magnesite	tonnes	607	725	2 167	410	573
Magnesia	tonnes	185 364	175 307	156 027	224 590	259 493
Manganese						
Ores and concentrates	tonnes	1 299	518	21 456	707	623
Metal	tonnes	5 783	4 562	3 386	1 297	1 735
Mercury	kilograms	779 110	639 203	376 885	964 922	824 421
Mica						
Unmanufactured	tonnes	2 473	1 259	563	1 339	1 823
Ground	tonnes	1 089	1 368	1 521	2 269	2 193
Molybdenum						
Metal	tonnes	3	18	68	243	14
Nickel						
Ores and concentrates	tonnes	65 853	127 812	102 105	93 536	26 597
Scrap	tonnes	227	226	875	366	376
Unwrought (b)	tonnes	767	600	573	738	400
Crude petroleum (c)	tonnes	* 2 400	* 24 000	* 400	* 164 000	* 300
Natural gas	tonnes	31 159	—	61 433	200 027	555 012
Phosphate rock	tonnes	7 840	4 754	1 565	1 888	10 985
Platinum metals						
Platinum and platinum metals	kilograms	434	3 104	1 672	2 347	1 255
Waste and scrap	kilograms	44	88 069	225 411	291 877	163 420
Potash						
Sulphate	tonnes	1 795	1 251	2 540	6 474	3 713
Chloride	tonnes	163 891	360 538	319 549	609 607	688 599
Other potassic fertilisers	tonnes	998	1 895	1 352	2 365	2 385
Rare earths						
Metals	tonnes	...	50	—	97	51
Cerium compounds	tonnes	63	8	13	51	62
Other rare earth compounds	tonnes	2	17	5	34	32
Salt	tonnes	463 791	646 288	862 994	1 318 019	1 311 651
Silver						
Ores and concentrates	kilograms	1 608	—	30	377	9 847
Metal	kilograms	13 637	379 675	233 084	417 381	383 412
Sulphur and pyrites						
Sulphur	tonnes	77 220	116 213	198 585	138 168	361 188
Sulphur, sublimed and precipitated	tonnes	244	338	523	612	289
Talc	tonnes	39 689	51 180	29 580	11 206	28 980
Tin						
Unwrought (b)	tonnes	98	433	427	513	449
Scrap	tonnes	460	447	2 038	376	4 543
Titanium						
Titanium minerals	tonnes	232	155	25 892	2 405	650
Metal	tonnes	1 431	947	1 018	1 928	1 698
Oxides	tonnes	91 583	58 342	33 721	35 233	48 870
Tungsten						
Ores and concentrates	tonnes	0	286	457	400	981
Metal	tonnes	177	223	156	315	880

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Vanadium						
Pentoxide	tonnes	5	4	26	22	774
Zinc						
Ores and concentrates	tonnes	98 359	121 688	40 118	82 009	122 429
Unwrought	tonnes	220 002	191 897	216 633	318 527	351 354
Unwrought alloys	tonnes	66 155	92 781	62 544	91 054	35 318
Scrap	tonnes	5 295	6 210	26 675	37 362	15 625
Zirconium						
Concentrates	tonnes	11 803	14 151	13 581	28 166	29 952
Metal	tonnes	200	525	746	51	3

Notes

(a) Including burnt pyrites

(b) Including alloys

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

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 396 928	1 035 555	889 156	982 128	677 289
Aluminium and bauxite						
Bauxite	tonnes	3 547 201	3 618 306	3 509 294	3 325 099	3 080 295
Alumina	tonnes	53 579	50 417	22 239	31 527	61 184
Alumina hydrate	tonnes	49 451	41 614	30 522	29 317	22 917
Unwrought	tonnes	122 303	82 512	95 461	119 589	110 612
Unwrought alloys	tonnes	328 314	281 270	162 026	229 036	219 925
Scrap	tonnes	123 074	110 745	63 517	111 942	125 190
Antimony						
Ores and concentrates	tonnes	164	154	55	103	29
Metal	tonnes	1 676	1 987	1 478	2 642	2 450
Oxide	tonnes	1 146	899	493	516	494
Arsenic						
Metallic arsenic	tonnes	116	192	48	96	93
Asbestos						
Unmanufactured	tonnes	50	21	—	—	6
Barytes	tonnes	65 569	71 025	30 503	106 611	70 896
Bentonite	tonnes	104 057	103 602	72 993	108 066	146 344
Bismuth						
Metal	tonnes	190	212	52	141	99
Bromine	kilograms	77 578	169 159	75 099	222 746	250 417
Cadmium						
Metal	tonnes	0	21	118	153	38
Cement						
Cement clinkers	tonnes	10 894 888	5 496 563	2 079 944	1 342 279	490 164
Portland cement	tonnes	2 929 208	1 729 088	694 757	637 322	450 416
Other cement	tonnes	74 401	58 007	73 362	14 516	15 894
Chromium						
Ores and concentrates	tonnes	6 437	6 721	4 031	5 579	9 262
Metal	tonnes	1 393	1 219	1 192	1 878	2 350
Coal						
Anthracite	tonnes	1 019 341	957 293	767 027	846 015	852 813
Other coal	tonnes	23 420 766	20 010 533	15 967 793	10 983 379	15 315 861
Cobalt						
Metal	tonnes	121	131	135	144	159
Oxides	tonnes	1 187	1 038	1 035	1 543	1 837
Copper						
Ores and concentrates	tonnes	1 001 284	1 122 093	1 184 321	1 229 148	1 482 354
Matte and cement	tonnes	75	...	21	992	17 530
Scrap	tonnes	56 754	65 765	68 166	82 931	89 499
Unwrought, unrefined	tonnes	1 032	3 733	3 133	518	12 747
Unwrought, refined	tonnes	56 237	79 125	80 898	73 904	62 695
Unwrought alloys	tonnes	5 417	4 352	3 473	3 947	6 719

Spain

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Diamond						
Unsorted	Carats	£3 667 000	£1 959 000	£1 591 000	£1 814 000	£3 864 000
Gem, cut	Carats	£57 921 000	£40 012 000	£30 290 000	£26 488 000	£25 312 000
Industrial	Carats	£1 396 000	£1 485 000	£917 000	£275 000	£605 000
Dust	Carats	67 062 395	42 938 192	30 861 760	27 500 320	27 699 364
Diatomite	tonnes	9 447	8 861	9 600	8 191	7 989
Feldspar	tonnes	1 407 350	1 410 760	664 830	856 406	993 378
Fluorspar	tonnes	29 560	32 016	17 148	12 008	14 198
Gold						
Metal	kilograms	6 641	* 72 000	68 562	44 542	46 695
Waste and scrap	kilograms	2 352	252	109	2 780	29 069
Graphite	tonnes	15 582	24 284	15 669	34 268	10 765
Gypsum						
Crude	tonnes	53 028	43 171	25 963	20 776	13 185
Calcined	tonnes	14 129	33 825	7 349	6 015	5 787
Iodine	kilograms	582 029	541 706	512 821	342 914	522 768
Iron ore (a)	tonnes	6 117 047	6 479 890	4 237 845	5 874 304	5 143 562
Iron, steel and ferro-alloys						
Pig iron	tonnes	652 786	688 421	380 731	442 656	315 904
Sponge and powder	tonnes	611 893	621 627	295 665	636 496	640 549
Ferro-chrome	tonnes	1 123 216	203 518	113 275	164 125	152 254
Ferro-silico-magnesium	tonnes	7 289	9 890	5 818	7 705	10 705
Ferro-manganese	tonnes	24 599	17 126	13 357	19 930	15 256
Ferro-silico-manganese	tonnes	48 205	74 962	50 683	39 895	36 803
Ferro-molybdenum	tonnes	5 863	3 777	3 756	6 446	6 943
Ferro-nickel	tonnes	75 625	68 355	43 936	47 389	43 284
Ferro-niobium	tonnes	8 283	685	553	983	1 334
Ferro-phosphorus	tonnes	2 554	1 488	193	1 425	1 816
Ferro-silicon	tonnes	71 487	46 445	27 140	27 581	29 894
Ferro-titanium and Ferro-silico-titanium	tonnes	1 276	1 006	611	1 203	1 120
Ferro-vanadium	tonnes	1 189	1 122	809	1 088	1 094
Other ferro-alloys	tonnes	82	4 378	360	1 909	5 508
Silicon metal	tonnes	3 640	8 856	9 523	8 446	11 801
Ingots, blooms, billets	tonnes	1 733 247	1 587 605	1 007 820	1 269 577	1 061 766
Scrap	tonnes	6 316 516	7 408 237	4 674 099	5 708 900	4 764 338
Kaolin	tonnes	1 571 143	1 470 440	757 859	1 061 732	1 055 122
Lead						
Ores and concentrates	tonnes	8 188	7 107	3 199	10 946	6 722
Unwrought	tonnes	157 485	116 492	121 522	110 217	114 380
Scrap	tonnes	42 629	35 506	35 703	43 432	42 236
Lithium						
Oxides	tonnes	600	501	521	1 007	698
Carbonate	tonnes	1 811	3 908	2 825	3 239	3 423
Magnesite and magnesia						
Magnesite	tonnes	4 092	2 839	10 029	3 926	6 164
Magnesia	tonnes	117 867	143 849	42 980	94 840	97 566
Manganese						
Ores and concentrates	tonnes	349 131	640 677	54 606	407 450	508 794
Metal	tonnes	9 563	10 033	3 994	7 510	10 951
Mercury	kilograms	906 297	337 117	467 614	335 852	54 748
Mica	tonnes	1 871	952	1 467	1 183	1 534
Molybdenum						
Ores and concentrates	tonnes	4 622	3 787	1 724	2 585	3 572
Metal	tonnes	113	189	236	239	83
Nickel						
Ores and concentrates	tonnes	42 232	1	5	5	1
Scrap	tonnes	250	120	236	151	806
Unwrought	tonnes	21 202	22 668	12 290	16 468	17 567
Unwrought alloys	tonnes	1 426	1 547	821	1 125	966
Oxides	tonnes	94	151	50	329	323
Crude petroleum	tonnes	57 773 847	59 444 410	52 331 324	52 714 224	51 960 524
Natural gas	tonnes	27 048 984	32 044 466	28 024 572	27 795 263	27 529 122
Phosphate rock	tonnes	1 653 874	1 611 494	438 755	1 017 820	377 348
Platinum metals						
Platinum and platinum metals (b)	kilograms	* 4 500	* 3 900	* 3 000	* 3 500	* 3 000
Waste and scrap	kilograms	4 111	8 947	29 448	29 183	17 845

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Potash						
Sulphate	tonnes	5 547	40 911	21 022	40 507	39 133
Chloride	tonnes	199 403	194 656	71 444	211 595	257 920
Other potassic fertilisers	tonnes	25	3 548	3 721	1 607	1 283
Rare earths						
Metals	tonnes	95	274	108	421	9
Cerium compounds	tonnes	580	444	443	543	636
Other rare earth compounds	tonnes	255	270	140	216	102
Ferro-cerium and other pyrophoric alloys	tonnes	40	15	19	41	33
Salt	tonnes	33 691	97 348	81 729	85 807	111 597
Sillimanite minerals						
Sillimanite minerals	tonnes	25 985	26 903	19 824	27 611	32 091
Mullite	tonnes	1 807	8 006	1 824	4 934	6 153
Silver						
Ores and concentrates	kilograms	58 344	75 633	66 088	11 317	17 131
Metal	kilograms	126 668	1 547 747	754 262	1 513 257	828 017
Sulphur and pyrites						
Pyrites	tonnes	2 585	1 903	958	1 160	476
Sulphur	tonnes	152 566	153 575	24 015	68 214	44 724
Sulphur, sublimed and precipitated	tonnes	265	372	187	229	176
Talc	tonnes	96 298	85 942	81 043	82 425	88 655
Tantalum and niobium						
Tantalum	tonnes	112	—	3	1	...
Tin						
Unwrought	tonnes	7 093	7 313	5 457	6 410	5 967
Unwrought alloys	tonnes	167	261	243	172	428
Scrap	tonnes	185	376	441	2 410	5 386
Titanium						
Ilmenite	tonnes	121 898	119 467	26 512	...	...
Other titanium minerals	tonnes	22 037	9 133	522	(c) 111 298	(c) 123 284
Metal	tonnes	3 450	3 131	1 735	2 627	3 673
Oxides	tonnes	123 132	138 275	93 267	91 822	90 581
Titanium slag	tonnes	2 164	10 004	...	...	...
Tungsten						
Ores and concentrates	tonnes	1	11	147	44	15
Metal	tonnes	914	731	681	426	216
Carbide	tonnes	41	31	13	25	51
Vanadium						
Ores and concentrates	tonnes	48	9	22	...	...
Pentoxide	tonnes	45	43	50	115	52
Zinc						
Ores and concentrates	tonnes	1 257 304	1 114 634	909 078	1 003 388	977 695
Unwrought	tonnes	21 634	26 779	16 091	7 583	16 841
Unwrought alloys	tonnes	17 411	15 000	9 230	15 627	11 050
Scrap	tonnes	6 601	7 396	3 127	10 935	23 205
Zirconium						
Concentrates	tonnes	138 442	152 604	95 103	149 442	143 493
Metal	tonnes	65	136	83	132	97

Notes

(a) Including burnt pyrites

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

(c) Includes Ilmenite

Sweden

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	20 036 785	18 804 343	14 400 000	* 17 000 000	* 17 000 000
Crushed rock	tonnes	64 047 058	66 757 671	57 500 000	* 57 000 000	* 57 000 000
Primary aluminium	tonnes	99 842	81 913	69 708	93 000	111 000
Cement						
Cement, clinker	tonnes	1 712 626	1 881 054	1 702 019	1 790 784	* 1 750 000
Cement, finished	tonnes	2 950 000	* 2 950 000	* 2 900 000	* 2 900 000	* 2 900 000
Copper, mine	tonnes (metal content)	62 905	57 688	55 414	76 514	82 967
Copper, refined	tonnes	213 894	227 774	205 759	190 497	219 316
Copper, smelter	tonnes	203 100	203 700	183 400	181 500	206 100
Feldspar	tonnes	25 000	22 000	18 000	22 000	30 000
Gold, mine	kilograms	5 159	4 953	5 542	6 285	5 994
Iron ore	tonnes	24 714 000	23 888 000	17 677 000	25 292 000	26 113 000
Pig iron	tonnes	3 947 000	3 708 000	1 966 000	3 447 000	3 240 000
Crude steel	tonnes	5 672 900	5 197 600	2 803 700	4 845 600	4 867 000
Ferro-alloys						
Ferro-chrome	tonnes	124 400	118 700	31 100	64 400	80 140
Ferro-silicon	tonnes	4 300	—	—	—	—
Lead, mine	tonnes (metal content)	63 224	63 489	69 293	67 697	62 028
Lead, refined	tonnes	69 730	56 812	51 574	59 179	52 438
Selenium minerals	tonnes	126	139	129	72	* 70
Silver	kilograms (metal content)	323 171	293 068	288 590	302 145	301 959
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	177 000	199 600	186 100	179 833	202 289
Recovered (b)	tonnes (sulphur content)	66 569	84 456	83 646	83 947	92 973
Talc	tonnes	7 000	4 000	4 000	4 000	3 000
Zinc, mine	tonnes (metal content)	214 576	187 987	192 502	198 687	194 021

Notes

(a) From metal sulphide processing

(b) From petroleum refining and/or natural gas

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	2 307 614	3 049 601	1 867 320	2 248 515	1 624 154
Aluminium and bauxite						
Alumina	tonnes	14 278	13 919	14 464	19 037	13 870
Unwrought	tonnes	735	6 307	2 143	195	735
Unwrought alloys	tonnes	89 591	89 190	145 554	190 394	182 946
Scrap	tonnes	107 946	106 581	89 940	88 070	95 632
Antimony						
Metal	tonnes	1	15	489	4	—
Bentonite	tonnes	12 240	11 640	5 588	3 457	3 300
Bismuth						
Metal	tonnes	0	1	106	11	1
Cadmium						
Oxide	tonnes	322	448	305	360	429
Cement						
Cement clinkers	tonnes	32	217	577 571	505 585	267 884
Portland cement	tonnes	845 235	723 793	482 223	467 559	590 443
Other cement	tonnes	15 237	14 082	7 166	5 819	7 120
Chromium						
Metal	tonnes	102	225	100	191	167
Cobalt						
Metal	tonnes	152	67	285	220	99

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Copper						
Ores and concentrates	tonnes	...	49	—	24	8 010
Unwrought	tonnes	66 232	70 047	77 745	71 394	92 971
Scrap	tonnes	54 673	57 245	55 603	43 311	58 031
Unwrought, refined	tonnes	...	70 047	...	...	...
Unwrought alloys	tonnes	8 837	5 610	3 181	8 563	5 615
Diatomite	tonnes	3 497	749	693	829	1 098
Feldspar	tonnes	14 383	10 670	7 646	11 251	19 258
Fluorspar	tonnes	7 764	11 538	6 745	8 101	11 053
Gold						
Metal	kilograms	17 800	19 400	14 500	14 700	12 900
Waste and scrap	kilograms	65 700	29 400	60 900	5 100	21 000
Graphite	tonnes	273	252	159	254	129
Gypsum						
Crude and calcined	tonnes	12 694	11 525	9 358	8 155	3 865
Iodine	kilograms	48	122	300	700	900
Iron ore	tonnes	19 033 842	17 617 162	16 104 129	20 726 152	21 115 203
Iron, steel and ferro-alloys						
Pig iron	tonnes	152 911	62 588	141 261	146 027	133 387
Sponge and powder	tonnes	26 666	19 844	296 251	12 335	313 081
Ferro-chrome	tonnes	2 247	3 534	35 886	51 010	2 752
Ferro-silico-magnesium	tonnes	1 260	...	50	17	5
Ferro-manganese and ferro-silico-manganese	tonnes	3 859	3 620	2 423	3 517	3 581
Ferro-molybdenum	tonnes	304	301	193	340	375
Ferro-phosphorus	tonnes	1 128	1 370	364	582	448
Ferro-silicon	tonnes	2 892	2 616	3 004	6 905	6 903
Ferro-vanadium	tonnes	135	112	250	50	57
Other ferro-alloys	tonnes	216	895	280	481	660
Silicon metal	tonnes	1 474	2 458	968	2 337	1 274
Ingots, blooms, billets	tonnes	134 568	102 086	58 631	261 273	235 814
Scrap	tonnes	1 069 335	1 449 311	1 439 126	1 352 399	1 484 197
Kaolin	tonnes	18 229	30 495	31 122	23 103	16 444
Lead						
Ores and concentrates	tonnes	56 581	61 439	72 220	111 153	73 996
Unwrought	tonnes	65 733	53 715	46 795	55 501	54 370
Scrap	tonnes	734	816	1 044	1 445	1 471
Magnesite and magnesia						
Magnesia	tonnes	1 593	235	380	303	165
Nickel						
Scrap	tonnes	5 344	1 513	1 376	1 022	1 137
Unwrought (a)	tonnes	390	288	522	497	599
Oxides	tonnes	457	511	363	534	516
Natural gas	tonnes	51	—	961	21	6 159
Phosphate rock	tonnes	1 623	4 897	1 228	125	2 253
Platinum metals						
Platinum and platinum metals	kilograms	£900 000	£851 000	£177 000	£429 000	£1 203 000
Waste and scrap	kilograms	242 500	575 300	40 400	69 000	43 600
Potash						
Sulphate	tonnes	84 414	53 883	59 252	93 796	84 381
Salt	tonnes	12 601	10 444	10 025	12 742	13 297
Silver						
Ores and concentrates	kilograms	59 400	...	—	...	...
Metal	kilograms	364 500	521 200	476 300	412 900	428 500
Sulphur and pyrites						
Sulphur	tonnes	5 168	5 525	3 018	2 768	3 980
Sulphur, sublimed and precipitated	tonnes	10 959	13 128	12 242	11 564	10 344
Talc	tonnes	9 415	9 227	8 032	9 014	8 308
Tin						
Unwrought (a)	tonnes	201	213	122	163	52
Scrap	tonnes	161	96	63	27	71
Titanium						
Metal	tonnes	2 667	1 002	717	925	1 086
Oxides	tonnes	17 047	19 992	15 921	20 567	18 331

Sweden

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Tungsten						
Ores and concentrates	tonnes	3 192	75	96	—	21
Metal	tonnes	234	328	431	289	218
Carbide	tonnes	446	436	253	401	186
Zinc						
Ores and concentrates	tonnes	405 682	389 473	395 616	362 085	374 501
Scrap	tonnes	2 777	2 898	1 840	2 900	3 257
Zirconium						
Metal	tonnes	83	144	118	90	137

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	1 068 840	864 988	355 022	533 148	802 173
Aluminium and bauxite						
Bauxite	tonnes	30 099	18 761	10 755	6 660	10 460
Alumina	tonnes	43 101	161 638	109 806	211 393	266 978
Alumina hydrate	tonnes	94 218	95 834	81 026	95 073	77 121
Unwrought	tonnes	46 431	47 534	39 248	35 506	22 371
Unwrought alloys	tonnes	159 628	144 343	124 277	188 198	175 194
Scrap	tonnes	36 838	40 125	30 093	48 508	47 458
Antimony						
Metal	tonnes	546	166	58	17	10
Oxide	tonnes	319	293	203	219	227
Arsenic						
Metallic arsenic	tonnes	12	6	6	7	6
Barytes	tonnes	6 504	6 371	3 346	4 406	4 224
Bentonite	tonnes	184 313	178 308	120 079	200 422	214 173
Bismuth						
Metal	tonnes	5	12	6	12	2
Bromine	kilograms	2 800	31 700	3 100	4 200	4 300
Cadmium						
Metal	tonnes	491	851	588	825	1 127
Oxide	tonnes	25	83	42	107	172
Cement						
Cement clinkers	tonnes	29 344	37 009	10 434	36 629	58 132
Portland cement	tonnes	55 784	61 891	29 482	348 431	419 332
Other cement	tonnes	52 359	50 333	37 308	36 399	42 002
Chromium						
Ores and concentrates	tonnes	350 000	337 933	64 955	—	—
Metal	tonnes	2 145	12 782	4 396	4 999	6 598
Coal						
Anthracite	tonnes	25 832	36 163	20 373	48 767	38 136
Other coal	tonnes	3 154 331	2 811 668	1 831 397	3 236 437	2 971 646
Briquettes	tonnes	287	9 029	33	43	52
Cobalt						
Metal	tonnes	676	698	189	396	571
Copper						
Ores and concentrates	tonnes	420 050	393 295	362 803	302 514	300 878
Scrap	tonnes	81 015	91 839	96 542	108 971	121 099
Unwrought, unrefined	tonnes	10 495	23 539	22 072	3 100	5 843
Unwrought, refined	tonnes	31 535	21 123	23 107	46 383	31 760
Unwrought alloys	tonnes	5 867	5 239	2 040	5 181	3 186
Diamond						
Unsorted	Carats	£ 141 000	£ 100 000	£ 23 000	£ 125 000	£ 105 000
Gem, cut	Carats	9 465	10 938	8 709	9 615	12 118
Industrial	Carats	224 486	217 127	6 907	26 277	5 930
Dust	Carats	11 500 000	4 000 000	1 500 000	8 000 000	9 500 000
Diatomite	tonnes	6 976	6 929	6 082	8 099	8 247
Feldspar	tonnes	6 021	3 861	4 268	6 410	4 363
Fluorspar	tonnes	12 089	14 214	12 959	9 451	14 980

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Gold						
Metal	kilograms	£18 292 000	£25 583 000	£26 296 000	£32 625 000	£42 028 000
Waste and scrap	kilograms	£ 112 000	£ 565 000	£ 53 000	£ 12 243 000	£ 33 337 000
Graphite	tonnes	1 592	1 091	835	1 315	1 129
Gypsum						
Crude	tonnes	244 986	178 364	94 656	256 696	324 584
Calcined	tonnes	146 638	154 201	158 842	73 865	58 751
Iodine	kilograms	5 000	600	400	1 100	1 800
Iron ore						
Iron ore	tonnes	69 911	71 441	41 087	55 078	51 334
Burnt pyrites	tonnes	26	—	2 919	16 743	24 561
Iron, steel and ferro-alloys						
Pig iron	tonnes	59 661	80 450	40 076	58 974	78 818
Sponge and powder	tonnes	16 799	11 861	2 691	11 668	24 398
Ferro-chrome	tonnes	125 057	114 712	78 244	90 630	74 988
Ferro-silico-chrome	tonnes	3 104	3 873	1 215	1 805	4 133
Ferro-silico-magnesium	tonnes	5 986	8 916	2 154	2 445	1 837
Ferro-manganese	tonnes	75 409	68 246	27 869	60 577	57 927
Ferro-silico-manganese	tonnes	17 085	10 677	5 754	9 099	11 586
Ferro-molybdenum	tonnes	4 377	5 693	2 652	4 388	4 723
Ferro-nickel	tonnes	9 162	6 803	3 286	7 995	10 119
Ferro-niobium	tonnes	1 242	1 264	604	1 146	1 544
Ferro-phosphorus	tonnes	1 331	386	430	415	632
Ferro-silicon	tonnes	42 315	34 249	25 880	37 424	37 743
Ferro-titanium and ferro-silico-titanium	tonnes	691	1 370	653	1 127	1 459
Ferro-vanadium	tonnes	1 005	956	547	729	1 058
Other ferro-alloys	tonnes	105	153	30	76	77
Silicon metal	tonnes	6 756	7 631	4 404	6 818	5 375
Ingots, blooms, billets	tonnes	137 032	264 782	119 549	193 605	203 669
Scrap	tonnes	242 167	193 207	174 279	217 682	245 225
Kaolin	tonnes	448 129	468 491	408 564	367 948	389 358
Lead						
Ores and concentrates	tonnes	—	275	—	14 763	—
Unwrought	tonnes	6 554	6 922	5 028	5 340	5 783
Scrap	tonnes	3 771	2 089	5 176	9 464	8 401
Lithium						
Oxides	tonnes	107	146	149	214	243
Carbonate	tonnes	236	278	191	87	69
Magnesite and magnesia						
Magnesite	tonnes	477	38	2	84	114
Magnesia	tonnes	17 556	14 701	15 832	12 004	20 425
Manganese						
Ores and concentrates	tonnes	130	388	854	522	438
Metal	tonnes	3 012	3 287	1 880	3 815	5 241
Mercury	kilograms	10 600	13 800	21 300	2 700	2 400
Mica	tonnes	584	755	721	673	545
Molybdenum						
Ores and concentrates	tonnes	7 003	4 645	2 514	5 487	5 893
Metal	tonnes	281	442	470	644	360
Oxides	tonnes	780	711	219	414	357
Nickel						
Mattes, sinters etc	tonnes	4 252	1 490	1 607	1 239	1 723
Scrap	tonnes	9 118	12 215	8 709	10 491	10 332
Unwrought	tonnes	25 303	25 474	16 544	23 375	23 191
Unwrought alloys	tonnes	356	1 317	661	397	216
Crude petroleum	tonnes	17 719 046	19 184 387	16 818 080	18 236 284	17 988 419
Natural gas	tonnes	749 162	647 510	860 497	1 066 174	899 467
Phosphate rock	tonnes	2 369	922	2 918	3 869	12 968
Platinum metals						
Platinum and platinum metals	kilograms	£6 109 000	£8 722 000	£5 934 000	£7 551 000	£8 430 000
Waste and scrap	kilograms	731 700	13 800	80 200	1 500	19 800
Potash						
Sulphate	tonnes	1 004	2 872	965	1 789	2 551
Chloride	tonnes	27 470	15 689	4 769	55 671	79 863
Other potassic fertilisers	tonnes	4 886	4 735	4 211	5 858	9 276

Sweden

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Rare earths						
Metals	tonnes	74	46	28	37	48
Cerium compounds	tonnes	50	59	47	47	55
Other rare earth compounds	tonnes	6	8	8	7	9
Salt	tonnes	744 328	875 294	910 606	905 190	933 936
Sillimanite minerals	tonnes	6 381	5 212	2 395	4 782	5 174
Silver						
Ores and concentrates	kilograms	21 000	(a)* 2 466 000	2 330 100	...	...
Metal	kilograms	162 900	122 200	85 300	83 700	90 900
Sulphur and pyrites						
Pyrites	tonnes	750	691	544	874	825
Sulphur	tonnes	94 449	78 784	21 772	56 961	65 296
Sulphur, sublimed and precipitated	tonnes	4	112	143	200	145
Talc	tonnes	48 746	45 801	28 459	25 998	22 202
Tin						
Unwrought (b)	tonnes	720	555	364	435	189
Titanium						
Titanium minerals	tonnes	1 032	995	726	1 854	645
Metal	tonnes	2 623	2 391	1 593	1 936	2 390
Oxides	tonnes	65 872	61 890	53 071	61 191	62 054
Tungsten						
Metal	tonnes	546	588	175	179	302
Carbide	tonnes	876	904	233	1 308	2 050
Zinc						
Unwrought	tonnes	21 570	29 211	29 750	37 524	30 598
Unwrought alloys	tonnes	22 600	12 059	2 691	5 905	6 282
Scrap	tonnes	1 697	1 696	1 208	226	336
Zirconium						
Concentrates	tonnes	825	832	248	419	368
Metal	tonnes	219	185	218	220	120

Notes

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

(b) Including alloys

Switzerland

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	* 50 000 000	* 37 000 000	* 37 000 000	* 37 000 000	* 40 000 000
Crushed rock	tonnes	* 5 700 000	* 5 000 000	* 5 000 000	* 5 000 000	* 5 000 000
Cement						
Cement, finished (a)	tonnes	4 252 574	4 238 311	4 333 096	4 553 077	4 687 138
Gypsum	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Crude steel	tonnes	1 264 000	1 312 000	934 000	1 320 000	* 1 400 000
Lead, refined	tonnes	* 9 000	* 8 000	800	—	—
Salt	tonnes	353 000	368 000	554 000	643 000	478 324

Note

(a) Includes production in Liechtenstein

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	486 288	202 846	194 006	193 312	188 183
Aluminium and bauxite						
Alumina	tonnes	281	5 767	1 240	854	341
Unwrought (a)	tonnes	22 645	9 938	14 444	20 954	23 397
Scrap	tonnes	139 599	125 769	116 520	131 819	138 643
Asbestos						
Unmanufactured	tonnes	290	120	30	42	17
Cement						
Cement clinkers	tonnes	114 075	91 167	70 207	6 983	104
Portland cement	tonnes	13 704	35 925	15 044	103 952	63 262
Other cement	tonnes	4 014	9 009	4 062	2 959	51
Cobalt						
Metal	tonnes	94	120	70	80	97
Copper						
Unwrought	tonnes	1 002	1 159	623	832	1 030
Scrap	tonnes	75 542	82 687	71 204	75 973	84 373
Diamond						
Gem, rough	Carats	4 360	7 888	1 230	14 892	3 628
Gem, cut	Carats	559 591	582 240	252 685	357 976	435 272
Industrial	Carats	12 100	34 058	7 139	7 902	8 978
Dust	Carats	40 985 000	44 105 000	30 400 000	60 980 000	70 880 000
Gold						
Metal	kilograms	1 095 682	2 103 919	1 010 085	1 605 359	1 867 822
Waste and scrap	kilograms	102 745	125 459	107 918	105 407	94 837
Graphite	tonnes	384	600	355	326	100
Gypsum						
Crude and calcined	tonnes	2 754	5 207	2 454	8 536	8 606
Iodine	kilograms	1 205	1 605	97	349	239
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	2 537	2 126	1 564	2 191	981
Ferro-alloys	tonnes	653	642	943	1 191	1 299
Ingots, blooms, billets	tonnes	104 433	65 257	48 349	66 642	85 201
Scrap	tonnes	585 342	636 462	565 415	623 910	630 837
Kaolin	tonnes	786	128	203	287	55
Lead						
Unwrought	tonnes	7 383	7 387	1 765	230	19
Scrap	tonnes	4 860	3 236	4 748	5 497	5 732
Lithium						
Oxides	tonnes	75	88	2 041	190	1
Mercury	kilograms	140 336	11 592	25 372	8 529	53 581
Nickel						
Scrap	tonnes	1 750	1 603	1 519	1 090	909
Unwrought (a)	tonnes	113	94	53	173	130

Switzerland

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Platinum metals						
Platinum	kilograms	57 569	69 404	61 433	72 006	63 853
Palladium	kilograms	52 880	86 503	57 571	70 662	60 859
Other Platinum metals	kilograms	636	717	192	464	494
Waste and scrap	kilograms	393 326	616 867	362 419	314 061	289 174
Rare earths						
Cerium compounds	tonnes	2	1	1	2	9
Other rare earth compounds	tonnes	3	1	26	1	1
Salt	tonnes	55 916	37 772	68 947	67 537	71 525
Silver						
Metal	kilograms	1 201 402	1 444 198	916 560	1 456 475	1 779 063
Sulphur and pyrites						
Sulphur	tonnes	0	335	4 837	5 310	4 864
Tin						
Unwrought (a)	tonnes	112	114	87	60	16
Scrap	tonnes	123	76	136	118	131
Titanium						
Metal	tonnes	868	987	734	805	868
Oxides	tonnes	1 133	1 276	1 203	1 466	1 666
Tungsten						
Metal	tonnes	392	400	239	476	398
Zinc						
Unwrought (a)	tonnes	679	1 078	524	415	258
Scrap	tonnes	2 408	2 445	2 574	2 582	2 846

Note

(a) Including alloys

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	7 371 907	7 256 472	7 246 506	8 010 059	8 566 572
Aluminium and bauxite						
Bauxite	tonnes	5 850	12 439	8 360	6 718	11 898
Alumina	tonnes	10 745	11 036	9 074	10 662	9 957
Alumina hydrate	tonnes	17 875	17 235	15 269	20 697	19 131
Unwrought	tonnes	136 214	127 018	108 096	148 099	166 853
Unwrought alloys	tonnes	78 916	62 962	50 341	84 113	70 200
Scrap	tonnes	32 716	31 728	23 195	33 341	36 829
Antimony						
Oxide	tonnes	1 461	1 328	793	1 108	1 131
Barytes	tonnes	2 843	3 644	2 605	3 020	3 156
Bentonite	tonnes	21 334	21 876	20 407	20 362	19 316
Bismuth						
Metal	tonnes	8	12	12	25	18
Cement						
Cement clinkers	tonnes	15 292	8 596	27 649	74 946	46 117
Portland cement	tonnes	348 262	361 305	364 034	465 699	538 979
Other cement	tonnes	37 522	30 908	36 464	49 549	73 361
Chromium						
Ores and concentrates	tonnes	1 339	1 510	974	1 051	809
Metal	tonnes	114	134	38	74	71
Coal						
Anthracite	tonnes	9 539	18 721	5 444	7 164	7 144
Other coal	tonnes	214 684	132 824	172 990	124 096	92 473
Lignite	tonnes	84 654	80 814	66 483	62 756	69 378
Briquettes	tonnes	3 908	3 986	4 933	3 328	2 887
Cobalt						
Metal	tonnes	454	386	243	318	298
Copper						
Unwrought	tonnes	5 960	5 903	3 473	3 229	2 353
Scrap	tonnes	7 995	5 266	2 710	6 061	4 178
Unwrought alloys	tonnes	4 089	3 925	3 276	4 137	3 520

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Diamond						
Gem, rough	Carats	8 634	11 566	4 498	20 460	3 263
Gem, cut	Carats	1 209 708	1 147 690	534 700	840 245	870 000
Dust	Carats	59 930 000	54 445 000	39 130 000	74 015 000	101 250 000
Diatomite	tonnes	4 636	4 864	5 071	5 758	4 642
Feldspar	tonnes	8 056	7 653	6 478	6 593	6 124
Fluorspar	tonnes	533	571	370	492	210
Gold						
Metal	kilograms	1 667 100	2 101 027	2 198 967	2 343 070	2 684 244
Waste and scrap	kilograms	57 001	214 839	319 257	219 260	205 846
Graphite	tonnes	966	931	306	848	823
Gypsum						
Crude	tonnes	93 365	101 731	101 228	112 555	94 474
Calcined	tonnes	95 000	97 296	87 350	100 958	104 574
Iodine	kilograms	18 136	7 260	7 156	10 238	10 839
Iron ore						
Iron ore	tonnes	7 800	6 145	1 445	5 382	12 537
Burnt pyrites	tonnes	7 826	12 559	15 045	15 171	14 916
Iron, steel and ferro-alloys						
Pig iron	tonnes	28 095	28 630	12 256	16 812	17 969
Sponge and powder	tonnes	9 685	8 873	5 931	6 668	4 812
Ferro-chrome	tonnes	1 834	1 803	288	1 480	1 846
Ferro-manganese	tonnes	9 922	11 696	8 003	11 566	9 721
Ferro-silico-manganese	tonnes	5 992	5 011	1 595	3 767	4 948
Ferro-silicon	tonnes	5 287	5 264	4 287	5 014	5 937
Ferro-vanadium	tonnes	72	52	82	548	544
Other ferro-alloys	tonnes	1 406	1 034	529	876	982
Silicon metal	tonnes	1 508	1 255	1 256	1 385	1 661
Ingots, blooms, billets	tonnes	50 301	29 911	9 188	18 026	61 349
Scrap	tonnes	475 542	505 597	313 055	452 626	456 700
Kaolin	tonnes	45 629	39 932	33 555	24 249	21 460
Lead						
Unwrought	tonnes	7 087	9 915	9 446	5 664	2 838
Lithium						
Oxides	tonnes	142	143	110	118	141
Magnesite and magnesia						
Magnesite	tonnes	1 024	69	502	362	793
Magnesia	tonnes	7 144	7 772	4 762	4 625	4 917
Manganese						
Ores and concentrates	tonnes	415	472	340	214	333
Metal	tonnes	778	472	282	556	509
Mercury	kilograms	6 687	3 557	801	1 370	471
Mica	tonnes	3 021	1 088	669	1 226	866
Nickel						
Unwrought (a)	tonnes	1 787	2 054	1 202	1 370	1 199
Crude petroleum	tonnes	4 595 181	5 141 634	4 755 189	4 534 930	4 302 674
Natural gas	tonnes	2 402 267	2 596 153	2 450 414	2 759 930	2 521 494
Phosphate rock	tonnes	4 645	358	585	3 657	20 007
Platinum metals						
Platinum	kilograms	43 113	67 022	91 048	49 089	57 415
Palladium	kilograms	46 744	60 666	50 258	41 454	43 310
Other Platinum metals	kilograms	913	1 255	1 319	813	873
Waste and scrap	kilograms	267 258	494 962	688 973	912 680	459 360
Potash						
Sulphate	tonnes	5 259	4 685	3 967	4 914	5 899
Chloride	tonnes	19 279	15 158	7 595	16 865	14 730
Other potassic fertilisers	tonnes	2 504	2 861	1 676	2 049	1 159
Rare earths						
Metals	tonnes	1	...	1	4	5
Cerium compounds	tonnes	21	16	15	31	18
Other rare earth compounds	tonnes	13	18	15	16	12
Ferro-cerium and other pyrophoric alloys	tonnes	...	6	44	...	5
Salt	tonnes	8 913	8 988	70 386	37 731	58 307
Sillimanite minerals	tonnes	1 035	1 128	527	1 162	1 596
Silver						
Ores and concentrates (b)	kilograms	* 39 800	* 9 600	* 100 900	* 55 800	15 107 700
Metal	kilograms	849 037	1 520 531	2 136 092	1 746 243	2 155 625

Switzerland

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Sulphur and pyrites						
Sulphur	tonnes	20 982	17 425	12 086	17 414	13 072
Talc	tonnes	10 360	8 756	7 987	8 490	7 666
Tin						
Unwrought (a)	tonnes	1 241	1 093	800	863	737
Titanium						
Metal	tonnes	1 352	1 168	862	971	1 081
Oxides	tonnes	20 455	19 550	17 086	19 725	22 198
Tungsten						
Metal	tonnes	257	272	105	143	226
Zinc						
Unwrought	tonnes	14 473	13 715	9 431	15 521	12 747
Unwrought alloys	tonnes	2 700	2 471	1 549	2 276	2 158

Notes

(a) Including alloys

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

Turkey

Production

Commodity	Units	2007	2008	2009	2010	2011
Bauxite	tonnes	863 404	818 928	406 700	855 000	* 600 000
Alumina	tonnes (Al ₂ O ₃ content)	163 435	* 160 000	* 100 000	* 160 000	* 100 000
Primary aluminium	tonnes	63 400	61 100	30 000	54 100	56 400
Antimony, mine	tonnes (metal content)	* 1 200	* 1 300	* 1 300	* 1 300	* 1 300
Barytes	tonnes	150 000	150 000	213 187	225 000	225 000
Bentonite and fuller's earth						
Bentonite	tonnes	748 170	683 253	753 155	718 260	379 918
Sepiolite	tonnes	* 10 000	* 10 000	* 10 000	* 10 000	—
Borates	tonnes	1 997 163	2 139 224	1 687 102	1 910 000	2 273 122
Cement						
Cement, clinker	tonnes	39 363 683	41 652 824	41 084 368	54 222 939	* 54 000 000
Cement, finished	tonnes	50 995 107	54 027 283	55 741 176	70 800 657	* 71 000 000
Chromium ores and concentrates	tonnes	1 678 932	1 885 712	1 770 029	2 461 314	2 281 981
Coal						
Anthracite	tonnes	3 230 787	3 343 409	3 773 603	6 312 137	5 619 316
Lignite	tonnes	74 316 728	86 074 626	82 263 104	86 943 392	89 805 602
Copper, mine	tonnes (metal content)	81 000	83 000	87 070	81 500	95 000
Copper, refined	tonnes	99 600	88 000	33 500	47 300	85 000
Copper, smelter	tonnes	17 900	38 000	—	—	35 600
Feldspar	tonnes	6 000 000	6 500 000	4 000 000	6 281 597	4 477 993
Gold, mine	kilograms	9 920	11 016	14 450	16 400	23 248
Graphite	tonnes	—	3 236	2 400	—	—
Gypsum	tonnes	3 241 177	7 338 127	4 369 589	2 850 601	991 415
Iron ore	tonnes	4 549 556	3 990 110	4 169 972	5 378 455	5 754 426
Pig iron	tonnes	6 235 537	6 697 372	6 913 325	16 362 115	17 235 903
Crude steel	tonnes	25 760 889	26 809 050	25 303 741	29 029 789	34 107 000
Ferro-alloys						
Ferro-chrome	tonnes	69 730	75 840	41 028	* 60 000	* 60 000
Ferro-silico-chrome	tonnes	6 624	6 094	2 903	* 3 000	* 3 000
Kaolin	tonnes	456 238	232 746	234 614	787 287	* 650 000
Lead, mine	tonnes (metal content)	20 800	31 800	21 600	38 500	39 500
Lead, refined	tonnes	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
Magnesite	tonnes	1 984 908	2 143 047	861 180	1 541 860	* 1 000 000
Mica	tonnes	3 313	8 392	4 172	* 4 500	* 4 500
Nickel, mined	tonnes (metal content)	* 2 000	* 1 500	1 199	* 1 900	* 4 300
Perlite	tonnes	478 579	551 266	522 832	737 077	429 776
Crude petroleum	tonnes	2 131 288	2 222 594	2 489 914	2 602 114	2 383 000
Natural gas	million m ³	839	894	660	626	756
Salt						
Sea salt	tonnes	* 500 000	* 500 000	* 500 000	* 500 000	* 500 000
Other salt	tonnes	2 366 000	2 472 000	3 765 564	* 4 100 000	* 4 100 000
Silver, mine	kilograms (metal content)	* 315 000	* 294 000	351 600	348 000	292 400
Strontium minerals	tonnes	* 4 200	* 1 600	—	—	—
Zinc, mine	tonnes (metal content)	140 500	126 800	136 300	196 400	158 300

Note

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

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	73 162	1 183 150	908 010	955 765	1 237 704
Aluminium and bauxite						
Bauxite	tonnes	254 689	262 708	103 317	331 458	158 232
Alumina	tonnes	40 778	25 276	1 890	190 094	96
Alumina hydrate	tonnes	101 779	93 639	75 837	2 910	21 172
Unwrought	tonnes	47 574	50 056	26 337	42 090	4 868
Unwrought alloys	tonnes	13 012	10 827	9 368	36 994	38 640
Scrap	tonnes	13 415	16 218	14 483	14 291	12 020
Antimony						
Ores and concentrates	tonnes	819	1 000	1 408	2 765	2 977
Asbestos						
Unmanufactured	tonnes	990	685	—	3	1
Barytes	tonnes	115 039	123 485	121 744	175 497	144 238
Bentonite	tonnes	22 237	244 177	250 082	307 891	319 189
Cement						
Cement clinkers	tonnes	1 539 287	2 558 779	3 856 403	2 792 332	2 472 979
Portland cement	tonnes	4 323 666	11 010 951	16 356 895	15 842 398	11 750 755
Other cement	tonnes	124 395	150 785	245 770	415 763	315 159
Chromium						
Ores and concentrates	tonnes	1 265 036	1 816 427	1 748 194	2 256 387	2 161 001
Metal	tonnes	7	122	2 667	184	1 930
Coal						
Anthracite	tonnes	1 694	1 043	194	717	5 210
Other coal	tonnes	2 224	55 510	1 715	37 319	802
Lignite	tonnes	11 819	13 980	6 253	4 554	43 942
Copper						
Ores and concentrates	tonnes	36 046	251 958	356 922	421 536	257 914
Unwrought	tonnes	6 219	34 910	4 505	2 106	2 845
Scrap	tonnes	8 920	9 670	16 426	12 426	5 124
Unwrought alloys	tonnes	5 594	6 869	2 237	6 764	10 135
Diamond						
Dust	Carats	466 500	3 494 000	1 000 025	1 253 750	7 702 486
Diatomite	tonnes	34 424	40 370	39 267	37 432	28 104
Feldspar (a)	tonnes	* 4 300 000	* 4 600 000	* 2 500 000	* 3 400 000	* 3 500 000
Gold						
Metal	kilograms	12 068	142 244	162 208	56 035	30 226
Waste and scrap	kilograms	...	1 122	1 188	619	1 360
Graphite	tonnes	13	390	257	220	761
Gypsum						
Crude	tonnes	43 195	37 899	145 717	134 905	111 864
Calcined	tonnes	544 954	838 314	643 873	682 898	708 056
Iodine	kilograms	11 098	1 212	31 908	2 960	4 877
Iron ore	tonnes	(b) 3 947	4 163	(b) 3 361	(b) 200 600	(b) 296 550
Iron, steel and ferro-alloys						
Pig iron	tonnes	—	10 372	10 616	8 028	9 357
Sponge and powder	tonnes	—	520	219	1 326	7 581
Ferro-chrome	tonnes	63 209	39 324	75 236	74 570	76 255
Ferro-manganese	tonnes	3 318	2 466	1 614	4 410	3 536
Ferro-silico-manganese	tonnes	216	677	2 247	2 362	2 172
Ferro-silicon	tonnes	3 117	1 464	1 280	4 619	5 807
Other ferro-alloys	tonnes	472	1 075	1 059	507	4 886
Ingots, blooms, billets	tonnes	1 660 642	2 501 135	2 431 211	3 716 586	2 459 563
Scrap	tonnes	29 237	77 654	66 673	94 498	105 914
Kaolin	tonnes	132 834	130 923	61 828	137 963	83 203
Lead						
Ores and concentrates (c)	tonnes	34 715	52 988	35 973	64 247	65 917
Magnesite and magnesite						
Magnesite	tonnes	40 414	68 054	35 097	24 213	37 902
Magnesia	tonnes	181 870	175 441	162 651	209 633	238 620
Manganese						
Ores and concentrates	tonnes	13 007	81 280	59 183	51 731	100 172
Metal	tonnes	20	401	81	4 952	12
Mercury	kilograms	...	22 885	89	2 156	10 890
Mica	tonnes	—	840	570	601	1 039

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Nickel						
Scrap	tonnes	79	734	470	519	841
Ores and concentrates	tonnes	175 712	130 179	99 700	172 682	378 350
Unwrought (d)	tonnes	—	232	141	292	96
Crude petroleum (a)	tonnes	* 3 584 000	* 4 115 000	* 2 956 000	* 1 139 000	* 702 000
Natural gas	tonnes	5 392	412 655	665 247	590 182	(a)* 653 000
Platinum metals	kilograms	...	18	3 142	5 124	2 765
Potash						
Potassic fertilisers	tonnes	488	3 544	6 438	6 533	6 504
Rare earths						
Cerium compounds	tonnes	...	27	8	5	10
Salt	tonnes	11 164	27 393	26 223	262 050	417 596
Silver						
Metal	kilograms	10 700	20 897	170 009	144 942	202 886
Sulphur and pyrites						
Sulphur	tonnes	7 091	21 289	6 495	279 822	56 143
Sulphur, sublimed and precipitated	tonnes	15 376	17 259	14 769	21 068	7 949
Talc	tonnes	1 742	1 636	1 712	2 865	2 711
Tin						
Unwrought (d)	tonnes	179	118	37	79	56
Titanium						
Metal	tonnes	—	49	47	85	95
Oxides	tonnes	2 489	2 607	2 237	2 650	3 170
Tungsten						
Metal	tonnes	33	99	213	139	237
Vanadium						
Pentoxide	tonnes	24	200	119	—	24
Zinc						
Ores and concentrates	tonnes	123 956	253 573	272 559	392 725	316 714
Unwrought	tonnes	155	(d) 498	(d) 451	(d) 666	(d) 1 704
Scrap	tonnes	281	468	1 929	1 536	2 997

Notes

- (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	2007	2008	2009	2010	2011
Primary aggregates	tonnes	3 843	4 590	3 636	9 372	3 487
Aluminium and bauxite						
Bauxite	tonnes	53 202	39 256	17 350	35 652	36 358
Alumina	tonnes	8 598	18 232	10 394	15 772	15 434
Alumina hydrate	tonnes	4 115	21 275	15 269	27 721	35 739
Unwrought	tonnes	296 098	327 525	358 748	460 915	553 191
Unwrought alloys	tonnes	193 702	270 871	201 124	281 588	332 228
Scrap	tonnes	5 634	16 868	14 215	24 952	25 107
Antimony						
Metal	tonnes	308	346	369	219	245
Oxide	tonnes	501	522	588	885	739
Arsenic						
Metallic arsenic	tonnes	63	71	74	55	10
Asbestos						
Unmanufactured	tonnes	2 518	585	—	—	—
Barytes	tonnes	741	455	507	342	2 863
Bentonite	tonnes	10 541	9 806	1 827	1 641	1 915
Bismuth						
Metal	tonnes	14	21	15	11	16
Bromine (a)	kilograms	28 424	6 761	6 497	8 373	11 462

Turkey

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Cement						
Cement clinkers	tonnes	1 360 090	380 516	6 053	58 176	10 511
Portland cement	tonnes	39 270	12 279	13 471	5 875	3 406
Other cement	tonnes	4 202	5 036	3 358	6 168	10 847
Chromium						
Ores and concentrates	tonnes	107 524	119 806	113 461	113 487	122 070
Metal	tonnes	60	60	54	65	108
Coal						
Anthracite	tonnes	530 393	707 425	457 575	972 425	990 996
Other coal	tonnes	13 850 371	18 781 879	19 501 679	21 048 121	22 721 500
Lignite	tonnes	...	...	...	5 339	...
Cobalt						
Metal	tonnes	176	148	125	145	171
Oxides	tonnes	142	152	150	199	277
Copper						
Ores and concentrates	tonnes	32	3 884	0	1 329	5
Scrap	tonnes	3 013	1 263	870	3 943	6 181
Unwrought, unrefined	tonnes	34 389	38 116	4 852	5 892	4 329
Unwrought, refined	tonnes	128 077	287 705	289 672	332 482	337 337
Unwrought alloys	tonnes	1 975	3 060	2 828	6 601	9 450
Diamond						
Gem	Carats	135 413	141 553	51 740	131 146	141 277
Industrial	Carats	36 999	102 596	29 724	46 890	82 417
Dust	Carats	9 835 000	18 430 000	19 120 000	25 190 000	31 125 000
Diatomite	tonnes	1 385	1 491	1 392	1 319	1 702
Feldspar	tonnes	46 323	28 594	28 166	39 953	34 726
Fluorspar	tonnes	23 139	34 073	36 114	37 977	48 210
Gold						
Metal	kilograms	155 471	179 606	52 654	64 105	128 367
Graphite	tonnes	6 095	13 230	6 788	11 191	13 138
Gypsum						
Crude and calcined	tonnes	180 159	167 572	202 523	234 495	377 085
Iodine	kilograms	8 594	9 498	12 133	3 218	6 641
Iron ore						
Iron ore	tonnes	6 925 163	5 004 508	7 757 561	7 220 977	6 644 310
Burnt pyrites	tonnes	...	17 092	14 097	—	—
Iron, steel and ferro-alloys						
Pig iron	tonnes	338 641	802 741	770 160	557 398	1 137 729
Sponge and powder	tonnes	19 801	96 393	81 008	284 608	180 591
Ferro-chrome	tonnes	11 138	11 321	2 787	8 159	9 061
Ferro-silico-magnesium	tonnes	2 627	12 008	6 047	8 137	9 552
Ferro-manganese	tonnes	56 619	73 319	46 760	61 866	59 326
Ferro-silico-manganese	tonnes	236 039	195 623	191 605	229 451	243 637
Ferro-molybdenum	tonnes	1 628	1 645	1 173	1 577	1 091
Ferro-niobium	tonnes	446	609	338	147	424
Ferro-phosphorus	tonnes	246	1 731	412	1 050	1 035
Ferro-silicon	tonnes	100 758	90 477	60 164	87 552	107 151
Ferro-titanium and ferro-silico-titanium	tonnes	616	634	651	167	480
Ferro-vanadium	tonnes	472	529	323	261	591
Other ferro-alloys	tonnes	7 015	337	13	16	205
Silicon metal	tonnes	2 530	6 207	5 852	9 978	10 363
Ingots, blooms, billets	tonnes	1 930 627	3 849 141	3 590 665	2 350 758	2 157 532
Scrap	tonnes	13 335 810	17 414 983	15 372 727	19 138 460	21 452 724
Kaolin	tonnes	163 015	402 812	301 086	424 152	497 148
Lead						
Unwrought	tonnes	46 966	79 460	73 520	73 057	85 131
Lithium						
Oxides	tonnes	245	257	208	268	261
Carbonate	tonnes	683	617	613	770	865
Magnesite and magnesia						
Magnesia	tonnes	43 360	61 519	40 595	60 121	58 556
Manganese						
Ores and concentrates	tonnes	428	2 531	540	694	1 295
Metal	tonnes	719	874	583	980	1 202
Mercury	kilograms	9	3 069	1 635	719	9 772
Mica	tonnes	293	385	477	317	508

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Molybdenum						
Ores and concentrates	tonnes	4	3	291	46	12
Metal	tonnes	8	89	16	28	34
Nickel						
Unwrought (b)	tonnes	3 710	4 038	2 711	3 391	4 047
Crude petroleum	tonnes	23 445 764	21 833 471	14 219 427	16 873 392	18 049 163
Phosphate rock	tonnes	782 996	741 190	707 595	686 966	814 382
Platinum metals	kilograms	316	463	235	200	213
Potash						
Sulphate	tonnes	57 661	33 427	11 576	34 986	28 989
Chloride	tonnes	96 038	82 412	50 634	82 923	93 471
Other potassic fertilisers	tonnes	47	398	303	1 075	109
Rare earths						
Metals	tonnes	8	9	9	14	13
Cerium compounds	tonnes	333	310	200	233	128
Other rare earth compounds	tonnes	5	5	4	13	8
Ferro-cerium and other pyrophoric alloys	tonnes	...	12	10	...	...
Salt	tonnes	35 382	257 146	99 400	154 536	254 045
Sillimanite minerals						
Sillimanite minerals	tonnes	5 886	4 255	4 891	5 466	6 907
Mullite	tonnes	1 101	5 280	3 635	12 675	10 733
Silver						
Metal	kilograms	996 239	154 639	57 700	90 064	209 909
Sulphur and pyrites						
Pyrites	tonnes	252	224	67	480	323
Sulphur	tonnes	168 952	128 685	164 034	141 478	161 866
Sulphur, sublimed and precipitated	tonnes	194	321	1 315	592	292
Talc	tonnes	18 549	17 706	14 893	20 026	26 952
Tin						
Unwrought (b)	tonnes	2 788	2 603	1 630	2 558	2 707
Titanium						
Titanium minerals	tonnes	* 9 000	7 762	5 628	7 390	9 454
Metal	tonnes	19	163	188	298	357
Oxides	tonnes	111 858	106 206	98 100	127 266	144 383
Tungsten						
Metal	tonnes	13	34	34	74	70
Zinc						
Unwrought	tonnes	136 916	147 215	137 765	182 598	201 409
Unwrought alloys	tonnes	3 775	4 091	1 714	2 876	6 504
Scrap	tonnes	1 913	1 381	181	161	44
Zirconium						
Concentrates	tonnes	980	4 844	2 918	4 823	4 770

Notes

(a) May include some fluorine

(b) Including alloys

United Kingdom

Production

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates						
Sand and gravel	tonnes	93 236 000	85 473 000	66 226 000	61 700 000	63 113 000
Crushed rock (a)	tonnes	148 534 000	127 996 000	104 626 000	94 203 000	101 928 000
Primary aluminium	tonnes	364 595	326 900	252 000	186 000	213 000
Barytes	tonnes	53 000	43 000	36 000	34 099	31 000
Cement						
Cement, clinker	tonnes	10 227 000	9 478 000	6 420 000	6 598 000	7 096 000
Cement, finished (b)	tonnes	11 887 000	10 071 000	7 623 000	7 882 000	8 529 000
Coal						
Bituminous (c)	tonnes	17 070 000	18 053 000	17 874 000	18 417 000	18 492 000
Crude steel	tonnes	14 392 300	13 520 500	10 074 500	9 708 000	9 478 000
Feldspar (d)(e)	tonnes	1 112	430	—	—	—
Fluorspar	tonnes	44 936	36 801	18 536	26 420	—
Gold	kilograms	88	163	187	177	202
Gypsum	tonnes	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Indium	tonnes	* 5	* 5	* 5	* 5	* 5
Iron ore	tonnes	* 300	145	—	—	—
Pig iron	tonnes	10 959 800	10 136 800	7 671 100	7 233 000	6 625 000
Kaolin	tonnes	1 671 426	1 355 365	1 059 848	* 1 000 000	* 1 000 000
Lead, mine (f)	tonnes (metal content)	* 300	* 300	243	251	280
Lead, refined	tonnes	263 391	283 000	301 865	297 453	274 055
Nickel, smelter/refinery	tonnes	34 050	40 800	17 800	28 900	36 300
Crude petroleum	tonnes	70 357 000	66 745 000	64 001 000	58 988 000	63 498 000
Natural gas	million m ³	76 970	74 937	63 022	59 674	47 790
Potash						
Chloride	tonnes (K ₂ O content)	430 000	403 800	* 403 800	* 403 800	* 462 000
Salt	tonnes	5 600 000	5 565 000	6 166 000	6 666 000	* 6 700 000
Silver, mine	kilograms (metal content)	212	398	514	506	531
Talc	tonnes	2 850	2 410	2 861	2 633	3 709

Notes

- (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) Great Britain only
(c) Including anthracite
(d) China stone
(e) Including weathered granite feldspar
(f) By-product of Pennine fluorspar operations and of gold mining in Northern Ireland.

Exports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	14 048 387	13 008 608	10 714 861	10 992 431	10 800 338
Aluminium and bauxite						
Bauxite	tonnes	4 276	6 121	3 873	3 140	5 936
Alumina	tonnes	9 016	9 517	16 810	5 879	5 114
Alumina hydrate (a)	tonnes	* 5 200	* 5 300	* 4 400	* 2 100	* 2 600
Unwrought	tonnes	30 631	20 690	17 688	43 665	49 959
Unwrought alloys	tonnes	269 523	265 018	305 849	364 612	356 170
Scrap	tonnes	906 831	872 988	422 574	443 466	440 399
Antimony						
Metal	tonnes	21	35	75	77	57
Oxide	tonnes	379	558	407	490	290
Barytes	tonnes	9 242	9 976	13 095	17 851	15 648
Bentonite and fuller's earth						
Bentonite	tonnes	47 122	43 261	34 622	41 323	38 478
Sepiolite	tonnes	186	226	130	...	...

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Bismuth						
Metal	tonnes	2 588	905	941	427	1 038
Bromine	kilograms	1 469 781	1 015 304	497 246	780 704	1 472 523
Cadmium						
Metal	tonnes	76	54	25	2 545	1 441
Cement						
Cement clinkers	tonnes	28 432	15 071	4 708	5 500	15 531
Portland cement	tonnes	459 629	230 920	92 628	134 223	121 537
Other cement	tonnes	88 452	93 122	51 359	56 781	62 333
Chromium						
Ores and concentrates	tonnes	178	—	32 507	297	168
Metal	tonnes	6 777	6 501	5 058	7 441	8 017
Coal						
Anthracite	tonnes	123 549	165 473	119 472	89 701	97 014
Other coal	tonnes	419 193	742 582	391 414	615 067	502 581
Briquettes	tonnes	27 591	52 605	68 226	89 125	117 025
Cobalt						
Oxides	tonnes	689	798	891	1 267	820
Metal	tonnes	2 300	2 614	2 572	1 780	1 739
Copper						
Scrap	tonnes	346 361	358 981	429 467	421 868	513 394
Unwrought, unrefined	tonnes	786	3 066	205	185	194
Unwrought, refined	tonnes	8 489	4 850	14 059	8 863	17 951
Unwrought alloys	tonnes	18 142	17 822	11 839	12 782	16 872
Diamond						
Unsorted	Carats	5 307 857	3 388 395	4 090 534	3 689 202	2 735 369
Gem, rough	Carats	84 573 134	66 479 817	43 775 775	51 769 860	41 541 219
Gem, cut	Carats	477 463	795 612	257 202	283 435	1 292 162
Industrial	Carats	4 754 029	6 121 081	4 440 922	2 478 568	3 864 054
Dust	Carats	104 552 775	122 681 695	105 427 105	113 451 535	42 269 921
Diatomite	tonnes	1 238	903	533	1 650	797
Feldspar	tonnes	40	82	369	38	34
Fluorspar	tonnes	589	187	303	412	590
Gold						
Metal	kilograms	224 598	600 018	96 231	293 153	775 261
Waste and scrap	kilograms	282 298	272 339	533 182	496 924	272 597
Graphite	tonnes	3 065	3 156	2 271	2 981	3 660
Gypsum						
Crude	tonnes	1 248	1 493	1 978	3 330	3 428
Calcined	tonnes	57 988	48 340	32 551	24 552	25 504
Iodine	kilograms	368 785	174 965	121 370	393 005	234 182
Iron ore	tonnes	(b) 5 491	(b) 7 821	32 579	(b) 5 256	(b) 179 709
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 892	2 523	27 765	4 339	2 074
Sponge and powder	tonnes	4 969	2 794	3 103	2 938	3 775
Ferro-alloys	tonnes	41 841	40 986	28 899	45 314	43 918
Ferro-chrome	tonnes	...	...	...	...	1 853
Ferro-chrome and ferro-silico-chrome	tonnes	2 973	1 385	1 524	2 425	2 217
Ferro-silico-chrome	tonnes	35	9	50	22	364
Ferro-silico-magnesium	tonnes	917	976	458	366	338
Ferro-manganese	tonnes	1 136	1 210	963	8 361	819
Ferro-silico-manganese	tonnes	7	49	65	52	132
Ferro-molybdenum	tonnes	11 823	11 283	7 634	11 248	12 948
Ferro-nickel	tonnes	52	81	18	15	49
Ferro-niobium	tonnes	49	58	52	224	179
Ferro-phosphorus	tonnes	33	45	312	667	766
Ferro-silicon	tonnes	2 314	3 250	3 338	2 958	6 594
Ferro-titanium and Ferro-silico-titanium	tonnes	19 515	18 557	13 098	15 197	17 662
Ferro-tungsten and Ferro-silico-tungsten	tonnes	8	31	1	4	3
Ferro-vanadium	tonnes	96	79	64	24	52
Other ferro-alloys	tonnes	2 917	3 981	1 373	3 774	2 158
Silicon metal	tonnes	11 325	15 132	7 753	2 901	3 662
Ingots, blooms, billets	tonnes	3 514 850	3 348 794	2 118 701	1 137 160	668 885
Scrap	tonnes	6 013 907	6 616 708	6 007 656	7 507 853	7 744 411
Kaolin	tonnes	2 499 011	1 955 020	1 393 939	1 722 335	2 315 560

United Kingdom

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Lead						
Unwrought	tonnes	68 152	79 520	126 743	105 235	144 877
Unwrought alloys	tonnes	39 246	57 466	54 505	62 406	4 820
Scrap	tonnes	31 942	47 660	56 055	69 404	74 789
Lithium						
Oxides	tonnes	92	232	569	144	7
Carbonate	tonnes	158	216	193	123	50
Magnesite and magnesite						
Magnesite	tonnes	51	316	518	470	745
Magnesia	tonnes	16 371	13 647	9 662	14 497	28 042
Manganese						
Metal (a)	tonnes	* 2 100	* 3 200	* 2 200	* 2 000	* 2 100
Mercury	kilograms	4 311	6 369	178 571	9 321	5 368
Mica	tonnes	3 820	4 749	3 944	4 137	...
Molybdenum						
Ores and concentrates	tonnes	78	64	35	305	3
Metal	tonnes	237	241	433	572	403
Nickel						
Scrap	tonnes	16 872	18 229	12 693	19 361	17 405
Unwrought	tonnes	24 147	26 235	15 834	18 639	28 994
Unwrought alloys	tonnes	4 375	4 378	4 753	4 530	6 025
Crude petroleum	tonnes	47 058 702	43 354 245	43 550 953	41 591 305	34 304 184
Natural gas (c)	tonnes	9 361 445	9 543 217	11 160 939	14 461 473	15 239 637
Platinum metals						
Palladium	kilograms	56 994	47 142	53 091	42 864	50 917
Platinum	kilograms	52 789	40 630	43 177	24 464	37 836
Other Platinum metals	kilograms	23 731	22 548	20 044	23 021	17 319
Waste and scrap	kilograms	3 793 637	4 278 682	4 273 222	527 862	287 198
Potash						
Chloride (a)	tonnes	* 220 600	* 244 300	* 205 600	* 339 000	* 429 000
Other potassic fertilisers	tonnes	399	562	228	420	5 283
Rare earths						
Metals	tonnes	143	237	54	46	272
Cerium compounds	tonnes	37	73	105	182	149
Other rare earth compounds	tonnes	1 089	622	459	614	347
Ferro-cerium and other pyrophoric alloys	tonnes	80	7	6	37	48
Salt	tonnes	514 868	873 708	449 303	450 246	489 633
Sillimanite minerals	tonnes	2 430	2 076	1 414	1 378	1 761
Silver						
Ores and concentrates	kilograms	1 627	192	1 338	2 035	206
Metal	kilograms	2 317 951	6 071 009	943 522	2 579 909	3 937 294
Waste and scrap	kilograms	5 050 634	5 447 491	8 412 093	5 160 290	11 649 846
Sulphur and pyrites						
Sulphur, crude	tonnes	8 207	13 182	2 545	41 491	101 964
Sulphur, refined	tonnes	15 268	27 872	38 723	1 198	3 686
Sulphur, sublimed and precipitated	tonnes	624	1 144	1 902	1 349	2 151
Talc	tonnes	2 389	3 129	2 402	3 074	3 171
Tantalum and niobium						
Tantalum	tonnes	77	55	72	191	97
Tin						
Concentrates	tonnes	373	254	61	163	58
Unwrought	tonnes	4 085	1 264	928	1 856	1 797
Unwrought alloys	tonnes	696	532	537	389	545
Scrap	tonnes	27 329	19 110	22 597	13 115	4 414
Titanium						
Metal	tonnes	12 934	11 155	9 555	12 060	11 926
Oxides	tonnes	212 068	222 503	203 873	208 518	223 190
Tungsten						
Ores and concentrates	tonnes	36	21	3	29	35
Metal	tonnes	2 444	1 625	1 541	1 650	2 135
Carbide	tonnes	303	51	80	41	597
Vanadium						
Pentoxide	tonnes	697	589	487	694	6
Metal	tonnes	2 182	2	18	23	...

Exports continued

Commodity	Units	2007	2008	2009	2010	2011
Zinc						
Ores and concentrates	tonnes	82	246	11 418	8 405	9 714
Unwrought	tonnes	5 932	3 883	3 600	3 580	2 724
Unwrought alloys	tonnes	33 799	28 408	13 578	14 561	12 737
Scrap	tonnes	7 543	5 699	6 030	14 903	12 545
Zirconium						
Concentrates	tonnes	1 096	716	742	1 405	1 661
Metal	tonnes	54	61	19	90	102

Notes

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

(b) Including burnt pyrites

(c) Tonnes of oil equivalent, converted from GWh using 85.985 tonnes of oil equivalent to 1 GWh. Source: Department of Energy and Climate Change

Imports

Commodity	Units	2007	2008	2009	2010	2011
Primary aggregates	tonnes	2 806 448	2 631 986	2 054 272	2 239 950	2 062 760
Aluminium and bauxite						
Bauxite	tonnes	48 741	57 971	37 461	41 650	41 497
Alumina	tonnes	787 218	705 033	352 250	229 158	110 265
Alumina hydrate	tonnes	112 287	110 503	98 516	87 278	90 065
Unwrought	tonnes	201 262	160 797	304 621	138 975	201 428
Unwrought alloys	tonnes	93 145	93 210	43 601	62 686	62 784
Scrap	tonnes	158 827	145 819	117 651	126 584	109 122
Antimony						
Metal	tonnes	110	98	88	45	121
Oxide	tonnes	1 917	2 454	1 548	2 598	1 785
Arsenic						
Metallic arsenic	tonnes	70	52	60	7	5
Asbestos						
Unmanufactured	tonnes	187	...	11	—	...
Barytes	tonnes	84 617	56 794	61 308	89 474	99 872
Bentonite and fuller's earth						
Bentonite	tonnes	157 388	205 853	140 301	141 849	200 332
Sepiolite	tonnes	282 733	227 453	70 651	...	...
Bismuth						
Metal	tonnes	1 908	1 582	310	366	411
Bromine	kilograms	5 266 339	5 903 423	6 534 300	5 787 829	9 485 963
Cadmium						
Metal	tonnes	276	212	246	470	542
Oxide	tonnes	438	386	181	309	281
Cement						
Cement clinkers	tonnes	836 788	366 791	206 857	201 308	208 595
Portland cement	tonnes	1 534 683	1 731 228	1 718 146	1 759 841	1 746 862
Other cement	tonnes	26 215	28 324	30 815	92 031	100 453
Chromium						
Ores and concentrates	tonnes	103 551	117 715	33 867	7 084	10 572
Metal	tonnes	2 134	3 099	2 904	3 007	2 346
Coal						
Anthracite	tonnes	135 941	213 318	207 327	187 246	193 474
Other coal	tonnes	43 024 560	43 038 043	36 553 574	23 227 529	31 627 894
Briquettes	tonnes	6 501	14 131	9 021	11 169	21 142
Cobalt						
Ore	tonnes	0	72	200	143	124
Metal	tonnes	5 422	5 395	3 928	5 963	6 093
Oxides	tonnes	180	138	168	198	256
Copper						
Scrap	tonnes	21 852	21 132	18 549	27 495	29 010
Unwrought, unrefined	tonnes	7 401	5 529	3 034	2 039	1 267
Unwrought, refined	tonnes	46 820	47 716	45 249	40 708	34 627
Unwrought alloys	tonnes	6 202	5 721	4 066	5 688	5 498

United Kingdom

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Diamond						
Unsorted	Carats	13 661 786	10 283 610	8 348 854	8 703 907	8 484 526
Gem, rough	Carats	81 195 314	59 534 653	44 064 081	40 559 260	38 472 604
Gem, cut	Carats	973 433	1 343 330	868 406	761 455	18 292 931
Industrial	Carats	7 524 168	5 127 610	3 321 670	7 299 364	10 236 376
Dust	Carats	198 484 150	187 268 975	88 148 090	111 136 020	32 411 894
Diatomite	tonnes	24 224	23 084	22 014	18 649	20 042
Feldspar	tonnes	26 751	18 899	9 299	17 584	16 750
Fluorspar	tonnes	3 875	8 429	6 436	1 294	45 327
Gold						
Metal	kilograms	649 163	914 000	1 166 948	800 602	1 012 882
Waste and scrap	kilograms	17 046	43 143	213 440	65 833	71 449
Graphite	tonnes	17 225	14 309	7 850	6 989	6 869
Gypsum						
Crude	tonnes	196 613	140 783	396 138	216 605	539 327
Calcined	tonnes	52 678	88 766	60 337	54 209	46 526
Iodine	kilograms	1 225 368	1 106 864	1 075 328	1 253 806	1 426 239
Iron ore						
Iron ore	tonnes	17 435 472	15 282 786	9 185 919	10 597 085	9 175 254
Burnt pyrites	tonnes	131 230	693	232	—	598
Iron, steel and ferro-alloys						
Pig iron	tonnes	89 863	61 657	19 703	41 959	69 095
Sponge and powder	tonnes	11 766	27 003	17 483	97 745	147 870
Ferro-alloys	tonnes	298 803	314 921	160 285	208 817	225 819
Ferro-chrome	tonnes	46 975	79 692	34 884	58 398	70 191
Ferro-silico-chrome	tonnes	1 242	128	26	9	362
Ferro-silico-magnesium	tonnes	2 303	1 614	512	931	1 328
Ferro-manganese	tonnes	100 694	96 461	49 700	46 985	39 159
Ferro-silico-manganese	tonnes	56 036	52 966	37 114	49 280	51 928
Ferro-molybdenum	tonnes	515	369	325	322	573
Ferro-nickel	tonnes	14 960	16 520	2 777	6 284	13 888
Ferro-niobium	tonnes	1 490	1 189	686	859	395
Ferro-phosphorus	tonnes	2 070	2 473	282	836	1 134
Ferro-silicon	tonnes	66 838	59 438	31 091	43 703	45 918
Ferro-titanium and ferro-silico-titanium	tonnes	1 677	1 290	396	274	187
Ferro-tungsten and ferro-silico-tungsten	tonnes	33	27	26	48	44
Ferro-vanadium	tonnes	755	543	209	340	368
Other ferro-alloys	tonnes	3 215	2 210	2 270	547	344
Silicon metal	tonnes	25 787	56 807	68 109	99 651	101 005
Ingots, blooms, billets	tonnes	849 803	679 019	212 829	714 541	1 185 242
Scrap	tonnes	204 100	228 294	213 818	270 986	423 744
Kaolin	tonnes	73 014	79 546	77 504	95 865	204 792
Lead						
Unwrought, base bullion (a)	tonnes	119 726	194 113	130 312	151 653	127 691
Unwrought, other	tonnes	31 180	19 569	15 479	14 359	18 601
Unwrought alloys	tonnes	7	19 924	1 798	787	1 287
Scrap	tonnes	17 685	4 621	4 962	8 858	4 792
Lithium						
Oxides	tonnes	614	466	914	218	215
Carbonate	tonnes	779	536	622	427	376
Magnesite and magnesia						
Magnesite	tonnes	10 194	7 016	3 567	8 640	7 903
Magnesia	tonnes	57 905	59 300	43 873	49 076	52 263
Manganese						
Ores and concentrates (b)	tonnes	1 569	4 133	941	1 517	1 656
Metal	tonnes	7 021	8 773	4 123	6 619	5 444
Mercury	kilograms	2 668	2 387	1 121	22 065	425
Mica						
Unmanufactured	tonnes	289	377	328	43	243
Ground	tonnes	6 705	7 061	6 396	7 341	7 926
Waste	tonnes	3 433	2 030	49	902	0
Molybdenum						
Ores and concentrates	tonnes	18 381	15 130	9 007	12 581	15 844
Metal	tonnes	1 390	2 102	707	1 099	1 415
Oxides	tonnes	513	1 433	510	1 638	2 316

Imports continued

Commodity	Units	2007	2008	2009	2010	2011
Nickel						
Mattes, sinters etc	tonnes	62 637	63 553	25 929	50 263	58 519
Scrap	tonnes	10 376	10 291	9 593	8 154	6 741
Unwrought	tonnes	21 044	16 888	8 003	14 200	12 707
Unwrought alloys	tonnes	2 947	3 210	3 596	3 310	4 644
Crude petroleum	tonnes	44 129 689	52 103 843	50 656 965	50 447 008	53 647 056
Natural gas (c)	tonnes	27 836 698	33 996 147	38 563 499	49 981 718	49 695 891
Phosphate rock	tonnes	23 052	28 971	5 600	9 873	15 885
Platinum metals						
Platinum	kilograms	26 015	29 943	30 339	58 659	46 092
Palladium	kilograms	42 395	32 806	36 652	73 184	42 167
Other platinum metals	kilograms	6 507	5 409	6 713	9 487	7 768
Waste and scrap	kilograms	1 456 413	1 416 905	1 100 117	819 769	1 556 736
Potash						
Sulphate	tonnes	16 166	15 157	15 766	15 766	13 232
Chloride	tonnes	202 623	165 331	80 842	270 096	153 141
Other potassic fertilisers	tonnes	10 813	11 919	10 422	10 565	2 373
Rare earths						
Metals	tonnes	88	133	99	119	79
Cerium compounds	tonnes	2 167	2 067	612	1 119	1 713
Other rare earth compounds	tonnes	664	251	103	322	629
Ferro-cerium and other pyrophoric alloys	tonnes	77	57	148	150	79
Salt	tonnes	237 772	237 288	410 434	1 288 253	1 814 865
Sillimanite minerals						
Sillimanite minerals	tonnes	10 239	11 920	7 763	7 419	12 485
Mullite	tonnes	12 036	6 488	5 255	8 276	3 491
Silver						
Ores and concentrates	kilograms	8 283	8 332	1 106	9 737	1 209
Metal	kilograms	3 635 563	3 943 638	6 649 190	3 278 015	3 686 011
Waste and scrap	kilograms	3 049 452	4 222 712	3 311 165	4 137 096	13 713 610
Sulphur and pyrites						
Pyrites	tonnes	105	704	104	2 581	1 734
Sulphur, crude	tonnes	5 101	64	74	274	590
Sulphur, refined	tonnes	8 577	9 574	6 211	10 201	10 391
Sulphur, sublimed and precipitated	tonnes	1 073	1 186	473	767	691
Talc	tonnes	54 812	53 864	39 520	50 309	53 339
Tantalum and niobium						
Tantalum	tonnes	96	161	145	284	176
Tin						
Unwrought	tonnes	13 630	7 181	4 522	4 327	4 186
Unwrought alloys	tonnes	525	400	370	365	396
Scrap	tonnes	452	448	121	196	121
Titanium						
Titanium minerals	tonnes	181 836	194 756	112 091	90 622	32 127
Metal	tonnes	30 905	32 305	23 178	20 681	69 844
Oxides	tonnes	67 727	51 822	48 931	52 957	53 093
Titanium slag	tonnes	151 494	158 195	127 224	187 913	...
Tungsten						
Ores and concentrates	tonnes	2	11	35	2	25
Metal	tonnes	2 925	1 865	1 477	1 676	1 999
Carbide	tonnes	1 409	1 023	614	1 111	3 622
Vanadium						
Pentoxide	tonnes	425	344	84	5	17
Metal	tonnes	583	314	112	197	...
Zinc						
Unwrought	tonnes	122 458	119 911	84 594	97 066	85 516
Unwrought alloys	tonnes	13 201	8 524	1 869	2 973	9 306
Zirconium						
Concentrates	tonnes	11 007	13 092	6 386	8 450	14 709
Metal	tonnes	446	521	203	411	616

Notes

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

(b) Including manganiferous Iron ore

(c) Tonnes of oil equivalent, converted from GWh using 85.985 GWh to 1 tonne of oil equivalent. Source: Department of Energy and Climate Change

STATISTICAL INFORMATION BY COMMODITY

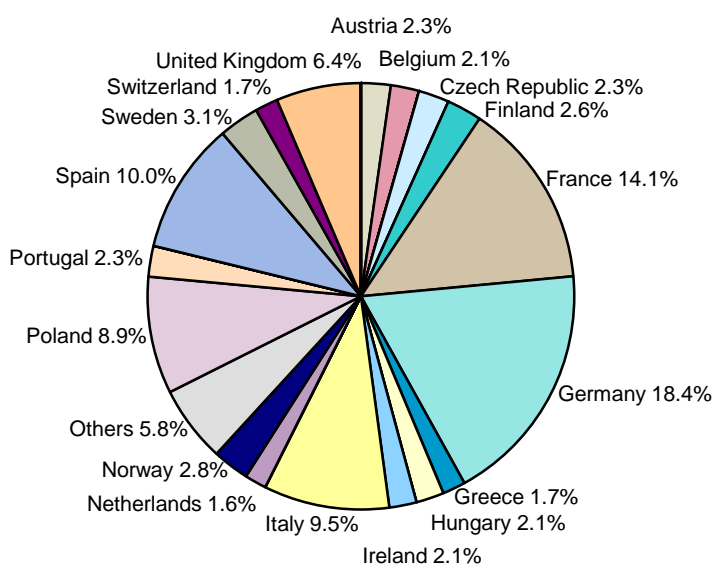
Primary aggregates

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.

EU35 Production of aggregates 2011



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

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Sand and gravel (a)	29 230 545	32 440 624	30 238 150	30 182 855	35 507 353
Crushed rock (a)	25 248 136	33 867 686	29 784 794	24 399 380	26 866 150
Belgium					
Sand and gravel (b)(c)	* 8 600 000	* 8 600 000	* 8 000 000	* 8 000 000	* 8 000 000
Crushed rock (b)(d)	* 43 000 000	* 42 000 000	* 43 000 000	* 44 000 000	* 44 000 000
Bulgaria					
Sand and gravel	17 607 212	19 697 937	12 882 651	5 199 000	10 134 216
Crushed rock	12 199 339	21 094 047	15 667 880	16 876 900	16 851 576
Croatia					
Sand and gravel	...	7 275 077	6 583 880	3 646 572	5 012 106
Cyprus					
Crushed rock	13 129 470	14 174 480	11 467 987	12 981 444	11 816 397
Czech Republic					
Sand and gravel	28 233 000	27 306 000	23 974 000	19 240 000	21 424 000
Crushed rock	43 214 000	44 277 000	41 307 000	37 270 000	36 717 000
Denmark					
Sand and gravel	6 575 651	4 637 319	1 772 956	2 041 135	1 398 101
Crushed rock	834 988	936 616	760 536	640 742	541 931
Estonia					
Sand and gravel	6 531 740	3 635 700	3 911 980	3 524 400	3 755 240
Crushed rock	8 855 800	7 945 900	6 034 500	5 752 600	6 900 900
Finland					
Sand and gravel	59 000 000	25 000 000	16 000 000	* 16 000 000	* 16 000 000
Crushed rock	54 000 000	60 000 000	47 000 000	* 48 000 000	* 48 000 000

Production continued

tonnes

Country	2007	2008	2009	2010	2011
France					
Sand and gravel	180 450 000	171 610 000	146 290 000	141 290 000	152 390 000
Crushed rock	242 950 000	236 770 000	209 440 000	201 860 000	205 220 000
Germany					
Sand and gravel	263 300 000	260 000 000	245 000 000	239 000 000	253 000 000
Crushed rock	215 000 000	215 000 000	217 000 000	208 000 000	229 000 000
Greece	* 90 000 000	* 85 000 000	* 65 000 000	* 42 250 000	* 27 462 500
Hungary					
Sand and gravel	34 815 891	36 647 400	35 591 131	35 400 000	24 971 140
Crushed rock	13 046 962	17 030 760	15 808 088	15 800 000	11 000 000
Ireland, Republic of					
Sand and gravel	* 40 000 000	* 25 000 000	* 15 000 000	10 000 000	7 000 000
Crushed rock	* 90 000 000	* 60 000 000	* 50 000 000	40 000 000	25 000 000
Italy					
Sand and gravel (a)	170 071 749	174 779 712	164 218 753	150 996 352	164 844 967
Crushed rock (a)	97 463 072	91 373 378	84 717 579	80 336 696	76 793 269
Latvia					
Sand and gravel	9 998 863	8 905 937	6 520 363	5 890 950	7 600 317
Crushed rock	937 030	1 413 395	818 390	1 375 197	2 050 976
Lithuania					
Sand and gravel	9 181 552	9 469 411	5 029 476	5 655 401	5 776 850
Crushed rock	6 424 791	6 913 160	2 849 122	3 281 330	4 456 089
Montenegro					
Sand and gravel	132 662	234 210	118 989	79 227	76 347
Crushed rock	355 416	462 331	186 221	328 939	167 405
Netherlands					
Sand and gravel	69 437 000	67 622 000	47 000 000	40 000 000	* 40 000 000
Norway					
Sand and gravel	14 855 000	14 817 000	13 047 000	13 011 000	13 215 000
Crushed rock	51 533 000	52 338 000	51 378 000	54 134 000	63 855 000
Poland					
Sand and gravel (e)	* 139 388 000	* 149 312 000	* 141 114 000	* 157 236 000	* 176 000 000
Crushed rock	46 854 829	39 465 558	52 217 696	58 203 700	83 037 600
Portugal					
Sand and gravel	10 664 828	10 182 146	9 190 603	7 500 000	* 7 000 000
Crushed rock	60 556 329	58 283 117	55 263 772	49 191 754	* 46 000 000
Romania					
Sand and gravel	26 276 857	31 377 110	23 199 337	22 085 231	25 424 330
Crushed rock	5 905 842	4 635 010	4 718 854	3 774 309	6 269 228
Slovakia					
Sand and gravel	6 470 725	7 517 655	6 919 826	6 931 873	6 020 641
Crushed rock	13 338 000	16 345 800	15 233 400	14 909 400	9 855 157
Slovenia					
Sand and gravel	21 548 000	19 171 000	15 720 000	12 965 000	* 10 690 653
Crushed rock	14 279 253	14 982 560	13 609 728	12 072 532	9 626 791
Spain					
Sand and gravel	143 000 000	118 000 000	96 000 000	72 000 000	* 52 000 000
Crushed rock	280 000 000	214 000 000	160 000 000	170 000 000	* 130 000 000
Sweden					
Sand and gravel	20 036 785	18 804 343	14 400 000	* 17 000 000	* 17 000 000
Crushed rock	64 047 058	66 757 671	57 500 000	* 57 000 000	* 57 000 000
Switzerland					
Sand and gravel	* 50 000 000	* 37 000 000	* 37 000 000	* 37 000 000	* 40 000 000
Crushed rock	* 5 700 000	* 5 000 000	* 5 000 000	* 5 000 000	* 5 000 000
United Kingdom					
Sand and gravel	93 236 000	85 473 000	66 226 000	61 700 000	63 113 000
Crushed rock (f)	148 534 000	127 996 000	104 626 000	94 203 000	101 928 000
EU35 Total	3 106 049 375	2 912 578 050	2 551 338 642	2 425 216 919	2 452 770 230

Notes on next page.

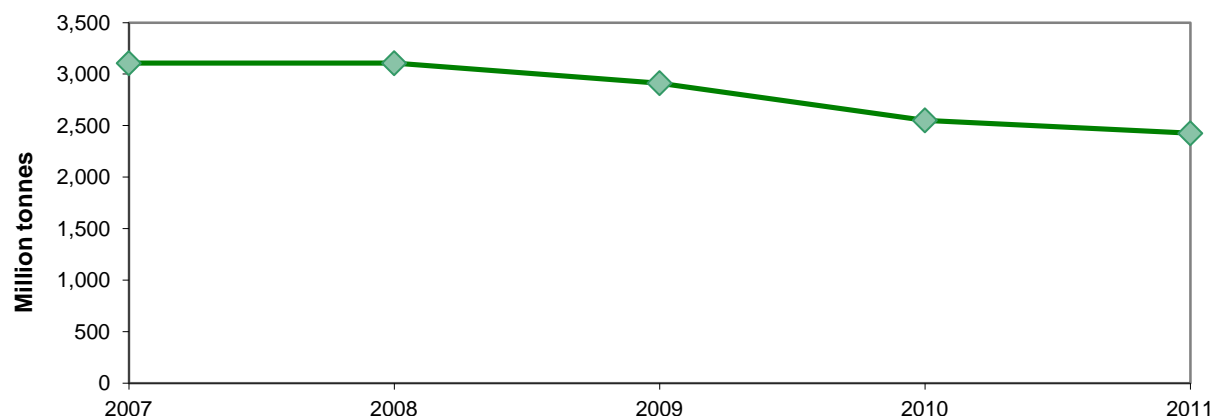
Aggregates

Notes

- (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
- (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 EU35 countries produce sand and gravel and crushed rock
- (5) Production from many small operations are not officially compiled. The minimum number of employees for which establishments are required to report production varies between different countries and can also vary from year to year within a country
- (6) Quantities of sand from sand and gravel operations may be discarded due to low demand. This may or may not be included in the statistics

- (a) Sales
- (b) Deliveries
- (c) Includes construction sand and silica sand. Excludes gravel
- (d) Includes gravel
- (e) Includes an estimate for small producers
- (f) Includes small quantities for other purposes in Northern Ireland

EU35 Production of aggregates 2007 - 11



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

tonnes

Country	2007	2008	2009	2010	2011
Austria	3 394 988	3 130 358	2 634 211	2 828 621	2 646 753
Belgium	15 588 032	15 097 819	13 354 957	12 427 043	13 083 592
Bulgaria	330 088	268 120	76 129	262 166	325 857
Croatia	3 334 229	2 950 159	3 087 216	1 858 348	992 712
Cyprus	148 994	124 576	38 469	—	2
Czech Republic	716 787	699 987	597 101	683 786	1 010 339
Denmark	1 194 349	846 490	955 036	907 149	961 853
Estonia	573 530	701 067	503 048	810 298	745 353
Finland	837 957	850 685	645 609	1 396 025	2 020 822
France	8 383 027	8 565 175	7 586 323	8 142 237	7 226 413
Germany	29 024 954	29 470 321	27 973 749	25 337 558	29 162 240
Greece	49 781	50 453	59 216	60 851	76 495
Hungary	1 889 989	1 382 695	1 294 700	1 191 521	1 137 425
Iceland	35 965	41 024	29 712	44 512	85 854
Ireland, Republic of	85 146	255 295	40 626	13 318	16 005
Italy	1 482 346	1 522 229	1 308 016	1 507 704	1 071 579
Latvia	32 783	54 321	121 260	101 406	59 930
Lithuania	1 053 802	943 673	163 850	57 255	139 291
Luxembourg	191 762	451 026	132 842	160 773	161 019

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Montenegro	257 653	151 614	127 600	112 522	32 451
Netherlands	9 185 884	9 339 355	7 140 000	9 311 275	15 472 833
Norway	16 183 927	16 683 638	13 843 722	16 877 617	20 858 955
Poland	1 378 634	1 237 976	902 193	1 031 013	1 058 307
Portugal	120 914	44 174	101 421	67 505	120 946
Romania	111 803	60 190	160 241	360 161	255 970
Serbia	154 979	323 034	334 517	127 309	497 637
Slovakia (a)	* 744 000	* 1 388 000	* 768 000	* 598 000	* 615 008
Slovenia	437 208	402 033	451 012	488 256	426 686
Spain	2 042 075	1 478 362	1 060 445	1 153 923	1 306 103
Sweden	2 307 614	3 049 601	1 867 320	2 248 515	1 624 154
Switzerland	486 288	202 846	194 006	193 312	188 183
Turkey	73 162	1 183 150	908 010	955 765	1 237 704
United Kingdom	14 048 387	13 008 608	10 714 861	10 992 431	10 800 338

Notes

- (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)

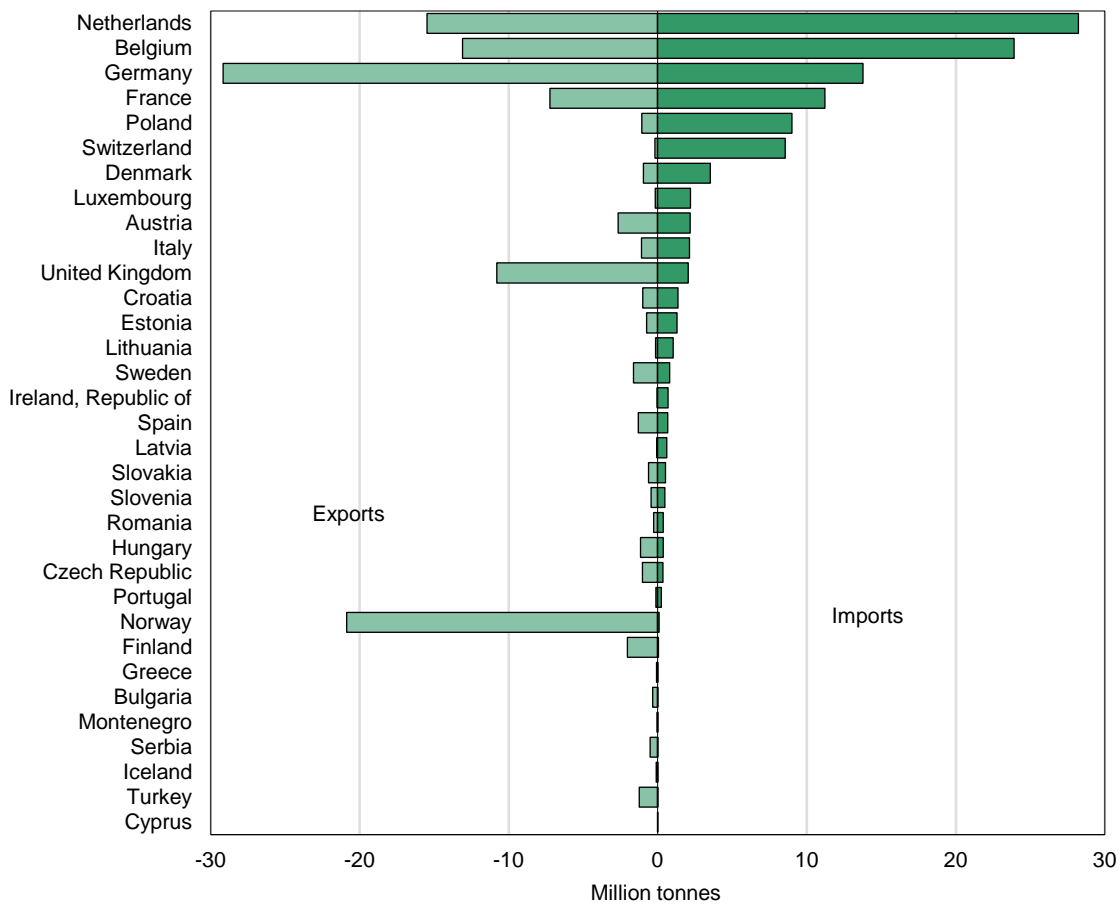
tonnes

Country	2007	2008	2009	2010	2011
Austria	3 961 223	3 447 013	2 924 359	2 284 169	2 184 095
Belgium	21 959 821	25 172 064	22 175 332	22 484 726	23 911 051
Bulgaria	41 782	41 256	22 189	14 843	15 075
Croatia	4 583 241	4 618 579	1 871 236	926 574	1 366 197
Cyprus	15 497	28 990	11 564	2 648	1 517
Czech Republic	252 049	333 726	398 613	353 419	357 455
Denmark	3 077 714	3 346 209	2 932 586	2 777 604	3 531 658
Estonia	929 218	988 981	1 006 376	1 395 122	1 302 589
Finland	326 347	280 600	330 108	284 066	52 920
France	11 381 954	11 214 300	10 907 837	9 838 820	11 224 302
Germany	11 913 688	13 369 162	12 866 444	11 936 108	13 786 596
Greece	341 376	425 485	177 887	13 538	16 892
Hungary	455 416	806 281	446 187	473 730	369 445
Iceland	47 334	30 405	4 846	6 492	7 524
Ireland, Republic of	1 729 337	1 368 008	781 470	652 594	695 162
Italy	4 967 745	4 139 144	3 654 570	3 057 378	2 135 306
Latvia	1 663 783	2 033 701	565 877	467 414	611 872
Lithuania	1 333 772	1 301 091	695 973	849 462	1 046 066
Luxembourg	1 850 515	1 370 991	1 757 604	2 097 069	2 211 572
Macedonia	1 331	1 163	894	974	1 180
Malta	29 929	25 817	47 363	37 324	28 813
Montenegro	50 573	74 112	44 639	26 703	12 452
Netherlands	26 662 441	26 922 364	* 25 007 000	26 065 573	28 239 777
Norway	72 906	80 161	66 884	82 706	98 721
Poland	5 566 874	5 868 908	5 349 230	5 014 564	9 022 494
Portugal	731 709	194 088	175 576	224 514	255 625
Romania	352 576	351 123	205 133	248 484	370 249
Serbia	12 978	17 616	12 664	15 910	8 759
Slovakia	633 400	755 496	692 609	666 380	527 259
Slovenia	3 113 823	1 424 240	1 165 083	771 814	486 627
Spain	1 396 928	1 035 555	889 156	982 128	677 289
Sweden	1 068 840	864 988	355 022	533 148	802 173
Switzerland	7 371 907	7 256 472	7 246 506	8 010 059	8 566 572
Turkey	3 843	4 590	3 636	9 372	3 487
United Kingdom	2 806 448	2 631 986	2 054 272	2 239 950	2 062 760

Note

- (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 - EU35 trade in 2011

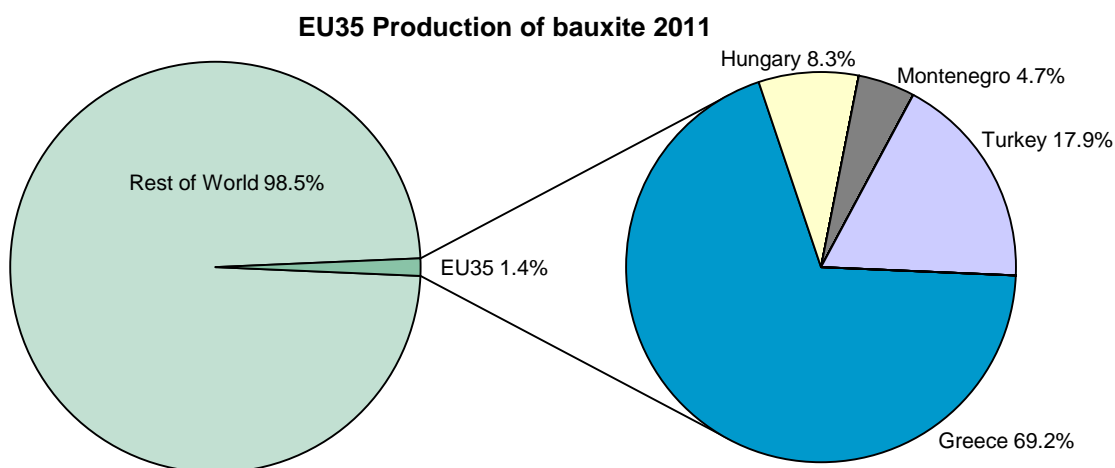


Bauxite

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.

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 was the world's largest producer in 2011, with 28 per cent of the total world output. The second largest was Indonesia (17 per cent), followed by China (15 per cent), Brazil (14 per cent) and Guinea (seven per cent).



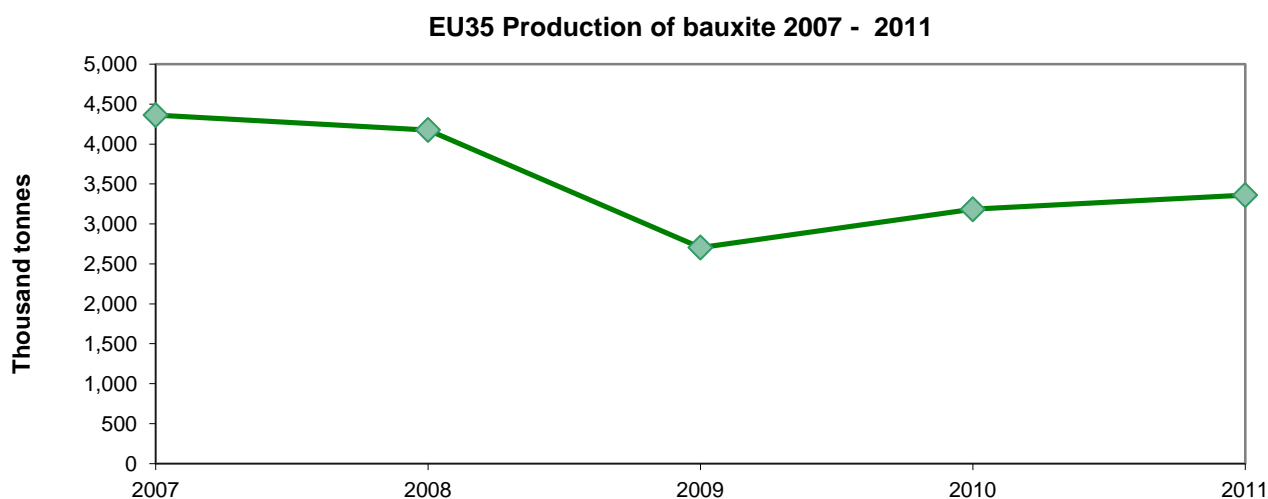
Production of bauxite

tonnes

Country	2007	2008	2009	2010	2011
France	160 000	* —	* —	* —	* —
Greece	2 125 900	2 174 000	1 935 000	1 902 000	2 324 000
Hungary	546 310	511 337	317 000	365 000	277 800
Montenegro	667 053	671 811	45 779	61 205	158 614
Turkey	863 404	818 928	406 700	855 000	* 600 000
EU35 Total	4 362 667	4 176 076	2 704 479	3 183 205	3 360 414

Note

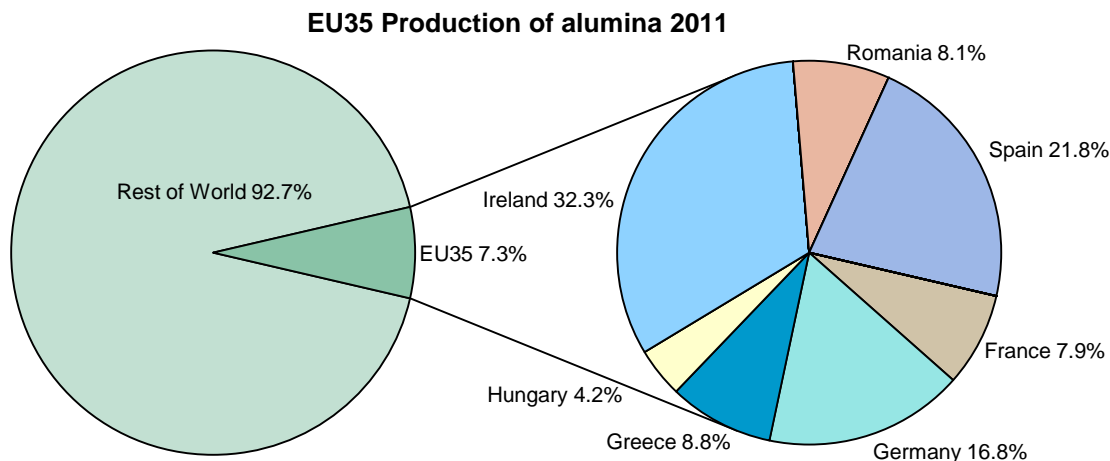
(1) This table includes production of refractory bauxite



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 2011, with 42 per cent of the total world output. Australia was the second largest (23 per cent) followed by USA, India (five per cent each) and Russia (three per cent).



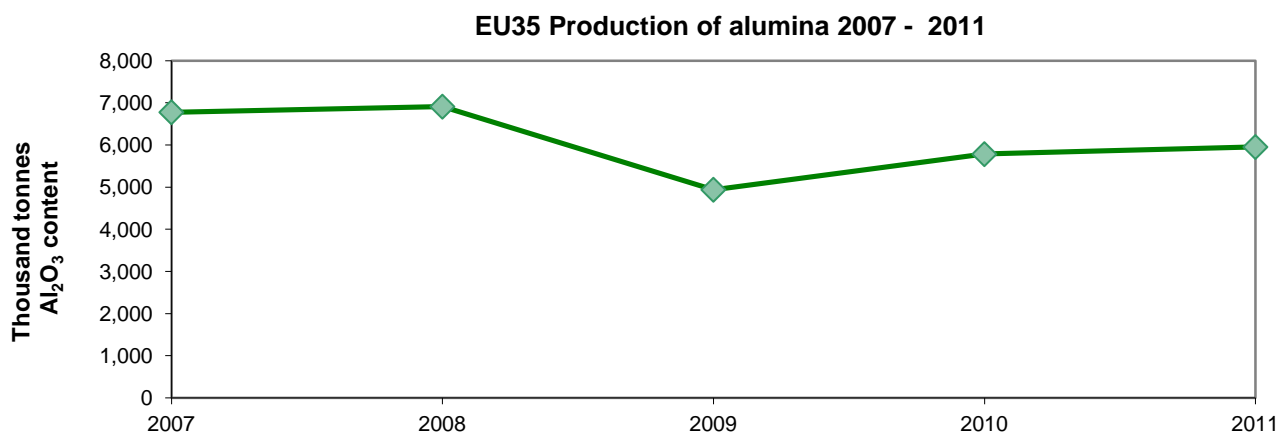
Production of alumina

tonnes (Al₂O₃ content)

Country	2007	2008	2009	2010	2011
France	* 600 000	630 000	348 000	481 000	470 000
Germany	* 900 000	* 1 000 000	1 154 000	* 1 000 000	* 1 000 000
Greece	512 785	524 875	517 400	510 250	526 305
Hungary	* 301 000	* 299 000	* 185 000	* 214 000	* 250 000
Ireland, Republic of	1 800 000	1 890 000	1 240 000	1 864 000	1 922 000
Italy	1 100 000	1 045 000	92 000	—	—
Montenegro	240 186	220 426	58 528	—	—
Romania	22 830	344	44 000	414 000	484 000
Spain	1 300 000	1 300 000	* 1 300 000	* 1 300 000	* 1 300 000
Turkey	163 435	* 160 000	* 100 000	* 160 000	* 100 000
EU35 Total	6 940 236	7 069 645	5 038 928	5 943 250	6 052 305

Notes

- (1) Where possible, figures in this table show the alumina equivalent (Al₂O₃) of total hydrate produced, whether or not calcined
- (2) The figures in this table represent alumina produced from bauxite. Alumina-rich materials can also be derived from salt slags formed during the production of secondary aluminium

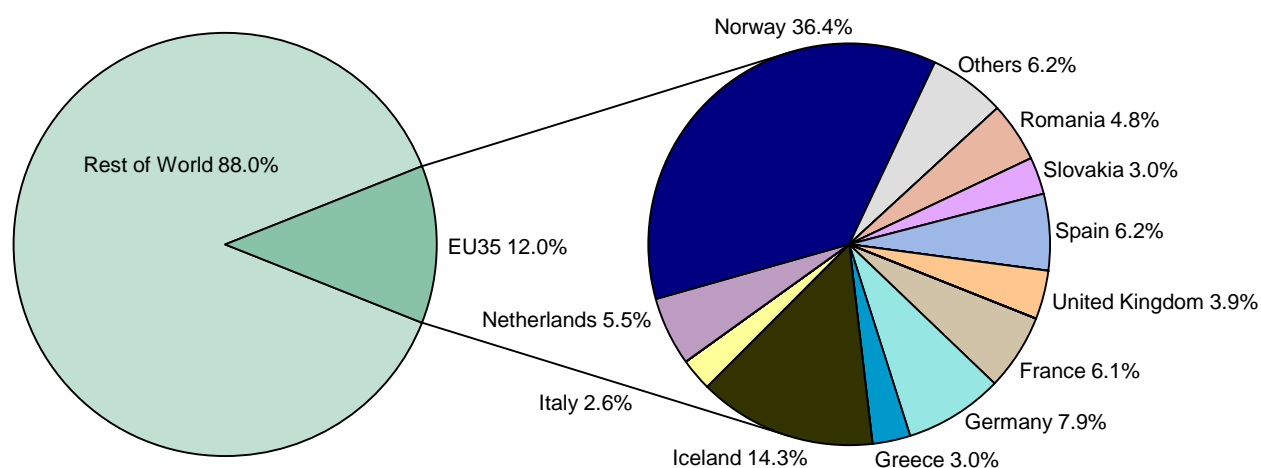


Aluminium metal

Aluminium is a strong, lightweight metallic element that has many applications. The chief uses are in transportation, packaging and construction.

China was the world's largest producer in 2011, with 40 per cent of the total world output. The second largest was Russia (nine per cent), followed by Canada (seven per cent), USA and Norway (with four per cent each).

EU35 Production of primary aluminium 2011



Production of primary aluminium

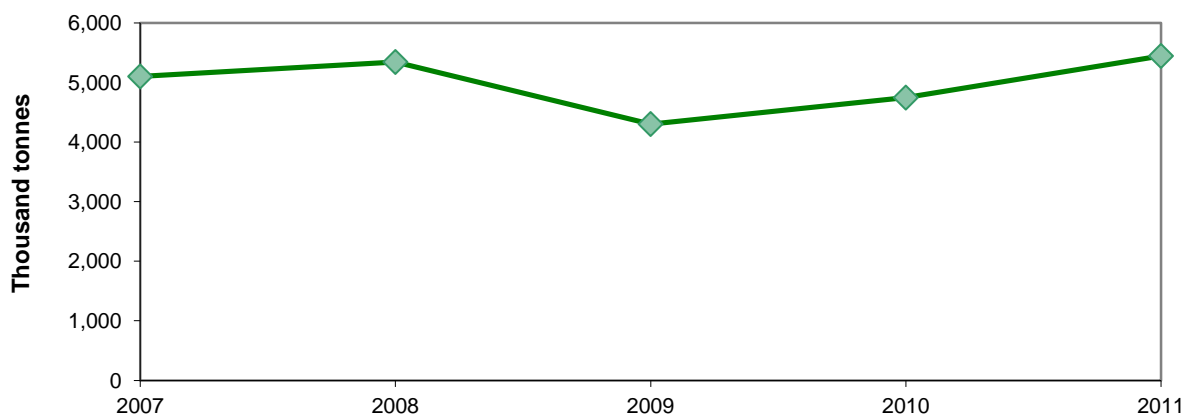
tonnes

Country	2007	2008	2009	2010	2011
France	430 159	389 000	345 000	356 000	334 000
Germany	551 000	605 880	291 750	402 480	432 472
Greece	167 937	162 339	134 737	137 000	165 150
Iceland	446 297	761 204	804 605	825 803	780 853
Italy	179 500	186 400	165 800	129 500	141 900
Montenegro	135 151	111 513	63 960	82 043	92 838
Netherlands	296 900	317 000	306 000	* 300 000	* 300 000
Norway	1 362 000	1 368 000	1 090 000	1 400 000	1 982 000
Poland	43 000	31 000	—	—	—
Romania	283 449	288 156	228 630	241 000	261 000
Slovakia	160 461	162 995	149 604	163 000	162 840
Slovenia	111 016	83 300	35 148	40 177	75 300
Spain	405 100	405 800	334 600	335 000	335 000
Sweden	99 842	81 913	69 708	93 000	111 000
Turkey	63 400	61 100	30 000	54 100	56 400
United Kingdom	364 595	326 900	252 000	186 000	213 000
EU35 Total	5 099 807	5 342 500	4 301 542	4 745 103	5 443 753

Note

(1) The figures in this table are for primary aluminium only. Aluminium can also be produced from secondary sources and may be recovered from salt slags

EU27 Production of primary aluminium 2007 - 2011



Exports of bauxite, alumina and aluminium

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Unwrought	8 294	4 120	2 332	3 236	2 344
Unwrought alloys	111 571	109 757	98 966	151 559	209 748
Scrap	91 960	90 825	118 028	122 057	105 138
Belgium					
Bauxite	75 904	53 444	44 530	48 683	37 533
Alumina	13 629	4 858	5 666	7 516	21 284
Unwrought	164 800	160 684	121 708	257 888	150 542
Unwrought alloys	37 009	32 273	22 665	14 204	30 285
Scrap	188 642	179 137	219 846	274 819	321 484
Bulgaria					
Unwrought alloys	10 290	8 931	2 775	6 798	7 555
Scrap	23 577	18 478	20 577	31 728	26 302
Croatia					
Scrap	20 886	17 769	15 779	22 346	23 009
Cyprus					
Scrap	4 745	4 409	5 934	6 896	6 310
Czech Republic					
Unwrought (a)	54 457	53 682	59 913	51 307	53 600
Scrap	61 067	59 196	49 251	71 467	89 690
Denmark					
Alumina	5 471	5 300	4 002	4 661	4 958
Unwrought alloys	36 831	32 499	7 505	9 515	7 382
Scrap	50 164	56 727	70 649	73 402	67 000
Estonia					
Unwrought (a)	8 083	27 839	8 357	4 132	52
Scrap	10 379	19 895	6 958	65 948	63 880
Finland					
Unwrought alloys	12 924	14 239	8 939	15 346	11 289
Scrap	38 364	37 345	34 910	33 304	38 862
France					
Bauxite	26 661	12 295	9 296	12 116	13 594
Alumina	276 207	319 388	178 570	270 769	281 634
Alumina hydrate	146 531	130 881	100 293	131 035	83 054
Unwrought	45 503	46 364	91 682	51 275	71 970
Unwrought alloys	136 803	139 176	125 580	166 807	130 384
Scrap	380 708	344 436	345 372	405 847	425 541

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Germany					
Bauxite	36 361	33 636	16 591	26 178	26 306
Alumina	282 245	305 514	382 750	424 236	372 191
Alumina hydrate	672 561	634 635	461 601	551 817	485 074
Unwrought	61 090	75 386	67 356	111 815	83 675
Unwrought alloys	361 917	359 628	288 023	361 396	374 917
Scrap	770 042	702 739	753 218	823 810	947 252
Greece					
Bauxite	1 086 405	787 160	409 508	436 513	519 999
Alumina	715 003	412 385	412 888	224 607	202 986
Alumina hydrate	21 716	29 552	74 996	99 574	102 136
Unwrought	27 195	26 083	17 533	20 727	19 668
Unwrought alloys	67 732	64 998	57 668	68 924	103 326
Scrap	13 566	13 261	14 681	32 250	27 738
Hungary					
Alumina	178 984	168 347	89 857	112 819	107 937
Alumina hydrate	98 187	102 652	88 515	92 011	71 834
Unwrought (a)	27 580	10 981	26 176	41 719	38 819
Scrap	29 228	22 098	35 060	51 508	66 599
Iceland					
Unwrought	446 297	760 764	805 450	812 981	765 999
Scrap	3 872	12 483	4 467	10 136	6 397
Ireland, Republic of					
Bauxite	11 167	1 438	2 619	1	—
Alumina	1 652 967	1 709 302	895 034	1 542 563	1 794 148
Alumina hydrate	10 011	88 039	95 548	124 803	103 631
Unwrought alloys	5 425	3 711	2 455	2 576	3 109
Scrap	22 397	21 041	18 257	22 810	29 261
Italy					
Bauxite	49 989	26 718	4 585	66 218	46 330
Alumina	696 603	571 090	61 223	17 056	16 821
Alumina hydrate	34 521	35 538	1 243	4 346	7 023
Unwrought	18 971	18 249	30 019	49 442	25 882
Unwrought alloys	104 361	96 798	122 294	220 237	286 525
Scrap	42 052	56 214	82 055	107 131	102 696
Latvia					
Unwrought alloys	19 281	17 012	11 772	14 493	21 793
Scrap	2 416	4 203	4 419	5 461	4 414
Lithuania					
Unwrought alloys	3 453	3 994	2 614	7 754	7 534
Scrap	5 701	5 280	4 796	5 298	8 952
Luxembourg					
Unwrought alloys	231 110	143 237	85 636	157 473	151 330
Scrap	19 630	11 164	3 785	6 034	6 051
Macedonia					
Scrap	1 795	2 043	1 514	2 351	2 432
Malta					
Scrap	1 136	1 441	1 361	1 865	1 788
Montenegro					
Bauxite	101 182	101 182	17 122	85 623	127 268
Unwrought	(a) 122 144	(a) 92 372	(a) 82 877	(a) 76 891	108 813
Scrap	1 607	2 692	1 570	2 045	2 357
Netherlands					
Bauxite	41 170	129 186	* 59 000	26 997	12 739
Alumina	542 794	257 169	62 131	8 665	43 695
Alumina hydrate	151 641	85 713	65 279	76 244	89 612
Unwrought	490 373	332 871	218 141	424 733	390 062
Unwrought alloys	341 670	361 012	191 239	320 263	246 826
Scrap	317 877	264 142	200 650	317 038	322 834
Norway					
Unwrought	113 285	105 729	106 593	74 941	58 478
Unwrought alloys	1 496 556	1 484 854	1 249 830	1 420 662	1 370 411
Scrap	41 296	41 476	80 729	77 216	88 312
Poland					
Bauxite	596	536	833	448	8 546
Unwrought (a)	78 187	82 242	66 065	103 803	111 421
Scrap	113 649	123 468	102 757	123 503	130 472

Aluminium and bauxite

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Portugal					
Unwrought alloys	130 636	127 150	90 869	102 856	59 056
Scrap	41 603	40 020	32 481	51 888	45 775
Romania					
Alumina	5 191	0	99	25 559	38 406
Unwrought	23 193	61 638	50 496	10 312	14 004
Unwrought alloys	9 080	6 690	5 898	51 556	70 697
Scrap	14 332	16 021	20 775	17 733	12 801
Serbia					
Unwrought	7 008	13 213	7 387	17 602	15 353
Scrap	1 267	11 342	10 972	13 574	22 248
Slovakia					
Unwrought	61 319	44 845	77 013	44 989	40 011
Unwrought alloys	118 286	129 771	110 484	111 769	118 485
Scrap	10 421	10 109	9 441	10 260	14 044
Slovenia					
Bauxite	8 013	450	2 537	6 665	5 738
Alumina	243 062	258 238	242 215	239 729	161 747
Unwrought alloys	123 041	88 038	61 800	78 619	95 251
Scrap	30 132	26 863	23 382	33 972	39 961
Spain					
Bauxite	6 057	5 623	4 951	3 628	2 038
Alumina	539 739	671 009	612 933	299 703	391 516
Alumina hydrate	199 679	236 855	163 303	126 398	186 543
Unwrought	15 999	39 359	19 816	26 693	19 248
Unwrought alloys	125 008	123 577	230 539	148 884	175 112
Scrap	34 520	109 493	46 307	66 976	51 518
Sweden					
Alumina	14 278	13 919	14 464	19 037	13 870
Unwrought	735	6 307	2 143	195	735
Unwrought alloys	89 591	89 190	145 554	190 394	182 946
Scrap	107 946	106 581	89 940	88 070	95 632
Switzerland					
Alumina	281	5 767	1 240	854	341
Unwrought (a)	22 645	9 938	14 444	20 954	23 397
Scrap	139 599	125 769	116 520	131 819	138 643
Turkey					
Bauxite	254 689	262 708	103 317	331 458	158 232
Alumina	40 778	25 276	1 890	190 094	96
Alumina hydrate	101 779	93 639	75 837	2 910	21 172
Unwrought	47 574	50 056	26 337	42 090	4 868
Unwrought alloys	13 012	10 827	9 368	36 994	38 640
Scrap	13 415	16 218	14 483	14 291	12 020
United Kingdom					
Bauxite	4 276	6 121	3 873	3 140	5 936
Alumina	9 016	9 517	16 810	5 879	5 114
Alumina hydrate (b)	* 5 200	* 5 300	* 4 400	* 2 100	* 2 600
Unwrought	30 631	20 690	17 688	43 665	49 959
Unwrought alloys	269 523	265 018	305 849	364 612	356 170
Scrap	906 831	872 988	422 574	443 466	440 399

Notes

- (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	2007	2008	2009	2010	2011
Austria					
Bauxite	16 717	21 727	2 370	8 489	7 842
Alumina	49 728	55 639	27 193	47 681	53 232
Alumina hydrate	16 056	20 205	13 219	12 914	12 821
Unwrought	140 286	154 792	103 145	177 751	197 795
Unwrought alloys	250 209	218 902	175 583	239 493	280 502
Scrap	161 995	170 315	168 055	268 845	282 707
Belgium					
Bauxite	85 954	88 892	40 837	75 600	52 727
Alumina	27 079	13 959	7 265	19 028	20 406
Alumina hydrate	45 870	34 834	29 635	34 978	52 806
Unwrought	437 146	319 471	322 792	517 946	412 600
Unwrought alloys	317 701	236 550	126 490	193 103	218 350
Scrap	193 852	196 947	204 621	228 517	257 366
Bulgaria					
Alumina	2 368	1 370	1 859	2 887	1 875
Unwrought	39 850	42 738	39 759	44 468	43 192
Unwrought alloys	19 617	18 557	16 050	27 444	35 685
Scrap	3 554	4 028	3 014	6 897	4 625
Croatia					
Bauxite	115 367	107 237	72 103	85 634	66 169
Unwrought	54 067	57 828	37 828	50 354	45 493
Unwrought alloys	22 039	20 786	28 251	29 270	40 783
Cyprus					
Unwrought alloys	13 868	13 408	8 721	9 211	7 073
Czech Republic					
Bauxite	26 865	17 698	9 857	33 794	32 556
Alumina	30 523	28 245	5 995	7 407	7 980
Alumina hydrate	7 834	6 916	6 672	9 547	10 052
Unwrought	82 910	68 362	62 972	76 945	84 560
Unwrought alloys	119 773	124 643	108 231	135 648	153 819
Scrap	63 508	58 424	50 379	61 802	86 969
Denmark					
Bauxite	6 572	7 317	8 108	8 364	9 112
Alumina	25 643	27 582	21 968	22 484	21 012
Unwrought (a)	86 389	85 420	61 259	79 479	86 057
Scrap	66 038	70 726	5 321	5 175	5 891
Estonia					
Unwrought (a)	3 035	26 545	5 956	3 176	2 231
Scrap	808	485	535	4 495	2 488
Finland					
Bauxite	4 909	10 461	1 584	9 294	3 036
Alumina	3 296	2 350	1 733	2 401	2 422
Alumina hydrate	37 163	22 243	20 614	29 607	25 676
Unwrought	1 213	1 332	1 204	2 008	2 070
Unwrought alloys	49 299	41 635	29 303	37 539	37 589
Scrap	19 051	21 978	10 998	15 466	15 803
France					
Bauxite	2 001 899	1 788 358	1 024 569	984 804	1 577 328
Alumina	710 029	722 371	849 798	734 935	619 175
Alumina hydrate	46 584	51 289	46 113	47 336	47 510
Unwrought	147 693	113 771	87 130	103 937	152 348
Unwrought alloys	449 505	396 382	311 287	364 962	387 038
Scrap	191 897	197 876	216 872	260 871	292 597
Germany					
Bauxite	3 141 693	2 995 241	2 069 109	2 005 053	2 436 413
Alumina	790 515	1 017 746	518 456	661 379	654 946
Alumina hydrate	266 042	241 736	168 216	260 488	176 692
Unwrought	786 506	693 075	495 511	799 780	768 797
Unwrought alloys	1 444 289	1 370 179	1 157 271	1 591 991	1 810 035
Scrap	613 084	543 839	362 582	479 413	535 304

Aluminium and bauxite

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Greece					
Bauxite	376 304	226 374	351 677	314 423	288 647
Alumina	283 255	38 828	963	1 546	1 346
Unwrought	125 327	129 407	110 311	153 771	126 051
Unwrought alloys	73 561	63 670	32 252	66 134	59 931
Scrap	50 470	28 960	17 339	43 866	95 166
Hungary					
Bauxite	319 681	297 832	178 031	244 095	254 039
Alumina	2 899	8 997	9 246	22 660	36 305
Alumina hydrate	451	508	3 352	6 856	9 123
Unwrought	132 695	122 319	100 897	146 221	135 392
Unwrought alloys	149 299	107 123	79 437	165 833	190 175
Scrap	37 204	56 347	30 212	43 720	59 661
Iceland					
Alumina	814 258	1 620 531	1 557 309	1 612 188	1 539 080
Unwrought (a)	293	439	1 461	6 127	5 560
Ireland, Republic of					
Bauxite	4 144 231	3 009 615	2 786 723	4 111 457	4 215 019
Alumina	9 268	9 579	4 711	4 903	4 378
Italy					
Bauxite	2 374 609	2 417 499	36 975	62 666	45 146
Alumina	148 384	144 473	88 864	252 028	406 774
Alumina hydrate	166 453	143 217	142 005	198 253	205 274
Unwrought	534 385	445 882	284 779	432 393	482 850
Unwrought alloys	545 052	436 207	310 560	488 002	563 882
Scrap	432 780	377 441	268 836	372 686	461 302
Latvia					
Scrap	6 837	7 677	5 974	7 828	10 381
Lithuania					
Bauxite	1	...	6 922	4 348	...
Alumina	13 304	10 282	1 815	16 411	26 876
Scrap	3 380	1 887	888	2 460	6 014
Luxembourg					
Alumina	2 851	2 225	1 403	1 117	1 490
Unwrought	47 982	52 669	33 315	62 504	51 627
Unwrought alloys	12 076	9 320	4 480	7 362	5 586
Scrap	186 465	123 407	48 091	128 632	121 295
Macedonia					
Unwrought (a)	3 930	3 446	2 164	2 839	2 642
Scrap	663	485	1 341	1 554	1 842
Montenegro					
Alumina	1 333	10	55 777	157 753	174 691
Netherlands					
Bauxite	108 088	182 711	68 038	113 499	113 653
Alumina	706 255	689 724	153 891	692 413	955 665
Alumina hydrate	190 351	178 940	52 798	167 596	246 013
Unwrought	713 441	248 386	134 950	384 724	424 915
Unwrought alloys	358 930	479 786	284 410	462 371	537 289
Scrap	204 117	210 203	88 053	184 066	241 081
Norway					
Bauxite	3 446	10 232	15 444	8 645	459
Alumina	2 535 547	2 753 105	2 069 424	2 144 519	2 185 976
Alumina hydrate	48 560	50 401	45 252	35 379	53 224
Unwrought	435 126	381 638	240 409	512 340	450 432
Unwrought alloys	73 058	58 995	95 120	68 086	27 867
Scrap	32 024	37 386	26 598	38 039	42 078
Poland					
Bauxite	71 598	59 907	49 033	48 664	45 672
Alumina	120 768	126 143	27 626	29 920	34 691
Alumina hydrate	27 634	25 334	23 083	31 406	26 536
Unwrought	105 281	71 563	67 561	125 567	125 147
Unwrought alloys	192 930	195 072	144 983	192 393	232 859
Scrap	59 623	67 176	67 408	84 622	98 484

Imports continued						tonnes
Country	2007	2008	2009	2010	2011	
Portugal						
Alumina	9 325	9 750	13 742	14 862	8 762	
Unwrought	16 859	17 732	15 200	20 152	18 744	
Unwrought alloys	214 990	214 614	149 759	170 057	113 150	
Scrap	3 994	2 409	15 819	10 183	5 305	
Romania						
Bauxite	75 934	45 527	104 404	1 277 587	1 271 274	
Alumina	482 375	487 304	353 846	1 928	15 037	
Alumina hydrate	16 927	17 822	7 996	10 412	5 768	
Unwrought (a)	10 191	16 416	17 383	33 874	27 311	
Scrap	3 833	598	3 838	83 381	62 768	
Serbia						
Bauxite	2 154	9 776	4 773	10 972	7 800	
Alumina hydrate	2 134	2 151	2 199	3 036	2 089	
Unwrought	58 811	54 765	36 626	54 512	51 717	
Unwrought alloys	18 967	18 753	12 913	13 600	15 834	
Scrap	5 311	5 399	4 411	8 404	6 870	
Slovakia						
Bauxite	7 524	5 778	5 443	4 233	6 136	
Alumina	311 914	311 891	288 753	270 786	232 187	
Unwrought (a)	52 718	41 681	27 853	42 273	232 187	
Scrap	8 748	4 638	1 760	2 098	3 181	
Slovenia						
Bauxite	63 229	40 006	13 966	41 846	42 555	
Alumina	466 163	438 579	302 520	328 453	322 872	
Alumina hydrate	28 628	27 121	20 629	27 252	26 173	
Unwrought	65 589	67 405	62 162	87 848	65 523	
Unwrought alloys	58 215	50 389	34 530	65 950	71 318	
Scrap	52 338	51 319	37 677	51 159	52 860	
Spain						
Bauxite	3 547 201	3 618 306	3 509 294	3 325 099	3 080 295	
Alumina	53 579	50 417	22 239	31 527	61 184	
Alumina hydrate	49 451	41 614	30 522	29 317	22 917	
Unwrought	122 303	82 512	95 461	119 589	110 612	
Unwrought alloys	328 314	281 270	162 026	229 036	219 925	
Scrap	123 074	110 745	63 517	111 942	125 190	
Sweden						
Bauxite	30 099	18 761	10 755	6 660	10 460	
Alumina	43 101	161 638	109 806	211 393	266 978	
Alumina hydrate	94 218	95 834	81 026	95 073	77 121	
Unwrought	46 431	47 534	39 248	35 506	22 371	
Unwrought alloys	159 628	144 343	124 277	188 198	175 194	
Scrap	36 838	40 125	30 093	48 508	47 458	
Switzerland						
Bauxite	5 850	12 439	8 360	6 718	11 898	
Alumina	10 745	11 036	9 074	10 662	9 957	
Alumina hydrate	17 875	17 235	15 269	20 697	19 131	
Unwrought	136 214	127 018	108 096	148 099	166 853	
Unwrought alloys	78 916	62 962	50 341	84 113	70 200	
Scrap	32 716	31 728	23 195	33 341	36 829	
Turkey						
Bauxite	53 202	39 256	17 350	35 652	36 358	
Alumina	8 598	18 232	10 394	15 772	15 434	
Alumina hydrate	4 115	21 275	15 269	27 721	35 739	
Unwrought	296 098	327 525	358 748	460 915	553 191	
Unwrought alloys	193 702	270 871	201 124	281 588	332 228	
Scrap	5 634	16 868	14 215	24 952	25 107	
United Kingdom						
Bauxite	48 741	57 971	37 461	41 650	41 497	
Alumina	787 218	705 033	352 250	229 158	110 265	
Alumina hydrate	112 287	110 503	98 516	87 278	90 065	
Unwrought	201 262	160 797	304 621	138 975	201 428	
Unwrought alloys	93 145	93 210	43 601	62 686	62 784	
Scrap	158 827	145 819	117 651	126 584	109 122	

Notes on next page.

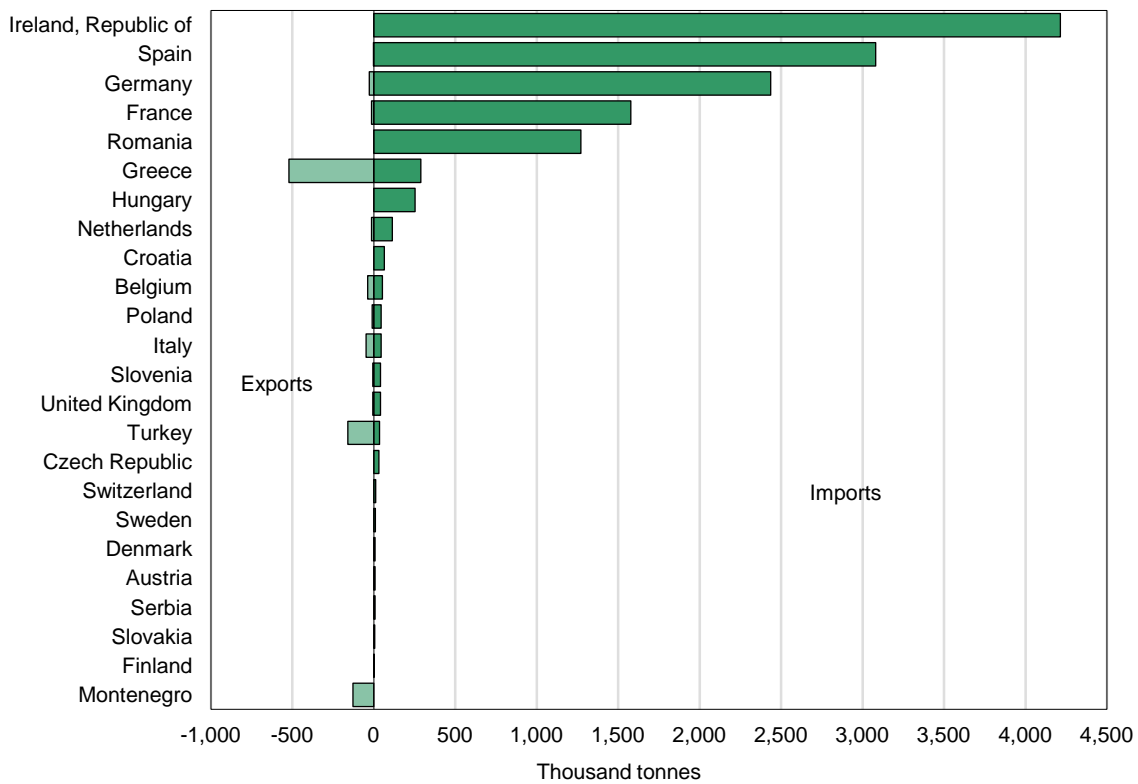
Aluminium and bauxite

Notes

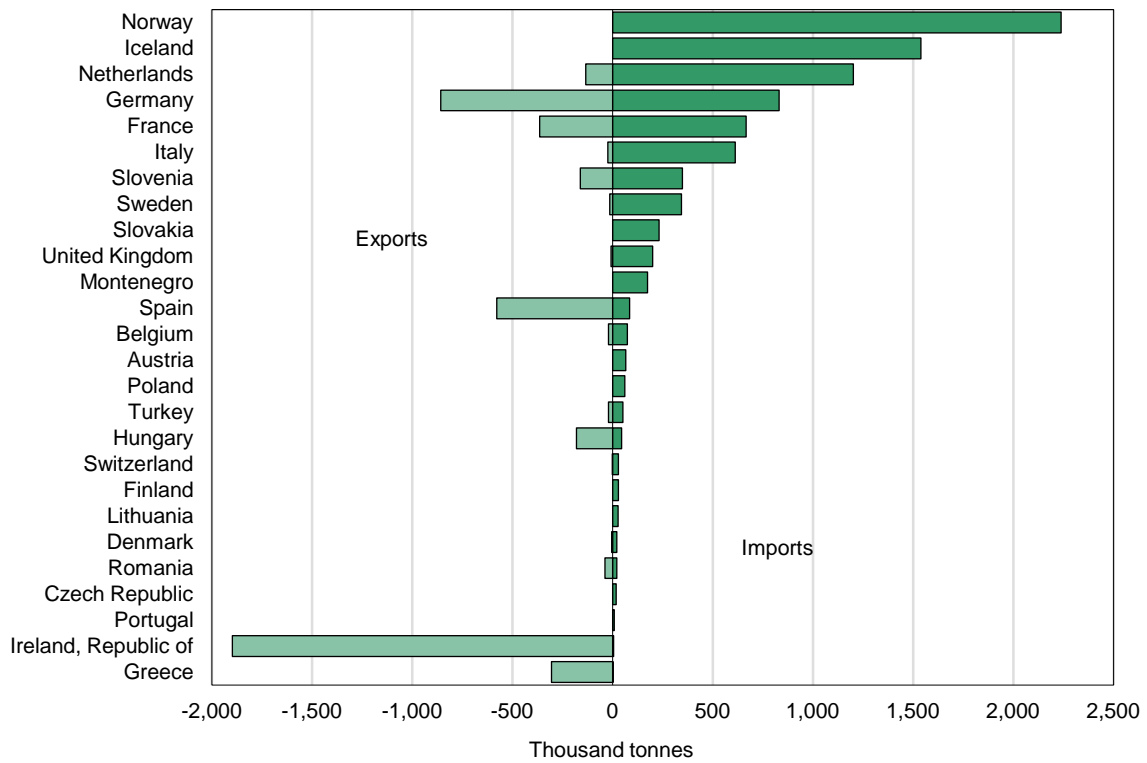
- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
- (2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars, etc
- (3) Metal traded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

(a) Including alloys

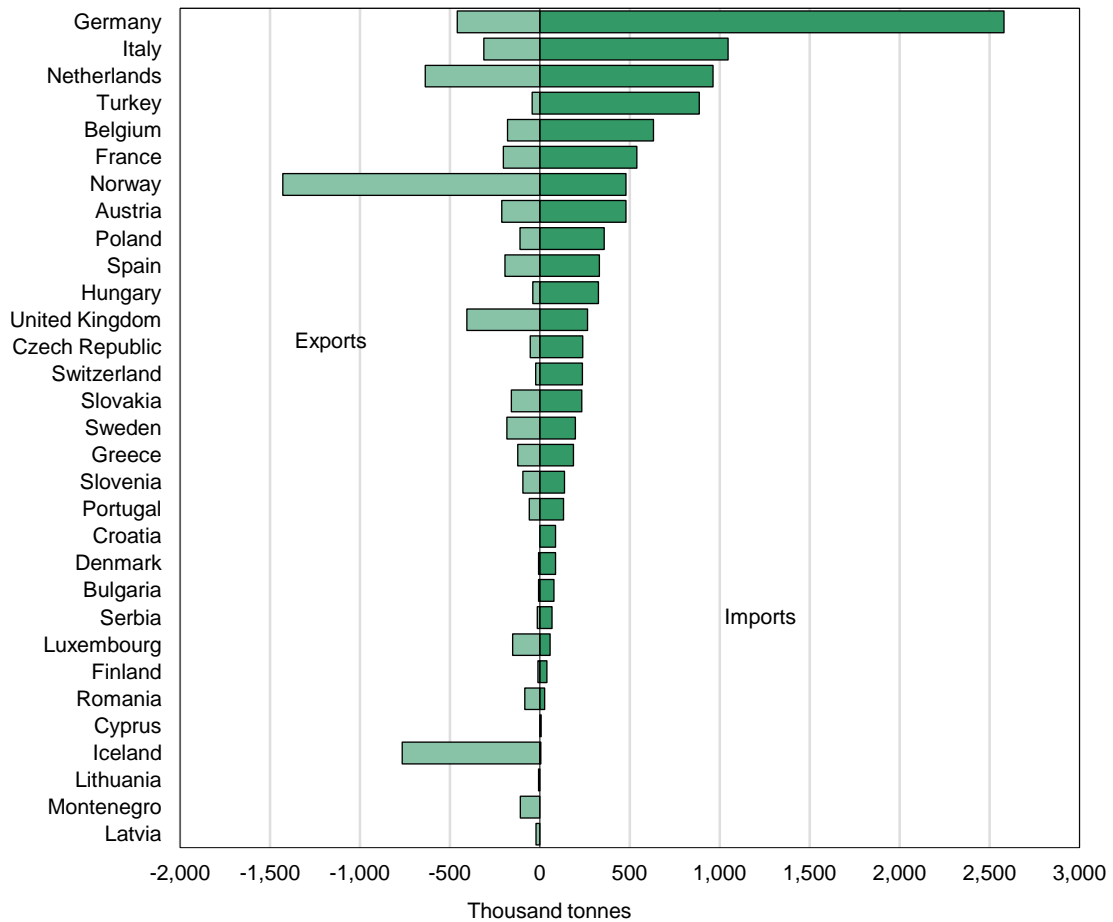
Bauxite - EU35 trade in 2011



Alumina and alumina hydrate - EU35 trade in 2011



Aluminium metal - EU35 trade in 2011



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 the largest mine producer of antimony in 2011, with 87 per cent of world production. The second largest was Tajikistan (three per cent) followed by Bolivia (also three per cent), Russia and South Africa (two per cent each). Antimony is also produced as a by-product of lead refining in many countries.

Mine production of antimony

tonnes (metal content)

Country	2007	2008	2009	2010	2011
Turkey	* 1 200	* 1 300	* 1 300	* 1 300	* 1 300

Notes

(1) This table includes antimony content of antimonial lead alloys

(2) In addition, Hungary is believed to produce antimony

Exports of antimony

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Ores and concentrates	301	228	530	433	274
Metal	974	494	533	776	732
Oxide	11 643	9 636	8 811	10 599	10 417
Czech Republic					
Oxide	139	133	89	71	107
Estonia					
Metal	...	...	...	67	113
France					
Metal	19	44	34	145	24
Oxide	6 109	6 261	6 788	6 853	6 124
Germany					
Metal	141	33	101	132	239
Oxide	1 130	932	448	961	1 132
Greece					
Metal	143	81	—	...	44
Italy					
Ores and concentrates	355	386	566	960	898
Metal	1	12	2	19	80
Oxide	237	569	391	226	261
Netherlands					
Metal	308	185	171	219	385
Oxide	496	346	285	433	264
Poland					
Metal	22	25	65	27	47
Portugal					
Metal	267	60	119	138	70
Spain					
Metal	17	143	62	19	50
Oxide	246	1 023	894	1 716	1 784
Sweden					
Metal	1	15	489	4	—
Turkey					
Ores and concentrates	819	1 000	1 408	2 765	2 977
United Kingdom					
Metal	21	35	75	77	57
Oxide	379	558	407	490	290

Imports of antimony

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metal	104	63	64	37	214
Oxide	277	245	192	249	204
Belgium					
Metal	11 904	8 837	7 511	10 280	9 451
Oxide	2 218	801	624	904	831
Bulgaria					
Metal	100	35	40	45	38
Czech Republic					
Metal	64	131	55	75	64
Oxide	604	521	209	379	356
Finland					
Oxide	281	160	101	116	80
France					
Metal	8 568	9 078	7 682	9 068	7 413
Oxide	3 315	1 923	1 277	1 577	2 854
Germany					
Metal	612	700	552	494	456
Oxide	8 527	8 672	5 072	7 986	6 949
Greece					
Metal	21	63	85	74	84
Hungary					
Oxide	192	144	173	156	148
Italy					
Ores and concentrates	851	1 171	935	1 378	1 169
Metal	399	300	198	233	298
Oxide	5 950	6 168	4 602	5 460	4 227
Netherlands					
Metal	699	234	150	314	208
Oxide	3 783	51 439	2 257	57 454	26 729
Norway					
Metal	70	44	1	1	17
Oxide	337	371	200	264	193
Poland					
Metal	142	52	71	47	68
Oxide	1 315	1 086	1 034	1 044	1 026
Portugal					
Oxide	172	161	146	240	184
Romania					
Metal	68	30	36	61	43
Oxide	190	153	87	88	120
Slovenia					
Metal	110	71	50	36	150
Spain					
Ores and concentrates	164	154	55	103	29
Metal	1 676	1 987	1 478	2 642	2 450
Oxide	1 146	899	493	516	494
Sweden					
Metal	546	166	58	17	10
Oxide	319	293	203	219	227
Switzerland					
Oxide	1 461	1 328	793	1 108	1 131
Turkey					
Metal	308	346	369	219	245
Oxide	501	522	588	885	739
United Kingdom					
Ores and concentrates	14	19	4	24	33
Metal	110	98	88	45	121
Oxide	1 917	2 454	1 548	2 598	1 785

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 2011 and is estimated to produce more than half of world output. Other significant producers are Chile, Russia, Kazakhstan and Belgium.

Production of white arsenic

tonnes

Country	2007	2008	2009	2010	2011
Belgium	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	* 15	* 15	* 15	* 15	* 15

Notes

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

Exports of arsenic

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Metallic arsenic	117	77	42	114	120
Germany					
Metallic arsenic	32	41	31	57	66
Netherlands					
Metallic arsenic	59	67	* 30	11	62
United Kingdom					
Metallic arsenic	0	0	0	0	0

Note

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

Imports of arsenic

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Metallic arsenic	466	65	17	114	634
Bulgaria					
Metallic arsenic	30	12	11	3	10
Czech Republic					
Metallic arsenic	10	26	0	0	0
France					
Metallic arsenic	19	8	4	17	21
Germany					
Metallic arsenic	...	...	...	69	9
Greece					
Metallic arsenic	9	9	11	33	9
Ireland, Republic of					
Metallic arsenic	137	95	...	—	...
Italy					
Metallic arsenic	64	43	45	19	74

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Netherlands					
Metallic arsenic	19	8	* 45	2	19
Poland					
Metallic arsenic	24	42	20	42	45
Slovenia					
Metallic arsenic	11	—	3	...	11
Spain					
Metallic arsenic	116	192	48	96	93
Sweden					
Metallic arsenic	12	6	6	7	6
Turkey					
Metallic arsenic	63	71	74	55	10
United Kingdom					
Metallic arsenic	70	52	60	7	5

Note

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

Asbestos

Asbestos is a commercial term for six fibrous minerals of which chrysotile (white asbestos), the fibrous form of serpentine, is the only form of asbestos now worked. Asbestos was once highly sought after because of its unique combination of properties:

- non-combustibility
- resistance to heat, friction, corrosion and acid/alkali attack
- good thermal and sound insulation qualities
- good dielectric properties

Airborne asbestos fibres are a serious hazard to health and virtually all industrial use of asbestos has now ceased in Europe. The largest world producer is Russia with an estimated 49 per cent of the total world output, followed by China with 22 per cent. Other significant producers are Brazil, Kazakhstan and Canada.

Production of asbestos

tonnes

Country	2007	2008	2009	2010	2011
Slovakia	400	200	—	—	—

Note

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

EU35 Production of asbestos 2007 - 11



Exports of unmanufactured asbestos

tonnes

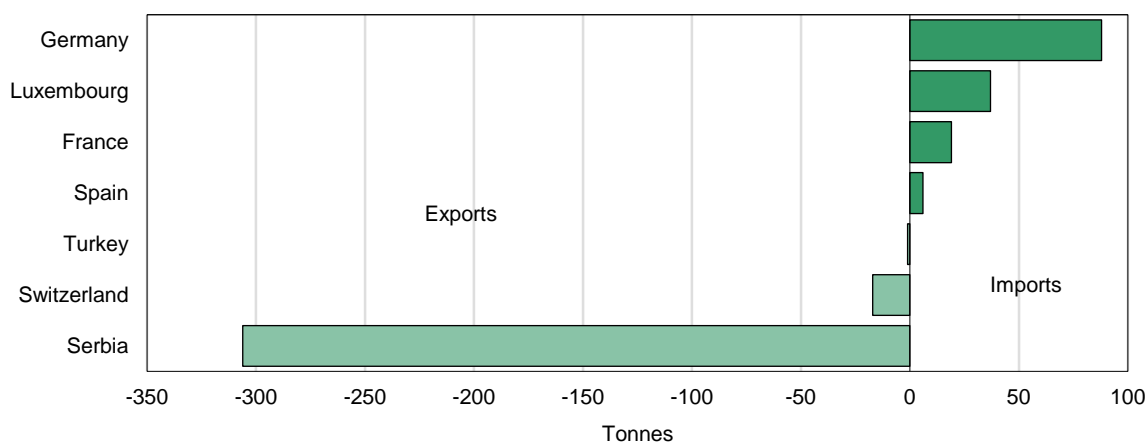
Country	2007	2008	2009	2010	2011
Serbia	...	15	62	1	306
Switzerland	290	120	30	42	17
Turkey	990	685	—	3	1

Imports of unmanufactured asbestos

tonnes

Country	2007	2008	2009	2010	2011
Belgium	120	6	166	0	0
France	169	120	34	42	19
Germany	54	54	36	72	88
Luxembourg	120	...	—	—	37
Montenegro	...	48	...	22	...
Poland	...	...	35	—	...
Spain	50	21	—	—	6
Turkey	2 518	585	—	—	—
United Kingdom	187	...	11	—	...

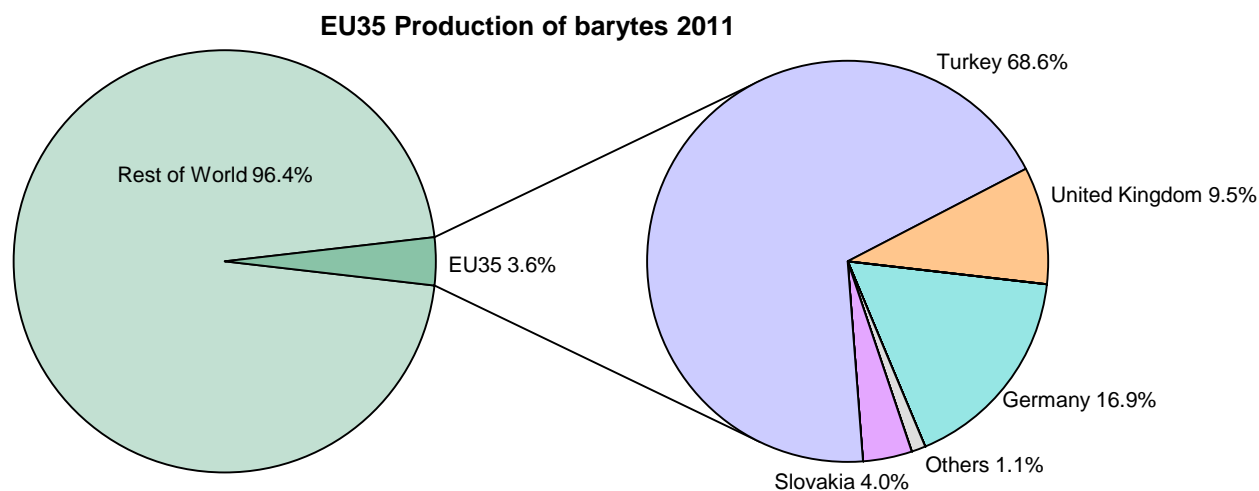
Asbestos - EU35 trade in 2011



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.

China was the world's largest producer in 2011, with 48 per cent of the total world output. The second largest was India (19 per cent), followed by Morocco (nine per cent), USA (seven per cent) and Iran (four per cent).

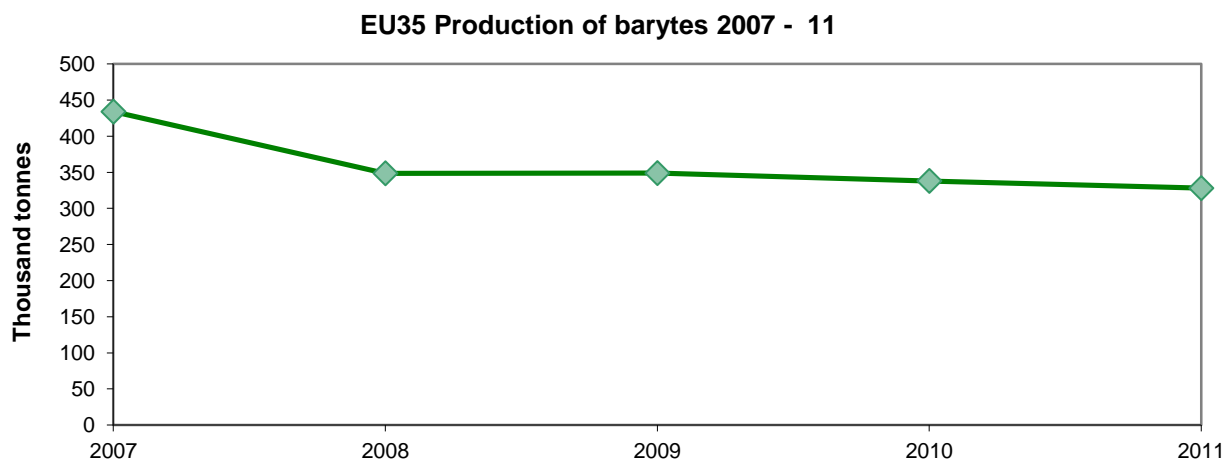


Production of barytes

Country	2007	2008	2009	2010	2011
Bulgaria	50 900	40 100	14 300	500	200
Germany	88 265	78 941	45 606	55 887	55 342
Italy	* 5 000	* 5 000	* 3 500	* 3 500	* 3 500
Poland	2 000	308	—	—	—
Portugal	25	171	1 078	15	—
Slovakia	58 000	20 000	30 000	17 000	13 000
Spain	26 770	11 100	5 212	2 050	—
Turkey	150 000	150 000	213 187	225 000	225 000
United Kingdom	53 000	43 000	36 000	34 099	31 000
EU35 Total	433 960	348 620	348 883	338 051	328 042

Note

(1) This table may include small quantities of witherite



Exports of barytes

tonnes

Country	2007	2008	2009	2010	2011
Austria	3 023	2 440	1 276	345	618
Belgium	506	1 381	2 638	3 216	213
Bulgaria	50 922	46 907	14 326	505	231
France (a)	* 37 100	* 10 000	* 11 500	* 10 500	* 10 600
Germany	43 104	38 111	45 360	(a)* 33 000	(a)* 34 000
Italy	2 239	1 238	2 890	1 906	2 623
Netherlands	68 798	58 740	121 567	79 880	71 719
Norway	13 425	5 608	4 069	12 071	8 008
Romania	...	...	1 812	258	2 009
Slovakia	9 174	685	6 309	641	230
Spain	31 693	33 676	29 776	32 427	34 285
Turkey	115 039	123 485	121 744	175 497	144 238
United Kingdom	9 242	9 976	13 095	17 851	15 648

Notes

(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

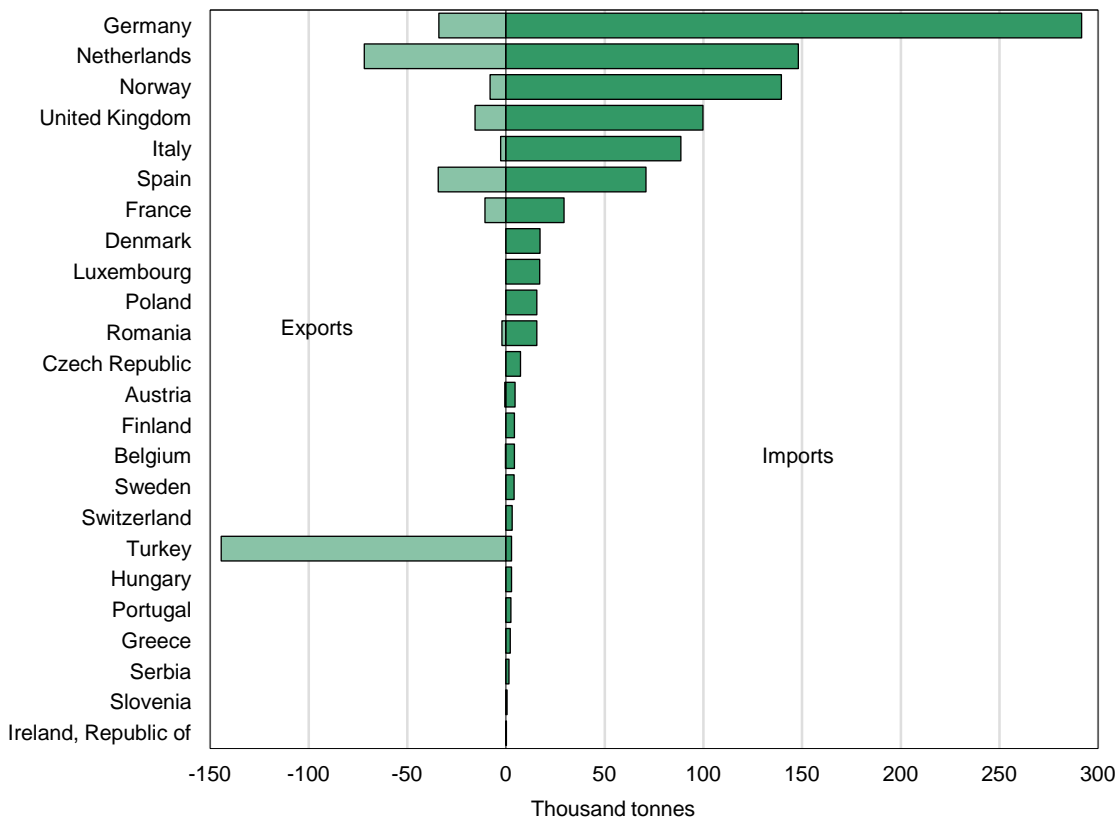
tonnes

Country	2007	2008	2009	2010	2011
Austria	4 898	6 234	2 733	3 115	4 711
Belgium	6 229	5 959	4 490	5 637	4 294
Croatia	98	1 525	889	710	125
Czech Republic	6 358	7 388	4 641	7 004	7 431
Denmark	38 096	22 324	27 656	14 178	17 322
Finland	5 018	4 735	2 573	4 406	4 383
France	40 760	34 166	26 227	41 513	29 516
Germany	320 702	278 335	129 220	263 839	291 716
Greece	1 255	1 348	2 133	1 318	2 277
Hungary	1 456	492	4 536	1 441	2 852
Ireland, Republic of	586	229	169	176	221
Italy	89 745	102 684	51 615	67 303	88 574
Luxembourg	29 556	27 726	16 377	17 182	17 049
Netherlands	148 808	122 039	43 928	161 343	148 240
Norway	127 181	121 259	146 535	149 510	139 620
Poland	10 895	14 334	8 349	11 758	15 723
Portugal	1 934	3 806	3 744	4 448	2 509
Romania	14 040	25 475	8 351	8 501	15 598
Serbia	86	111	0	421	1 494
Slovenia	585	596	530	457	609
Spain	65 569	71 025	30 503	106 611	70 896
Sweden	6 504	6 371	3 346	4 406	4 224
Switzerland	2 843	3 644	2 605	3 020	3 156
Turkey	741	455	507	342	2 863
United Kingdom	84 617	56 794	61 308	89 474	99 872

Note

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

Barytes - EU35 trade in 2011

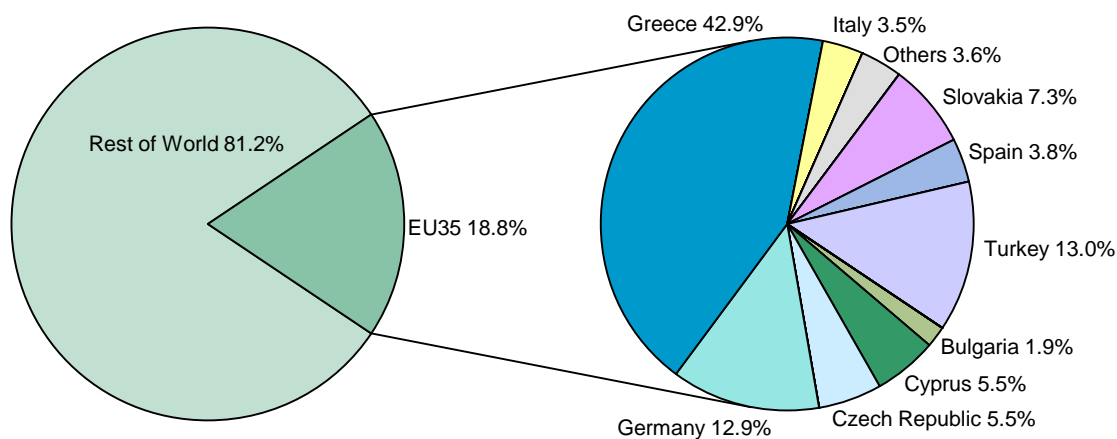


Bentonite and fuller's earth

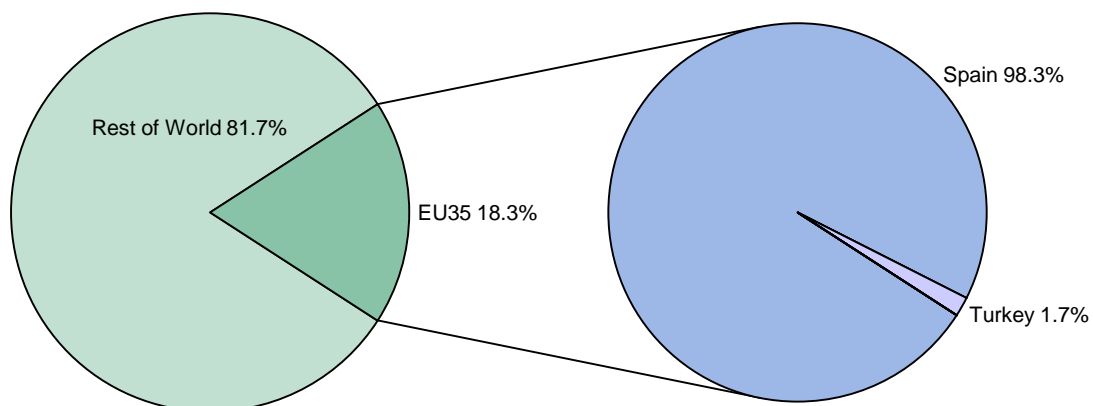
Bentonites consist of montmorillonite (a clay mineral) that occurs as two main varieties — calcium bentonite and the more commercially important sodium bentonite. In the UK the name fuller's earth is given to calcium bentonite (and in the USA, attapulgite). Sepiolite is a fibrous clay that can be a substitute 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.

USA was the world's largest producer of bentonite in 2011, with 32 per cent of the total world output. The second largest was China (22 per cent), followed by Greece (eight per cent), India (six per cent) and Mexico (four per cent). The USA was also the largest producer of fuller's earth.

EU35 Production of bentonite 2011



EU35 Production of attapulgite and sepiolite 2011



Production of bentonite and fuller's earth

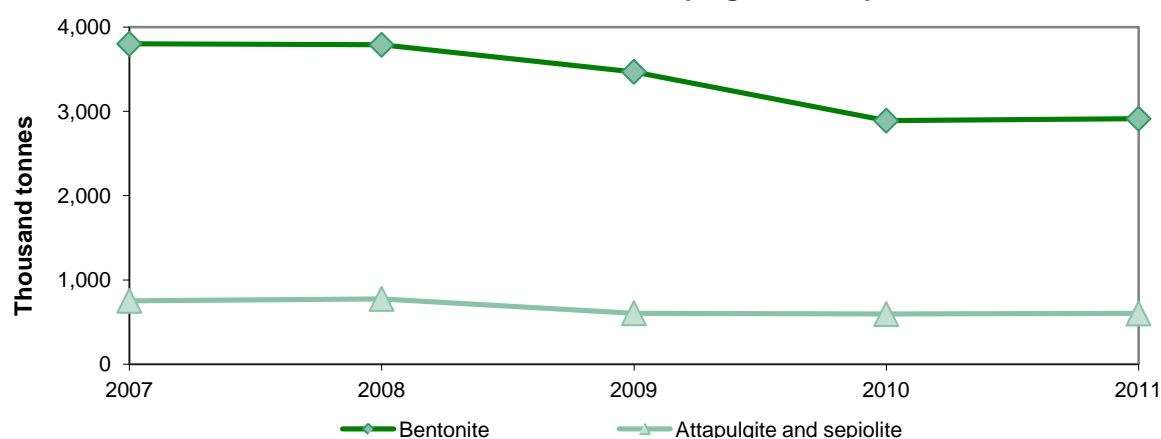
tonnes

Country	2007	2008	2009	2010	2011
Bulgaria					
Bentonite	99 000	178 700	108 400	99 700	53 900
Croatia					
Bentonite	19 578	19 759	—	—	—
Cyprus					
Bentonite	154 655	155 125	152 722	162 969	160 625
Czech Republic					
Bentonite	335 000	235 000	177 000	183 000	160 000
Denmark					
Bentonite	20 093	22 458	24 040	23 832	38 300
France					
Bentonite	...	...	25 000	25 000	20 000
Germany					
Bentonite	384 709	414 336	326 461	362 623	375 332
Greece					
Bentonite	1 342 000	1 580 000	1 500 000	844 804	1 250 000
Hungary					
Bentonite	54 231	6 220	5 298	17 200	17 308
Italy					
Bentonite	305 905	161 313	114 682	110 982	102 756
Macedonia					
Bentonite	22 509	13 689	9 033	7 084	8 914
Poland					
Bentonite	1 300	3 000	2 800	2 000	900
Romania					
Bentonite	16 911	16 638	13 756	21 637	19 864
Slovakia					
Bentonite	149 000	145 000	109 000	153 000	213 000
Slovenia					
Bentonite	130	160	104	135	168
Spain					
Bentonite	147 253	154 534	147 090	157 001	110 721
Attapulgite	24 615	27 348	21 110	27 841	26 031
Sepiolite	717 728	737 659	573 937	557 862	566 270
Turkey					
Bentonite	748 170	683 253	753 155	718 260	379 918
Sepiolite	* 10 000	* 10 000	* 10 000	* 10 000	—
EU35 Total					
Bentonite	3 825 000	3 814 000	3 469 000	2 889 000	2 912 000
Attapulgite and sepiolite	752 000	775 000	605 000	596 000	592 000

Notes

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

EU35 Production of bentonite, attapulgite and sepiolite 2007 - 11



Exports of bentonite and fuller's earth

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Bentonite	5 589	5 225	4 350	3 447	4 954
Belgium					
Bentonite	18 504	34 034	36 263	28 632	28 512
Bulgaria					
Bentonite	74 412	103 106	79 359	72 183	67 118
Cyprus					
Bentonite	156 871	92 089	95 674	98 803	114 923
Czech Republic					
Bentonite	97 358	105 403	99 584	120 859	143 788
Denmark					
Bentonite	19 495	15 734	13 004	13 787	13 827
Finland					
Bentonite	115	42	803	0	61
France					
Bentonite	13 454	12 231	9 211	12 709	11 472
Germany					
Bentonite	81 272	67 109	52 424	84 920	91 477
Greece					
Bentonite	168	8 885	5 116	13 203	33 306
Hungary					
Bentonite	849	1 191	555	954	782
Italy					
Bentonite	296 809	293 417	186 219	257 173	214 775
Lithuania					
Bentonite	5 457	1 929	266	442	1 628
Macedonia					
Bentonite	4 181	5 201	3 716	3 310	3 730
Montenegro					
Bentonite	3	1 384	24	48	27
Netherlands					
Bentonite	129 692	120 946	135 722	178 093	186 574
Norway					
Bentonite	254	157	294	3 726	318
Poland					
Bentonite	19 107	20 384	23 918	21 987	25 050
Portugal					
Bentonite	1 718	1 608	691	1 175	1 356
Serbia					
Bentonite	5 048	5 066	5 107	4 823	11 903
Slovakia					
Bentonite	89 517	79 936	65 429	32 981	85 760
Spain					
Bentonite	72 278	75 287	1 021 034	66 118	54 449
Sepiolite	474 788	460 485	418 644	...	...
Sweden					
Bentonite	12 240	11 640	5 588	3 457	3 300

Bentonite and fuller's earth

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Turkey					
Bentonite	22 237	244 177	250 082	307 891	319 189
United Kingdom					
Bentonite	47 122	43 261	34 622	41 323	38 478
Sepiolite	186	226	130	...	...

Notes

(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, eg Italy, but these are not included in the table

(5) From 2007 Harmonised System 2508.20, previously used in this table for fuller's earth, is no longer available

Imports of bentonite and fuller's earth

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Bentonite	58 727	68 703	66 575	90 229	83 313
Belgium					
Bentonite	42 671	74 216	62 885	72 971	91 291
Bulgaria					
Bentonite	2 979	3 386	2 422	2 548	2 591
Croatia					
Bentonite	7 633	39 289	22 383	7 852	16 906
Cyprus					
Bentonite	10 556	12 496	5 709	4 629	142
Czech Republic					
Bentonite	23 559	24 239	25 129	18 472	39 439
Denmark					
Bentonite	43 555	34 012	35 089	43 049	34 130
Estonia					
Bentonite	1 995	1 506	1 631	3 352	2 937
Finland					
Bentonite	37 741	31 445	19 429	16 293	21 194
France					
Bentonite	243 350	198 787	158 715	159 096	194 555
Germany					
Bentonite	351 991	361 782	335 990	386 261	447 793
Greece					
Bentonite	19 780	21 261	8 593	3 668	7 193
Hungary					
Bentonite	2 933	3 095	3 608	4 360	4 648
Iceland					
Bentonite	5 022	2 392	1 259	432	563
Ireland, Republic of					
Bentonite	2 916	2 643	2 741	2 734	2 623
Italy					
Bentonite	155 568	136 417	96 698	130 508	140 458
Latvia					
Bentonite	1 850	2 628	2 148	2 787	3 434
Lithuania					
Bentonite	3 105	3 068	3 368	4 378	6 250
Netherlands					
Bentonite	305 364	314 298	* 190 000	237 683	289 615
Norway					
Bentonite	14 399	14 783	12 612	14 506	12 668
Poland					
Bentonite	162 424	171 633	122 165	155 173	212 585
Portugal					
Bentonite	18 480	20 304	12 788	18 205	23 436
Romania					
Bentonite	5 253	6 014	3 859	4 825	6 341

Imports continued

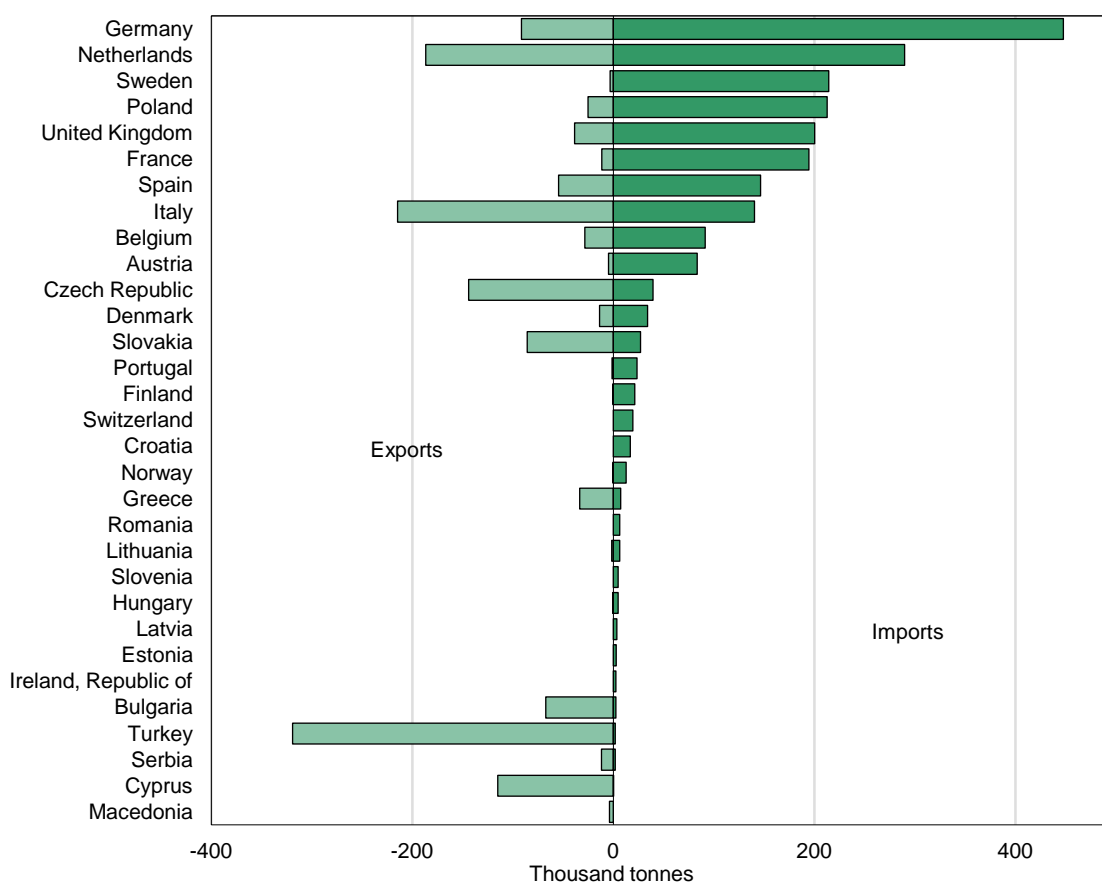
tonnes

Country	2007	2008	2009	2010	2011
Serbia					
Bentonite	2 701	3 370	2 274	1 683	1 804
Slovakia					
Bentonite	7 145	8 987	5 890	6 416	26 935
Slovenia					
Bentonite	4 048	3 976	4 421	4 191	4 790
Spain					
Bentonite	104 057	103 602	72 993	108 066	146 344
Sweden					
Bentonite	184 313	178 308	120 079	200 422	214 173
Switzerland					
Bentonite	21 334	21 876	20 407	20 362	19 316
Turkey					
Bentonite	10 541	9 806	1 827	1 641	1 915
United Kingdom					
Bentonite	157 388	205 853	140 301	141 849	200 332
Sepiolite	282 733	227 453	70 651	...	...

Notes

- (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, eg Italy, but these are not included in the table
- (5) From 2007 Harmonised System 2508.20, previously used in this table for fuller's earth, is no longer available

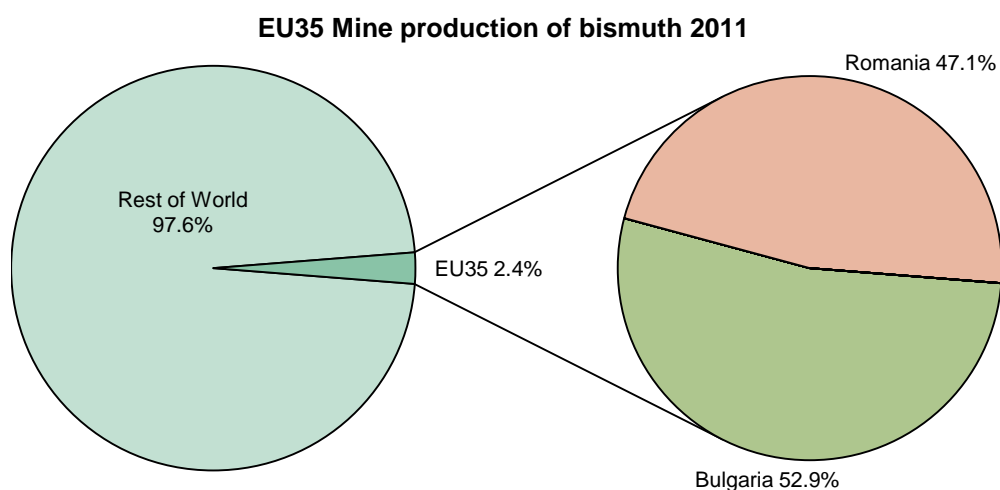
Bentonite - EU35 trade in 2011



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 was the world's largest producer in 2011, with 47 per cent of the total world output. The second largest was Mexico (28 per cent), followed by Japan (14 per cent), Australia and Canada (three per cent each). Bismuth is also produced as a by-product of lead and zinc refining.



Mine production of bismuth

tonnes

Country	2007	2008	2009	2010	2011
Bulgaria	* 45	* 45	* 45	* 45	* 45
Romania	* 40	* 40	* 40	* 40	* 40

Notes

- (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	2007	2008	2009	2010	2011
Austria	12	1	1	8	5
Belgium	355	162	413	1	6
Czech Republic	2	3	—	19	3
France	52	74	6	20	49
Germany	901	276	143	178	210
Italy	1	38	5	1	13
Netherlands	238	196	28	34	32
Norway	11	1	—	25	—
Spain	32	19	14	9	9
Sweden	0	1	106	11	1
United Kingdom	2 588	905	941	427	1 038

Imports of bismuth metal

tonnes

Country	2007	2008	2009	2010	2011
Austria	42	148	80	130	138
Belgium	111	190	9	1	45
Croatia	10	8	—	1	0
Czech Republic	70	78	53	106	264
France	382	219	102	100	205
Germany	1 130	1 262	881	1 052	1 282
Greece	11	3	—	—	12
Hungary	3	13	84	106	50
Ireland, Republic of	12	38	14	5	1
Italy	316	269	152	355	378
Netherlands	127	120	42	259	192
Poland	15	25	20	34	23
Slovenia	90	60	24	49	63
Spain	190	212	52	141	99
Sweden	5	12	6	12	2
Switzerland	8	12	12	25	18
Turkey	14	21	15	11	16
United Kingdom	1 908	1 582	310	366	411

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. USA was the world's largest producer in 2011, with 33 per cent of the total world output. The second largest was Israel (30 per cent), followed by China (23 per cent), Jordan (ten per cent) and Japan (three per cent).

Production of bromine

kilograms

Country	2007	2008	2009	2010	2011
Spain	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000

Exports of bromine

kilograms

Country	2007	2008	2009	2010	2011
Belgium	17 271 400	20 752 500	17 466 300	12 619 000	25 002 100
Finland	...	...	...	...	22 200
Germany	3 400	14 400	6 031	6 119	7 543
Italy	55 156	1 000	43	294	104
Netherlands	1 475 500	1 821 400	1 960 700	1 477 700	1 154 400
Poland	9 400	5 000	5 500	9 800	7 100
Spain	418 531	2 000	2 578	15 627	86 311
United Kingdom	1 469 781	1 015 304	497 246	780 704	1 472 523

Note

(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	2007	2008	2009	2010	2011
Austria	463 900	488 000	65 300	318 400	238 900
Belgium	21 768 500	26 540 000	20 618 700	18 693 500	28 221 500
Czech Republic	7 700	12 000	2 600	3 100	...
Finland	100	146 800	242 982	318 478	322 231
France	12 146 400	12 428 800	11 720 470	5 275 994	8 449 327
Germany	607 500	646 400	456 893	657 303	722 036
Hungary	(a) 29 143	9 900	10 500	4 500	8 800
Italy	374 426	598 800	958 588	1 259 187	1 207 042
Netherlands (a)	4 403	7 661	63 310	321 599	114 504
Poland	14 300	10 600	6 100	17 200	11 200
Romania (a)	152 319	267 073	285 593	230 850	230 850
Spain	77 578	169 159	75 099	222 746	250 417
Sweden	2 800	31 700	3 100	4 200	4 300
Turkey (a)	28 424	6 761	6 497	8 373	11 462
United Kingdom	5 266 339	5 903 423	6 534 300	5 787 829	9 485 963

Notes

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

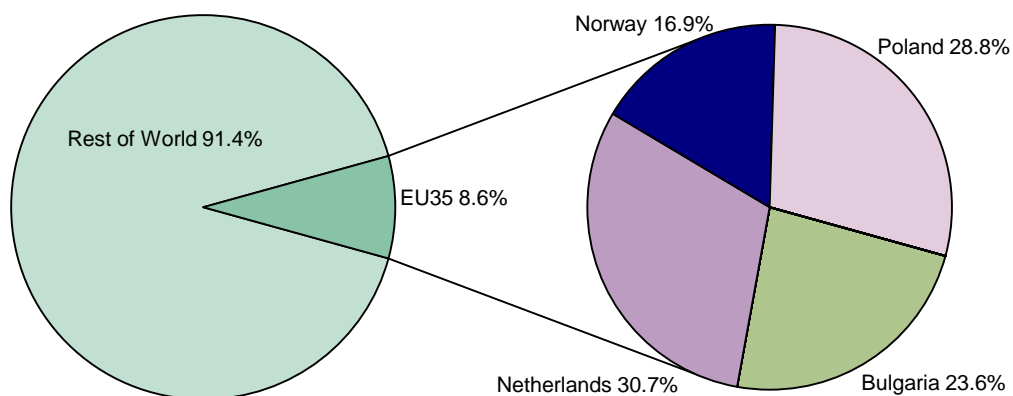
(a) May include some fluorine

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.

China was the world's largest producer in 2011, with 35 per cent of the total world output. The second largest was South Korea (14 per cent), followed by Japan (eight per cent), Mexico and Kazakhstan (seven per cent each).

EU35 Production of cadmium 2011



Production of cadmium

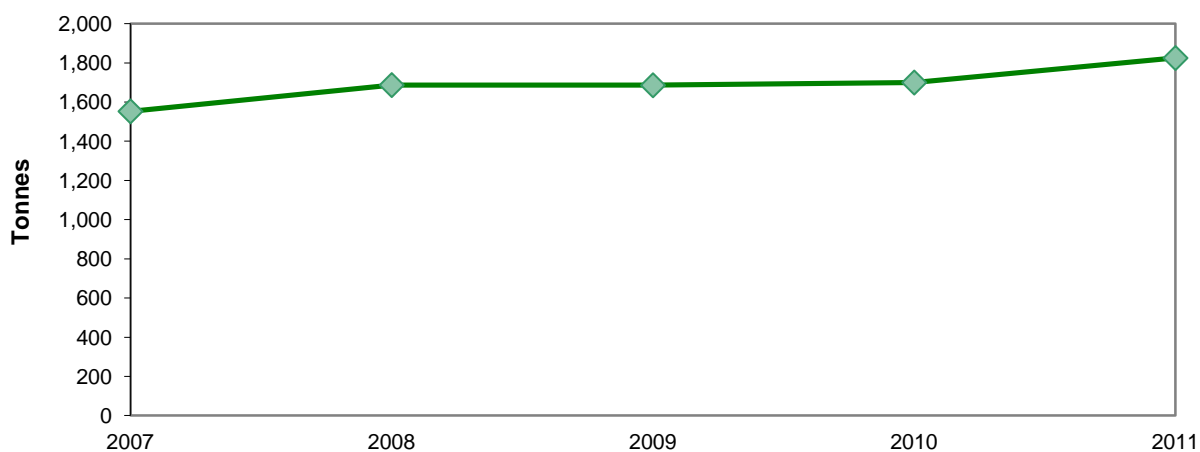
tonnes

Country	2007	2008	2009	2010	2011
Bulgaria	318	376	413	389	* 430
France	50	—	—	—	—
Netherlands	495	530	* 490	* 560	* 560
Norway	269	178	249	300	309
Poland	421	603	534	451	526
EU35 Total	1 553	1 687	1 686	1 700	1 825

Note

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

EU35 Production of cadmium 2007 - 11



Cadmium

Exports of cadmium

tonnes

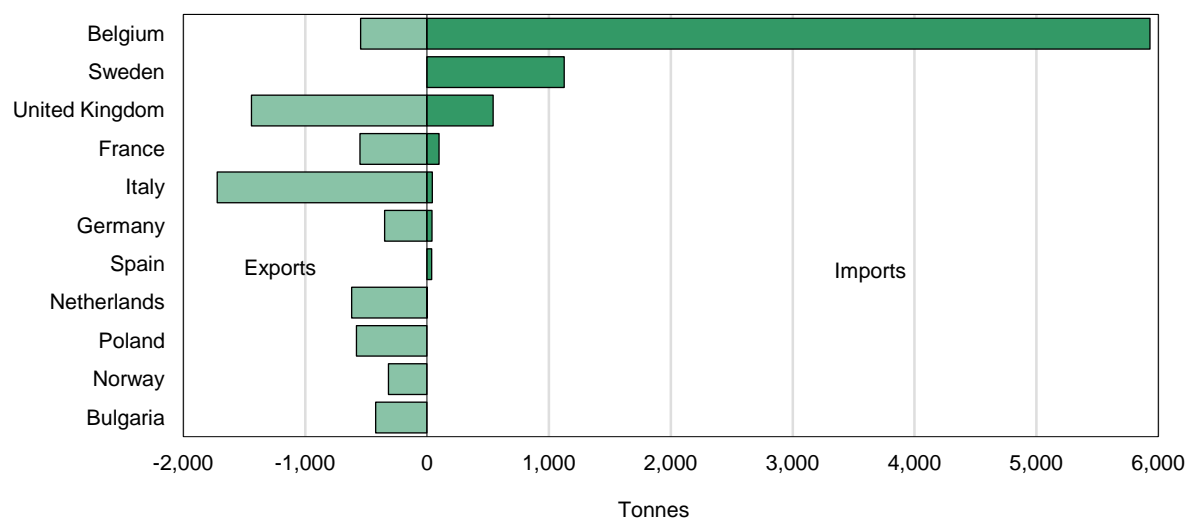
Country	2007	2008	2009	2010	2011
Belgium					
Metal	181	442	452	459	545
Oxide	6 160	4 677	4 033	4 413	3 734
Bulgaria					
Metal	434	374	569	474	421
France					
Metal	815	890	1 022	763	549
Germany					
Metal	...	287	276	523	348
Italy					
Metal	796	1 633	2 030	3 104	1 722
Netherlands					
Metal	544	816	305	606	617
Norway					
Metal	205	259	211	329	317
Poland					
Metal	368	558	590	484	579
Sweden					
Oxide	322	448	305	360	429
United Kingdom					
Metal	76	54	25	2 545	1 441

Imports of cadmium

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Metal	5 038	5 511	3 439	6 456	5 932
Oxide	2	10	28	43	109
Czech Republic					
Oxide	338	463	396	464	487
France					
Metal	771	645	455	212	100
Oxide	885	1 114	605	18	7
Germany					
Metal	22	53	11	18	40
Oxide	423	507	522	625	489
Greece					
Metal	1	18	39	1	0
Italy					
Metal	40	49	43	3	44
Netherlands					
Metal	437	186	50	102	1
Spain					
Metal	0	21	118	153	38
Sweden					
Metal	491	851	588	825	1 127
Oxide	25	83	42	107	172
United Kingdom					
Metal	276	212	246	470	542
Oxide	438	386	181	309	281

Cadmium metal - EU35 trade in 2011



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.

Production of cement clinker

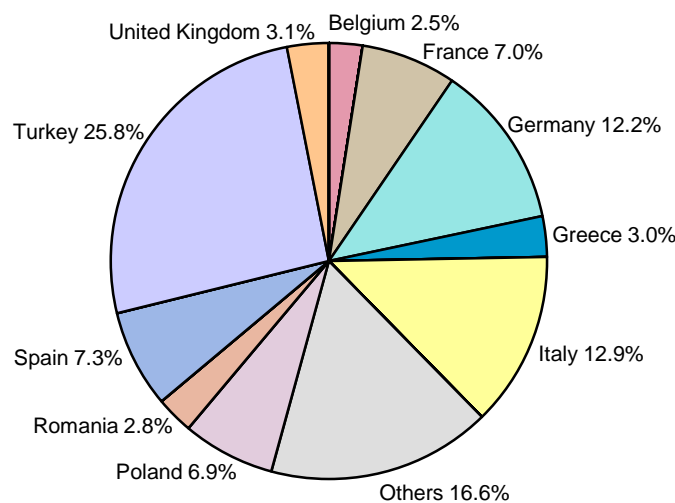
tonnes

Country	2007	2008	2009	2010	2011
Austria	221 684	287 911	160 223	54 369	131 734
Belgium	...	...	1 123 722	858 871	* 900 000
Bulgaria	...	3 509 817	1 858 850	2 071 100	1 475 700
Cyprus	—	—	30 286	—	—
Czech Republic	3 127 530	3 137 828	2 433 746	2 260 561	2 617 072
Denmark	21 209	16 092	122	3 819	25
Estonia	1 042 800	1 040 000	448 500	537 000	719 000
France	18 046 000	16 885 000	14 568 000	14 901 000	15 229 000
Germany	26 992 000	25 366 000	23 232 000	22 996 000	24 775 000
Greece	12 035 077	11 361 397	8 649 322	7 875 996	9 041 421
Hungary	2 500 698	* 2 500 000	* 2 400 000	* 2 400 000	1 167 942
Italy (a)	1 088 402	957 371	637 853	966 577	1 286 791
Latvia	...	...	...	1 158 000	1 277 000
Lithuania	* —	—	233 292	—	—
Luxembourg	817 000	761 800	706 426	736 000	770 232
Poland	13 167 950	12 443 103	10 659 214	11 768 000	13 630 000
Portugal (a)	1 513 487	1 760 510	1 749 406	1 102 976	1 948 137
Romania	222 699	111 719	—	—	33 363
Slovakia	...	...	1 822 820	1 607 025	1 823 306
Spain	32 045 543	27 304 551	21 594 604	21 234 637	* 17 500 000
Sweden	1 712 626	1 881 054	1 702 019	1 790 784	* 1 750 000
Turkey	39 363 683	41 652 824	41 084 368	54 222 939	* 54 000 000
United Kingdom	10 227 000	9 478 000	6 420 000	6 598 000	7 096 000
EU35 Total	164 145 388	160 454 977	141 514 772	155 143 654	157 171 723

Note

(a) Sales

EU35 Production of finished cement 2011



Production of finished cement

tonnes

Country	2007	2008	2009	2010	2011
Austria	5 518 303	6 131 257	4 847 862	4 499 402	4 700 040
Belgium	6 930 000	7 135 000	6 113 000	5 990 000	6 844 000
Bulgaria	* 4 290 000	4 900 336	2 660 176	—	1 891 981
Cyprus	1 872 531	1 913 620	1 480 843	1 328 763	1 206 786
Czech Republic	4 898 530	4 804 845	3 851 100	3 558 536	4 052 558
Denmark	2 871 402	2 538 822	1 578 614	1 566 624	1 852 804
Estonia	937 400	808 000	326 200	375 000	451 000
Finland (a)	1 771 000	1 638 000	1 041 866	1 204 581	1 379 760
France	22 268 000	21 443 000	18 300 000	17 998 000	19 433 000
Germany	33 382 000	33 581 000	30 441 000	29 915 000	33 540 000
Greece	14 559 293	14 013 312	11 160 205	9 319 207	8 285 371
Hungary	3 551 746	3 544 000	* 3 200 000	* 2 560 000	* 2 500 000
Ireland, Republic of	* 4 700 000	* 3 910 000	* 2 720 000	* 2 290 000	* 1 700 000
Italy	45 590 422	42 863 063	33 611 625	37 061 576	35 687 105
Latvia	* 300 000	* 310 000	* 650 000	* 1 100 000	* 1 100 000
Lithuania	1 105 365	1 075 581	583 067	834 000	996 284
Luxembourg	908 000	907 500	929 820	1 030 700	1 232 633
Netherlands	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000
Norway	1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
Poland	17 120 000	17 206 735	15 536 984	15 756 000	18 929 000
Portugal (a)	9 178 735	8 365 242	7 031 438	3 855 312	6 507 016
Romania	9 844 706	10 461 456	7 902 328	7 008 422	7 646 612
Slovakia	3 718 410	4 157 356	3 011 460	2 887 749	3 219 557
Slovenia	* 1 300 000	* 1 300 000	* 1 000 000	* 1 000 000	* 1 000 000
Spain	54 720 445	42 088 110	29 504 574	26 217 200	* 20 000 000
Sweden	2 950 000	* 2 950 000	* 2 900 000	* 2 900 000	* 2 900 000
Switzerland (b)	4 252 574	4 238 311	4 333 096	4 553 077	4 687 138
Turkey	50 995 107	54 027 283	55 741 176	70 800 657	* 71 000 000
United Kingdom (c)	11 887 000	10 071 000	7 623 000	7 882 000	8 529 000
EU35 Total	325 820 969	310 782 829	262 479 434	267 891 806	275 671 645

Notes

(a) Sales

(b) Includes production in Liechtenstein

(c) Great Britain only

EU35 Production of finished cement 2007 - 11

Cement

Exports of cement

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Cement clinkers	189 450	243 906	146 991	46 560	173 312
Portland cement	314 112	344 338	272 440	213 082	330 710
Other cement	59 361	82 570	56 934	50 592	25 432
Belgium					
Cement clinkers	916 787	893 494	936 451	582 766	744 707
Portland cement	2 008 842	1 960 360	1 722 252	1 676 150	1 729 402
Other cement	575 332	556 870	417 798	410 909	353 126
Bulgaria					
Cement clinkers	353 996	120 588	14 836	5 246	8 131
Portland cement	52 803	130 932	109 923	164 404	190 570
Other cement	1 067	22 589	394	1 772	6 516
Croatia					
Cement clinkers	310 378	235 377	169 394	176 403	103 281
Portland cement	855 579	667 503	615 827	639 236	1 189 738
Other cement	94 185	468 597	276 981	601 470	180 836
Cyprus					
Cement clinkers	0	0	24 215	—	—
Portland cement	51 022	—	27 324	12 866	42 438
Czech Republic					
Cement clinkers	29 924	19 039	85 427	88 236	169
Portland cement	458 701	436 600	374 515	402 537	844 920
Other cement	151 422	196 133	156 650	218 689	232
Denmark					
Cement clinkers	9 673	7 287	7 784	11 884	2 689
Portland cement	1 094 730	969 666	568 656	731 730	813 938
Other cement	16 222	25 482	20 751	3 860	4 175
Estonia					
Cement clinkers	325 263	426 384	395 641	222 190	426 994
Portland cement	274 997	383 449	120 294	148 505	186 255
Other cement	452	1 387	59	488	752
Finland					
Portland cement	982	2 618	1 275	373	92
France					
Cement clinkers	325 897	260 529	170 883	282 673	179 184
Portland cement	590 684	578 230	621 568	766 167	764 305
Other cement	13 999	10 056	—	—	—
Germany					
Cement clinkers	1 051 733	1 120 078	467 042	680 552	761 406
Portland cement	4 874 062	5 115 858	4 445 980	4 173 112	5 002 240
Other cement	2 086 591	2 077 175	2 101 709	2 010 734	2 159 075
Greece					
Cement clinkers	848 925	722 151	851 946	722 142	459 716
Portland cement	2 685 623	2 842 584	3 051 954	3 122 615	1 548 482
Other cement	207 665	205 640	297 036	47 435	155 000
Hungary					
Cement clinkers	—	—	1 701	296	25
Portland cement	177 191	329 647	220 069	185 279	277 497
Other cement	4 448	25 169	2 987	795	6 451
Ireland, Republic of					
Cement clinkers	16 033	—	4 823	1	—
Portland cement	1 120 808	1 144 186	1 054 533	1 025 910	942 940
Other cement	1 596	1 512	1 317	8 787	1 158
Italy					
Cement clinkers	143 235	38 106	5 280	52 673	45 472
Portland cement	2 143 940	2 094 130	1 637 605	2 035 118	1 681 397
Other cement	536 324	491 150	469 636	393 746	250 624
Latvia					
Cement clinkers	35 307	—	2 382	68 802	201 050
Portland cement	43 951	240 311	147 960	562 435	673 260
Other cement	10 178	20	126	76	250
Lithuania					
Cement clinkers	560	130	39 878	14	98
Portland cement	154 649	204 951	170 273	352 750	450 601
Other cement	893	1 531	491	1 151	406

Cement

tonnes

Exports continued

Country	2007	2008	2009	2010	2011
Luxembourg					
Cement clinkers	161 362	181 689	58 463	7 695	4 215
Portland cement	78 252	109 447	119 660	341 075	424 306
Other cement	31 475	264 233	137 975	219 688	320 980
Macedonia					
Cement clinkers	90 869	173 089	5 638	...	0
Portland cement	308 468	281 782	361 677	315 074	277 326
Montenegro					
Portland cement	...	...	...	...	2 372
Netherlands					
Cement clinkers	10 725	0	352	34	3 911
Portland cement	278 904	298 133	194 392	201 065	310 479
Other cement	12 931	6 217	11 447	57 922	150 175
Norway					
Cement clinkers (a)	* 117 000	* 118 000	* 104 000	* 150 000	* 251 000
Portland cement (a)	* 236 000	* 152 000	* 14 200	* 144 000	* 94 000
Poland					
Cement clinkers	181 690	163 902	127 806	89 692	46 295
Portland cement	313 361	314 733	405 940	415 187	358 847
Other cement	65 822	78 349	35 305	22 984	17 523
Portugal					
Cement clinkers	1 263 190	1 448 397	1 553 992	1 888 362	916 431
Portland cement	1 481 219	1 102 589	758 854	996 778	1 345 607
Other cement	58 931	11 139	15 231	10 440	8 111
Romania					
Cement clinkers	243 116	111 719	182	265	24 810
Portland cement	134 044	7 449	17 869	20 039	278 795
Serbia					
Cement clinkers	357 633	385 154	66 309	...	...
Portland cement	83 126	138 375	76 539	156 477	115 432
Other cement	3 060	2 560	125	33	28
Slovakia					
Cement clinkers	30 800	53 871	127 016	69 366	44 607
Portland cement	1 346 692	1 622 292	1 344 258	1 396 241	1 795 235
Other cement	85 987	144 311	217 328	21 660	10
Slovenia					
Cement clinkers	2	1	—	42 475	140 361
Portland cement	55 803	77 656	96 736	168 056	200 615
Other cement	156 183	227 400	97 258	4 731	988
Spain					
Cement clinkers	37 343	907 694	1 181 783	1 545 705	1 590 245
Portland cement	1 358 857	1 474 428	1 411 588	2 768 457	2 577 325
Other cement	46 348	63 825	74 007	87 864	184 099
Sweden					
Cement clinkers	32	217	577 571	505 585	267 884
Portland cement	845 235	723 793	482 223	467 559	590 443
Other cement	15 237	14 082	7 166	5 819	7 120
Switzerland					
Cement clinkers	114 075	91 167	70 207	6 983	104
Portland cement	13 704	35 925	15 044	103 952	63 262
Other cement	4 014	9 009	4 062	2 959	51
Turkey					
Cement clinkers	1 539 287	2 558 779	3 856 403	2 792 332	2 472 979
Portland cement	4 323 666	11 010 951	16 356 895	15 842 398	11 750 755
Other cement	124 395	150 785	245 770	415 763	315 159
United Kingdom					
Cement clinkers	28 432	15 071	4 708	5 500	15 531
Portland cement	459 629	230 920	92 628	134 223	121 537
Other cement	88 452	93 122	51 359	56 781	62 333

Note

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

Cement

Imports of cement

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Cement clinkers	520 714	456 127	404 998	407 616	393 132
Portland cement	626 723	753 529	639 545	637 550	913 116
Other cement	39 568	40 766	52 715	71 535	60 349
Belgium					
Cement clinkers	746 734	627 133	684 634	740 528	717 664
Portland cement	860 913	954 591	819 923	1 030 282	1 113 638
Other cement	368 325	292 741	252 247	172 609	158 441
Bulgaria					
Cement clinkers	123 806	248 737	45 002	16 167	17 478
Portland cement	5 690	13 645	481 991	448 220	431 780
Other cement	1 829	1 110	955	2 510	6 147
Croatia					
Cement clinkers	27 488	50	1	967	144
Portland cement	340 112	393 886	393 613	344 352	326 526
Other cement	5 242	7 447	10 620	7 619	4 200
Cyprus					
Cement clinkers	17 498	66 787	15 455	29 579	69 780
Portland cement	1 017	29 311	249	2 512	545
Czech Republic					
Cement clinkers	109 392	134 179	101 031	121 682	44 577
Portland cement	918 739	932 685	890 776	702 257	765 382
Other cement	30 602	23 816	51 482	48 336	31 074
Denmark					
Cement clinkers	35 555	33 825	31 847	23 732	29 888
Portland cement	243 348	289 307	208 467	180 249	244 007
Other cement	52 662	38 687	46 117	38 797	19 941
Estonia					
Cement clinkers	31 127	25 438	—	13 474	(b)* 1 800
Portland cement	2 536	4 613	30 424	36 354	52 807
Finland					
Cement clinkers	314 436	236 439	536	14 191	16 790
Portland cement	341 748	281 924	320 084	587 410	549 673
Other cement	16 006	15 911	12 232	10 202	16 408
France					
Cement clinkers	1 739 962	1 338 362	784 892	838 538	849 577
Portland cement	1 793 027	1 940 065	1 744 423	2 422 582	3 113 977
Other cement	1 223 442	1 185 083	980 685	559 436	246 702
Germany					
Cement clinkers	92 757	14 184	9 200	18 037	52 111
Portland cement	833 311	770 566	904 023	939 310	1 054 856
Other cement	311 152	293 583	272 741	255 027	217 931
Greece					
Cement clinkers	45 388	23 558	4 249	12 100	34 712
Portland cement	3 603	74 239	136 300	206 164	159 514
Other cement	3 010	2 618	2 359	15 136	22 371
Hungary					
Cement clinkers	40 099	...	117 232	69 469	67 770
Portland cement	560 863	643 776	565 552	495 045	785 166
Other cement	144 824	55 798	49 051	34 191	33 802
Iceland					
Cement clinkers	17 978	628	30	42	49
Portland cement	166 488	111 918	38 640	24 481	26 714
Other cement	868	505	241	4 405	226
Ireland, Republic of					
Cement clinkers	330 948	36 153	31 983	15 459	23 190
Portland cement	664 977	780 528	192 556	133 977	100 440
Other cement	16 409	14 649	10 698	4 974	4 112
Italy					
Cement clinkers	2 827 333	2 095 716	1 495 609	797 703	844 108
Portland cement	1 162 254	962 746	1 433 820	1 298 080	1 119 225
Other cement	287 190	295 988	308 222	139 459	125 066
Latvia					
Cement clinkers	29 438	30 233	34 375	158	6 551
Portland cement	431 482	353 174	87 660	94 873	89 751

Imports continued

Country	2007	2008	2009	2010	2011
Lithuania					
Cement clinkers	104 219	79 102	996	176 461	227 793
Portland cement	170 955	111 578	133 039	122 178	144 824
Luxembourg					
Cement clinkers	51 936	36 976	17 827	27 238	34 532
Portland cement	32 068	33 617	56 666	34 642	42 548
Other cement	23 525	22 879	16 255	12 119	14 934
Macedonia					
Cement clinkers	1	...	13 541	1 191	8 932
Portland cement	69 220	136 030	193 076	185 378	148 954
Other cement	...	797	397	1 213	409
Malta					
Portland cement	356 365	374 392	328 411	285 182	258 304
Other cement	2 949	1 498	1 552	13 002	6 676
Montenegro					
Portland cement	557 771	517 062	279 497	266 063	250 759
Other cement	6 169	214 958	171 150	116 132	90 911
Netherlands					
Cement clinkers	228 817	380 281	511 560	636 694	424 274
Portland cement	2 072 034	1 705 144	904 788	1 123 936	1 580 140
Other cement	722 635	993 318	842 190	1 136 163	1 475 035
Norway					
Cement clinkers	14 895	36 704	6 904	7 070	170
Portland cement	441 619	361 216	237 896	353 102	409 018
Other cement	19 062	22 317	20 474	21 621	25 809
Poland					
Cement clinkers	65 632	127 428	35 106	111 677	35 663
Portland cement	520 330	680 447	421 822	565 893	932 507
Other cement	22 982	29 529	21 466	26 247	25 467
Portugal					
Cement clinkers	331 025	196 929	24 156	24 143	3 238
Portland cement	45 012	22 862	150 065	186 170	134 000
Other cement	11 966	8 842	11 072	11 771	5 043
Romania					
Cement clinkers	500 794	486 462	23 613	75 812	144 547
Portland cement	142 476	538 259	296 687	307 977	239 373
Other cement	12 072	32 765	15 779	22 004	21 297
Serbia					
Cement clinkers	...	24 795	...	1 321	5 309
Portland cement	13 618	62 283	41 744	52 582	92 665
Other cement	860	1 124	1 003	728	784
Slovakia					
Cement clinkers	52 608	94 510	13 076	6 380	9 706
Portland cement	123 589	172 555	284 457	256 358	281 910
Other cement	58 035	93 031	56 060	34 733	102 134
Slovenia					
Cement clinkers	145 638	5 783	60	129	95 704
Portland cement	328 312	326 096	297 617	328 563	334 053
Other cement	17 037	4 618	17 414	17 328	8 237
Spain					
Cement clinkers	10 894 888	5 496 563	2 079 944	1 342 279	490 164
Portland cement	2 929 208	1 729 088	694 757	637 322	450 416
Other cement	74 401	58 007	73 362	14 516	15 894
Sweden					
Cement clinkers	29 344	37 009	10 434	36 629	58 132
Portland cement	55 784	61 891	29 482	348 431	419 332
Other cement	52 359	50 333	37 308	36 399	42 002
Switzerland					
Cement clinkers	15 292	8 596	27 649	74 946	46 117
Portland cement	348 262	361 305	364 034	465 699	538 979
Other cement	37 522	30 908	36 464	49 549	73 361
Turkey					
Cement clinkers	1 360 090	380 516	6 053	58 176	10 511
Portland cement	39 270	12 279	13 471	5 875	3 406
Other cement	4 202	5 036	3 358	6 168	10 847

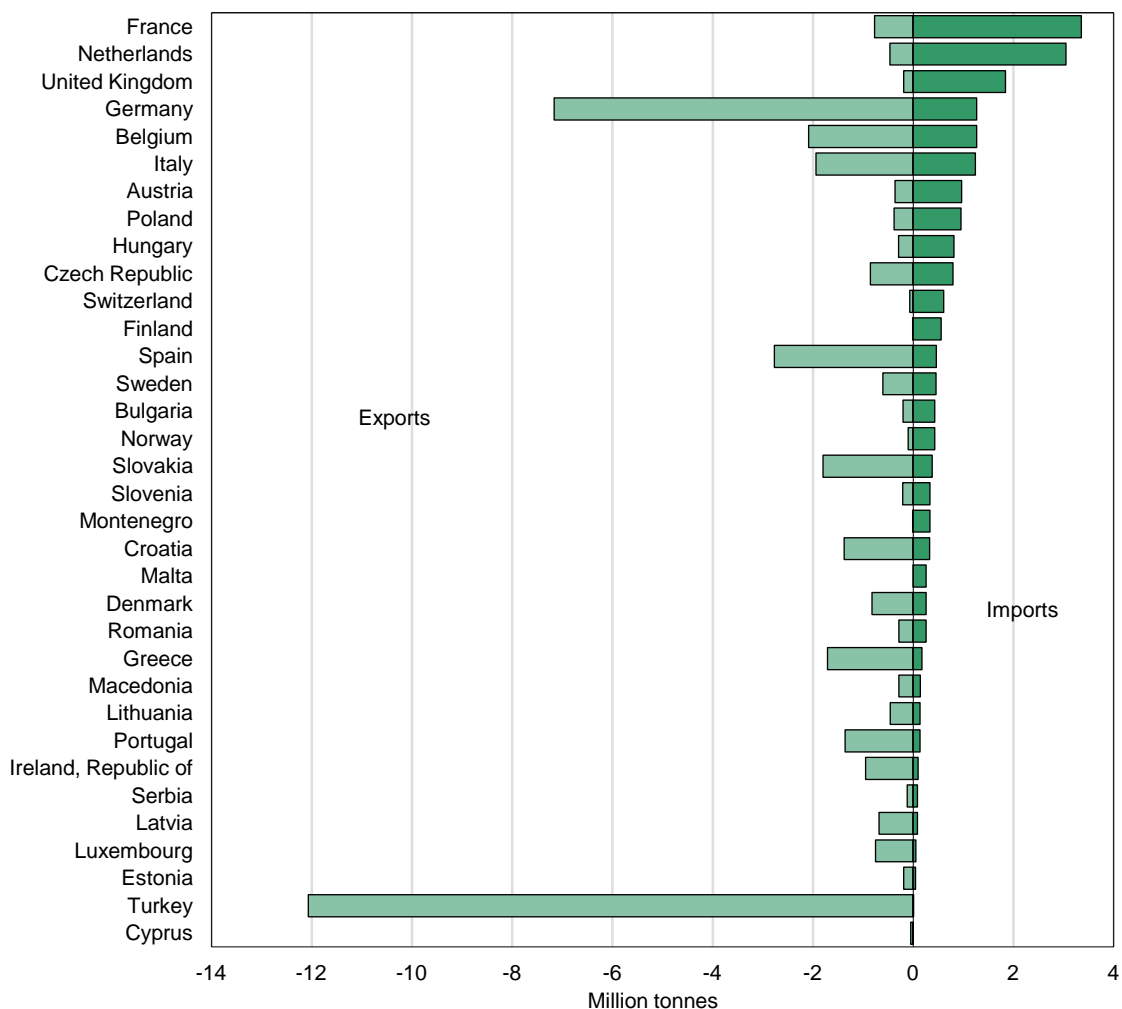
Cement

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
United Kingdom					
Cement clinkers	836 788	366 791	206 857	201 308	208 595
Portland cement	1 534 683	1 731 228	1 718 146	1 759 841	1 746 862
Other cement	26 215	28 324	30 815	92 031	100 453

Cement - EU35 trade in 2011

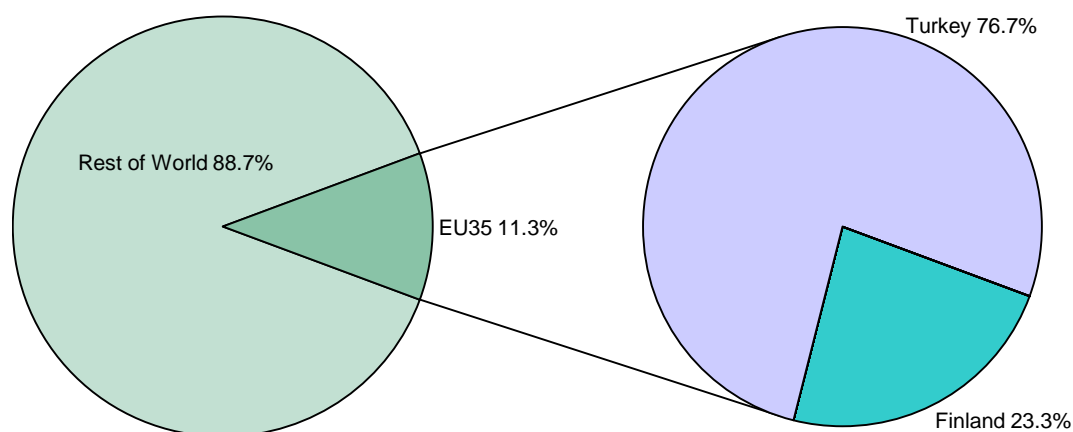


Chromium

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.

South Africa was the world's largest producer in 2011, with 41 per cent of the total world output. The second largest was Kazakhstan (19 per cent), followed by India (14 per cent), Turkey (nine per cent) and Finland (three per cent).

EU35 Production of chromium ores and concentrates 2011



Production of chromium ores and concentrates

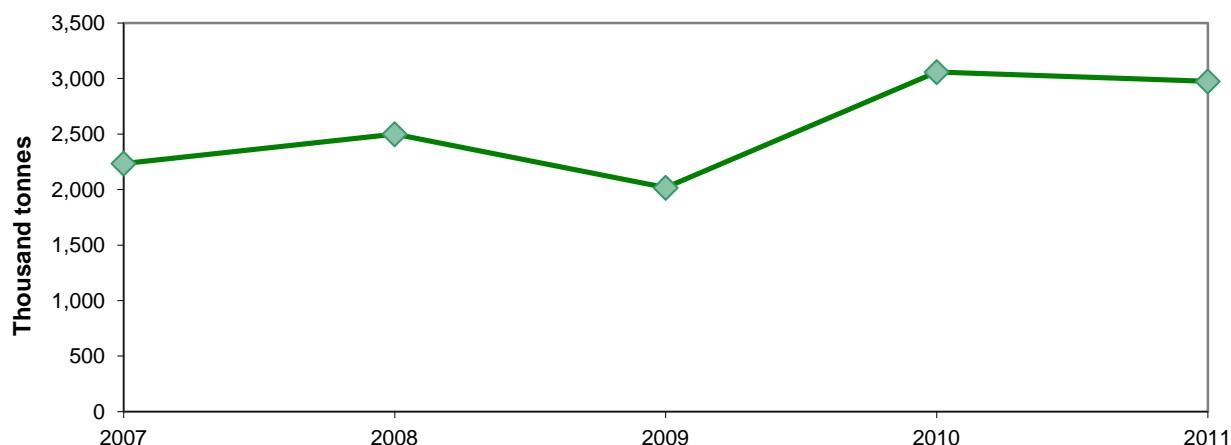
tonnes

Country	2007	2008	2009	2010	2011
Finland	556 000	614 000	247 000	598 000	693 000
Turkey	1 678 932	1 885 712	1 770 029	2 461 314	2 281 981
EU35 Total	2 234 932	2 499 712	2 017 029	3 059 314	2 974 981

Note

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

EU35 Production of chromium ores and concentrates 2007 - 11



Exports of chromium

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Ores and concentrates	491	833	333	4	1 163
Metal	14 739	6 596	5 845	10 245	2 138
Belgium					
Ores and concentrates	11 339	48 086	15 562	18 415	13 945
Metal	635	772	1 226	1 311	1 010
Czech Republic					
Ores and concentrates	800	507	369	764	1 140
Metal	946	594	662	21	103
Denmark					
Metal	549	1 262	659	1 056	601
Finland					
Ores and concentrates	2 492	3 041	2 050	8 291	5 231
Metal	—	1 034	1 577	1 813	2 366
France					
Ores and concentrates	2 391	4 694	1 935	2 422	2 168
Metal	7 225	7 844	4 767	7 612	8 034
Germany					
Ores and concentrates	20 629	23 563	15 922	32 070	53 989
Metal	3 114	5 379	4 685	4 606	2 995
Italy					
Ores and concentrates	3 980	2 567	1 762	1 617	3 764
Metal	1 666	166	29	5	1
Lithuania					
Ores and concentrates	1 156	240	78	46	19
Macedonia					
Ores and concentrates	1 835	160	...	...	...
Netherlands					
Ores and concentrates	78 433	117 639	32 485	74 483	126 012
Metal	2 125	4 282	885	3 569	2 197
Norway					
Metal	96	128	85	97	78
Poland					
Ores and concentrates	147	66	107	425	3 604
Metal	1 556	1 465	861	7 948	7 135
Slovakia					
Metal	1 116	1 299	424	777	83
Slovenia					
Metal	4	111	14	123	174

Exports continued						tonnes
Country	2007	2008	2009	2010	2011	
Spain						
Ores and concentrates	1 529	1 073	1 022	600	1 252	
Metal	779	1 165	516	665	237	
Sweden						
Metal	102	225	100	191	167	
Turkey						
Ores and concentrates	1 265 036	1 816 427	1 748 194	2 256 387	2 161 001	
Metal	7	122	2 667	184	1 930	
United Kingdom						
Ores and concentrates	178	—	32 507	297	168	
Metal	6 777	6 501	5 058	7 441	8 017	

Notes

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

Imports of chromium

Imports of chromium						tonnes
Country	2007	2008	2009	2010	2011	
Austria						
Ores and concentrates	39 071	42 008	25 891	54 945	20 921	
Metal	14 480	8 006	4 325	6 109	7 868	
Belgium						
Ores and concentrates	20 761	56 183	19 050	25 350	22 896	
Metal	1 177	1 097	871	1 593	3 023	
Bulgaria						
Ores and concentrates	969	793	637	671	971	
Croatia						
Ores and concentrates	584	568	282	143	190	
Metal	280	394	307	419	345	
Czech Republic						
Ores and concentrates	13 936	12 990	7 798	7 975	7 986	
Metal	281	282	83	514	139	
Denmark						
Ores and concentrates	945	974	384	480	864	
Finland						
Ores and concentrates	9 324	8 866	4 521	9 197	20 853	
Metal	282	327	105	139	194	
France						
Ores and concentrates	20 156	26 952	10 813	11 273	15 835	
Metal	717	1 335	478	1 155	524	
Germany						
Ores and concentrates	154 367	175 277	45 684	101 972	180 377	
Metal	8 454	7 022	3 328	4 783	5 931	
Ireland, Republic of						
Metal	101	120	138	83	179	
Italy						
Ores and concentrates	46 433	36 552	23 842	22 012	31 861	
Metal	902	721	943	881	1 738	
Macedonia						
Ores and concentrates	1 432	306	495	294	512	
Netherlands						
Ores and concentrates	125 778	145 698	18 702	88 788	135 776	
Metal	2 222	3 897	2 157	6 642	5 773	
Norway						
Ores and concentrates (a)	* 20	* 600	* 400	* 60	* 490	
Metal	253	128	74	90	437	
Poland						
Ores and concentrates	38 543	36 646	12 728	15 672	30 863	
Metal	1 717	2 137	679	103	4 533	

Chromium

Imports continued

tonnes

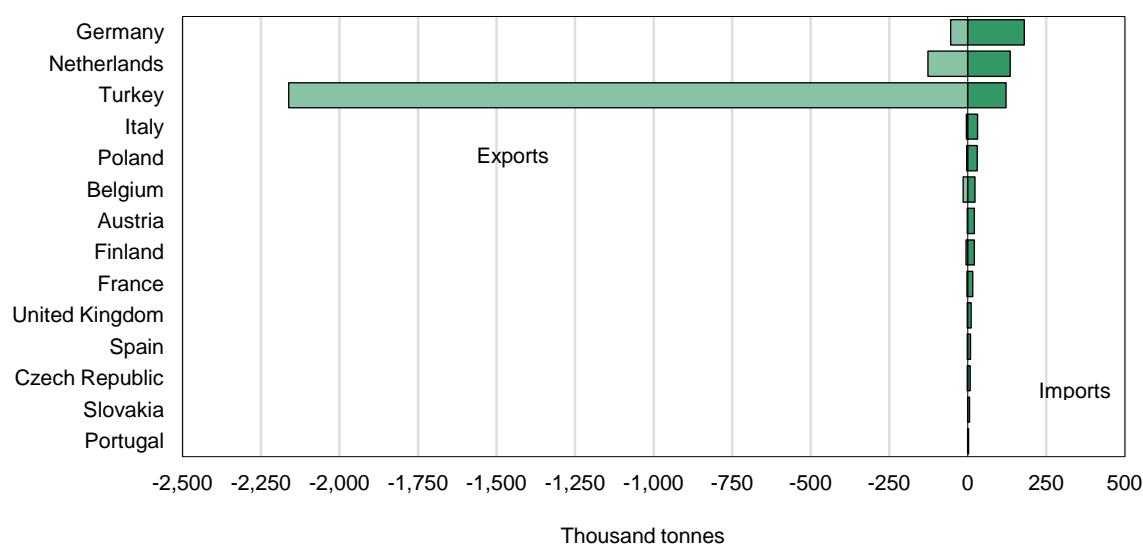
Country	2007	2008	2009	2010	2011
Portugal					
Ores and concentrates	3 339	5 369	2 361	2 108	2 727
Romania					
Ores and concentrates	1 856	77 546	705	7 054	1 637
Metal	78	64	39	16	105
Serbia					
Ores and concentrates	330	519	436	641	725
Slovakia					
Ores and concentrates	16 819	11 969	2 533	4 546	5 542
Slovenia					
Ores and concentrates	986	999	1 005	1 912	966
Metal	85	313	143	104	97
Spain					
Ores and concentrates	6 437	6 721	4 031	5 579	9 262
Metal	1 393	1 219	1 192	1 878	2 350
Sweden					
Ores and concentrates	350 000	337 933	64 955	—	—
Metal	2 145	12 782	4 396	4 999	6 598
Switzerland					
Ores and concentrates	1 339	1 510	974	1 051	809
Metal	114	134	38	74	71
Turkey					
Ores and concentrates	107 524	119 806	113 461	113 487	122 070
Metal	60	60	54	65	108
United Kingdom					
Ores and concentrates	103 551	117 715	33 867	7 084	10 572
Metal	2 134	3 099	2 904	3 007	2 346

Notes

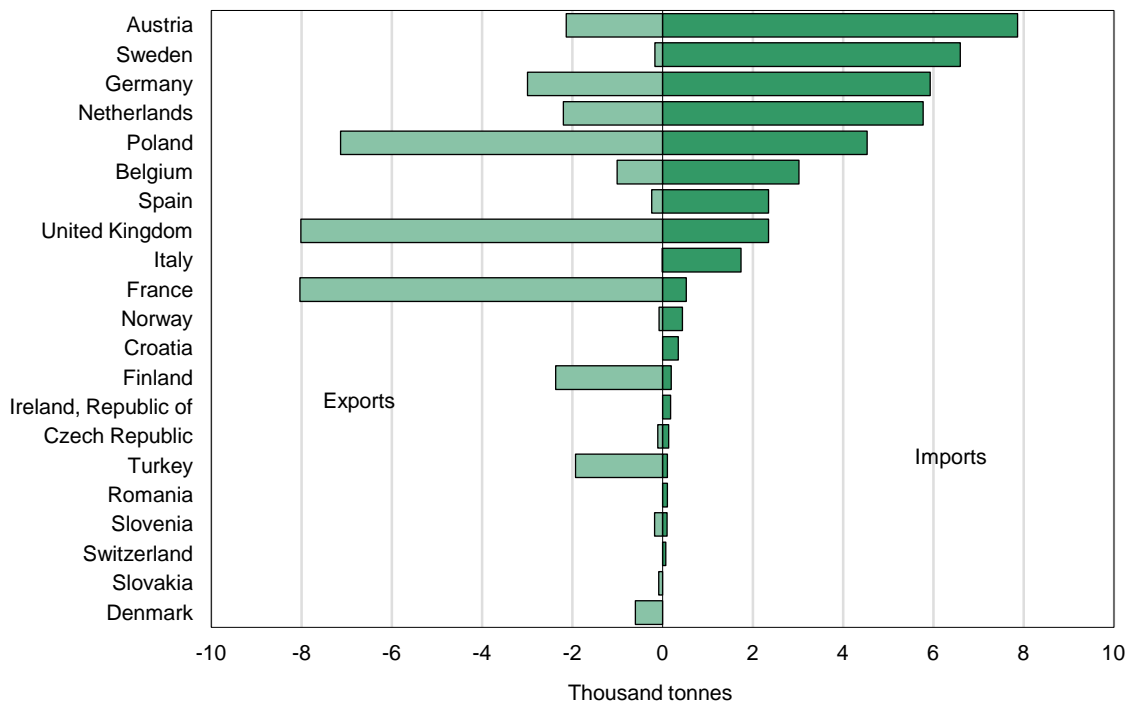
(1) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

Chromium ores and concentrates - EU35 trade in 2011



Chromium metal - EU35 trade in 2011



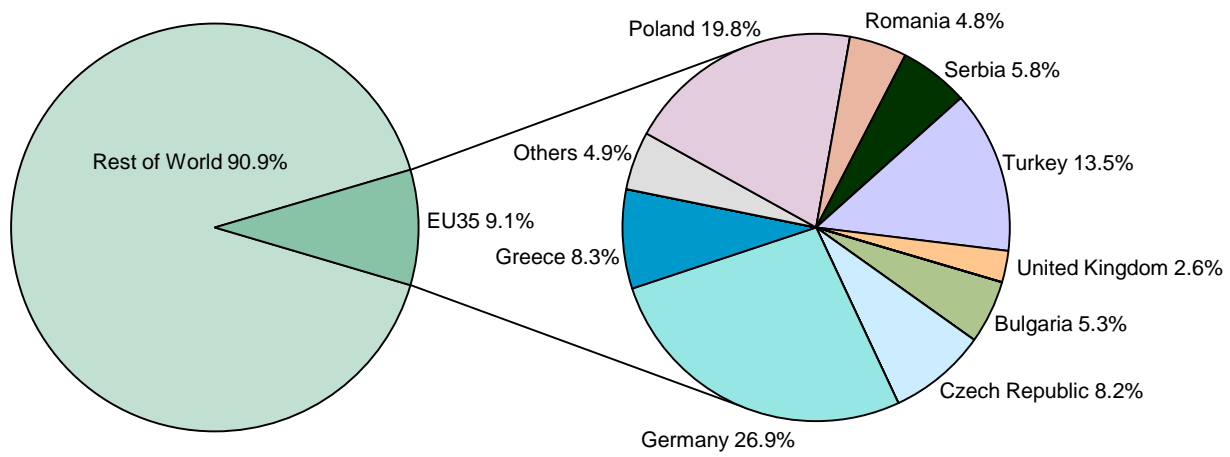
Coal

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.

China was the world's largest producer in 2011, with 45 per cent of the total world output. The second largest was USA (13 per cent), followed by India (eight per cent), Australia and Indonesia (five per cent each).

EU35 Production of coal 2011



Production of coal

Country	2007	2008	2009	2010	2011
tonnes					
Bulgaria					
Lignite	25 325 000	26 007 800	25 014 800	27 148 300	34 496 200
Brown coal	2 833 500	2 643 200	2 243 800	2 321 200	2 743 500
Czech Republic					
Bituminous	12 462 000	12 197 000	10 621 000	11 193 000	10 967 000
Lignite	437 000	416 000	262 000	—	—
Brown coal	49 134 000	47 456 000	45 354 000	43 931 000	46 848 000
Germany					
Anthracite and bituminous	24 185 000	19 143 000	14 971 000	14 110 000	12 960 000
Brown coal	180 409 054	175 313 020	169 857 142	169 402 544	176 502 000
Greece					
Lignite	66 100 000	64 521 000	61 800 000	53 600 000	58 400 000
Hungary					
Lignite	8 351 563	8 041 168	8 026 587	8 203 000	8 800 783
Brown coal	1 450 400	1 386 140	952 000	911 000	757 900
Macedonia					
Lignite	6 569 220	7 669 103	7 395 915	6 583 000	7 902 000
Montenegro					
Lignite	1 195 515	1 740 076	957 164	1 937 847	1 972 671
Norway					
Bituminous (a)	3 223 000	3 429 000	2 437 000	1 685 000	1 640 000
Poland					
Bituminous	88 313 369	84 345 443	78 064 462	76 727 800	76 454 400
Lignite	57 537 727	59 668 166	57 108 304	56 510 100	62 841 300
Romania					
Lignite	35 671 000	34 529 000	28 460 152	28 774 244	33 779 130
Brown coal	97 000	205 000	63 458	62 448	46 071

Production continued

Country	2007	2008	2009	2010	2011
Serbia					
Bituminous	58 000	66 000	69 000	108 000	134 000
Lignite	36 803 000	(b)(c) 31 332 000	(c) 38 070 579	(c) 37 562 840	(c) 40 467 132
Brown coal	204 000	...	209 660	193 492	349 861
Slovakia					
Lignite	20 000	87 000	155 000	176 000	124 000
Brown coal	1 839 000	2 075 000	2 221 000	2 026 000	1 989 000
Slovenia					
Lignite	4 037 766	4 008 440	3 921 746	4 010 930	4 066 278
Brown coal	483 417	488 828	510 769	419 466	435 800
Spain					
Anthracite	3 485 083	3 152 550	4 306 033	3 212 603	2 489 797
Bituminous	4 387 416	4 085 652	2 898 340	2 776 918	1 774 991
Sub-bituminous	3 128 081	2 890 230	2 493 577	2 428 877	2 357 557
Lignite	6 112 946	—	—	—	—
Turkey					
Anthracite	3 230 787	3 343 409	3 773 603	6 312 137	5 619 316
Lignite	74 316 728	86 074 626	82 263 104	86 943 392	89 805 602
United Kingdom					
Bituminous (d)	17 070 000	18 053 000	17 874 000	18 417 000	18 492 000
EU35 Total	718 470 572	704 366 851	672 355 195	667 688 138	705 216 289

Notes

(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

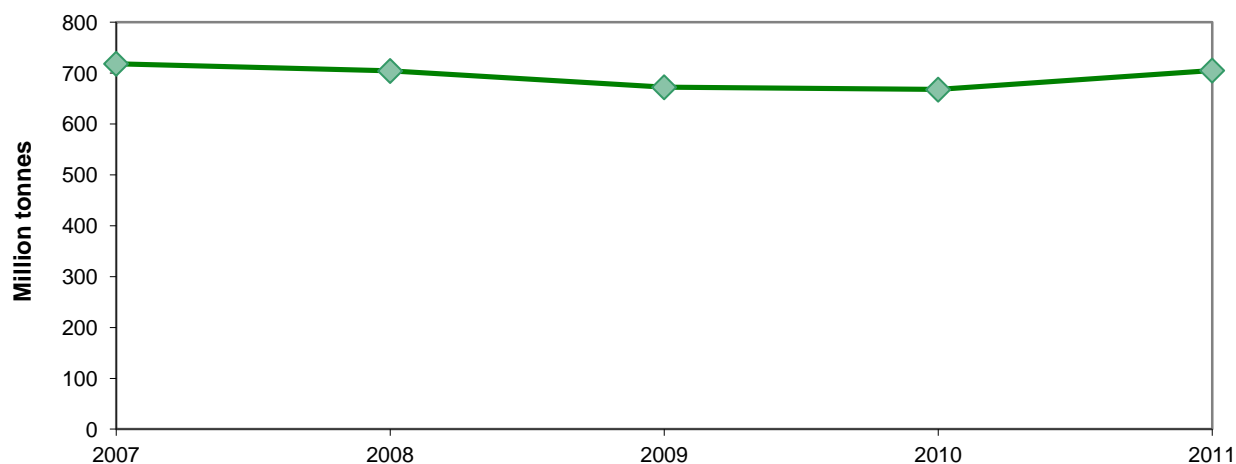
(a) Spitzbergen: not including production from mines controlled by Russia

(b) Including brown coal

(c) Excluding production in Kosovo

(d) Including anthracite

EU35 coal all forms 2007 - 11



Coal

Exports of coal

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Anthracite	1 454 115	1 400 377	675 097	1 652 015	1 915 992
Other coal	3 670 706	4 416 217	4 640 602	4 211 655	2 560 811
Lignite	130	10 581	7 267	18 781	42 164
Briquettes	6 812	11 331	11 452	18 899	40 374
Bulgaria					
Hard coal (a)	17 358	36 095	11 511	76 508	126 229
Lignite	—	53	5 862	9 525	2 744
Czech Republic					
Anthracite	3 684	6 393	2 783	1 126	3 463
Hard coal	6 729 290	5 987 431	6 025 794	6 443 306	6 253 274
Lignite	1 076 140	1 561 097	1 207 715	1 019 645	1 071 038
Briquettes	112 450	75 459	93 479	90 864	103 816
Denmark					
Hard coal	75 866	27 070	(a) 1 973 198	(b)* 10 000	464 851
Estonia					
Hard coal	(a) 2 035	(b)* 13 000	(a) 20 296	(a) 16 452	(a) 2 312
France					
Anthracite	13 161	57 436	5 272	9 551	4 760
Other coal	200 682	128 614	91 266	121 733	113 718
Briquettes	2 013	1 380	6 045	4 495	2 390
Germany					
Anthracite	7 444	16 575	179 880	222 458	165 471
Other coal	309 501	518 629	129 955	31 492	39 712
Lignite	140 400	425 680	523 720	696 279	789 315
Briquettes	72 008	370 211	493 552	463 102	467 383
Greece					
Anthracite	4 802	3 223	3 274	2 073	2 175
Other coal	20 915	5 203	1 525	1 499	6 478
Lignite	—	—	—	—	10 242
Hungary					
Anthracite	...	402	...	9 151	5 077
Lignite	—	89 444	41 329	3 390	4 886
Ireland, Republic of					
Anthracite	30 451	...	2	—	6
Other coal	4 395	6 158	3 861	5 820	2 851
Briquettes	...	6 508	9 858	12 695	11 333
Italy					
Anthracite	29 275	13 456	15 474	12 817	17 611
Other coal	12 576	18 563	14 733	1 485	571
Briquettes	5 874	492	514	3 923	213
Latvia					
Hard coal (a)	—	3 140	170	3 136	26 100
Briquettes	21	79	74	3 262	6 402
Lithuania					
Hard coal (a)	4 599	7 685	10 915	33 109	28 271
Montenegro					
Lignite	57 406	40 449	58 381	69 130	48 940
Netherlands					
Anthracite	158 572	109 516	78 064	41 054	303 741
Other coal	14 089 233	6 399 941	5 154 853	7 580 839	8 239 446
Briquettes	10 188	15	16 347	144 797	294 637
Poland					
Anthracite	30 256	16 173	5 282	41 908	43 370
Other coal	11 761 743	7 775 799	8 368 190	10 323 041	676 364
Lignite	—	1 009	68 273	116 682	145 063
Briquettes	...	71	363	2 114	15 992
Portugal					
Anthracite	10 557	9 382	4 409	7 136	7 405
Romania					
Hard coal	(a) 67 304	(a) 5 331	(a) 19 771	(a) 73 002	35 712
Serbia					
Anthracite	9 867	3 102	3 784	4 434	2 507
Other coal	15 707	4 068	14 530	3 801	1 116
Lignite	339 764	217 029	120 553	112 009	32 337
Briquettes	23	5 333	630	8 724	573

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Slovakia					
Anthracite	11 889	5 515	2 927	725	6 198
Other coal	14 711	366 200	105 417	5 128	2 552
Lignite	28 096	59 568	7 477	55	908
Slovenia					
Lignite	2 150	377	4 615	...	—
Spain					
Anthracite	101 968	186 293	123 114	337 930	337 833
Other coal	872 269	1 636 071	1 252 923	1 149 991	851 716
Briquettes	...	21 735	193	599	250
Turkey					
Anthracite	1 694	1 043	194	717	5 210
Other coal	2 224	55 510	1 715	37 319	802
Lignite	11 819	13 980	6 253	4 554	43 942
United Kingdom					
Anthracite	123 549	165 473	119 472	89 701	97 014
Other coal	419 193	742 582	391 414	615 067	502 581
Lignite	1 965	2 334	2 186	2 408	1 334
Briquettes	27 591	52 605	68 226	89 125	117 025

Notes

(1) This table excludes bunker shipments

(a) Including anthracite

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

Imports of coal

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Hard coal (a)	4 509 917	4 118 906	4 082 877	3 618 128	3 365 054
Lignite	53 331	46 392	72 734	68 777	74 609
Briquettes	13 045	26 474	30 538	34 999	35 695
Belgium					
Anthracite	2 822 426	3 964 878	1 436 499	2 660 267	3 382 132
Other coal	9 620 488	10 171 283	5 807 413	6 851 382	5 887 514
Lignite	272 708	365 152	256 167	362 257	411 424
Briquettes	25 140	20 943	31 346	27 379	53 793
Bulgaria					
Anthracite	2 229 619	2 841 458	1 938 000	1 858 397	2 203 775
Other coal	2 415 165	2 054 649	1 130 146	1 081 783	1 032 074
Briquettes	112 775	66 676	10 238	46 754	19
Croatia					
Hard coal (a)	1 101 803	1 189 379	712 873	1 112 822	1 092 794
Lignite	62 789	58 417	47 504	85 413	85 316
Briquettes	2 604	2 796	1 730	1 823	2 302
Cyprus					
Hard coal (a)	56 896	46 258	28 911	7 714	129
Czech Republic					
Anthracite	45 114	39 211	24 054	24 471	95 762
Other coal	2 507 091	2 181 691	1 761 947	2 016 443	2 286 190
Lignite	33 472	33 579	36 617	49 426	76 620
Briquettes	1 393	18 654	60 962	137 933	157 513
Denmark					
Anthracite	47 233	45 282	12 593	48	6
Other coal	8 034 596	7 412 557	6 423 923	3 670 544	(c)* 6 975 000
Briquettes	194	1 000	455	7 554	14 768
Estonia					
Hard coal (a)	175 599	123 194	30 413	77 300	89 422
Finland					
Hard coal (a)	6 669 717	5 671 385	5 937 153	5 919 757	6 972 540
France					
Anthracite	3 532 378	2 817 048	1 914 614	2 291 609	1 304 643
Other coal	15 425 960	18 470 782	13 893 343	16 688 152	14 073 053
Lignite	51 589	68 426	51 577	52 076	82 504
Briquettes	175 350	154 140	151 863	129 465	102 257

Coal

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Germany					
Anthracite	4 353 426	4 137 690	3 893 429	3 643 048	2 535 881
Other coal	37 993 445	37 215 220	30 926 568	34 850 251	40 187 648
Lignite	15 411	39 248	37 839	24 400	41 768
Briquettes	96 169	70 400	132 895	404 681	291 675
Greece					
Anthracite	59 007	41 475	37 585	48 783	117 406
Other coal	382 933	371 479	168 663	512 663	169 990
Lignite	3 029	35 457	58 053	87 707	165 417
Briquettes	1 144	111	5 827	62	12 986
Hungary					
Hard coal	1 950 139	1 893 076	(a) 1 340 769	(a) 1 744 778	(a) 1 570 645
Lignite	572 742	767 480	413 094	297 335	318 792
Briquettes	13 589	16 093	17 519	14 352	11 018
Iceland					
Anthracite	107 686	91 576	104 094	101 220	103 822
Other coal	31 882	6 609	9 903	3 521	6 701
Ireland, Republic of					
Anthracite	33 175	47 392	53 413	77 112	33 665
Other coal	1 830 979	2 169 185	1 721 651	1 601 294	2 149 095
Briquettes	14 271	19 049	40 482	31 507	30 673
Italy					
Anthracite	406 331	490 757	210 384	408 391	394 026
Other coal	25 111 043	25 745 375	20 165 036	21 820 370	23 656 907
Briquettes	6 921	5 392	7 786	6 233	3 857
Latvia					
Hard coal (a)	153 806	169 211	136 277	181 348	198 165
Lithuania					
Hard coal (a)	356 342	382 695	215 439	316 971	392 359
Luxembourg					
Anthracite	42 128	34 471	16 525	24 834	16 256
Other coal	59 201	81 616	83 454	76 133	73 322
Lignite	5 992	7 119	7 093	7 090	7 710
Macedonia					
Hard coal (a)	199 946	214 078	85 660	160 162	189 549
Lignite	1 532	...	340	23 409	42 052
Briquettes	63 805	56 640	9 207	7 623	22 546
Montenegro					
Lignite	7 285	12 792	6 734	—	62
Briquettes	12 181	15 410	3 448	(c) 0	3
Netherlands					
Anthracite	62 577	79 784	8 005	44 958	225 184
Other coal	24 622 621	17 843 689	14 084 993	18 783 491	18 008 920
Lignite	29 517	5 265	29 239	21 933	15 824
Briquettes	68 765	53 432	53 030	132 281	429 514
Norway					
Anthracite (b)	76 744	81 955	54 199	78 387	79 140
Other coal (b)(c)	* 527 000	* 538 000	* 367 000	* 205 000	* 230 000
Briquettes	706	24 406	1 074	1 160	733
Poland					
Anthracite	449 362	553 152	310 290	583 158	582 605
Other coal	5 442 327	9 531 959	10 362 090	13 127 065	14 090 331
Lignite	8 946	18 057	30 307	35 973	67 550
Briquettes	3 986	10 960	25 788	60 548	60 758
Portugal					
Anthracite	44 447	48 793	28 472	21 454	30 860
Other coal	4 733 158	3 721 513	4 922 698	2 648 704	3 592 502
Romania					
Anthracite	68 924	110 484	56 296	72 776	148 260
Other coal	4 421 709	3 008 391	937 077	936 727	840 669
Lignite	575 514	121 227	62 469	718	1 706
Briquettes	237 051	148 890	102 372	96 428	197
Serbia					
Anthracite	5 220	10 500	10 752	18 056	16 456
Other coal	308 197	326 808	89 731	156 846	183 713
Lignite	215 602	249 563	276 033	307 250	615 026
Briquettes	3 923	6 071	2 181	11 130	8 975

Imports continued

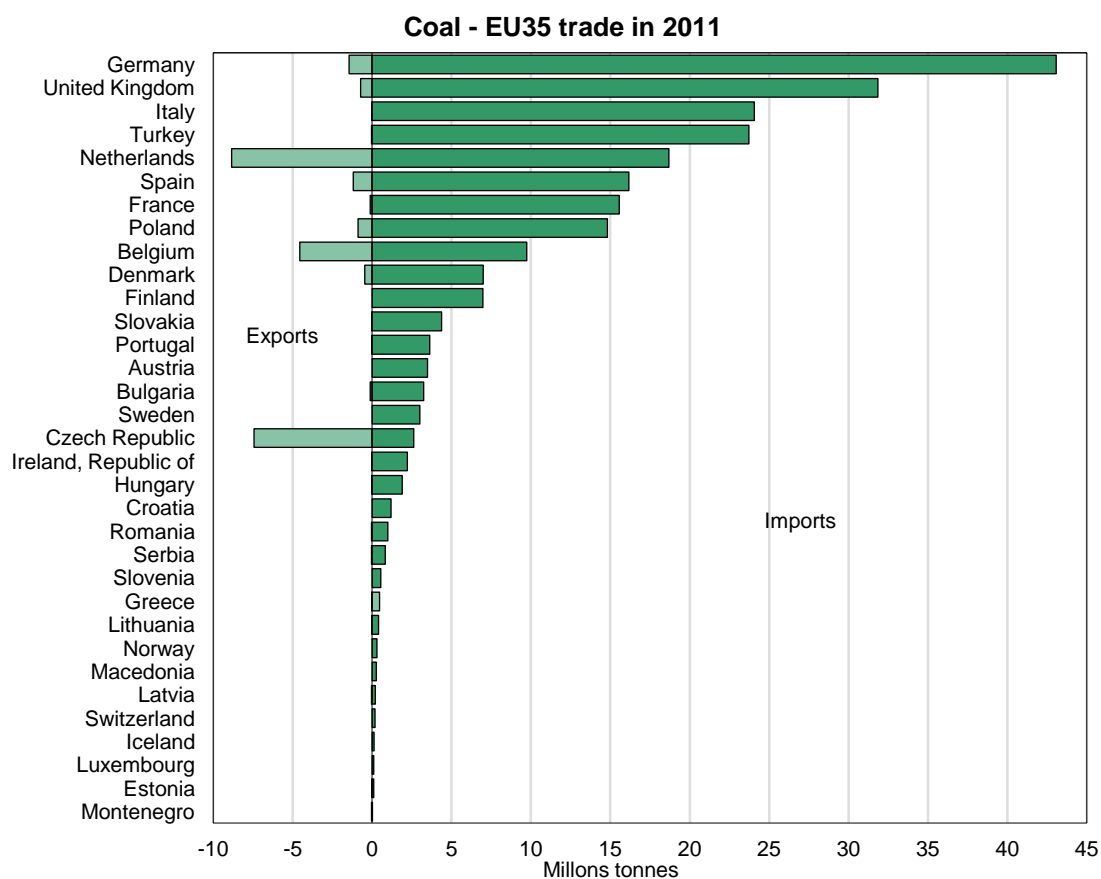
Country	2007	2008	2009	2010	2011
Slovakia					
Anthracite	176 682	258 597	264 286	293 054	713 105
Other coal	4 802 258	4 253 530	3 828 520	3 078 570	3 110 255
Lignite	725 586	983 151	693 786	563 021	534 118
Briquettes	5 813	6 733	7 877	12 799	14 836
Slovenia					
Hard coal (a)	83 100	74 508	33 143	26 873	30 629
Lignite	567 139	833 308	507 013	544 523	515 659
Spain					
Anthracite	1 019 341	957 293	767 027	846 015	852 813
Other coal	23 420 766	20 010 533	15 967 793	10 983 379	15 315 861
Sweden					
Anthracite	25 832	36 163	20 373	48 767	38 136
Other coal	3 154 331	2 811 668	1 831 397	3 236 437	2 971 646
Briquettes	287	9 029	33	43	52
Switzerland					
Anthracite	9 539	18 721	5 444	7 164	7 144
Other coal	214 684	132 824	172 990	124 096	92 473
Lignite	84 654	80 814	66 483	62 756	69 378
Briquettes	3 908	3 986	4 933	3 328	2 887
Turkey					
Anthracite	530 393	707 425	457 575	972 425	990 996
Other coal	13 850 371	18 781 879	19 501 679	21 048 121	22 721 500
Lignite	...	...	...	5 339	...
United Kingdom					
Anthracite	135 941	213 318	207 327	187 246	193 474
Other coal	43 024 560	43 038 043	36 553 574	23 227 529	31 627 894
Lignite	10	20	0	96	776
Briquettes	6 501	14 131	9 021	11 169	21 142

Notes

(a) Including anthracite

(b) Excludes coal imported from Spitzbergen

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



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 world's largest producer of mined cobalt in 2011, with 72 per cent of the total world output. The second largest was Canada (five per cent), followed by China (also five per cent), Zambia (four per cent) and Australia (three per cent).

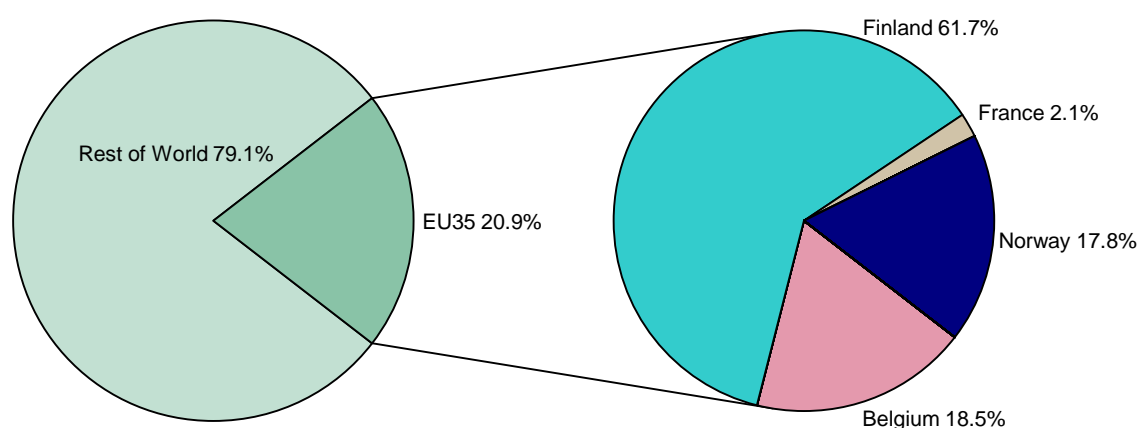
China was the world's largest producer of cobalt metal in 2011, with 42 per cent of the total world output. The second largest was Finland (13 per cent), followed by Canada and Zambia (seven per cent each) and Australia (six per cent).

Mine production of cobalt

tonnes (metal content)

Country	2007	2008	2009	2010	2011
Finland	* 120	* 100	* 27	* 140	480

EU35 Production of cobalt metal 2011



Cobalt

Production of cobalt metal

tonnes

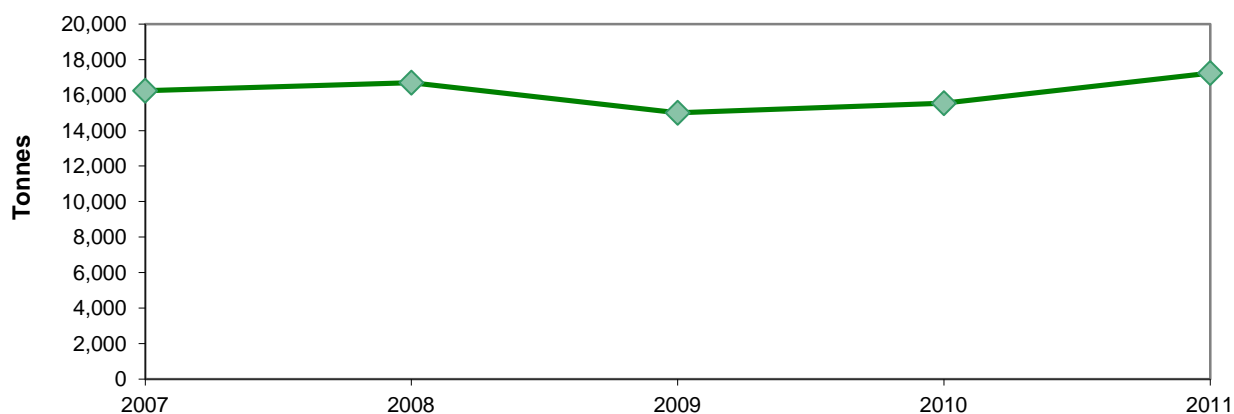
Country	2007	2008	2009	2010	2011
Belgium (a)	2 825	3 020	2 150	2 600	3 187
Finland	9 173	9 645	8 970	9 429	10 627
France	305	311	368	302	354
Norway	3 939	3 719	3 510	3 208	3 067
EU35 Total	16 242	16 695	14 998	15 539	17 235

Notes

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

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

EU35 Production of cobalt metal 2007 - 2011



Exports of cobalt

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metal	19	31	60	72	60
Belgium					
Ore	1 204	1 112	1 227	633	2 431
Metal (a)	* 21 600	* 7 000	* 4 700	* 4 400	* 2 400
Finland					
Oxides (a)	* 2 400	* 2 600	* 3 100	* 5 400	* 6 400
Metal (a)	* 5 700	* 5 700	* 4 500	* 3 900	* 4 200
France					
Oxides	91	28	50	3	3
Metal	1 006	859	706	785	1 086
Germany					
Ore	457	145	103	88	—
Oxides	158	158	69	102	113
Metal	2 067	1 588	1 067	1 481	1 393
Ireland, Republic of					
Ore	113	144	84	184	68
Oxides	152	0	—	—	—
Metal	45	47	145	234	125
Italy					
Oxides	223	235	141	206	224
Metal	168	220	205	187	230
Luxembourg					
Metal	3	7	3	1	305
Netherlands					
Oxides	127	959	65	144	67
Metal	1 579	1 090	353	1 733	2 062
Norway					
Metal	4 030	3 731	3 550	3 325	3 064
Poland					
Oxides	5	24	64	8	3
Slovenia					
Metal	31	24	50	65	33
Spain					
Oxides	56	7	33	19	14
Sweden					
Metal	152	67	285	220	99
Switzerland					
Metal	94	120	70	80	97
United Kingdom					
Ore	0	12	0	2	5
Oxides	689	798	891	1 267	820
Metal	2 300	2 614	2 572	1 780	1 739

Note

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

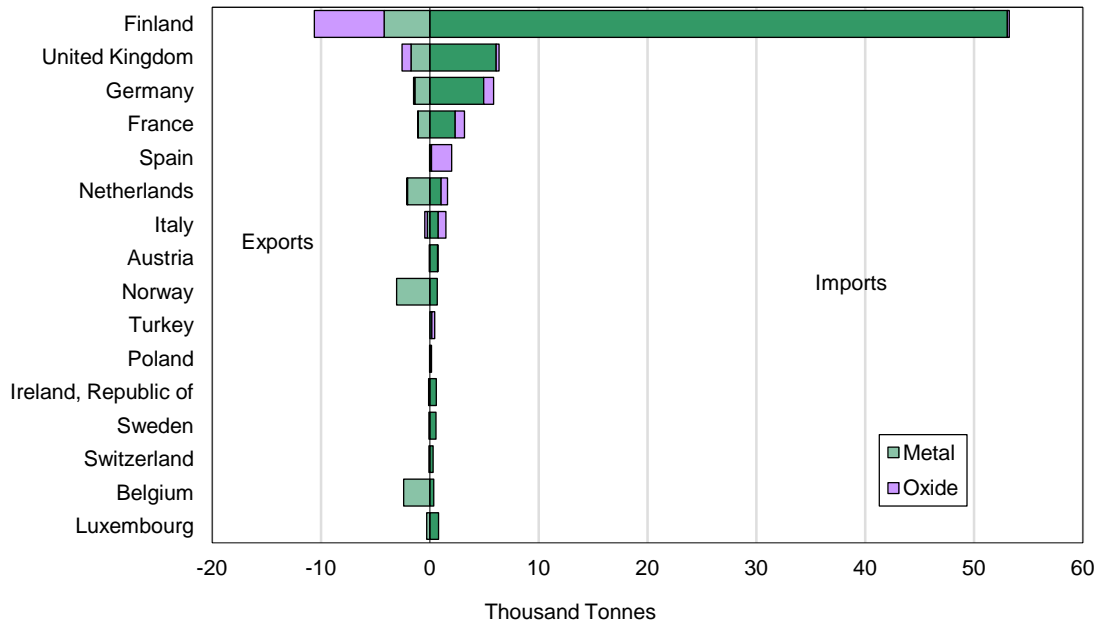
Cobalt

Imports of cobalt

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metal	631	740	331	653	718
Oxides	4	40	5	10	9
Belgium					
Ore	121	185	272	156	379
Metal	275	255	249	222	368
Czech Republic					
Metal	108	199	220	60	60
Denmark					
Oxides	5	8	15	19	42
Finland					
Ore	26 449	26 500	15 146	9 867	8 994
Metal	27 590	36 405	24 002	30 623	53 059
Oxides	346	167	46	233	172
France					
Metal	3 137	2 251	1 203	1 681	2 338
Oxides	658	574	578	635	841
Germany					
Ore	12	15	42	115	170
Metal	3 150	2 921	2 017	3 864	4 946
Oxides	898	1 057	902	1 069	900
Greece					
Metal	42	123	14	3	17
Ireland, Republic of					
Ore	571	36	28	10	5
Metal	298	622	777	756	601
Italy					
Metal	626	703	632	477	758
Oxides	1 682	561	473	707	719
Luxembourg					
Metal	212	243	11	163	811
Netherlands					
Metal	1 270	1 124	* 491	962	1 023
Oxides	489	244	54	118	596
Norway					
Metal	3 871	3 131	3 012	2 132	684
Oxides	...	...	155	—	0
Poland					
Metal	69	51	53	52	47
Oxides	18	30	15	18	114
Romania					
Oxides	29	6	37	41	79
Slovakia					
Metal	37	1 020	19	7	7
Oxides	0	0	5 327	137	97
Slovenia					
Metal	96	93	149	141	110
Spain					
Metal	121	131	135	144	159
Oxides	1 187	1 038	1 035	1 543	1 837
Sweden					
Metal	676	698	189	396	571
Switzerland					
Metal	454	386	243	318	298
Turkey					
Metal	176	148	125	145	171
Oxides	142	152	150	199	277
United Kingdom					
Ore	0	72	200	143	124
Metal	5 422	5 395	3 928	5 963	6 093
Oxides	180	138	168	198	256

Cobalt - EU35 trade in 2011



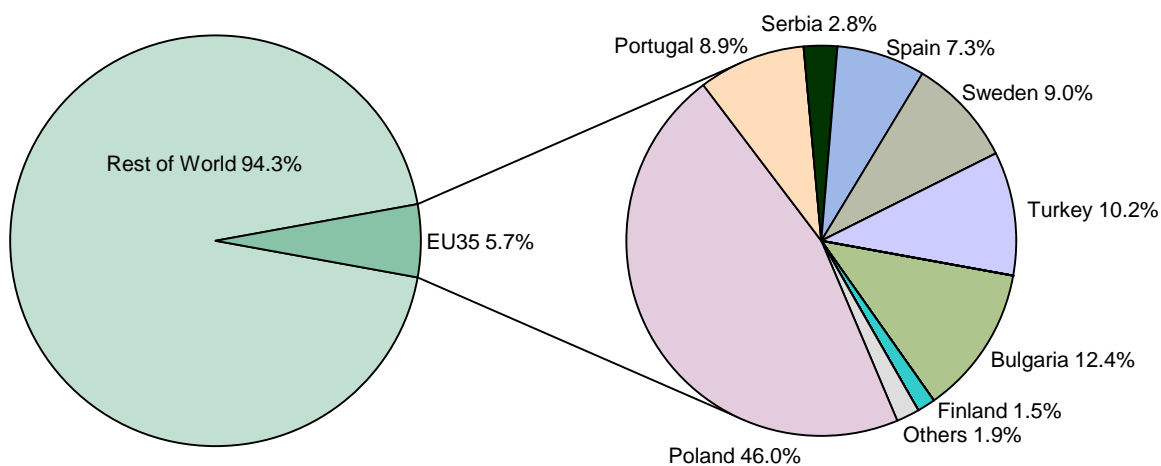
Copper

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.

Chile was the world's largest producer of mined copper in 2011, with 32 per cent of the total world output. The second largest was China (eight per cent), followed by Peru (also eight per cent), USA (seven per cent) and Australia (six per cent).

China was the world's largest producer of refined copper in 2011, with 27 per cent of the total world output. The second largest was Chile (16 per cent), followed by Japan (seven per cent), USA and Russia (five per cent each).

EU35 Mine production of copper 2011

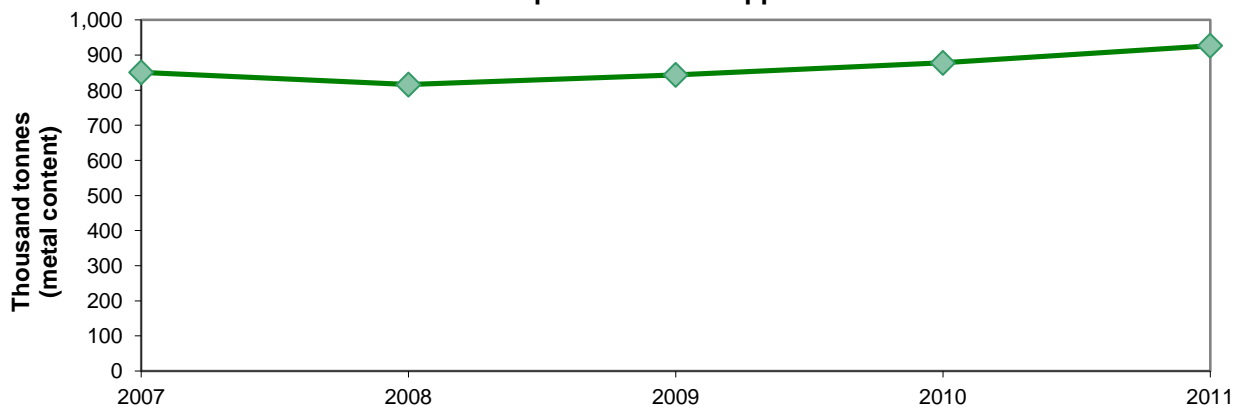


Mine production of copper

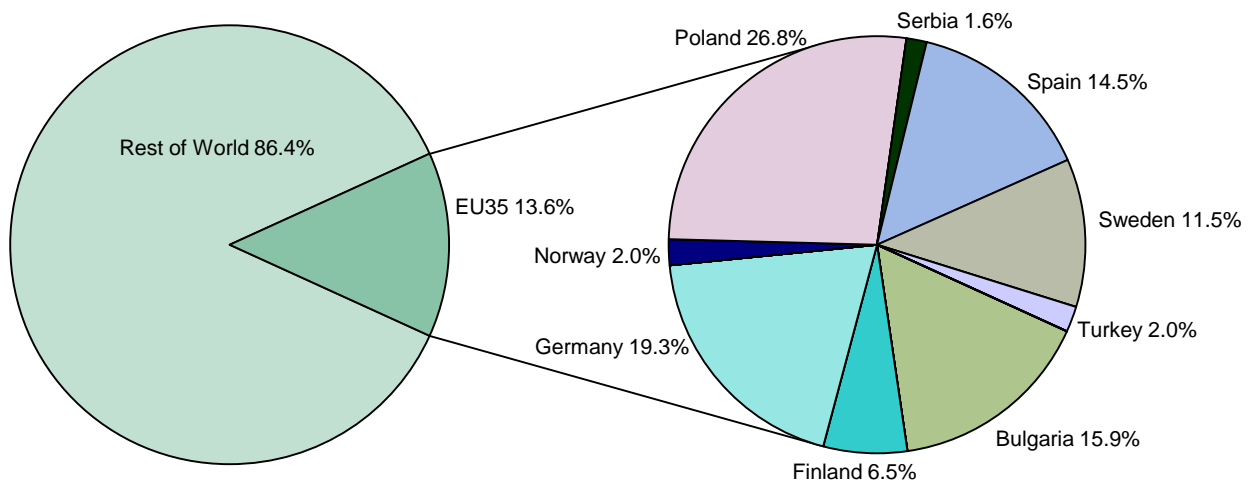
tonnes (metal content)

Country	2007	2008	2009	2010	2011
Bulgaria	116 157	107 195	110 652	112 904	114 603
Cyprus	3 012	2 986	2 380	2 595	3 660
Finland	13 600	13 300	14 600	14 700	14 000
Macedonia	7 029	8 051	7 440	7 900	7 600
Poland	451 900	429 687	439 365	425 700	426 700
Portugal	90 182	89 026	86 462	74 011	82 200
Romania	2 213	308	3 129	5 127	6 355
Serbia	16 500	17 600	19 400	22 500	25 800
Spain	6 281	7 071	17 663	54 335	67 983
Sweden	62 905	57 688	55 414	76 514	82 967
Turkey	81 000	83 000	87 070	81 500	95 000
EU35 Total	850 779	815 912	843 575	877 786	926 868

EU35 Mine production of copper 2007 - 11



EU35 Smelter production of copper 2011



Smelter production of copper

tonnes

Country	2007	2008	2009	2010	2011
Bulgaria	217 600	257 100	256 200	265 000	285 000
Finland	118 911	142 154	110 479	112 687	116 455
Germany	270 200	295 000	251 000	378 700	346 200
Norway	34 200	37 000	33 900	36 200	36 000
Poland	518 303	492 942	457 510	469 656	481 875
Serbia	30 200	31 900	27 000	20 000	28 200
Spain	257 348	259 897	264 971	259 119	260 730
Sweden	203 100	203 700	183 400	181 500	206 100
Turkey	17 900	38 000	—	—	35 600
EU35 Total	1 667 762	1 757 693	1 584 460	1 722 862	1 796 160

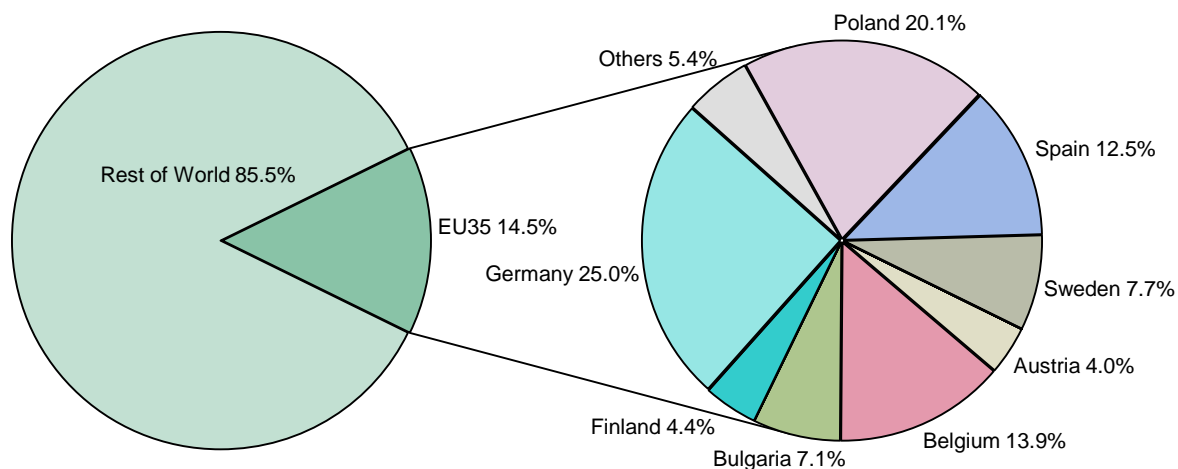
Note

(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

EU35 Smelter production of copper 2007 - 11



EU35 Production of refined copper 2011



Production of refined copper

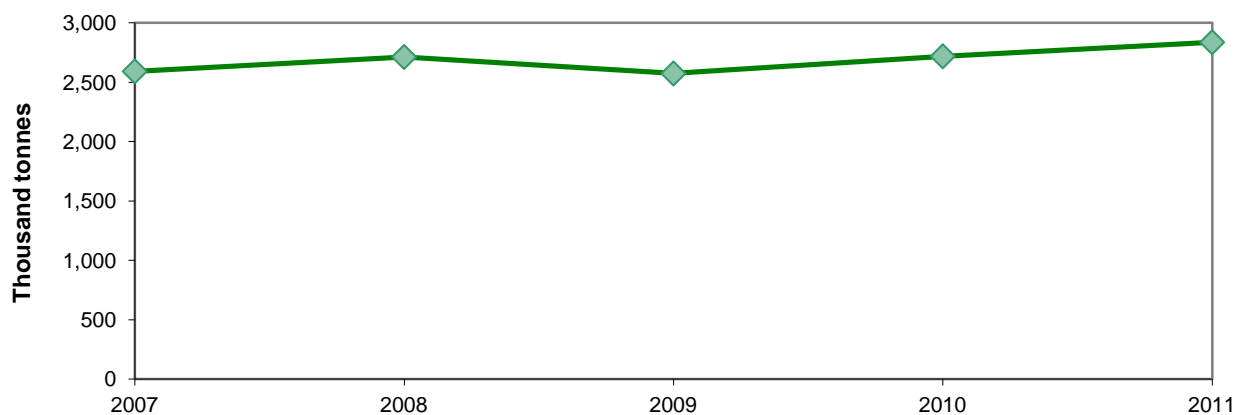
tonnes

Country	2007	2008	2009	2010	2011
Austria	81 400	106 700	96 200	113 700	112 500
Belgium	394 000	395 800	373 700	389 000	393 600
Bulgaria	69 900	114 200	183 600	195 400	201 100
Cyprus	3 012	2 986	2 380	2 595	3 660
Finland	109 870	131 249	105 411	120 528	124 360
Germany	665 517	689 763	668 945	704 300	708 800
Italy	28 600	24 200	6 500	1 800	2 000
Norway	34 200	37 000	33 900	36 200	36 000
Poland	532 975	526 808	502 462	547 074	571 000
Romania	18 589	15 300	4 600	—	—
Serbia	31 600	33 800	27 400	22 200	25 300
Spain	308 372	319 050	329 356	347 518	353 790
Sweden	213 894	227 774	205 759	190 497	219 316
Turkey	99 600	88 000	33 500	47 300	85 000
EU35 Total	2 591 529	2 712 630	2 573 713	2 718 112	2 836 426

Note

(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

EU35 Production of refined copper 2007 - 11



Exports of copper

Country	2007	2008	2009	2010	2011
Austria					
Matte and cement	2 323	719	3 109	960	0
Scrap	38 642	35 582	50 748	52 702	55 454
Unwrought, unrefined	34	75	217	7 636	7 780
Unwrought, refined	82 951	114 903	115 480	135 132	128 551
Unwrought alloys	1 239	938	1 058	804	690
Belgium					
Ores and concentrates	1 061	2 155	4 594	4 549	2 046
Matte and cement	1 104	4 139	2 432	6 935	9 042
Scrap	188 318	162 090	110 355	141 380	165 713
Unwrought, unrefined	10 730	10 533	11 570	42 836	40 660
Unwrought, refined	199 650	257 907	248 500	189 253	187 595
Unwrought alloys	14 593	10 954	9 253	12 116	11 763
Bulgaria					
Ores and concentrates	168 155	105 889	134 910	86 171	131 874
Matte and cement	6 335	3 559	4 749	5 048	5 827
Scrap	11 590	10 547	10 717	18 226	12 982
Unwrought, unrefined	139 251	146 271	73 379	7 926	10 844
Unwrought, refined	45 761	105 747	153 025	206 309	353 450
Croatia					
Scrap	12 378	10 884	10 202	13 329	12 597
Cyprus					
Unwrought	3 006	2 986	2 449	2 550	3 660
Scrap	2 122	2 381	3 400	4 619	4 086
Czech Republic					
Unwrought	6 752	3 597	10 653	11 041	10 703
Scrap	58 534	63 825	105 230	123 688	85 202
Unwrought alloys	3 548	4 278	3 992	3 515	2 884
Denmark					
Scrap	31 569	33 421	31 711	30 006	33 289
Estonia					
Scrap	7 784	8 185	5 633	6 915	5 171
Finland					
Scrap	32 872	32 585	32 762	32 819	33 714
Unwrought, unrefined	10 490	27 525	37 084	35 132	24 908
Unwrought, refined	33 543	68 331	41 139	57 969	41 603
France					
Matte and cement	331	252	720	102	247
Scrap	284 890	266 930	235 277	292 631	305 883
Unwrought, unrefined	399	512	1 002	7 356	9 545
Unwrought, refined	67 366	54 893	59 426	23 258	35 309
Unwrought alloys	13 140	13 049	9 455	12 786	10 624
Germany					
Ores and concentrates	61 535	48 234	58 932	48 761	54 856
Matte and cement	24	2	1	8 431	9
Unwrought	117 701	125 162	194 104	136 110	196 627
Scrap	480 700	478 643	449 990	578 448	585 346
Unwrought alloys	22 436	16 485	9 781	13 276	12 276
Greece					
Scrap	14 669	12 314	15 742	21 994	18 672
Unwrought, refined	1 944	356	2 748	825	4 456
Unwrought alloys	995	1 198	1 071	2 097	4 346
Hungary					
Scrap	23 394	20 958	19 120	15 319	31 459
Unwrought alloys	...	989	314	571	1 120
Ireland, Republic of					
Scrap	9 836	21 421	23 305	13 172	10 168
Italy					
Matte and cement	2 244	911	90	61	1
Scrap	120 231	148 923	158 062	167 424	174 068
Unwrought, unrefined	10 903	6 426	2 752	7 290	8 502
Unwrought, refined	11 521	6 955	13 186	8 648	13 506
Unwrought alloys	20 830	15 268	12 787	15 553	20 024
Latvia					
Unwrought	3 272	4 117	2 518	726	1 650
Scrap	7 309	6 900	6 138	7 106	13 679

Copper

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Lithuania					
Unwrought	196	135	610	591	4 873
Scrap	4 814	4 675	3 375	4 128	5 724
Luxembourg					
Scrap	6 348	2 412	1 787	2 492	2 449
Unwrought alloys	...	...	11	7	1
Macedonia					
Ores and concentrates (a)	* 35 000	* 41 000	* 39 000	* 41 000	* 39 000
Scrap	2 277	2 302	2 029	576	2 845
Malta					
Scrap	1 790	1 890	1 828	919	1 096
Montenegro					
Scrap	1 480	1 356	1 029	1 769	2 356
Netherlands					
Unwrought	43 620	27 105	29 260	20 175	34 435
Scrap	229 090	241 332	143 329	283 847	315 437
Unwrought alloys	5 680	6 693	2 413	2 379	3 057
Norway					
Unwrought	34 007	36 734	32 927	35 975	35 953
Scrap	24 066	22 561	25 339	37 829	45 889
Unwrought alloys	1 161	756	570	546	596
Poland					
Matte and cement	2 187	2 989	1 515	956	1 567
Unwrought	239 508	296 738	325 395	332 989	327 585
Scrap	64 377	63 779	64 606	68 686	60 544
Unwrought alloys	6 397	5 469	2 358	1 180	1 260
Portugal					
Ores and concentrates	399 589	375 755	371 881	305 485	327 096
Unwrought	227	600	2 098	1 887	9 969
Scrap	24 566	22 184	20 213	24 491	36 151
Romania					
Ores and concentrates	23 689	33 391	6 711	31 582	39 704
Matte and cement	11 569	8 494	4 502	956	186
Scrap	35 856	39 733	42 148	49 248	54 536
Serbia					
Ores and concentrates	2 250	3 448	1 452	1 666	2 234
Matte and cement	333	41	1 928	2 501	1 649
Unwrought	12 525	4 421	4 328	10 921	9 544
Scrap	7 176	7 637	7 920	12 286	9 991
Slovakia					
Scrap	23 502	21 144	15 114	15 550	19 522
Unwrought, unrefined	24 446	28 392	26 251	7 431	11 508
Unwrought, refined	9 786	6 749	3 721	27 576	32 017
Slovenia					
Unwrought	163	244	1 376	7 042	5 847
Scrap	17 810	15 606	17 991	29 276	22 126
Spain					
Ores and concentrates	905	463	110 724	221 429	583 874
Scrap	88 429	83 820	100 498	102 236	87 122
Unwrought, unrefined	37 210	41 676	38 761	33 973	37 314
Unwrought, refined	48 288	85 899	108 716	151 204	86 800
Unwrought alloys	12 679	12 139	12 150	15 881	15 809
Sweden					
Ores and concentrates	...	49	—	24	8 010
Unwrought	66 232	70 047	77 745	71 394	92 971
Scrap	54 673	57 245	55 603	43 311	58 031
Unwrought, refined	...	70 047	...	...	...
Unwrought alloys	8 837	5 610	3 181	8 563	5 615
Switzerland					
Unwrought	1 002	1 159	623	832	1 030
Scrap	75 542	82 687	71 204	75 973	84 373
Turkey					
Ores and concentrates	36 046	251 958	356 922	421 536	257 914
Unwrought	6 219	34 910	4 505	2 106	2 845
Scrap	8 920	9 670	16 426	12 426	5 124
Unwrought alloys	5 594	6 869	2 237	6 764	10 135

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
United Kingdom					
Ores and concentrates	2	118	68	39	51
Matte and cement	16	28	14	33	36
Scrap	346 361	358 981	429 467	421 868	513 394
Unwrought, unrefined	786	3 066	205	185	194
Unwrought, refined	8 489	4 850	14 059	8 863	17 951
Unwrought alloys	18 142	17 822	11 839	12 782	16 872

Notes

- (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	2007	2008	2009	2010	2011
Austria					
Scrap	91 043	113 109	134 063	145 903	130 675
Unwrought, unrefined	26 678	39 590	24 445	36 218	44 412
Unwrought, refined	20 614	8 855	4 868	10 361	16 680
Unwrought alloys	2 485	1 866	1 617	1 412	1 376
Belgium					
Ores and concentrates	21 137	12 039	17 378	10 554	13 735
Matte and cement	6 310	4 482	36 352	29 857	41 741
Scrap	312 885	249 718	215 202	272 816	255 661
Unwrought, unrefined	224 439	206 660	212 932	191 159	206 987
Unwrought, refined	28 695	54 380	79 524	61 447	34 734
Unwrought alloys	2 692	1 749	2 669	4 917	5 134
Bulgaria					
Ores and concentrates	539 325	609 258	635 039	575 192	836 387
Matte and cement	10 025	34 997	15 160	13 642	2 006
Unwrought	28 226	30 422	8 016	8 272	12 441
Scrap	12 899	23 856	20 730	35 464	52 461
Croatia					
Unwrought	729	880	760	944	1 627
Czech Republic					
Unwrought	15 156	11 474	21 475	6 846	6 252
Scrap	8 966	8 677	9 639	11 804	18 859
Unwrought alloys	3 755	3 862	3 050	3 674	3 388
Denmark					
Unwrought	2 901	2 818	1 413	1 978	2 255
Scrap	9 187	11 235	10 388	9 125	9 075
Finland					
Ores and concentrates	448 119	536 584	352 370	458 174	415 365
Unwrought	2 777	2 490	16 298	4 212	4 711
Scrap	2 644	4 146	7 349	6 967	7 726
Unwrought alloys	4 178	3 542	2 415	2 783	2 528
France					
Unwrought	432 225	435 455	265 766	227 271	226 312
Scrap	90 195	81 036	50 753	72 220	81 824
Unwrought alloys	14 389	8 987	7 980	9 242	9 148
Germany					
Ores and concentrates	1 300 491	1 088 291	1 252 430	1 128 472	1 124 525
Matte and cement	14 880	10 102	4 133	12 739	2 742
Scrap	595 751	563 560	454 753	626 442	647 084
Unwrought, unrefined	31 830	24 706	46 840	23 331	68 147
Unwrought, refined	844 747	833 354	658 703	743 934	737 763
Unwrought alloys	48 261	40 073	38 538	36 249	35 493
Greece					
Unwrought	105 722	79 928	57 367	63 443	53 615
Scrap	10 148	18 628	11 245	20 017	29 253
Unwrought alloys	6 855	9 393	305	241	643

Copper

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Hungary					
Unwrought	2 492	3 016	2 168	3 637	4 819
Scrap	1 405	5 933	10 091	4 038	5 416
Ireland, Republic of					
Ores and concentrates	21	30 176	42 945	2	2
Italy					
Scrap	177 546	167 212	91 519	129 074	148 358
Unwrought, refined	746 482	617 420	544 197	627 826	614 659
Unwrought alloys	24 996	18 531	8 166	14 679	15 910
Latvia					
Unwrought	1 396	3 609	3 049	712	2 153
Lithuania					
Unwrought	388	1 454	415	596	4 652
Luxembourg					
Scrap	15 791	8 833	7 533	10 708	10 061
Netherlands					
Scrap	117 259	116 503	—	144 426	204 327
Unwrought, unrefined	18 130	26	2 678	7 194	5 502
Unwrought, refined	151 515	35 077	33 771	26 982	41 659
Unwrought alloys	3 379	2 440	1 329	2 101	2 111
Norway					
Unwrought	3 650	3 133	1 627	4 609	909
Scrap	13 486	11 189	9 727	9 891	12 856
Poland					
Ores and concentrates	61 319	62 443	78 027	38 000	45 484
Matte and cement	10 062	—	—	612	—
Scrap	18 596	19 269	22 153	24 316	26 201
Unwrought, unrefined	23 880	33 376	40 030	33 717	23 581
Unwrought, refined	7 024	6 629	13 838	26 944	11 822
Unwrought alloys	4 516	3 012	2 408	2 813	2 939
Portugal					
Unwrought	5 309	5 534	8 480	9 661	9 103
Scrap	8 503	10 229	7 550	8 819	7 973
Romania					
Unwrought	25 093	22 116	10 926	2 282	2 915
Scrap	1 710	4 197	437	2 443	3 218
Serbia					
Ores and concentrates	50 519	55 655	33 808	...	3 063
Unwrought, unrefined	1 341	761	0	26	2
Unwrought, refined	21 875	21 875	20 685	37 046	26 943
Slovakia					
Matte and cement	...	...	3 300	799	10
Unwrought	1 557	4 120	4 685	6 153	7 531
Scrap	17 476	17 350	29 141	40 347	30 687
Slovenia					
Unwrought	2 809	2 649	2 826	8 369	7 062
Scrap	10 431	9 687	11 452	22 407	12 350
Spain					
Ores and concentrates	1 001 284	1 122 093	1 184 321	1 229 148	1 482 354
Matte and cement	75	...	21	992	17 530
Scrap	56 754	65 765	68 166	82 931	89 499
Unwrought, unrefined	1 032	3 733	3 133	518	12 747
Unwrought, refined	56 237	79 125	80 898	73 904	62 695
Unwrought alloys	5 417	4 352	3 473	3 947	6 719
Sweden					
Ores and concentrates	420 050	393 295	362 803	302 514	300 878
Scrap	81 015	91 839	96 542	108 971	121 099
Unwrought, unrefined	10 495	23 539	22 072	3 100	5 843
Unwrought, refined	31 535	21 123	23 107	46 383	31 760
Unwrought alloys	5 867	5 239	2 040	5 181	3 186
Switzerland					
Unwrought	5 960	5 903	3 473	3 229	2 353
Scrap	7 995	5 266	2 710	6 061	4 178
Unwrought alloys	4 089	3 925	3 276	4 137	3 520

Imports continued

tonnes

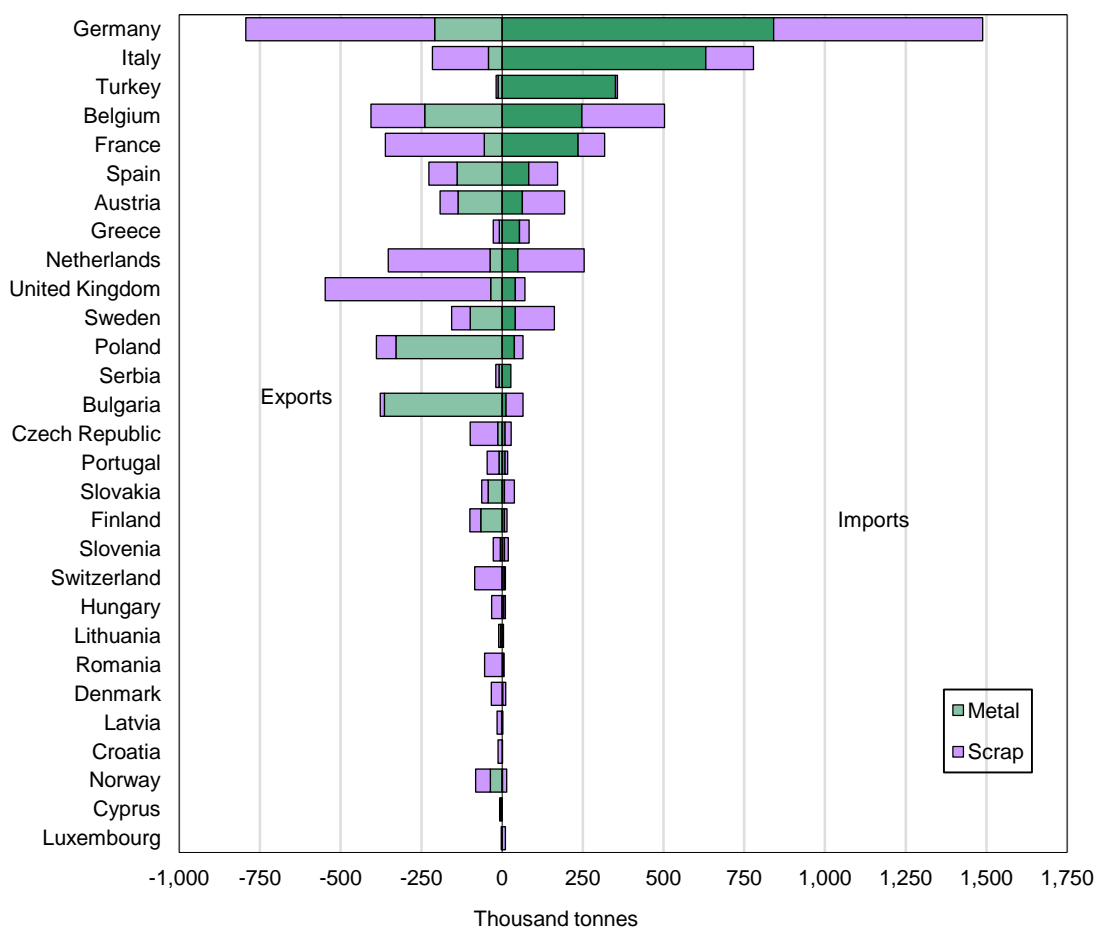
Country	2007	2008	2009	2010	2011
Turkey					
Ores and concentrates	32	3 884	0	1 329	5
Scrap	3 013	1 263	870	3 943	6 181
Unwrought, unrefined	34 389	38 116	4 852	5 892	4 329
Unwrought, refined	128 077	287 705	289 672	332 482	337 337
Unwrought alloys	1 975	3 060	2 828	6 601	9 450
United Kingdom					
Ores and concentrates	1 676	699	581	189	125
Matte and cement	2	14	1	22	20
Scrap	21 852	21 132	18 549	27 495	29 010
Unwrought, unrefined	7 401	5 529	3 034	2 039	1 267
Unwrought, refined	46 820	47 716	45 249	40 708	34 627
Unwrought alloys	6 202	5 721	4 066	5 688	5 498

Notes

(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 - EU35 trade in 2011



Diamond

Diamond is a polymorph of carbon and is the hardest substance known. It is used mainly in jewellery, abrasives and cutting tools.

Russia was the world's largest producer in 2011, with 28 per cent of the total world output. The second largest was Botswana (19 per cent), followed by Democratic Republic of Congo (16 per cent), Canada (nine per cent) and Zimbabwe (seven per cent).

Exports of diamond

Country	Carats				
	2007	2008	2009	2010	2011
Austria					
Unsorted	£85 000	£71 000	£189 000	£729 000	£3 302 000
Gem, cut	£2 792 000	£5 778 000	£4 053 000	£3 564 000	£6 211 000
Dust	£115 000	£165 000	£260 000	£225 000	£66 000
Belgium					
Gem, rough	135 000 000	99 500 000	85 500 000	113 000 000	90 500 000
Gem, cut	8 001 010	5 950 000	5 178 000	6 034 000	6 232 100
Industrial	1 000 000	500 000	1 670 000	3 320 000	3 170 746
Dust	27 000 000	84 955 146	66 748 549	89 603 589	85 513 940
Czech Republic					
Gem, cut	£529 000	£3 947 000	£3 046 000	£4 465 000	£7 709 000
Denmark					
Unsorted	135 000	95 000	15 000	...	2 875 000
Gem, cut	995 000	3 000 000	685 000	520 000	545 000
Industrial	75 000	1 025 000	40 000	90 000	125 000
Dust	15 000	5 000	5 400 000	7 625 000	24 850 000
France					
Unsorted	22 863	9 386	8 723	3 743	869
Gem	227 372	293 420	394 845	145 682	129 943
Dust	428 165	838 620	940 610	1 609 470	8 768 911
Germany					
Unsorted (a)	* £760 000	* £1 285 000	* £775 000	* £863 000	* £489 000
Gem	157 055	155 988	179 213	161 687	154 445
Industrial	8 952	11 966	22 919	7 080	5 224
Dust	3 366 830	3 410 935	2 560 000	5 355 000	12 810 000
Greece					
Unsorted	£23 000	£29 000	£206 000	£43 000	£99 000
Gem	£281 000	£501 000	£1 356 000	£1 956 000	£405 000
Industrial	£44 000	£105 000	£31 000	£49 000	£20 000
Ireland, Republic of					
Industrial	24 845 000	4 872	204 108	58 658	2 801 447
Dust	...	...	25 308 022	65 757 012	419 763 462
Italy					
Gem, cut	131 174	149 203	155 195	243 170	181 572
Dust	66 016 904	10 384 560	1 550 895	15 054 770	14 873 656
Luxembourg					
Dust	540 955	346 291 881	313 330	750 900	1 006 960
Netherlands					
Unsorted	£1 000 000	£442 000	£494 000	£371 000	£1 799 000
Gem, cut	£6 214 000	£7 567 000	£3 780 000	£3 132 000	£16 418 000
Industrial	£1 891 000	£2 156 000	£1 415 000	£2 179 000	£1 282 000
Dust	£82 000	£45 000	£196 000	£51 000	£57 000
Portugal					
Gem, cut	£105 000	£55 000	£52 000	£550	£61 000
Dust	10 000	—	10 000	92 107	788 459
Slovakia					
Dust	...	...	100	6 250 000	2 934 017
Spain					
Unsorted	£346 000	£503 000	£266 000	£292 000	£154 000
Gem, cut	£8 478 000	£6 631 000	£5 328 000	£7 350 000	£9 802 000
Industrial	£208 000	£498 000	£171 000	£210 000	£590 000
Dust	254 600	400 810	182 628	689 563	8 454 551

Exports continued

Carats

Country	2007	2008	2009	2010	2011
Switzerland					
Gem, rough	4 360	7 888	1 230	14 892	3 628
Gem, cut	559 591	582 240	252 685	357 976	435 272
Industrial	12 100	34 058	7 139	7 902	8 978
Dust	40 985 000	44 105 000	30 400 000	60 980 000	70 880 000
Turkey					
Dust	466 500	3 494 000	1 000 025	1 253 750	7 702 486
United Kingdom					
Unsorted	5 307 857	3 388 395	4 090 534	3 689 202	2 735 369
Gem, rough	84 573 134	66 479 817	43 775 775	51 769 860	41 541 219
Gem, cut	477 463	795 612	257 202	283 435	1 292 162
Industrial	4 754 029	6 121 081	4 440 922	2 478 568	3 864 054
Dust	104 552 775	122 681 695	105 427 105	113 451 535	42 269 921

Notes

- (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	2007	2008	2009	2010	2011
Austria					
Unsorted	£957 000	£1 648 000	£543 000	£729 000	£3 445 000
Gem, cut	£6 405 000	£8 881 000	£9 795 000	£9 838 000	£19 112 000
Industrial	£884 000	£473 000	£313 000	£193 000	£5 500
Dust	26 000 000	33 000 000	17 000 000	30 000 000	38 000 000
Belgium					
Unsorted	854 021	526 381	495 270	462 450	418 531
Gem, rough	63 500 000	55 000 000	44 000 000	63 000 000	67 500 000
Gem, cut	3 000 000	4 500 000	500 000	3 000 000	3 000 000
Industrial	7 500 000	8 000 000	3 500 000	3 000 000	1 000 000
Dust	17 000 000	63 000 000	35 000 000	61 000 000	58 000 000
Bulgaria					
Dust	14 770 306	7 623 860	4 940 300	7 251 395	8 000 000
Cyprus					
Gem, cut	£1 311 000	£1 564 000	£1 724 000	£955 000	£976 000
Industrial	£1 042 000	£1 311 000	£587 000	£1 007 000	£1 536 000
Czech Republic					
Gem, cut	5 837	116 669	7 306	5 567	6 848
Industrial	43 006	30 181	7 640	5 061	17 069
Dust	£884 000	£1 369 000	£977 000	£1 704 000	£1 954 000
Denmark					
Unsorted	£928 000	£1 168 000	£40 000	£255 000	£82 000
Gem, cut	£8 473 000	£7 424 000	£4 680 000	£5 339 000	£5 884 000
Industrial	£388 000	£104 000	£223 000	£59 000	£88 000
Dust	1 056 203	791 502	10 000 000	500 000	500 000
Finland					
Gem, rough	£222 000	£109 000	£56 000	£168 000	£131 000
Gem, cut	£3 004 000	£3 698 000	£3 133 000	£3 575 000	£3 346 000
Dust	682 850	625 200	273 415	519 830	780 000
France					
Gem, rough	656	344	1 854	469	2 960
Gem, cut	439 204	450 568	691 852	468 867	660 561
Industrial	81 570	73 641	40 221	30 480	30 012
Dust	8 984 745	13 938 146	9 314 960	12 512 821	22 167 841
Germany					
Gem	515 262	709 636	301 075	377 399	371 058
Industrial	1 090 991	505 400	211 630	122 838	141 851
Dust	45 596 025	45 914 930	25 210 000	60 060 000	89 235 000

Diamond

Imports continued

	Carats				
Country	2007	2008	2009	2010	2011
Greece					
Unsorted	9 245 000	118 725 000	2 375 000	910 000	470 000
Gem, rough	205 000	425 000	3 365 000	920 000	...
Gem, cut	9 470 000	2 815 000	6 370 000	8 365 000	2 615 000
Industrial	11 355 000	22 810 000	43 195 000	43 750 000	36 800 000
Dust (a)	* 5 795 000	* 4 371 000	* 1 813 000	* 214 000	* 77 000
Hungary					
Gem, cut	£52 000	£220 000	£167 000	£280 000	£657 000
Industrial	(a)* £290 200	(a)* £293 900	£171 457	£168 340	£674 606
Dust (a)	* 3 214 500	* 4 550 300	* 5 832 400	* 9 411 700	* 12 763 300
Iceland					
Gem, cut	* 500 000	* 200 000	* 100 000	110 592	90 000
Ireland, Republic of					
Unsorted	42 460 000	17 535 000	4 935 000	3 600 000	1 615 000
Gem, rough	4 365 000	3 240 000	1 885 000	1 565 000	1 620 000
Gem, cut	46 100 000	28 020 000	18 170 000	11 385 000	6 745 000
Industrial	35 720 000	10 560 000	2 100 000	4 585 000	2 570 000
Dust	233 626 080	232 059 616	86 782 073	86 782 073	737 328 237
Italy					
Unsorted	915 000	1 905 000	355 000	990 000	975 000
Gem, rough	80 000	10 000	25 000	60 000	115 000
Gem, cut	14 560 000	12 135 000	9 875 000	13 935 000	13 160 000
Industrial	880 000	1 145 000	675 000	1 545 000	1 615 000
Dust	161 010 000	252 290 000	121 055 000	196 860 000	248 520 000
Luxembourg					
Unsorted	£113 000	£24 000	£47 000	£20 000	£248 000
Gem, cut	£255 000	£595 000	£446 000	£418 000	£533 000
Dust	£519 000	£691 000	£227 000	£609 000	£472 000
Montenegro					
Dust	5 000	75 000	30 000	10 000	45 000
Netherlands					
Unsorted	£299 000	£803 000	£551 000	£80 000	£192 000
Gem, rough	£320 000	£1 071 000	£95 000	£47 000	£38 000
Gem, cut	£13 943 000	£17 750 000	£10 757 000	£15 248 000	£35 316 000
Industrial	£859 000	£1 088 000	£613 000	£624 000	£1 393 000
Dust	1 089 105	791 805	426 830	290 475	2 074 815
Poland					
Gem, cut	£3 689 000	£4 686 000	£2 509 000	£2 128 000	£3 805 000
Industrial	150 918	237 903	169 851	35 260	16 703
Dust	3 149 550	27 584 081	263 119 707	1 970 015	213 097 170
Portugal					
Gem, cut	£3 435 000	£3 949 000	£1 756 000	£2 039 000	£3 732 000
Industrial	£427 000	£296 000	£246 000	£111 000	£122 000
Dust	8 473 445	5 891 661	5 514 973	10 117 653	16 401 864
Slovakia					
Gem, cut	£88 000	£2 924 000	£1 993 000	£2 530 000	£2 720 000
Industrial	64	10 817	* 2 600	55 000	1 037 208
Dust	...	...	59 781	18 560 000	129 250
Slovenia					
Dust	1 670 284	1 395 416	723 391	1 656 306	1 423 460
Spain					
Unsorted	£3 667 000	£1 959 000	£1 591 000	£1 814 000	£3 864 000
Gem, cut	£57 921 000	£40 012 000	£30 290 000	£26 488 000	£25 312 000
Industrial	£1 396 000	£1 485 000	£917 000	£275 000	£605 000
Dust	67 062 395	42 938 192	30 861 760	27 500 320	27 699 364
Sweden					
Unsorted	£141 000	£100 000	£23 000	£125 000	£105 000
Gem, cut	9 465	10 938	8 709	9 615	12 118
Industrial	224 486	217 127	6 907	26 277	5 930
Dust	11 500 000	4 000 000	1 500 000	8 000 000	9 500 000
Switzerland					
Gem, rough	8 634	11 566	4 498	20 460	3 263
Gem, cut	1 209 708	1 147 690	534 700	840 245	870 000
Dust	59 930 000	54 445 000	39 130 000	74 015 000	101 250 000

Imports continued					Carats
Country	2007	2008	2009	2010	2011
Turkey					
Gem	135 413	141 553	51 740	131 146	141 277
Industrial	36 999	102 596	29 724	46 890	82 417
Dust	9 835 000	18 430 000	19 120 000	25 190 000	31 125 000
United Kingdom					
Unsorted	13 661 786	10 283 610	8 348 854	8 703 907	8 484 526
Gem, rough	81 195 314	59 534 653	44 064 081	40 559 260	38 472 604
Gem, cut	973 433	1 343 330	868 406	761 455	18 292 931
Industrial	7 524 168	5 127 610	3 321 670	7 299 364	10 236 376
Dust	198 484 150	187 268 975	88 148 090	111 136 020	32 411 894

Notes

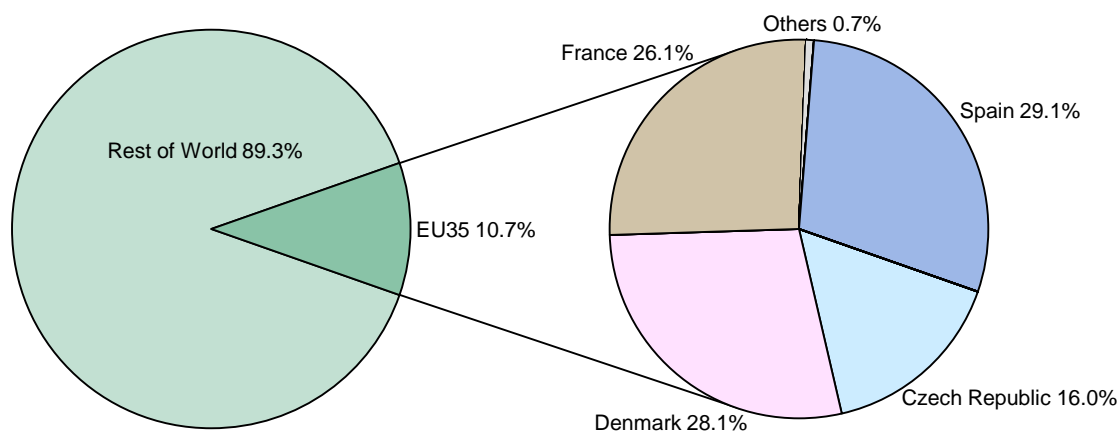
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- (a) BGS estimates, based on known exports from certain countries

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.

Argentina was the world's largest producer in 2011, with 37 per cent of the total world output. The second largest was USA (22 per cent), followed by China (16 per cent), Japan (four per cent) and Mexico (three per cent).

EU35 Production of diatomite 2011



Production of diatomite

Country	2007	2008	2009	2010	2011
Czech Republic	19 000	31 000	—	32 000	46 000
Denmark					
Moler (a)	92 416	92 108	82 778	83 756	80 854
France	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Hungary	1 424	—	1 277	1 200	1 312
Poland	600	600	670	1 000	600
Romania	2 057	—	—	—	—
Spain (b)	45 480	46 192	29 194	64 346	83 624
EU35 Total	235 977	244 900	188 919	257 302	287 390

Notes

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

(b) Including Tripoli

EU35 Production of diatomite 2007 - 11



Exports of diatomite

tonnes

Country	2007	2008	2009	2010	2011
Austria	4 455	3 043	3 286	3 467	2 756
Belgium	1 140	2 612	1 907	3 004	3 122
Czech Republic	1 094	4 128	3 789	4 231	5 182
Denmark (a)	* 63 600	* 67 800	* 57 500	* 57 300	* 56 800
France	29 607	23 239	21 713	26 822	25 420
Germany	7 949	7 189	5 035	5 361	14 251
Italy	3 884	9 991	10 392	6 716	2 226
Lithuania	34	30	78	551	615
Netherlands	348	301	1 365	359	633
Norway	566	770	6	1	—
Poland	774	277	85	111	788
Portugal	943	554	473	7 545	7 299
Spain	6 399	5 306	4 678	7 382	6 637
Sweden	3 497	749	693	829	1 098
Turkey	34 424	40 370	39 267	37 432	28 104
United Kingdom	1 238	903	533	1 650	797

Note

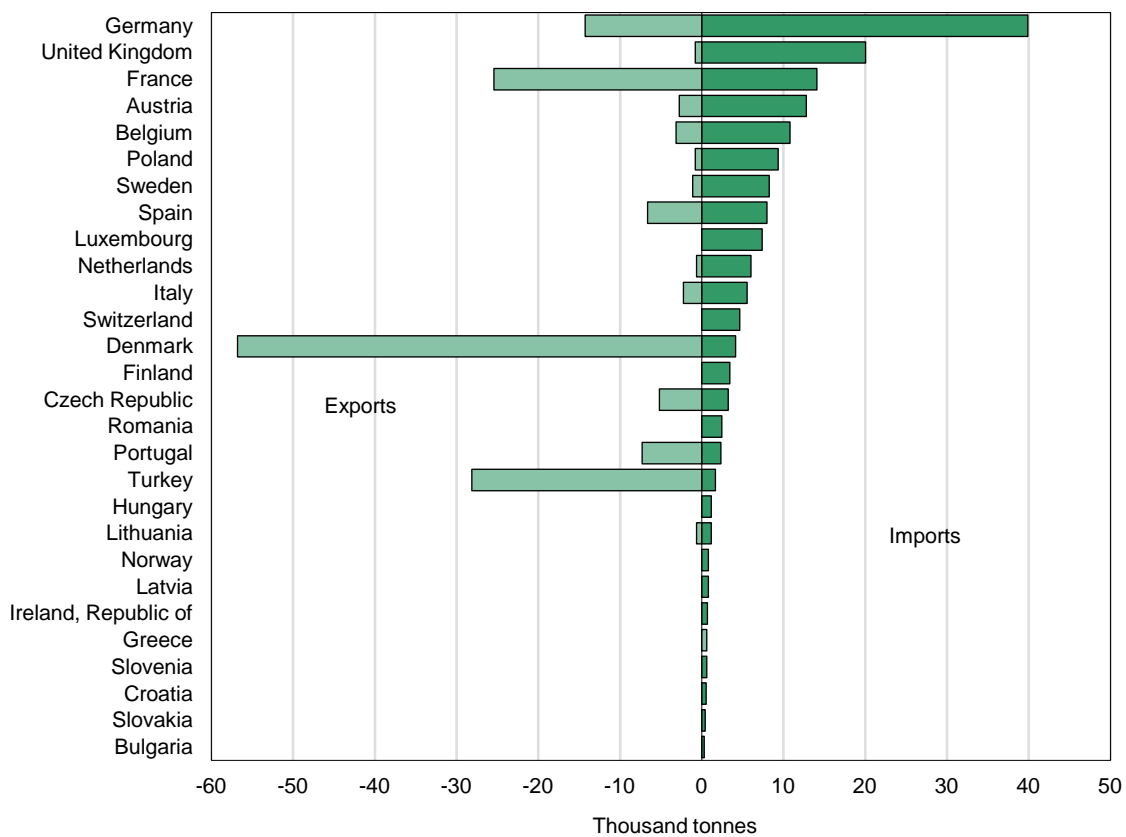
(a) BGS estimates, based on known imports into certain countries

Imports of diatomite

tonnes

Country	2007	2008	2009	2010	2011
Austria	13 710	12 561	16 327	13 324	12 798
Belgium	8 483	8 353	6 414	11 813	10 815
Bulgaria	436	587	404	249	310
Croatia	610	511	462	402	555
Czech Republic	3 318	4 768	3 173	2 753	3 263
Denmark	4 244	5 849	3 347	3 294	4 165
Finland	3 510	3 344	3 015	4 367	3 432
France	14 371	14 308	15 163	17 477	14 098
Germany	42 882	49 237	38 258	43 487	39 892
Greece	958	790	482	668	623
Hungary	2 111	1 110	796	957	1 189
Ireland, Republic of	859	1 458	1 243	640	699
Italy	4 487	3 939	2 497	3 920	5 555
Latvia	545	681	534	412	805
Lithuania	1 178	763	836	744	1 174
Luxembourg	159	1 492	7 054	7 858	7 394
Netherlands	7 214	6 275	3 794	4 641	6 034
Norway	1 645	1 891	931	842	808
Poland	8 235	9 504	9 790	6 753	9 365
Portugal	1 731	1 372	1 127	2 284	2 340
Romania	3 254	3 798	2 477	2 269	2 459
Slovakia	549	577	901	784	415
Slovenia	686	644	550	718	623
Spain	9 447	8 861	9 600	8 191	7 989
Sweden	6 976	6 929	6 082	8 099	8 247
Switzerland	4 636	4 864	5 071	5 758	4 642
Turkey	1 385	1 491	1 392	1 319	1 702
United Kingdom	24 224	23 084	22 014	18 649	20 042

Diatomite - EU35 trade in 2011

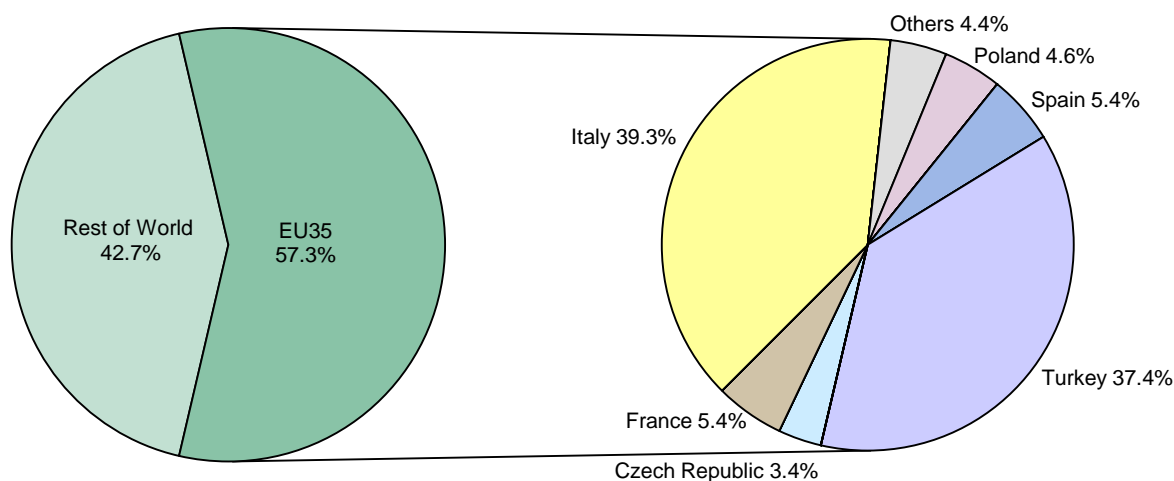


Feldspar

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

Italy was the world's largest producer in 2011, with 23 per cent of the total world output. The second largest was Turkey (21 per cent), followed by China (11 per cent), Thailand (five per cent) and USA (three per cent).

EU35 Production of feldspar 2011



Production of feldspar

Country	2007	2008	2009	2010	2011
Bulgaria	* 90 000	* 90 000	* 80 000	* 80 000	* 80 000
Czech Republic	514 000	488 000	431 000	388 000	407 000
Finland	48 980	45 250	23 120	28 013	26 292
France	* 650 000	* 650 000	* 550 000	* 650 000	* 650 000
Germany	171 303	161 416	140 000	* 150 000	* 150 000
Greece	95 000	62 000	55 737	23 050	10 200
Italy	3 524 389	4 727 000	* 4 700 000	* 4 700 000	* 4 700 000
Macedonia	32 814	28 920	19 377	23 188	25 032
Norway	65 000	62 000	48 000	56 000	25 271
Poland	497 900	599 100	445 500	513 700	* 550 000
Portugal	378 521	230 427	210 266	169 722	179 600
Romania	41 477	22 995	14 317	6 049	3 814
Serbia	* 250	* 200	149	253	171
Slovakia	—	10 000	13 000	—	—
Spain	683 134	690 256	597 496	691 894	* 650 000
Sweden	25 000	22 000	18 000	22 000	30 000
Turkey	6 000 000	6 500 000	4 000 000	6 281 597	4 477 993
United Kingdom (a)(b)	1 112	430	—	—	—
EU35 Total	12 818 880	14 389 994	11 345 962	13 783 466	11 965 373

Notes

(a) China stone

(b) Including weathered granite feldspar

EU35 Production of feldspar 2007 - 11



Exports of feldspar

tonnes

Country	2007	2008	2009	2010	2011
Austria	15 058	15 194	14 025	13 474	11 807
Belgium	190	994	1 117	64	317
Bulgaria	22 519	16 912	15 007	19 087	19 329
Czech Republic	168 259	171 596	135 533	129 715	166 859
Finland	37 392	36 482	26 613	31 844	31 700
France	261 112	244 785	182 575	226 149	226 934
Germany	125 258	121 777	70 130	78 610	76 300
Greece	6 052	5 806	718	1 119	1 562
Italy	226 963	324 977	126 289	194 763	288 246
Macedonia	28 766	23 762	18 457	21 924	25 111
Netherlands	456	555	1 355	105	112
Norway	66 484	58 211	47 711	55 637	30 617
Poland	1 849	2 049	1 829	3 050	3 012
Portugal	4 048	873	1 290	2 190	3 197
Romania	25 102	16 438	8 375	1	283
Spain	74 461	79 120	56 161	69 337	71 959
Sweden	14 383	10 670	7 646	11 251	19 258
Turkey (a)	* 4 300 000	* 4 600 000	* 2 500 000	* 3 400 000	* 3 500 000
United Kingdom	40	82	369	38	34

Note

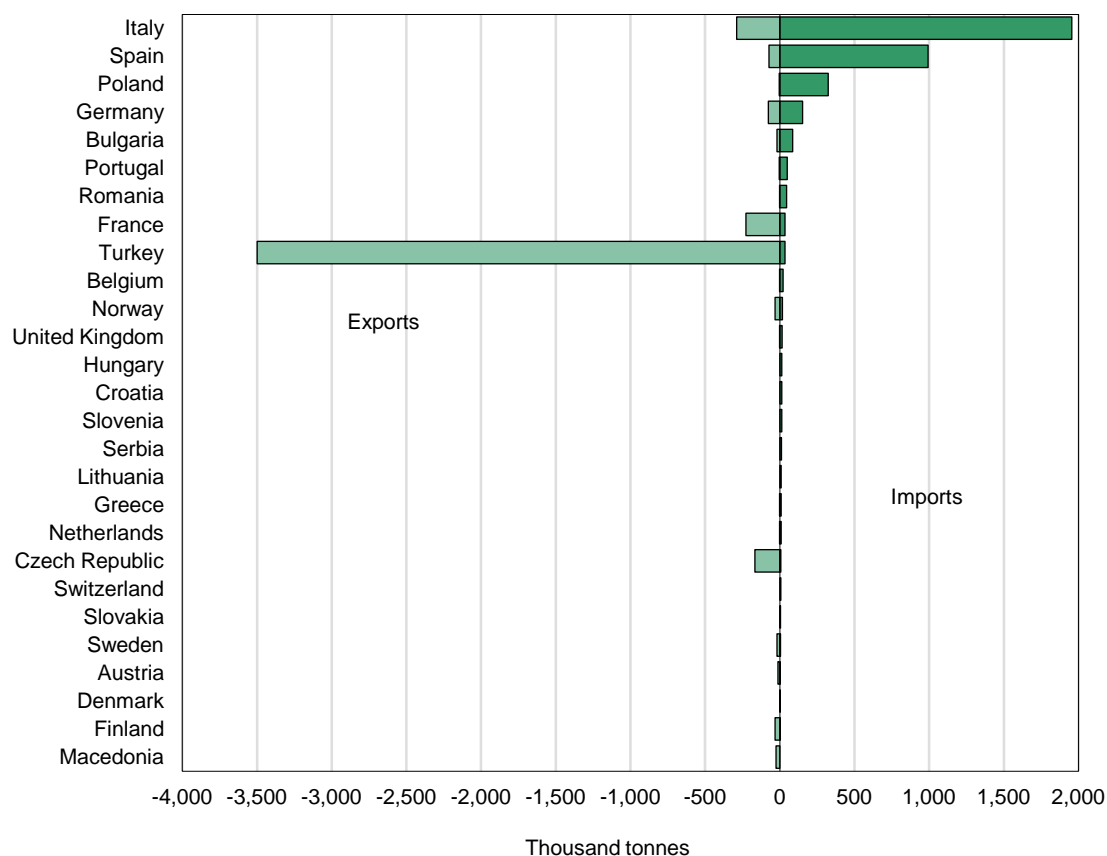
(a) BGS estimates, based on known imports into certain countries

tonnes

Imports of feldspar

Country	2007	2008	2009	2010	2011
Austria	3 816	1 928	1 933	2 433	2 804
Belgium	25 951	34 837	27 113	24 495	22 623
Bulgaria	35 851	31 346	54 178	86 861	86 056
Croatia	16 212	15 983	14 603	14 763	14 001
Czech Republic	14 213	11 414	5 330	6 298	6 527
Denmark	3 145	2 678	2 666	1 211	2 612
Finland	1 023	699	851	1 209	1 217
France	20 974	59 857	43 981	31 721	34 907
Germany	143 596	143 758	130 081	139 663	153 713
Greece	478	2 830	5 851	12 195	9 469
Hungary	13 567	10 418	14 499	14 235	14 211
Italy	2 573 637	2 511 704	1 570 345	1 951 827	1 954 499
Lithuania	1 693	1 516	2 958	6 265	10 278
Netherlands	8 529	12 633	8 849	15 721	9 071
Norway	12 930	17 367	13 781	16 413	18 228
Poland	237 963	243 798	176 717	243 645	324 426
Portugal	108 150	85 400	72 275	63 675	49 902
Romania	48 999	49 160	37 639	36 924	45 421
Serbia	16 965	15 131	8 424	10 139	11 864
Slovakia	27 548	24 788	16 352	5 886	5 590
Slovenia	6 877	6 576	8 899	14 954	13 168
Spain	1 407 350	1 410 760	664 830	856 406	993 378
Sweden	6 021	3 861	4 268	6 410	4 363
Switzerland	8 056	7 653	6 478	6 593	6 124
Turkey	46 323	28 594	28 166	39 953	34 726
United Kingdom	26 751	18 899	9 299	17 584	16 750

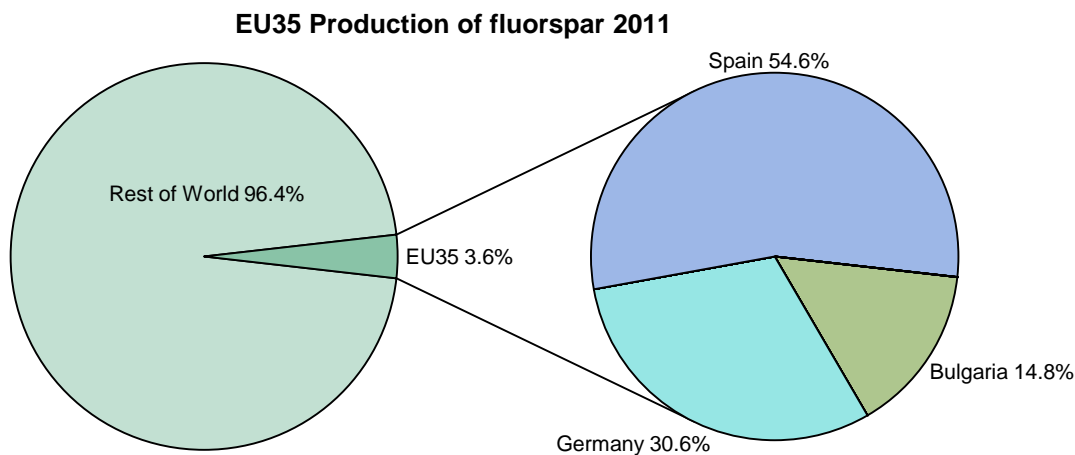
Feldspar - EU35 trade in 2011



Fluorspar

Fluorspar is the commercial name for the mineral fluorite (calcium fluoride) and it is an important raw material source of fluorine. Most fluorspar production is used in the manufacture of hydrofluoric acid which is used primarily in the pharmaceutical and agricultural industries. Fluorspar is also used in steel and aluminium manufacture.

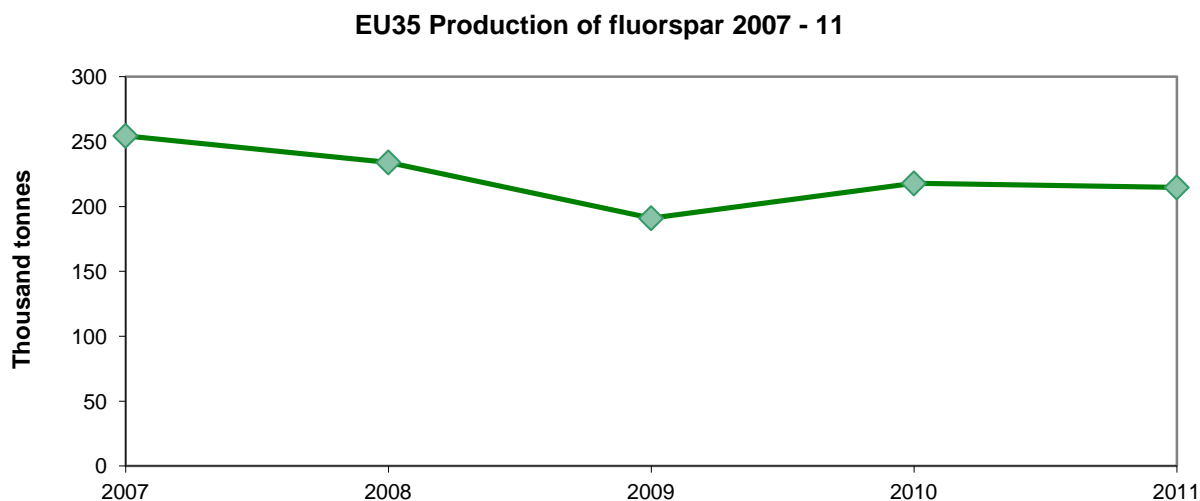
China was the world's largest producer in 2011, with 55 per cent of the total world output. The second largest was Mexico (20 per cent), followed by Mongolia (seven per cent), Russia (four per cent) and South Africa (two per cent).



Production of fluorspar

Country	2007	2008	2009	2010	2011
Bulgaria	—	—	32	10	31 800
Germany	54 359	48 519	49 962	59 086	65 619
Spain	155 197	148 736	122 533	132 341	117 333
United Kingdom	44 936	36 801	18 536	26 420	—
EU35 Total	254 492	234 056	191 063	217 857	214 752

tonnes



Exports of fluorspar

tonnes

Country	2007	2008	2009	2010	2011
Belgium	105 822	156 066	84 491	122 483	118 782
Czech Republic	8 415	4 488	6 147	10 575	10 564
Germany	56 023	50 338	31 157	33 487	45 955
Italy	19 281	31 271	9 518	6 740	28 942
Netherlands	27 213	12 665	11 333	14 023	28 870
Spain	29 117	13 109	35 366	1 680	3 312
Sweden	7 764	11 538	6 745	8 101	11 053
United Kingdom	589	187	303	412	590

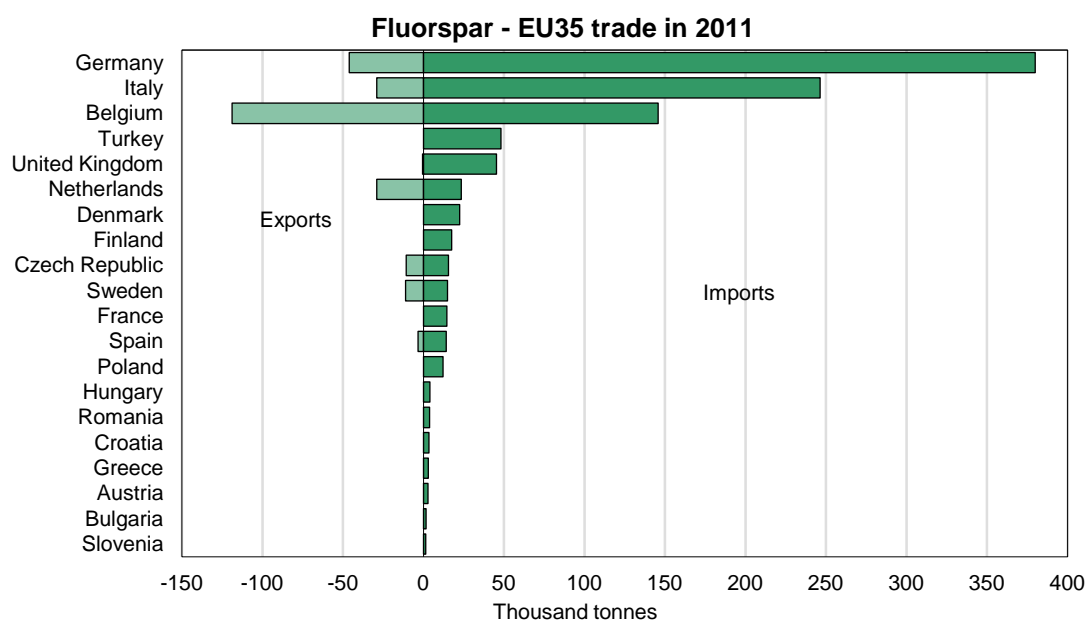
Imports of fluorspar

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Country	2007	2008	2009	2010	2011
Austria	2 517	3 405	1 956	3 490	2 911
Belgium	129 159	169 219	91 928	134 266	145 776
Bulgaria	1 326	651	778	700	1 742
Croatia	149	289	165	146	3 527
Czech Republic	24 915	3 440	8 626	14 495	15 547
Denmark	8 218	17 003	33 149	13 086	22 462
Finland	15 064	12 366	23 178	16 740	17 605
France	48 758	21 256	13 124	14 601	14 655
Germany	346 581	357 914	187 330	261 999	380 027
Greece	2 232	2 281	1 954	2 652	3 073
Hungary	7 460	4 512	(b)* 1 500	2 662	4 152
Italy	236 797	238 008	212 415	200 184	246 374
Latvia	220	240	468	678	775
Luxembourg	1 278	1 343	618	983	887
Macedonia	380	300	457	350	600
Netherlands	48 089	13 860	13 014	14 295	23 603
Poland	8 682	8 691	8 562	11 013	12 239
Portugal	2 423	1 828	2 243	636	794
Romania	4 738	2 526	1 481	2 911	3 817
Slovakia	908	1 143	644	954	762
Slovenia	1 017	1 326	1 064	1 754	1 463
Spain	29 560	32 016	17 148	12 008	14 198
Sweden	12 089	14 214	12 959	9 451	14 980
Switzerland	533	571	370	492	210
Turkey	23 139	34 073	36 114	37 977	48 210
United Kingdom	3 875	8 429	6 436	1 294	45 327

Note

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

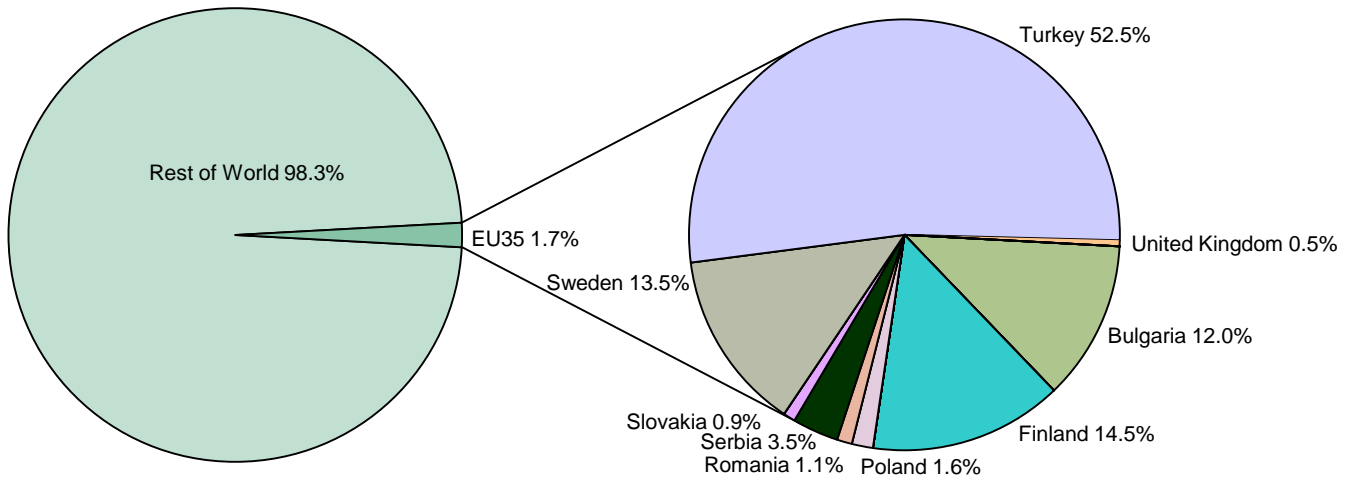


Gold

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 was the world's largest producer in 2011, with 14 per cent of the total world output. The second largest was Australia (ten per cent), followed by USA (nine per cent), Russia and South Africa (seven per cent each).

EU35 Mine production of gold 2011



Mine production of gold

kilograms

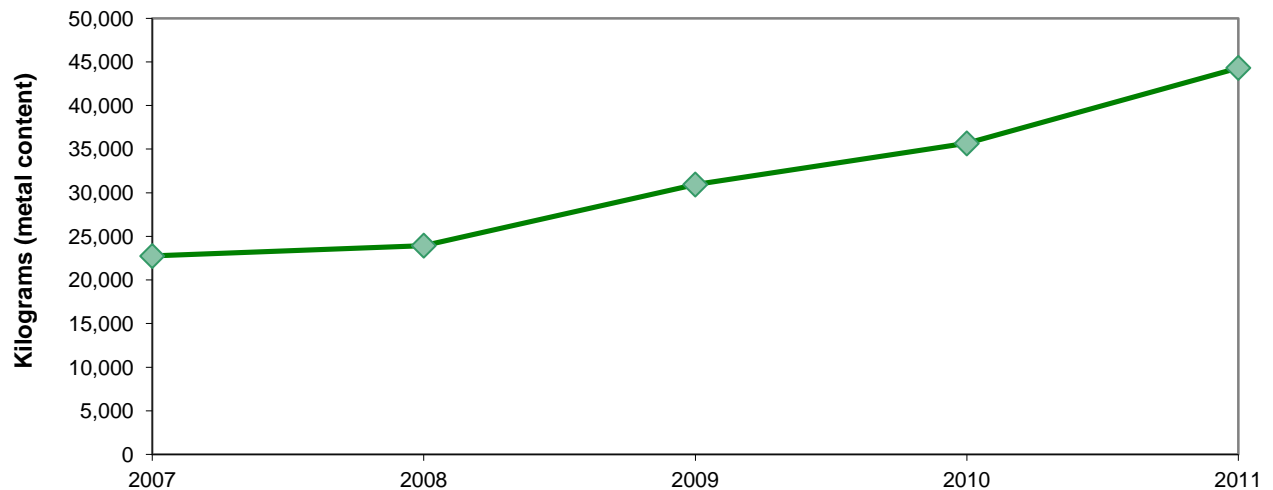
Country	2007	2008	2009	2010	2011
Bulgaria	3 964	4 160	4 482	4 489	5 302
Finland	1 639	1 336	3 808	5 644	6 438
Poland (a)	883	902	814	776	703
Romania	* 500	500	* 500	* 500	* 500
Serbia (a)	500	* 712	818	856	1 534
Slovakia	92	198	346	534	398
Sweden	5 159	4 953	5 542	6 285	5 994
Turkey	9 920	11 016	14 450	16 400	23 248
United Kingdom	88	163	187	177	202
EU35 Total	22 745	23 940	30 947	35 661	44 318

Notes

- (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

EU35 Production of gold 2007 - 11



Exports of gold

kilograms

Country	2007	2008	2009	2010	2011
Austria					
Metal	14 900	18 700	18 800	27 800	22 500
Waste and scrap	17 300	2 200	2 700	5 900	2 900
Belgium					
Metal	24 697	24 538	25 683	22 842	6 200
Waste and scrap	128 400	134 500	29 100	173 700	67 800
Croatia					
Metal	246	88	140	256	1 408
Czech Republic					
Metal	3 900	4 000	9 800	12 000	21 400
Waste and scrap	6 100	5 200	5 600	4 400	2 700
Denmark					
Waste and scrap	600	600	500	500	1 800
Finland					
Metal	3 399	2 835	2 207	4 168	4 970
Waste and scrap	200	466	539	878	1 268
France					
Metal	20 229	22 247	22 447	27 729	45 303
Waste and scrap	29 300	50 700	34 094	24 189	29 961
Germany					
Metal	71 250	* 120 000	113 039	221 003	226 243
Waste and scrap	14 800	4 800	62 603	904 379	688 482
Greece					
Metal	997	495	581	48	2 455
Hungary					
Metal	871	657	1 312	1 827	2 214
Waste and scrap	...	...	...	2 221 600	2 665 300
Ireland, Republic of					
Waste and scrap	7 365	5 578	11 155	10 480	9 268
Italy					
Metal	56 360	51 260	106 646	109 762	176 952
Waste and scrap	160	1 376	173	154 845	1 006
Luxembourg					
Metal	12 200	55 600	38 000	32 700	8 000
Malta					
Waste and scrap	...	...	...	17 008	27 387
Netherlands					
Metal	22 468	37 439	15 515	34 851	50 559
Waste and scrap	4 433	45 456	1 222	57 680	112 629
Norway					
Metal	2 601	3 847	3 865	4 567	7 439
Waste and scrap	426	600	1 197	1 482	1 904

Gold

Exports continued

kilograms

Country	2007	2008	2009	2010	2011
Poland					
Metal	300	105 000	121 100	1 100	3 000
Waste and scrap	700	4 800	18 000	588	26
Portugal					
Metal	200	...	—	6 600	13 100
Waste and scrap	1 100	36 100	800	800	100
Serbia					
Metal	315	302	3 278	93	78
Slovakia					
Metal	4 178	2 914	3 196	2 926	20 000
Waste and scrap	1 600	800	1 200	7 300	6 800
Slovenia					
Metal	1 300	3 000	129	168	523
Waste and scrap	—	—	200	5 450	12 200
Spain					
Metal	23 667	6 966	31 466	282 816	9 444 195
Waste and scrap	92	1 147	131 376	258 156	176 652
Sweden					
Metal	17 800	19 400	14 500	14 700	12 900
Waste and scrap	65 700	29 400	60 900	5 100	21 000
Switzerland					
Metal	1 095 682	2 103 919	1 010 085	1 605 359	1 867 822
Waste and scrap	102 745	125 459	107 918	105 407	94 837
Turkey					
Metal	12 068	142 244	162 208	56 035	30 226
Waste and scrap	...	1 122	1 188	619	1 360
United Kingdom					
Metal	224 598	600 018	96 231	293 153	775 261
Waste and scrap	282 298	272 339	533 182	496 924	272 597

Note

(1) In this table the term 'metal' includes both unwrought and partly worked gold and alloys but excludes gold coin

Imports of gold

kilograms

Country	2007	2008	2009	2010	2011
Austria					
Metal	30 900	72 300	86 500	56 600	63 500
Waste and scrap	100	400	1 700	1 400	2 400
Belgium					
Metal	8 100	15 600	13 100	10 100	9 100
Waste and scrap	361 400	(a)* 61 400	(a)* 115 800	(a)* 339 000	(a)* 141 000
Bulgaria					
Metal	1 676	8 692	56	55	1 596
Croatia					
Metal	1 608	693	1 221	310	11
Czech Republic					
Metal	8 813	3 047	3 055	2 600	23 800
Waste and scrap	45 718	19 140	60 440	84 000	192 500
Denmark					
Metal	2 350	2 000	3 100	900	100 900
Estonia					
Metal	900	1 200	300	900	1 600
France					
Metal	23 567	20 071	16 877	20 037	19 721
Waste and scrap	1 100	3 300	6 248	25 070	3 886
Germany					
Metal	68 549	118 516	164 511	192 815	162 289
Waste and scrap	1 304 700	1 390 000	1 126 326	1 396 280	2 680 174
Greece					
Metal	48 500	114 500	26 600	20 700	8 400

Imports continued

Country	2007	2008	2009	2010	2011
Ireland, Republic of					
Metal	£6 260 000	£5 271 000	£4 365 000	£4 047 000	£5 356 000
Italy					
Metal	206 914	166 506	146 721	149 022	175 415
Waste and scrap	17 885	851	864	649	9 834
Lithuania					
Waste and scrap	2	—	103	—	64 500
Luxembourg					
Metal	10 200	37 400	10 000	12 300	13 300
Malta					
Metal	9 034	6 820	5 500	8 200	3 400
Netherlands					
Metal	21 706	41 012	42 806	37 888	38 349
Waste and scrap	19 174	2 422	111	110 465	188 490
Norway					
Metal	1 448	1 146	670	969	1 220
Waste and scrap	1 455	3 940	3 568	4 127	5 415
Poland					
Metal	6 100	3 800	100	200	1 500
Portugal					
Metal	2 003	1 535	1 077	1 500	1 200
Slovakia					
Metal	92 400	74 800	208 400	220 470	189 400
Slovenia					
Metal	600	1 700	400	1 100	1 700
Waste and scrap	100	9	1 210	5 400	5 600
Spain					
Metal	6 641	* 72 000	68 562	44 542	46 695
Waste and scrap	2 352	252	109	2 780	29 069
Sweden					
Metal	£18 292 000	£25 583 000	£26 296 000	£32 625 000	£42 028 000
Waste and scrap	£112 000	£565 000	£53 000	£12 243 000	£33 337 000
Switzerland					
Metal	1 667 100	2 101 027	2 198 967	2 343 070	2 684 244
Waste and scrap	57 001	214 839	319 257	219 260	205 846
Turkey					
Metal	155 471	179 606	52 654	64 105	128 367
United Kingdom					
Metal	649 163	914 000	1 166 948	800 602	1 012 882
Waste and scrap	17 046	43 143	213 440	65 833	71 449

Notes

- (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 this volume regarding currency conversion

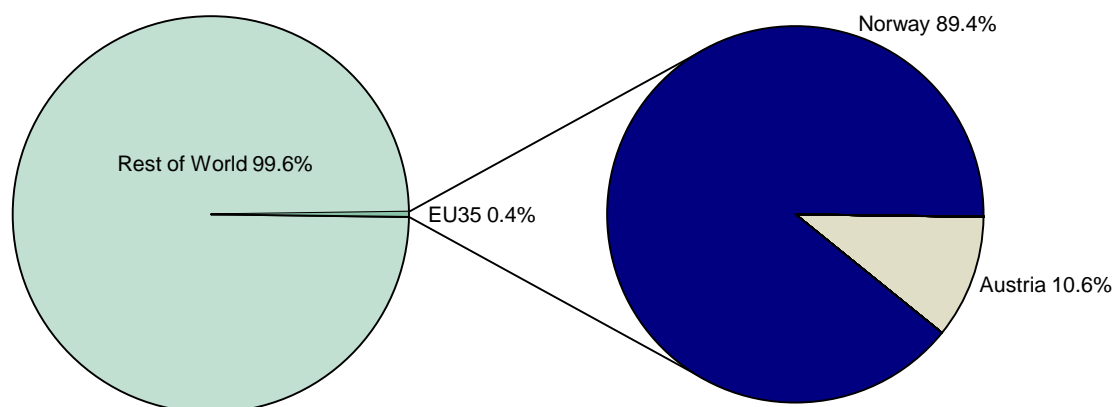
(a) BGS estimates, based on known exports from certain countries

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.

China was the world's largest producer in 2011, with 84 per cent of the total world output. The second largest was India (seven per cent), followed by Brazil (four per cent), North Korea and Canada (one per cent each).

EU35 Production of graphite 2011



Production of graphite

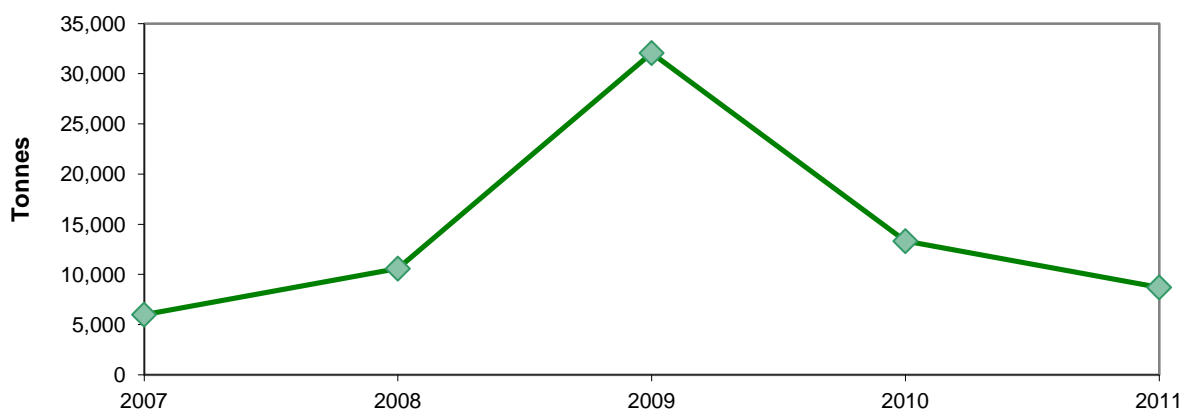
Country	2007	2008	2009	2010	2011
Austria (a)	—	250	750	420	925
Czech Republic	3 000	3 000	—	—	—
Norway	3 000	4 100	4 562	6 270	7 789
Romania	—	—	24 352	6 633	...
Turkey	—	3 236	2 400	—	—
EU35 Total	6 000	10 586	32 064	13 323	8 714

Notes

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

(a) Crude

EU35 Production of graphite 2007 - 11



Exports of graphite

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Country	2007	2008	2009	2010	2011
Austria	7 460	8 853	6 260	9 518	9 936
Belgium	438	3 815	2 634	993	1 316
Czech Republic	4 029	4 076	2 150	3 154	3 417
Finland	46 162	0	5	8	3
France	163	269	226	361	321
Germany	23 993	18 950	12 722	20 583	15 600
Italy	401	308	820	798	512
Netherlands	4 308	1 378	1 974	2 967	10 651
Poland	68	82	80	233	505
Spain	8 728	10 499	8 160	5 369	6 142
Sweden	273	252	159	254	129
Switzerland	384	600	355	326	100
Turkey	13	390	257	220	761
United Kingdom	3 065	3 156	2 271	2 981	3 660

Note

(1) This table excludes synthetic graphite

Imports of graphite

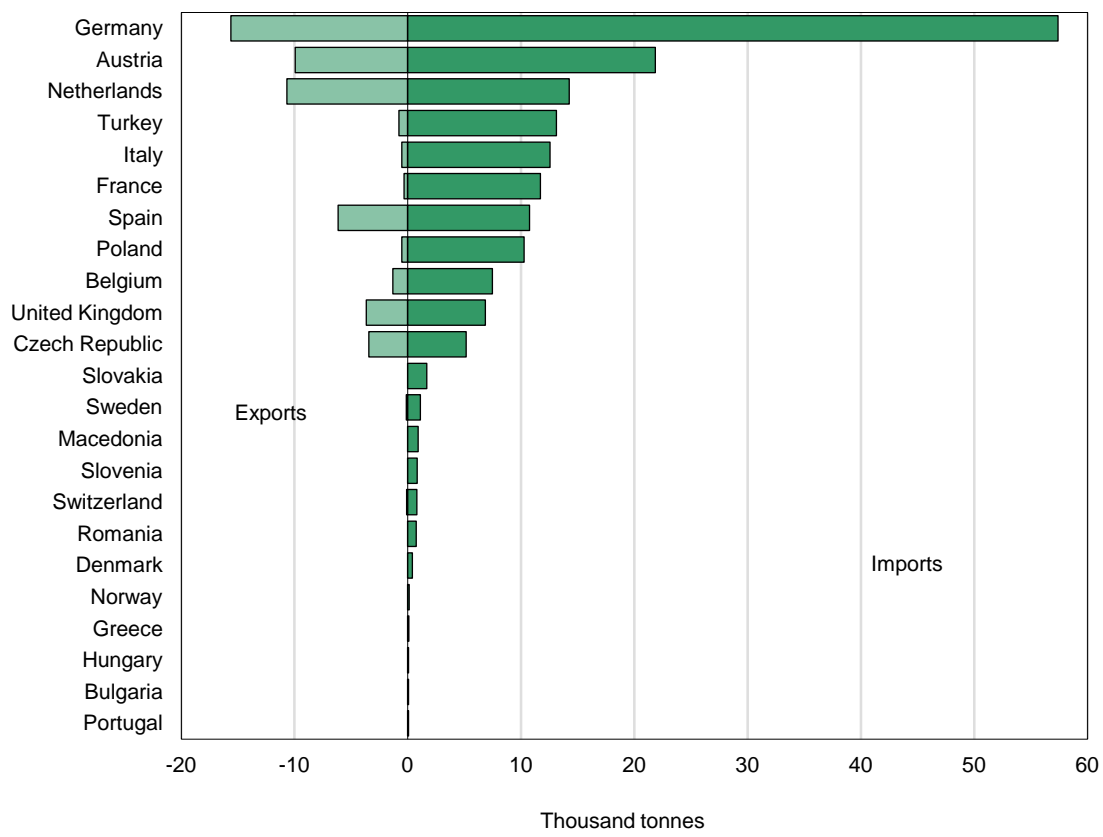
tonnes

Country	2007	2008	2009	2010	2011
Austria	17 757	30 863	4 622	18 501	21 867
Belgium	2 309	3 624	5 048	7 243	7 473
Bulgaria	250	158	132	66	65
Czech Republic	5 301	6 233	2 554	3 605	5 149
Denmark	212	185	269	303	405
France	19 250	20 618	10 376	9 981	11 725
Germany	54 627	62 180	33 293	56 333	57 411
Greece	111	142	918	219	92
Hungary	178	147	126	113	71
Iceland	—	11	2 132	18	18
Italy	11 362	11 832	5 995	8 308	12 559
Macedonia	1 969	1 522	761	875	911
Netherlands	13 463	42 612	2 487	16 692	14 266
Norway	980	561	508	400	129
Poland	5 701	4 474	3 078	6 933	10 267
Portugal	2 210	1 493	73	66	62
Romania	542	304	144	1 499	742
Slovakia	2 246	2 981	962	1 899	1 688
Slovenia	108	141	89	295	844
Spain	15 582	24 284	15 669	34 268	10 765
Sweden	1 592	1 091	835	1 315	1 129
Switzerland	966	931	306	848	823
Turkey	6 095	13 230	6 788	11 191	13 138
United Kingdom	17 225	14 309	7 850	6 989	6 869

Note

(1) This table excludes synthetic graphite

Graphite - EU35 trade in 2011

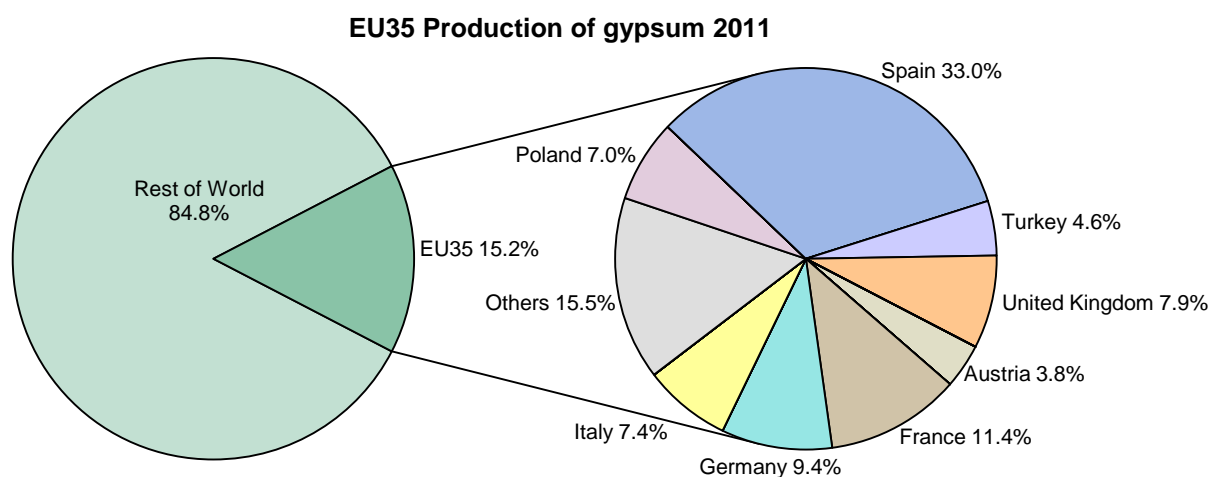


Gypsum

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 overall situation with gypsum is 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.

China was the world's largest producer in 2011, with 26 per cent of the total world output. The second largest was Iran (eight per cent), followed by Iraq and Thailand (also eight per cent each) and USA (seven per cent).



Production of Gypsum

tonnes

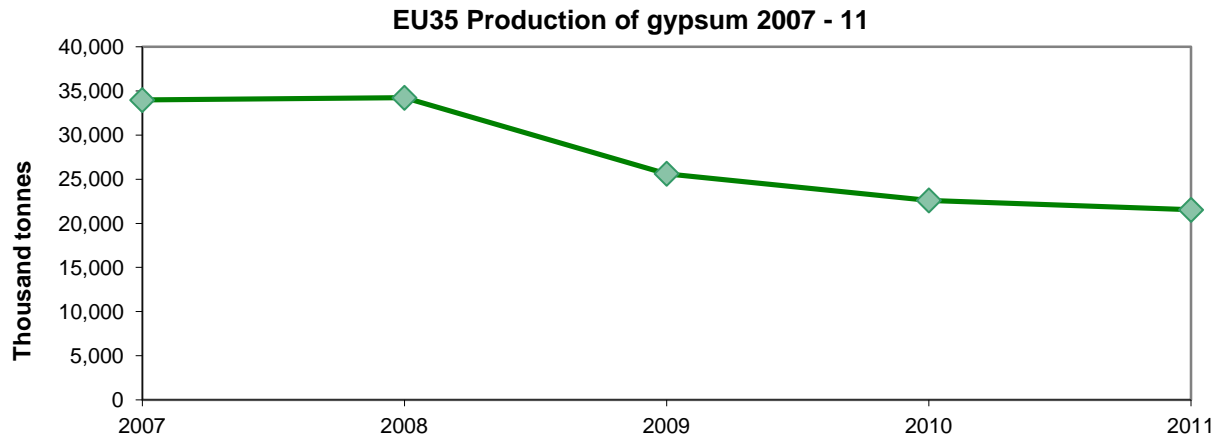
Country	2007	2008	2009	2010	2011
Austria (a)	1 063 844	1 087 259	910 945	872 273	815 438
Bulgaria	234 300	21 200	127 600	109 200	114 800
Croatia	170 721	* 250 000	318 139	248 675	231 008
Cyprus	330 000	412 000	317 000	333 000	335 000
Czech Republic	66 000	35 000	13 000	5 000	11 000
France (a)	* 3 500 000	2 338 910	1 887 260	2 065 814	2 452 204
Germany (a)	1 898 000	2 112 000	1 898 000	1 822 000	2 021 000
Greece (a)	836 967	1 000 000	730 000	* 600 000	587 000
Hungary (a)	26 000	15 940	19 766	20 000	3 000
Ireland, Republic of	* 700 000	* 600 000	* 400 000	* 300 000	* 300 000
Italy	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Latvia (a)	346 000	349 000	175 870	176 510	216 000
Macedonia	255 500	242 400	154 550	143 118	162 984
Poland (a)	1 581 299	1 499 901	1 326 928	1 399 000	1 500 000
Portugal	418 035	372 731	335 189	336 755	337 272
Romania	1 004 150	832 248	720 713	639 010	* 660 000
Slovakia (a)	151 000	152 000	131 000	87 000	88 000
Spain	14 535 422	11 955 753	8 181 315	6 990 249	* 7 100 000
Switzerland	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Turkey	3 241 177	7 338 127	4 369 589	2 850 601	991 415
United Kingdom	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
EU35 Total	33 958 415	34 214 469	25 616 864	22 598 205	21 526 121

Notes

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

(a) Including anhydrite

Gypsum

**Exports of Gypsum**

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Crude	89 128	26 402	20 694	19 124	23 007
Calcined	121 473	89 906	78 839	55 927	76 548
Belgium					
Crude	54 953	89 626	113 954	92 533	101 382
Calcined	3 039	3 817	1 823	177 046	(a)* —
Bulgaria					
Crude and calcined	1 439	787	11 965	3 641	10 953
Croatia					
Crude and calcined	4 808	4 738	3 119	10	66
Cyprus					
Crude and calcined	203 109	279 902	236 427	250 034	248 284
Czech Republic					
Crude	105 394	60 018	10 195	48 605	103 363
Calcined	5 973	7 881	6 430	5 235	3 448
Denmark					
Crude	197 920	141 124	8 440	2 211	63
Calcined	1 740	4 173	1 455	8 299	6 725
Estonia					
Crude and calcined	2 182	4 154	22	87	105
France					
Crude	414 428	381 841	267 315	259 192	239 815
Calcined	356 716	338 682	282 254	286 799	310 248
Germany					
Crude	423 152	447 140	393 691	430 977	516 024
Calcined	1 703 212	1 775 467	1 290 391	1 558 288	1 333 953
Greece					
Crude	47 694	21 258	49 037	38 459	95 699
Calcined	1 842	937	580	337	621
Hungary					
Crude and calcined	8 626	19 259	22 019	17 367	44 845
Ireland, Republic of					
Crude	1 058	1 094	10 425	23 355	5 390
Calcined	37 914	32 821	28 491	15 129	21 274
Italy					
Crude	17 748	24 525	17 907	12 035	9 614
Calcined	27 123	24 496	21 848	18 484	39 465
Latvia					
Crude and calcined	74 627	63 732	37 352	38 596	47 016
Lithuania					
Crude and calcined	1 804	2 436	423	237	250
Luxembourg					
Crude and calcined	1 232	553	661	1 596	1 919
Macedonia					
Crude and calcined	10 167	12 496	12 604	30 273	32 328

Gypsum

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Netherlands					
Crude	49 394	37 991	* 39 600	15 773	42 080
Calcined	17 744	15 228	5 550	1 656	2 714
Norway					
Crude and calcined	51 212	69 976	68 140	36 298	85 598
Poland					
Crude and calcined	56 003	58 644	40 512	47 654	121 689
Portugal					
Crude and calcined	8 362	22 707	12 394	20 016	47 278
Romania					
Crude and calcined	13 507	13 069	17 966	17 672	15 576
Serbia					
Crude and calcined	38	2 230	617	16	40
Slovenia					
Crude and calcined	36 039	8 575	6 575	205	220
Spain					
Crude	3 335 273	3 458 773	2 187 816	2 678 208	3 367 083
Calcined	274 781	228 060	182 982	165 424	156 461
Sweden					
Crude and calcined	12 694	11 525	9 358	8 155	3 865
Switzerland					
Crude and calcined	2 754	5 207	2 454	8 536	8 606
Turkey					
Crude	43 195	37 899	145 717	134 905	111 864
Calcined	544 954	838 314	643 873	682 898	708 056
United Kingdom					
Crude	1 248	1 493	1 978	3 330	3 428
Calcined	57 988	48 340	32 551	24 552	25 504

Notes

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

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

Imports of Gypsum

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Crude	14 651	10 118	12 098	22 432	84 817
Calcined	97 281	67 712	73 588	70 850	72 696
Belgium					
Crude	1 118 068	1 231 279	702 104	616 338	683 957
Calcined	490 242	505 792	424 465	396 873	507 725
Bulgaria					
Crude	8 240	12 223	15 830	6 239	11 399
Calcined	58 880	70 280	42 086	44 383	37 323
Croatia					
Crude	48 775	38 120	14 470	1 608	11 421
Calcined	37 034	34 224	22 154	14 076	12 709
Cyprus					
Crude and calcined	12 932	15 045	10 807	9 292	6 461
Czech Republic					
Crude	70 972	76 119	83 819	55 087	57 962
Calcined	45 167	75 278	53 954	33 763	34 353
Denmark					
Crude	388 662	379 094	106 304	53 577	97 219
Calcined	53 647	52 087	58 675	42 290	21 696
Estonia					
Crude	26 567	19 239	381	11 295	11 922
Calcined	19 769	18 823	8 760	8 950	8 343

Gypsum

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Finland					
Crude	423 355	408 509	146 141	235 787	182 082
Calcined	8 588	6 598	5 664	7 281	11 020
France					
Crude	580 341	492 072	354 086	313 842	249 933
Calcined	111 325	116 678	101 840	85 849	76 800
Germany					
Crude	80 449	54 216	28 315	29 132	26 182
Calcined	93 275	76 992	75 319	82 341	80 574
Greece					
Crude and calcined	4 747	3 093	2 097	1 759	1 400
Hungary					
Crude	5 424	6 713	3 248	5 362	5 198
Calcined	60 615	49 220	43 128	12 413	18 039
Iceland					
Crude	13 279	10 533	4 724	2 579	892
Calcined	1 409	1 606	642	192	181
Ireland, Republic of					
Crude	7 487	1 412	15 931	20 637	2 731
Calcined	22 676	24 877	13 930	5 410	9 318
Italy					
Crude	6 814	21 411	5 754	3 618	2 205
Calcined	21 088	19 621	16 645	16 267	16 976
Latvia					
Crude and calcined	13 670	5 818	1 920	24 696	36 282
Lithuania					
Crude	78 185	90 320	28 754	54 772	63 632
Calcined	47 112	43 127	19 974	17 377	18 503
Luxembourg					
Crude	849	51 416	57 828	50 104	69 918
Calcined	31 700	25 257	15 793	10 715	18 459
Malta					
Crude and calcined	6 309	5 505	2 305	10 446	11 428
Montenegro					
Crude and calcined	1 969	1 747	3 356	653	730
Netherlands					
Crude	402 915	285 990	249 206	203 179	307 971
Calcined	430 550	415 623	418 481	368 523	611 145
Norway					
Crude	128 045	121 440	76 435	84 359	94 824
Calcined	328 003	298 394	234 564	270 721	275 909
Poland					
Crude	296 289	170 571	157 974	129 336	134 230
Calcined	238 858	215 458	82 586	53 613	47 261
Portugal					
Crude	75 794	89 627	81 971	73 822	40 153
Calcined	320 174	298 708	244 809	270 783	237 788
Romania					
Crude	66 231	90 194	45 891	40 703	63 658
Calcined	77 900	100 471	62 134	47 912	50 866
Serbia					
Crude	182	21	13 273	14 601	22 546
Calcined	16 779	18 733	11 684	9 276	9 962
Slovakia					
Crude	88 083	111 188	53 104	74 512	80 966
Calcined	29 894	47 044	52 703	16 732	17 194
Slovenia					
Crude	38 588	24 660	5 565	942	785
Calcined	7 936	8 622	9 432	7 615	6 218
Spain					
Crude	53 028	43 171	25 963	20 776	13 185
Calcined	14 129	33 825	7 349	6 015	5 787
Sweden					
Crude	244 986	178 364	94 656	256 696	324 584
Calcined	146 638	154 201	158 842	73 865	58 751

Imports continued

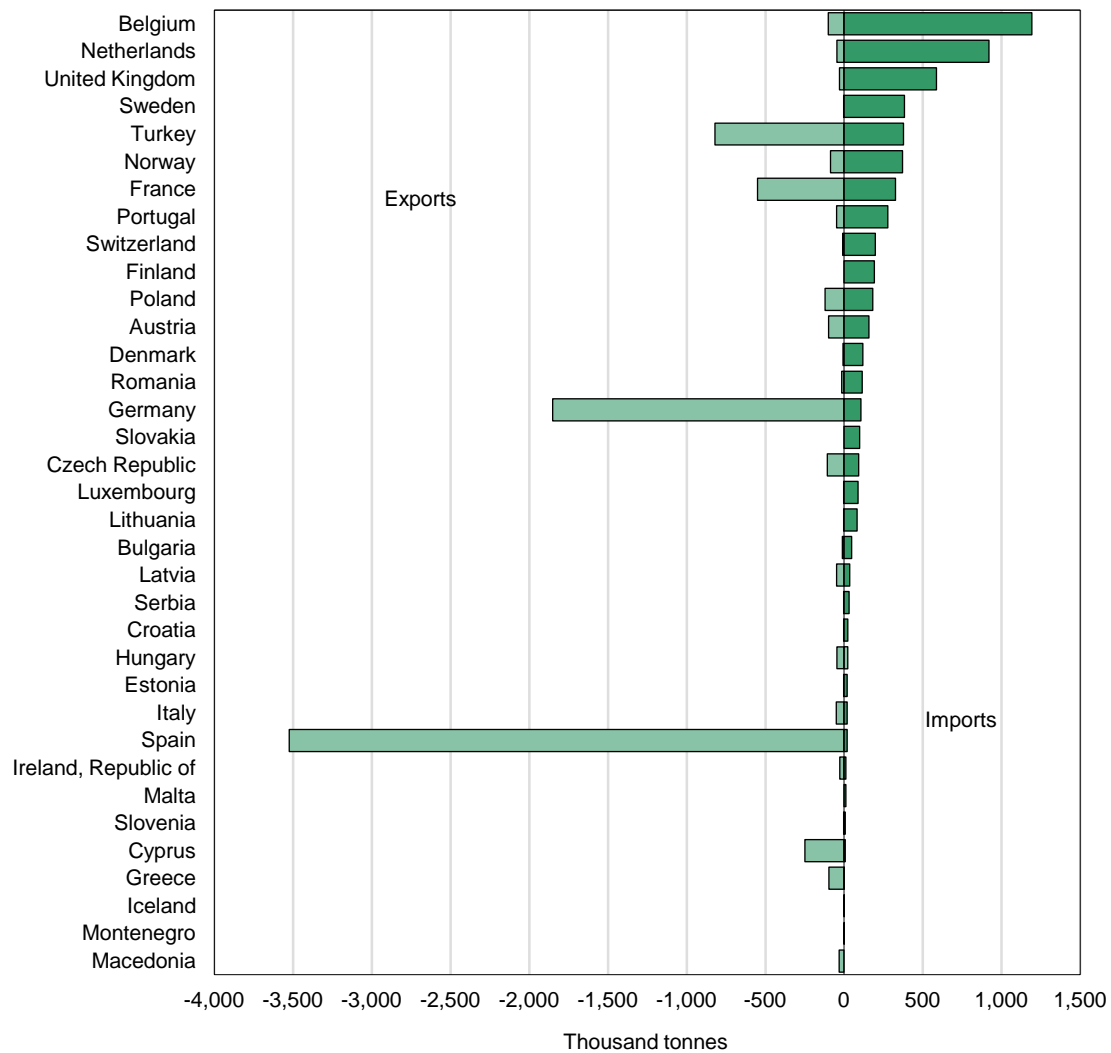
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Country	2007	2008	2009	2010	2011
Switzerland					
Crude	93 365	101 731	101 228	112 555	94 474
Calcined	95 000	97 296	87 350	100 958	104 574
Turkey					
Crude and calcined	180 159	167 572	202 523	234 495	377 085
United Kingdom					
Crude	196 613	140 783	396 138	216 605	539 327
Calcined	52 678	88 766	60 337	54 209	46 526

Notes

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

Gypsum - EU35 trade in 2011



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.

Chile was the world's largest producer in 2011, with 58 per cent of the total world output. The second largest was Japan (33 per cent), followed by USA (five per cent), China (two per cent) and Turkmenistan (one per cent).

Exports of iodine

kilograms

Country	2007	2008	2009	2010	2011
Austria	324	139	339	564	413
Belgium	2 633 100	3 560 100	2 582 300	3 989 500	3 584 800
Bulgaria	51 610	200	300	600	600
Czech Republic	1 000	300	500	1 000	2 000
Denmark	100	1	1 500	3	100
France	91 100	100 500	101 909	47 103	89 357
Germany	183 200	97 400	112 690	62 331	124 705
Ireland, Republic of	1 944	1 536	1 982	—	2 589
Italy	2 613	2 119	86 917	24 722	20 112
Lithuania	20	3	—	4	8 900
Luxembourg	...	...	...	83 600	40 900
Netherlands	517 872	773 705	386 170	124 797	152 295
Norway	7 200	—	250	—	13 250
Poland	1 300	5 100	5 100	16 400	4 000
Spain	7 689	46 873	15 376	14 704	7 909
Sweden	48	122	300	700	900
Switzerland	1 205	1 605	97	349	239
Turkey	11 098	1 212	31 908	2 960	4 877
United Kingdom	368 785	174 965	121 370	393 005	234 182

Imports of iodine

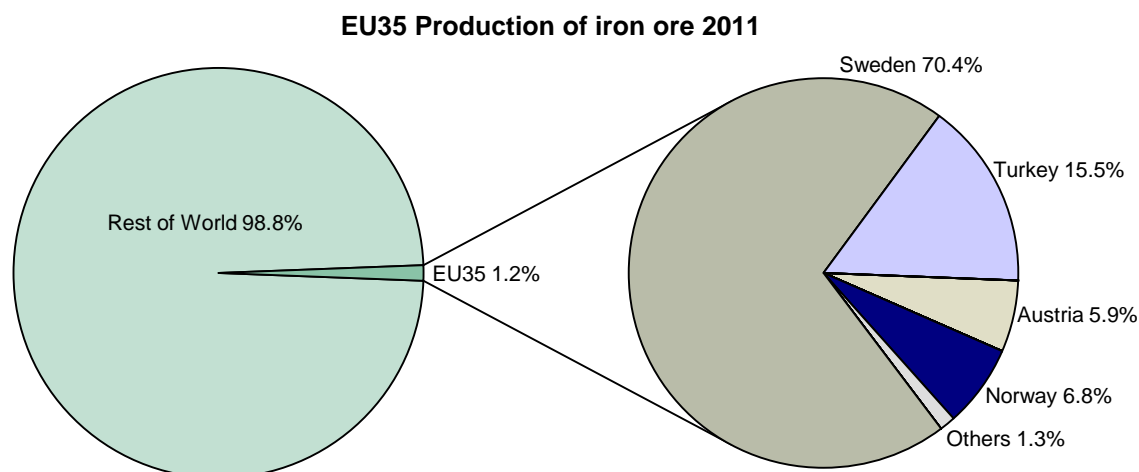
kilograms

Country	2007	2008	2009	2010	2011
Austria	145 500	139 700	204 100	213 000	198 500
Belgium	2 774 500	3 586 200	3 189 200	4 087 700	3 814 500
Bulgaria	6 500	2 900	2 900	2 300	2 800
Czech Republic	32 300	25 200	31 900	35 100	36 500
Denmark	1 973 090	1 122 329	8 674	10 168	5 500
Estonia	12	18	196	13 157	200
Finland	3 400	3 400	2 901	1 443	1 174
France	1 687 900	1 875 400	1 189 569	1 530 436	1 492 427
Germany	1 102 600	1 150 600	1 168 886	1 422 575	1 576 165
Greece	500	600	800	1 300	200
Hungary	4 400	7 900	2 100	2 700	6 100
Iceland	12 001	12 029	9	9	24
Ireland, Republic of	10 318	21 515	24 358	13 311	22 220
Italy	1 231 082	1 343 977	1 256 232	1 080 203	1 375 868
Lithuania	470	383	4 510	17 732	20 100
Netherlands	1 870	800 817	23 376	16 031	1 352 421
Norway	1 785 526	1 668 339	1 270 662	1 708 338	1 663 657
Poland	18 800	24 100	10 600	21 700	11 600
Portugal	900	100	8 000	8 700	8 600
Romania	2 636	1 395	330	300	500
Serbia	12 982	4 494	4 030	8 137	10 876
Spain	582 029	541 706	512 821	342 914	522 768
Sweden	5 000	600	400	1 100	1 800
Switzerland	18 136	7 260	7 156	10 238	10 839
Turkey	8 594	9 498	12 133	3 218	6 641
United Kingdom	1 225 368	1 106 864	1 075 328	1 253 806	1 426 239

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.

China was the world's largest producer in 2011, with 44 per cent of the total world output. The second largest was Australia (16 per cent), followed by Brazil (15 per cent), India (six per cent) and Russia (three per cent).



Production of iron ore

Country	2007	2008	2009	2010	2011
Austria (a)	2 152 825	2 032 671	2 002 131	2 068 853	2 206 910
Germany (b)(c)	421 711	455 100	363 699	390 353	489 091
Norway	630 000	746 000	896 000	3 266 000	2 532 100
Romania	8 157	—	—	—	—
Slovakia	570 000	392 000	—	—	—
Sweden	24 714 000	23 888 000	17 677 000	25 292 000	26 113 000
Turkey	4 549 556	3 990 110	4 169 972	5 378 455	5 754 426
United Kingdom (d)	* 300	145	—	—	—
EU35 Total	33 046 549	31 504 026	25 108 802	36 395 661	37 095 527

Notes

- (a) Including micaceous iron oxide
- (b) Including manganiferous iron ore
- (c) Used as aggregate in the construction industry
- (d) The Florence mine near Egremont, Cumbria, closed in 2008. The mine produced high-grade hematite for foundry uses, mineral specimens and jewellery. The mine was also a tourist attraction

EU35 Production of iron ore 2007 - 11



Exports of iron ore

tonnes

Country	2007	2008	2009	2010	2011
Belgium	41 440	85 701	178 567	366 331	455 069
Finland					
Burnt pyrites	146 844	396 064	244 225	391 549	* 1 200 000
France	69 376	57 720	124 492	(a) 19 349	129 374
Germany					
Iron ore	17 770	34 495	4 497	22 373	54 555
Burnt pyrites	7 491	12 700	10 865	7 994	15 999
Italy (a)	8 570	1 699	354	8 779	6 742
Netherlands	2 710 120	(a) 85 698	(a) 239 932	121 426	208 469
Norway	739 731	615 296	775 828	1 803 242	2 435 415
Poland	27	10 198	14 893	16 130	4 400
Romania					
Iron ore	21	42 606	172 372	1 718	2 728
Burnt pyrites	24 068	15 567	12 694	1 359	1 690
Slovakia	4 353	53 434	5 923	62 568	22 481
Spain (a)	75 567	62 147	17 348	9 079	165 589
Sweden	19 033 842	17 617 162	16 104 129	20 726 152	21 115 203
Turkey	(a) 3 947	4 163	(a) 3 361	(a) 200 600	(a) 296 550
United Kingdom (a)	5 491	7 821	32 579	5 256	179 709

Note

(a) Including burnt pyrites

Imports of iron ore

tonnes

Country	2007	2008	2009	2010	2011
Austria (a)	9 061 870	7 996 632	6 095 762	9 309 860	9 966 338
Belgium					
Iron ore	9 583 765	12 329 299	3 254 834	7 567 453	7 425 015
Burnt pyrites	51	431	23 648	45	...
Bulgaria					
Iron ore	919 785	208 559	3 110	7 991	1 265
Burnt pyrites	464 580	188 923	15 831	16 653	16 679
Croatia (a)	14 444	17 177	12 057	20 147	2 123
Czech Republic (a)	6 578 116	6 799 756	4 803 009	5 902 011	7 363 983

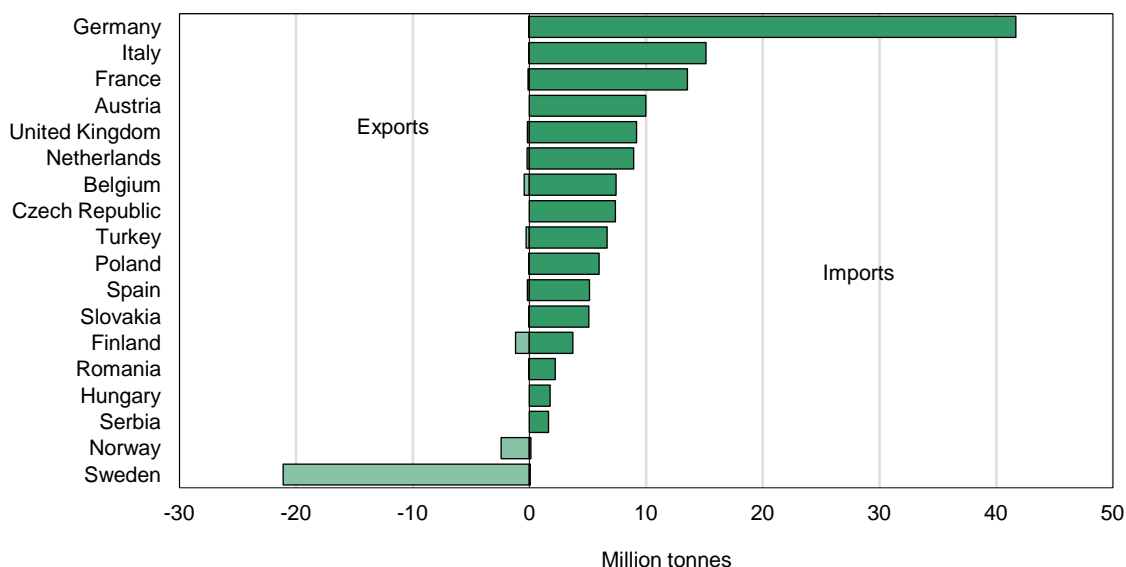
Imports continued

Country	2007	2008	2009	2010	2011
Denmark					
Iron ore	72 805	111 604	69 990	53 896	118 928
Burnt pyrites	9 231	—	—	15 457	8
Finland	3 156 096	3 121 303	2 204 018	(a) 3 052 609	3 728 222
France					
Iron ore	20 065 037	18 220 893	10 014 901	15 259 049	13 531 471
Burnt pyrites	2 107	4 948	5 375	11 603	11 452
Germany	(a) 46 194 946	44 339 072	(a) 28 819 242	(a) 43 085 386	(a) 41 682 798
Hungary	968 033	616 684	876 109	1 985 510	1 780 865
Iceland	43 452	(a) 44 167	34 404	36 318	42 846
Ireland, Republic of (a)	4 594	13 478	18 151	592	150
Italy	17 013 076	16 313 184	8 159 741	12 092 237	15 134 122
Latvia	46 109	44 607	2 393	1	(a) 7 422
Netherlands	12 693 210	10 831 769	(a) 4 585 303	(a) 8 810 077	(a) 8 921 399
Norway	179 727	151 503	134 167	148 809	127 127
Poland	8 746 836	(a) 7 784 529	(a) 3 752 010	6 494 457	5 977 338
Romania					
Iron ore	6 259 705	5 003 811	1 597 033	2 848 921	2 186 674
Burnt pyrites	2 824	17 770	11 572	29 544	35 551
Serbia	2 093 317	2 092 208	1 397 755	1 860 593	1 624 795
Slovakia	5 853 880	4 802 516	4 499 385	5 796 813	5 103 229
Spain (a)	6 117 047	6 479 890	4 237 845	5 874 304	5 143 562
Sweden					
Iron ore	69 911	71 441	41 087	55 078	51 334
Burnt pyrites	26	—	2 919	16 743	24 561
Switzerland					
Iron ore	7 800	6 145	1 445	5 382	12 537
Burnt pyrites	7 826	12 559	15 045	15 171	14 916
Turkey					
Iron ore	6 925 163	5 004 508	7 757 561	7 220 977	6 644 310
Burnt pyrites	...	17 092	14 097	—	—
United Kingdom					
Iron ore	17 435 472	15 282 786	9 185 919	10 597 085	9 175 254
Burnt pyrites	131 230	693	232	—	598

Notes

(a) Including burnt pyrites

Iron ore - EU35 trade in 2011



Production of pig iron

tonnes

Country	2007	2008	2009	2010	2011
Austria	5 908 000	5 795 000	4 353 000	5 621 000	5 815 000
Belgium	6 577 000	6 977 000	3 087 000	4 688 000	4 700 000
Bulgaria	1 069 000	441 000	—	—	—
Czech Republic	5 287 000	4 737 000	3 483 000	3 987 000	4 137 000
Finland	2 915 130	2 942 946	2 042 000	2 564 000	2 600 000
France	12 425 703	11 371 879	8 104 318	10 136 827	9 697 535
Germany	31 700 000	29 105 000	20 104 000	28 560 000	27 943 000
Hungary	1 393 655	1 288 758	1 050 000	1 325 000	1 315 000
Italy	11 100 000	10 400 000	5 670 000	8 555 000	9 824 000
Netherlands	6 412 000	6 130 000	4 655 000	5 799 000	5 943 000
Norway	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Poland	5 804 418	4 933 781	2 983 500	3 637 995	3 974 930
Romania	3 923 244	2 957 715	1 576 679	1 723 418	1 595 000
Serbia	1 485 000	1 582 000	964 607	1 158 628	1 197 693
Slovakia	4 012 000	3 529 000	3 019 000	3 649 000	3 346 000
Spain	3 976 000	3 784 000	2 920 000	3 572 000	3 540 000
Sweden	3 947 000	3 708 000	1 966 000	3 447 000	3 240 000
Turkey	6 235 537	6 697 372	6 913 325	16 362 115	17 235 903
United Kingdom	10 959 800	10 136 800	7 671 100	7 233 000	6 625 000
EU35 Total	125 230 487	116 617 251	80 662 529	112 118 983	112 829 061

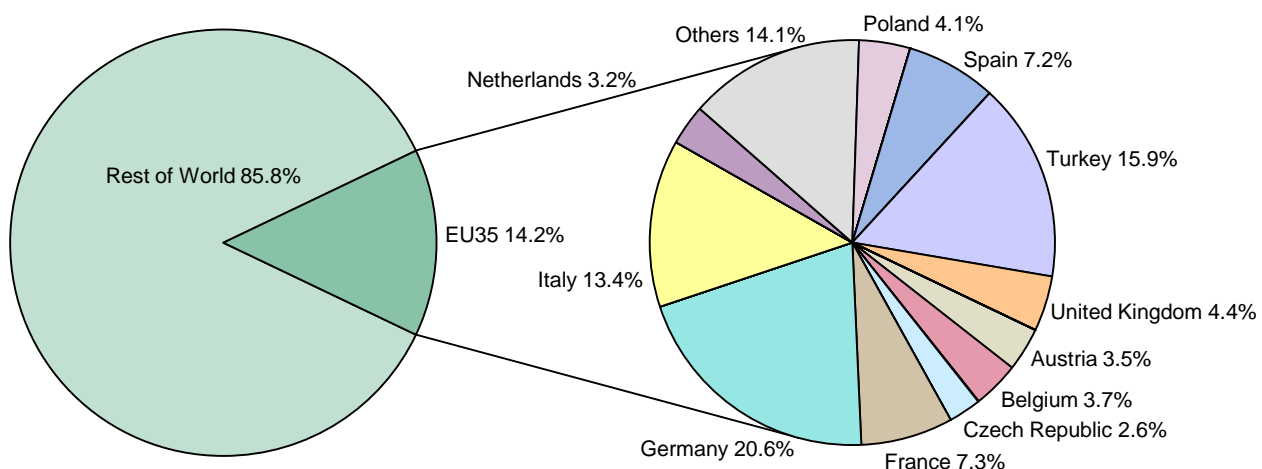
Note

(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 world total steel production.

The majority of industrialised countries produce steel. China was the world's largest producer in 2011, with 45 per cent of the total world output. The second largest was Japan (seven per cent), followed by USA (six per cent), India and South Korea (five per cent each).

EU35 Production of crude steel 2011

Production of crude steel

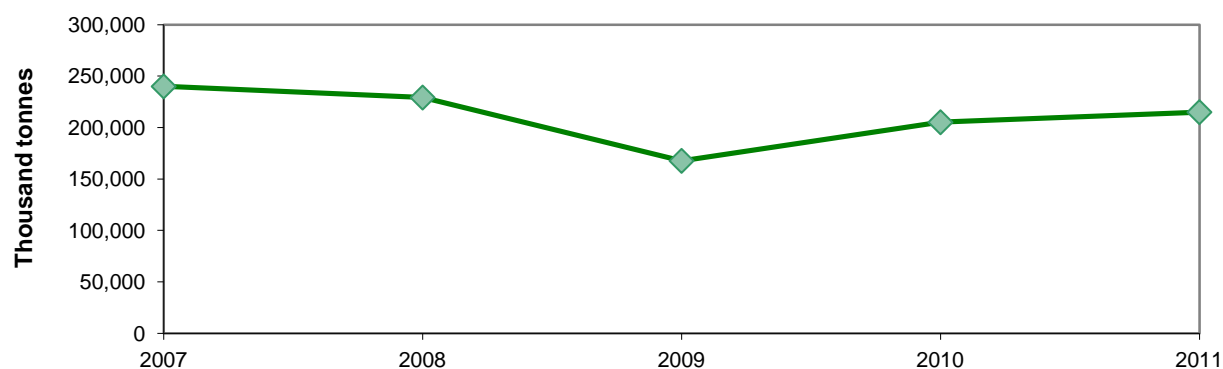
tonnes

Country	2007	2008	2009	2010	2011
Austria	7 577 000	7 594 000	5 662 000	7 206 000	7 474 000
Belgium	10 692 000	10 673 000	5 635 000	7 973 000	8 026 000
Bulgaria	1 909 000	1 330 000	726 000	744 000	835 000
Croatia	76 252	121 759	54 266	103 429	95 440
Czech Republic	7 059 000	6 387 000	4 594 000	5 180 000	5 583 000
Finland	4 430 726	4 416 792	3 066 000	4 030 000	3 985 000
France	19 249 862	17 879 161	12 840 108	15 413 577	15 780 639
Germany	48 550 000	45 832 000	32 670 000	43 830 000	44 284 000
Greece	2 554 000	2 477 000	2 000 000	1 821 000	1 934 000
Hungary	2 227 000	2 097 000	1 403 000	1 678 000	1 733 000
Italy	31 506 000	30 590 000	19 848 000	25 750 000	28 735 000
Latvia	696 000	635 000	692 000	655 000	568 000
Luxembourg	2 858 000	2 582 000	2 141 000	2 548 000	2 521 000
Macedonia	370 317	344 866	299 332	317 057	348 576
Montenegro	173 849	201 623	90 404	48 272	61 164
Netherlands	7 368 000	6 853 000	5 193 000	6 651 000	6 937 000
Norway	708 000	560 000	595 000	520 000	620 000
Poland	10 630 716	9 727 325	7 128 482	7 993 025	8 776 458
Portugal	1 847 000	1 630 000	1 587 000	1 351 000	1 351 000
Romania	6 269 486	5 035 164	2 772 679	3 720 775	3 835 000
Serbia	1 478 000	1 662 000	1 054 336	1 254 386	1 304 954
Slovakia	5 082 000	4 489 000	3 747 000	4 580 000	4 236 000
Slovenia	638 000	642 000	430 000	606 000	648 000
Spain	18 998 000	18 640 000	14 358 000	16 343 000	15 504 000
Sweden	5 672 900	5 197 600	2 803 700	4 845 600	4 867 000
Switzerland	1 264 000	1 312 000	934 000	1 320 000	* 1 400 000
Turkey	25 760 889	26 809 050	25 303 741	29 029 789	34 107 000
United Kingdom	14 392 300	13 520 500	10 074 500	9 708 000	9 478 000
EU35 Total	240 038 297	229 238 840	167 702 548	205 219 910	215 028 231

Notes

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

EU35 Production of crude steel 2007 - 11



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.

China was the largest producer in 2011, followed by South Africa, India, Russia and Kazakhstan.

Production of ferro-alloys

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Ferro-molybdenum	5 000	4 500	4 000	4 000	4 000
Ferro-nickel	3 000	2 000	2 500	2 500	2 500
Ferro-vanadium	6 500	6 300	6 200	8 000	8 000
Bulgaria					
Ferro-silicon	* 10 000	6 000	* 3 000	* —	* —
Czech Republic					
Ferro-vanadium	* 1 700	* 2 800	* 1 900	* 3 400	* 4 600
Finland					
Ferro-chrome	241 760	233 550	123 310	238 000	231 000
France					
Ferro-manganese	* 144 000	* 47 000	* 46 000	* 138 000	* 140 000
Ferro-silico-manganese	* 65 400	* 60 200	* 54 100	* 54 000	* 54 000
Ferro-silicon	* 31 000	* 30 000	* 18 300	* 27 000	* 27 000
Silicon metal	* 120 000	* 118 000	* 80 000	* 112 000	* 112 000
Germany					
Ferro-chrome	22 030	26 960	13 667	* 20 000	* 20 000
Other ferro-alloys	* 5 000	* 5 000	—	—	* —
Silicon metal	29 379	29 092	27 620	30 105	30 134
Greece					
Ferro-nickel	93 300	83 200	42 400	69 600	94 000
Iceland					
Ferro-silicon	114 886	107 882	112 992	114 230	120 076
Italy					
Ferro-manganese	* 30 000	* 30 000	* 20 000	* 25 000	* 25 000
Ferro-silico-manganese	87 000	87 000	56 000	108 000	145 000
Macedonia					
Ferro-nickel	15 321	15 026	12 000	14 413	17 292
Ferro-silicon	78 892	97 605	7 657	30 044	56 167
Norway					
Ferro-manganese	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	293 699	273 485	* 250 000	* 250 000	* 250 000
Ferro-silicon	170 024	185 344	233 974	* 235 000	170 102
Other ferro-alloys	* 62 000	* 60 000	* 60 000	* 60 000	* 60 000
Silicon metal	* 140 000	* 155 000	* 150 000	* 150 000	* 150 000
Poland					
Ferro-manganese	2 093	8 475	1 736	800	...
Ferro-silico-manganese	15 590	25 061	72	100	...
Ferro-silicon	58 538	56 031	9 673	53 206	72 668
Other ferro-alloys	6 255	2 948	4 190	200	332
Romania					
Ferro-chrome	—	6 179	15 377	14 353	* 10 000
Ferro-silico-manganese	26 868	9 979	—	20 605	* 30 000
Slovakia					
Ferro-silico-manganese	71 587	59 940	32 000	34 960	25 023
Ferro-silicon	8 583	10 844	4 600	26 419	31 845
Other ferro-alloys	74 065	61 194	22 250	38 860	23 497
Slovenia					
Ferro-silicon	* 6 000	* —	* —	* —	* —
Spain					
Ferro-manganese	* 155 000	* 163 000	* 68 000	* 152 000	* 152 000
Ferro-silico-manganese	* 153 000	* 160 000	* 67 000	* 150 000	* 150 000
Ferro-silicon	* 71 000	* 74 000	* 44 000	* 64 400	* 64 000
Silicon metal	* 32 000	* 33 000	* 23 000	* 32 500	* 33 000

Production continued						tonnes
Country	2007	2008	2009	2010	2011	
Sweden						
Ferro-chrome	124 400	118 700	31 100	64 400	80 140	
Ferro-silicon	4 300	—	—	—	—	
Turkey						
Ferro-chrome	69 730	75 840	41 028	* 60 000	* 60 000	
Ferro-silico-chrome	6 624	6 094	2 903	* 3 000	* 3 000	
EU35 Total	2 785 524	2 667 229	1 822 549	2 539 095	2 586 376	

Exports of iron, steel and ferro-alloys

Exports of iron, steel and ferro-alloys						tonnes
Country	2007	2008	2009	2010	2011	
Austria						
Pig iron	6 958	7 539	2 354	4 476	3	
Ferro-alloys	9 100	7 541	5 953	2 618	1 690	
Silicon metal	5 166	5 412	4 795	7 403	597	
Ingots, blooms, billets	286 765	284 063	187 410	190 343	293 647	
Scrap	1 279 775	1 351 725	1 067 926	1 034 398	950 865	
Belgium						
Pig iron	275 388	283 034	160 120	254 854	255 067	
Sponge and powder	36 997	20 732	14 655	35 395	10 029	
Ferro-chrome	54 201	38 927	20 403	25 965	23 538	
Ferro-silico-chrome	15 141	12 463	15 645	5 849	1 549	
Ferro-manganese	16 124	24 024	9 915	26 544	41 161	
Ferro-silico-manganese	52 431	40 777	31 374	48 652	47 762	
Ferro-molybdenum	20 153	17 759	16 396	19 593	20 134	
Ferro-silicon	68 383	54 905	47 214	23 071	33 676	
Other ferro-alloys	10 391	12 686	2 988	4 137	16 124	
Silicon metal	5 869	6 673	5 954	8 522	8 396	
Ingots, blooms, billets	1 008 252	908 563	279 680	487 535	484 510	
Scrap	2 957 464	3 250 800	3 245 159	3 754 403	3 533 560	
Bulgaria						
Pig iron	62 032	23 553	1 420	1 141	854	
Ferro-silico-manganese	6 845	288	...	19	1	
Ferro-silicon	4 972	2 076	2 890	980	248	
Other ferro-alloys	2 072	550	9 867	2 115	312	
Silicon metal	2 374	46	1	3	7	
Ingots, blooms, billets	135 710	85 466	54 115	30 327	24 822	
Scrap	677 347	740 414	510 997	949 000	850 898	
Croatia						
Ferro-alloys	520	3 286	3 397	6 526	5 254	
Ingots, blooms, billets	34	3 486	7	2 495	30 004	
Scrap	427 540	357 487	302 085	357 015	517 438	
Cyprus						
Scrap	63 662	72 106	80 349	96 654	138 529	
Czech Republic						
Pig iron	31 182	30 457	24 041	65 473	45 677	
Ferro-silicon	8 254	8 780	4 285	9 806	7 354	
Ferro-vanadium	1 685	2 830	1 868	3 440	4 603	
Other ferro-alloys	8 704	13 897	12 274	23 873	6 732	
Silicon metal	1 118	1 375	783	847	584	
Ingots, blooms, billets	587 296	500 423	222 780	320 821	356 146	
Scrap	1 678 565	1 792 889	1 442 865	1 814 398	2 011 915	
Denmark						
Ferro-silicon	62	48	55	77	164	
Other ferro-alloys	257	491	291	54	43	
Ingots, blooms, billets	12 820	16 775	13 287	19 143	21 926	
Scrap	1 263 987	1 372 424	1 335 754	1 596 485	1 554 808	

Iron, steel and ferro-alloys

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Estonia					
Pig iron	(a)* 1 360	1	(a)* 1	97	234
Ferro-alloys	159	153	100	124	142
Ingots, blooms, billets	5 985	1 392	3 159	1 203	1 511
Scrap	572 216	650 099	384 299	512 766	563 124
Finland					
Pig iron	0	14 070	11 317	2 564	373
Ferro-chrome	100 022	37 709	61 319	126 713	97 322
Other ferro-alloys	99	110	308	560	211
Ingots, blooms, billets	185 229	281 325	253 440	263 863	219 129
Scrap	253 732	308 047	276 010	229 680	341 937
France					
Pig iron	89 768	88 462	151 699	52 439	53 736
Sponge and powder	17 948	14 698	5 261	18 917	20 857
Ferro-chrome	1 217	2 098	2 217	2 447	2 035
Ferro-silico-magnesium	16 377	28 255	10 787	39 115	34 196
Ferro-manganese	8 049	2 457	2 882	2 200	2 554
Ferro-silico-manganese	41 110	42 260	41 324	51 330	54 023
Ferro-molybdenum	481	374	379	548	802
Ferro-nickel	225	46	10 496	6 104	1 042
Ferro-niobium	948	984	261	505	220
Ferro-silicon	50 334	73 824	51 676	77 144	84 879
Ferro-titanium and ferro-silico-titanium	2 292	1 493	844	1 869	1 985
Other ferro-alloys	32 186	447	134	76	102
Silicon metal	138	292	231	261	298
Ingots, blooms, billets	2 650 976	2 830 986	1 814 051	1 858 111	2 088 739
Scrap	6 210 854	6 028 712	5 402 426	6 665 264	6 240 254
Germany					
Pig iron	145 453	153 917	86 491	180 542	183 310
Sponge and powder	147 303	95 846	28 183	56 763	43 160
Ferro-chrome	39 892	36 856	27 831	54 956	45 048
Ferro-silico-magnesium	24 051	22 191	9 323	12 517	11 077
Ferro-manganese	14 733	11 802	9 043	12 387	22 690
Ferro-silico-manganese	8 684	10 354	4 436	3 377	17 756
Ferro-molybdenum	3 636	3 858	3 229	3 174	4 440
Ferro-nickel	2 116	1 036	1 725	7 869	5 775
Ferro-niobium	1 149	1 057	321	538	237
Ferro-phosphorus	839	477	475	1 452	1 233
Ferro-silicon	51 343	63 858	63 214	95 683	81 464
Ferro-titanium and ferro-silico-titanium	6 011	4 237	1 662	4 180	5 350
Ferro-tungsten and ferro-silico-tungsten	480	460	339	640	402
Ferro-vanadium	558	413	755	659	391
Ingots, blooms, billets	2 496 951	2 047 223	1 655 376	2 150 091	2 150 120
Scrap	7 770 479	8 268 662	7 275 257	9 175 802	9 859 197
Greece					
Ferro-alloys	340	3 671	377	999	294
Ingots, blooms, billets	121 989	162 819	102 721	143 318	139 537
Scrap	34 584	36 018	34 840	66 989	59 592
Hungary					
Ferro-alloys	829	47	...	104	207
Ingots, blooms, billets	36 548	90 282	4 315	9 274	44 796
Scrap	567 923	691 805	636 805	1 132 142	1 272 473
Iceland					
Ferro-silicon	117 230	105 868	112 993	114 231	120 076
Other ferro-alloys	6	1 729	4 595	5 603	6
Silicon metal	15	—	200	—	—
Scrap	68 014	60 287	38 075	37 328	38 954
Ireland, Republic of					
Ingots, blooms, billets	419	924	547	262	9 240
Scrap	478 562	485 387	428 416	484 871	609 985

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Italy					
Pig iron	50 789	36 137	61 761	38 026	22 412
Sponge and powder	1 097	615	452	729	1 534
Ferro-chrome	5 411	4 593	2 066	5 020	5 639
Ferro-silico-magnesium	2 061	1 681	673	733	783
Ferro-manganese	14 562	12 890	7 457	9 186	9 761
Ferro-silico-manganese	7 048	6 882	4 322	4 316	3 890
Ferro-molybdenum	68	277	1 266	149	41
Ferro-nickel	239	123	418	176	215
Ferro-silicon	7 113	7 094	6 395	6 329	8 642
Other ferro-alloys	457	1 559	2 013	163	195
Silicon metal	4 576	6 007	3 200	3 284	4 293
Ingots, blooms, billets	983 369	964 245	570 380	909 562	908 493
Scrap	240 735	387 528	325 026	422 731	317 626
Latvia					
Ferro-chrome	...	...	204	4 051	9 502
Ferro-manganese	...	1 343	402	794	1 132
Ferro-silico-manganese	...	...	...	6 247	16 563
Ferro-silicon	...	...	1	11 029	23 706
Ingots, blooms, billets	4 371	4 010	2 323	2 442	5 045
Scrap	245 958	388 456	213 766	396 794	563 192
Lithuania					
Ferro-alloys	15 437	11 188	3 093	104	141
Scrap	661 349	659 646	422 436	595 721	664 225
Luxembourg					
Ingots, blooms, billets	81 112	49 843	16 793	10 953	37 393
Scrap	311 114	504 067	114 924	165 832	133 133
Macedonia					
Ferro-silico-manganese	48 258	...	10 938	31 344	46 254
Ferro-nickel	71 189	...	(a)* 91 800	67 384	77 107
Ferro-silicon	30 139	(a)* 257 000	16 621	19 491	52 684
Scrap	124 200	104 326	59 407	71 830	83 784
Malta					
Scrap	28 083	25 379	27 775	29 498	38 408
Montenegro					
Ingots, blooms, billets	18 136	32 159	15 423	18 775	6 866
Scrap	12 380	10 229	14 442	28 570	55 204
Netherlands					
Pig iron	134 324	170 468	89 714	111 189	133 861
Ferro-chrome	94 048	103 036	62 439	170 489	242 310
Ferro-silico-chrome	25	15	* 300	448	14 816
Ferro-manganese	42 958	65 203	33 193	35 353	66 053
Ferro-silico-manganese	21 432	17 571	37 593	66 085	62 737
Ferro-molybdenum	5 579	3 150	1 894	6 462	6 544
Ferro-nickel	42 331	5 086	3 564	6 264	7 514
Ferro-niobium	1 439	1 736	925	1 175	2 070
Ferro-silicon	106 764	71 762	87 348	219 244	238 469
Ferro-titanium and ferro-silico-titanium	3 706	3 046	2 730	10 510	13 620
Ferro-tungsten and ferro-silico-tungsten	2 010	1 168	476	727	1 155
Ferro-vanadium	7 263	2 274	926	1 909	2 343
Other ferro-alloys	7 719	22 603	* 33 000	50 903	16 535
Silicon metal	15 237	15 547	46 466	69 896	65 055
Ingots, blooms, billets	1 111 462	806 999	157 861	849 018	1 553 519
Scrap	4 500 919	4 523 660	* 2 835 000	5 541 773	5 692 223
Norway					
Pig iron (a)	* 119 800	* 110 100	* 75 000	* 118 000	* 110 000
Ferro-chrome	(a)* 100	(a)* 80	—	(a)* 30	(a)* 65
Ferro-manganese (a)	* 329 400	* 354 000	* 203 000	* 332 000	* 379 000
Ferro-silico-manganese	280 028	257 804	200 279	245 095	246 808
Ferro-silicon	155 198	209 669	115 682	214 643	246 711
Other ferro-alloys	61 606	57 777	16 247	2 479	47
Silicon metal	144 607	155 385	109 254	162 649	154 191
Ingots, blooms, billets	176 755	62 625	106 505	64 474	92 475
Scrap	290 644	269 370	228 138	337 675	289 943

Iron, steel and ferro-alloys

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Poland					
Pig iron	7 481	5 189	10 543	17 340	21 122
Sponge and powder	2 350	3 838	4 448	5 293	16 519
Ferro-manganese and ferro-silico-manganese	20 412	37 978	21 640	10 113	2 284
Ferro-silicon	46 923	52 976	16 401	59 845	76 121
Other ferro-alloys	2 221	2 932	2 655	7 452	8 135
Ingots, blooms, billets	1 575 099	1 580 450	664 035	490 919	846 908
Scrap	1 199 620	1 368 952	978 862	1 334 069	1 838 699
Portugal					
Pig iron	4 196	1	51	18 502	21 606
Ferro-alloys	206	546	255	1 746	2 392
Ingots, blooms, billets	138 692	164 425	136 284	172 983	119 353
Scrap	378 043	172 133	216 037	303 013	239 842
Romania					
Sponge and powder	17 832	18 697	18 807	24 454	29 320
Ferro-chrome	8	161	3 543	14 234	10 996
Ferro-manganese	222	701	1 801	45	26
Ferro-silico-manganese	33 529	5 793	8 120	19 087	34 387
Ferro-niobium	418	123	72	53	66
Ferro-silicon	396	444	727	24	0
Other ferro-alloys	136	197	130	223	101
Ingots, blooms, billets	183 551	220 136	51 644	196 302	267 543
Scrap	1 963 213	1 985 977	2 565 443	2 519 237	2 348 565
Serbia					
Pig iron	58 744	81 427	71 778	70 090	46 629
Ingots, blooms, billets	849	632	46 587	20 547	111 080
Scrap	441 098	345 813	328 763	416 713	357 778
Slovakia					
Pig iron	10 588	20 676	29 779	70 588	26 976
Ferro-chrome	9 530	10 830	4 029	10 029	11 189
Ferro-manganese	49 723	48 747	19 204	14 032	10 229
Ferro-silico-manganese	62 898	55 873	37 792	35 764	28 660
Ferro-molybdenum	49	222	119	78	2 416
Ferro-silicon	16 437	21 352	15 823	19 656	31 004
Other ferro-alloys	4 025	4 384	1 129	3 390	3 226
Ingots, blooms, billets	508 620	241 811	255 917	631 135	221 697
Scrap	404 401	525 777	318 290	556 952	651 135
Slovenia					
Pig iron	14 942	24 639	4 412	10 507	21 823
Ferro-chrome	3 263	3 419	3 648	5 320	4 757
Ferro-manganese	1 366	1 090	1 056	1 769	1 317
Ferro-silico-manganese	2 939	1 243	1 938	5 959	4 268
Ferro-silicon	15 277	20 826	6 628	7 280	13 397
Ferro-titanium and ferro-silico-titanium	722	521	50	124	123
Other ferro-alloys	1 595	6 243	3 297	4 214	4 554
Silicon metal	1 875	1 149	3 049	5 568	4 753
Ingots, blooms, billets	31 849	21 006	12 296	17 320	39 269
Scrap	245 869	199 016	284 958	343 716	409 401
Spain					
Pig iron	12 491	9 747	4 772	2 998	7 023
Sponge and powder	6 404	4 763	2 566	2 658	3 233
Ferro-chrome	2 461	4 768	367	1 025	1 181
Ferro-manganese	71 345	65 330	29 403	52 296	37 866
Ferro-silico-manganese	33 636	34 307	25 859	58 097	65 469
Ferro-molybdenum	70	45	242	359	7
Ferro-silicon	18 323	9 562	5 939	12 854	12 952
Other ferro-alloys	6 044	393	208	2 191	2 326
Silicon metal	16 175	16 008	5 571	18 463	21 864
Ingots, blooms, billets	91 085	310 671	261 758	337 566	194 482
Scrap	162 371	214 913	302 465	277 401	431 394

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Sweden					
Pig iron	152 911	62 588	141 261	146 027	133 387
Sponge and powder	26 666	19 844	296 251	12 335	313 081
Ferro-chrome	2 247	3 534	35 886	51 010	2 752
Ferro-silico-magnesium	1 260	...	50	17	5
Ferro-manganese and ferro-silico-manganese	3 859	3 620	2 423	3 517	3 581
Ferro-molybdenum	304	301	193	340	375
Ferro-phosphorus	1 128	1 370	364	582	448
Ferro-silicon	2 892	2 616	3 004	6 905	6 903
Ferro-vanadium	135	112	250	50	57
Other ferro-alloys	216	895	280	481	660
Silicon metal	1 474	2 458	968	2 337	1 274
Ingots, blooms, billets	134 568	102 086	58 631	261 273	235 814
Scrap	1 069 335	1 449 311	1 439 126	1 352 399	1 484 197
Switzerland					
Sponge and powder	2 537	2 126	1 564	2 191	981
Ferro-alloys	653	642	943	1 191	1 299
Ingots, blooms, billets	104 433	65 257	48 349	66 642	85 201
Scrap	585 342	636 462	565 415	623 910	630 837
Turkey					
Pig iron	—	10 372	10 616	8 028	9 357
Sponge and powder	—	520	219	1 326	7 581
Ferro-chrome	63 209	39 324	75 236	74 570	76 255
Ferro-manganese	3 318	2 466	1 614	4 410	3 536
Ferro-silico-manganese	216	677	2 247	2 362	2 172
Ferro-silicon	3 117	1 464	1 280	4 619	5 807
Other ferro-alloys	472	1 075	1 059	507	4 886
Ingots, blooms, billets	1 660 642	2 501 135	2 431 211	3 716 586	2 459 563
Scrap	29 237	77 654	66 673	94 498	105 914
United Kingdom					
Pig iron	15 892	2 523	27 765	4 339	2 074
Sponge and powder	4 969	2 794	3 103	2 938	3 775
Ferro-alloys	41 841	40 986	28 899	45 314	43 918
Ferro-chrome	...	...	...	...	1 853
Ferro-chrome and ferro-silico-chrome	2 973	1 385	1 524	2 425	...
Ferro-silico-chrome	35	9	50	22	364
Ferro-silico-magnesium	917	976	458	366	338
Ferro-manganese	1 136	1 210	963	8 361	819
Ferro-silico-manganese	7	49	65	52	132
Ferro-molybdenum	11 823	11 283	7 634	11 248	12 948
Ferro-nickel	52	81	18	15	49
Ferro-niobium	49	58	52	224	179
Ferro-phosphorus	33	45	312	667	766
Ferro-silicon	2 314	3 250	3 338	2 958	6 594
Ferro-titanium and ferro-silico-titanium	19 515	18 557	13 098	15 197	17 662
Ferro-tungsten and ferro-silico-tungsten	8	31	1	4	3
Ferro-vanadium	96	79	64	24	52
Other ferro-alloys	2 917	3 981	1 373	3 774	2 158
Silicon metal	11 325	15 132	7 753	2 901	3 662
Ingots, blooms, billets	3 514 850	3 348 794	2 118 701	1 137 160	668 885
Scrap	6 013 907	6 616 708	6 007 656	7 507 853	7 744 411

Notes

(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	2007	2008	2009	2010	2011
Austria					
Pig iron	69 614	43 663	30 084	25 355	30 367
Sponge and powder	31 775	56 471	13 980	13 537	18 585
Ferro-chrome	49 977	47 748	20 400	29 355	38 422
Ferro-silico-magnesium	1 746	2 021	1 843	3 681	4 956
Ferro-manganese	38 857	36 491	18 962	17 840	21 671
Ferro-silico-manganese	30 340	22 322	17 927	22 976	19 931
Ferro-molybdenum	1 370	1 552	801	742	1 402
Ferro-niobium	956	1 125	665	1 061	1 191
Ferro-phosphorus	1 692	2 011	1 095	1 232	2 497
Ferro-silicon	26 180	27 850	12 825	27 063	33 709
Ferro-titanium and ferro-silico-titanium	793	879	388	471	630
Ferro-tungsten and ferro-silico-tungsten	796	1 277	208	552	715
Other ferro-alloys	193	350	33	166	1 038
Silicon metal	16 581	15 601	7 288	11 497	10 180
Ingots, blooms, billets	208 910	191 426	46 762	159 527	186 929
Scrap	1 371 393	1 629 170	1 196 327	991 574	1 016 301
Belgium					
Pig iron	551 990	547 962	281 872	331 652	320 083
Sponge and powder	33 504	22 005	19 389	39 503	54 212
Ferro-chrome	452 116	378 017	185 381	263 715	248 006
Ferro-silico-chrome	17 149	15 483	—	1 950	10 437
Ferro-silico-magnesium	11 673	9 505	4 655	9 031	10 494
Ferro-manganese	62 712	83 610	21 327	48 471	69 017
Ferro-silico-manganese	101 380	63 577	36 931	72 195	77 001
Ferro-molybdenum	5 405	2 339	2 215	2 160	3 261
Ferro-nickel	90 808	89 430	46 248	48 017	64 242
Ferro-niobium	2 675	1 530	1 089	1 890	1 598
Ferro-phosphorus	2 116	10 421	3 124	2 612	1 459
Ferro-silicon	146 267	118 585	62 888	92 785	105 445
Ferro-titanium and ferro-silico-titanium	3 522	5 572	2 161	2 926	2 377
Other ferro-alloys	528	494	8 184	443	238
Silicon metal	17 236	20 015	18 995	23 566	21 688
Ingots, blooms, billets	2 711 671	2 536 024	1 966 055	2 554 975	2 916 336
Scrap	4 279 076	4 214 915	3 678 867	4 726 992	4 634 651
Bulgaria					
Pig iron	26 932	27 941	6 736	14 781	17 521
Sponge and powder	31 306	1 282	14 572	317	294
Ferro-chrome	916	656	182	356	578
Ferro-manganese	7 981	4 206	3 137	3 137	6 280
Ferro-silico-manganese	3 336	4 325	3 479	4 291	6 324
Ferro-silicon	2 977	3 331	1 152	2 520	3 246
Other ferro-alloys	2 390	1 906	1 033	1 060	4 811
Ingots, blooms, billets	462 348	567 381	306 020	258 743	411 534
Scrap	295 555	237 055	202 276	269 483	230 401
Croatia					
Pig iron	17 011	15 031	8 420	10 343	14 072
Ferro-alloys	3 027	4 790	2 239	4 051	2 490
Ingots, blooms, billets	20 953	20 077	19 396	6 514	1 943
Scrap	29 553	19 400	10 628	30 395	44 335
Czech Republic					
Pig iron	108 715	111 872	47 666	54 625	76 416
Sponge and powder	20 580	24 791	10 006	15 391	24 059
Ferro-chrome	34 123	26 043	14 715	16 962	10 933
Ferro-silico-magnesium	6 297	5 778	3 192	3 784	3 706
Ferro-manganese	35 500	33 704	23 630	26 204	25 281
Ferro-silico-manganese	52 153	48 962	34 418	40 732	41 411
Ferro-molybdenum	2 025	2 049	949	1 868	2 401
Ferro-silicon	41 482	37 230	23 936	31 908	33 418
Ferro-vanadium	440	578	299	482	472
Other ferro-alloys	1 697	1 644	836	1 303	1 518
Silicon metal	6 584	5 826	4 408	5 805	5 809
Ingots, blooms, billets	445 181	525 598	220 524	651 182	322 206
Scrap	521 779	502 256	377 942	410 647	472 576

Imports continued						tonnes
Country	2007	2008	2009	2010	2011	
Denmark						
Pig iron	18 349	14 064	10 299	10 263	17 316	
Sponge and powder	61 079	3 602	1 742	3 229	3 586	
Ferro-silico-magnesium	1 795	1 465	348	177	35	
Ferro-silicon	1 887	1 702	569	2 864	3 328	
Other ferro-alloys	595	1 080	217	250	192	
Ingots, blooms, billets	780 837	672 439	328 893	538 503	609 342	
Scrap	213 776	392 453	269 841	337 192	242 848	
Estonia						
Ferro-alloys	1 240	1 114	305	656	602	
Scrap	53 155	37 774	9 267	8 434	12 230	
Finland						
Pig iron	53 901	42 681	18 097	36 120	31 235	
Sponge and powder	880 575	942 664	493 087	872 476	1 871	
Ferro-chrome	9 650	11 182	5 094	7 055	8 274	
Ferro-silico-magnesium	3 989	3 768	1 337	4 838	4 997	
Ferro-manganese	18 138	15 709	5 985	10 595	11 784	
Ferro-silico-manganese	34 994	34 139	20 642	30 204	30 169	
Ferro-molybdenum	1 892	1 730	584	1 316	1 717	
Ferro-nickel	54 106	50 294	17 098	25 746	40 962	
Ferro-niobium	570	757	318	629	849	
Ferro-phosphorus	560	380	285	543	499	
Ferro-silicon	31 814	29 740	21 437	31 395	30 207	
Ferro-titanium and ferro-silico-titanium	1 707	1 857	710	1 043	1 843	
Other ferro-alloys	311	425	91	235	193	
Silicon metal	1 318	1 638	548	1 390	1 281	
Ingots, blooms, billets	7 649	11 114	30 206	18 268	17 119	
Scrap	687 887	596 792	467 642	754 398	710 558	
France						
Pig iron	195 466	202 077	115 722	139 186	160 336	
Sponge and powder	147 662	89 809	26 695	52 795	84 787	
Ferro-chrome	106 513	111 584	71 570	111 080	99 240	
Ferro-silico-chrome	8	69	20	50	50	
Ferro-silico-magnesium	26 899	26 786	12 067	17 244	16 137	
Ferro-manganese	63 487	69 464	33 948	44 405	43 245	
Ferro-silico-manganese	45 827	54 004	34 758	35 405	44 217	
Ferro-molybdenum	5 650	5 637	3 263	3 720	4 857	
Ferro-nickel	6 373	5 887	12 709	7 724	16 270	
Ferro-niobium	2 785	3 266	1 183	2 195	2 225	
Ferro-phosphorus	2 528	2 698	1 670	2 656	2 227	
Ferro-silicon	52 945	61 740	30 913	51 906	65 306	
Ferro-titanium and ferro-silico-titanium	10 009	8 293	2 647	5 457	5 756	
Ferro-tungsten and ferro-silico-tungsten	597	666	247	343	378	
Ferro-vanadium	1 432	1 575	819	1 065	1 113	
Silicon metal	19 659	23 885	15 243	19 135	19 373	
Ingots, blooms, billets	1 998 943	1 747 005	1 113 710	1 807 094	2 047 778	
Scrap	3 197 843	3 241 199	2 407 619	2 450 993	2 682 258	
Germany						
Pig iron	655 022	713 470	402 132	421 287	589 302	
Sponge and powder	249 673	90 069	294 393	500 970	326 097	
Ferro-chrome	484 276	544 619	305 008	454 005	447 242	
Ferro-silico-chrome	14 426	12 886	8 648	29 047	18 334	
Ferro-silico-magnesium	25 758	23 645	12 238	14 754	22 190	
Ferro-manganese	217 428	209 083	122 063	203 200	232 613	
Ferro-silico-manganese	210 703	156 484	111 008	185 067	208 913	
Ferro-molybdenum	18 423	17 434	12 484	16 375	18 760	
Ferro-nickel	169 677	177 851	127 087	192 394	155 881	
Ferro-niobium	6 176	6 269	4 047	5 923	6 579	
Ferro-phosphorus	6 519	4 801	1 332	6 067	5 137	
Ferro-silicon	274 783	215 374	146 127	272 466	298 352	
Ferro-titanium and ferro-silico-titanium	15 339	13 824	5 461	8 754	9 818	
Ferro-tungsten and ferro-silico-tungsten	1 512	2 182	1 366	787	977	
Ferro-vanadium	5 711	5 333	3 421	5 034	5 305	
Silicon metal	190 933	225 185	183 516	255 977	241 565	
Ingots, blooms, billets	3 095 162	2 970 042	1 171 865	1 611 091	2 401 066	
Scrap	5 920 061	5 675 167	3 865 110	5 305 194	6 658 407	

Iron, steel and ferro-alloys

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Greece					
Pig iron	10 461	9 185	9 107	4 427	9 127
Sponge and powder	6 741	7 709	9 685	5 772	3 302
Ferro-chrome	1 016	1 146	916	693	1 217
Ferro-manganese	2 654	1 753	1 216	837	271
Ferro-silico-manganese	38 321	24 943	8 023	18 515	12 695
Ferro-silicon	18 783	8 170	4 569	4 888	4 361
Other ferro-alloys	546	504	170	849	167
Silicon metal	1 383	2 312	906	1 426	1 746
Ingots, blooms, billets	250 572	171 231	159 350	28 092	71 878
Scrap	1 637 437	1 485 316	1 159 166	1 008 235	935 510
Hungary					
Pig iron	13 285	12 951	3 403	7 158	5 662
Sponge and powder	3 116	1 043	425	756	638
Ferro-silico-magnesium	1 132	12 753	15 503	554	269
Ferro-manganese	4 311	4 318	2 037	12 015	16 011
Ferro-silico-manganese	4 168	4 661	922	724	1 785
Ferro-silicon	5 907	5 232	3 100	3 630	3 999
Other ferro-alloys	403	640	277	460	572
Silicon metal	2 982	2 184	2 589	4 010	7 832
Ingots, blooms, billets	29 820	273 585	104 855	30 505	240 299
Scrap	87 369	146 494	34 357	56 974	68 566
Iceland					
Pig iron	502	1 128	1 333	1 148	841
Ferro-alloys	63	113	5 641	6 838	204
Silicon metal	466	1 614	237	4 366	3 204
Ingots, blooms, billets	4 352	1 361	1 528	633	965
Scrap	—	1 164	643	11 545	4 680
Ireland, Republic of					
Sponge and powder	557	997	955	989	1 176
Ferro-alloys	464	370	737	385	361
Ingots, blooms, billets	8 319	5 459	5 373	7 332	5 423
Scrap	4 179	4 206	4 388	4 030	3 310
Italy					
Pig iron	2 235 376	2 238 037	895 818	1 018 615	1 288 014
Sponge and powder	465 834	396 660	174 364	278 989	540 005
Ferro-chrome	419 392	389 002	296 813	390 374	414 410
Ferro-silico-magnesium	16 751	15 716	6 026	9 269	10 881
Ferro-manganese	108 976	96 771	46 537	71 406	86 512
Ferro-silico-manganese	229 755	186 135	119 670	158 540	176 855
Ferro-molybdenum	7 433	8 318	3 998	6 141	8 541
Ferro-nickel	91 651	104 198	78 383	98 168	116 806
Ferro-niobium	2 783	2 733	1 395	2 751	2 521
Ferro-phosphorus	721	488	550	631	414
Ferro-silicon	154 797	122 236	89 909	137 031	160 561
Ferro-titanium and ferro-silico-titanium	4 230	3 861	4 462	3 876	3 819
Ferro-tungsten and ferro-silico-tungsten	385	578	300	247	252
Ferro-vanadium	2 521	2 445	1 158	1 901	2 330
Other ferro-alloys	1	243	—	97	841
Silicon metal	57 854	57 493	27 402	48 392	53 131
Ingots, blooms, billets	5 991 974	5 311 325	2 655 726	3 681 439	3 662 856
Scrap	5 242 020	5 705 462	3 321 387	4 609 403	5 752 270
Latvia					
Pig iron	65 437	56 964	38 140	45 454	2 244
Sponge and powder	131	19	14 931	4 460	565
Ferro-chrome (a)	* 20	* 130	* 9 050	* 300	* 1 700
Ferro-manganese	3 021	10 334	2 345	4 090	1 480
Ferro-silico-manganese	14 947	23 477	14 722	18 898	17 085
Ferro-silicon	3 086	18 466	15 085	24 660	25 992
Other ferro-alloys	372	132	415	158	245
Silicon metal	656	467	783	1 553	981
Ingots, blooms, billets	158 649	146 505	226 967	206 428	402 711
Scrap	294 904	412 240	214 564	443 817	366 039

Imports continued						tonnes
Country	2007	2008	2009	2010	2011	
Lithuania						
Pig iron	1 660	1 218	415	315	142	
Ferro-chrome	9 705	9 634	2 842	32	35	
Ferro-silico-manganese	5 983	...	2	...	...
Other ferro-alloys	437	457	114	161	756	
Ingots, blooms, billets	6 011	9 661	1 229	4 270	5 384	
Scrap	64 661	64 462	29 805	35 270	71 858	
Luxembourg						
Ferro-manganese	3 275	5 478	1 132	910	1 317	
Ferro-silico-manganese	47 741	28 617	25 617	27 116	29 053	
Ferro-niobium	577	473	166	192	226	
Ferro-silicon	3 987	8 115	2 846	3 428	3 828	
Other ferro-alloys	841	1 309	582	906	1 179	
Ingots, blooms, billets	788 410	1 004 405	364 945	407 419	370 786	
Scrap	3 137 236	3 880 672	1 829 754	2 693 481	2 632 849	
Macedonia						
Pig iron	2 467	2 609	1 732	1 823	1 382	
Ferro-alloys	3 737	3 402	1 618	2 401	5 970	
Ingots, blooms, billets	501 134	482 294	157 566	145 509	97 889	
Scrap	310 410	255 543	7 375	292 049	318 612	
Montenegro						
Pig iron	2 040	17 864	13 954	322	1 150	
Ferro-silico-manganese	2 306	2 921	1 664	1 663	891	
Ferro-silicon	559	697	271	288	187	
Other ferro-alloys	629	422	127	297	566	
Scrap	138 421	138 502	54 801	19 950	27 396	
Netherlands						
Pig iron	158 199	292 867	122 185	98 575	213 530	
Sponge and powder	244 874	253 882	109 768	378 111	402 025	
Ferro-chrome	325 741	275 995	40 931	93 919	123 284	
Ferro-silico-chrome	674	1	1 394	2 838	525	
Ferro-manganese	105 789	96 135	39 045	86 504	89 805	
Ferro-silico-manganese	81 034	70 108	29 335	57 967	80 905	
Ferro-molybdenum	11 826	8 566	2 868	4 643	7 753	
Ferro-nickel	16 878	17 602	4 274	19 378	25 849	
Ferro-niobium	465	2 074	949	920	1 354	
Ferro-silicon	160 792	114 290	79 461	178 138	152 194	
Ferro-titanium and ferro-silico-titanium	10 730	6 781	1 860	11 922	13 484	
Ferro-tungsten and ferro-silico-tungsten	1 186	1 572	554	1 168	1 298	
Ferro-vanadium	4 132	2 042	519	2 014	1 890	
Other ferro-alloys	12 829	30 407	6 951	11 263	17 558	
Silicon metal	68 719	57 446	41 740	82 599	75 664	
Ingots, blooms, billets	269 481	283 834	110 561	536 157	1 335 875	
Scrap	1 669 159	1 842 597	* 1 135 000	1 988 278	2 188 452	
Norway						
Pig iron	11 335	11 198	10 639	1 498	10 709	
Ferro-chrome	1 303	929	1 162	1 311	1 534	
Ferro-manganese	10 639	7 448	6 608	5 303	5 254	
Ferro-silico-manganese	1 034	1 960	1 186	548	0	
Ferro-silicon	43 350	13 502	9 097	10 615	9 595	
Other ferro-alloys	3 681	2 471	926	1 665	2 090	
Silicon metal	39 961	40 878	29 810	49 349	53 897	
Ingots, blooms, billets	195 928	167 309	59 344	4 733	5 411	
Scrap	267 085	96 427	91 114	108 802	138 814	

Iron, steel and ferro-alloys

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Poland					
Pig iron	228 445	236 682	156 970	176 145	228 357
Sponge and powder	10 282	8 390	4 677	7 594	14 597
Ferro-chrome	14 113	13 713	6 064	7 785	8 042
Ferro-silico-magnesium	9 102	8 194	5 379	7 352	8 182
Ferro-manganese	42 352	31 876	32 935	30 721	45 192
Ferro-silico-manganese	79 942	47 964	71 585	56 882	65 816
Ferro-molybdenum	1 527	1 554	711	612	547
Ferro-phosphorus	1 492	1 386	675	917	1 253
Ferro-silicon	24 846	20 424	16 132	21 576	18 457
Other ferro-alloys	1 084	1 017	757	1 365	743
Silicon metal	13 946	11 652	11 839	16 219	17 091
Ingots, blooms, billets	679 404	584 305	157 799	119 466	370 144
Scrap	313 907	465 978	596 733	374 076	409 454
Portugal					
Pig iron	17 468	13 824	7 507	10 623	4 980
Sponge and powder	1 498	740	38 849	6 919	37 376
Ferro-chrome	1 050	1 093	245	810	683
Ferro-silico-magnesium	6 070	6 228	4 551	2 072	2 990
Ferro-manganese	1 281	908	762	856	722
Ferro-silico-manganese	9 835	10 063	9 921	3 820	4 836
Ferro-silicon	3 355	3 479	3 707	2 902	3 408
Other ferro-alloys	187	393	69	61	91
Ingots, blooms, billets	84 769	26 532	53 089	28 583	33 675
Scrap	1 075 517	1 128 391	887 110	672 856	616 063
Romania					
Pig iron	53 779	37 889	61 027	111 702	48 365
Sponge and powder	2 446	3 203	1 518	2 740	22 355
Ferro-chrome	2 838	3 423	984	1 500	2 856
Ferro-manganese	34 126	28 773	9 063	15 530	18 136
Ferro-silico-manganese	37 558	17 919	11 461	19 151	24 215
Ferro-silicon	21 156	13 190	4 998	9 859	9 602
Other ferro-alloys	3 191	2 412	1 508	2 210	2 699
Silicon metal	1 192	3 155	1 104	3 098	3 205
Ingots, blooms, billets	922 499	757 551	109 046	458 742	771 167
Scrap	15 771	17 886	4 204	5 501	8 416
Serbia					
Pig iron	4 244	2 235	523	2 739	1 257
Sponge and powder	108	5 154	122	217	187
Ferro-chrome	1 350	1 167	1 104	1 272	1 796
Ferro-manganese	11 635	12 329	8 571	9 524	9 270
Ferro-silico-manganese	134	78	6	440	2 431
Ferro-silicon	3 307	3 086	2 089	2 418	3 285
Other ferro-alloys	512	491	275	324	357
Ingots, blooms, billets	293 912	95 726	205 528	283 255	34 875
Scrap	8 252	49 261	15 178	12 403	35 192
Slovakia					
Pig iron	59 778	70 034	19 468	33 258	43 874
Sponge and powder	52 697	* 143 700	4 090	13 227	7 294
Ferro-chrome	9 818	7 539	2 635	6 829	6 684
Ferro-silico-magnesium	3 289	3 507	640	1 626	957
Ferro-manganese	20 410	19 503	16 912	13 202	16 391
Ferro-silico-manganese	977	2 776	2 720	1 776	4 904
Ferro-niobium	906	897	154	315	426
Ferro-silicon	26 142	23 747	14 970	15 250	12 660
Ferro-titanium and ferro-silico-titanium	355	367	315	535	435
Other ferro-alloys	230	1 534	792	485	1 150
Silicon metal	6 004	6 391	4 460	6 309	7 196
Ingots, blooms, billets	20 708	18 953	54 781	10 020	24 162
Scrap	257 815	217 558	164 985	224 868	146 065

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Slovenia					
Pig iron	102 973	68 153	24 031	29 120	25 327
Sponge and powder	1 420	1 311	1 053	1 225	1 630
Ferro-chrome	23 645	25 665	15 951	26 575	36 528
Ferro-silico-magnesium	2 052	3 418	1 682	2 388	2 375
Ferro-manganese	6 061	5 663	4 157	6 175	5 763
Ferro-silico-manganese	4 789	3 373	3 467	8 810	7 697
Ferro-molybdenum	569	540	410	717	885
Ferro-nickel	2 364	538	...	...	42
Ferro-silicon	14 017	24 651	11 335	13 114	15 739
Other ferro-alloys	2 862	1 984	899	1 687	1 883
Silicon metal	7 654	6 536	4 929	7 874	8 318
Ingots, blooms, billets	11 479	12 930	1 568	8 191	31 931
Scrap	363 362	367 968	281 950	495 432	561 713
Spain					
Pig iron	652 786	688 421	380 731	442 656	315 904
Sponge and powder	611 893	621 627	295 665	636 496	640 549
Ferro-chrome	1 123 216	203 518	113 275	164 125	152 254
Ferro-silico-magnesium	7 289	9 890	5 818	7 705	10 705
Ferro-manganese	24 599	17 126	13 357	19 930	15 256
Ferro-silico-manganese	48 205	74 962	50 683	39 895	36 803
Ferro-molybdenum	5 863	3 777	3 756	6 446	6 943
Ferro-nickel	75 625	68 355	43 936	47 389	43 284
Ferro-niobium	8 283	685	553	983	1 334
Ferro-phosphorus	2 554	1 488	193	1 425	1 816
Ferro-silicon	71 487	46 445	27 140	27 581	29 894
Ferro-titanium and ferro-silico-titanium	1 276	1 006	611	1 203	1 120
Ferro-vanadium	1 189	1 122	809	1 088	1 094
Other ferro-alloys	82	4 378	360	1 909	5 508
Silicon metal	3 640	8 856	9 523	8 446	11 801
Ingots, blooms, billets	1 733 247	1 587 605	1 007 820	1 269 577	1 061 766
Scrap	6 316 516	7 408 237	4 674 099	5 708 900	4 764 338
Sweden					
Pig iron	59 661	80 450	40 076	58 974	78 818
Sponge and powder	16 799	11 861	2 691	11 668	24 398
Ferro-chrome	125 057	114 712	78 244	90 630	74 988
Ferro-silico-chrome	3 104	3 873	1 215	1 805	4 133
Ferro-silico-magnesium	5 986	8 916	2 154	2 445	1 837
Ferro-manganese	75 409	68 246	27 869	60 577	57 927
Ferro-silico-manganese	17 085	10 677	5 754	9 099	11 586
Ferro-molybdenum	4 377	5 693	2 652	4 388	4 723
Ferro-nickel	9 162	6 803	3 286	7 995	10 119
Ferro-niobium	1 242	1 264	604	1 146	1 544
Ferro-phosphorus	1 331	386	430	415	632
Ferro-silicon	42 315	34 249	25 880	37 424	37 743
Ferro-titanium and ferro-silico-titanium	691	1 370	653	1 127	1 459
Ferro-vanadium	1 005	956	547	729	1 058
Other ferro-alloys	105	153	30	76	77
Silicon metal	6 756	7 631	4 404	6 818	5 375
Ingots, blooms, billets	137 032	264 782	119 549	193 605	203 669
Scrap	242 167	193 207	174 279	217 682	245 225
Switzerland					
Pig iron	28 095	28 630	12 256	16 812	17 969
Sponge and powder	9 685	8 873	5 931	6 668	4 812
Ferro-chrome	1 834	1 803	288	1 480	1 846
Ferro-manganese	9 922	11 696	8 003	11 566	9 721
Ferro-silico-manganese	5 992	5 011	1 595	3 767	4 948
Ferro-silicon	5 287	5 264	4 287	5 014	5 937
Ferro-vanadium	72	52	82	548	544
Other ferro-alloys	1 406	1 034	529	876	982
Silicon metal	1 508	1 255	1 256	1 385	1 661
Ingots, blooms, billets	50 301	29 911	9 188	18 026	61 349
Scrap	475 542	505 597	313 055	452 626	456 700

Iron, steel and ferro-alloys

Imports continued

tonnes

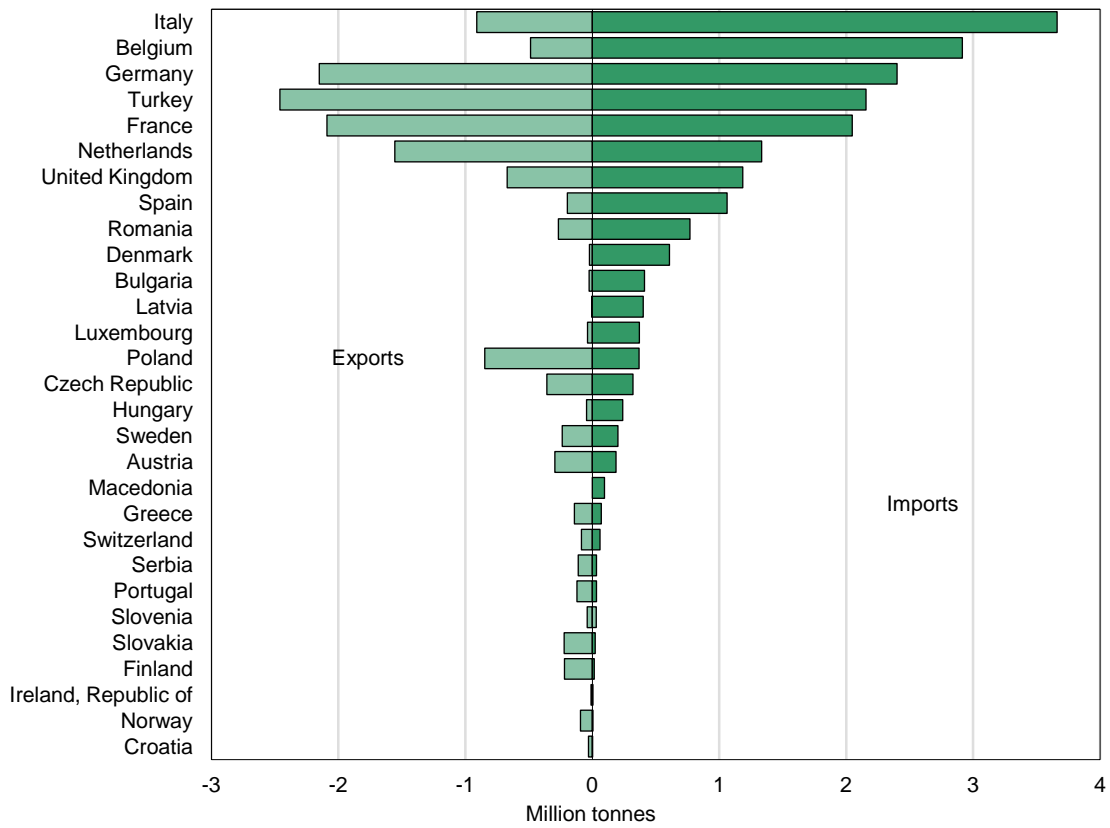
Country	2007	2008	2009	2010	2011
Turkey					
Pig iron	338 641	802 741	770 160	557 398	1 137 729
Sponge and powder	19 801	96 393	81 008	284 608	180 591
Ferro-chrome	11 138	11 321	2 787	8 159	9 061
Ferro-silico-magnesium	2 627	12 008	6 047	8 137	9 552
Ferro-manganese	56 619	73 319	46 760	61 866	59 326
Ferro-silico-manganese	236 039	195 623	191 605	229 451	243 637
Ferro-molybdenum	1 628	1 645	1 173	1 577	1 091
Ferro-niobium	446	609	338	147	424
Ferro-phosphorus	246	1 731	412	1 050	1 035
Ferro-silicon	100 758	90 477	60 164	87 552	107 151
Ferro-titanium and ferro-silico-titanium	616	634	651	167	480
Ferro-vanadium	472	529	323	261	591
Other ferro-alloys	7 015	337	13	16	205
Silicon metal	2 530	6 207	5 852	9 978	10 363
Ingots, blooms, billets	1 930 627	3 849 141	3 590 665	2 350 758	2 157 532
Scrap	13 335 810	17 414 983	15 372 727	19 138 460	21 452 724
United Kingdom					
Pig iron	89 863	61 657	19 703	41 959	69 095
Sponge and powder	11 766	27 003	17 483	97 745	147 870
Ferro-alloys	298 803	314 921	160 285	208 817	225 819
Ferro-chrome	46 975	79 692	34 884	58 398	70 191
Ferro-silico-chrome	1 242	128	26	9	362
Ferro-silico-magnesium	2 303	1 614	512	931	1 328
Ferro-manganese	100 694	96 461	49 700	46 985	39 159
Ferro-silico-manganese	56 036	52 966	37 114	49 280	51 928
Ferro-molybdenum	515	369	325	322	573
Ferro-nickel	14 960	16 520	2 777	6 284	13 888
Ferro-niobium	1 490	1 189	686	859	395
Ferro-phosphorus	2 070	2 473	282	836	1 134
Ferro-silicon	66 838	59 438	31 091	43 703	45 918
Ferro-titanium and ferro-silico-titanium	1 677	1 290	396	274	187
Ferro-tungsten and ferro-silico-tungsten	33	27	26	48	44
Ferro-vanadium	755	543	209	340	368
Other ferro-alloys	3 215	2 210	2 270	547	344
Silicon metal	25 787	56 807	68 109	99 651	101 005
Ingots, blooms, billets	849 803	679 019	212 829	714 541	1 185 242
Scrap	204 100	228 294	213 818	270 986	423 744

Notes

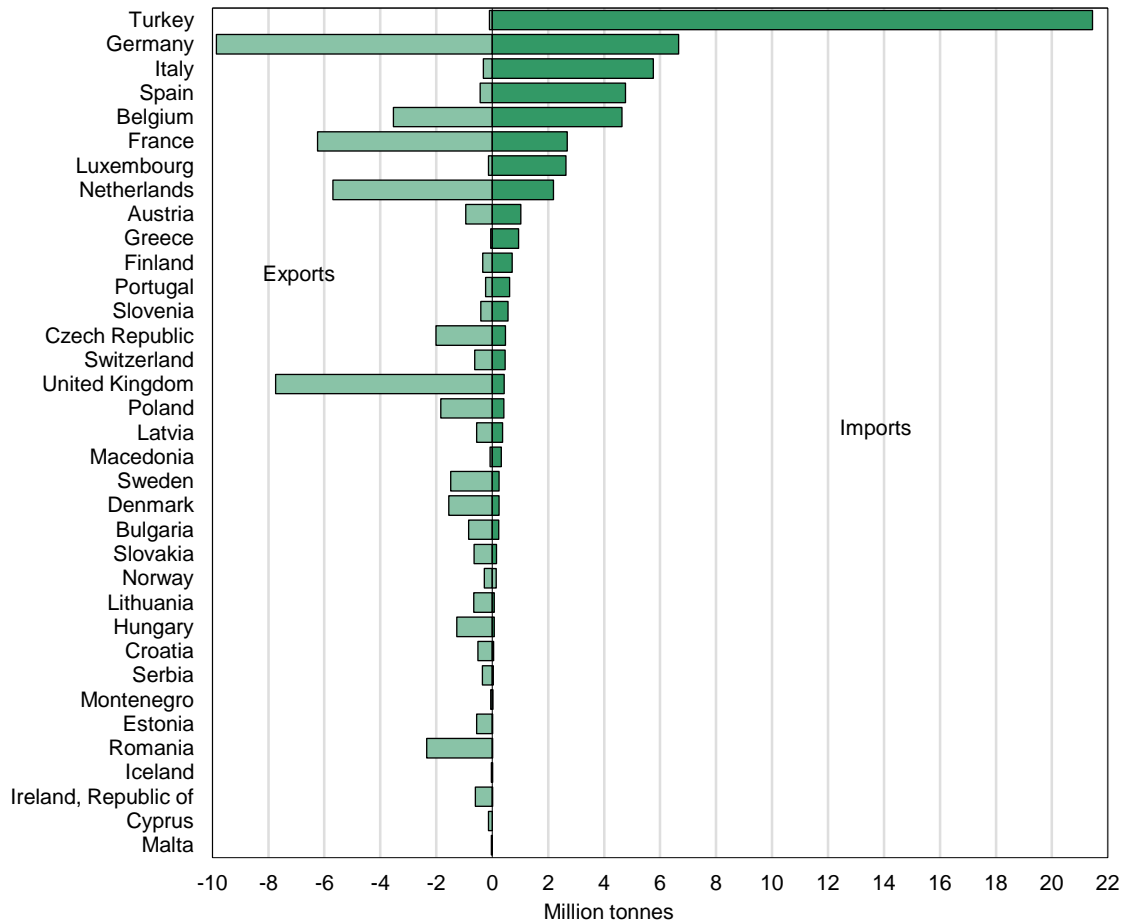
(1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel

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

Iron and steel ingots, blooms and billets - EU35 trade in 2011



Iron and steel scrap - EU35 trade in 2011

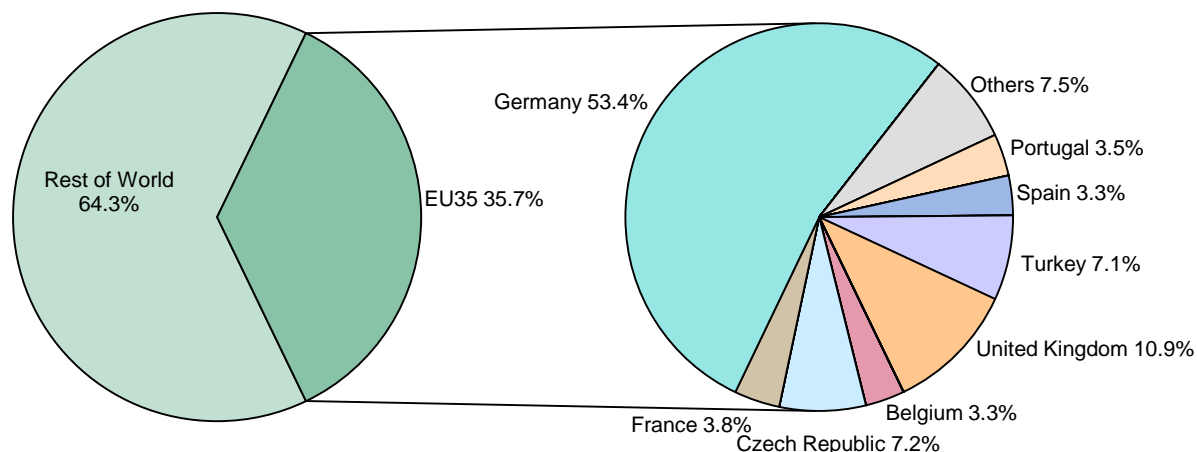


Kaolin

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.

USA was the world's largest producer in 2011, with 21 per cent of the total world output. The second largest was Germany (19 per cent), followed by China (12 per cent), Brazil (nine per cent) and Iran (six per cent).

EU35 Production of kaolin 2011



Production of kaolin

tonnes

Country	2007	2008	2009	2010	2011
Austria	16 929	16 460	18 148	18 914	18 897
Belgium	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Bulgaria	* 240 000	* 220 000	* 140 000	* 190 000	* 250 000
Czech Republic (a)	682 000	664 000	488 000	636 000	660 000
France	307 253	335 520	350 000	350 000	350 000
Germany (b)	3 842 514	3 622 159	4 513 753	4 578 097	4 898 516
Greece	30 000	4 360	—	3 493	2 056
Hungary	2 136	—	—	—	—
Italy	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Poland (c)	153 670	165 615	136 561	250 000	143 000
Portugal	183 598	217 434	274 925	273 890	322 041
Romania	7 576	3 060	651	326	—
Serbia	97 432	398 917	163 616	76 197	90 472
Slovakia	46 000	44 000	10 000	—	4 000
Spain (c)	489 428	355 739	270 298	310 993	302 580
Turkey	456 238	232 746	234 614	787 287	* 650 000
United Kingdom	1 671 426	1 355 365	1 059 848	* 1 000 000	* 1 000 000
EU35 Total	8 706 200	8 115 375	8 140 414	8 955 197	9 171 562

Notes

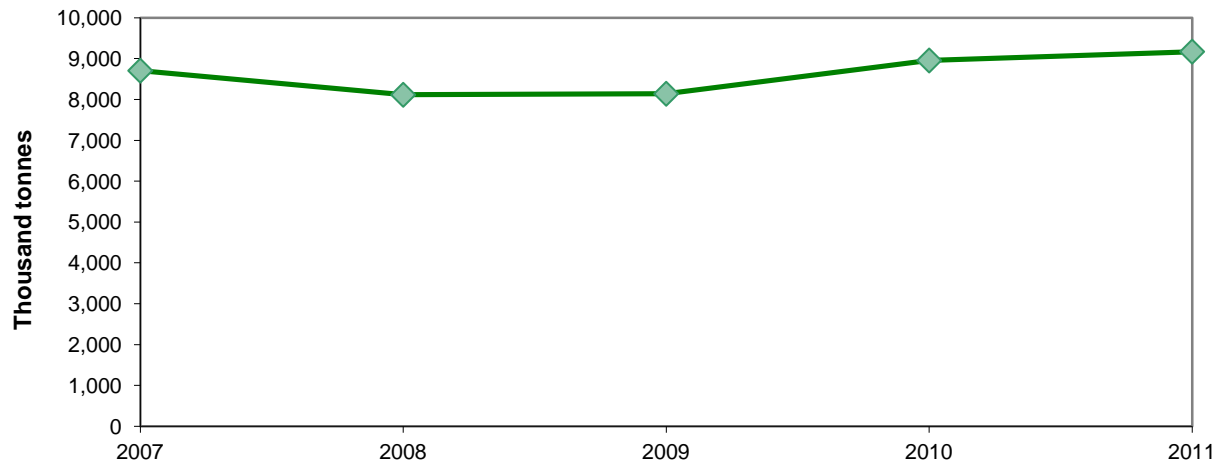
(1) In addition to the countries listed Denmark is believed to produce kaolin

(a) Beneficiated

(b) Washed and dried

(c) Washed

EU35 Production of kaolin 2007 - 11



Exports of kaolin

tonnes

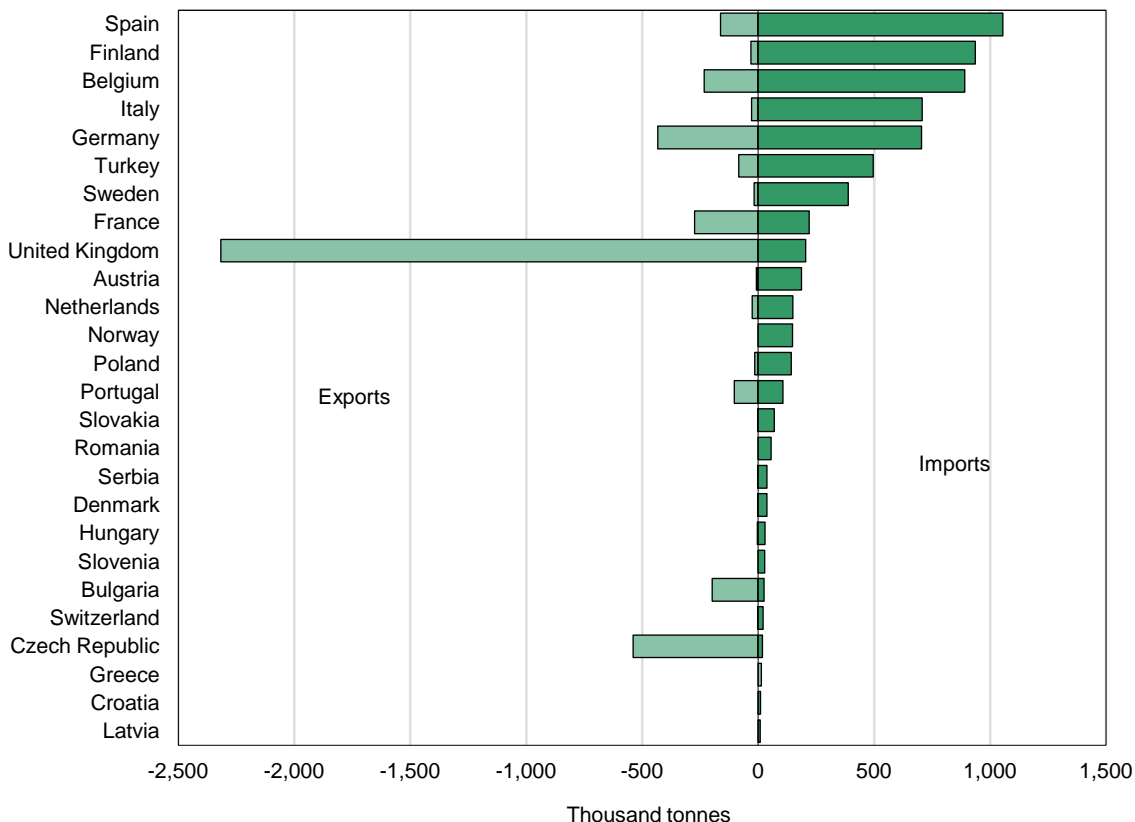
Country	2007	2008	2009	2010	2011
Austria	2 292	2 445	8 954	27 908	6 588
Belgium	611 902	1 030 076	783 512	523 697	232 664
Bulgaria	160 372	139 069	119 736	159 669	197 114
Czech Republic	173 251	233 819	174 814	485 203	537 962
Denmark	351	486	352	607	1 370
Estonia	86	...	—	878	830
Finland	10 597	8 587	13 832	18 176	30 760
France	412 284	319 301	268 674	272 778	273 802
Germany	507 867	498 165	374 313	389 927	431 815
Hungary	3 762	3 110	2 847	2 436	3 272
Italy	16 265	13 627	21 392	36 208	27 994
Luxembourg	160	268	414	22	6
Netherlands	416 108	72 264	33 563	33 923	24 652
Poland	10 401	8 936	11 515	9 781	13 591
Portugal	70 580	47 562	51 014	31 390	102 721
Serbia	17 213	10 251	4 239	1 868	1 282
Slovakia	12 546	593	1 425	4 493	552
Spain	199 541	155 563	156 915	167 811	161 156
Sweden	18 229	30 495	31 122	23 103	16 444
Switzerland	786	128	203	287	55
Turkey	132 834	130 923	61 828	137 963	83 203
United Kingdom	2 499 011	1 955 020	1 393 939	1 722 335	2 315 560

Imports of kaolin

tonnes

Country	2007	2008	2009	2010	2011
Austria	218 813	226 682	192 860	194 396	187 831
Belgium	853 701	1 465 754	905 784	1 001 057	890 863
Bulgaria	29 717	28 748	20 623	23 784	25 789
Croatia	21 845	24 009	14 486	10 238	11 278
Czech Republic	23 461	20 662	13 228	14 125	18 733
Denmark	35 288	47 525	37 738	37 007	37 755
Estonia	3 214	3 902	1 588	881	211
Finland	1 155 041	1 147 687	708 210	941 387	936 544
France	311 060	263 449	200 203	231 779	220 764
Germany	717 102	647 278	585 675	715 770	705 107
Greece	40 298	62 415	49 509	31 132	14 336
Hungary	25 168	29 089	25 094	24 175	29 736
Ireland, Republic of	19 322	18 766	3 155	4 039	3 414
Italy	881 968	810 560	505 593	823 461	707 622
Latvia	11 071	11 173	7 476	10 594	9 289
Lithuania	568	607	159	486	360
Luxembourg	9 013	10 951	6 316	904	563
Macedonia	16 849	12 259	4 879	4 985	3 815
Netherlands	612 720	352 122	68 072	150 929	150 310
Norway	208 709	253 361	190 562	225 576	149 002
Poland	122 245	126 426	90 183	117 914	143 476
Portugal	154 891	114 041	73 081	96 851	106 955
Romania	51 347	48 422	40 326	51 754	56 871
Serbia	43 867	65 704	32 091	50 421	38 810
Slovakia	87 956	95 911	58 509	62 748	70 451
Slovenia	28 363	25 682	20 776	27 287	28 779
Spain	1 571 143	1 470 440	757 859	1 061 732	1 055 122
Sweden	448 129	468 491	408 564	367 948	389 358
Switzerland	45 629	39 932	33 555	24 249	21 460
Turkey	163 015	402 812	301 086	424 152	497 148
United Kingdom	73 014	79 546	77 504	95 865	204 792

Kaolin - EU35 trade in 2011

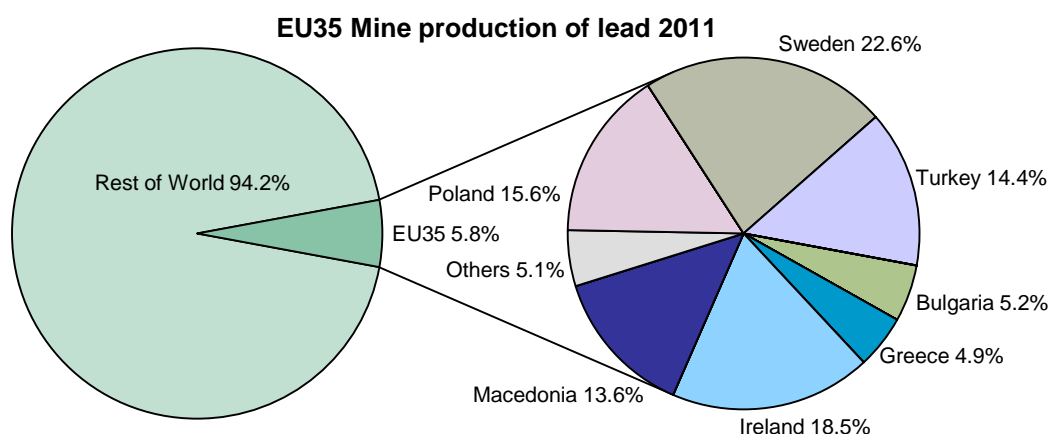


Lead

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 producer of mined lead in 2011, with 50 per cent of the total world output. The second largest was Australia (13 per cent), followed by USA (seven per cent), Peru and Mexico (five per cent each).

China was also the world's largest producer of refined lead in 2011, with 45 per cent of the total world output. The second largest was USA (12 per cent), followed by Germany, India and South Korea (four per cent each).



Mine production of lead

tonnes (metal content)

Country	2007	2008	2009	2010	2011
Bulgaria (a)	17 768	14 577	12 981	12 705	14 369
Greece	13 400	14 000	10 000	12 200	13 400
Ireland, Republic of	56 800	50 200	49 500	39 100	50 700
Italy	3 000	3 000	2 000	3 000	3 000
Macedonia	36 039	49 877	46 788	41 293	37 295
Poland	61 330	67 070	62 910	48 050	42 636
Romania	784	—	* 3 000	* 3 000	* 3 000
Serbia	1 600	1 600	1 800	1 800	2 100
Spain	—	—	1 000	300	5 705
Sweden	63 224	63 489	69 293	67 697	62 028
Turkey	20 800	31 800	21 600	38 500	39 500
United Kingdom (b)	(u)* 300	(u)* 300	243	251	280
EU35 Total	275 045	295 913	281 115	267 896	274 013

Notes

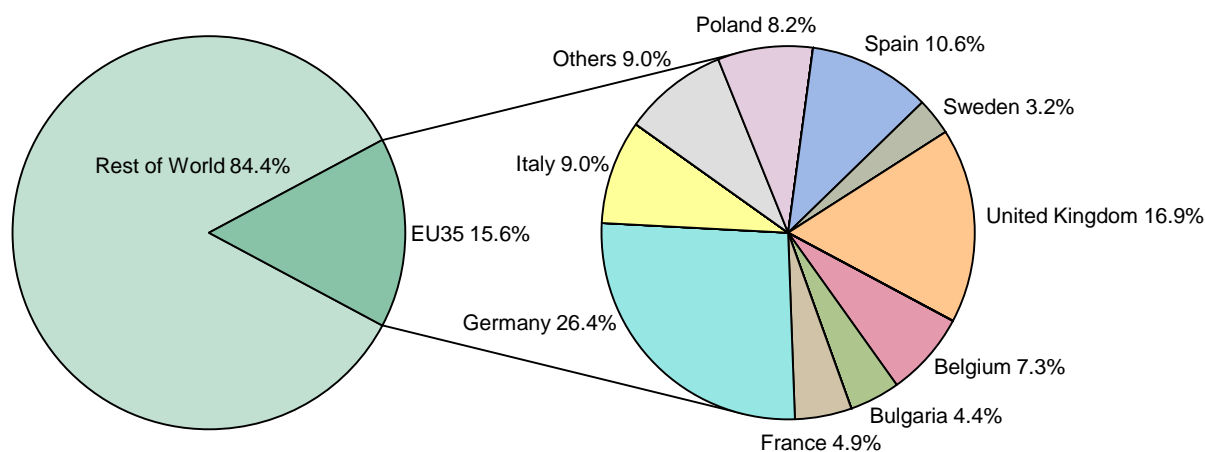
(a) Metal content of ore

(b) By-product of Pennine fluorspar operations and of gold mining in Northern Ireland

EU35 Mine production of lead 2007 - 11



EU35 Production of refined lead 2011



Production of refined lead

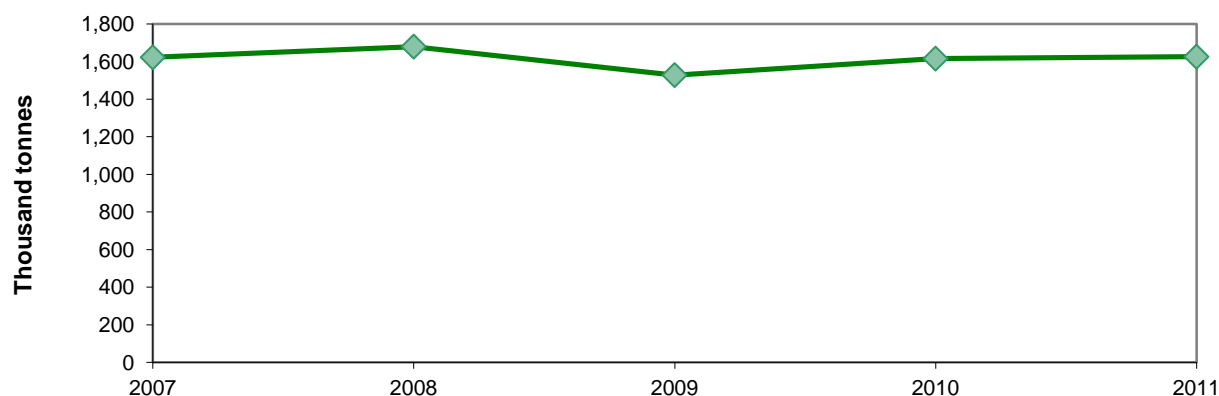
tonnes

Country	2007	2008	2009	2010	2011
Austria	28 500	26 900	22 200	25 500	26 200
Belgium	117 000	104 000	109 000	121 000	119 000
Bulgaria	87 000	90 900	83 100	80 600	71 000
Czech Republic	34 000	36 000	29 000	30 000	34 000
Estonia	10 000	10 000	10 000	10 000	10 000
France	* 88 000	82 100	62 000	71 000	80 000
Germany	355 000	415 100	390 600	405 400	429 100
Greece	* 11 000	* 11 000	* 11 000	* 11 000	* 11 000
Ireland, Republic of	22 500	20 000	19 000	19 000	18 000
Italy	211 800	199 900	149 000	150 000	146 500
Netherlands	* 16 000	* 16 000	* 17 000	16 000	16 000
Poland	104 200	108 300	100 400	120 300	133 800
Portugal	5 000	5 000	4 000	4 000	4 000
Romania	39 369	39 596	8 687	11 263	6 854
Serbia	1 300	—	—	—	—
Slovenia	15 000	15 000	14 000	14 000	15 000
Spain	128 000	145 000	138 000	163 000	172 000
Sweden	69 730	56 812	51 574	59 179	52 438
Switzerland	* 9 000	* 8 000	800	—	—
Turkey	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
United Kingdom	263 391	283 000	301 865	297 453	274 055
EU35 Total	1 621 790	1 678 608	1 527 226	1 614 695	1 624 947

Note

(1) Figures relate to both primary and secondary refined lead and include the lead content of antimonial lead.

EU35 Production of refined lead 2007 - 11



Exports of lead

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Unwrought	13 629	13 844	12 512	16 427	15 619
Scrap	1 018	600	2 173	871	729
Belgium					
Ores and concentrates	96 059	114 105	148 562	101 160	167 055
Unwrought	111 338	95 878	108 442	145 571	130 655
Scrap	19 974	18 336	21 962	21 479	18 945
Bulgaria					
Ores and concentrates	23 417	9 555	4 188	4 611	9 331
Unwrought	66 384	80 972	77 713	78 977	68 472
Croatia					
Scrap	3 590	1 872	1 025	1 697	1 842
Czech Republic					
Unwrought	16 707	18 713	23 617	32 743	27 649
Scrap	6 855	8 136	4 832	1 914	2 357
Denmark					
Scrap	1 685	1 159	4 057	3 485	4 118
Estonia					
Unwrought	10 091	10 473	8 861	10 624	11 513
France					
Unwrought	14 936	17 630	14 554	36 293	40 470
Scrap	29 544	15 888	20 815	37 654	20 392
Germany					
Ores and concentrates	467	—	1 000	4 296	19 697
Unwrought	136 609	177 129	204 075	203 077	196 443
Scrap	17 799	13 133	13 100	9 892	12 932
Greece					
Unwrought	9 913	5 792	2 360	5 209	3 068
Scrap	769	1 390	913	1 945	735
Hungary					
Scrap	2 369	4 052	4 001	1 898	2 428
Ireland, Republic of					
Ores and concentrates	108 645	91 728	109 877	62 729	64 470
Scrap	496	49	114	638	4 144
Italy					
Unwrought	8 008	34 904	23 006	7 821	15 455
Scrap	7 661	6 897	7 594	9 776	10 173
Latvia					
Scrap	363	164	1 352	3 243	3 086
Lithuania					
Scrap	11 776	9 730	4 210	5 941	5 335
Macedonia					
Ores and concentrates	47 209	...	60 702	55 482	48 959
Unwrought	70	184	1 271	801	421
Scrap	2 622	2 209	226	226	219
Netherlands					
Ores and concentrates	2 897	55 980	74 725	63 921	94 100
Unwrought	14 824	7 725	11 061	12 971	16 989
Scrap	21 822	12 278	13 807	35 168	30 486
Norway					
Scrap	974	695	504	1 800	1 444
Poland					
Ores and concentrates	70 970	69 852	59 790	35 459	30 132
Unwrought	34 455	40 017	48 599	43 945	59 599
Scrap	3 120	1 110	1 525	1 668	1 010
Portugal					
Unwrought	3 092	4 950	6 647	8 785	8 050
Scrap	9 961	3 105	2 222	1 710	1 855
Romania					
Ores and concentrates	10 501	17 396	15 759	9 096	5 952
Unwrought	23 289	22 752	9 049	10 573	18 722
Scrap	4 659	2 997	2 526	5 659	6 846
Serbia					
Ores and concentrates	11 118	11 763	9 133	10 265	13 981
Unwrought	7 187	5 683	6 695	5 661	7 848

Lead

Exports continued					tonnes
Country	2007	2008	2009	2010	2011
Slovenia					
Unwrought	8 860	6 960	6 891	8 090	6 008
Scrap	1 415	391	325	566	160
Spain					
Ores and concentrates	130	1 015	14 147	9 513	24 608
Unwrought	9 242	14 771	13 434	6 630	15 683
Scrap	7 023	6 616	3 862	6 781	5 029
Sweden					
Ores and concentrates	56 581	61 439	72 220	111 153	73 996
Unwrought	65 733	53 715	46 795	55 501	54 370
Scrap	734	816	1 044	1 445	1 471
Switzerland					
Unwrought	7 383	7 387	1 765	230	19
Scrap	4 860	3 236	4 748	5 497	5 732
Turkey					
Ores and concentrates (a)	34 715	52 988	35 973	64 247	65 917
United Kingdom					
Ores and concentrates	19	177	67	11	84
Unwrought	68 152	79 520	126 743	105 235	144 877
Unwrought alloys	39 246	57 466	54 505	62 406	4 820
Scrap	31 942	47 660	56 055	69 404	74 789

Notes

(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	2007	2008	2009	2010	2011
Austria					
Unwrought	27 015	27 475	21 580	19 391	31 675
Belgium					
Ores and concentrates	108 164	97 474	192 496	169 356	154 976
Unwrought	36 620	30 413	18 121	14 467	27 696
Scrap	54 915	25 873	34 085	31 992	33 219
Bulgaria					
Ores and concentrates	92 929	119 522	63 185	81 307	74 810
Unwrought	15 854	15 529	10 182	7 283	21 566
Scrap	3 338	5 830	12 145	17 462	4 627
Czech Republic					
Unwrought	66 060	59 318	65 896	81 762	36 233
Scrap	6 519	4 672	4 150	2 901	2 763
Denmark					
Unwrought	1 033	192	107	128	172
Scrap	2 228	1 984	2 583	2 890	1 989
Finland					
Unwrought	2 283	3 195	2 346	1 512	2 446
France					
Unwrought	118 384	103 535	42 187	34 090	39 305
Scrap	34 169	22 490	13 579	12 848	15 182
Germany					
Ores and concentrates	211 132	212 602	234 102	184 018	205 464
Unwrought	138 978	118 779	103 642	157 301	157 653
Scrap	30 313	28 231	40 547	39 653	35 823
Greece					
Unwrought	11 792	6 875	10 644	11 149	16 980
Scrap	2 071	2 800	1 753	1 692	2 136
Hungary					
Unwrought	5 802	2 711	2 663	6 138	9 497

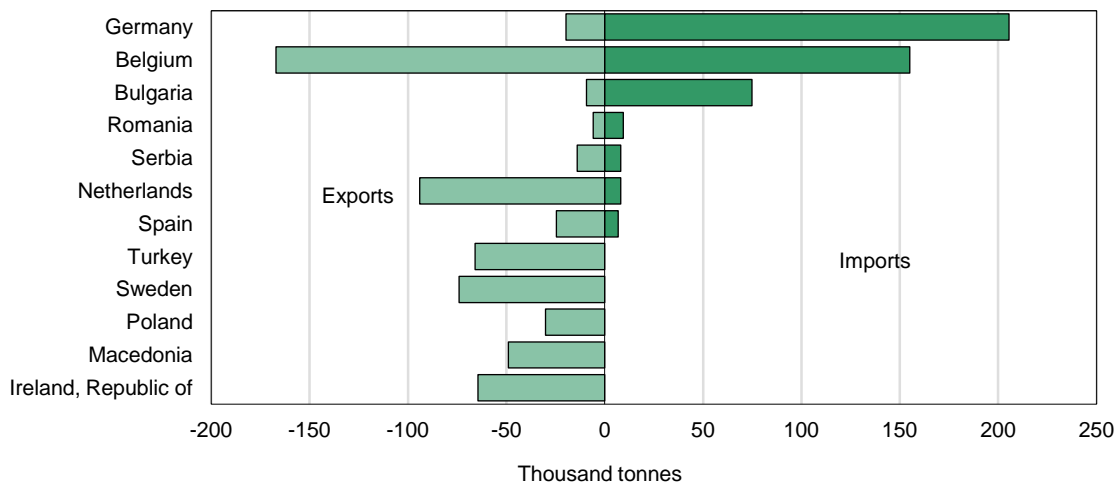
Imports continued

Country	2007	2008	2009	2010	2011
Ireland, Republic of					
Unwrought	35 675	23 480	15 784	14 357	15 345
Scrap	25 828	17 702	16 689	12 074	12 305
Italy					
Ores and concentrates	111 999	85 760	29 210	20	0
Unwrought	114 471	99 015	86 054	111 301	109 458
Scrap	7 107	2 972	2 031	2 609	4 976
Lithuania					
Scrap	368	162	3 301	4 459	5 755
Netherlands					
Ores and concentrates	22 303	5 307	1 935	1 558	8 083
Unwrought	22 419	9 373	7 195	8 717	8 496
Scrap	22 006	11 325	13 593	21 255	16 886
Norway					
Unwrought	7 055	6 473	5 026	6 449	7 713
Poland					
Unwrought	44 235	35 465	29 861	46 810	52 011
Scrap	1 256	2 467	2 293	7 154	6 673
Portugal					
Unwrought	14 704	12 014	6 642	5 593	9 403
Romania					
Ores and concentrates	17 064	27 055	5 889	7 052	9 420
Unwrought	835	872	9 245	11 834	16 789
Serbia					
Ores and concentrates	...	...	...	5 978	8 127
Unwrought	2 742	2 871	4 493	6 018	5 302
Scrap	11	...	0	1 228	2 643
Slovenia					
Unwrought	12 761	14 103	13 036	16 025	17 594
Scrap	5 191	1 556	1 985	3 812	3 611
Spain					
Ores and concentrates	8 188	7 107	3 199	10 946	6 722
Unwrought	157 485	116 492	121 522	110 217	114 380
Scrap	42 629	35 506	35 703	43 432	42 236
Sweden					
Ores and concentrates	—	275	—	14 763	—
Unwrought	6 554	6 922	5 028	5 340	5 783
Scrap	3 771	2 089	5 176	9 464	8 401
Switzerland					
Unwrought	7 087	9 915	9 446	5 664	2 838
Turkey					
Unwrought	46 966	79 460	73 520	73 057	85 131
United Kingdom					
Ores and concentrates	72	116	24	23	47
Unwrought , base bullion (a)	119 726	194 113	130 312	151 653	127 691
Unwrought, other	31 180	19 569	15 479	14 359	18 601
Unwrought alloys	7	19 924	1 798	787	1 287
Scrap	17 685	4 621	4 962	8 858	4 792

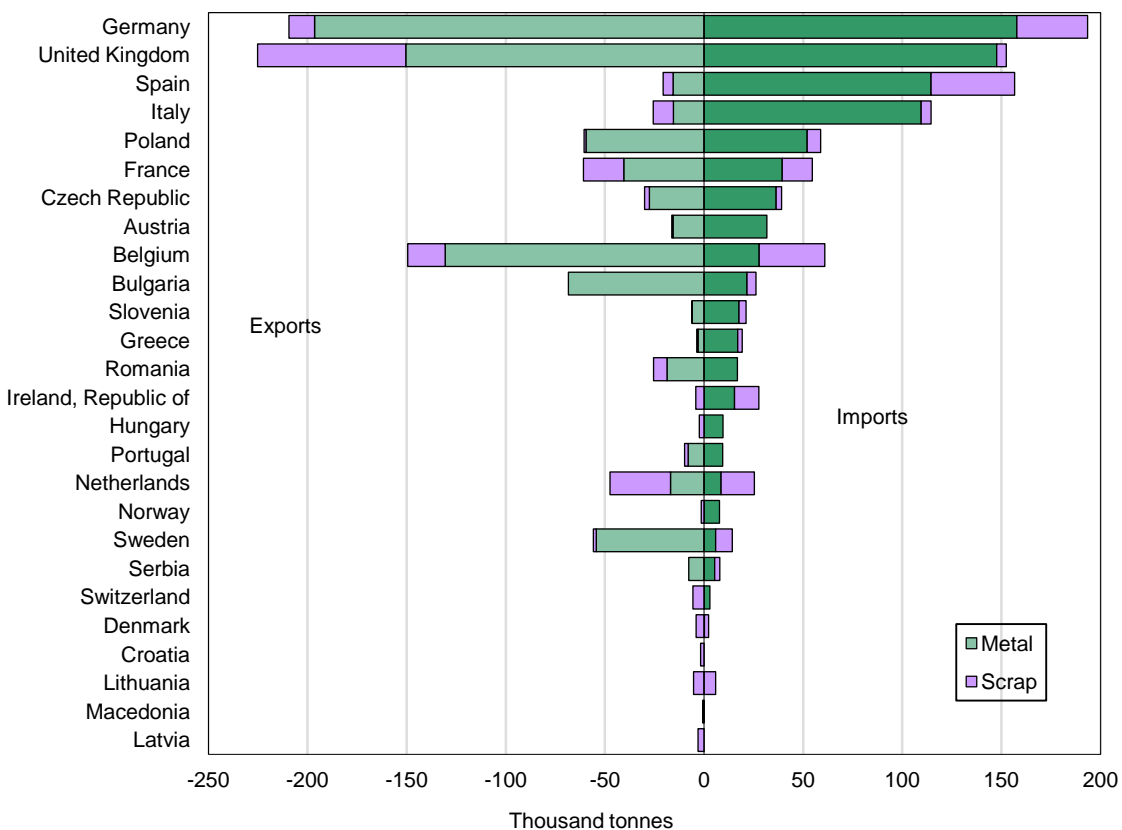
Notes

- (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 - EU35 trade in 2011



Lead - EU35 trade in 2011



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 can either be produced from minerals, such as spodumene or lepidolite, or from brine extracted from beneath salt lakes. Based on lithium content, Chile was the world's largest producer in 2011, with an estimated 53 per cent of the total world output, which was entirely from brine extraction. The second largest was Australia (21 per cent, entirely from minerals), followed by Argentina (11 per cent, from brine), USA (six per cent, from brine) and China (five per cent, from both minerals and brine).

Production of lithium minerals

					tonnes
Country	2007	2008	2009	2010	2011
Portugal					
Lepidolite	34 755	34 888	37 359	40 109	37 534
Spain					
Lepidolite	10 326	9 342	4 270	7 824	* 7 800
EU35 Total	45 081	44 230	41 629	47 933	45 334

Exports of lithium

					tonnes
Country	2007	2008	2009	2010	2011
Austria					
Carbonate	45	28	10	170	166
Belgium					
Oxides	1 370	1 281	781	2 284	1 890
Carbonate	4 915	3 567	3 042	4 539	4 428
Germany					
Carbonate	2 705	2 290	1 880	2 387	2 927
Italy					
Carbonate	225	193	145	49	105
Netherlands					
Oxides	331	511	205	116	365
Carbonate	318	299	227	160	300
Slovenia					
Carbonate	110	122	128	88	91
Spain					
Carbonate	192	128	228	175	268
Switzerland					
Oxides	75	88	2 041	190	1
United Kingdom					
Oxides	92	232	569	144	7
Carbonate	158	216	193	123	50

Lithium

Imports of lithium

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Carbonate	248	333	327	402	463
Belgium					
Oxides	1 784	1 851	1 179	2 410	2 953
Carbonate	5 895	4 414	3 410	4 183	7 770
Czech Republic					
Carbonate	146	64	35	66	74
Denmark					
Carbonate	155	311	402	340	358
France					
Oxides	314	256	362	570	479
Carbonate	1 289	1 251	1 172	1 137	2 792
Germany					
Oxides	5 163	5 420	(a)* 3 000	(a)* 1 900	(a)* 500
Carbonate	8 131	7 098	4 433	6 486	5 735
Italy					
Oxides	160	246	96	175	148
Carbonate	1 303	1 519	1 185	1 123	1 369
Netherlands					
Oxides	428	537	228	290	494
Carbonate	1 459	729	316	431	527
Poland					
Oxides	245	61	86	86	114
Carbonate	184	162	137	175	177
Slovenia					
Oxides	144	186	139	95	125
Spain					
Oxides	600	501	521	1 007	698
Carbonate	1 811	3 908	2 825	3 239	3 423
Sweden					
Oxides	107	146	149	214	243
Carbonate	236	278	191	87	69
Switzerland					
Oxides	142	143	110	118	141
Turkey					
Oxides	245	257	208	268	261
Carbonate	683	617	613	770	865
United Kingdom					
Oxides	614	466	914	218	215
Carbonate	779	536	622	427	376

Note

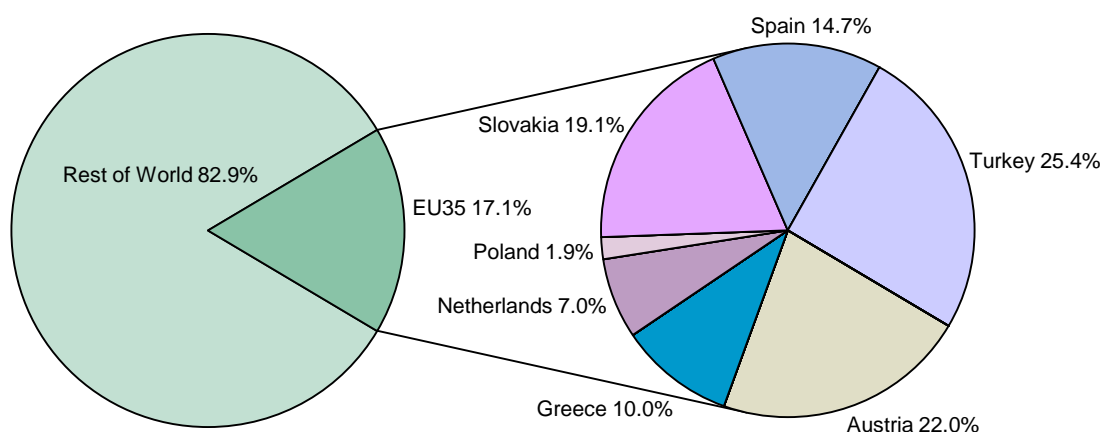
(a) BGS estimates, based on known exports into certain countries

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.

China was the world's largest producer in 2011, with 63 per cent of the total world output. The second largest was Russia (11 per cent), followed by Turkey and Austria (four per cent each) and Slovakia (three per cent).

EU35 Production of magnesite 2011



Production of magnesite

Country	2007	2008	2009	2010	2011
Austria	811 556	837 476	544 716	757 063	867 912
Greece	351 414	361 165	380 834	396 497	393 880
Netherlands (a)	* 245 000	316 264	183 256	236 053	274 877
Poland	65 000	60 000	47 000	63 000	75 000
Slovakia	957 000	806 500	477 600	650 100	751 700
Spain	464 498	442 339	390 311	462 959	577 725
Turkey	1 984 908	2 143 047	861 180	1 541 860	* 1 000 000
EU35 Total	4 879 376	4 966 791	2 884 897	4 107 532	3 941 094

Notes

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

(a) Chloride produced from solution mining

EU35 Production of magnesite 2007 - 11



Exports of magnesite and magnesia

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Magnesite	760	602	1 746	989	780
Magnesia	57 964	28 779	26 716	39 589	79 519
Belgium					
Magnesite	1 761	1 911	876	1 235	914
Magnesia	64 293	81 909	59 644	96 513	58 237
Czech Republic	3 988	4 540	3 728	3 809	7 096
Denmark	451	461	518	796	644
France					
Magnesite	373	310	576	274	207
Magnesia	48 852	57 342	35 523	52 553	35 543
Germany					
Magnesite	463	22	140	229	1 303
Magnesia	87 264	72 684	58 604	94 198	67 605
Greece					
Magnesia	132 083	126 496	84 399	108 020	110 276
Ireland, Republic of					
Magnesite	5 487	5 006	9 133	3 383	18 665
Magnesia	3 981	9 912	8 595	33 334	11 761
Italy					
Magnesite	3 878	2 337	1 945	2 535	3 236
Magnesia	9 036	8 172	5 873	7 393	6 194
Lithuania					
Magnesia	26	...	537	717	352
Luxembourg					
Magnesite	197	481	621	943	1 325
Netherlands					
Magnesite	582	494	180	423	744
Magnesia	128 060	344 675	160 337	139 516	402 976
Poland	2 632	1 921	734	1 087	651
Romania					
Magnesia	351	440	381	460	212
Serbia	463	858	561	2 179	7 355
Slovakia					
Magnesite (a)	* 6 000	* 9 300	* 7 400	* 8 400	* 4 900
Magnesia	444 539	409 295	261 876	336 786	340 612
Slovenia					
Magnesia	257	421	344	334	259
Spain					
Magnesite	607	725	2 167	410	573
Magnesia	185 364	175 307	156 027	224 590	259 493
Sweden					
Magnesia	1 593	235	380	303	165
Turkey					
Magnesite	40 414	68 054	35 097	24 213	37 902
Magnesia	181 870	175 441	162 651	209 633	238 620
United Kingdom					
Magnesite	51	316	518	470	745
Magnesia	16 371	13 647	9 662	14 497	28 042

Notes

(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	2007	2008	2009	2010	2011
Austria					
Magnesite	933	2 319	937	848	1 512
Magnesia	317 952	248 037	21 708	272 232	214 788
Belgium					
Magnesite	3 148	2 357	1 412	3 820	2 076
Magnesia	101 887	141 185	104 577	80 845	70 954
Bulgaria	4 670	6 296	3 180	5 678	11 378
Croatia	1 872	1 682	1 289	1 208	1 061
Czech Republic					
Magnesite	6 527	4 193	3 460	7 108	4 578
Magnesia	52 330	54 246	38 048	38 862	40 975
Denmark					
Magnesite	512	456	2 680	2 728	2 299
Magnesia	3 327	4 149	5 472	4 636	4 927
Estonia					
Magnesia	101	222	260	297	382
Finland					
Magnesia	15 989	8 692	6 439	7 387	9 214
France					
Magnesite	2 355	2 378	1 209	784	1 087
Magnesia	163 908	164 235	117 821	126 821	127 469
Germany					
Magnesite	17 029	8 420	6 731	12 751	5 625
Magnesia	568 508	562 618	276 674	473 545	515 139
Greece					
Magnesite	12 611	44 397	19 803	3 603	14 704
Magnesia	20 682	7 328	1 729	2 198	7 506
Hungary					
Magnesite	442	1 751	1 081	1 331	1 499
Magnesia	9 318	7 892	1 563	6 783	4 369
Ireland, Republic of					
Magnesite	5 971	4 385	4 191	5 535	6 333
Magnesia	48 088	42 999	22 523	39 638	49 122
Italy					
Magnesite	10 240	18 347	9 375	21 454	27 347
Magnesia	131 140	150 098	93 262	143 725	133 451
Latvia					
Magnesia	4 678	5 355	2 827	5 524	2 735
Lithuania					
Magnesia	6 501	5 196	855	1 245	593
Luxembourg	1 373	1 663	2 202	2 612	2 375
Macedonia	18 863	13 956	10 113	11 266	9 418
Netherlands					
Magnesite	1 390	3 609	3 259	459	3 115
Magnesia	437 684	314 860	80 478	345 154	458 372
Norway					
Magnesia	4 298	5 989	4 904	10 987	8 714
Poland					
Magnesite	1 536	216	2 658	3 966	1 375
Magnesia	109 810	109 646	81 304	113 757	137 148
Portugal					
Magnesite	924	1 521	697	1 162	1 379
Magnesia	7 119	5 863	8 538	4 504	5 523
Romania					
Magnesia	19 666	13 003	7 427	10 389	13 391
Serbia					
Magnesia	4 871	840	585	570	547
Slovakia					
Magnesite	3 520	3 401	2 906	3 916	4 960
Magnesia	36 768	40 675	12 731	28 639	27 100
Slovenia	8 117	8 272	4 346	7 279	64 675
Spain					
Magnesite	4 092	2 839	10 029	3 926	6 164
Magnesia	117 867	143 849	42 980	94 840	97 566

Magnesite and magnesia

Imports continued

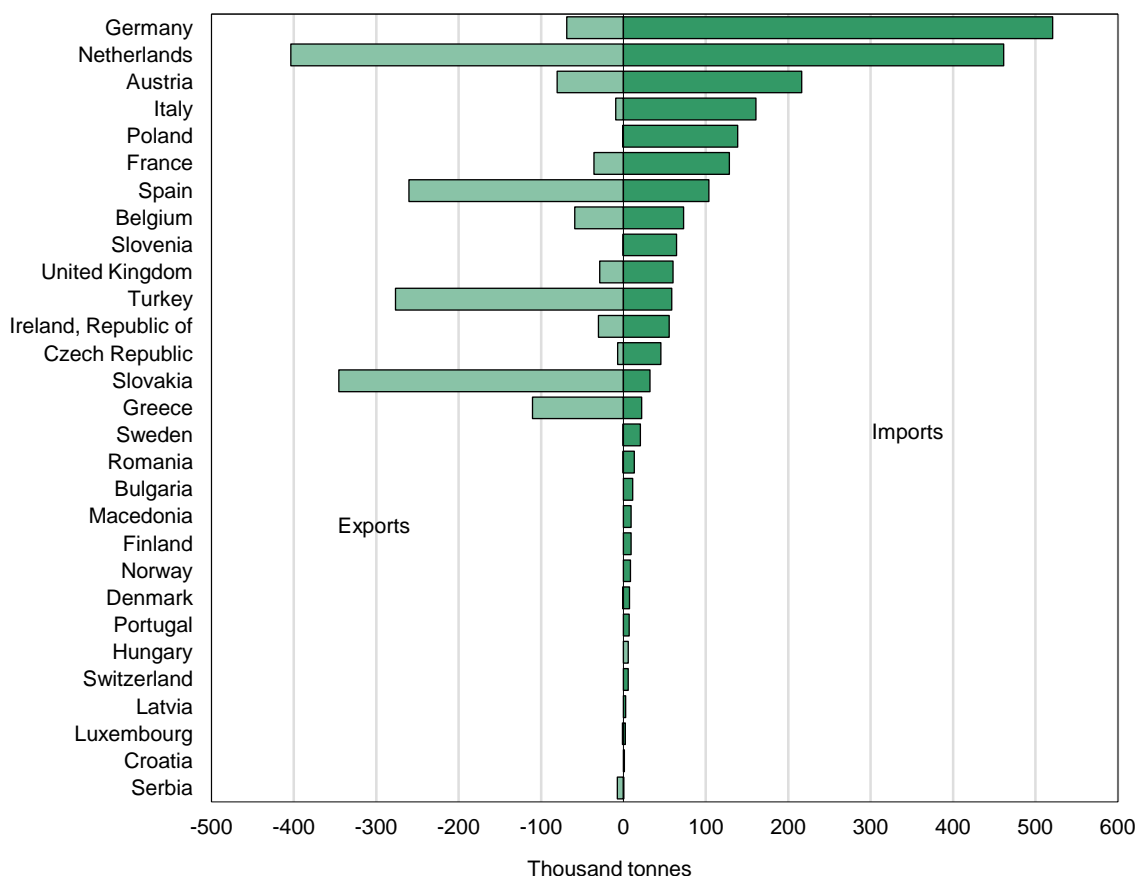
tonnes

Country	2007	2008	2009	2010	2011
Sweden					
Magnesite	477	38	2	84	114
Magnesia	17 556	14 701	15 832	12 004	20 425
Switzerland					
Magnesite	1 024	69	502	362	793
Magnesia	7 144	7 772	4 762	4 625	4 917
Turkey					
Magnesia	43 360	61 519	40 595	60 121	58 556
United Kingdom					
Magnesite	10 194	7 016	3 567	8 640	7 903
Magnesia	57 905	59 300	43 873	49 076	52 263

Note

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

Magnesite and magnesia - EU35 trade in 2011



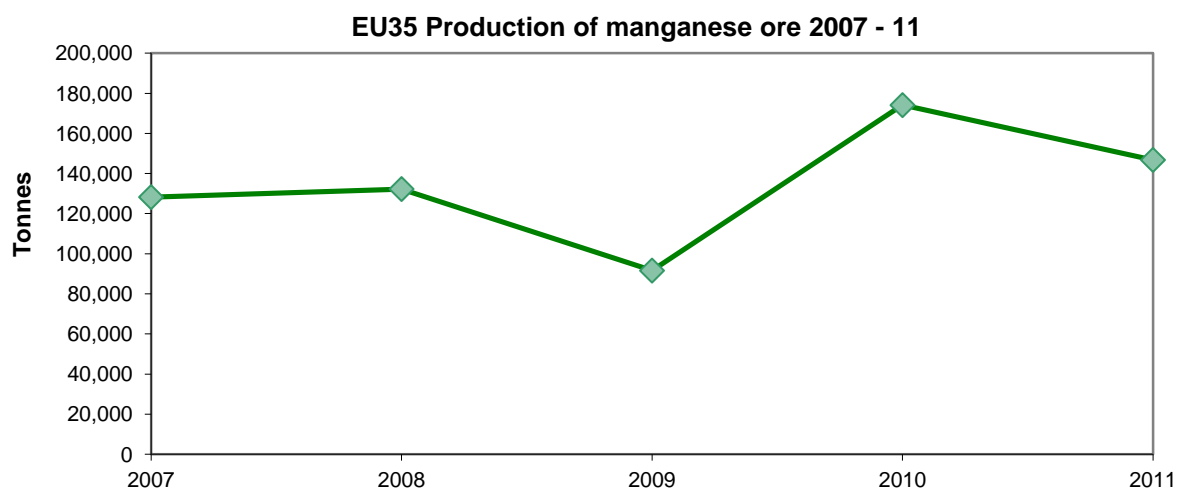
Manganese ore

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. Manganese ore, ferro-manganese, electrolytic manganese dioxide and manganese metal are the chief forms in international trade.

China was the world's largest producer of manganese ore in 2011, with 30 per cent of the total world output. The second largest was South Africa (18 per cent), followed by Australia (15 per cent), Gabon (eight per cent) and Brazil (seven per cent).

Production of manganese ore

Country	2007	2008	2009	2010	2011
Bulgaria	27 900	39 100	28 300	106 000	85 600
Hungary	51 000	49 579	43 000	55 000	58 000
Romania	49 350	43 590	20 304	13 120	3 180
EU35 Total	128 250	132 269	91 604	174 120	146 780



Exports of manganese

Country	2007	2008	2009	2010	2011
Belgium					
Ores and concentrates	15 819	8 578	5 192	4 444	9 982
Metal	4 060	1 947	714	1 185	1 625
Bulgaria					
Ores and concentrates	19 335	17 369	29 715	163 257	91 110
Estonia					
Metal	464	226	137	5	25
Finland					
Metal	31	98	341	32	25
France					
Ores and concentrates (a)	333 747	321 638	138 787	152 425	125 827
Metal	327	488	631	717	805
Germany					
Ores and concentrates	5 761	3 321	3 710	4 480	5 035
Metal	15 414	12 921	6 727	8 243	8 907
Italy					
Metal	309	494	326	716	963
Netherlands					
Ores and concentrates	8 223	19 103	28 701	21 806	29 097
Metal	19 767	19 144	15 642	38 159	44 310
Norway					
Ores and concentrates	56 939	10 266	9 214	10 709	2 600
Metal	2 373	1 363	59	112	462
					265

Manganese

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Poland					
Metal	460	35	603	2 875	41
Romania					
Metal	3 024	6 666	—	—	—
Spain					
Ores and concentrates	1 299	518	21 456	707	623
Metal	5 783	4 562	3 386	1 297	1 735
Turkey					
Ores and concentrates	13 007	81 280	59 183	51 731	100 172
Metal	20	401	81	4 952	12
United Kingdom					
Ores and concentrates	114	244	65	97	129
Metal (b)	* 2 100	* 3 200	* 2 200	* 2 000	* 2 100

Notes

(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	2007	2008	2009	2010	2011
Austria					
Ores and concentrates	383	215	184	152	334
Metal	17 543	14 275	11 512	16 696	21 123
Belgium					
Ores and concentrates	79 022	83 909	61 980	49 731	49 393
Metal	6 403	4 423	3 076	4 377	5 466
Bulgaria					
Ores and concentrates	27 602	—	20	5	133
Croatia					
Metal	586	64	53	23	30
Czech Republic					
Ores and concentrates	16 079	15 715	16 063	25 758	28 810
Metal	757	2 542	2 219	984	907
Denmark					
Ores and concentrates	775	698	1 158	257	1 051
Metal	317	233	136	183	124
Estonia					
Metal	836	478	168	576	85
Finland					
Ores and concentrates	27 251	24 926	12 224	21 961	3 792
Metal	2 379	2 649	912	2 134	2 123
France					
Ores and concentrates (a)	678 369	876 961	193 684	721 272	647 182
Metal	15 198	19 115	8 905	17 586	21 186
Germany					
Ores and concentrates (a)	15 997	14 916	14 645	17 346	19 137
Metal	42 368	47 581	33 989	43 346	40 705
Greece					
Ores and concentrates	—	51 425	31 776	22 888	51 374
Hungary					
Ores and concentrates	254	293	220	198	159
Metal	332	1 185	280	336	461
Ireland, Republic of					
Ores and concentrates (a)	286	75	65	54	9 565
Italy					
Ores and concentrates (a)	113 300	114 289	77 075	55 284	81 629
Metal	7 100	5 839	3 709	5 788	5 759
Macedonia					
Ores and concentrates	143 556	170 455	...	56 893	110 589

Imports continued

tonnes

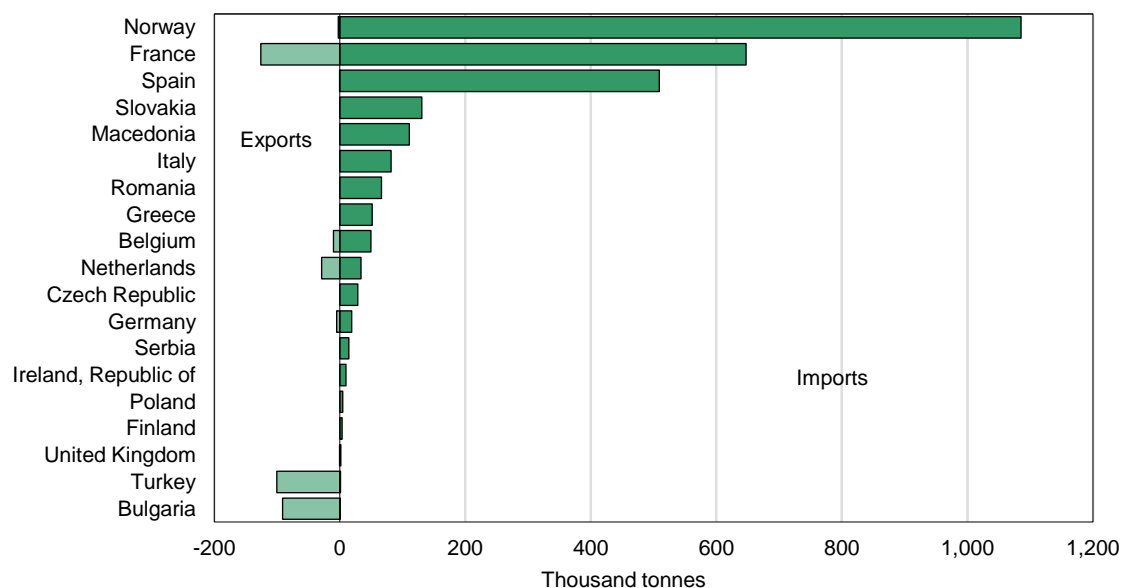
Country	2007	2008	2009	2010	2011
Netherlands					
Ores and concentrates	11 749	10 664	9 398	23 045	33 555
Metal	31 236	35 573	19 083	50 866	35 618
Norway					
Ores and concentrates	1 083 361	1 232 799	525 674	1 121 716	1 085 383
Metal	2 953	2 595	1 297	1 974	2 697
Poland					
Ores and concentrates	32 984	54 087	1 930	4 345	4 509
Metal	1 167	716	507	1 514	436
Portugal					
Ores and concentrates	51	765	13	68	56
Romania					
Ores and concentrates	79	16 432	16	87 880	66 285
Metal	3 030	646	527	220	588
Serbia					
Ores and concentrates	13 584	12 981	16 833	17 003	14 366
Metal	209	233	180	324	317
Slovakia					
Ores and concentrates	253 048	211 653	74 712	146 434	130 519
Metal	313	350	395	442	659
Slovenia					
Metal	388	438	264	433	420
Spain					
Ores and concentrates	349 131	640 677	54 606	407 450	508 794
Metal	9 563	10 033	3 994	7 510	10 951
Sweden					
Ores and concentrates	130	388	854	522	438
Metal	3 012	3 287	1 880	3 815	5 241
Switzerland					
Ores and concentrates	415	472	340	214	333
Metal	778	472	282	556	509
Turkey					
Ores and concentrates	428	2 531	540	694	1 295
Metal	719	874	583	980	1 202
United Kingdom					
Ores and concentrates (a)	1 569	4 133	941	1 517	1 656
Metal	7 021	8 773	4 123	6 619	5 444

Notes

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

(a) Including manganiferous iron ore

Manganese ores and concentrates - EU35 trade in 2011

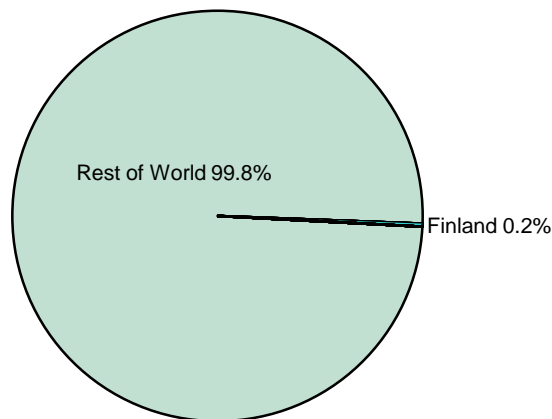


Mercury

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 2011. China was the world's largest producer, with 72 per cent of the total world output. The second largest was Kyrgyzstan (12 per cent), followed by Mexico (six per cent), Chile (five per cent) and Russia (two per cent).

EU35 Production of mercury 2011



Production of mercury

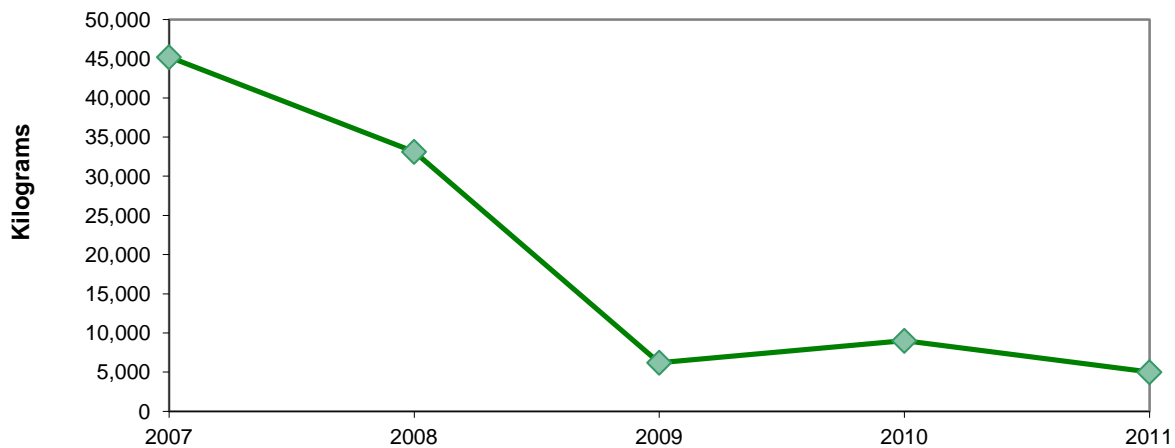
kilograms

Country	2007	2008	2009	2010	2011
Finland	45 195	33 120	6 210	9 000	5 000

Note

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

EU35 Production of mercury 2007 - 11



Exports of mercury

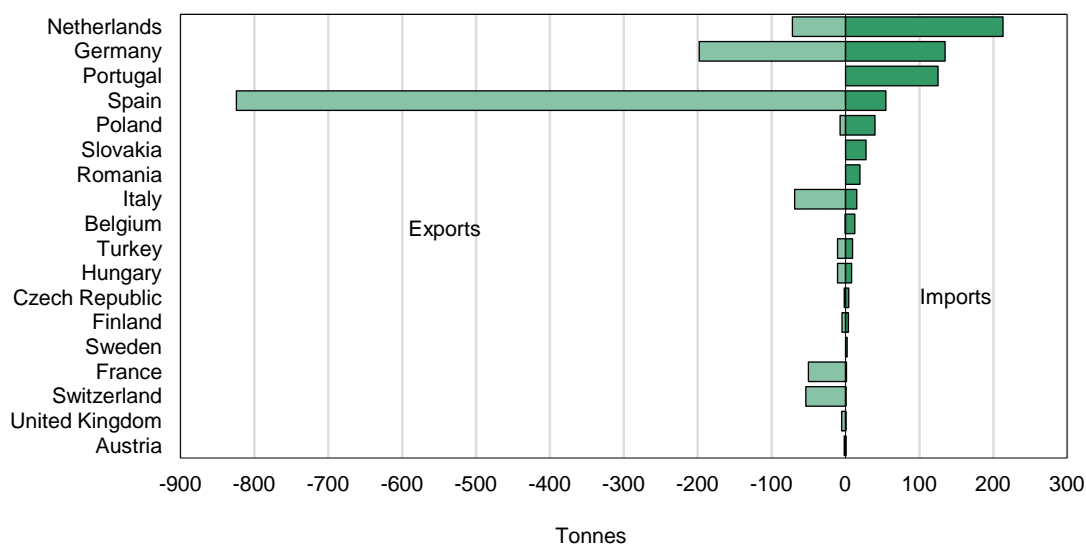
Country	2007	2008	2009	2010	2011
Austria	5 000	200	2 000	(a)* 3 300	(a)* 1 600
Belgium	3 300	110 800	1 400	11 500	600
Czech Republic	3 600	6 300	6 400	1 100	1 700
Finland	45 600	35 000	6 211	9 321	4 830
France	9 100	1 700	718	1 595	49 992
Germany	42 300	111 100	120 587	110 405	197 989
Hungary	...	...	...	6 400	10 700
Italy	125 946	84 247	89 228	202 273	68 623
Netherlands	196 039	192 605	419 480	195 272	72 020
Poland	61 600	17 700	46 200	106 100	7 300
Spain	779 110	639 203	376 885	964 922	824 421
Switzerland	140 336	11 592	25 372	8 529	53 581
Turkey	...	22 885	89	2 156	10 890
United Kingdom	4 311	6 369	178 571	9 321	5 368

Note

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

Imports of mercury

Country	2007	2008	2009	2010	2011
Austria	5 322	587	360	383	200
Belgium	7 800	133 100	15 700	57 200	12 500
Czech Republic	3 200	3 700	4 400	2 400	4 400
Finland	200	209	2 136	2 203	4 069
France	190 000	105 300	222 224	19 073	1 406
Germany	84 100	19 700	28 678	104 241	134 666
Greece	338	2 628	668	211	1 200
Hungary	3 300	4 293	4 800	5 000	8 400
Ireland, Republic of	1 019	979	1 182	8 582	24
Italy	9 491	21 754	19 992	10 510	15 246
Netherlands	674 888	293 481	* 101 000	30 636	213 259
Poland	15 700	13 300	10 900	4 300	39 900
Portugal	—	7 500	25 100	152 900	125 400
Romania	80 054	2 325	415	18 149	19 500
Slovakia	3 400	5 200	4 500	4 700	27 700
Spain	906 297	337 117	467 614	335 852	54 748
Sweden	10 600	13 800	21 300	2 700	2 400
Switzerland	6 687	3 557	801	1 370	471
Turkey	9	3 069	1 635	719	9 772
United Kingdom	2 668	2 387	1 121	22 065	425

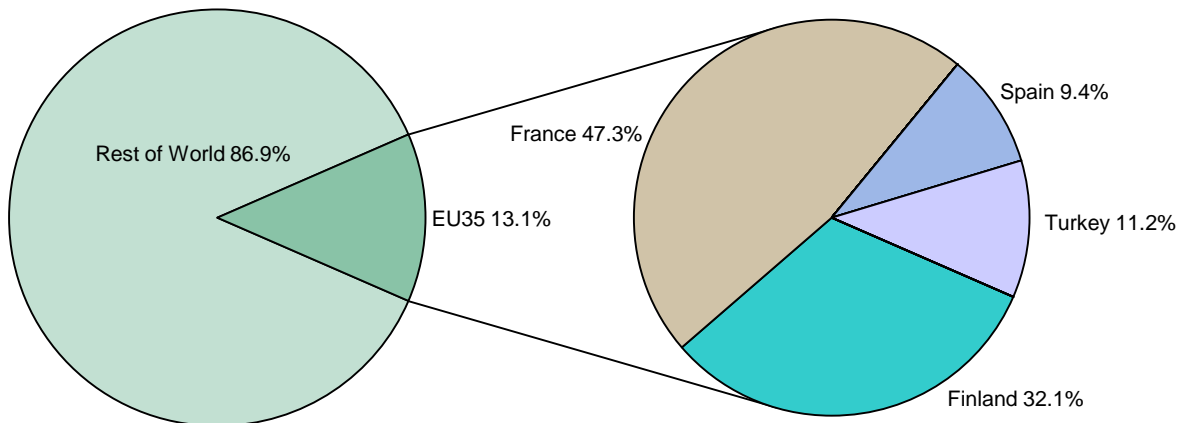
Mercury - EU35 trade in 2011

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.

China was the world's largest producer in 2011, with 43 per cent of the total world output. The second largest was USA (16 per cent), followed by South Korea (ten per cent), France (six per cent) and Canada (five per cent).

EU35 Production of mica 2011



Production of mica

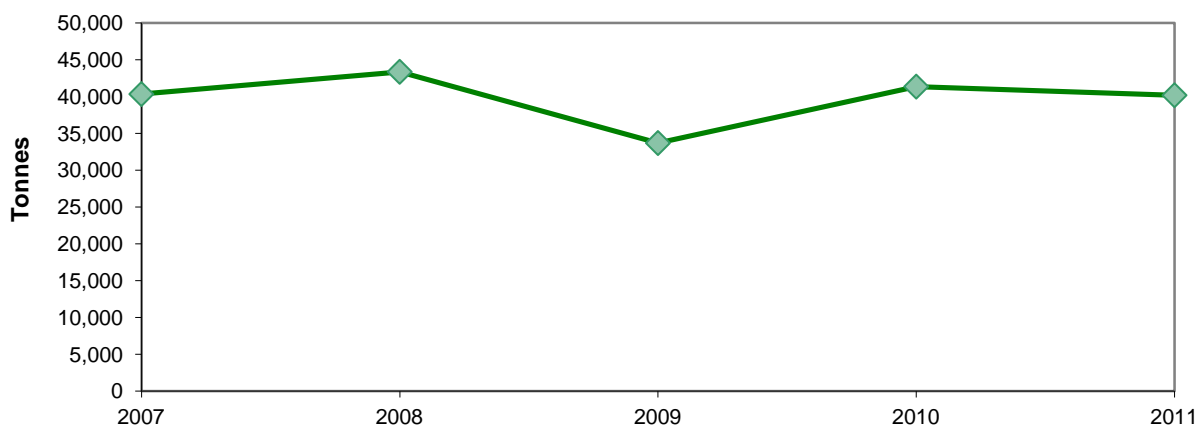
Country	2007	2008	2009	2010	2011
Finland	11 449	10 706	7 855	13 809	12 896
France (a)	* 20 000	* 20 000	* 18 000	* 19 000	* 19 000
Spain (a)	5 569	4 254	3 655	4 034	3 775
Turkey	3 313	8 392	4 172	* 4 500	* 4 500
EU35 Total	40 331	43 352	33 682	41 343	40 171

Notes

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

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

EU35 Production of mica 2007 - 11



Exports of mica

Country	2007	2008	2009	2010	2011
Austria	4 234	4 274	3 328	4 303	4 245
Belgium	3 226	2 127	1 562	1 590	2 363
Finland					
Ground	8 956	7 138	6 125	11 377	8 516
France	13 959	13 923	10 819	12 455	12 821
Germany	4 957	4 713	2 888	4 197	4 479
Italy	1 429	3 211	857	697	1 014
Netherlands	6 842	1 341	3 214	1 687	2 396
Norway	2 168	2 640	1 835	2 078	2 144
Spain					
Unmanufactured	2 473	1 259	563	1 339	1 823
Ground	1 089	1 368	1 521	2 269	2 193
Turkey	—	840	570	601	1 039
United Kingdom	3 820	4 749	3 944	4 137	...
United Kingdom					
Unmanufactured	2	14	4	12	4
Ground	3 818	4 735	3 928	4 125	4 234
Waste	0	...	12	...	...

Notes

- (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

Country	2007	2008	2009	2010	2011
Austria	722	857	492	874	656
Belgium					
Unmanufactured	417	2 155	3 454	2 636	2 395
Ground	3 461	5 409	3 507	4 086	4 722
Waste	4 364	2 067	45	8	120
Czech Republic	2 262	1 958	981	2 513	740
Denmark	366	276	242	237	150
Finland	4 098	4 383	1 988	3 647	3 351
France					
Unmanufactured	197	1 144	370	255	848
Ground	2 335	2 031	1 844	1 861	2 149
Germany					
Unmanufactured	16	386	221	1 330	10 527
Ground	36 345	33 175	25 682	29 716	26 405
Waste	782	966	316	428	20
Greece	123	218	317	169	175
Ireland, Republic of	508	291	43	77	24
Italy					
Unmanufactured	189	106	417	136	209
Ground	4 803	3 980	2 597	3 854	3 849
Luxembourg	787	41	0	1	3
Netherlands					
Unmanufactured	400	751	523	191	419
Ground	9 933	2 618	3 490	21 756	20 744
Norway					
Unmanufactured	912	1 174	1 021	1 224	1 573
Ground	337	1 243	1 140	1 179	294
Poland	1 118	880	1 134	1 150	2 019
Portugal	284	125	139	284	288
Romania	478	488	441	785	1 077
Spain	1 871	952	1 467	1 183	1 534

Mica

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
United Kingdom					
Unmanufactured	289	377	328	43	243
Ground	6 705	7 061	6 396	7 341	7 926
Waste	3 433	2 030	49	902	0

Notes

(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 2011 was confined to only 11 countries, of which China was the world's largest producer, with 37 per cent of the total world output. The second largest was USA (25 per cent), followed by Chile (16 per cent), Peru (eight per cent) and Mexico (four per cent).

Exports of molybdenum

Country	2007	2008	2009	2010	2011
Austria					
Metal (a)	* 3 500	* 3 000	* 1 800	* 2 300	* 2 800
Belgium					
Ores and concentrates	22 340	11 314	15 581	24 396	25 337
Metal	556	243	105	371	128
Oxides	829	379	91	83	366
Bulgaria					
Metal	99	123	132	122	355
France					
Ores and concentrates	485	55	75	205	352
Germany					
Ores and concentrates	2 723	3 575	2 502	5 017	3 955
Metal	346	2 857	725	763	1 248
Italy					
Ores and concentrates	311	159	205	1 523	2 299
Metal	221	873	488	911	443
Oxides	185	604	982	443	286
Netherlands					
Ores and concentrates	26 613	16 284	4 408	17 126	19 765
Metal	409	282	46	249	492
Oxides	3 059	4 253	1 805	6 429	6 434
Spain					
Metal	3	18	68	243	14
United Kingdom					
Ores and concentrates	78	64	35	305	3
Metal	237	241	433	572	403
Oxides	2	8	0	5	2

Notes

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

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

Molybdenum

Imports of molybdenum

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metal	1 243	1 502	430	548	951
Belgium					
Ores and concentrates	43 932	37 964	37 101	46 899	42 498
Metal	752	358	344	142	235
Oxides	2 796	2 075	968	694	1 204
Bulgaria					
Metal	47	15	47	10	193
Czech Republic					
Ores and concentrates	213	284	1 040	184	118
Metal	130	560	127	82	104
Denmark					
Oxides	432	361	388	418	253
Finland					
Ores and concentrates	5 789	3 498	40	—	...
France					
Ores and concentrates	1 511	1 933	769	1 209	1 764
Metal	830	1 094	541	888	1 098
Oxides	670	1 191	1 018	1 095	1 465
Germany					
Ores and concentrates	10 721	9 645	6 953	9 134	9 500
Metal	4 238	4 132	1 726	3 038	3 761
Oxides	1 776	1 905	1 661	2 890	2 699
Greece					
Metal	34	60	58	45	50
Hungary					
Metal	112	102	69	70	60
Italy					
Ores and concentrates	5 901	6 220	6 703	9 108	5 248
Metal	215	254	171	136	219
Oxides	183	125	176	276	199
Lithuania					
Metal	11	6	7	65	37
Netherlands					
Ores and concentrates	30 403	36 305	9 555	35 335	40 562
Metal	1 060	572	84	274	261
Oxides	1 341	859	230	594	865
Poland					
Metal	616	843	281	889	1 292
Slovakia					
Metal	5	24	106	1	2
Slovenia					
Ores and concentrates	876	690	292	561	523
Spain					
Ores and concentrates	4 622	3 787	1 724	2 585	3 572
Metal	113	189	236	239	83
Sweden					
Ores and concentrates	7 003	4 645	2 514	5 487	5 893
Metal	281	442	470	644	360
Oxides	780	711	219	414	357
Turkey					
Ores and concentrates	4	3	291	46	12
Metal	8	89	16	28	34
United Kingdom					
Ores and concentrates	18 381	15 130	9 007	12 581	15 844
Metal	1 390	2 102	707	1 099	1 415
Oxides	513	1 433	510	1 638	2 316

Note

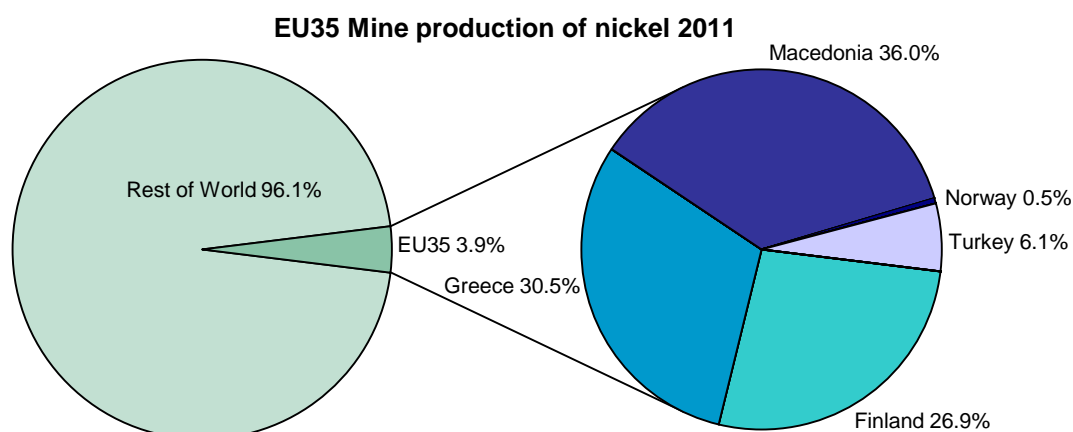
(1) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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.

The Philippines overtook Russia and Indonesia to become the world's largest producer of mined nickel in 2011, with 17 per cent of the total world output. The second largest was Russia (15 per cent), followed by Indonesia, Canada and Australia (12 per cent each).

China was the world's largest producer of refined nickel in 2011, with 25 per cent of the total world output. The second largest was Russia (16 per cent), followed by Japan (ten per cent), Canada (nine per cent) and Australia (seven per cent).

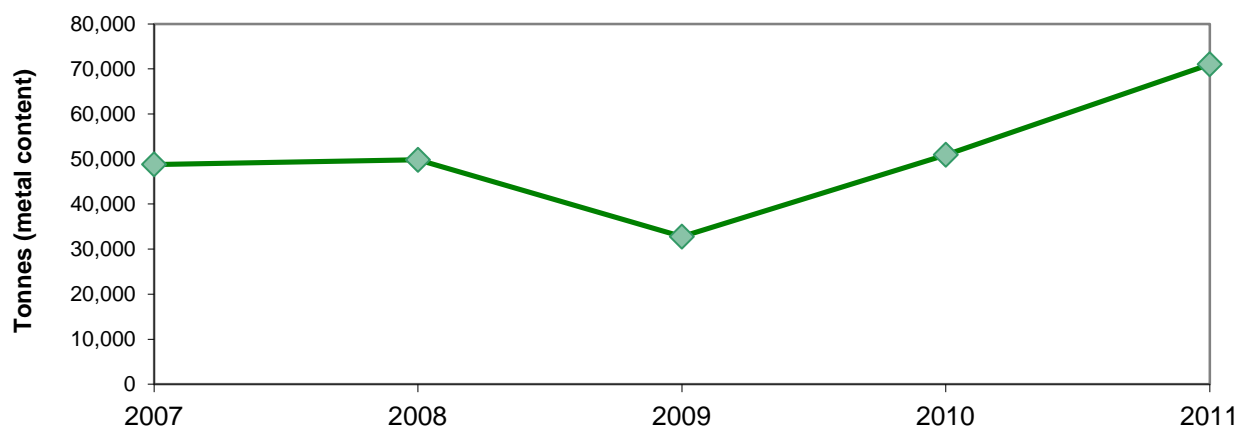


Mine production of nickel

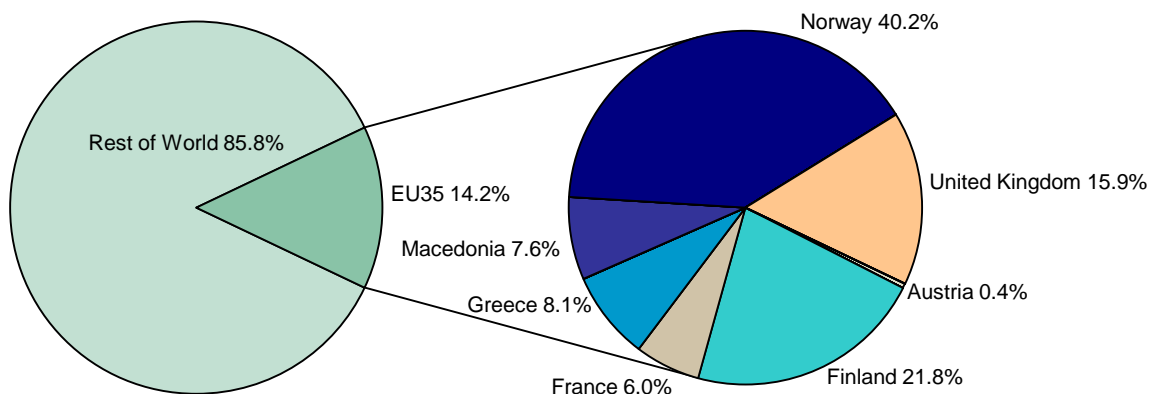
tonnes (metal content)

Country	2007	2008	2009	2010	2011
Finland	3 600	6 200	1 600	12 100	19 100
Greece	21 200	18 600	9 600	16 100	21 700
Macedonia	15 000	15 000	12 000	14 200	25 600
Norway	378	377	336	348	339
Spain	6 630	8 136	8 029	6 296	—
Turkey	* 2 000	* 1 500	1 199	* 1 900	* 4 300
EU35 Total	48 808	49 813	32 764	50 944	71 039

EU35 Mine production of nickel 2007 - 11



EU35 Smelter/refinery production of nickel 2011



Smelter/refinery production of nickel

tonnes

Country	2007	2008	2009	2010	2011
Austria	900	500	700	1 000	1 000
Finland	55 000	51 963	41 556	49 772	49 823
France	14 800	13 700	13 900	14 400	13 700
Greece	18 668	16 640	8 269	13 960	18 530
Macedonia	15 300	15 000	12 000	14 400	17 292
Norway	87 600	88 700	88 577	92 185	92 000
Serbia	1 000	—	—	—	—
United Kingdom	34 050	40 800	17 800	28 900	36 300
EU35 Total	227 318	227 303	182 802	214 617	228 645

Note

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

EU35 Smelter/refinery production of nickel 2007 - 11



Exports of nickel

Country	2007	2008	2009	2010	2011
Austria					
Scrap	2 208	1 910	1 775	1 606	2 709
Unwrought (a)	333	225	265	208	234
Belgium					
Mattes, sinters etc	68	115	921	697	2 380
Ores and concentrates	1 423	2 750	1 212	724	1 161
Scrap	4 954	2 872	6 883	3 443	7 430
Unwrought	15 642	13 298	11 883	9 271	9 684
Unwrought alloys	2 401	2 152	2 479	1 357	1 838
Oxides	476	1 196	834	221	910
Bulgaria					
Scrap	20	48	364	1 220	2
Czech Republic					
Scrap	1 245	601	2 420	4 558	3 427
Unwrought (a)	171	758	228	126	272
Oxides	617	643	275	341	338
Denmark					
Scrap	482	642	1 063	1 765	1 244
Estonia					
Scrap	1 260	1 680	89	0	536
Finland					
Scrap	441	27	1 511	323	33
Ores and concentrates	—	14 069	—	8 946	23 411
Unwrought	(a) 43 428	40 108	37 202	(a) 31 275	(a) 39 472
Oxides (b)	* 600	* 500	* 200	* 500	* 200
France					
Mattes, sinters etc	517	178	68	315	1 306
Scrap	7 578	7 558	11 435	30 601	11 685
Unwrought	12 308	10 754	12 095	9 376	10 997
Unwrought alloys	1 475	2 475	1 377	1 307	1 875
Germany					
Mattes, sinters etc	18 473	20 202	8 687	13 981	15 998
Ores and concentrates	2 520	316	1 619	2 673	299
Scrap	7 383	5 646	8 227	9 563	8 600
Unwrought	4 256	5 200	2 617	3 751	4 184
Unwrought alloys	9 664	8 988	3 083	1 866	4 423
Greece					
Ores and concentrates	150	231	144 529	20 284	120
Hungary					
Scrap	40	81	203	170	126
Ireland, Republic of					
Scrap	556	236	220	557	269
Italy					
Scrap	724	658	541	3 537	627
Unwrought (a)	1 272	972	1 293	2 408	2 097
Latvia					
Scrap	49	199	3 301	3 108	2 284
Unwrought alloys	...	2	165	112	116
Lithuania					
Scrap	232	131	85	76	46
Macedonia					
Ores and concentrates	9 328	...	0	60 181	25 579
Netherlands					
Mattes, sinters etc (b)	* 6 500	* 2 400	* 2 900	* 1 800	* 2 400
Scrap	4 456	4 614	1 711	1 956	1 793
Unwrought (a)	80	117	105	165	49 681
Norway					
Scrap	1 185	394	274	1 042	582
Ores and concentrates	5 379	8 093	2 464	4 818	7 598
Unwrought	88 628	88 940	88 080	91 813	92 705
Poland					
Mattes, sinters etc	...	...	1 443	1 134	—
Scrap	268	647	260	416	749
Unwrought (a)	466	334	172	1 876	252
Oxides	558	759	260	38	29

Nickel

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Romania					
Scrap	90	1 397	1 089	816	561
Slovakia					
Scrap	116	1 061	140	295	1 368
Unwrought	72	259	201	68	84
Slovenia					
Unwrought (a)	232	268	117	1 544	520
Spain					
Scrap	227	226	875	366	376
Ores and concentrates	65 853	127 812	102 105	93 536	26 597
Unwrought (a)	767	600	573	738	400
Sweden					
Scrap	5 344	1 513	1 376	1 022	1 137
Unwrought (a)	390	288	522	497	599
Oxides	457	511	363	534	516
Switzerland					
Scrap	1 750	1 603	1 519	1 090	909
Unwrought (a)	113	94	53	173	130
Turkey					
Ores and concentrates	175 712	130 179	99 700	172 682	378 350
Scrap	79	734	470	519	841
Unwrought (a)	—	232	141	292	96
United Kingdom					
Mattes, sinters etc	40	26	107	389	157
Ores and concentrates	46	61	182	54	51
Scrap	16 872	18 229	12 693	19 361	17 405
Unwrought	24 147	26 235	15 834	18 639	28 994
Unwrought alloys	4 375	4 378	4 753	4 530	6 025
Oxides	8	19	8	2	2

Notes

- (1) In this table the term 'unwrought' nickel corresponds to item 7502 of the Harmonised System which excludes all electroplating anodes
(2) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

Imports of nickel

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Scrap	605	1 164	367	440	527
Unwrought (a)	7 874	10 511	4 142	6 894	9 231
Belgium					
Mattes, sinters etc	1 194	1 250	499	330	598
Scrap	9 946	566	288	918	1 553
Unwrought	37 466	29 492	12 037	15 052	19 170
Unwrought alloys	403	723	1 915	469	574
Oxides	241	618	565	700	1 033
Bulgaria					
Unwrought (a)	195	204	90	125	201
Czech Republic					
Scrap	294	473	1 468	1 257	178
Unwrought (a)	4 429	3 728	2 179	2 223	3 750
Oxides	919	838	319	393	399
Denmark					
Scrap	529	100	122	382	234
Estonia					
Scrap	803	129	—	—	10
Unwrought	(a) 350	(a) 34	(a) 15	(a) 27	47

Imports continued

Country	2007	2008	2009	2010	2011
Finland					
Mattes, sinters etc	50 856	33 247	22 715	33 986	35 284
Scrap	299	481	149	17	40
Ores and concentrates	256 932	290 914	185 202	217 164	276 892
Unwrought	15 455	18 187	9 192	14 558	9 946
Unwrought alloys	2	14	792	17 649	2 688
France					
Mattes, sinters etc	19 864	18 952	20 015	19 921	19 954
Ores and concentrates	1 131	413	1 783	265	37
Scrap	1 341	2 166	1 265	2 164	2 988
Unwrought	25 752	23 368	10 909	13 964	21 693
Unwrought alloys	7 702	9 386	5 364	5 029	7 345
Oxides	542	560	310	524	412
Germany					
Mattes, sinters etc	1 911	797	561	849	2 048
Scrap	19 799	18 316	8 259	8 584	11 924
Ores and concentrates	1 532	1 310	1 087	1 667	1 184
Unwrought	74 083	68 767	42 201	69 282	68 023
Unwrought alloys	2 531	6 102	3 839	8 023	11 778
Oxides	593	617	463	621	476
Hungary					
Unwrought (a)	116	69	219	346	35
Ireland, Republic of					
Unwrought (a)	97	1 118	626	1 503	1 748
Italy					
Scrap	1 372	892	763	1 063	656
Unwrought	41 802	42 339	25 833	39 586	38 075
Unwrought alloys	1 613	2 164	2 841	1 171	1 314
Macedonia					
Ores and concentrates	863 999	789 929	985 925	1 210 300	1 393 490
Netherlands					
Ores and concentrates	15	11	* 220	5 940	9 544
Scrap	14 008	12 647	4 666	21 724	4 607
Unwrought	...	...	...	...	230 179
Unwrought alloys	204	1 227	227	638	3 548
Oxides (b)	* 20	* 30	* 70	* 50	* 70
Norway					
Mattes, sinters etc	165 628	178 502	153 437	170 365	199 173
Unwrought (a)	215	201	199	235	246
Poland					
Mattes, sinters etc	38	...	1 468	1 223	7
Scrap	4 897	3 683	2 122	341	603
Unwrought (a)	2 344	3 398	1 353	3 350	2 722
Portugal					
Unwrought	(a) 450	524	316	312	221
Romania					
Unwrought (a)	528	338	288	456	224
Serbia					
Unwrought	184	174	116	143	107
Slovakia					
Scrap	4	11	—	52	312
Unwrought (a)	139	190	120	112	617
Slovenia					
Unwrought (a)	967	2 686	2 020	2 967	3 230
Spain					
Ores and concentrates	42 232	1	5	5	1
Scrap	250	120	236	151	806
Unwrought	21 202	22 668	12 290	16 468	17 567
Unwrought alloys	1 426	1 547	821	1 125	966
Oxides	94	151	50	329	323
Sweden					
Mattes, sinters etc	4 252	1 490	1 607	1 239	1 723
Scrap	9 118	12 215	8 709	10 491	10 332
Unwrought	25 303	25 474	16 544	23 375	23 191
Unwrought alloys	356	1 317	661	397	216

Nickel

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Switzerland					
Unwrought (a)	1 787	2 054	1 202	1 370	1 199
Turkey					
Unwrought (a)	3 710	4 038	2 711	3 391	4 047
United Kingdom					
Mattes, sinters etc	62 637	63 553	25 929	50 263	58 519
Ores and concentrates	663	241	150	16	1
Scrap	10 376	10 291	9 593	8 154	6 741
Unwrought	21 044	16 888	8 003	14 200	12 707
Unwrought alloys	2 947	3 210	3 596	3 310	4 644
Oxides	49	13	1	6	5

Notes

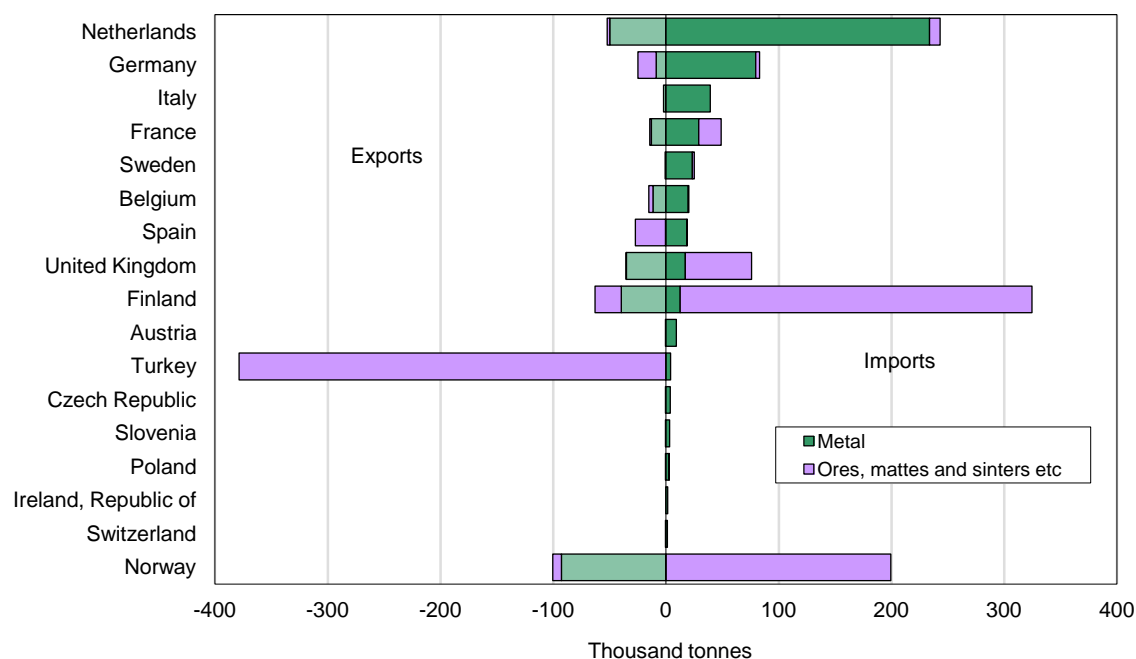
(1) In this table the term 'unwrought' nickel corresponds to item 7502 of the Harmonised System which excludes all electroplating anodes

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

(a) Including alloys

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

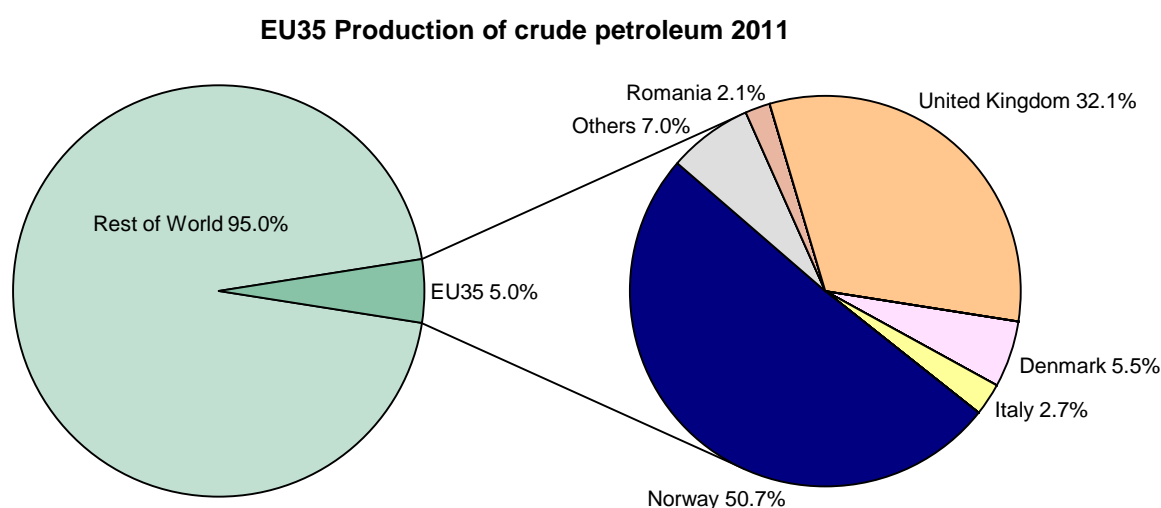
Nickel - EU35 trade in 2011



Crude petroleum

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

Saudi Arabia was the world's largest producer in 2011, with 13 per cent of the total world output. The second largest was Russia (also with 13 per cent), followed by USA (nine per cent), Iran and China (five per cent each).



Production of crude petroleum

tonnes

Country	2007	2008	2009	2010	2011
Austria	853 548	861 639	905 031	875 969	838 052
Bulgaria	25 700	23 000	23 800	22 400	21 400
Croatia	911 207	867 027	807 424	748 791	691 197
Czech Republic	240 000	236 000	217 000	173 000	163 000
Denmark	15 552 000	14 338 000	13 045 000	12 090 000	10 908 900
Estonia (a)	1 901 600	1 869 500	1 733 000	2 080 000	2 173 132
France	1 013 000	975 000	899 000	* 800 000	* 800 000
Germany	3 415 374	3 053 998	2 800 063	2 511 174	2 677 136
Greece	80 000	66 000	87 000	86 000	87 126
Hungary	838 672	811 000	796 000	790 000	696 453
Italy	5 800 000	5 200 000	4 600 000	5 100 000	5 280 000
Lithuania	154 449	127 658	114 956	114 464	113 895
Netherlands	2 576 222	2 163 000	1 704 000	1 414 000	1 464 000
Norway	125 763 000	121 101 700	115 000 000	105 042 000	100 289 000
Poland	720 603	754 907	686 992	686 487	614 704
Romania	4 837 000	4 528 000	4 388 940	4 172 411	4 081 979
Serbia	639 089	636 383	663 005	865 499	1 020 490
Slovakia	23 000	21 000	19 000	16 000	18 000
Slovenia	344	174	138	233	263
Spain	142 879	127 542	106 817	121 528	99 926
Turkey	2 131 288	2 222 594	2 489 914	2 602 114	2 383 000
United Kingdom	70 357 000	66 745 000	64 001 000	58 988 000	63 498 000
EU35 Total	237 975 975	226 729 122	215 088 080	199 300 070	197 919 653

Notes

(1) The figures shown in this table exclude natural gasoline

(a) From oil shale

EU35 Production of crude petroleum 2007 - 11



Exports of crude petroleum

tonnes

Country	2007	2008	2009	2010	2011
Belgium	2 422 211	2 496 349	2 390 390	2 593 653	2 278 613
Czech Republic	16 573	18 130	21 600	18 239	18 685
Denmark	9 493 573	8 593 198	8 520 980	7 363 518	6 899 354
France	190	65	1 689	161 761	467 914
Germany	196 926	40 011	265 799	180 515	283 784
Ireland, Republic of	55 635	—	11	96	46 629
Italy	1 442 498	1 195 500	619 630	423 777	713 237
Latvia	—	...	93	524	42 208
Lithuania	155 416	128 838	113 172	110 597	80 025
Netherlands	207 858	328 795	184 860	340 357	81 621
Norway	99 245 180	91 299 591	87 982 743	79 030 886	70 031 846
Poland	287 684	34 871	17 227	3	186 730
Slovakia	22 172	18 159	14 932	13 048	15 359
Spain (a)	* 2 400	* 24 000	* 400	* 164 000	* 300
Turkey (a)	* 3 584 000	* 4 115 000	* 2 956 000	* 1 139 000	* 702 000
United Kingdom	47 058 702	43 354 245	43 550 953	41 591 305	34 304 184

Note

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

Imports of crude petroleum

tonnes

Country	2007	2008	2009	2010	2011
Austria	7 645 010	7 945 639	7 428 183	6 770 069	7 358 582
Belgium	34 847 065	35 556 835	32 376 828	35 234 358	34 059 177
Bulgaria	7 162 499	7 262 658	5 770 397	5 355 541	4 999 511
Croatia	4 285 565	3 476 266	4 044 874	3 517 452	2 838 313
Czech Republic	7 179 766	8 141 759	7 451 765	7 770 418	6 968 871
Denmark	2 136 643	2 240 240	3 320 486	2 562 669	2 625 412
Estonia	18 375	1 425	1	2	3
Finland	12 221 330	11 908 304	11 516 562	11 211 580	11 504 505
France	81 011 061	81 854 226	70 343 956	59 946 970	62 875 826
Germany	105 162 534	105 835 665	97 648 203	91 239 711	87 338 296
Greece	16 938 841	6 422 841	2 437 424	19 064 118	13 010 825
Hungary	6 064 641	(a)* 6 959 000	(a)* 6 241 000	5 310 899	5 935 772
Ireland, Republic of	3 595 537	2 878 397	2 792 968	2 931 391	2 720 968
Italy	89 130 022	82 998 642	76 301 866	76 729 305	72 173 373

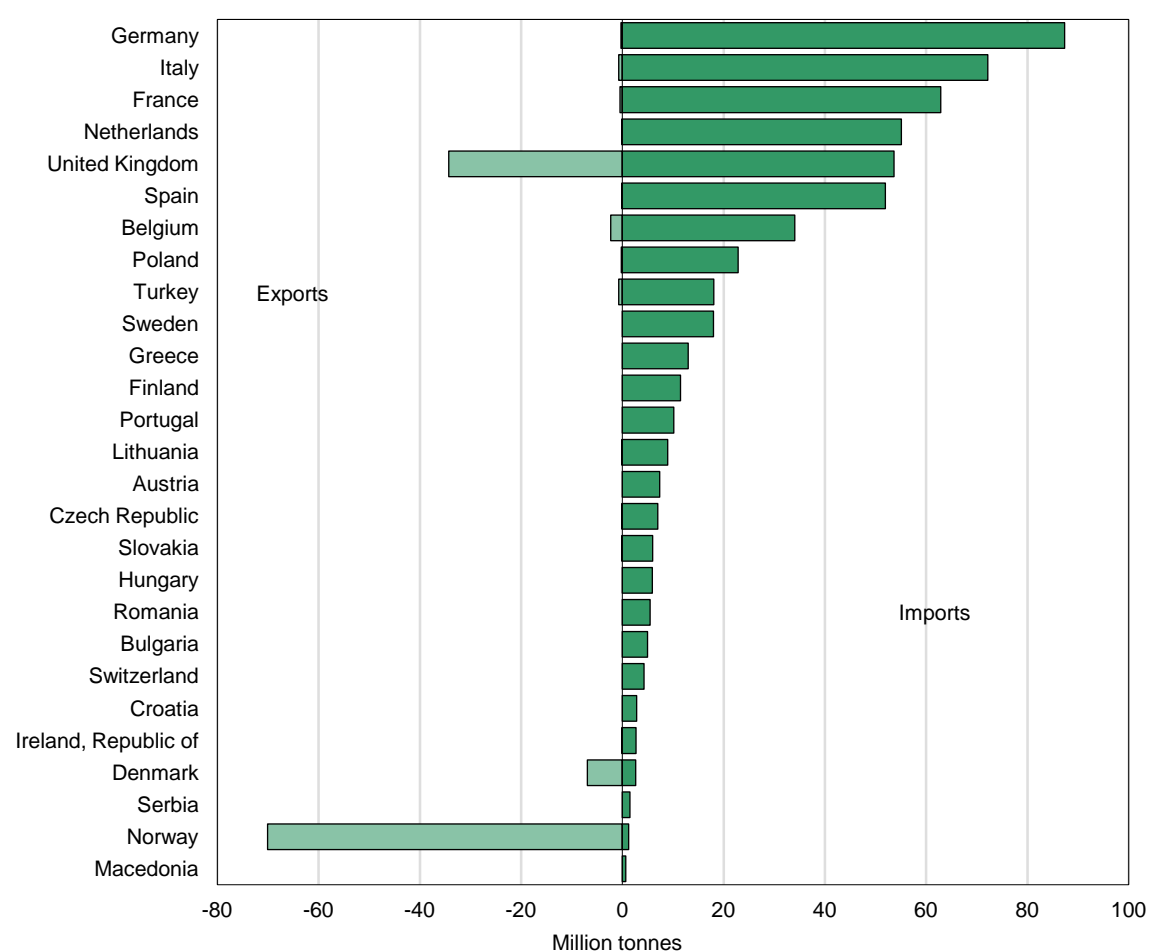
Imports continued

Country	2007	2008	2009	2010	2011
Lithuania	4 869 858	9 325 904	8 413 067	9 018 334	8 943 996
Macedonia	1 063 614	1 057 671	992 672	...	685 090
Netherlands	57 027 374	58 484 561	35 086 584	60 408 191	55 108 848
Norway	1 446 918	828 709	1 225 514	1 508 241	1 238 531
Poland	20 778 118	20 949 949	19 959 321	22 009 801	22 870 416
Portugal	12 386 104	12 050 226	10 193 366	11 251 958	10 152 747
Romania	8 533 821	8 419 364	6 893 956	5 821 640	5 451 662
Serbia	2 586 011	2 585 294	2 280 658	1 869 881	1 497 415
Slovakia	6 141 203	5 778 688	5 787 725	5 555 541	5 988 119
Spain	57 773 847	59 444 410	52 331 324	52 714 224	51 960 524
Sweden	17 719 046	19 184 387	16 818 080	18 236 284	17 988 419
Switzerland	4 595 181	5 141 634	4 755 189	4 534 930	4 302 674
Turkey	23 445 764	21 833 471	14 219 427	16 873 392	18 049 163
United Kingdom	44 129 689	52 103 843	50 656 965	50 447 008	53 647 056

Note

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

Crude petroleum - EU35 trade in 2011

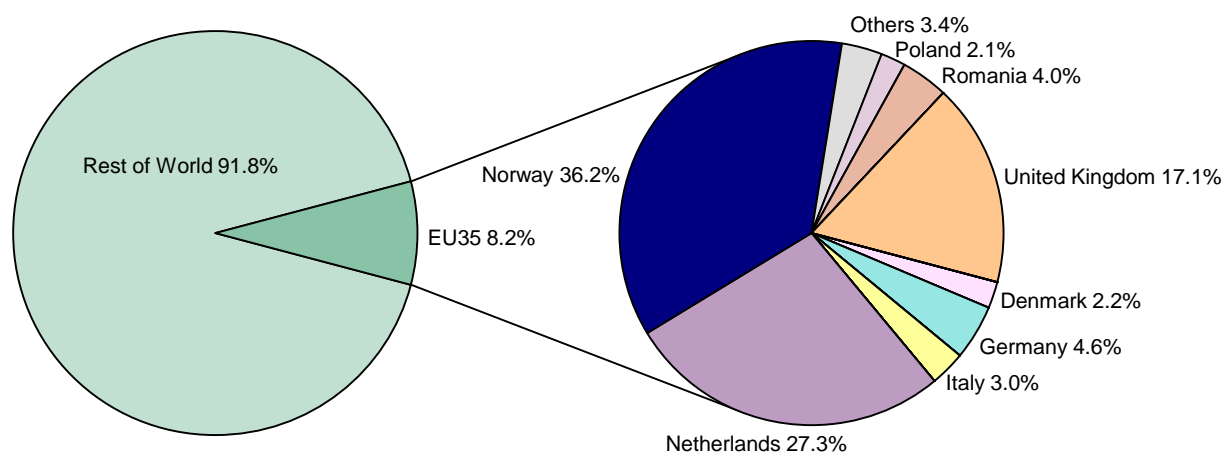


Natural gas

Natural gas is an increasingly important fundamental energy resource. It is used chiefly as a fuel but also a basic feedstock for chemicals such as propane and butane, and in the manufacture of ammonia and fertilisers. It is transported either by pipeline, often over transcontinental distances, or by ships in the form of liquefied natural gas (LNG).

Russia was the world's largest producer in 2011, with 20 per cent of the total world output. The second largest was USA (19 per cent), followed by Iran, Qatar and Canada (with four per cent each).

EU35 Production of natural gas 2011



Production of natural gas

million m³

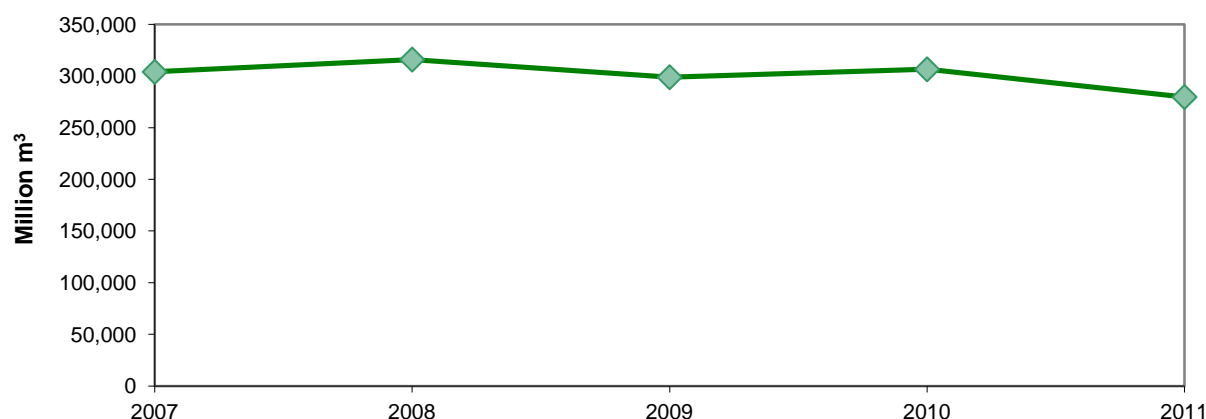
Country	2007	2008	2009	2010	2011
Austria	1 835	1 544	1 559	1 713	1 591
Bulgaria	295	218	15	74	443
Croatia	2 892	2 729	2 591	2 727	2 471
Czech Republic	148	168	180	201	187
Denmark	8 757	9 562	7 980	7 792	6 263
France	1 023	925	813	* 800	* 800
Germany	18 075	16 547	15 554	13 666	12 952
Greece	21	14	11	* 10	* 10
Hungary	2 653	2 703	2 748	2 600	2 315
Ireland, Republic of (a)	519	506	414	402	361
Italy	9 700	9 300	7 900	7 600	8 340
Netherlands	72 431	79 325	74 659	83 944	76 431
Norway	89 700	99 200	103 500	107 250	101 376
Poland	5 653	5 382	5 537	5 666	5 825
Romania	11 981	11 520	11 273	11 138	11 164
Serbia	274	282	279	423	448
Slovakia	195	111	114	106	106
Slovenia	3	3	3	7	2
Spain	42	46	19	58	44
Turkey	839	894	660	626	756
United Kingdom	76 970	74 937	63 022	59 674	47 790
EU35 Total	304 007	315 916	298 831	306 477	279 675

Notes

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

(a) Sales

EU25 Production of natural gas 2007 - 11



Exports of natural gas

tonnes

Country	2007	2008	2009	2010	2011
Austria	2 688 210	2 812 303	2 164 960	2 645 056	2 945 349
Belgium	20 807 227	59 248 950	7 659 165	11 792 847	23 022 897
Croatia	540 782	457 192	570 296	347 567	180 323
Czech Republic	—	—	834 462	1 318 872	1 115 748
Denmark	3 786 580	4 023 305	2 906 339	(a)* 1 044 000	(a)* 836 000
Finland	1 218	1 420	4 557	9 052	4 729
France	10 247 611	22 087 224	3 469 724	2 908 272	8 017 462
Germany (a)	* 17 703 000	* 19 648 000	* 11 354 000	* 14 165 000	* 13 906 000
Hungary	127 853	—	323 537	—	—
Ireland, Republic of	5 447	—	383	3	—
Italy	585 818	1 749 247	1 620 776	1 427 161	159 619
Norway	63 999 250	71 394 708	74 357 298	75 626 277	74 356 856
Portugal	—	890 688	254 997	389 309	875
Slovakia	124 820	112 328	334 205	1 153 269	1 439 467
Slovenia	34 212	24 368	3	—	—
Spain	31 159	—	61 433	200 027	555 012
Sweden	51	—	961	21	6 159
Turkey	5 392	412 655	665 247	590 182	(a)* 653 000
United Kingdom (b)	9 361 445	9 543 217	11 160 939	14 461 473	15 239 637

Notes

(1) This table includes both liquefied 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 using 85.985 tonnes of oil equivalent to 1 GWh. Source: Department of Energy and Climate Change

Imports of natural gas

tonnes

Country	2007	2008	2009	2010	2011
Austria	6 988 269	7 136 000	7 566 509	8 697 934	9 390 448
Belgium	11 194 656	11 419 294	14 431 349	14 144 704	13 250 074
Croatia	700 955	855 326	738 109	587 846	579 005
Czech Republic	5 478 515	6 264 909	7 080 247	7 471 522	7 175 884
Denmark	...	...	...	103 236	198 509
Estonia	726 823	717 831	477 844	491 806	478 288
Finland	5 822 601	6 028 908	—	3 252 037	3 543 126
France	75 216 254	79 101 617	32 440 935	41 624 014	50 897 525
Germany	75 980 087	78 201 702	78 990 573	82 784 241	87 762 701
Greece	3 789 666	4 186 746	3 086 243	3 520 510	4 233 660
Hungary	7 366 053	8 574 143	6 238 749	5 858 735	5 788 348
Ireland, Republic of	3 838 104	4 364 595	4 192 236	4 738 918	4 430 360
Italy	71 491 000	36 489 000	52 879 546	59 616 091	50 506 295
Latvia	1 158 965	1 138 776	1 047 240	1 160 668	1 099 045
Lithuania	2 414 798	2 246 642	1 761 529	2 048 906	2 385 268
Luxembourg	1 797	221 375	92 122	3 591	3 077
Macedonia	63 225	86 823	53 192	79 059	93 816
Netherlands (a)	* 10 072 000	* 17 228 000	* 9 512 000	* 11 044 000	* 12 153 000
Norway	118 063	442	231	4 393	1 005
Portugal	3 758 075	4 188 706	3 770 943	3 849 819	3 543 064
Romania	8 877 219	7 757 273	1 451 767	* 2 000 000	3 283 138
Serbia	1 453 564	1 548 551	1 046 465	1 346 955	1 362 390
Slovakia	4 249 360	4 640 012	4 820 301	5 765 254	5 747 975
Slovenia	807 877	750 581	748 930	828 674	736 641
Spain	27 048 984	32 044 466	28 024 572	27 795 263	27 529 122
Sweden	749 162	647 510	860 497	1 066 174	899 467
Switzerland	2 402 267	2 596 153	2 450 414	2 759 930	2 521 494
United Kingdom (b)	27 836 698	33 996 147	38 563 499	49 981 718	49 695 891

Notes

(1) This table includes both liquefied 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 using 85.985 GWh to 1 tonne of oil equivalent. Source: Department of Energy and Climate Change

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 was the world's largest producer in 2011, with 40 per cent of the total world output. The second largest was USA (14 per cent), followed by Morocco (also with 14 per cent), Russia (five per cent) and Peru (four per cent).

Production of phosphate rock

tonnes

Country	2007	2008	2009	2010	2011
Finland	830 989	780 000	658 347	817 289	869 694

Exports of phosphate rock

tonnes

Country	2007	2008	2009	2010	2011
Belgium	115 628	84 619	15 792	30 744	62 021
Cyprus	...	2 960	...	—	...
Czech Republic	732	1 091	817	—	...
Finland	6 942	3 248	3 796	52 006	117 304
France (a)	* 20 000	* 22 000	* 22 000	* 18 000	* 19 000
Germany	168	314	137	489	1 641
Italy	7 800	7 661	6 416	10 751	16 139
Lithuania	2 011	140	—	—	—
Macedonia	2 050	1 685	1 233	1 056	651
Netherlands	106 235	120 214	11 807	138 239	166 704
Slovenia	109 350	164 848	56 973	153 182	164 440
Spain	7 840	4 754	1 565	1 888	10 985
Sweden	1 623	4 897	1 228	125	2 253
United Kingdom	504	759	514	615	573

Note

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

Imports of phosphate rock

tonnes

Country	2007	2008	2009	2010	2011
Austria	106 018	(a)* 158 000	(a)* 58 000	(a)* 160 000	61 030
Belgium	1 512 059	1 458 207	579 326	1 114 210	1 076 842
Bulgaria	462 247	534 734	309 564	455 539	570 288
Croatia	327 936	328 599	117 441	51 010	67 007
Czech Republic	33 954	20 928	543	9 917	13 163
Denmark	1 051	881	737	282	463
Finland	113 286	118 749	—	28 144	...
France	442 826	374 792	130 323	305 259	264 541
Germany	115 109	145 905	28 863	120 580	117 971
Greece	237 577	251 845	192 135	252 644	220 591
Hungary	2	41	37	45	1 028
Ireland, Republic of	6 028	3 425	85	5 328	264
Italy	249 847	248 005	89 245	231 808	243 718
Latvia	1 529	477	62	99	197
Lithuania	1 202 196	1 209 385	1 162 070	1 354 093	1 254 579
Netherlands	847 776	1 108 711	192 355	779 354	779 537
Norway	673 331	682 369	403 098	9 638	6 499

Phosphate rock

Imports continued

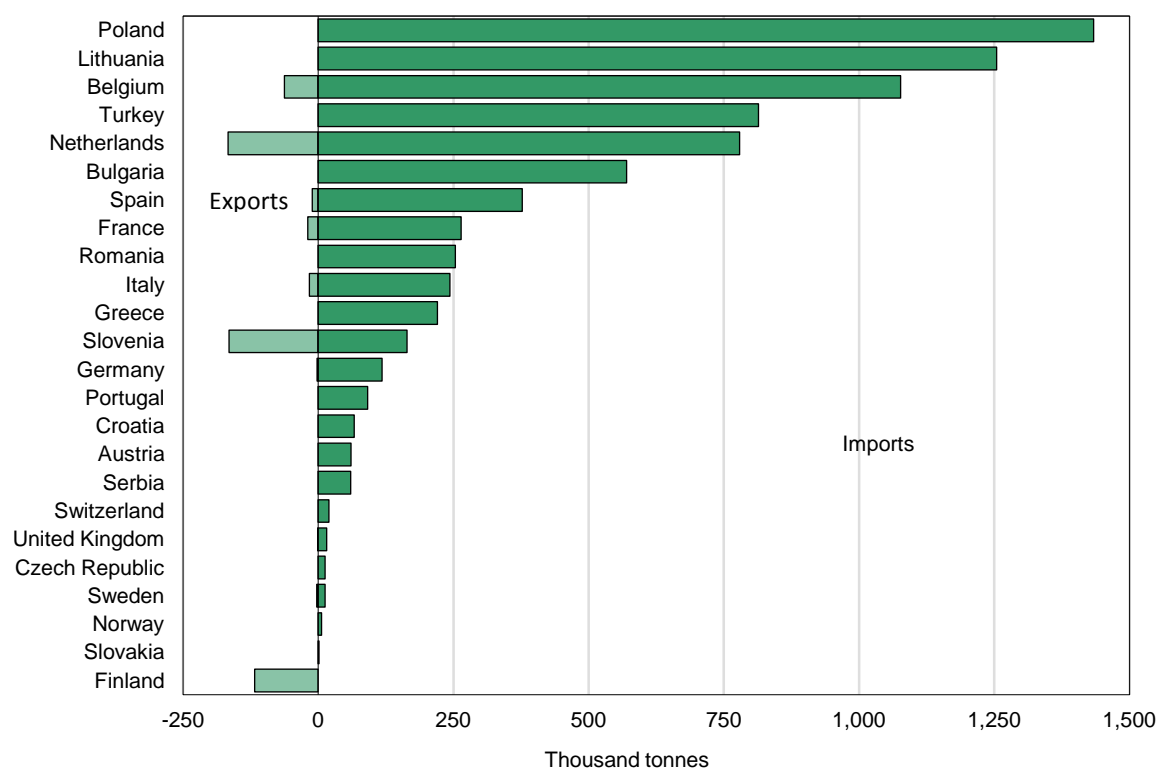
tonnes

Country	2007	2008	2009	2010	2011
Poland	1 689 120	1 448 780	458 923	1 299 106	1 434 124
Portugal	114 826	90 667	44 189	93 348	91 703
Romania	193 276	225 581	103 500	233 377	254 061
Serbia	102 505	102 441	3 974	20 394	60 024
Slovakia	267	251	258	1 688	1 662
Slovenia	109 768	164 872	56 969	153 160	164 442
Spain	1 653 874	1 611 494	438 755	1 017 820	377 348
Sweden	2 369	922	2 918	3 869	12 968
Switzerland	4 645	358	585	3 657	20 007
Turkey	782 996	741 190	707 595	686 966	814 382
United Kingdom	23 052	28 971	5 600	9 873	15 885

Note

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

Phosphate rock - EU35 trade in 2011



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.

South Africa was the world's largest producer of platinum in 2011, with 74 per cent of the total world output. The second largest was Russia (13 per cent), followed by Zimbabwe (five per cent), Canada (four per cent) and USA (two per cent).

Russia was the world's largest producer of palladium in 2011, with 47 per cent of the total world output. The second largest was South Africa (36 per cent), followed by Canada (six per cent), USA (five per cent) and Zimbabwe (four per cent).

South Africa was also the largest producer of other platinum group metals in 2011, with 92 per cent of the world's output. Other producers were Zimbabwe, Russia (with three per cent each) and Canada (one per cent).

Mine production of platinum group metals

kilograms (metal content)

Country	2007	2008	2009	2010	2011
Poland					
Platinum	30	30	30	30	* 30
Palladium	20	20	20	20	* 20
Serbia					
Platinum	2	—	12	—	* —
Palladium	15	70	38	22	25
EU35 Total	67	120	100	72	75

Exports of platinum group metals

kilograms

Country	2007	2008	2009	2010	2011
Austria					
Platinum and platinum metals	£30 801 000	£52 298 000	£38 485 000	£83 434 000	£110 119 000
Waste and scrap	£621 000	£621 000	£295 000	£1 070 000	£757 000
Belgium					
Platinum and platinum metals	5 800	8 400	10 700	7 500	8 900
Waste and scrap	592 300	649 800	315 200	497 000	218 400
Bulgaria					
Waste and scrap (a)	* 94 700	* 1 400	* 44 000	* 16 000	* 23 000
Croatia					
Waste and scrap	18 314	27 018	27 959	53 996	24 958
Czech Republic					
Platinum and platinum metals	(a)* 800	3 400	5 200	6 800	2 900
Waste and scrap	1 900	700	—	—	15 300
Denmark					
Platinum and platinum metals	48	1	7 000	200	100
Finland					
Platinum and platinum metals	19	30	34 126	6 238	6 684
Waste and scrap	463	218	267	723	75
France					
Platinum	4 758	2 033	1 140	1 884	2 566
Platinum metals	2 800	2 120	1 396	914	1 255
Waste and scrap	190 100	282 400	609 699	179 798	270 355
Germany					
Palladium	27 800	28 600	43 329	35 462	43 952
Platinum	28 100	27 700	36 204	24 597	24 994
Other platinum metals	22 300	24 700	65 029	33 299	28 158
Waste and scrap	3 399 700	3 238 800	3 352 271	5 997 852	6 960 588
Hungary					
Waste and scrap	89 200	...	...	92 300	91 200

Platinum metals

Exports continued

kilograms

Country	2007	2008	2009	2010	2011
Ireland, Republic of					
Waste and scrap	7 179	16 854	8 544	5 440	1 763
Italy					
Platinum	11 783	13 350	10 043	10 408	9 982
Platinum metals	5 828	8 295	8 898	12 684	14 436
Waste and scrap	94 988	257	311	634	37 750
Latvia					
Waste and scrap	219	181	—	—	...
Lithuania					
Waste and scrap	404	62 710	101 900	193 600	126 800
Luxembourg					
Platinum and platinum metals	4 700	5 800	2 500	...	—
Waste and scrap	...	...	24 700	5 600	16 000
Netherlands					
Platinum	£8 190 000	£18 207 000	£59 804 000	£14 634 000	£9 386 000
Platinum metals	£3 766 000	£10 385 000	£10 383 000	£7 953 000	£7 261 000
Waste and scrap	25 850	352 175	* 163 160	1 877	220
Norway					
Platinum and platinum metals	14 611	15 393	12 341	9 714	11 951
Waste and scrap	66 193	5 119	35 829	157 937	36 399
Poland					
Platinum and platinum metals	156	7 275	47 400	1 100	2 400
Waste and scrap	139	7 399	1 600	300	3 400
Portugal					
Waste and scrap	33 500	...	—	...	15 100
Slovakia					
Platinum and platinum metals	15	45 800	1 700	5 800	84 100
Slovenia					
Platinum and platinum metals	84	110	400	—	...
Spain					
Platinum and platinum metals	434	3 104	1 672	2 347	1 255
Waste and scrap	44	88 069	225 411	291 877	163 420
Sweden					
Platinum and platinum metals	£900 000	£851 000	£177 000	£429 000	£1 203 000
Waste and scrap	242 500	575 300	40 400	69 000	43 600
Switzerland					
Palladium	52 880	86 503	57 571	70 662	60 859
Platinum	57 569	69 404	61 433	72 006	63 853
Other platinum metals	636	717	192	464	494
Waste and scrap	393 326	616 867	362 419	314 061	289 174
Turkey					
Platinum and platinum metals	...	18	3 142	5 124	2 765
United Kingdom					
Palladium	56 994	47 142	53 091	42 864	50 917
Platinum	52 789	40 630	43 177	24 464	37 836
Other platinum metals	23 731	22 548	20 044	23 021	17 319
Waste and scrap	3 793 637	4 278 682	4 273 222	527 862	287 198

Notes

- (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 this volume regarding currency conversions
- (a) BGS estimates, based on known imports into certain countries

Imports of platinum group metals

kilograms

Country	2007	2008	2009	2010	2011
Austria					
Platinum and platinum metals	1 100	700	1 600	1 400	4 100
Waste and scrap	...	100	—	100	21 400
Belgium					
Platinum and platinum metals	500	300	1 200	1 000	400
Bulgaria					
Platinum and platinum metals	82 367	613	16	17	5
Cyprus					
Platinum and platinum metals (a)	* 700	* 400	...	* 900	* 400
Czech Republic					
Platinum	99	42 358	81 500	25 000	2 100
Platinum metals	477	47 932	600	17 700	100
Waste and scrap	913	4 414	772	7 835	54 300
Denmark					
Platinum and platinum metals	6 952	6 448	4 699	2 300	796
France					
Platinum	6 263	8 471	3 633	4 516	4 010
Platinum metals	3 631	4 404	5 348	3 006	...
Waste and scrap	114 300	241 200	359 138	143 885	296 178
Germany					
Platinum	51 500	47 100	42 452	40 983	38 019
Palladium	54 700	55 100	47 092	53 479	50 926
Other platinum metals	9 700	6 400	12 120	19 655	21 319
Waste and scrap	11 442 800	10 983 600	6 224 314	8 069 744	7 290 427
Greece					
Platinum and platinum metals	7 400	300	100	500	1 400
Hungary					
Platinum and platinum metals	126	453	26	1 300	84
Iceland					
Platinum and platinum metals	960	162	158	117	216
Ireland, Republic of					
Platinum and platinum metals	10 425	2 185	121 381	9 470	3 631
Italy					
Platinum	20 491	16 570	13 627	12 545	10 630
Palladium	18 880	20 593	13 047	10 019	9 171
Other platinum metals	1 811	2 426	1 909	1 694	1 084
Waste and scrap	447	7 646	8 178	16 918	1 468
Latvia					
Waste and scrap	1 842	2 842	(a)* 3 900	(a)* 400	...
Lithuania					
Waste and scrap	65 900	40 800	22 700	76 400	64 600
Luxembourg					
Platinum and platinum metals	9 322	1 410	1 702	1 633	0
Netherlands					
Platinum	£22 785 000	£89 137 000	£78 613 000	£25 740 000	£73 911 000
Platinum metals	£7 722 000	£8 219 000	£11 659 000	£13 014 000	£54 486 000
Waste and scrap	12	40	111	260 515	411 332
Norway					
Platinum and platinum metals	1 057	1 072	1 005	1 425	1 430
Waste and scrap	846	1 093	930	1 362	1 160
Poland					
Platinum and platinum metals	16 400	16 900	31 300	5 100	2 700
Portugal					
Platinum and platinum metals	57	308	146	796	100
Slovakia					
Platinum	348 975	1 573 351	1 533 869	1 625 761	2 662 700
Palladium	35	58	1 191	2 702	4 400
Spain					
Platinum and platinum metals (a)	* 4 500	* 3 900	* 3 000	* 3 500	* 3 000
Waste and scrap	4 111	8 947	29 448	29 183	17 845
Sweden					
Platinum and platinum metals	£6 109 000	£8 722 000	£5 934 000	£7 551 000	£8 430 000
Waste and scrap	731 700	13 800	80 200	1 500	19 800

Platinum metals

Imports continued

kilograms

Country	2007	2008	2009	2010	2011
Switzerland					
Platinum	43 113	67 022	91 048	49 089	57 415
Palladium	46 744	60 666	50 258	41 454	43 310
Other platinum metals	913	1 255	1 319	813	873
Waste and scrap	267 258	494 962	688 973	912 680	459 360
Turkey					
Platinum and platinum metals	316	463	235	200	213
United Kingdom					
Platinum	26 015	29 943	30 339	58 659	46 092
Palladium	42 395	32 806	36 652	73 184	42 167
Other platinum metals	6 507	5 409	6 713	9 487	7 768
Waste and scrap	1 456 413	1 416 905	1 100 117	819 769	1 556 736

Notes

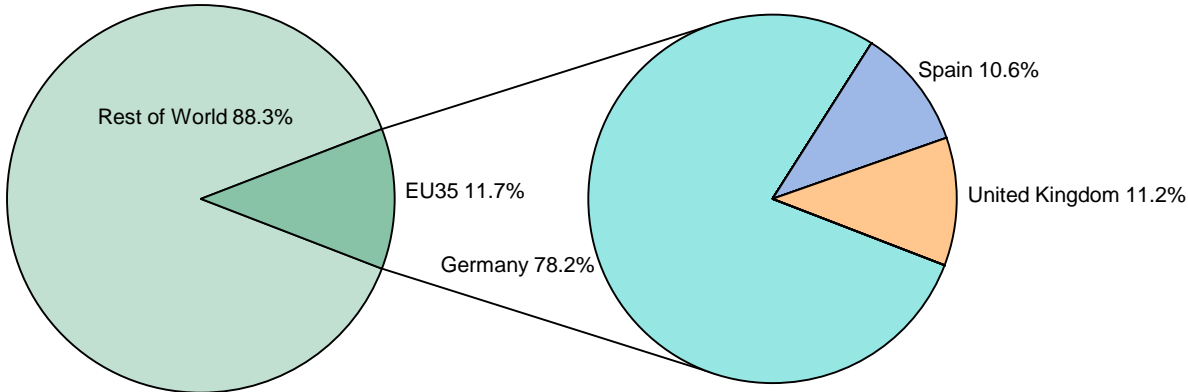
- (1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys
 - (2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
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-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

Canada was the world's largest producer in 2011, with 31 per cent of the total world output. The second largest was Russia (19 per cent), followed by Belarus (15 per cent), Germany (nine per cent) and China (seven per cent).

EU35 Production of potash 2011

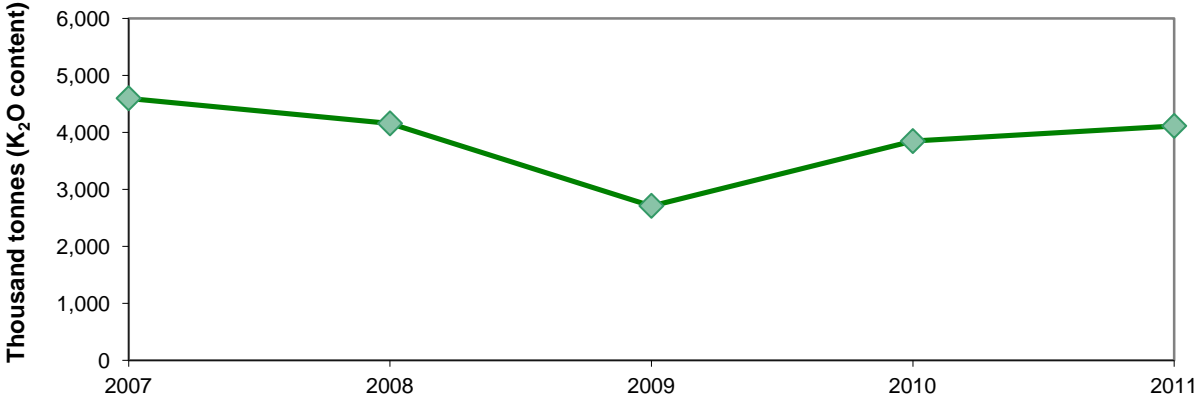


Production of potash

tonnes (K₂O content)

Country	2007	2008	2009	2010	2011
Germany					
Potassic salts	3 636 504	3 280 467	1 825 139	3 023 941	3 214 696
Spain					
Chloride	531 739	472 952	481 455	418 778	436 026
United Kingdom					
Chloride	430 000	403 800	* 403 800	* 403 800	* 462 000
EU35 Total	4 598 243	4 157 219	2 710 394	3 846 519	4 112 722

EU35 Production of potash 2007 - 11



Potash

Exports of potash

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Potassic fertilisers	13 595	14 613	13 843	20 259	19 304
Belgium					
Chloride	58 108	10 631	58 784	64 018	100 097
Czech Republic					
Potassic fertilisers	3 096	3 322	6 843	4 235	4 780
Denmark					
Chloride	127	45	59	69	2 123
Other potassic fertilisers	136	374	504	683	8 898
Finland					
Sulphate	49 485	17 181	45 818	53 850	* 61 000
Chloride	50 342	50 822	26	178	195
France					
Sulphate	33 446	34 777	18 248	17 085	25 238
Chloride	8 166	11 416	9 858	36 215	15 947
Other potassic fertilisers	278	327	414	1 788	2 772
Germany					
Potassic fertilisers (a)(c)	3 636 504	3 280 467	1 825 139	3 023 941	3 214 696
Greece					
Potassic fertilisers	1 217	1 648	1 369	1 294	431
Hungary					
Potassic fertilisers	3 474	7 891	9 916	5 697	5 805
Italy					
Potassic fertilisers	5 572	6 345	12 725	13 629	8 702
Latvia					
Chloride	250	970	0	39	28
Lithuania					
Potassic fertilisers	5 752	2 846	18 714	6 517	4 256
Luxembourg					
Chloride	231	778	98	330	190
Netherlands					
Sulphate	7 918	1 424	4 431	7 854	45 711
Chloride	170 921	147 436	133 012	174 453	22 746
Other potassic fertilisers	1 162	1 341	2 680	15 619	45 766
Norway					
Chloride	1 285	—	—	...	...
Poland					
Potassic fertilisers	2 202	9 222	13 279	10 687	10 078
Portugal					
Potassic fertilisers	80	240	402	612	895
Serbia					
Potassic fertilisers	856	245	163	690	3 672
Slovakia					
Potassic fertilisers	1 407	434	74	51	580
Spain					
Sulphate	1 795	1 251	2 540	6 474	3 713
Chloride	163 891	360 538	319 549	609 607	688 599
Other potassic fertilisers	998	1 895	1 352	2 365	2 385
Sweden					
Sulphate	84 414	53 883	59 252	93 796	84 381
Turkey					
Potassic fertilisers	488	3 544	6 438	6 533	6 504
United Kingdom					
Sulphate	163	93	443	71	108
Chloride (b)	* 220 600	* 244 300	* 205 600	* 339 000	* 429 000
Other potassic fertilisers	399	562	228	420	5 283

Notes

(a) K₂O content

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

(c) Including sulphate, chloride and other potassic fertilisers

Imports of potash

Country	2007	2008	2009	2010	2011
Austria					
Sulphate	13 026	10 432	4 241	15 074	9 595
Chloride	123 747	119 347	28 000	105 299	102 028
Other potassic fertilisers	26 199	25 862	9 139	18 201	9 418
Belgium					
Sulphate	128 173	175 205	73 074	129 152	120 335
Chloride	912 264	912 154	428 365	1 173 213	1 259 385
Other potassic fertilisers	10 275	10 125	7 668	13 668	13 771
Bulgaria					
Potassic fertilisers	4 845	4 633	1 970	7 985	3 210
Croatia					
Chloride	159 288	157 994	10 538	132 471	102 879
Other potassic fertilisers	3 564	2 958	1 091	1 749	3 717
Czech Republic					
Chloride	32 745	28 052	36 125	82 710	87 248
Other potassic fertilisers	4 215	5 025	2 430	4 773	3 410
Denmark					
Sulphate	6 077	1 878	1 019	1 910	9 335
Chloride	34 292	47 885	4 917	36 608	42 472
Other potassic fertilisers	13 742	24 438	11 052	14 967	8 473
Estonia					
Chloride	7 048	8 665	1	1 517	1 898
Finland					
Chloride (a)	163 600	164 400	84 600	194 800	211 100
Other potassic fertilisers	663	184	74	117	4 602
France					
Sulphate	58 088	53 124	12 477	51 068	40 885
Chloride	900 560	837 119	242 713	626 635	597 658
Other potassic fertilisers	16 601	18 484	7 287	13 998	6 814
Germany					
Sulphate	17 108	11 801	13 194	20 786	22 490
Chloride	101 081	124 643	75 154	131 645	131 244
Other potassic fertilisers	1 344	2 503	633	8 065	11 726
Greece					
Sulphate	37 785	36 642	14 325	39 155	26 686
Chloride	22 518	28 144	20 773	35 176	27 276
Other potassic fertilisers	6 189	8 660	107	3 240	8 166
Hungary					
Chloride	168 692	181 373	38 441	90 063	98 351
Other potassic fertilisers	5 863	4 552	4 372	5 760	6 161
Ireland, Republic of					
Chloride	122 191	97 056	29 932	99 181	95 816
Other potassic fertilisers	1 785	4 347	3 390	7 570	2 011
Italy					
Sulphate	90 992	78 513	31 910	88 593	58 418
Chloride	396 162	346 465	144 086	367 465	287 984
Other potassic fertilisers	15 929	9 882	3 413	8 415	1 368
Latvia					
Chloride	8 875	10 845	—	6 414	3 468
Lithuania					
Sulphate	15 637	10 971	2 617	2 581	7 069
Chloride	138 895	107 749	6 631	32 552	35 602
Other potassic fertilisers	...	487	...	...	...
Luxembourg					
Potassic fertilisers	940	2 048	801	1 681	1 167
Netherlands					
Sulphate	21 211	17 393	28 984	21 982	56 536
Chloride	314 011	307 612	204 377	430 138	756 966
Other potassic fertilisers	6 691	3 899	3 466	1 542	26 231
Norway					
Sulphate	241 918	190 757	123 549	(b)* 99 000	(b)* 65 000
Chloride	349 459	349 459	199 385	(b)* 377 000	(b)* 354 000
Other potassic fertilisers	659	674	509	612	287

Potash

Imports continued

tonnes

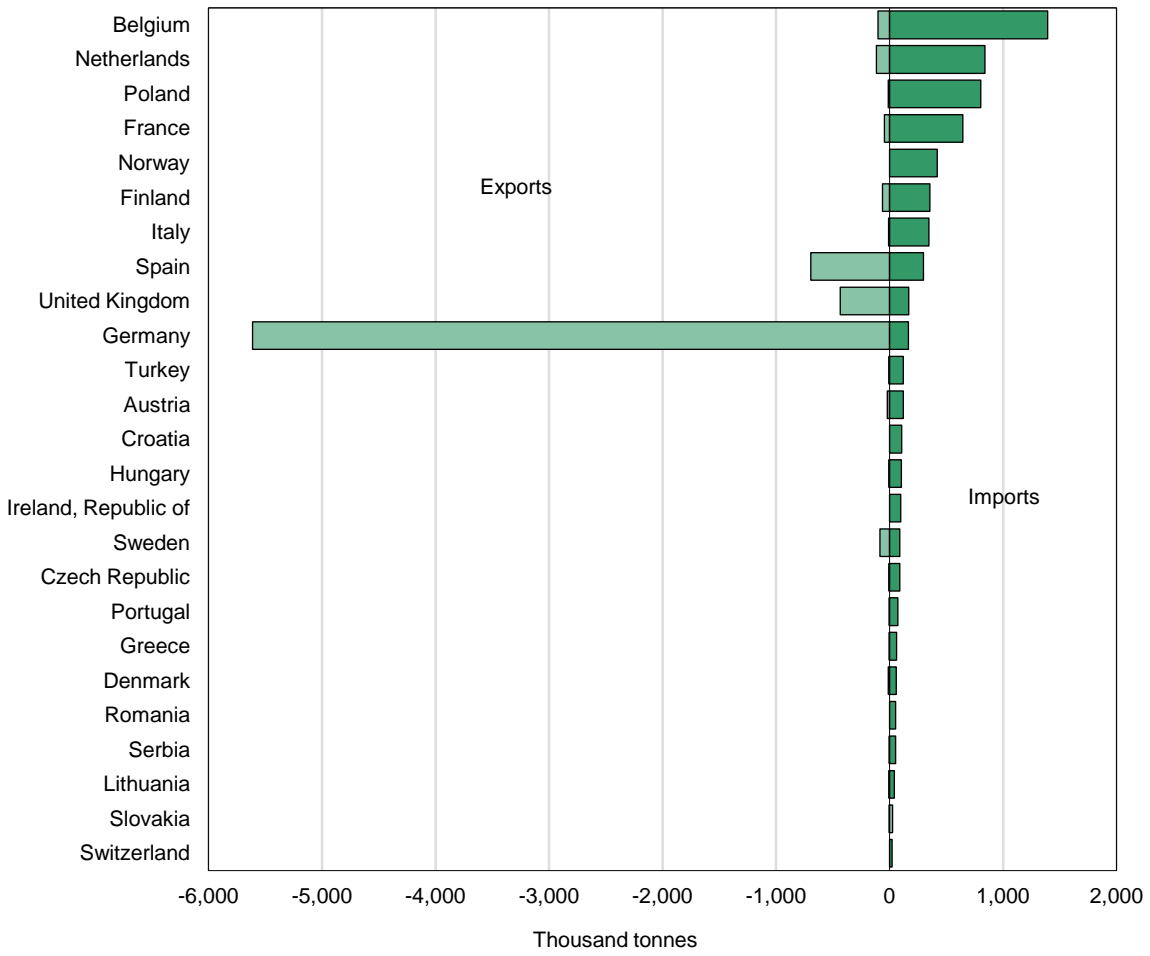
Country	2007	2008	2009	2010	2011
Poland					
Sulphate	20 242	19 161	10 919	19 155	23 281
Chloride	992 979	815 282	194 900	757 987	769 256
Other potassic fertilisers	4 659	7 143	3 470	4 442	10 317
Portugal					
Sulphate	4 223	1 869	1 574	3 840	4 405
Chloride	51 600	38 200	25 525	50 687	65 352
Other potassic fertilisers	1 629	1 708	5 389	1 899	2 596
Romania					
Sulphate	4 086	5 133	19 592	13 726	6 936
Chloride	50 558	68 877	5 119	56 922	46 842
Other potassic fertilisers	1 058	338	374	425	683
Serbia					
Sulphate	1 021	317	77	122	248
Chloride	102 223	109 734	10 710	71 906	53 113
Slovakia					
Chloride	29 828	29 496	4 597	22 561	24 631
Other potassic fertilisers	2 601	2 366	689	2 913	2 260
Spain					
Sulphate	5 547	40 911	21 022	40 507	39 133
Chloride	199 403	194 656	71 444	211 595	257 920
Other potassic fertilisers	25	3 548	3 721	1 607	1 283
Sweden					
Sulphate	1 004	2 872	965	1 789	2 551
Chloride	27 470	15 689	4 769	55 671	79 863
Other potassic fertilisers	4 886	4 735	4 211	5 858	9 276
Switzerland					
Sulphate	5 259	4 685	3 967	4 914	5 899
Chloride	19 279	15 158	7 595	16 865	14 730
Other potassic fertilisers	2 504	2 861	1 676	2 049	1 159
Turkey					
Sulphate	57 661	33 427	11 576	34 986	28 989
Chloride	96 038	82 412	50 634	82 923	93 471
Other potassic fertilisers	47	398	303	1 075	109
United Kingdom					
Sulphate	16 166	15 157	15 766	15 766	13 232
Chloride	202 623	165 331	80 842	270 096	153 141
Other potassic fertilisers	10 813	11 919	10 422	10 565	2 373

Notes

(a) K₂O content

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

Potash - EU35 trade in 2011



Rare earth elements

Rare earth elements (REE), for which the most commercially important minerals are bastnaesite and monazite, are a group of 17 metallic elements of which cerium, lanthanum and neodymium are used in the largest quantities. 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 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 the largest producer (96 per cent of the total world output in 2011). The second and third largest producers are Russia and Australia (with two per cent each), but minor amounts are also produced in Malaysia and Brazil.

Exports of rare earths

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metals	359	373	244	258	452
Cerium compounds	2 596	2 702	2 035	1 936	1 167
Other rare earth compounds	9 039	8 508	8 437	8 658	4 902
Belgium					
Metals	253	299	273	476	110
Rare earth compounds	802	408	335	332	265
Czech Republic					
Cerium compounds	6	3	3	3	2
Other rare earth compounds	6	5	0	3	...
Estonia					
Rare earth compounds	3 183	2 916	2 679	1 686	1 124
Finland					
Metals	104	...	—	—	...
Rare earth compounds	1	103	0	44	67
France					
Metals	11	11	3	8	11
Rare earth compounds	2 545	1 854	1 244	3 411	2 789
Ferro-cerium and other pyrophoric alloys	133	—	0	...	—
Germany					
Metals	8	3	19	25	29
Rare earth compounds	217	188	652	601	660
Ireland, Republic of					
Rare earth compounds	8	9	7	1	1
Italy					
Metals	177	112	78	101	145
Rare earth compounds	38	153	167	236	322
Lithuania					
Cerium compounds	4	3	8	12	10
Netherlands					
Metals	64	202	* 135	86	70
Rare earth compounds	77	131	* 150	177	327
Ferro-cerium and other pyrophoric alloys	4	19	44	49	18
Norway					
Metals	0	1	105	—	19
Other rare earth compounds	1	21	21	30	23
Poland					
Cerium compounds	15	8	4	7	86
Other rare earth compounds	33	22	—	4	66
Spain					
Metals	...	50	—	97	51
Cerium compounds	63	8	13	51	62
Other rare earth compounds	2	17	5	34	32
Switzerland					
Cerium compounds	2	1	1	2	9
Other rare earth compounds	3	1	26	1	1
Turkey					
Cerium compounds	...	27	8	5	10

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
United Kingdom					
Metals	143	237	54	46	272
Cerium compounds	37	73	105	182	149
Other rare earth compounds	1 089	622	459	614	347
Ferro-cerium and other pyrophoric alloys	80	7	6	37	48

Notes

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

Imports of rare earths

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metals	512	561	269	550	325
Cerium compounds	3 431	3 487	1 985	1 766	1 310
Other rare earth compounds	3 762	3 589	2 471	3 375	1 646
Belgium					
Metals	297	259	323	411	205
Cerium compounds	489	258	419	323	289
Other rare earth compounds	353	142	292	172	58
Ferro-cerium and other pyrophoric alloys	2	3	62	2	0
Cyprus					
Cerium compounds	0	0	0	24	0
Ferro-cerium and other pyrophoric alloys	0	0	...	18	...
Czech Republic					
Metals	3	0	0	13	35
Rare earth compounds	228	155	124	131	117
Ferro-cerium and other pyrophoric alloys	4	5	5	6	2
Denmark					
Cerium compounds	1	11	734	15	16
Other rare earth compounds	30	10	36	19	6
Estonia					
Cerium compounds	0	0	0	24	501
Other rare earth compounds	4 725	4 469	4 125	2 105	3 616
Finland					
Cerium compounds	92	101	57	72	52
Other rare earth compounds	5	7	9	8	14
France					
Metals	417	447	402	372	506
Cerium compounds	8 831	9 116	6 112	5 687	1 867
Other rare earth compounds	1 232	768	874	1 408	1 359
Ferro-cerium and other pyrophoric alloys	2	3	26	83	388
Germany					
Metals	410	430	106	459	263
Cerium compounds	901	673	448	1 006	844
Other rare earth compounds	9 748	10 192	7 755	9 999	6 904
Ferro-cerium and other pyrophoric alloys	7	6	2	6	14
Greece					
Metals	1	20	68	...	...
Ferro-cerium and other pyrophoric alloys	22	0	0	65	62
Hungary					
Cerium compounds	136	55	36	38	33
Other rare earth compounds	106	62	26	31	23
Iceland					
Metals	—	85	87	350	77
Ireland, Republic of					
Rare earth compounds	23	21	67	8	85
Italy					
Metals	149	144	87	124	108
Cerium compounds	694	710	414	597	616
Other rare earth compounds	452	431	258	303	307
Ferro-cerium and other pyrophoric alloys	2	2	5	10	3

Rare earths

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Lithuania					
Rare earth compounds	3	8	3	14	11
Luxembourg					
Rare earth compounds	1	1	2	2	5
Ferro-cerium and other pyrophoric alloys	—	—	—	11	0
Netherlands					
Metals	100	261	* 200	48	18
Cerium compounds	473	278	71	88	223
Other rare earth compounds	3 868	2 766	* 1 100	568	173
Ferro-cerium and other pyrophoric alloys	3	4	6	2	1
Norway					
Metals	738	341	24	148	552
Cerium compounds	2	7	9	1	13
Other rare earth compounds	0	1	0	8	9
Poland					
Metals	1	—	2	5	0
Cerium compounds	85	148	43	134	101
Other rare earth compounds	63	58	16	48	32
Portugal					
Metals	0	0	...	1	87
Cerium compounds	18	15	11	7	8
Other rare earth compounds	97	7	2	5	18
Romania					
Rare earth compounds	9	6	5	5	1
Slovakia					
Rare earth compounds	8	5	8	8	10
Slovenia					
Metals	139	88	55	98	26
Spain					
Metals	95	274	108	421	9
Cerium compounds	580	444	443	543	636
Other rare earth compounds	255	270	140	216	102
Ferro-cerium and other pyrophoric alloys	40	15	19	41	33
Sweden					
Metals	74	46	28	37	48
Cerium compounds	50	59	47	47	55
Other rare earth compounds	6	8	8	7	9
Switzerland					
Metals	1	...	1	4	5
Cerium compounds	21	16	15	31	18
Other rare earth compounds	13	18	15	16	12
Ferro-cerium and other pyrophoric alloys	...	6	44	...	5
Turkey					
Metals	8	9	9	14	13
Cerium compounds	333	310	200	233	128
Other rare earth compounds	5	5	4	13	8
Ferro-cerium and other pyrophoric alloys	...	12	10	...	...
United Kingdom					
Metals	88	133	99	119	79
Cerium compounds	2 167	2 067	612	1 119	1 713
Other rare earth compounds	664	251	103	322	629
Ferro-cerium and other pyrophoric alloys	77	57	148	150	79

Notes

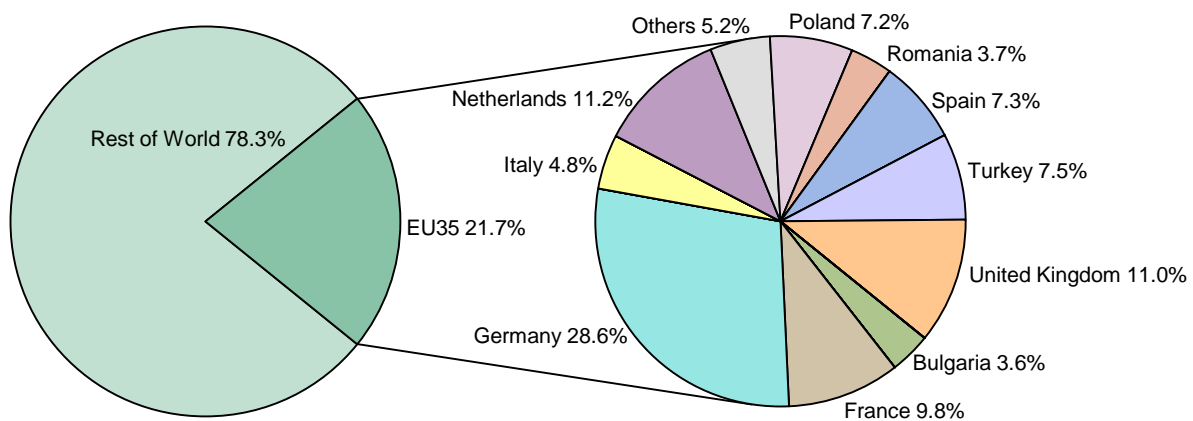
(1) Rare earths are here taken to include yttrium and scandium

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 EU35 have some salt production from rock salt, brine or seawater. China was the world's largest producer in 2011, with 23 per cent of the total world output. The second largest was USA (16 per cent), followed by India (eight per cent), Germany (six per cent) and Canada (four per cent).

EU35 Production of salt 2011



Production of salt

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Rock salt	1 172	503	50	95	169
Salt in brine	735 724	866 674	1 035 044	1 071 842	1 150 474
Bulgaria	2 000 000	2 100 000	1 300 000	1 900 000	2 200 000
Croatia	32 536	54 937	57 186	66 835	53 963
Denmark	557 917	496 593	511 063	601 046	* 600 000
France					
Salt in brine (a)	6 139 840	* 6 000 000	6 100 000	* 6 100 000	* 6 000 000
Germany					
Rock salt	4 826 000	5 545 438	7 709 844	9 992 156	8 765 168
Brine salt	1 010 000	989 208	1 862 630	2 118 484	2 217 205
Salt in brine	7 558 000	7 306 745	* 7 300 000	* 4 500 000	* 6 458 628
Greece	212 000	* 220 000	* 189 000	* 190 000	* 190 000
Italy					
Rock salt and brine salt	4 383 560	5 412 449	3 678 234	4 006 882	2 912 128
Montenegro					
Sea salt	20 000	25 200	17 000	11 200	10 000
Netherlands	6 177 000	6 200 000	5 967 000	5 982 000	6 866 000
Poland					
Rock salt	591 240	618 111	988 545	1 221 700	1 233 800
Brine salt	2 930 726	2 783 198	2 533 413	2 646 000	2 633 000
Other salt	785 694	706 618	763 385	763 515	547 700
Portugal					
Rock salt	590 588	606 545	594 578	618 961	631 295
Sea salt	64 048	69 249	72 325	44 574	48 048
Romania	2 475 349	2 526 774	2 072 744	2 388 357	2 248 940
Serbia	30 023	30 115	28 782	30 816	23 334
Slovakia	117 000	109 510	41 000	—	—
Slovenia	3 029	535	2 924	59	4 291

Salt

Production continued

tonnes

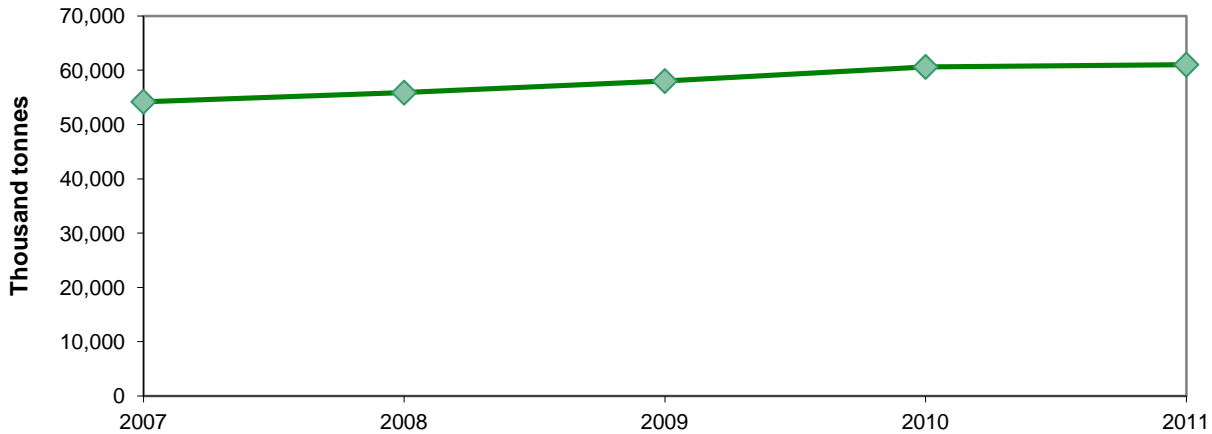
Country	2007	2008	2009	2010	2011
Spain					
Rock salt	2 709 545	2 909 907	2 763 081	3 115 940	* 3 200 000
Sea salt	1 332 360	1 290 672	1 338 789	1 242 718	1 171 435
Other salt	102 524	102 149	99 853	92 644	91 735
Switzerland	353 000	368 000	554 000	643 000	478 324
Turkey					
Sea salt	* 500 000	* 500 000	* 500 000	* 500 000	* 500 000
Other salt	2 366 000	2 472 000	3 765 564	* 4 100 000	* 4 100 000
United Kingdom	5 600 000	5 565 000	6 166 000	6 666 000	* 6 700 000
EU35 Total	54 204 875	55 876 130	58 012 034	60 614 824	61 035 637

Notes

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

(a) Salt; all forms

EU35 Production of salt 2007 - 11



Exports of salt

tonnes

Country	2007	2008	2009	2010	2011
Austria	235 775	388 681	491 981	500 126	392 506
Belgium	55 134	61 012	125 255	288 679	354 644
Bulgaria	13 943	8 239	2 689	1 078	6 074
Croatia	3 986	4 530	9 995	20 721	24 561
Cyprus	769	956	2 910	7 929	6 260
Czech Republic	18 760	14 116	31 068	51 289	41 658
Denmark	261 895	265 036	333 383	319 317	296 459
Estonia	429	121	277	2 055	3 685
Finland	424	336	336	11 380	1 370
France	363 438	231 953	277 617	297 909	190 124
Germany	2 787 088	2 782 861	2 744 985	3 097 654	2 735 634
Greece	37 232	48 908	47 406	59 655	65 014
Hungary	1 459	1 388	3 434	1 356	39 405
Iceland	5 934	3 718	2 115	1 093	1 402
Ireland, Republic of	3 867	8 783	735	10 183	1 540
Italy	212 223	322 221	558 441	919 673	1 017 938
Latvia	14 282	13 741	15 919	23 172	35 545
Lithuania	6 761	6 063	5 437	19 031	13 514
Luxembourg	74	219	220	1 072	589

Exports continued

tonnes

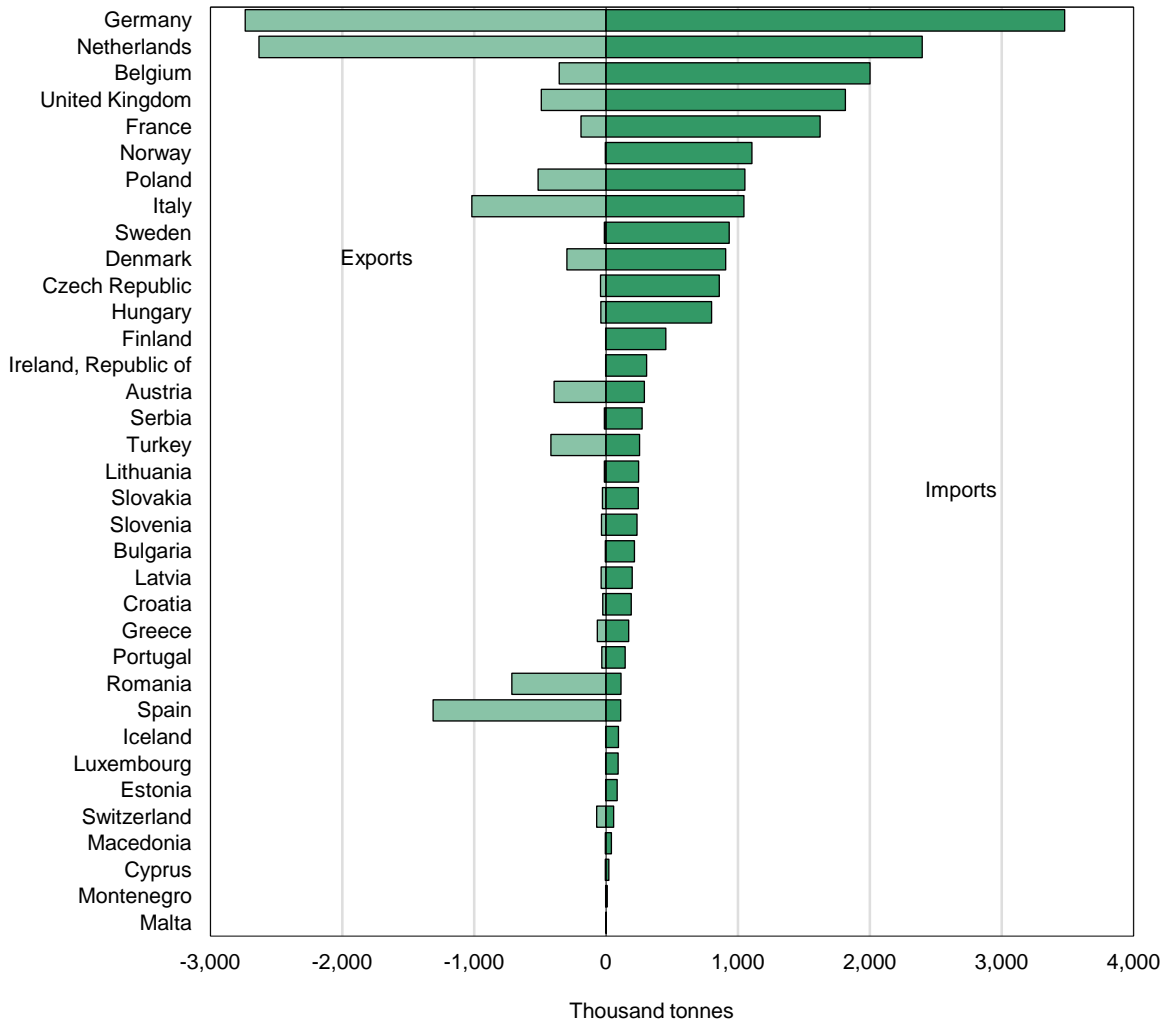
Country	2007	2008	2009	2010	2011
Macedonia	5 091	3 255	3 616	2 666	5 456
Montenegro	2 265	3 505	3 776	14 316	1 560
Netherlands	4 055 898	3 878 601	* 3 412 200	3 456 740	2 631 255
Norway	4 178	4 833	14 998	12 609	5 775
Poland	345 335	361 691	503 899	572 595	515 723
Portugal	25 341	13 412	15 662	31 022	31 304
Romania	506 641	486 040	372 501	790 530	712 657
Serbia	5 026	4 151	3 895	16 290	13 362
Slovakia	51 517	62 133	4 606	45 056	27 935
Slovenia	18 280	20 590	15 671	21 711	33 998
Spain	463 791	646 288	862 994	1 318 019	1 311 651
Sweden	12 601	10 444	10 025	12 742	13 297
Switzerland	55 916	37 772	68 947	67 537	71 525
Turkey	11 164	27 393	26 223	262 050	417 596
United Kingdom	514 868	873 708	449 303	450 246	489 633

Imports of salt

tonnes

Country	2007	2008	2009	2010	2011
Austria	143 538	105 335	230 979	293 799	291 187
Belgium	1 209 879	1 174 539	1 319 896	1 751 650	2 001 517
Bulgaria	71 848	103 007	102 272	215 355	214 732
Croatia	104 066	176 408	197 644	287 609	190 963
Cyprus	12 208	13 445	16 822	23 836	20 998
Czech Republic	567 960	610 149	711 374	958 474	858 980
Denmark	230 787	213 931	421 109	762 420	907 135
Estonia	72 445	72 149	73 931	73 254	85 105
Finland	409 761	397 033	417 495	384 089	452 873
France	592 976	578 882	918 448	1 653 101	1 622 835
Germany	2 476 738	2 319 273	1 867 023	2 654 736	3 477 233
Greece	177 719	134 557	149 094	144 367	173 050
Hungary	514 119	510 287	535 928	704 143	800 950
Iceland	100 169	113 142	98 207	65 342	94 177
Ireland, Republic of	89 236	105 636	114 659	172 053	308 884
Italy	611 435	572 965	902 241	1 119 583	1 045 659
Latvia	123 316	144 424	151 529	163 486	198 975
Lithuania	171 915	166 505	159 534	209 506	246 724
Luxembourg	21 104	45 882	51 132	77 304	91 033
Macedonia	35 657	37 575	39 232	42 011	39 986
Malta	3 590	3 794	1 364	1 682	1 366
Montenegro	13 670	4 814	10 402	6 470	9 600
Netherlands	193 457	167 508	* 253 000	1 404 032	2 397 781
Norway	988 001	1 075 905	959 630	1 042 489	1 106 066
Poland	313 297	356 929	483 243	886 294	1 052 650
Portugal	169 480	94 501	108 161	172 107	144 688
Romania	111 681	92 815	82 569	81 441	114 500
Serbia	208 766	152 207	144 711	204 395	274 636
Slovakia	182 234	189 268	168 211	266 329	244 787
Slovenia	148 352	190 017	239 191	317 999	235 663
Spain	33 691	97 348	81 729	85 807	111 597
Sweden	744 328	875 294	910 606	905 190	933 936
Switzerland	8 913	8 988	70 386	37 731	58 307
Turkey	35 382	257 146	99 400	154 536	254 045
United Kingdom	237 772	237 288	410 434	1 288 253	1 814 865

Salt - EU35 trade in 2011



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. South Africa was the world's largest producer in 2011 followed by USA, France and India. China is also believed to be a significant producer of sillimanite minerals but accurate production data are not available.

Production of sillimanite minerals

tonnes

Country	2007	2008	2009	2010	2011
France					
Andalusite	* 65 000	* 65 000	* 65 000	* 65 000	* 65 000

Notes

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

(2) In addition to the countries listed above as producing sillimanite minerals, synthetic mullite is known to be produced in Denmark, Hungary and the United Kingdom

Exports of sillimanite minerals

tonnes

Country	2007	2008	2009	2010	2011
Belgium	47 141	62 423	39 809	53 940	51 011
France	66 776	66 242	38 494	49 011	55 316
Hungary	(a) * 7 600	(a) * 7 200	(a) * 4 300	7 506	8 180
United Kingdom	2 430	2 076	1 414	1 378	1 761

Notes

(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	2007	2008	2009	2010	2011
Austria	3 160	2 639	1 353	2 089	2 224
Belgium					
Sillimanite minerals	52 061	6 683	40 549	53 115	50 427
Mullite	837 300	2 149	432	1 955	1 690
Czech Republic					
Sillimanite minerals	4 570	5 829	4 227	3 682	4 089
Mullite	1 031	857	490	758	818
Denmark					
Sillimanite minerals	1 631	915	1 011	1 124	792
Mullite	1 746	1 567	1 587	3 199	2 590
France					
Sillimanite minerals	3 464	3 046	3 209	3 110	3 502
Mullite	2 563	3 209	1 327	2 663	3 831
Germany					
Sillimanite minerals	89 557	56 555	27 232	47 738	48 748
Mullite	20 404	23 113	12 279	47 775	72 049
Greece	734	2 662	505	44	220

Sillimanite minerals

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Hungary					
Sillimanite minerals	3 428	2 812	1 892	2 100	2 903
Mullite	—	1 192	649	1 348	1 854
Italy					
Sillimanite minerals	16 672	19 422	38 590	14 473	17 937
Mullite	8 135	11 194	6 582	16 141	13 564
Netherlands					
Sillimanite minerals	14 845	3 400	2 425	3 576	13 342
Mullite	34 946	18 557	21 064	51 745	64 162
Norway	3 404	2 702	4 359	3 456	3 208
Poland					
Sillimanite minerals	23 321	16 975	7 852	17 956	13 791
Mullite	4 956	3 728	1 040	2 109	2 817
Slovakia	3 299	1 919	1 812	2 456	2 917
Spain					
Sillimanite minerals	25 985	26 903	19 824	27 611	32 091
Mullite	1 807	8 006	1 824	4 934	6 153
Sweden	6 381	5 212	2 395	4 782	5 174
Switzerland	1 035	1 128	527	1 162	1 596
Turkey					
Sillimanite minerals	5 886	4 255	4 891	5 466	6 907
Mullite	1 101	5 280	3 635	12 675	10 733
United Kingdom					
Sillimanite minerals	10 239	11 920	7 763	7 419	12 485
Mullite	12 036	6 488	5 255	8 276	3 491

Notes

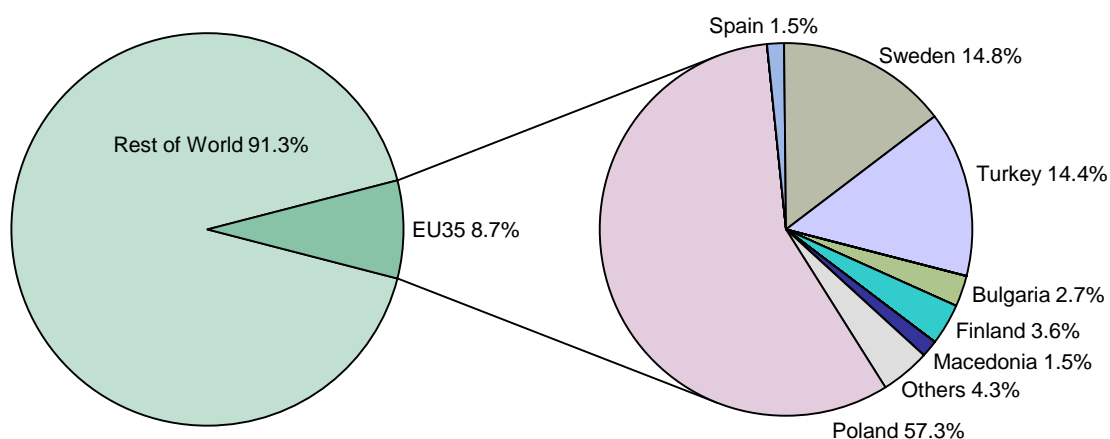
(1) In this table 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

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. Mexico was the world's largest producer in 2011, with 21 per cent of the total world output. The second largest was Peru (15 per cent), followed by China (14 per cent), Australia (seven per cent) and Chile (six per cent).

EU35 Mine production of silver 2011



Mine production of silver

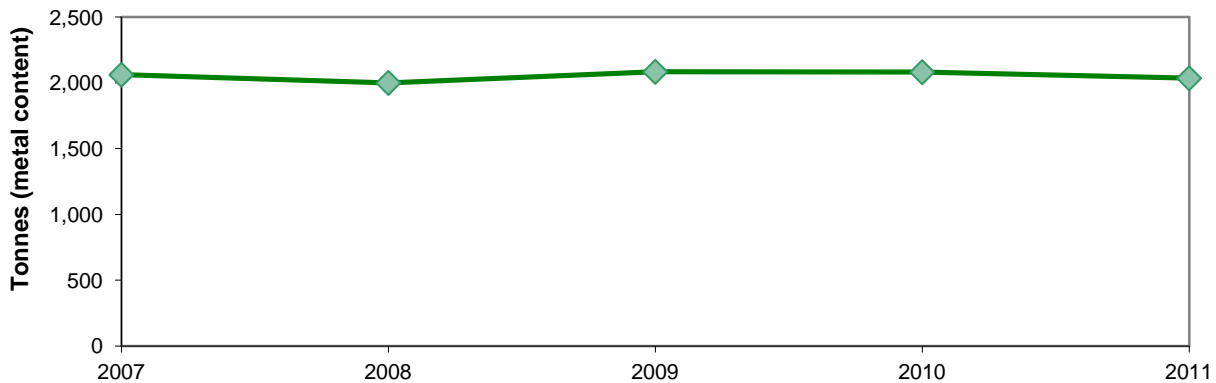
kilograms (metal content)

Country	2007	2008	2009	2010	2011
Bulgaria	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Finland	44 895	69 906	70 062	64 596	73 081
Greece	38 300	33 500	27 500	29 000	* 29 000
Ireland, Republic of	9 650	7 172	5 267	3 818	6 109
Macedonia	* 30 000	* 40 000	* 35 000	* 32 000	* 30 000
Poland	1 199 500	1 161 000	1 206 000	1 183 000	1 167 000
Portugal	26 514	26 273	20 483	20 561	25 545
Romania	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Serbia (a)	2 300	2 300	4 424	4 384	7 380
Slovakia	50	198	201	320	330
Spain	—	—	2 200	20 800	29 900
Sweden	323 171	293 068	288 590	302 145	301 959
Turkey	* 315 000	* 294 000	351 600	348 000	292 400
United Kingdom	212	398	514	506	531
EU35 Total	2 062 592	2 000 815	2 084 841	2 082 130	2 036 235

Note

(a) Smelter and/or refinery production

EU35 Mine production of silver 2007 - 11



Exports of silver

kilograms

Country	2007	2008	2009	2010	2011
Austria					
Metal	115 100	95 000	98 600	100 300	136 000
Belgium					
Ores and concentrates	47 600	33 100	6 200	12 300	2 149 800
Metal	31 000	41 900	69 900	21 800	197 000
Bulgaria					
Ores and concentrates	...	...	...	...	8 900
Metal	49 468	36 516	58 565	37 300	35 200
Czech Republic					
Metal	102 968	117 325	77 000	74 600	399 700
Denmark					
Metal	43 775	18 782	37 200	30 300	53 800
Estonia					
Metal	9	13	955	200	4 600
Finland					
Ores and concentrates	700	38	—	—	46
Metal	3 400	3 400	1 680	1 162	1 336
France					
Ores and concentrates	26 500	51 100	1 597 157	—	4 053
Metal	208 832	215 148	169 806	258 205	511 716
Germany					
Metal	2 884 200	3 012 400	2 169 994	3 397 674	3 368 313
Greece					
Metal	8 300	7 400	79 400	19 700	13 900
Hungary					
Metal	527	139	1 300	3 300	29 200
Ireland, Republic of					
Ores and concentrates	2 560	—	—	...	—
Italy					
Metal	547 042	519 148	383 782	715 501	995 384
Lithuania					
Metal	61	600	200	1 100	1 600
Luxembourg					
Metal	200	100	—	—	600
Netherlands					
Ores and concentrates	...	18 000	...	1 458	6 944
Metal	144 024	208 300	196 180	216 182	624 589
Norway					
Metal	45 461	59 381	58 979	57 617	62 849
Poland					
Metal	1 148 300	1 121 900	1 265 200	1 281 800	1 328 900
Portugal					
Ores and concentrates	4 000	13 500	11 500	12 300	16 300
Metal	218	7 876	580	3 400	10 600

					Silver
Exports continued					kilograms
Country	2007	2008	2009	2010	2011
Serbia					
Metal	3 315	6 937	3 670	4 355	4 222
Slovakia					
Metal	35 036	6 061	2 700	39 100	15 100
Slovenia					
Metal	5 200	8 800	1 600	3 100	3 600
Spain					
Ores and concentrates	1 608	—	30	377	9 847
Metal	13 637	379 675	233 084	417 381	383 412
Sweden					
Ores and concentrates	59 400	...	—	...	...
Metal	364 500	521 200	476 300	412 900	428 500
Switzerland					
Metal	1 201 402	1 444 198	916 560	1 456 475	1 779 063
Turkey					
Metal	10 700	20 897	170 009	144 942	202 886
United Kingdom					
Ores and concentrates	1 627	192	1 338	2 035	206
Metal	2 317 951	6 071 009	943 522	2 579 909	3 937 294
Waste and scrap (a)	5 050 634	5 447 491	8 412 093	5 160 290	11 649 846

Notes

(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) Including scrap of platinum group metals.

Imports of silver

					kilograms
Country	2007	2008	2009	2010	2011
Austria					
Metal	151 600	441 900	431 500	481 800	804 000
Belgium					
Ores and concentrates	195 900	253 700	1 567 600	6 000 300	7 619 600
Metal	418 100	351 300	225 700	86 500	71 100
Bulgaria					
Metal	10 521	2 189	871	2 408	4 300
Croatia					
Metal	3 684	3 293	2 353	3 212	3 868
Cyprus					
Metal	3 746	2 863	1 993	1 200	2 200
Czech Republic					
Ores and concentrates	...	...	5 700	990 200	—
Metal	647 818	1 557 076	163 316	136 000	1 635 700
Denmark					
Metal	62 049	51 992	1 873 817	612 600	172 900
Estonia					
Metal	3 100	5 800	2 900	3 200	5 000
Finland					
Metal	55 400	44 800	(a)* 47 900	50 681	26 764
France					
Ores and concentrates	39 800	21 300	4 279	4 433 810	8 499
Metal	643 280	544 821	435 001	954 773	908 080
Germany					
Ores and concentrates	859 400	6 024 500	2 581 290	4 002 438	3 493 141
Metal	2 565 300	2 668 900	1 784 960	2 322 566	2 434 577
Greece					
Metal	1 039 000	276 100	31 300	29 900	55 100
Hungary					
Metal	14 581	8 354	128 985	196 500	234 100

Silver

Imports continued

kilograms

Country	2007	2008	2009	2010	2011
Iceland					
Metal	1 388	858	1 096	909	700
Ireland, Republic of					
Metal	1 045	29 530	5 316	3 999	17 103
Italy					
Ores and concentrates	1 002	—	15	70 440	31 391
Metal	1 445 303	1 167 457	881 205	1 120 080	729 807
Latvia					
Metal	1 450	1 174	556	791	2 300
Lithuania					
Metal	5 200	6 900	5 800	6 300	7 800
Luxembourg					
Metal	26 083	7 061	3 738	24 304	11 000
Macedonia					
Metal	3 612	3 807	2 229	3 294	3 779
Malta					
Metal	783	5 455	1 090	128	100
Netherlands					
Metal	229 637	265 925	218 279	304 219	338 239
Norway					
Ores and concentrates (a)	* 59 000	* 200	* 5 700	* 1 100	* 700
Metal	62 077	67 398	47 040	57 422	49 727
Poland					
Metal	77 000	95 200	122 900	106 700	78 600
Portugal					
Metal	30 616	22 678	18 602	66 900	38 700
Romania					
Metal (a)	* 7 700	* 9 400	* 8 800	* 27 500	* 8 100
Slovakia					
Metal	12 200	8 200	9 000	55 300	* 47 000
Slovenia					
Metal	27 800	45 000	17 800	24 100	29 700
Spain					
Ores and concentrates	58 344	75 633	66 088	11 317	17 131
Metal	126 668	1 547 747	754 262	1 513 257	828 017
Sweden					
Ores and concentrates	21 000	(a)* 2 466 000	2 330 100	...	...
Metal	162 900	122 200	85 300	83 700	90 900
Switzerland					
Ores and concentrates (a)	* 39 800	* 9 600	* 100 900	* 55 800	15 107 700
Metal	849 037	1 520 531	2 136 092	1 746 243	2 155 625
Turkey					
Metal	996 239	154 639	57 700	90 064	209 909
United Kingdom					
Ores and concentrates	8 283	8 332	1 106	9 737	1 209
Metal	3 635 563	3 943 638	6 649 190	3 278 015	3 686 011
Waste and scrap	3 049 452	4 222 712	3 311 165	4 137 096	13 713 610

Notes

(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

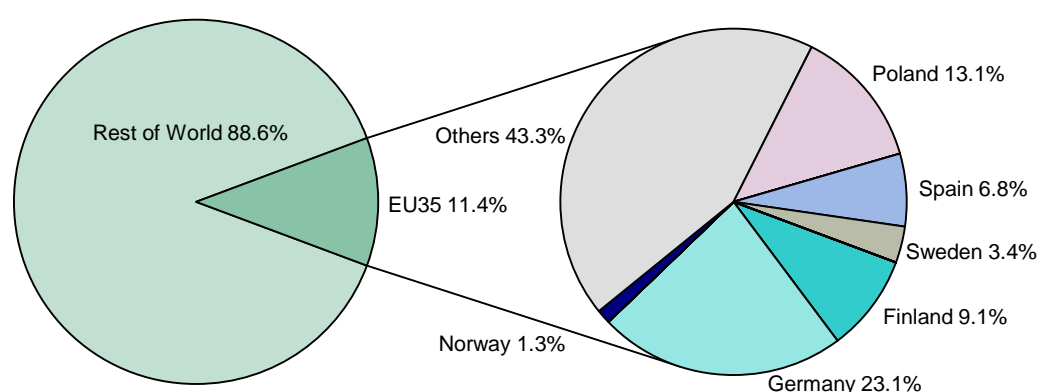
(a) BGS estimates, based on known exports from certain countries

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 2011 were the USA (12 per cent of the total world output), followed by China (11 per cent) and Russia (ten per cent). The largest world producer of pyrites and sulphur ore was China (with 93 per cent and 95 per cent respectively of the total world output).

EU35 Production of sulphur and pyrites 2011



In this graph "Others" includes Belgium, Bulgaria, France, Greece, Italy, the Netherlands, Turkey and the United Kingdom in addition to those countries that produced less than one per cent of the EU35 total.

Production of sulphur and pyrites

tonnes (sulphur content)

Country	2007	2008	2009	2010	2011
Austria					
Recovered (b)	50 501	48 024	48 624	40 512	48 612
Denmark					
Recovered (b)	3 896	3 467	4 200	3 246	3 045
Finland					
Pyrites	194 400	226 000	153 600	250 000	338 000
Recovered (a)	* 326 000	331 000	273 600	270 000	320 000
Recovered (b)	125 000	117 000	127 000	122 000	133 300
Germany					
Recovered (b)	1 650 100	1 578 000	1 504 000	1 455 000	1 465 000
Recovered (c)	35 900	39 000	565 000	513 000	542 210
Lithuania					
Recovered (b)	42 618	73 870	69 722	73 470	76 699
Norway					
Recovered (a)	* 95 000	* 95 000	* 90 000	* 96 000	* 96 000
Recovered (b)	18 000	28 000	25 000	22 000	19 000
Poland					
Frasch	833 583	762 119	262 769	517 000	657 000
Recovered (a)	304 000	294 000	257 000	253 000	310 500
Recovered (b)	211 900	222 800	214 382	250 000	* 171 000
Spain					
Recovered (a)	543 000	551 000	533 000	547 000	490 000
Recovered (b)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Sweden					
Recovered (a)	177 000	199 600	186 100	179 833	202 289
Recovered (b)	66 569	84 456	83 646	83 947	92 973

Sulphur and pyrites

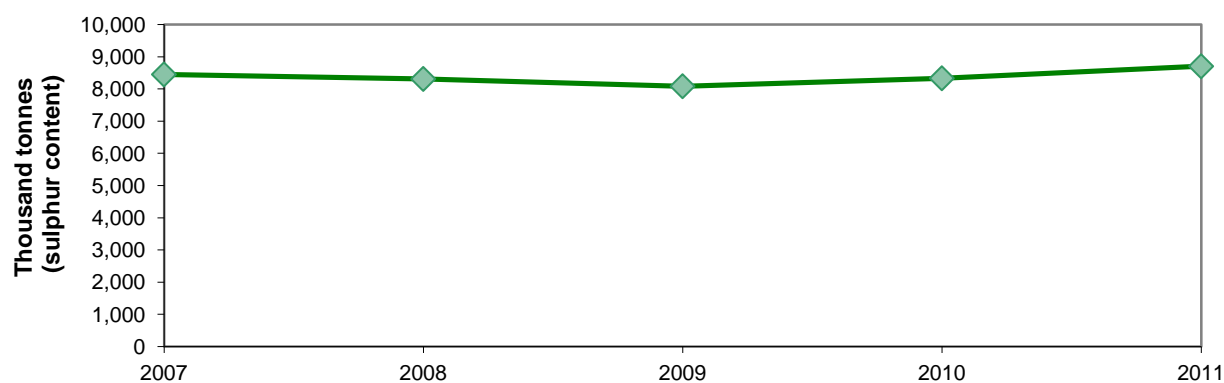
Production continued	tonnes (sulphur content)				
Country	2007	2008	2009	2010	2011
Other EU35 countries (all forms)	3 575 000	3 494 000	3 496 000	3 482 000	3 568 000
EU35 Total					
Pyrites	255 000	305 000	233 000	329 000	417 000
Frasch	834 000	762 000	263 000	517 000	657 000
Recovered	7 263 000	7 180 000	7 499 000	7 412 000	7 560 000

Notes

(1) Other EU35 countries includes: Belgium, Bulgaria, Croatia, Czech Republic, France, Greece, Hungary, Italy, Netherlands, Portugal, Romania, Serbia, Slovakia, Turkey and United Kingdom

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

EU35 Production of sulphur and pyrites 2007 - 11



Exports of sulphur and pyrites

Country	2007	2008	2009	2010	2011
Austria					
Pyrites	2 645	2 672	1 740	2 794	2 887
Sulphur	3 006	3 292	472	90	140
Sulphur, sublimed and precipitated	492	3 906	7 423	1 145	746
Belgium					
Sulphur	18 391	75 305	74 232	21 533	34 087
Sulphur, sublimed and precipitated	531	368	345	193	83
Bulgaria					
Sulphur	33 039	28 993	20 840	40 286	38 097
Croatia					
Sulphur	8 614	7 604	8 664	6 565	14 256
Czech Republic					
Sulphur	5 579	16 670	20 153	12 124	980
Finland					
Pyrites (a)	* 90 000	* 386 000	* 88 000	* 198 000	* 460 000
Sulphur	3 513	2 521	35 701	2 715	2 404
France					
Sulphur	59 934	246 005	313 229	296 345	248 989
Sulphur, sublimed and precipitated	680	2 843	445	565	556
Germany					
Pyrites	741	485	320	755	440
Sulphur	828 544	654 808	681 563	671 836	721 717

Exports continued						tonnes
Country	2007	2008	2009	2010	2011	
Greece						
Pyrites	73 606	63 893	24 429	28 680	42	
Sulphur	52 668	16 345	4 044	4 594	35 279	
Hungary						
Sulphur	43 178	43 649	39 638	44 098	48 616	
Italy						
Pyrites	8 024	10 071	6 005	13 698	16 032	
Sulphur	263 362	219 095	256 614	286 954	285 891	
Sulphur, sublimed and precipitated	39 061	4 693	21 430	22 485	55 740	
Lithuania						
Sulphur	7	1 517	14 038	1 227	403	
Netherlands						
Pyrites	102 300	132 802	10 039	56 610	101 114	
Sulphur	460 352	850 183	36 898	480 968	469 819	
Norway						
Sulphur	3 325	—	—	1	—	
Poland						
Sulphur	555 603	446 202	152 484	402 102	394 861	
Sulphur, sublimed and precipitated	26 376	27 041	29 540	34 752	26 542	
Portugal						
Sulphur	15 410	7 539	5 737	6 164	9 737	
Romania						
Pyrites	0	994	6 315	8	5	
Sulphur	45 579	59 030	49 052	55 961	58 437	
Serbia						
Sulphur	4 017	4 424	1 451	2 335	3 571	
Slovakia						
Sulphur, sublimed and precipitated	75 817	71 373	72 613	72 910	82 785	
Spain						
Sulphur	77 220	116 213	198 585	138 168	361 188	
Sulphur, sublimed and precipitated	244	338	523	612	289	
Sweden						
Sulphur	5 168	5 525	3 018	2 768	3 980	
Sulphur, sublimed and precipitated	10 959	13 128	12 242	11 564	10 344	
Switzerland						
Sulphur	0	335	4 837	5 310	4 864	
Turkey						
Sulphur	7 091	21 289	6 495	279 822	56 143	
Sulphur, sublimed and precipitated	15 376	17 259	14 769	21 068	7 949	
United Kingdom						
Sulphur, crude	8 207	13 182	2 545	41 491	101 964	
Sulphur, refined	15 268	27 872	38 723	1 198	3 686	
Sulphur, sublimed and precipitated	624	1 144	1 902	1 349	2 151	

Note

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

Imports of sulphur and pyrites

Imports of sulphur and pyrites						tonnes
Country	2007	2008	2009	2010	2011	
Austria						
Pyrites	3 809	3 754	1 614	3 154	3 321	
Sulphur	84 659	89 038	68 881	75 065	70 892	
Sulphur, sublimed and precipitated	5 556	17 842	14 961	15 331	22 109	
Belgium						
Sulphur	503 523	611 170	460 990	592 348	562 688	
Sulphur, sublimed and precipitated	311	1 852	750	621	473	
Bulgaria						
Sulphur	1 039	487	162	161	291	
Croatia						
Pyrites	...	32	...	...	...
Sulphur	71 965	98 785	10 349	2 877	2 752	
Sulphur, sublimed and precipitated	2 425	4	51	105	156	

Sulphur and pyrites

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Cyprus					
Sulphur	995	895	1 011	951	625
Czech Republic					
Pyrites	281	1 576	299	250	247
Sulphur	55 196	43 473	20 986	14 762	14 945
Sulphur, sublimed and precipitated	57 410	65 242	71 033	82 355	93 289
Denmark					
Sulphur	204	2 082	4 447	7 051	6 123
Finland					
Sulphur	415	9 073	1 673	21 676	38 923
Sulphur, sublimed and precipitated	6	450	6	3	4
France					
Pyrites	160	173	159	183	206
Sulphur	56 072	50 092	55 212	78 366	92 106
Sulphur, sublimed and precipitated	797	5 861	403	410	441
Germany					
Pyrites	92 569	109 955	52 641	76 101	82 530
Sulphur	51 785	53 602	38 246	44 103	51 714
Sulphur, sublimed and precipitated	2 007	2 964	2 856	1 649	4 363
Greece					
Pyrites	94 621	40 754	3	1	0
Sulphur	35 625	42 733	26 673	42 673	80 976
Hungary					
Sulphur	(a)* 1 200	2 105	(a)* 1 200	3 189	1 100
Sulphur, sublimed and precipitated	174	586	186	119	223
Ireland, Republic of					
Sulphur, sublimed and precipitated	887	305	74	17	0
Italy					
Pyrites	14 879	20 984	228	13 538	29 746
Sulphur	16 271	48 618	13 305	19 263	30 290
Sulphur, sublimed and precipitated	414	2 711	3 617	758	732
Latvia					
Sulphur	8	9	12 488	24	21
Lithuania					
Sulphur	317 678	293 365	319 353	326 485	298 977
Sulphur, sublimed and precipitated	0	404	18	1	0
Luxembourg					
Sulphur	3 139	5 771	2 981	2 166	1 789
Netherlands					
Pyrites	80	145 627	2 119	48	1 593
Sulphur	38 189	55 173	11 430	49 399	229 496
Norway					
Sulphur	5 224	4 690	3 102	2 897	3 051
Sulphur, sublimed and precipitated	10 790	12 932	12 127	11 515	11 627
Poland					
Pyrites	1 582	5 768	813	1 866	1 255
Sulphur	74 805	104 300	35 350	44 939	53 828
Sulphur, sublimed and precipitated	10	105	978	164	387
Portugal					
Sulphur	3 233	2 852	3 366	4 861	3 981
Romania					
Pyrites	3	1 072	1	1	51
Sulphur	1 959	2 390	1 884	2 561	2 965
Sulphur, sublimed and precipitated	2	180	1 254	2 062	2 074
Serbia					
Sulphur	627	338	621	674	721
Slovakia					
Sulphur	4 339	4 553	2 462	3 855	3 173
Sulphur, sublimed and precipitated	753	1 518	1 046	864	1 510
Slovenia					
Pyrites	612	683	353	645	836
Sulphur	53 434	56 381	53 615	57 411	56 490
Sulphur, sublimed and precipitated	1	...	...	...	...

Imports continued

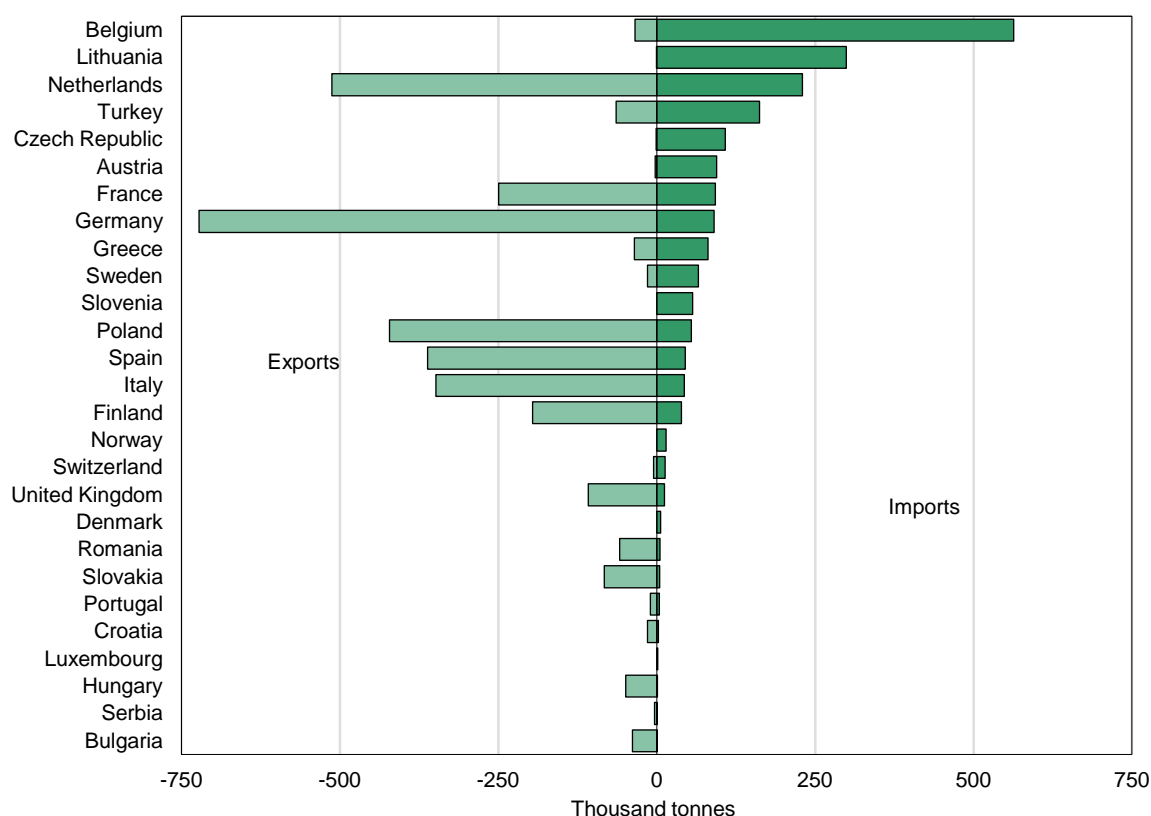
tonnes

Country	2007	2008	2009	2010	2011
Spain					
Pyrites	2 585	1 903	958	1 160	476
Sulphur	152 566	153 575	24 015	68 214	44 724
Sulphur, sublimed and precipitated	265	372	187	229	176
Sweden					
Pyrites	750	691	544	874	825
Sulphur	94 449	78 784	21 772	56 961	65 296
Sulphur, sublimed and precipitated	4	112	143	200	145
Switzerland					
Sulphur	20 982	17 425	12 086	17 414	13 072
Turkey					
Pyrites	252	224	67	480	323
Sulphur	168 952	128 685	164 034	141 478	161 866
Sulphur, sublimed and precipitated	194	321	1 315	592	292
United Kingdom					
Pyrites	105	704	104	2 581	1 734
Sulphur, crude	5 101	64	74	274	590
Sulphur, refined	8 577	9 574	6 211	10 201	10 391
Sulphur, sublimed and precipitated	1 073	1 186	473	767	691

Note

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

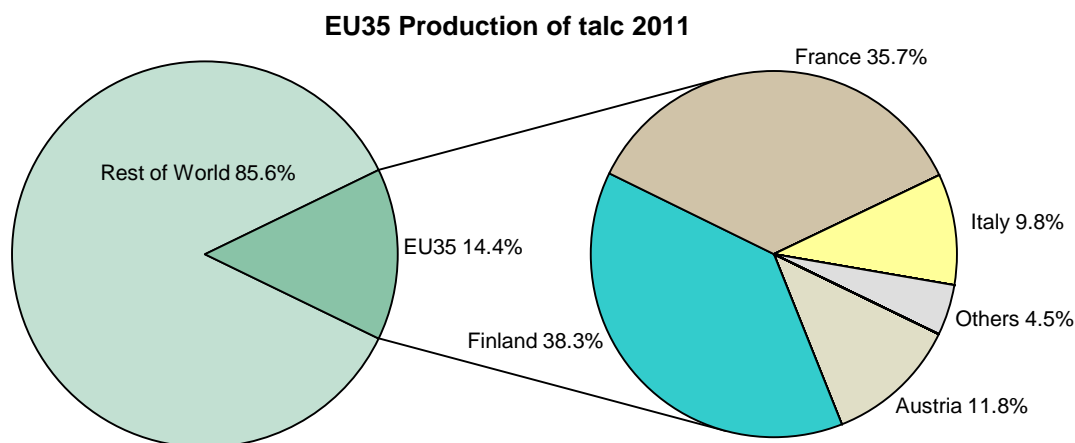
Sulphur and pyrites - EU35 trade in 2011



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.

China was the world's largest producer in 2011, with 28 per cent of the total world output. The second largest was India (12 per cent), followed by Brazil and USA (eight per cent each) and South Korea (seven per cent).

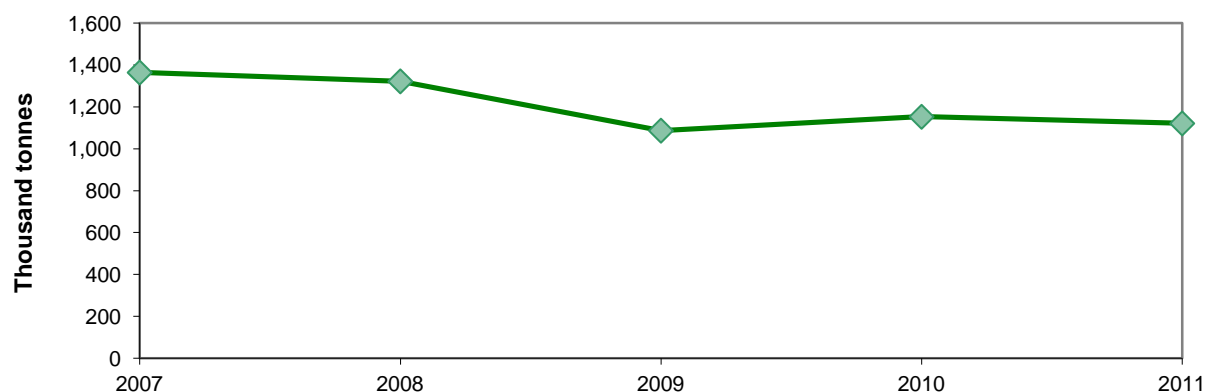


Production of talc

tonnes

Country	2007	2008	2009	2010	2011
Austria	153 409	154 577	111 388	138 367	132 018
Finland	535 882	527 686	375 302	419 345	429 494
France	* 420 000	* 420 000	400 000	400 000	400 000
Greece	200	* 200	* 200	* 200	* 200
Italy	117 643	* 110 000	* 110 000	* 110 000	* 110 000
Macedonia	1 775	977	682	1 292	547
Norway	* 34 000	* 30 000	23 350	6 392	8 191
Portugal	12 367	11 657	11 567	11 981	15 462
Romania	1 513	1 843	570	296	131
Slovakia	—	—	—	7 000	7 000
Spain	78 042	59 299	47 218	51 897	11 957
Sweden	7 000	4 000	4 000	4 000	3 000
United Kingdom	2 850	2 410	2 861	2 633	3 709
EU35 Total	1 364 681	1 322 649	1 087 138	1 153 403	1 121 709

EU35 Production of talc 2007 - 11



Exports of talc

tonnes

Country	2007	2008	2009	2010	2011
Austria	153 457	135 390	106 423	106 271	115 967
Belgium	165 105	139 619	112 983	128 526	125 040
Czech Republic	340	386	182	169	298
Denmark	273	165	269	409	235
Finland (a)	* 284 000	* 320 000	* 174 000	* 222 000	* 259 000
France	276 014	269 771	224 419	270 494	269 518
Germany	5 394	6 382	3 662	4 773	6 243
Greece	5 016	3 926	3 898	2 809	4 086
Italy	131 071	114 017	124 212	143 236	135 418
Macedonia	1 124	509	528	636	648
Netherlands	199 896	186 688	147 544	173 042	147 492
Norway	33 032	27 371	23 461	728	2 204
Poland	750	829	793	869	744
Portugal	4 243	3 841	2 699	4 316	2 526
Slovakia	1 494	1 994	45	47	38
Spain	39 689	51 180	29 580	11 206	28 980
Sweden	9 415	9 227	8 032	9 014	8 308
Turkey	1 742	1 636	1 712	2 865	2 711
United Kingdom	2 389	3 129	2 402	3 074	3 171

Note

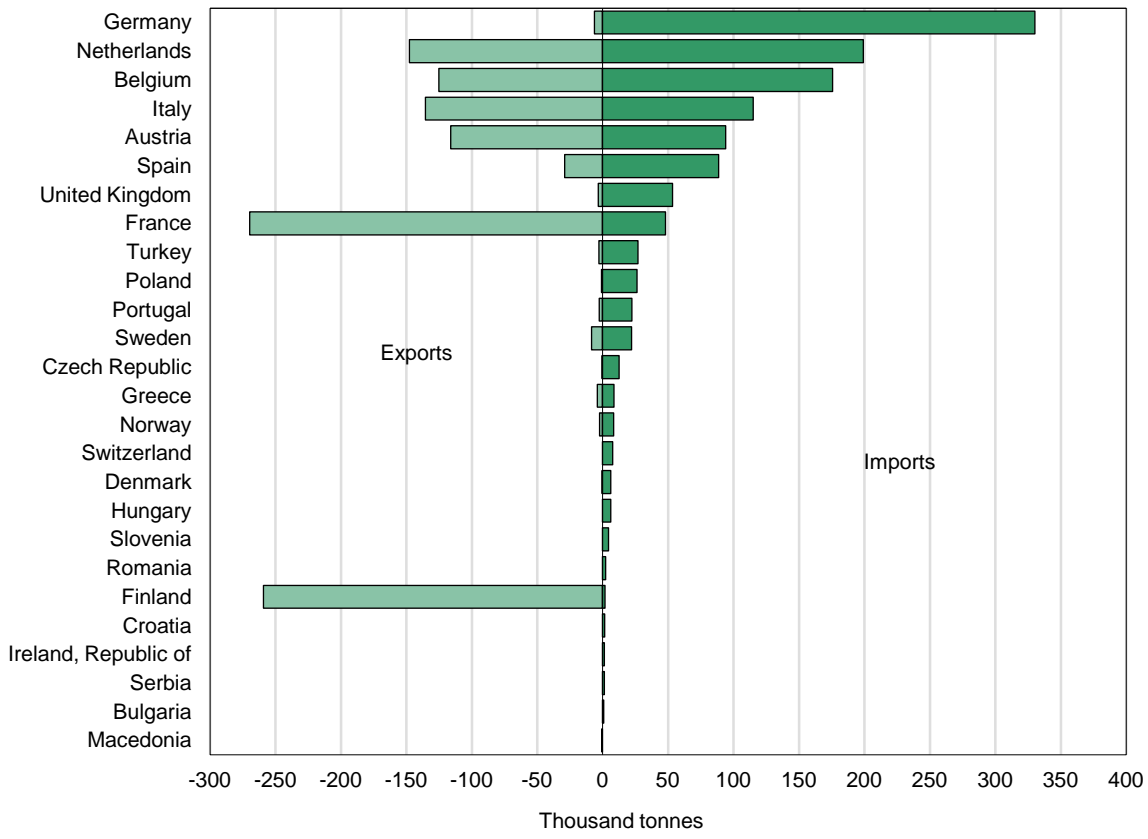
(a) BGS estimates, based on known imports into certain countries

Imports of talc

tonnes

Country	2007	2008	2009	2010	2011
Austria	58 500	68 797	37 648	74 554	93 985
Belgium	202 584	194 823	149 757	183 625	175 662
Bulgaria	688	1 048	747	512	985
Croatia	1 985	1 709	1 721	1 813	1 578
Cyprus	343	521	290	307	267
Czech Republic	12 993	11 007	9 312	9 570	12 686
Denmark	10 830	12 055	8 035	7 013	6 276
Estonia	418	331	332	373	451
Finland	663	503	525	1 202	1 929
France	77 772	76 147	72 274	59 722	48 155
Germany	347 230	338 606	293 417	324 703	330 321
Greece	8 550	12 372	7 862	8 869	8 663
Hungary	9 224	8 875	7 566	6 786	6 226
Ireland, Republic of	375	473	1 722	1 140	1 320
Italy	140 461	147 549	78 506	100 934	115 046
Latvia	396	417	314	295	145
Lithuania	511	388	225	270	190
Netherlands	225 720	207 922	94 407	178 312	199 302
Norway	13 374	8 020	6 517	8 356	8 364
Poland	23 122	28 186	18 325	23 331	26 212
Portugal	36 089	26 774	18 537	24 143	22 388
Romania	2 006	1 971	1 105	2 099	2 248
Serbia	1 606	1 733	1 236	1 616	1 270
Slovakia	1 344	2 448	1 030	719	380
Slovenia	5 301	12 860	13 756	10 793	4 489
Spain	96 298	85 942	81 043	82 425	88 655
Sweden	48 746	45 801	28 459	25 998	22 202
Switzerland	10 360	8 756	7 987	8 490	7 666
Turkey	18 549	17 706	14 893	20 026	26 952
United Kingdom	54 812	53 864	39 520	50 309	53 339

Talc - EU35 trade in 2011



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 2011 were Rwanda (with 25 per cent of the total world output) and Brazil (with 19 per cent). Although Australia's mines reopened during the year it was only the third largest producer with 14 per cent of the total. The largest producer of niobium was Brazil (> 95 per cent of the total world output), followed by Canada (with four per cent).

Exports of tantalum

tonnes

Country	2007	2008	2009	2010	2011
Austria	13	20	35	27	29
Belgium	3	26	2	4	2
Czech Republic	66	97	62	95	110
Estonia	43	67	47	34	76
France	21	18	37	20	25
Germany	199	299	8	18	38
Lithuania	48	31	11	9	18
Netherlands	2	2	4	22	42
Portugal	63	48	49	98	81
United Kingdom	77	55	72	191	97

Notes

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

Imports of tantalum

tonnes

Country	2007	2008	2009	2010	2011
Austria	70	—	—	17	4
Czech Republic	206	253	141	265	222
Estonia	5	6	—	37	20
France	83	84	43	22	39
Germany	125	188	67	231	376
Hungary	0	...	0	32	0
Ireland, Republic of	3	2	4	85	0
Lithuania	47	38	24	12	13
Netherlands	8	10	4	6	9
Poland	3	52	1	3	1
Portugal	69	83	22	41	44
Spain	112	—	3	1	...
United Kingdom	96	161	145	284	176

Notes

(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.

China was the world's largest producer of mined tin in 2011, with 42 per cent of the total world output. The second largest was Indonesia (26 per cent), followed by Peru (ten per cent), Bolivia (seven per cent) and Australia (five per cent).

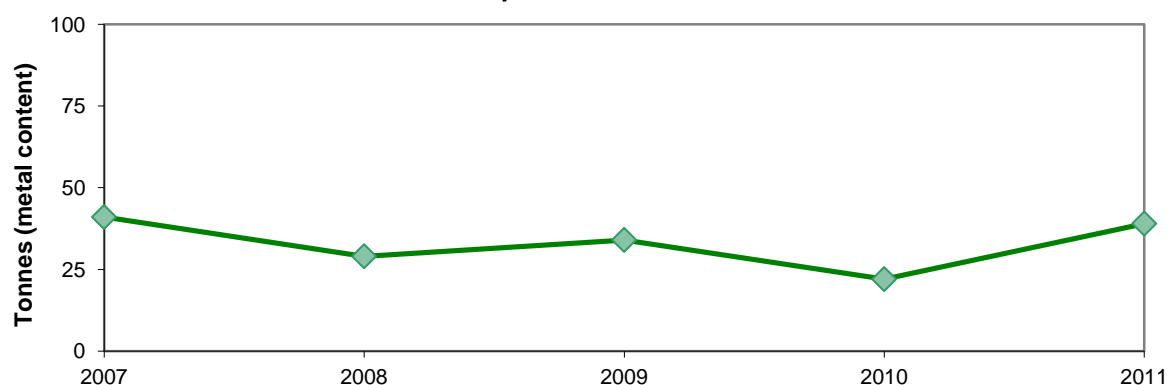
China was also the world's largest producer of refined tin in 2011, with 47 per cent of the total world output. The second largest was Indonesia (13 per cent), followed by Malaysia (12 per cent), Peru (ten per cent) and Thailand (six per cent).

Mine production of tin

tonnes (metal content)

Country	2007	2008	2009	2010	2011
Portugal	41	29	34	22	39

EU35 Mine production of tin 2007 - 11



Smelter production of tin

tonnes

Country	2007	2008	2009	2010	2011
Belgium	8 400	9 200	8 700	9 900	10 000

Exports of tin

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Unwrought (a)	167	177	71	60	98
Scrap	103	141	53	49	56
Belgium					
Concentrates	68	161	42	127	95
Unwrought	2 734	7 274	4 753	5 114	4 261
Unwrought alloys	7 072	2 448	5 000	6 236	6 427
Scrap	147	233	127	207	1 195
Czech Republic					
Unwrought (a)	253	86	76	276	18
Scrap	958	85	118	44	167

Exports continued					Tin
					tonnes
Country	2007	2008	2009	2010	2011
Estonia					
Scrap	71	88	124	120	56
Finland					
Scrap	201	193	124	142	139
France					
Concentrates	4	16	44	341	89
Unwrought	552	441	402	423	413
Unwrought alloys	884	236	140	143	178
Scrap	590	654	282	342	532
Germany					
Concentrates	—	—	163	32	...
Unwrought	1 246	1 612	1 000	1 253	1 348
Unwrought alloys	1 371	1 530	1 088	956	1 459
Scrap	1 222	1 649	1 129	1 440	1 175
Hungary					
Unwrought (a)	51	140	82	44	43
Scrap	141	246	222	196	222
Ireland, Republic of					
Unwrought	(a) 1 094	(a) 34	(a) 23	(a) 689	—
Italy					
Unwrought (a)	567	392	411	367	383
Scrap	204	249	154	289	243
Latvia					
Scrap	...	3	...	175	8
Malta					
Scrap	340	250	* 1	* 3	4
Netherlands					
Unwrought	8 061	2 566	1 536	4 043	3 619
Unwrought alloys	293	948	558	856	357
Scrap	545	157	547	544	465
Norway					
Scrap	189	119	12	39	30
Poland					
Unwrought (a)	1 520	355	279	408	536
Portugal					
Unwrought	173	—	250	—	31
Scrap	25	147	9	43	82
Romania					
Unwrought (a)	63	51	66	68	128
Slovakia					
Unwrought	20	107	(a) 9	(a) 8	11
Spain					
Unwrought (a)	98	433	427	513	449
Scrap	460	447	2 038	376	4 543
Sweden					
Unwrought (a)	201	213	122	163	52
Scrap	161	96	63	27	71
Switzerland					
Unwrought (a)	112	114	87	60	16
Scrap	123	76	136	118	131
Turkey					
Unwrought (a)	179	118	37	79	56
United Kingdom					
Concentrates	373	254	61	163	58
Unwrought	4 085	1 264	928	1 856	1 797
Unwrought alloys	696	532	537	389	545
Scrap	27 329	19 110	22 597	13 115	4 414

Notes

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

(a) Including alloys

Imports of tin

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Unwrought (a)	2 486	2 679	1 915	2 923	3 403
Belgium					
Concentrates	17	318	16	200	488
Unwrought	1 639	1 100	1 350	1 131	847
Unwrought alloys	2 719	2 235	2 638	3 289	2 785
Scrap	3 907	2 422	2 327	3 560	3 551
Bulgaria					
Unwrought (a)	51	69	22	47	359
Czech Republic					
Unwrought (a)	616	802	937	449	651
Denmark					
Unwrought (a)	19	30	13	110	136
Finland					
Unwrought (a)	166	184	94	188	136
France					
Unwrought	7 689	6 506	5 869	5 787	5 252
Unwrought alloys	409	554	207	389	283
Scrap	432	588	259	100	61
Germany					
Unwrought	23 917	22 160	14 193	18 684	21 396
Unwrought alloys	409	179	175	316	112
Scrap	1 689	2 243	674	714	1 578
Greece					
Unwrought (a)	323	265	80	160	211
Hungary					
Unwrought (a)	328	320	208	231	156
Ireland, Republic of					
Unwrought (a)	249	389	100	157	117
Italy					
Unwrought	4 113	4 124	2 652	3 828	4 936
Unwrought alloys	504	777	360	1 074	533
Scrap	115	79	49	60	220
Netherlands					
Unwrought	7 858	11 003	7 071	13 967	11 303
Unwrought alloys	1 972	2 540	504	665	505
Scrap	607	503	380	606	524
Poland					
Concentrates	77	...	220	98	...
Unwrought (a)	1 838	1 857	1 102	1 317	1 579
Scrap	1 931	1 038	1 664	1 605	2 790
Portugal					
Unwrought	577	487	308	317	560
Unwrought alloys	419	130	103	100	19
Romania					
Unwrought (a)	137	127	114	85	125
Serbia					
Unwrought	129	83	49	60	72
Slovakia					
Unwrought (a)	2 260	2 276	2 059	2 087	2 120
Slovenia					
Unwrought (a)	101	87	69	118	70
Spain					
Unwrought	7 093	7 313	5 457	6 410	5 967
Unwrought alloys	167	261	243	172	428
Scrap	185	376	441	2 410	5 386
Sweden					
Unwrought (a)	720	555	364	435	189
Switzerland					
Unwrought (a)	1 241	1 093	800	863	737
Turkey					
Unwrought (a)	2 788	2 603	1 630	2 558	2 707

Imports continued					Tin
Country	2007	2008	2009	2010	2011
United Kingdom					
Concentrates	0	0	6	0	0
Unwrought	13 630	7 181	4 522	4 327	4 186
Unwrought alloys	525	400	370	365	396
Scrap	452	448	121	196	121

Notes

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

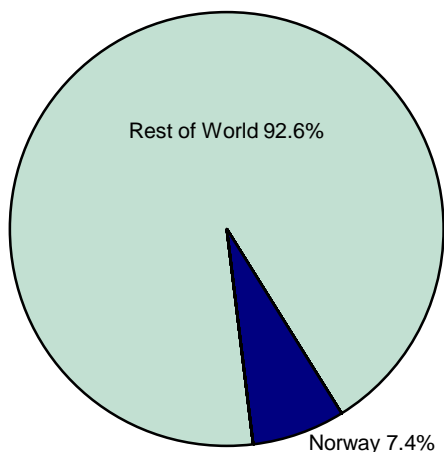
(a) Including alloys

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.

Canada was the world's largest producer in 2011, with 21 per cent of the total world output. The second largest was South Africa (11 per cent), followed by Australia (also 11 per cent), China (eight per cent) and Norway (seven per cent).

EU35 Production of titanium minerals 2011



Production of titanium minerals

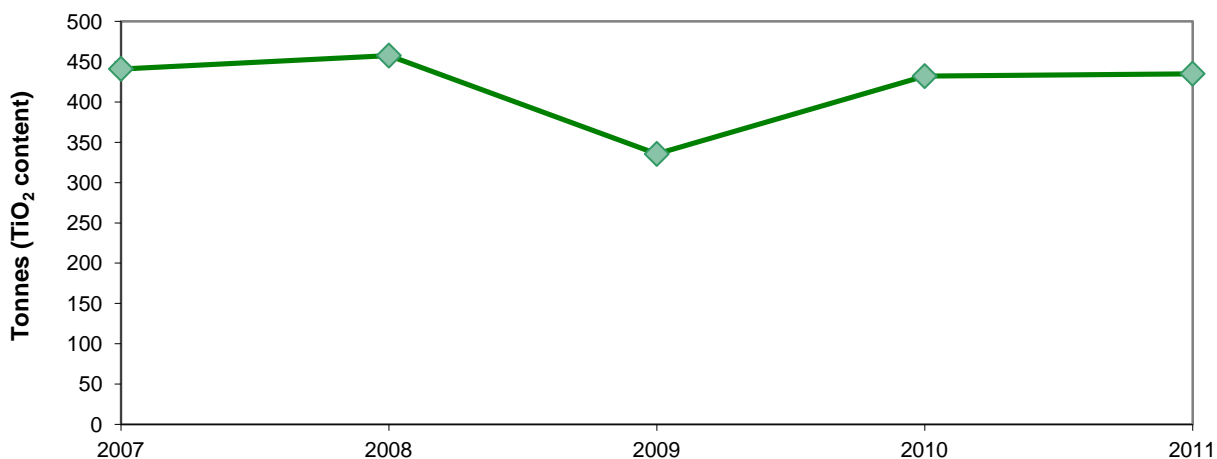
tonnes

Country	2007	2008	2009	2010	2011
Norway Ilmenite	882 000	915 000	671 000	864 000	870 000

Note

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

EU35 Production of titanium minerals 2007 - 11



Exports of titanium

Country	2007	2008	2009	2010	2011
Austria					
Metal	576	717	203	129	224
Oxides	4 885	6 444	5 344	5 956	4 794
Belgium					
Titanium minerals	129 501	100 134	58 654	106 478	116 859
Metal	2 070	1 157	1 087	895	1 405
Oxides	422 885	401 906	369 495	435 415	390 405
Titanium slag	3 209	5 085	...	...	...
Bulgaria					
Metal	28	835	2	—	849
Croatia					
Oxides	489	417	331	117	172
Czech Republic					
Titanium minerals	745	641	452	2 378	504
Metal	126	84	339	358	264
Oxides	43 166	42 860	46 753	45 842	45 437
Denmark					
Metal	162	152	102	196	125
Oxides	1 121	460	442	820	5 792
Estonia					
Metal	11	13	30	26	33
Oxides	1 491	579	158	49	164
Finland					
Oxides (a)	* 103 000	* 106 000	* 86 000	* 88 000	* 80 000
France					
Titanium minerals	2 242	93	150	283	73
Metal	5 112	5 391	4 523	4 907	5 333
Oxides	171 337	148 573	113 798	129 197	140 278
Germany					
Titanium minerals	776	3 322	6 864	22 384	18 932
Metal	8 713	8 278	5 367	9 351	13 954
Oxides	409 495	367 545	351 872	391 981	345 661
Greece					
Oxides	2 233	598	462	773	731
Hungary					
Oxides	991	1 402	1 120	1 942	1 484
Italy					
Metal	4 884	5 478	3 607	3 248	4 789
Oxides	26 242	25 982	23 508	27 450	26 181
Lithuania					
Oxides	341	1 230	502	1 167	965
Netherlands					
Titanium minerals	449	1 341	13 664	101 840	69 170
Metal	2 182	1 551	895	4 117	9 548
Oxides	64 544	15 544	36 179	31 385	11 305
Norway					
Titanium minerals (a)	* 435 000	* 435 000	* 350 000	* 465 000	* 441 000
Metal	117	339	227	231	343
Oxides (a)	* 199 000	* 217 000	* 207 000	* 35 000	* 35 000
Poland					
Metal	52	117	105	76	90
Oxides	21 776	21 509	20 937	20 996	23 401
Portugal					
Oxides	1 064	1 189	1 166	1 091	3 422
Romania					
Metal	650	2 469	541	960	550
Slovakia					
Metal	5	76	3	49	24
Slovenia					
Metal	37	40	23	171	346
Oxides	55 867	55 110	57 866	61 637	53 015
Spain					
Titanium minerals	232	155	25 892	2 405	650
Metal	1 431	947	1 018	1 928	1 698
Oxides	91 583	58 342	33 721	35 233	48 870

Titanium

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Sweden					
Metal	2 667	1 002	717	925	1 086
Oxides	17 047	19 992	15 921	20 567	18 331
Switzerland					
Metal	868	987	734	805	868
Oxides	1 133	1 276	1 203	1 466	1 666
Turkey					
Metal	—	49	47	85	95
Oxides	2 489	2 607	2 237	2 650	3 170
United Kingdom					
Titanium minerals	26	21	41	20	32
Metal	12 934	11 155	9 555	12 060	11 926
Oxides	212 068	222 503	203 873	208 518	223 190

Notes

- (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	2007	2008	2009	2010	2011
Austria					
Titanium minerals	451	520	362	477	580
Metal	3 851	2 455	1 346	1 381	2 590
Oxides	26 856	30 861	28 258	28 288	32 258
Belgium					
Titanium minerals	221 156	204 688	110 028	181 688	213 276
Metal	3 800	3 739	2 132	1 743	1 582
Oxides	144 760	132 327	108 582	* 314 200	114 760
Bulgaria					
Titanium minerals	712	42	105	506	486
Metal	78	203	65	19	46
Oxides	5 398	5 955	5 329	5 675	6 454
Croatia					
Oxides	3 244	2 989	2 697	3 000	2 911
Cyprus					
Oxides	1 243	1 603	1 189	1 299	1 141
Czech Republic					
Titanium minerals	179 323	193 858	140 394	155 485	146 778
Metal	1 086	1 122	918	779	1 333
Oxides	10 529	8 765	7 248	8 857	9 372
Denmark					
Metal	623	774	670	674	1 723
Oxides	19 514	17 055	17 511	20 427	23 296
Estonia					
Metal	393	97	50	82	5
Oxides	2 548	2 106	1 349	1 409	1 724
Finland					
Titanium minerals	20 578	26 200	8 794	...	...
Metal	88	97	87	60	66
Oxides	15 838	14 256	12 524	15 571	15 533
France					
Ilmenite	60 739	58 423	17 766	...	...
Other titanium minerals	71 292	12 531	11 964	(a) 50 893	(a) 67 259
Metal	10 521	10 036	7 282	7 766	10 026
Oxides	126 786	128 226	136 389	148 994	138 687
Titanium slag	104 682	100 782	92 290	15 218	246

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Germany					
Ilmenite	425 175	446 154	304 471	...	...
Other titanium minerals	200 512	279 407	212 735	(a) 838 768	(a) 794 043
Metal	19 385	19 449	11 649	12 919	20 233
Oxides	299 599	281 009	240 120	309 500	329 073
Titanium slag	112 474	76 107	42 042	164	2 499
Greece					
Titanium minerals	826	399	351	504	396
Metal	30	14	11	74	74
Oxides	27 284	23 260	19 289	19 003	19 447
Hungary					
Titanium minerals	(b)* 1 400	2 659	(b)* 1 200	2 677	2 410
Metal	138	31	216	84	134
Oxides	8 291	8 590	6 853	8 927	8 885
Iceland					
Metal	—	34	99	100	59
Ireland, Republic of					
Metal	362	1 154	507	414	202
Oxides	4 822	3 961	4 308	4 922	4 312
Italy					
Titanium minerals	136 274	102 909	74 338	98 978	111 842
Metal	8 609	7 155	3 352	4 497	9 420
Oxides	166 223	141 959	139 071	160 361	164 708
Latvia					
Oxides	781	3 112	562	739	693
Lithuania					
Oxides	1 328	980	1 259	1 947	2 081
Luxembourg					
Metal	339	165	66	456	1 842
Oxides	1 169	1 051	1 114	1 481	1 534
Macedonia					
Oxides	383	426	427	504	502
Malta					
Oxides	531	463	470	463	445
Netherlands					
Titanium minerals	103 580	87 769	* 100 000	238 199	196 960
Metal	4 295	1 073	1 224	5 330	6 094
Oxides	41 221	37 101	40 914	43 542	52 165
Norway					
Titanium minerals	17 600	73 307	29 809	45 018	25 003
Metal	637	937	389	412	723
Oxides	12 121	12 241	8 209	10 115	10 376
Poland					
Titanium minerals	100 002	91 208	84 396	105 384	99 055
Metal	2 122	451	264	616	2 020
Oxides	45 984	41 019	42 031	46 110	54 770
Portugal					
Titanium minerals	412	263	358	714	807
Oxides	19 545	18 800	18 456	20 486	19 813
Romania					
Titanium minerals	2 093	2 171	1 513	2 095	5 393
Metal	612	453	707	771	541
Oxides	11 132	9 127	7 151	8 733	10 571
Serbia					
Oxides	4 504	4 548	3 892	3 888	4 498
Slovakia					
Titanium minerals	17 242	...	0	0	1
Metal	250	329	130	956	2 271
Oxides	2 193	2 389	2 949	2 109	2 409
Slovenia					
Titanium minerals	14 903	34 930	32 789	25 081	54 387
Metal	348	257	233	400	964
Oxides	3 500	3 296	2 889	2 917	2 884
Titanium slag	53 245	65 180	66 818	...	39 644

Titanium

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Spain					
Ilmenite	121 898	119 467	26 512	...	...
Other titanium minerals	22 037	9 133	522	(a) 111 298	(a) 123 284
Metal	3 450	3 131	1 735	2 627	3 673
Oxides	123 132	138 275	93 267	91 822	90 581
Titanium slag	2 164	10 004	...	...	...
Sweden					
Titanium minerals	1 032	995	726	1 854	645
Metal	2 623	2 391	1 593	1 936	2 390
Oxides	65 872	61 890	53 071	61 191	62 054
Switzerland					
Metal	1 352	1 168	862	971	1 081
Oxides	20 455	19 550	17 086	19 725	22 198
Turkey					
Titanium minerals	* 9 000	7 762	5 628	7 390	9 454
Metal	19	163	188	298	357
Oxides	111 858	106 206	98 100	127 266	144 383
United Kingdom					
Titanium minerals	181 836	194 756	112 091	90 622	32 127
Metal	30 905	32 305	23 178	20 681	69 844
Oxides	74 708	58 747	53 864	59 460	62 311
Titanium slag	151 494	158 195	127 224	187 913	...

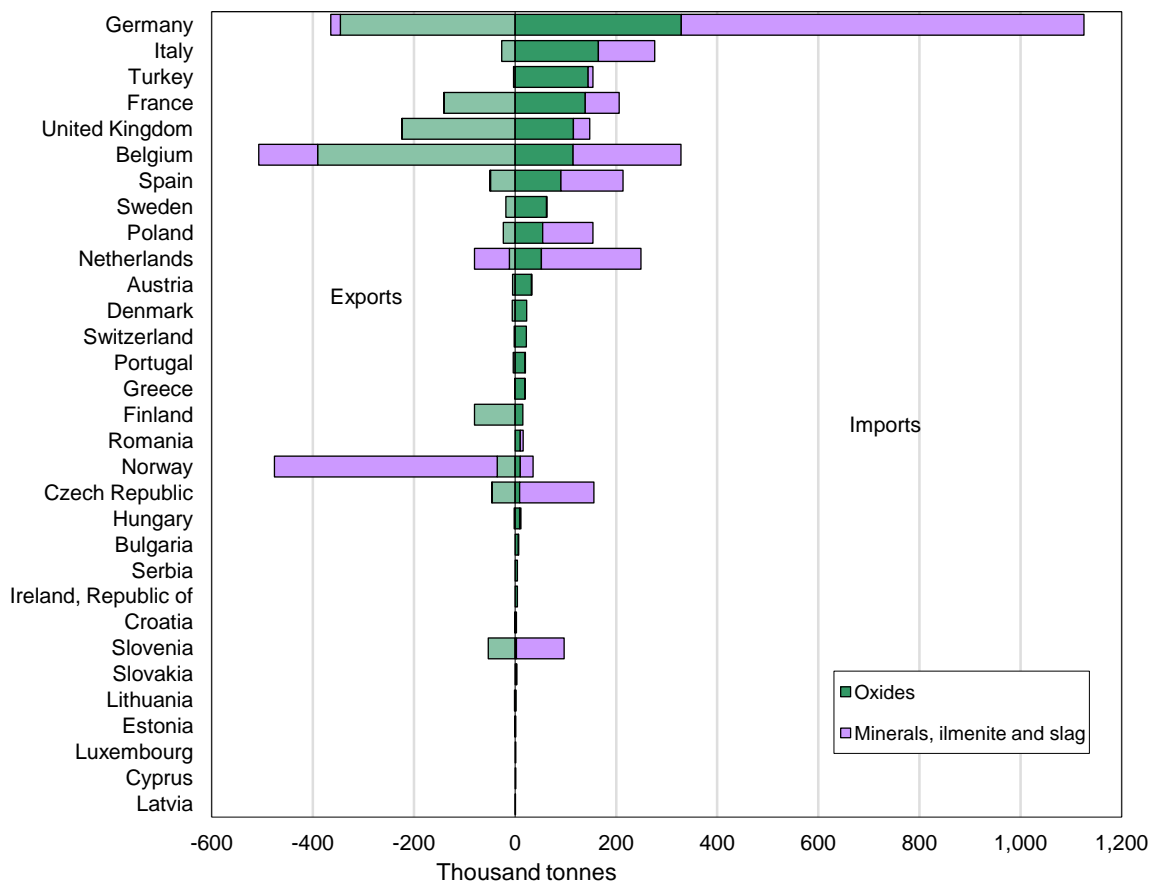
Notes

- (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 - EU35 trade in 2011

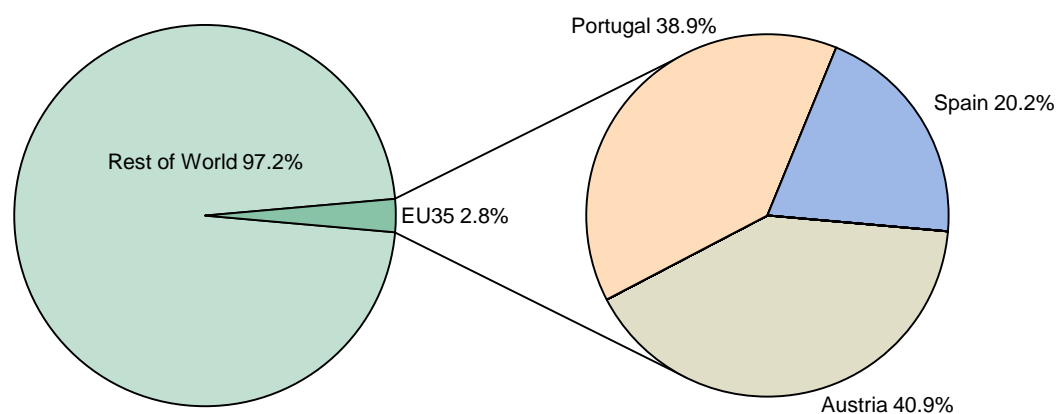


Tungsten

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 producer in 2011, with 82 per cent of the total world output. The second largest was Russia (six per cent), followed by Canada (three per cent), Bolivia (two per cent) and Rwanda (one per cent).

EU35 Mine production of tungsten 2011



Mine production of tungsten

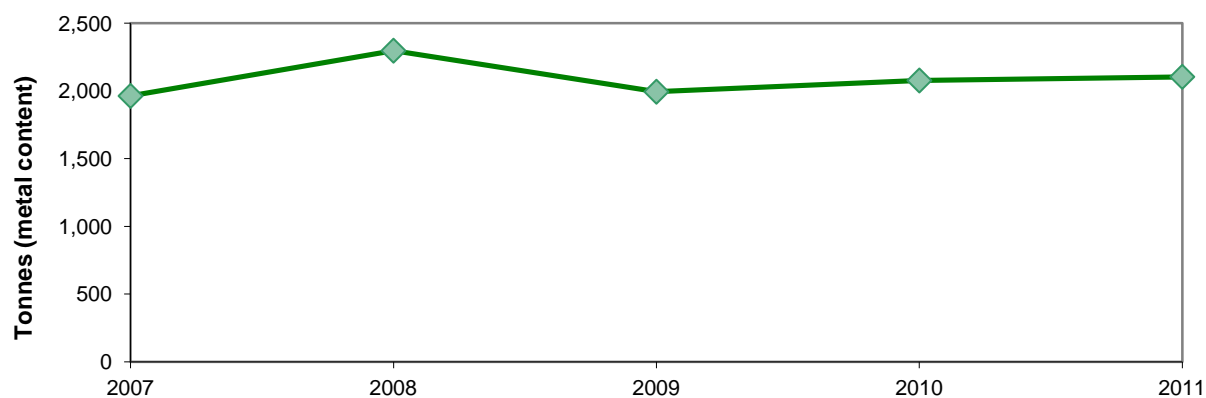
tonnes (metal content)

Country	2007	2008	2009	2010	2011
Austria	1 117	1 122	887	975	861
Portugal (a)	846	981	823	799	818
Spain	—	194	284	303	425
EU35 Total	1 963	2 297	1 994	2 077	2 104

Note

(a) Wolframite and scheelite

EU35 Production of tungsten 2007 - 11



Exports of tungsten

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Metal (a)	* 1 600	* 1 600	* 4 300	* 3 000	* 2 400
Belgium					
Ores and concentrates	...	62	120	27	406
Metal	381	405	422	723	368
Carbide	54	36	32	92	92
Bulgaria					
Metal	33	20	2	80	11
Czech Republic					
Metal	102	86	30	211	611
Carbide	605	592	307	803	903
Denmark					
Metal	112	121	91	113	118
Finland					
Metal	113	360	291	450	588
France					
Metal	1 148	676	398	473	589
Carbide	431	354	261	288	272
Germany					
Ores and concentrates	—	206	196	164	976
Metal	3 020	4 687	2 655	3 119	3 064
Ireland, Republic of					
Metal	180	10	—	59	42
Italy					
Metal	455	973	670	925	1 091
Luxembourg					
Metal	5	0	2	203	47
Netherlands					
Ores and concentrates	181	29	25	104	0
Metal	391	582	133	406	255
Poland					
Metal	76	143	136	154	179
Portugal					
Ores and concentrates	1 466	1 705	1 407	1 289	1 324
Metal	16	17	20	6	131
Spain					
Ores and concentrates	0	286	457	400	981
Metal	177	223	156	315	880
Sweden					
Ores and concentrates	3 192	75	96	—	21
Metal	234	328	431	289	218
Carbide	446	436	253	401	186
Switzerland					
Metal	392	400	239	476	398
Turkey					
Metal	33	99	213	139	237
United Kingdom					
Ores and concentrates	36	21	3	29	35
Metal	2 444	1 625	1 541	1 650	2 135
Carbide	303	51	80	41	597

Notes

- (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	2007	2008	2009	2010	2011
Austria					
Metal	548	435	369	632	1 471
Carbide	...	...	568	1 268	1 241

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Metal	510	401	326	402	321
Carbide	72	45	35	31	20
Bulgaria					
Metal	50	9	26	86	16
Czech Republic					
Metal	837	206	4 184	677	367
Carbide	...	...	...	150	219
Denmark					
Metal	113	110	105	51	41
Finland					
Metal	130	296	205	403	567
France					
Metal	823	898	547	867	1 027
Carbide	866	859	311	359	583
Germany					
Ores and concentrates	604	967	821	1 029	843
Metal	4 791	5 184	3 313	7 168	8 094
Carbide	2 678	2 526	1 333	2 544	3 105
Hungary					
Metal	41	54	31	54	67
Ireland, Republic of					
Metal	277	215	68	91	76
Carbide	184	158	108	68	186
Italy					
Metal	280	255	147	496	552
Carbide	361	350	103	279	440
Lithuania					
Metal	38	1	—	1	156
Luxembourg					
Carbide	1 110	983	465	7	2
Netherlands					
Ores and concentrates	875	457	(a)* 900	(a)* 1 200	(a)* 3 100
Metal	284	329	71	206	209
Carbide	36	94	42	18	15
Poland					
Metal	108	103	87	124	96
Portugal					
Metal	122	251	193	277	206
Carbide	119	169	46	110	106
Romania					
Metal	59	1 122	22	79	50
Slovakia					
Metal	17	55	43	366	5 398
Spain					
Ores and concentrates	1	11	147	44	15
Metal	914	731	681	426	216
Carbide	41	31	13	25	51
Sweden					
Metal	546	588	175	179	302
Carbide	876	904	233	1 308	2 050
Switzerland					
Metal	257	272	105	143	226
Turkey					
Metal	13	34	34	74	70
United Kingdom					
Ores and concentrates	2	11	35	2	25
Metal	2 925	1 865	1 477	1 676	1 999
Carbide	1 409	1 023	614	1 111	3 622

Notes

- (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 was confined to four countries in 2011: China (35 per cent of the total world output), South Africa (32 per cent), Russia (32 per cent) and Kazakhstan (two per cent). In the USA vanadium is a significant by-product from the refining of heavy crude oils.

Exports of vanadium

tonnes

Country	2007	2008	2009	2010	2011
Belgium					
Ores and concentrates	346	327	131	...	...
Pentoxide	10	8	47	80	...
Germany					
Pentoxide	1 250	1 173	...	...	...
Italy					
Ores and concentrates	527	217	385	...	...
Lithuania					
Ores and concentrates	346	358	...	...	...
Netherlands					
Pentoxide	157	45	102	122	186
Spain					
Pentoxide	5	4	26	22	774
Turkey					
Pentoxide	24	200	119	—	24
United Kingdom					
Pentoxide	697	589	487	694	6
Metal	2 182	2	18	23	...

Notes

(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	2007	2008	2009	2010	2011
Austria					
Vanadiferous residues	* 37 000	* 36 000	* 35 000	* 46 000	* 46 000
Ores and concentrates	543	460	...	...	...
Belgium					
Ores and concentrates	162	200	123	...	...
Pentoxide	64	38	94	123	95
Czech Republic					
Pentoxide	3 210	5 135	2 702	5 255	7 004
France					
Pentoxide	656	674	371	574	605
Germany					
Ores and concentrates	79	60	...	...	...
Pentoxide	1 071	879	(a)* 400	(a)* 1 000	(a) 700
Greece					
Ores and concentrates	...	...	80	...	...
Italy					
Ores and concentrates	...	255	18	...	...
Pentoxide	150	173	45	53	45

Imports continued					
	tonnes				
Country	2007	2008	2009	2010	2011
Netherlands					
Pentoxide	316	227	27	204	888
Spain					
Ores and concentrates	48	9	22	...	...
Pentoxide	45	43	50	115	52
United Kingdom					
Pentoxide	425	344	84	5	17
Metal	583	314	112	197	...

Notes

- (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

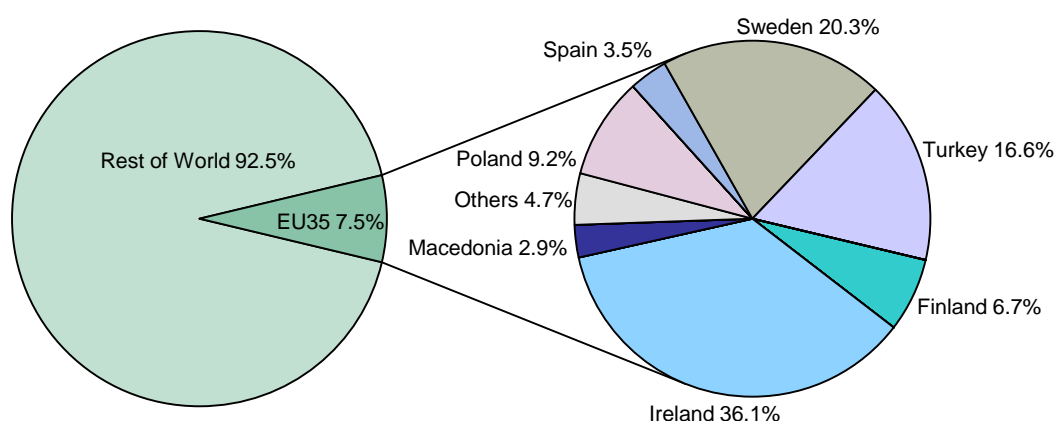
Zinc

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.

China was the world's largest producer of mined zinc in 2011, with 34 per cent of the total world output. The second largest was Australia (12 per cent), followed by Peru (ten per cent), USA and India (six per cent each).

China was also the world's largest producer of refined zinc in 2011, with 40 per cent of the total world output. The second largest was South Korea (six per cent), followed by India (also six per cent), Canada (five per cent) and Japan (four per cent).

EU35 Mine production of zinc 2011



Mine production of zinc

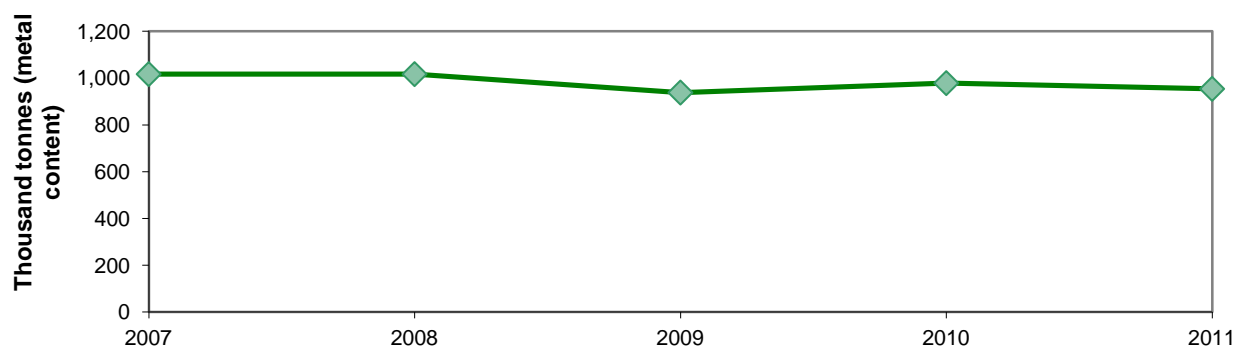
tonnes (metal content)

Country	2007	2008	2009	2010	2011
Bulgaria (a)	14 453	12 819	9 339	9 904	10 977
Finland	38 900	27 800	30 233	55 562	64 115
Greece	20 700	24 200	17 800	18 400	21 200
Ireland, Republic of	400 900	398 200	385 700	342 500	344 000
Macedonia	30 957	38 737	38 648	32 900	28 100
Poland	129 600	132 400	115 500	92 800	87 800
Portugal	24 380	37 900	501	6 422	4 227
Romania	849	14	* 3 000	* 5 000	* 5 000
Serbia	1 200	2 400	2 700	2 600	3 100
Spain	—	—	5 900	17 323	33 197
Sweden	214 576	187 987	192 502	198 687	194 021
Turkey	140 500	126 800	136 300	196 400	158 300
EU35 Total	1 017 015	989 257	938 123	978 498	954 037

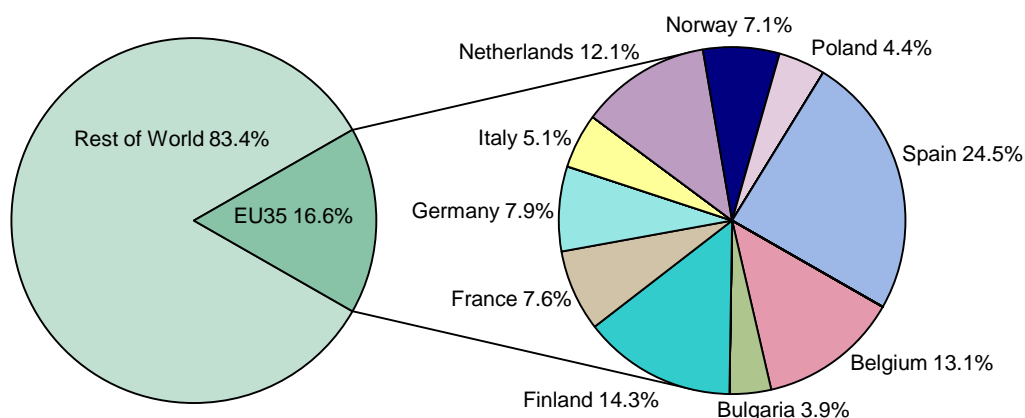
Note

(a) Metal content of ore

EU35 Mine production of zinc 2007 - 11



EU35 Production of slab zinc 2011

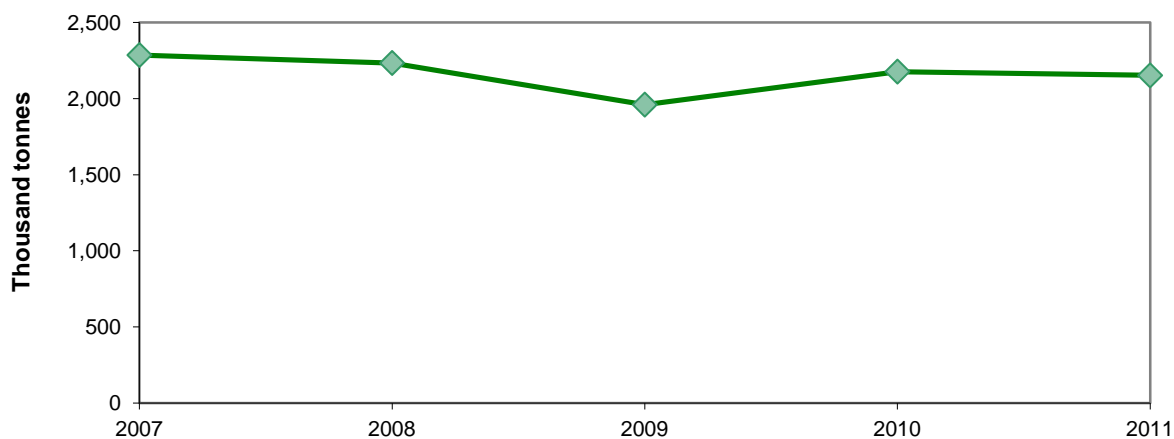


Production of slab zinc

tonnes

Country	2007	2008	2009	2010	2011
Belgium	254 000	251 000	137 000	281 000	282 000
Bulgaria	98 100	101 700	92 700	92 300	83 300
Finland	305 543	297 722	295 049	307 144	307 352
France	129 000	118 000	161 000	162 000	164 000
Germany	294 735	292 284	* 153 000	165 000	170 000
Italy	102 100	107 100	103 400	104 700	110 200
Netherlands	234 000	250 000	224 000	264 000	261 000
Norway	157 027	145 469	138 973	148 862	153 200
Poland	141 900	142 500	139 100	135 000	94 100
Romania	58 342	61 978	1 000	—	—
Serbia	2 000	—	—	—	—
Spain	509 000	466 000	515 000	517 100	527 100
EU35 Total	2 285 747	2 233 753	1 960 222	2 177 106	2 152 252

EU35 Production of slab zinc 2007 - 11



Exports of zinc

tonnes

Country	2007	2008	2009	2010	2011
Austria					
Unwrought (a)	14 682	13 794	5 703	8 532	9 776
Scrap	2 132	8 176	6 052	5 757	8 583
Belgium					
Ores and concentrates	479 796	733 794	785 125	749 582	725 335
Unwrought	22 015	8 359	13 590	155 654	296 197
Unwrought alloys	...	...	...	...	154 258
Scrap	40 866	15 585	16 644	14 540	11 652
Bulgaria					
Ores and concentrates	4 384	7 982	2 076	22	1 607
Unwrought (a)	90 573	96 678	87 008	81 332	71 894
Scrap	1 511	1 293	2 226	1 949	2 021
Croatia					
Scrap	683	700	708	518	676
Cyprus					
Scrap	1 746	...	118	90	46
Czech Republic					
Unwrought (a)	18 786	17 258	19 982	5 148	5 147
Scrap	2 981	2 705	2 716	4 798	4 189
Denmark					
Scrap	2 388	2 028	2 622	2 563	2 468
Estonia					
Scrap	725	2 860	1 065	509	637
Finland					
Ores and concentrates	...	1 238	1 426	22 479	50 656
Unwrought (a)	260 434	257 411	268 893	266 738	265 686
Scrap	1 274	964	1 012	1 369	1 215
France					
Ores and concentrates	51 781	78 398	39 350	49 652	54 609
Unwrought	29 305	31 601	64 773	79 727	105 934
Unwrought alloys	7 238	5 073	9 362	1 851	2 549
Scrap	56 200	43 770	45 986	51 755	42 736
Germany					
Ores and concentrates	612	1 835	888	1 674	73 980
Unwrought	77 443	70 724	63 165	52 483	55 518
Unwrought alloys	30 439	28 835	24 163	31 857	31 170
Scrap	59 297	51 801	68 648	74 208	75 168
Greece					
Ores and concentrates	14 890	43 003	21 311	14 660	36 016
Unwrought (a)	29 861	448	665	264	123
Hungary					
Scrap	3 716	1 902	2 978	2 821	2 314
Ireland, Republic of					
Ores and concentrates	412 703	404 303	594 268	588 143	660 259
Scrap	3 044	649	312	299	300
Italy					
Ores and concentrates	105 437	99 121	48 051	98 211	71 471
Unwrought	21 048	7 967	5 258	11 071	16 570
Unwrought alloys	6 689	2 857	3 491	6 377	9 385
Scrap	13 574	8 603	12 334	16 427	13 006
Latvia					
Scrap	757	443	975	587	459
Luxembourg					
Scrap	1 807	315	423	1 134	739
Macedonia					
Ores and concentrates	58 973	...	69 509	60 369	51 545
Scrap	874	576	479	739	313
Netherlands					
Ores and concentrates	13 939	0	425	12 182	132 344
Unwrought	243 354	244 789	133 994	166 281	122 532
Unwrought alloys	31 276	23 932	22 041	42 182	52 382
Scrap	67 010	19 815	* 11 900	32 543	25 629
Norway					
Unwrought	130 570	130 397	128 416	122 649	119 770
Unwrought alloys	13 899	9 227	6 107	19 889	29 094

Exports continued

tonnes

Country	2007	2008	2009	2010	2011
Poland					
Ores and concentrates	61 595	58 035	45 877	4 213	...
Unwrought	73 096	83 571	84 833	96 142	105 552
Unwrought alloys	1 829	3 606	4 699	6 280	6 939
Scrap	422	430	1 617	902	960
Portugal					
Ores and concentrates	40 950	75 414	371	7 438	2 201
Unwrought (a)	242	1 307	849	151	734
Scrap	3 345	2 910	1 646	940	755
Romania					
Ores and concentrates	4 043	503	24 528	15 375	17 592
Unwrought (a)	48 339	59 395	8 004	657	776
Scrap	1 348	442	1 615	711	597
Serbia					
Ores and concentrates	12 245	21 140	10 699	14 921	23 247
Scrap	272	63	330	120	67
Slovakia					
Unwrought	16 356	14 600	12 871	7 903	2 836
Unwrought alloys	7 147	10 412	11 365	13 075	7 001
Slovenia					
Unwrought (a)	1 557	1 937	1 469	2 725	918
Scrap	873	975	517	933	832
Spain					
Ores and concentrates	98 359	121 688	40 118	82 009	122 429
Unwrought	220 002	191 897	216 633	318 527	351 354
Unwrought alloys	66 155	92 781	62 544	91 054	35 318
Scrap	5 295	6 210	26 675	37 362	15 625
Sweden					
Ores and concentrates	405 682	389 473	395 616	362 085	374 501
Scrap	2 777	2 898	1 840	2 900	3 257
Switzerland					
Unwrought (a)	679	1 078	524	415	258
Scrap	2 408	2 445	2 574	2 582	2 846
Turkey					
Ores and concentrates	123 956	253 573	272 559	392 725	316 714
Unwrought	155	(a) 498	(a) 451	(a) 666	(a) 1 704
Scrap	281	468	1 929	1 536	2 997
United Kingdom					
Ores and concentrates	82	246	11 418	8 405	9 714
Unwrought	5 932	3 883	3 600	3 580	2 724
Unwrought alloys	33 799	28 408	13 578	14 561	12 737
Scrap	7 543	5 699	6 030	14 903	12 545

Notes

(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	2007	2008	2009	2010	2011
Austria					
Unwrought	65 391	61 877	37 864	37 560	47 394
Unwrought alloys	33 939	33 911	27 886	34 411	38 759
Belgium					
Ores and concentrates	1 100 875	(b)* 805 000	(b)* 444 500	1 129 207	1 182 797
Unwrought	208 819	205 745	237 741	189 980	280 492
Unwrought alloys	12 115	8 075	13 299	10 613	11 844
Scrap	59 769	40 657	61 433	68 233	66 665
Bulgaria					
Ores and concentrates	208 313	146 655	147 579	167 107	166 553
Unwrought (a)	3 330	5 095	2 480	1 761	2 765

Zinc

Imports continued

tonnes

Country	2007	2008	2009	2010	2011
Croatia					
Unwrought (a)	4 674	4 656	3 149	3 029	2 886
Czech Republic					
Unwrought	35 666	36 733	24 660	15 121	17 137
Unwrought alloys	11 992	11 344	7 155	11 653	10 590
Scrap	4 008	2 792	2 434	900	909
Denmark					
Unwrought	9 931	12 591	6 063	4 427	6 023
Unwrought alloys	1 345	910	771	1 310	763
Estonia					
Unwrought (a)	4 362	7 676	1 595	5 978	8 887
Finland					
Ores and concentrates	555 569	582 049	532 036	559 918	547 265
Unwrought (a)	4 513	4 242	3 705	4 374	1 471
France					
Ores and concentrates	259 750	238 502	241 976	222 580	234 060
Unwrought	166 110	164 172	128 674	131 993	151 988
Unwrought alloys	44 124	45 480	27 000	34 205	34 022
Scrap	7 247	3 694	4 604	3 003	3 853
Germany					
Ores and concentrates	357 692	383 789	271 554	285 331	344 106
Unwrought	316 603	305 075	285 965	380 807	398 086
Unwrought alloys	87 785	89 738	36 350	57 563	69 972
Scrap	19 586	17 395	16 782	23 694	25 853
Greece					
Unwrought (a)	58 708	28 996	25 422	22 534	11 358
Hungary					
Unwrought (a)	16 843	17 011	9 862	11 767	12 818
Ireland, Republic of					
Ores and concentrates	16	76 922	15	8	8
Unwrought (a)	7 687	5 185	2 210	2 104	2 358
Scrap	1	1 268	—	—	—
Italy					
Ores and concentrates	195 798	161 838	155 028	184 192	153 982
Unwrought	314 714	179 691	118 424	245 254	244 557
Unwrought alloys	51 514	81 350	22 194	34 595	39 554
Scrap	21 599	15 369	15 315	27 740	36 491
Latvia					
Unwrought (a)	664	1 256	830	383	249
Lithuania					
Unwrought (a)	627	563	190	460	1 049
Luxembourg					
Unwrought	9 841	5 831	6 049	9 232	6 819
Unwrought alloys	1 360	537	237	475	533
Macedonia					
Unwrought (a)	6 721	4 954	4 147	5 213	4 920
Netherlands					
Ores and concentrates	359 520	430 617	320 568	391 050	355 644
Unwrought	182 072	155 003	104 253	254 953	227 277
Unwrought alloys	38 602	24 062	15 791	19 827	13 356
Scrap	13 633	6 270	8 274	12 653	9 283
Norway					
Ores and concentrates	284 791	243 213	209 649	228 828	250 537
Unwrought (a)	2 167	3 286	1 612	1 376	1 013
Poland					
Ores and concentrates	127 720	150 283	130 258	115 561	97 225
Unwrought	31 838	26 811	18 498	53 983	49 569
Unwrought alloys	13 660	11 906	8 922	7 610	10 045
Scrap	4 445	6 378	3 907	7 188	10 421
Portugal					
Unwrought	16 367	19 551	12 830	15 757	13 299
Unwrought alloys	5 054	4 617	4 018	4 522	3 967
Romania					
Ores and concentrates	173 536	161 527	12	3	—
Unwrought (a)	13 135	7 394	10 523	16 664	17 006
Serbia					
Unwrought	5 966	8 209	4 178	4 846	5 275

Imports continued

Country	2007	2008	2009	2010	2011
Slovakia					
Unwrought (a)	44 959	41 003	28 863	37 266	34 536
Slovenia					
Unwrought	16 696	14 881	16 766	15 314	14 495
Unwrought alloys	11 711	8 938	6 180	5 850	7 374
Spain					
Ores and concentrates	1 257 304	1 114 634	909 078	1 003 388	977 695
Unwrought	21 634	26 779	16 091	7 583	16 841
Unwrought alloys	17 411	15 000	9 230	15 627	11 050
Scrap	6 601	7 396	3 127	10 935	23 205
Sweden					
Unwrought	21 570	29 211	29 750	37 524	30 598
Unwrought alloys	22 600	12 059	2 691	5 905	6 282
Scrap	1 697	1 696	1 208	226	336
Switzerland					
Unwrought	14 473	13 715	9 431	15 521	12 747
Unwrought alloys	2 700	2 471	1 549	2 276	2 158
Turkey					
Unwrought	136 916	147 215	137 765	182 598	201 409
Unwrought alloys	3 775	4 091	1 714	2 876	6 504
Scrap	1 913	1 381	181	161	44
United Kingdom					
Ores and concentrates (c)	164	257	119	574	426
Unwrought	122 458	119 911	84 594	97 066	85 516
Unwrought alloys	13 201	8 524	1 869	2 973	9 306
Scrap	30	103	344	447	339

Notes

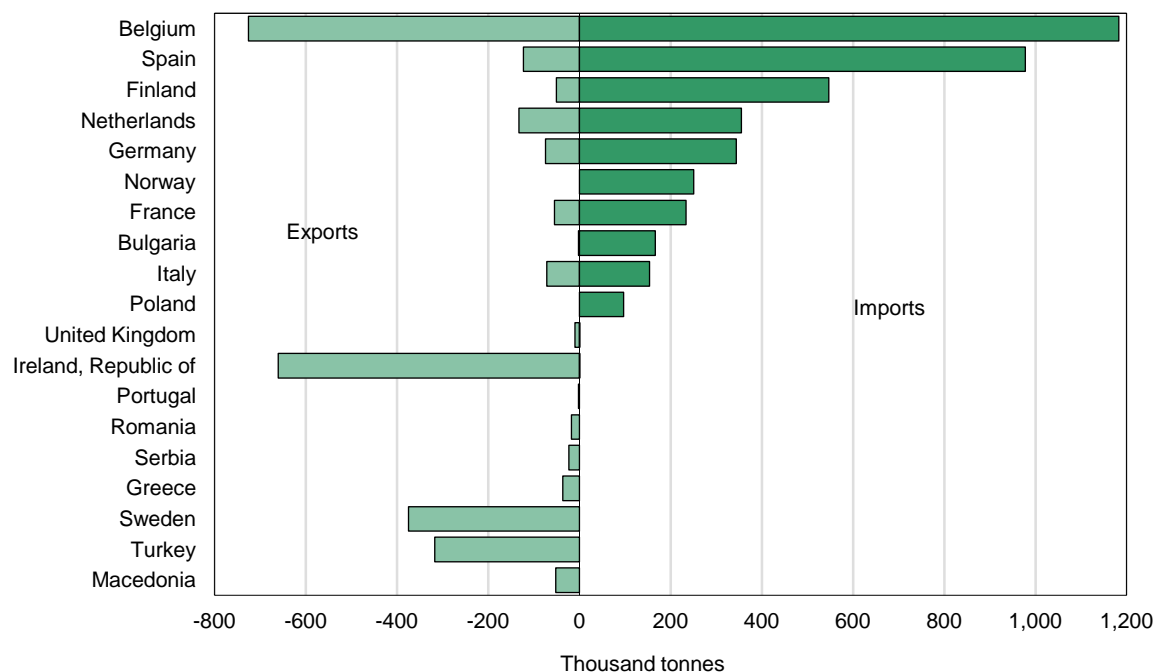
(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs etc

(a) Including alloys

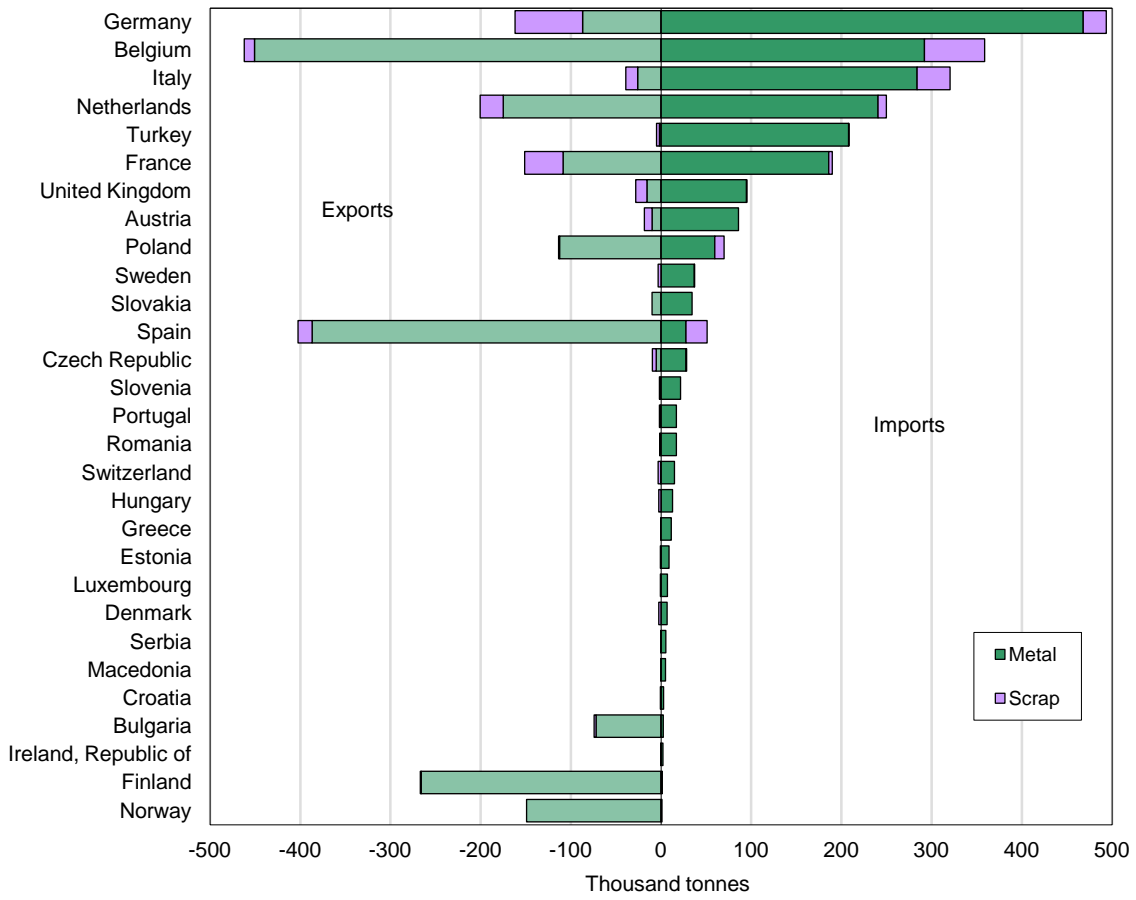
(b) BGS estimates, based on known exports from certain countries

(c) Zinc and mixed zinc-lead concentrates

Zinc ore - EU35 trade in 2011



Zinc - EU35 trade in 2011



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. Australia was the world's largest producer in 2011, with 47 per cent of the total world output. The second largest was South Africa (24 per cent), followed by Indonesia (eight per cent), USA (seven per cent) and Mozambique (three per cent).

Exports of zirconium

Country	2007	2008	2009	2010	2011
Belgium					
Concentrates	23 645	16 056	28 907	17 417	12 021
Metal	250	157	125	187	272
France					
Concentrates	1 832	1 440	1 243	2 044	4 973
Germany					
Concentrates (a)	* 16 900	* 12 000	* 7 300	* 10 800	* 10 800
Metal	514	625	386	384	792
Italy					
Concentrates	25 596	41 296	33 219	41 784	44 252
Metal	630	233	274	136	34
Netherlands					
Concentrates	14 539	8 223	4 639	11 091	13 351
Metal	43	19	0	26	61
Slovenia					
Concentrates	509	202	22	25	—
Spain					
Concentrates	11 803	14 151	13 581	28 166	29 952
Metal	200	525	746	51	3
Sweden					
Metal	83	144	118	90	137
United Kingdom					
Concentrates	1 096	716	742	1 405	1 661
Metal	54	61	19	90	102

Notes

(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	2007	2008	2009	2010	2011
Austria					
Concentrates	2 054	2 163	1 298	1 680	1 994
Belgium					
Concentrates	17 593	17 337	28 897	17 469	12 317
Metal	469	433	213	370	480
Bulgaria					
Concentrates	1 357	1 081	573	781	609
Czech Republic					
Concentrates	1 482	751	268	303	955
Metal	78	101	45	37	34
France					
Concentrates	47 719	55 030	25 087	25 310	35 922
Metal	570	456	553	326	687
Germany					
Concentrates (a)	* 32 737	* 27 047	* 24 985	* 26 967	* 29 153
Metal	880	791	664	798	676
Greece					
Concentrates	547	429	122	93	61

Zirconium

Imports continued

tonnes

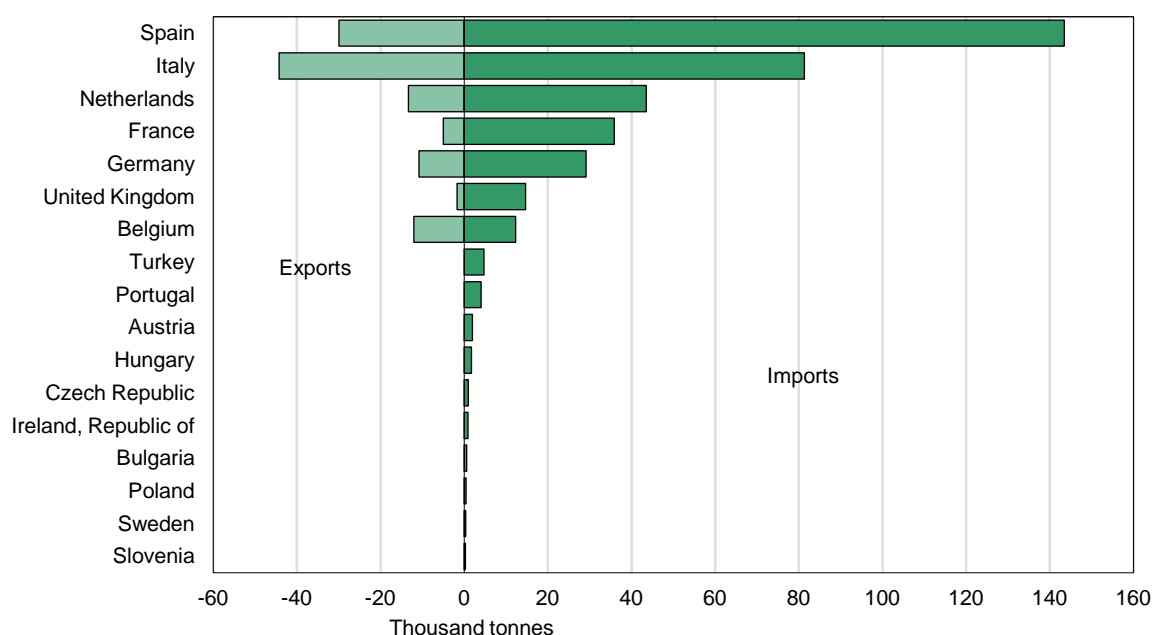
Country	2007	2008	2009	2010	2011
Hungary					
Concentrates	2 427	2 439	1 265	2 455	1 765
Ireland, Republic of					
Concentrates	425	3 976	1 323	16 162	886
Italy					
Concentrates	114 838	129 999	53 845	98 214	81 360
Metal	315	130	226	144	184
Netherlands					
Concentrates	20 462	24 694	11 027	23 981	43 560
Metal	199	240	* 70	188	297
Poland					
Concentrates	542	833	340	648	488
Portugal					
Concentrates	7 205	8 162	5 620	5 475	4 048
Romania					
Metal	16	136	301	35	41
Slovenia					
Concentrates	550	548	227	330	273
Spain					
Concentrates	138 442	152 604	95 103	149 442	143 493
Metal	65	136	83	132	97
Sweden					
Concentrates	825	832	248	419	368
Metal	219	185	218	220	120
Turkey					
Concentrates	980	4 844	2 918	4 823	4 770
United Kingdom					
Concentrates	11 007	13 092	6 386	8 450	14 709
Metal	446	521	203	411	616

Notes

(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 - EU35 trade in 2011



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 was the world's largest producer in 2011, with 41 per cent of the total world output. The second largest was USA (23 per cent), followed by Argentina (11 per cent), Chile (nine per cent) and Russia (seven per cent).

Production of borates

Country	2007	2008	2009	2010	2011
Turkey	1 997 163	2 139 224	1 687 102	1 910 000	2 273 122

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 2011, 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

Country	2007	2008	2009	2010	2011
Norway	312 000	346 000	270 000	327 000	330 000

Perlite

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

Greece was the world's largest producer in 2011, with 21 per cent of the total world output. The second largest was China (20 per cent), followed by Iran (16 per cent), Turkey and USA (12 per cent each).

Production of perlite

Country	2007	2008	2009	2010	2011
Bulgaria	13 900	7 400	14 800	—	—
Greece	1 100 000	1 000 000	862 935	760 000	720 000
Hungary	67 542	132 000	82 058	70 990	70 108
Italy	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Slovakia	20 000	25 000	25 000	23 000	23 000
Turkey	478 579	551 266	522 832	737 077	429 776

Selenium

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. Japan was the world's largest producer in 2011, with 31 per cent of the total world output. The second largest was Russia (13 per cent), followed by Germany (12 per cent), Belgium (ten per cent) and Kazakhstan (six per cent).

Production of selenium metal

tonnes

Country	2007	2008	2009	2010	2011
Belgium	* 200	* 200	* 200	* 200	* 200
Finland	52	65	59	73	86
Germany	* 250	* 250	* 230	* 250	* 250
Poland	85	82	80	79	85
Sweden	126	139	129	72	* 70

Strontium

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.

China was the world's largest producer in 2011, with 81 per cent of the total world output. The second largest was Spain (11 per cent), followed by Mexico (five per cent), Iran (two per cent) and Argentina (one per cent).

Production of strontium minerals

tonnes

Country	2007	2008	2009	2010	2011
Spain	142 512	138 590	57 466	83 035	97 102
Turkey	* 4 200	* 1 600	—	—	—

Note

(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.

Kazakhstan was the world's largest producer in 2011, with 36 per cent of the total world output. The second largest was Canada (16 per cent), followed by Australia (11 per cent), Niger (eight per cent) and Namibia (six per cent).

Mine production of uranium

tonnes (metal content)

Country	2007	2008	2009	2010	2011
Czech Republic	322	290	286	259	252
Germany	41	—	—	* 8	51
Romania	* 77	* 77	* 75	* 77	* 77

Note

(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.

China was the world's largest producer in 2011, with 49 per cent of the total world output. The second largest was India (29 per cent), followed by USA (11 per cent), Mexico (eight per cent) and Finland (two per cent).

Production of wollastonite

tonnes

Country	2007	2008	2009	2010	2011
Finland	16 364	15 600	9 200	12 100	11 500
Spain	10 918	10 100	7 000	6 000	7 417

Note

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

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