

European Mineral Statistics



2008–12



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

European Mineral Statistics 2008–12

A product of the World Mineral Statistics database

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Bibliographical reference

BRITISH GEOLOGICAL SURVEY. 2014. *European mineral
statistics 2008–12*. (Keyworth, Nottingham: British Geological
Survey.)

*Cover photograph: Skouriotissa Copper Mine, Nicosia District,
Cyprus operated by Hellenic Copper Mines Ltd. Photograph: T J
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ISBN 978-0-85272-768-3 (Paperback)

ISBN 978-0-85272-769-0 (Download)

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 –

¹ For this compilation 'Europe' is defined as the 28 EU members (as of 1 July 2013), the EU associates Norway and Switzerland and the EU candidate countries Iceland, Macedonia, Montenegro, Serbia and Turkey; this group of 35 countries is for convenience referred to as 'EU35'.

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

2. Construction minerals

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

Table 1 Construction minerals and their principal uses.

Aggregates, natural sand and gravel crushed rock (limestone, sandstone, igneous rock etc.)	<i>concrete, building sand and fill roadstone, fill, concrete</i>
Clay and shale	<i>bricks, pipes, tiles and cement manufacture</i>
Gypsum ²	<i>plaster, plasterboard and cement</i>
Limestone and dolomite	<i>crushed-rock aggregate, cement, other industrial and agricultural uses</i>
Building stone (dimension stone)	<i>this comprises almost any competent rock-type that may be used in the form of shaped and/or sized blocks for either structural or decorative purposes. It normally includes roofing stone and slate</i>

Aggregates suffer from the incompleteness of available production data and incompatibility of different countries' production statistics for this group. The European data for aggregates presented here represent an attempt at compiling reliable data and we would welcome any comments, amendments and corrections that users may wish to make. Other problems are related to the terminology used by different countries. These can include such categories as:

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

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

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

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

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 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 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, e.g. bauxite, chromite, ilmenite and also 'construction minerals' used for non-construction purposes, e.g. limestone. Unlike metals, where, whatever the extracted ore, the ultimate refined marketable product is produced to a few accepted standards for use in a variety of applications, industrial minerals depend to a great extent on their intrinsic 'as mined' physical and chemical qualities. Thus, for industrial minerals the two most significant variables are the grade of the deposit, that is how much useful mineral it contains, and the quality of the mineral, that is its suitability for specific end-uses. The quality may be a combination of physical properties such as particle size and shape, brightness, viscosity in suspension, specific gravity, hardness, strength and insulating properties. Several industrial minerals are valued purely for their chemical composition, for example, the essential plant nutrients potassium and phosphorus or the halogens chlorine and fluorine and many other elements used as chemical feedstocks.

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

A problem for the compiler of statistics on industrial minerals is that many of them cannot be precisely defined, but grade into one another. Thus, kaolin grades into kaolinitic clay, bauxite into high-alumina clay, dolomite into limestone, and this has implications for the comparability of statistics between deposits and countries. Many industrial minerals are produced and marketed in either a 'wet', 'dried' or 'calcined' forms; this can markedly affect the weight of the material. In this compilation every effort has been made to ensure comparability between countries in this respect. Some mineral-derived elements may be obtained by a number of mineral-based but different routes: sulphur is obtained, in Europe, as a by-product from oil refining, from sour gas, from base metal smelting and as a primary product from pyrites

(iron sulphide). Some semi-processed materials³ can be obtained from completely different sources, for example magnesia (magnesium oxide), which is produced from both magnesite and a combination of seawater and dolomite. Salt is a further example, being extracted as a solid (rock salt), as brine and by the evaporation of seawater.

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

Table 2 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 2012</i>
Feldspar	60.9	Turkey (31.8%), Italy, France, Spain
Kaolin	36.1	Germany (16.9%), Turkey, UK, Czech Republic
Salt	22.5	Germany (6.9%), Netherlands, UK, France
Bentonite	18.7	Greece (8.0%), Turkey, Germany
Magnesite	15.4	Turkey (4.1%), Austria, Spain, Slovakia
Diatomite	14.8	Denmark (5.6%), France, Spain, Czech Republic
Gypsum	14.1	Spain (4.5%)
Talc	13.9	Finland (5.1%), France
Potash	12.8	Germany (10.0%)
Mica	12.0	France (5.7%), Finland
Barytes	3.7	Turkey (2.6%)
Fluorspar	3.3	-

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.

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

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.

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

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.

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 2012 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 2012</i>
Chromium	10.6	Turkey (8.8%), Finland
Silver	8.1	Poland (4.6%), Sweden
Zinc	7.3	Ireland (2.5%), Turkey, Sweden
Titanium	6.7	Norway (6.7%)
Lead	6.1	Poland (1.4%), Sweden, Turkey
Copper	5.8	Poland (2.5%)
Nickel	3.5	Greece (1.1%), Finland, Macedonia
Tungsten	2.6	Portugal (1.0%)
Gold	2.1	Turkey (1.1%)
Iron	1.3	–
Aluminium (bauxite)	1.1	–

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 there are exports 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 2012 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 2012</i>
Coal	8.9	Germany (2.5%), Poland, Turkey
Natural gas	8.2	Norway (3.3%), Netherlands, United Kingdom
Petroleum	4.3	Norway (2.4%), United Kingdom
Uranium	0.6	-

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Gold	223	Tantalum	326
Graphite	227	Tin	327
Gypsum	230	Titanium	331
Iodine	235	Tungsten	336
Iron ore	237	Uranium	353
Iron and steel	240	Vanadium	340
Kaolin	257	Wollastonite	353
Lead	260	Zinc	342
Lithium	266	Zirconium	349
Magnesia	269		

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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Acknowledgements

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

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

Specialist commodity organisations which have kindly allowed information to be reproduced include the International Copper Study Group, the International Lead and Zinc Study Group, the International Nickel Study Group, 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*; Mining Journal, *Country and Commodity Reports*; World Bureau of Metal Statistics, *World Metal Statistics* and *Metallstatistik*; publications of the Interstate Statistical Committee of the CIS, the United States Geological Survey, and the United Nations Statistics Division.

In addition, information has been obtained from the websites of the following organisations, companies, statistical offices and government departments: Agnico Eagle Mines; Aluminium de Grece; BP Plc; Dragon Mining; Endomines; Eurozinc Mining Corporation; Inmet Mining; Lapland Gold Miners; Lundin Mining; New Boliden; Norsk Hydro; Nyrstar; Outokumpu; Rio Narcea; Rio Tinto; Talvivaara; Xstrata; Energy Information Agency; European Aggregates Association; Eurofer; Eurostat; Kaolin & Plastic Clays Europe; World Nuclear Association; World Steel Association; Vereinigung der Österreichischen 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; EIA – Greece Crude Petroleum, Greece; National Statistical Service of Greece; Federacciai, Italy; Unione Petrolifera, Italy; Istituto Nazionale di Statistica, Italy; Statec, Luxembourg; Centraal Bureau voor de Statistiek, Netherlands; Staatstoezicht op de Mijnen, Netherlands; Netherlands Oil and Gas Portal; Statistisk Sentralbyra, Norway; Geological Survey of Norway; Norwegian Petroleum Directorate; Instituto Nacional de Estatistica, Portugal; Ministry of Agriculture, Norway; Vimetco, Romania; Statistical Office of the Republic of Slovenia; Unesid, Spain; Sveriges Geologiska Undersokning, Sweden; Jernkontoret, Sweden; Statistiska Centralbyran, Sweden; CemSuisse, Switzerland; Department for Business, Innovation and Skills, United Kingdom; Department of Energy and Climate Change, United Kingdom; Office for National Statistics, United Kingdom; The Crown Estate, United Kingdom.

Units

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

tonnes $\times$ 0.9842 = long tons
tonnes $\times$ 1.1023 = short tons
kilograms $\times$ 2.2046 = pounds
kilograms $\times$ 32.1507 = troy ounces
cubic metres $\times$ 35.3147 = cubic feet
1 tonne of crude petroleum equals on average 7 barrels of crude petroleum
1 flask mercury = 34.5 kilograms
1 metric ton unit = 10 kilograms

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

Symbols

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

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 attapulgite, a mineralogically distinct clay mineral but exhibiting similar properties

Bentonite and fuller's earth – exports and imports

- (1) See notes 1 - 3 under production
- (2) The figures refer to natural and sodium-exchanged bentonite, Harmonised System 2508.10
- (3) Activated bentonite and fuller's earth, Harmonised System 3802.90 are excluded
- (4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Harmonised System 3802.90, e.g. Italy, but these are not included
- (5) From 2007 Harmonised System 2508.20, previously used for fuller's earth, is no longer available

Bismuth – mine production

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

Bromine – exports and imports

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

Cadmium – production

- (1) Data exclude secondary metal

Chromium – exports and imports

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

Coal – production

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

Coal – exports

- (1) Excludes bunker shipments

Cobalt metal – production

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

Copper – smelter production

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

Refined copper – production

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

Copper – exports and imports

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

Diamond – exports and imports

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

Gold – mine production

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

Gold – exports and imports

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

Graphite – production

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

Graphite – exports and imports

- (1) Excluding synthetic graphite

Gypsum – production

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

Gypsum – exports & imports

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

Pig iron – production

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

Crude steel – production

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

Iron, steel and ferro-alloys – exports and imports

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

Refined Lead – production

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

Lead – exports and imports

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

Magnesite and magnesite – exports and imports

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

Manganese – exports and imports

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

Mercury – production

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

Mica – exports and imports

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

Molybdenum – exports and imports

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

Nickel – smelter/refinery production

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

Nickel – exports and imports

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

Crude petroleum – production

- (1) The figures include natural gas liquids

Natural gas – production

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

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 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	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel (a)	tonnes	32 440 624	30 238 150	30 182 855	35 507 353	31 285 739
Crushed rock (a)	tonnes	33 867 686	29 784 794	24 399 380	26 866 150	26 348 996
Cement						
Cement, clinker	tonnes	287 911	160 223	54 369	131 734	* 130 000
Cement, finished	tonnes	6 131 257	4 847 862	4 499 402	4 291 449	4 162 406
Copper, refined	tonnes	106 700	96 200	113 700	112 500	95 000
Graphite (b)	tonnes	250	750	420	925	219
Gypsum (c)	tonnes	1 087 259	910 945	872 273	815 438	791 961
Iron ore (d)	tonnes	2 032 671	2 002 131	2 068 853	2 206 910	2 142 255
Pig iron	tonnes	5 795 000	4 353 000	5 621 000	5 815 000	5 751 000
Crude steel	tonnes	7 594 000	5 662 000	7 206 000	7 474 000	7 421 000
Ferro-alloys						
Ferro-molybdenum	tonnes	4 500	4 000	4 000	4 000	4 000
Ferro-nickel	tonnes	2 000	2 500	2 500	2 500	2 500
Ferro-vanadium	tonnes	6 300	6 200	8 000	8 000	8 000
Kaolin	tonnes	16 460	18 148	18 914	18 897	* 14 000
Lead, refined	tonnes	26 900	22 200	25 500	26 200	24 504
Magnesite	tonnes	837 476	544 716	757 063	867 912	778 810
Nickel, smelter/refinery	tonnes	500	700	1 000	1 000	1 000
Crude petroleum	tonnes	861 639	905 031	875 969	838 052	837 561
Natural gas	million m ³	1 544	1 559	1 713	1 591	1 729
Salt						
Rock salt	tonnes	503	50	95	169	222
Salt in brine	tonnes	866 674	1 035 044	1 071 842	1 150 474	3 193 216
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	48 024	48 624	40 512	48 612	47 572
Talc	tonnes	154 577	111 388	138 367	132 018	134 665
Tungsten	tonnes (metal content)	1 122	887	975	861	706

Note(s)

(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	2008	2009	2010	2011	2012
Primary aggregates	tonnes	3 130 358	2 634 211	2 828 621	2 646 753	2 387 082
Aluminium and bauxite						
Bauxite	tonnes	1 202	546	1	897	11 944
Unwrought	tonnes	4 120	2 332	3 236	2 344	2 465
Unwrought alloys	tonnes	109 757	98 966	151 559	209 748	211 491
Scrap	tonnes	90 825	118 028	122 057	105 138	128 589
Barytes	tonnes	2 440	1 276	345	618	766
Bentonite and fuller's earth						
Bentonite	tonnes	5 225	4 350	3 447	4 954	4 513
Cement						
Cement clinkers	tonnes	243 906	146 991	46 560	173 312	121 529
Portland cement	tonnes	344 338	272 440	213 082	330 710	299 060
Other cement	tonnes	82 570	56 934	50 592	25 432	21 521
Chromium						
Ores and concentrates	tonnes	833	333	4	1 163	413
Metal	tonnes	6 596	5 845	10 245	2 138	565

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Cobalt						
Metal	tonnes	31	60	72	60	111
Copper						
Matte and cement	tonnes	719	3 109	960	0	—
Unwrought, unrefined	tonnes	75	217	7 636	7 780	1 049
Unwrought, refined	tonnes	114 903	115 480	135 132	128 551	124 897
Unwrought alloys	tonnes	938	1 058	804	690	528
Scrap	tonnes	35 582	50 748	52 702	55 454	60 033
Diamond						
Unsorted	Carats	£71 000	£189 000	£729 000	£3 302 000	£170 000
Gem, cut	Carats	£5 778 000	£4 053 000	£3 564 000	£6 211 000	£3 657 000
Dust	Carats	£165 000	£260 000	£225 000	£66 000	£34 000
Diatomite	tonnes	3 043	3 286	3 467	2 756	3 550
Feldspar	tonnes	15 194	14 025	13 474	11 807	11 452
Gold						
Metal	kilograms	18 700	18 800	27 800	22 500	18 000
Waste and scrap	kilograms	2 200	2 700	5 900	2 900	1 600
Graphite	tonnes	8 853	6 260	9 518	9 936	5 562
Gypsum						
Crude	tonnes	26 402	20 694	19 124	23 007	18 485
Calcined	tonnes	89 906	78 839	55 927	76 548	79 280
Iodine	kilograms	139	339	564	413	10 652
Iron, steel and ferro-alloys						
Pig iron	tonnes	7 539	2 354	4 476	3	74
Ferro-alloys	tonnes	7 541	5 953	2 618	1 690	2 291
Silicon metal	tonnes	5 412	4 795	7 403	597	1 643
Ingots, blooms, billets	tonnes	284 063	187 410	190 343	293 647	238 922
Scrap	tonnes	1 351 725	1 067 926	1 034 398	950 865	1 008 503
Kaolin	tonnes	2 445	8 954	27 908	6 588	6 958
Lead						
Unwrought	tonnes	13 844	12 512	16 427	15 619	13 329
Scrap	tonnes	600	2 173	871	729	983
Lithium						
Carbonate	tonnes	28	10	170	166	9
Magnesite and magnesite						
Magnesite	tonnes	602	1 746	989	780	774
Magnesia	tonnes	28 779	26 716	39 589	79 519	71 453
Mercury	kilograms	200	2 000	(a)* 3 300	(a)* 1 600	(a)* 500
Mica	tonnes	4 274	3 328	4 303	4 245	4 024
Molybdenum						
Metal (a)	tonnes	* 3 000	* 1 800	* 2 300	* 2 800	* 2 500
Natural gas	tonnes	2 812 303	2 164 960	2 645 056	2 945 349	1 995 157
Nickel						
Unwrought (b)	tonnes	225	265	208	234	351
Scrap	tonnes	1 910	1 775	1 606	2 709	2 633
Platinum metals						
Platinum and platinum metals	kilograms	£52 298 000	£38 485 000	£83 434 000	£110 119 000	£105 895 000
Waste and scrap	kilograms	£621 000	£295 000	£1 070 000	£757 000	£733 000
Potash						
Potassic fertilisers	tonnes	14 613	13 843	20 259	19 304	21 653
Rare earths						
Metals	tonnes	373	244	258	452	500
Cerium compounds	tonnes	2 702	2 035	1 936	1 167	888
Other rare earth compounds	tonnes	8 508	8 437	8 658	4 902	5 696
Salt	tonnes	388 681	491 981	500 126	392 506	404 069
Silver						
Metal	kilograms	95 000	98 600	100 300	136 000	155 200
Sulphur and pyrites						
Pyrites	tonnes	2 672	1 740	2 794	2 887	2 579
Sulphur	tonnes	3 292	472	90	140	131
Sulphur, sublimed and precipitated	tonnes	3 906	7 423	1 145	746	2 138
Talc	tonnes	135 390	106 423	106 271	115 967	121 264
Tantalum and niobium						
Tantalum	tonnes	20	35	27	29	21
Tin						
Unwrought (b)	tonnes	177	71	60	98	103
Scrap	tonnes	141	53	49	56	54

Austria

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Titanium						
Metal	tonnes	717	203	129	224	317
Oxides	tonnes	6 444	5 344	5 956	4 794	3 965
Tungsten						
Metal (a)	tonnes	* 1 600	* 4 300	* 3 000	* 2 400	* 2 200
Zinc						
Unwrought (b)	tonnes	13 794	5 703	8 532	9 776	6 410
Scrap	tonnes	8 176	6 052	5 757	8 583	8 591

Note(s)

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

(b) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	3 447 013	2 924 359	2 284 169	2 184 095	2 521 253
Aluminium and bauxite						
Bauxite	tonnes	21 727	2 370	8 489	7 842	6 169
Alumina	tonnes	55 639	27 193	47 681	53 232	40 520
Alumina hydrate	tonnes	20 205	13 219	12 914	12 821	14 603
Unwrought	tonnes	154 792	103 145	177 751	197 795	131 764
Unwrought alloys	tonnes	218 902	175 583	239 493	280 502	314 594
Scrap	tonnes	170 315	168 055	268 845	282 707	304 272
Antimony						
Metal	tonnes	63	64	37	214	267
Oxide	tonnes	245	192	249	204	156
Barytes	tonnes	6 234	2 733	3 115	4 711	5 157
Bentonite and fuller's earth						
Bentonite	tonnes	68 703	66 575	90 229	83 313	91 208
Bismuth						
Metal	tonnes	148	80	130	138	139
Bromine	kilograms	488 000	65 300	318 400	238 900	384 600
Cement						
Cement clinkers	tonnes	456 127	404 998	407 616	393 132	297 009
Portland cement	tonnes	753 529	639 545	637 550	913 116	797 976
Other cement	tonnes	40 766	52 715	71 535	60 349	54 115
Chromium						
Ores and concentrates	tonnes	42 008	25 891	54 945	20 921	33 317
Metal	tonnes	8 006	4 325	6 109	7 868	4 854
Coal						
Anthracite	tonnes	4 388	3 454	3 774	5 760	5 932
Other coal	tonnes	4 114 518	4 079 423	3 614 354	3 359 294	3 339 262
Lignite	tonnes	46 392	72 734	68 777	74 609	75 705
Briquettes	tonnes	26 474	30 538	34 999	35 695	26 598
Cobalt						
Metal	tonnes	740	331	653	718	730
Oxides	tonnes	40	5	10	9	8
Copper						
Unwrought, unrefined	tonnes	39 590	24 445	36 218	44 412	42 637
Unwrought, refined	tonnes	8 855	4 868	10 361	16 680	8 374
Unwrought alloys	tonnes	1 866	1 617	1 412	1 376	2 183
Scrap	tonnes	113 109	134 063	145 903	130 675	127 187
Diamond						
Unsorted	Carats	£1 648 000	£543 000	£729 000	£3 371 000	£406 050
Gem, cut	Carats	£8 881 000	£9 795 000	£9 838 000	£19 112 000	£10 309 000
Industrial	Carats	£473 000	£313 000	£193 000	£5 500	£149 000
Dust	Carats	33 000 000	17 000 000	30 000 000	38 000 000	30 500 000
Diatomite	tonnes	12 561	16 327	13 324	12 798	12 452
Feldspar	tonnes	1 928	1 933	2 433	2 804	2 442
Fluorspar	tonnes	3 405	1 956	3 490	2 911	2 935

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Gold						
Metal	kilograms	72 300	86 500	56 600	63 500	47 300
Waste and scrap	kilograms	400	1 700	1 400	2 400	3 300
Graphite	tonnes	30 863	4 622	18 501	21 867	9 272
Gypsum						
Crude	tonnes	10 118	12 098	22 432	84 817	36 806
Calcined	tonnes	67 712	73 588	70 850	72 696	77 931
Iodine	kilograms	139 700	204 100	213 000	198 500	147 200
Iron ore (a)	tonnes	7 996 632	6 095 762	9 309 860	9 966 338	9 628 923
Iron, steel and ferro-alloys						
Pig iron	tonnes	43 663	30 084	25 355	30 367	18 706
Sponge and powder	tonnes	56 471	13 980	13 537	18 585	90 782
Ferro-chrome	tonnes	47 748	20 400	29 355	38 422	35 000
Ferro-silico-magnesium	tonnes	430	79	132	150	97
Ferro-manganese	tonnes	36 491	18 962	17 840	21 671	21 540
Ferro-silico-manganese	tonnes	22 322	17 927	22 976	19 931	18 862
Ferro-molybdenum	tonnes	1 552	801	742	1 402	1 503
Ferro-nickel	tonnes	61	1	...	973	906
Ferro-niobium	tonnes	1 125	665	1 061	1 191	1 865
Ferro-phosphorus	tonnes	2 011	1 095	1 232	2 497	610
Ferro-silicon	tonnes	27 850	12 825	27 063	33 709	38 402
Ferro-titanium and ferro-silico-titanium	tonnes	879	388	471	630	607
Ferro-tungsten and ferro-silico-tungsten	tonnes	1 277	208	552	715	624
Ferro-vanadium	tonnes	289	32	166	65	300
Other ferro-alloys	tonnes	1 590	1 764	3 549	4 806	3 067
Silicon metal	tonnes	15 601	7 288	11 497	10 180	7 189
Ingots, blooms, billets	tonnes	191 426	46 762	159 527	186 929	196 328
Scrap	tonnes	1 629 170	1 196 327	991 574	1 016 301	1 007 906
Kaolin	tonnes	226 682	192 860	194 396	187 831	171 310
Lead						
Unwrought	tonnes	27 475	21 580	19 391	31 675	29 938
Lithium						
Carbonate	tonnes	333	327	402	463	359
Magnesite and magnesite						
Magnesite	tonnes	2 319	937	848	1 512	1 069
Magnesia	tonnes	248 037	21 708	272 232	214 788	180 117
Manganese						
Ores and concentrates	tonnes	215	184	152	334	222
Metal	tonnes	14 275	11 512	16 696	21 123	21 692
Mercury	kilograms	587	360	383	200	294
Mica	tonnes	857	492	874	656	625
Molybdenum						
Metal	tonnes	1 502	430	548	951	440
Nickel						
Unwrought (b)	tonnes	10 511	4 142	6 894	9 231	8 830
Oxides	tonnes	82	11	15	8	247
Scrap	tonnes	1 164	367	440	527	1 917
Crude petroleum	tonnes	7 945 639	7 428 183	6 770 069	7 358 582	7 463 478
Natural gas	tonnes	7 136 000	7 566 509	8 697 934	9 390 448	10 043 171
Phosphate rock	tonnes	(c)* 158 000	(c)* 58 000	(c)* 160 000	61 030	(c)* 6 500
Platinum metals						
Platinum and platinum metals	kilograms	700	1 600	1 400	4 100	500
Waste and scrap	kilograms	100	—	100	21 400	1 100
Potash						
Sulphate	tonnes	10 432	4 241	15 074	9 595	15 636
Chloride	tonnes	119 347	28 000	105 299	102 028	132 302
Other potassic fertilisers	tonnes	25 862	9 139	18 201	9 418	12 312
Rare earths						
Metals	tonnes	561	269	550	325	442
Cerium compounds	tonnes	3 487	1 985	1 766	1 310	696
Other rare earth compounds	tonnes	3 589	2 471	3 375	1 646	802
Salt	tonnes	105 335	230 979	293 799	291 187	162 790
Sillimanite minerals	tonnes	2 639	1 353	2 089	2 224	3 093
Silver						
Metal	kilograms	441 900	431 500	481 800	804 000	331 500

Austria

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Sulphur and pyrites						
Pyrites	tonnes	3 754	1 614	3 154	3 321	3 340
Sulphur	tonnes	89 038	68 881	75 065	70 892	49 910
Sulphur, sublimed and precipitated	tonnes	17 842	14 961	15 331	22 109	16 997
Talc	tonnes	68 797	37 648	74 554	93 985	86 891
Tantalum and niobium						
Tantalum	tonnes	—	—	17	4	5
Tin						
Unwrought (b)	tonnes	2 679	1 915	2 923	3 403	3 186
Titanium						
Titanium minerals	tonnes	520	362	477	580	284
Metal	tonnes	2 455	1 346	1 381	2 590	3 130
Oxides	tonnes	30 861	28 258	28 288	32 258	21 255
Tungsten						
Metal	tonnes	435	369	632	1 471	1 017
Carbide	tonnes	...	568	1 268	1 241	1 076
Vanadium						
Vanadiferous residues	tonnes	* 36 000	* 35 000	* 46 000	* 46 000	* 46 000
Ores and concentrates	tonnes	460	...	...	...	...
Zinc						
Unwrought	tonnes	61 877	37 864	37 560	47 394	51 634
Unwrought alloys	tonnes	33 911	27 886	34 411	38 759	34 920
Scrap	tonnes	210	596	298	4 827	9 832
Zirconium						
Concentrates	tonnes	2 163	1 298	1 680	1 994	1 344

Note(s)

(a) Including burnt pyrites

(b) Including alloys

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

Belgium

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	* 11 000 000	* 16 000 000	* 14 000 000	* 15 000 000	* 15 000 000
Crushed rock	tonnes	* 42 000 000	* 43 000 000	* 44 000 000	* 49 000 000	* 50 000 000
Arsenic	tonnes	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Cement						
Cement, clinker	tonnes	...	1 123 722	858 871	* 800 000	726 690
Cement, finished	tonnes	7 135 000	6 113 000	5 990 000	6 844 000	6 280 000
Cobalt metal (a)	tonnes	3 020	2 150	2 600	3 187	4 200
Copper, refined	tonnes	395 800	373 600	389 000	393 600	401 600
Indium	tonnes	* 30	* 30	* 30	* 30	* 30
Pig iron	tonnes	6 977 000	3 087 000	4 688 000	4 700 000	4 073 000
Crude steel	tonnes	10 673 000	5 635 000	7 973 000	8 026 000	7 301 000
Kaolin	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Lead, refined	tonnes	104 000	109 000	121 000	119 000	119 000
Selenium metal	tonnes	* 200	* 200	* 200	* 200	* 200
Tin	tonnes	9 200	8 700	9 900	10 000	11 400
Zinc	tonnes	251 000	137 000	260 000	282 000	250 000

Note(s)

(1) Belgium is also believed to produce sulphur

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

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	15 097 819	13 354 957	12 427 043	13 083 592	12 886 680
Aluminium and bauxite						
Bauxite	tonnes	53 444	44 530	48 683	37 533	36 651
Alumina	tonnes	4 858	5 666	7 516	21 284	5 218
Unwrought	tonnes	160 684	121 708	257 888	150 542	95 405
Unwrought alloys	tonnes	32 273	22 665	14 204	30 285	61 019
Scrap	tonnes	179 137	219 846	274 819	321 484	311 716
Antimony						
Ores and concentrates	tonnes	228	530	433	274	1 187
Metal	tonnes	494	533	776	732	259
Oxide	tonnes	9 636	8 811	10 599	10 417	7 818
Arsenic						
Metallic arsenic	tonnes	77	42	114	120	191
Barytes	tonnes	1 381	2 638	3 216	213	1 713
Bentonite and fuller's earth						
Bentonite	tonnes	34 034	36 263	28 632	28 512	31 222
Bismuth						
Metal	tonnes	162	413	1	6	4
Bromine	kilograms	20 752 500	17 466 300	12 619 000	25 002 100	25 239 600
Cadmium						
Metal	tonnes	442	452	459	545	690
Oxide	tonnes	4 677	4 033	4 413	3 734	3 764
Cement						
Cement clinkers	tonnes	893 494	936 451	582 766	744 707	638 496
Portland cement	tonnes	1 960 360	1 722 252	1 676 150	1 729 402	1 631 167
Other cement	tonnes	556 870	417 798	410 909	353 126	253 759
Chromium						
Ores and concentrates	tonnes	48 086	15 562	18 415	13 945	34 801
Metal	tonnes	772	1 226	1 311	1 010	676

Belgium

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Coal						
Anthracite	tonnes	1 400 377	675 097	1 652 015	1 915 992	1 668 940
Other coal	tonnes	4 416 217	4 640 602	4 211 655	2 560 811	3 566 699
Lignite	tonnes	10 581	7 267	18 781	42 164	51 514
Briquettes	tonnes	11 331	11 452	18 899	40 374	41 363
Cobalt						
Ore	tonnes	1 112	1 227	633	2 431	362
Metal (a)	tonnes	* 7 000	* 4 700	* 4 400	* 2 400	* 2 300
Copper						
Ores and concentrates	tonnes	2 155	4 594	4 549	2 046	3 242
Matte and cement	tonnes	4 139	2 432	6 935	9 042	10 231
Unwrought, unrefined	tonnes	10 533	11 570	42 836	40 660	27 586
Unwrought, refined	tonnes	257 907	248 500	189 253	187 595	242 533
Unwrought alloys	tonnes	10 954	9 253	12 116	11 763	12 436
Scrap	tonnes	162 090	110 355	141 380	165 713	168 705
Diamond						
Gem, rough	Carats	99 500 000	85 500 000	113 000 000	90 500 000	89 000 000
Gem, cut	Carats	5 950 000	5 178 000	6 034 000	6 232 100	* 280 000
Industrial	Carats	500 000	1 670 000	3 320 000	3 170 746	* 5 900 000
Dust	Carats	£14 405 000	£11 148 000	£13 948 000	£12 800 000	£11 590 000
Diatomite	tonnes	2 612	1 907	3 004	3 122	2 690
Feldspar	tonnes	994	1 117	64	317	417
Fluorspar	tonnes	156 066	84 491	122 483	118 782	147 771
Gold						
Metal	kilograms	24 538	25 683	22 842	6 200	12 900
Waste and scrap	kilograms	134 500	29 100	173 700	67 800	58 600
Graphite	tonnes	3 815	2 634	993	1 316	1 716
Gypsum						
Crude	tonnes	89 626	113 954	92 533	101 382	72 899
Calcined	tonnes	3 817	1 823	177 046	(a)* 195 000	(a)* 184 000
Iodine	kilograms	3 560 100	2 582 300	3 989 500	3 584 800	3 391 900
Iron ore	tonnes	85 701	178 567	366 331	455 069	76 216
Iron, steel and ferro-alloys						
Pig iron	tonnes	283 034	160 120	254 854	255 067	232 381
Sponge and powder	tonnes	20 732	14 655	35 395	10 029	14 734
Ferro-chrome	tonnes	38 927	20 403	25 965	23 538	26 098
Ferro-silico-chrome	tonnes	12 463	15 645	5 849	1 549	666
Ferro-manganese	tonnes	24 024	9 915	26 544	41 161	43 319
Ferro-silico-manganese	tonnes	40 777	31 374	48 652	47 762	10 280
Ferro-molybdenum	tonnes	17 759	16 396	19 593	20 134	21 760
Ferro-silicon	tonnes	54 905	47 214	23 071	33 676	25 595
Other ferro-alloys	tonnes	12 686	2 988	4 137	16 124	8 045
Silicon metal	tonnes	6 673	5 954	8 522	8 396	2 327
Ingots, blooms, billets	tonnes	908 563	279 680	487 535	484 510	336 540
Scrap	tonnes	3 250 800	3 245 159	3 754 403	3 533 560	3 618 789
Kaolin	tonnes	1 030 076	783 512	523 697	232 664	219 024
Lead						
Ores and concentrates	tonnes	114 105	148 562	101 160	167 055	136 787
Unwrought	tonnes	95 878	108 442	145 571	130 655	127 052
Scrap	tonnes	18 336	21 962	21 479	18 945	18 051
Lithium						
Oxides	tonnes	1 281	781	2 284	1 890	2 320
Carbonate	tonnes	3 567	3 042	4 539	4 428	4 985
Magnesite and magnesia						
Magnesite	tonnes	1 911	876	1 235	914	150
Magnesia	tonnes	81 909	59 644	96 513	58 237	49 561
Manganese						
Ores and concentrates	tonnes	8 578	5 192	4 444	9 982	4 236
Metal	tonnes	1 947	714	1 185	1 625	1 447
Mercury	kilograms	110 800	1 400	11 500	600	8 700
Mica	tonnes	2 127	1 562	1 590	2 363	3 587
Molybdenum						
Ores and concentrates	tonnes	11 314	15 581	24 396	25 337	19 444
Metal	tonnes	243	105	371	128	204
Oxides	tonnes	379	91	83	366	688

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Nickel						
Mattes, sinters etc	tonnes	115	921	697	2 380	3 328
Ores and concentrates	tonnes	2 750	1 212	724	1 161	—
Unwrought	tonnes	13 298	11 883	9 271	9 684	11 517
Unwrought alloys	tonnes	2 152	2 479	1 357	1 838	3 838
Oxides	tonnes	1 196	834	221	910	498
Scrap	tonnes	2 872	6 883	3 443	7 430	2 407
Crude petroleum	tonnes	2 496 349	2 390 390	2 593 653	2 278 613	2 085 993
Natural gas	tonnes	59 248 950	7 659 165	11 792 847	23 022 897	* 27 000 000
Phosphate rock	tonnes	84 619	15 792	30 744	62 021	63 004
Platinum metals						
Platinum and platinum metals	kilograms	8 400	10 700	7 500	8 900	5 300
Waste and scrap	kilograms	649 800	315 200	497 000	218 400	31 200
Potash						
Chloride	tonnes	10 631	58 784	64 018	100 097	217 498
Rare earths						
Metals	tonnes	299	273	476	110	134
Rare earth compounds	tonnes	408	335	332	265	141
Salt	tonnes	61 012	125 255	288 679	354 644	151 767
Sillimanite minerals	tonnes	62 423	39 809	53 940	51 011	35 685
Silver						
Ores and concentrates	kilograms	33 100	6 200	12 300	2 149 800	1 409 800
Metal	kilograms	41 900	69 900	21 800	197 000	311 900
Sulphur and pyrites						
Sulphur	tonnes	75 305	74 232	21 533	34 087	10 274
Sulphur, sublimed and precipitated	tonnes	368	345	193	83	119
Talc	tonnes	139 619	112 983	128 526	125 040	109 253
Tantalum and niobium						
Tantalum	tonnes	26	2	4	2	2
Tin						
Concentrates	tonnes	161	42	127	95	107
Unwrought	tonnes	7 274	4 753	5 114	4 261	7 428
Unwrought alloys	tonnes	2 448	5 000	6 236	6 427	5 018
Scrap	tonnes	233	127	207	1 195	308
Titanium						
Titanium minerals	tonnes	100 134	58 654	106 478	116 859	119 931
Metal	tonnes	1 157	1 087	895	1 405	1 560
Oxides	tonnes	401 906	369 495	435 415	390 405	345 752
Titanium slag	tonnes	5 085	...	...	...	...
Tungsten						
Ores and concentrates	tonnes	62	120	27	406	544
Metal	tonnes	405	422	723	368	657
Carbide	tonnes	36	32	92	92	77
Vanadium						
Ores and concentrates	tonnes	327	131	...	...	...
Pentoxide	tonnes	8	47	80	...	65
Zinc						
Ores and concentrates	tonnes	733 794	785 125	749 582	725 335	859 086
Unwrought	tonnes	8 359	13 590	155 654	296 197	277 418
Unwrought alloys	tonnes	...	...	...	154 258	140 766
Scrap	tonnes	15 585	16 644	14 540	11 652	15 063
Zirconium						
Concentrates	tonnes	16 056	28 907	17 417	12 021	13 246
Metal	tonnes	157	125	187	272	186

Note(s)

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	25 172 064	22 175 332	22 484 726	23 911 051	22 934 219
Aluminium and bauxite						
Bauxite	tonnes	88 892	40 837	75 600	52 727	41 111
Alumina	tonnes	13 959	7 265	19 028	20 406	25 501
Alumina hydrate	tonnes	34 834	29 635	34 978	52 806	36 956
Unwrought	tonnes	319 471	322 792	517 946	412 600	400 947
Unwrought alloys	tonnes	236 550	126 490	193 103	218 350	159 147
Scrap	tonnes	196 947	204 621	228 517	257 366	249 187
Antimony						
Metal	tonnes	8 837	7 511	10 280	9 451	7 195
Oxide	tonnes	801	624	904	831	1 822
Arsenic						
Metallic arsenic	tonnes	65	17	114	634	284
Asbestos						
Unmanufactured	tonnes	6	166	0	0	...
Barytes	tonnes	5 959	4 490	5 637	4 294	12 095
Bentonite and fuller's earth						
Bentonite	tonnes	74 216	62 885	72 971	91 291	68 771
Bismuth						
Metal	tonnes	190	9	1	45	16
Bromine	kilograms	26 540 000	20 618 700	18 693 500	28 221 500	28 260 600
Cadmium						
Metal	tonnes	5 511	3 439	6 456	5 932	3 683
Oxide	tonnes	10	28	43	109	7
Cement						
Cement clinkers	tonnes	627 133	684 634	740 528	717 664	649 014
Portland cement	tonnes	954 591	819 923	1 030 282	1 113 638	1 310 336
Other cement	tonnes	292 741	252 247	172 609	158 441	163 298
Chromium						
Ores and concentrates	tonnes	56 183	19 050	25 350	22 896	39 090
Metal	tonnes	1 097	871	1 593	3 023	977
Coal						
Anthracite	tonnes	3 964 878	1 436 499	2 660 267	3 382 132	2 377 808
Other coal	tonnes	10 171 283	5 807 413	6 851 382	5 887 514	7 104 464
Lignite	tonnes	365 152	256 167	362 257	411 424	425 918
Briquettes	tonnes	20 943	31 346	27 379	53 793	40 447
Cobalt						
Ore	tonnes	185	272	156	379	349
Metal	tonnes	255	249	222	368	246
Copper						
Ores and concentrates	tonnes	12 039	17 378	10 554	13 735	1 278
Matte and cement	tonnes	4 482	36 352	29 857	41 741	40 104
Unwrought, unrefined	tonnes	206 660	212 932	191 159	206 987	181 032
Unwrought, refined	tonnes	54 380	79 524	61 447	34 734	71 465
Unwrought alloys	tonnes	1 749	2 669	4 917	5 134	2 971
Scrap	tonnes	249 718	215 202	272 816	255 661	303 702
Diamond						
Unsorted	Carats	526 381	495 270	462 450	418 531	* 410 000
Gem, rough	Carats	55 000 000	44 000 000	63 000 000	67 500 000	54 500 000
Gem, cut	Carats	4 500 000	500 000	3 000 000	3 000 000	500 000
Industrial	Carats	8 000 000	3 500 000	3 000 000	1 000 000	2 500 000
Dust	Carats	63 000 000	35 000 000	61 000 000	58 000 000	68 500 000
Diatomite	tonnes	8 353	6 414	11 813	10 815	7 143
Feldspar	tonnes	34 837	27 113	24 495	22 623	17 062
Fluorspar	tonnes	169 219	91 928	134 266	145 776	173 038
Gold						
Metal	kilograms	15 600	13 100	10 100	9 100	9 400
Waste and scrap (a)	kilograms	* 61 400	* 115 800	* 339 000	* 141 000	* 807 000
Graphite	tonnes	3 624	5 048	7 243	7 473	6 109
Gypsum						
Crude	tonnes	1 231 279	702 104	616 338	683 957	838 204
Calcined	tonnes	505 792	424 465	396 873	507 725	455 117
Iodine	kilograms	3 586 200	3 189 200	4 087 700	3 814 500	4 663 100
Iron ore						
Iron ore	tonnes	12 329 299	3 254 834	7 567 453	7 425 015	6 309 506
Burnt pyrites	tonnes	431	23 648	45	...	—

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	547 962	281 872	331 652	320 083	286 145
Sponge and powder	tonnes	22 005	19 389	39 503	54 212	42 889
Ferro-chrome	tonnes	378 017	185 381	263 715	248 006	275 926
Ferro-silico-chrome	tonnes	15 483	—	1 950	10 437	19 741
Ferro-silico-magnesium	tonnes	2 879	1 292	1 992	1 716	1 258
Ferro-manganese	tonnes	83 610	21 327	48 471	69 017	70 732
Ferro-silico-manganese	tonnes	63 577	36 931	72 195	77 001	28 938
Ferro-molybdenum	tonnes	2 339	2 215	2 160	3 261	3 437
Ferro-nickel	tonnes	89 430	46 248	48 017	64 242	40 217
Ferro-niobium	tonnes	1 530	1 089	1 890	1 598	1 687
Ferro-phosphorus	tonnes	10 421	3 124	2 612	1 459	1 227
Ferro-silicon	tonnes	118 585	62 888	92 785	105 445	87 805
Ferro-titanium and ferro-silico-titanium	tonnes	5 572	2 161	2 926	2 377	2 525
Ferro-tungsten and ferro-silico-tungsten	tonnes	158	159	229	93	249
Ferro-vanadium	tonnes	336	246	214	146	263
Other ferro-alloys	tonnes	6 626	3 363	7 039	8 777	7 451
Silicon metal	tonnes	20 015	18 995	23 566	21 688	10 440
Ingots, blooms, billets	tonnes	2 536 024	1 966 055	2 554 975	2 916 336	2 458 279
Scrap	tonnes	4 214 915	3 678 867	4 726 992	4 634 651	4 330 264
Kaolin	tonnes	1 465 754	905 784	1 001 057	890 863	868 298
Lead						
Ores and concentrates	tonnes	97 474	192 496	169 356	154 976	139 771
Unwrought	tonnes	30 413	18 121	14 467	27 696	77 349
Scrap	tonnes	25 873	34 085	31 992	33 219	26 023
Lithium						
Oxides	tonnes	1 851	1 179	2 410	2 953	2 515
Carbonate	tonnes	4 414	3 410	4 183	7 770	7 205
Magnesite and magnesite						
Magnesite	tonnes	2 357	1 412	3 820	2 076	643
Magnesia	tonnes	141 185	104 577	80 845	70 954	58 355
Manganese						
Ores and concentrates	tonnes	83 909	61 980	49 731	49 393	50 509
Metal	tonnes	4 423	3 076	4 377	5 466	4 636
Mercury	kilograms	133 100	15 700	57 200	12 500	505
Mica						
Unmanufactured	tonnes	2 155	3 454	2 636	2 395	4 331
Ground	tonnes	5 409	3 507	4 086	4 722	3 314
Waste	tonnes	2 067	45	8	120	1 212
Molybdenum						
Ores and concentrates	tonnes	37 964	37 101	46 899	42 498	39 523
Metal	tonnes	358	344	142	235	304
Oxides	tonnes	2 075	968	694	1 204	1 659
Nickel						
Mattes, sinters etc	tonnes	1 250	499	330	598	1 541
Unwrought	tonnes	29 492	12 037	15 052	19 170	19 032
Unwrought alloys	tonnes	723	1 915	469	574	3 035
Oxides	tonnes	618	565	700	1 033	576
Scrap	tonnes	566	288	918	1 553	1 907
Crude petroleum	tonnes	35 556 835	32 376 828	35 234 358	34 059 177	35 087 312
Natural gas	tonnes	11 419 294	14 431 349	14 144 704	13 250 074	12 979 827
Phosphate rock	tonnes	1 458 207	579 326	1 114 210	1 076 842	1 038 397
Platinum metals						
Platinum and platinum metals	kilograms	300	1 200	1 000	400	400
Potash						
Sulphate	tonnes	175 205	73 074	129 152	120 335	15 461
Chloride	tonnes	912 154	428 365	1 173 213	1 259 385	740 726
Other potassic fertilisers	tonnes	10 125	7 668	13 668	13 771	3 794
Rare earths						
Metals	tonnes	259	323	411	205	136
Cerium compounds	tonnes	258	419	323	289	146
Other rare earth compounds	tonnes	142	292	172	58	41
Ferro-cerium and other pyrophoric alloys	tonnes	3	62	2	0	7
Salt	tonnes	1 174 539	1 319 896	1 751 650	2 001 517	1 272 556
Sillimanite minerals						
Sillimanite minerals	tonnes	6 683	40 549	53 115	50 427	32 683
Mullite	tonnes	2 149	432	1 955	1 690	4 139

Belgium

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Silver						
Ores and concentrates	kilograms	253 700	1 567 600	6 000 300	7 619 600	25 085 300
Metal	kilograms	351 300	225 700	86 500	71 100	80 200
Sulphur and pyrites						
Sulphur	tonnes	611 170	460 990	592 348	562 688	568 833
Sulphur, sublimed and precipitated	tonnes	1 852	750	621	473	558
Talc	tonnes	194 823	149 757	183 625	175 662	163 309
Tin						
Concentrates	tonnes	318	16	200	488	253
Unwrought	tonnes	1 100	1 350	1 131	847	1 365
Unwrought alloys	tonnes	2 235	2 638	3 289	2 785	3 109
Scrap	tonnes	2 422	2 327	3 560	3 551	7 001
Titanium						
Titanium minerals	tonnes	204 688	110 028	181 688	213 276	205 930
Metal	tonnes	3 739	2 132	1 743	1 582	1 160
Oxides	tonnes	132 327	108 582	* 314 200	114 760	97 229
Tungsten						
Metal	tonnes	401	326	402	321	202
Vanadium						
Ores and concentrates	tonnes	200	123	...	...	...
Pentoxide	tonnes	38	94	123	95	364
Zinc						
Ores and concentrates	tonnes	(a)* 805 000	(a)* 444 500	1 129 207	1 182 797	1 194 208
Unwrought	tonnes	205 745	237 741	189 980	280 492	267 917
Unwrought alloys	tonnes	8 075	13 299	10 613	11 844	30 383
Scrap	tonnes	40 657	61 433	68 233	66 665	57 765
Zirconium						
Concentrates	tonnes	17 337	28 897	17 469	12 317	12 682
Metal	tonnes	433	213	370	480	309

Note(s)

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

Bulgaria

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	19 697 937	12 882 651	5 199 000	10 054 205	9 293 819
Crushed rock	tonnes	21 094 047	15 667 880	16 876 900	17 979 678	18 281 353
Barytes	tonnes	40 100	14 300	500	200	—
Bentonite and fuller's earth						
Bentonite	tonnes	178 700	108 400	99 700	53 900	77 900
Bismuth	tonnes (metal content)	* 45	* 45	* 45	* 45	* 45
Cadmium	tonnes	376	413	389	427	363
Cement						
Cement, clinker	tonnes	3 509 817	1 858 850	2 071 100	1 475 700	* 1 500 000
Cement, finished	tonnes	4 900 336	2 660 176	1 981 971	1 889 502	1 754 204
Coal						
Brown coal	tonnes	2 643 200	2 243 800	2 321 200	2 743 500	* 2 700 000
Lignite	tonnes	26 007 800	25 014 800	27 148 300	34 496 200	31 040 700
Copper, mine (a)	tonnes (metal content)	107 195	110 652	112 904	114 603	118 255
Copper, smelter	tonnes	257 100	256 200	265 000	285 000	264 200
Copper, refined	tonnes	126 700	196 900	216 000	226 100	226 000
Feldspar	tonnes	* 90 000	* 80 000	* 80 000	* 80 000	* 80 000
Fluorspar	tonnes	—	32	10	31 800	69 700
Gold	kilograms (metal content)	4 160	4 482	4 489	5 302	7 058
Gypsum	tonnes	21 200	127 600	109 200	114 800	113 700
Pig iron	tonnes	441 000	—	—	—	—
Crude steel	tonnes	1 330 000	726 000	744 000	835 000	633 000
Ferro-alloys						
Ferro-silicon	tonnes	6 000	* 3 000	—	—	—
Kaolin	tonnes	* 220 000	* 140 000	* 190 000	* 250 000	* 240 000
Lead, mine (a)	tonnes (metal content)	14 577	12 981	12 705	14 369	15 949
Lead, refined	tonnes	90 900	83 100	80 600	71 000	66 000
Manganese ore	tonnes	39 100	28 300	106 000	85 600	39 100
Perlite	tonnes	7 400	14 800	—	—	3 700
Crude petroleum	tonnes	23 000	23 800	22 400	21 400	22 900
Natural gas	million m ³	218	15	74	443	390
Salt	tonnes	2 100 000	1 300 000	1 900 000	2 200 000	2 100 000
Silver	kilograms (metal content)	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Zinc, mine (a)	tonnes	101 700	92 700	93 800	88 400	73 100
Slab zinc	tonnes (metal content)	12 819	9 339	9 904	10 977	12 116

Note(s)

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

(a) Metal content of ore

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	268 120	76 129	262 166	325 857	513 135
Aluminium and bauxite						
Unwrought alloys	tonnes	8 931	2 775	6 798	7 555	5 866
Scrap	tonnes	18 478	20 577	31 728	26 302	25 579
Barytes	tonnes	46 907	14 326	505	231	—
Bentonite and fuller's earth						
Bentonite	tonnes	103 106	79 359	72 183	67 118	63 090
Cadmium						
Metal	tonnes	374	569	474	421	394
Cement						
Cement clinkers	tonnes	120 588	14 836	5 246	8 131	296 372
Portland cement	tonnes	130 932	109 923	164 404	190 570	269 199
Other cement	tonnes	22 589	394	1 772	6 516	21 341

Bulgaria

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Chromium						
Metal	tonnes	...	...	...	603	304
Coal						
Hard coal (a)	tonnes	36 095	11 511	76 508	126 229	133 470
Lignite	tonnes	53	5 862	9 525	2 744	635
Copper						
Ores and concentrates	tonnes	105 889	134 910	86 171	131 874	204 416
Matte and cement	tonnes	3 559	4 749	5 048	5 827	4 565
Unwrought, unrefined	tonnes	146 271	73 379	7 926	10 844	70 347
Unwrought, refined	tonnes	105 747	153 025	206 309	353 450	202 885
Scrap	tonnes	10 547	10 717	18 226	12 982	12 318
Feldspar	tonnes	16 912	15 007	19 087	19 329	19 414
Gypsum						
Crude and calcined	tonnes	787	11 965	3 641	10 953	21 872
Iodine	kilograms	200	300	600	600	500
Iron ore	tonnes	...	12 705	1	—	26 823
Iron, steel and ferro-alloys						
Pig iron	tonnes	23 553	1 420	1 141	854	1 249
Ferro-silico-manganese	tonnes	288	...	19	1	136
Ferro-silicon	tonnes	2 076	2 890	980	248	1 563
Other ferro-alloys	tonnes	550	9 867	2 115	312	907
Ingots, blooms, billets	tonnes	85 466	54 115	30 327	24 822	14 564
Scrap	tonnes	740 414	510 997	949 000	850 898	730 749
Kaolin	tonnes	139 069	119 736	159 669	197 114	193 385
Lead						
Ores and concentrates	tonnes	9 555	4 188	4 611	9 331	2 120
Unwrought	tonnes	80 972	77 713	78 977	68 472	64 354
Magnesite and magnesia						
Magnesite	tonnes	429	—	—	537	241
Manganese						
Ores and concentrates	tonnes	17 369	29 715	163 257	91 110	76 140
Molybdenum						
Metal	tonnes	123	132	122	355	133
Nickel						
Scrap	tonnes	48	364	1 220	2	...
Platinum metals						
Waste and scrap (b)	kilograms	* 1 400	* 44 000	* 16 000	* 23 000	* 10 000
Salt	tonnes	8 239	2 689	1 078	6 074	170
Silver						
Ores and concentrates	kilograms	...	...	...	8 900	...
Metal	kilograms	36 516	58 565	37 300	35 200	49 000
Sulphur and pyrites						
Sulphur	tonnes	28 993	20 840	40 286	38 097	41 601
Titanium						
Metal	tonnes	835	2	—	849	64
Oxides	tonnes	94	677	584	987	408
Tungsten						
Metal	tonnes	20	2	80	11	12
Zinc						
Ores and concentrates	tonnes	7 982	2 076	22	1 607	—
Unwrought (c)	tonnes	96 678	87 008	81 332	71 894	57 768
Scrap	tonnes	1 293	2 226	1 949	2 021	2 185

Note(s)

(a) Including anthracite

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

(c) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	41 256	22 189	14 843	15 075	18 661
Aluminium and bauxite						
Alumina	tonnes	1 370	1 859	2 887	1 875	3 429
Unwrought	tonnes	42 738	39 759	44 468	43 192	43 405
Unwrought alloys	tonnes	18 557	16 050	27 444	35 685	42 685
Scrap	tonnes	4 028	3 014	6 897	4 625	1 582
Arsenic						
Metallic arsenic	tonnes	12	11	3	10	10
Barytes	tonnes	36	57	155	112	848
Bentonite and fuller's earth						
Bentonite	tonnes	3 386	2 422	2 548	2 591	2 074
Cement						
Cement clinkers	tonnes	248 737	45 002	16 167	17 478	14 586
Portland cement	tonnes	13 645	481 991	448 220	431 780	436 036
Other cement	tonnes	1 110	955	2 510	6 147	8 567
Chromium						
Ores and concentrates	tonnes	793	637	671	971	1 086
Coal						
Anthracite	tonnes	2 841 458	1 938 000	1 858 397	2 203 775	1 132 609
Other coal	tonnes	2 054 649	1 130 146	1 081 783	1 032 074	1 080 540
Briquettes	tonnes	66 676	10 238	46 754	19	47
Copper						
Ores and concentrates	tonnes	609 258	635 039	575 192	836 387	756 349
Matte and cement	tonnes	34 997	15 160	13 642	2 006	98
Unwrought	tonnes	30 422	8 016	8 272	12 441	6 982
Scrap	tonnes	23 856	20 730	35 464	52 461	64 563
Diamond						
Dust	Carats	7 623 860	4 940 300	7 251 395	7 571 255	* 7 641 000
Feldspar	tonnes	31 346	54 178	86 861	86 056	84 230
Fluorspar	tonnes	651	778	700	1 742	1 262
Gold						
Metal	kilograms	8 692	56	55	1 596	100
Graphite	tonnes	158	132	66	65	56
Gypsum						
Crude	tonnes	12 223	15 830	6 239	11 399	6 338
Calcined	tonnes	70 280	42 086	44 383	37 323	29 471
Iodine	kilograms	2 900	2 900	2 300	2 800	3 600
Iron ore						
Iron ore	tonnes	208 559	3 110	7 991	1 265	1 987
Burnt pyrites	tonnes	188 923	15 831	16 653	16 679	11 794
Iron, steel and ferro-alloys						
Pig iron	tonnes	27 941	6 736	14 781	17 521	13 807
Sponge and powder	tonnes	1 282	14 572	317	294	97
Ferro-chrome	tonnes	656	182	356	578	489
Ferro-silico-magnesium	tonnes	405	180	164	183	177
Ferro-manganese	tonnes	4 206	3 137	3 137	6 280	3 816
Ferro-silico-manganese	tonnes	4 325	3 479	4 291	6 324	6 966
Ferro-silicon	tonnes	3 331	1 152	2 520	3 246	4 203
Ferro-titanium and ferro-silico-titanium	tonnes	292	34	72	175	173
Ferro-vanadium	tonnes	97	87	91	134	125
Other ferro-alloys	tonnes	1 112	732	732	4 319	5 145
Ingots, blooms, billets	tonnes	567 381	306 020	258 743	411 534	300 224
Scrap	tonnes	237 055	202 276	269 483	230 401	113 497
Kaolin	tonnes	28 748	20 623	23 784	25 789	29 038
Lead						
Ores and concentrates	tonnes	119 522	63 185	81 307	74 810	72 008
Unwrought	tonnes	15 529	10 182	7 283	21 566	21 064
Scrap	tonnes	5 830	12 145	17 462	4 627	1 660
Magnesite and magnesia	tonnes	6 296	3 180	5 678	11 378	6 204
Molybdenum						
Metal	tonnes	15	47	10	193	9
Nickel						
Unwrought (a)	tonnes	204	90	125	201	172
Crude petroleum	tonnes	7 262 658	5 770 397	5 355 541	4 999 511	5 901 767
Phosphate rock	tonnes	534 734	309 564	455 539	570 288	535 571

Bulgaria

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Platinum metals						
Platinum and platinum metals	kilograms	613	16	17	5	10
Potash						
Potassic fertilisers	tonnes	4 633	1 970	7 985	3 210	9 948
Salt	tonnes	103 007	102 272	215 355	214 732	252 392
Silver						
Metal	kilograms	2 189	871	2 408	4 300	12 800
Talc	tonnes	1 048	747	512	985	956
Tin						
Unwrought (a)	tonnes	69	22	47	359	215
Titanium						
Titanium minerals	tonnes	42	105	506	486	735
Metal	tonnes	203	65	19	46	127
Oxides	tonnes	5 955	5 329	5 675	6 454	4 593
Tungsten						
Metal	tonnes	9	26	86	16	30
Zinc						
Ores and concentrates	tonnes	146 655	147 579	167 107	166 553	132 500
Unwrought (a)	tonnes	5 095	2 480	1 761	2 765	6 878
Zirconium						
Concentrates	tonnes	1 081	573	781	609	95

Note(s)

(a) Including alloys

Croatia

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	7 275 077	6 583 880	3 646 572	5 012 106	3 760 275
Bentonite and fuller's earth						
Bentonite	tonnes	19 759	—	—	—	—
Gypsum	tonnes	* 250 000	318 139	248 675	231 008	182 557
Crude steel	tonnes	121 759	54 266	103 429	162 709	1 016
Crude petroleum	tonnes	867 027	807 424	748 791	664 440	597 246
Natural gas	million m ³	2 729	2 591	2 727	2 471	2 013
Salt	tonnes	54 937	57 186	66 835	53 963	45 992

Note(s)

(1) Croatia is also believed to produce sulphur

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	2 950 159	3 087 216	1 858 348	992 712	586 991
Aluminium and bauxite						
Unwrought	tonnes	194	124	2 338	2 674	2 161
Unwrought alloys	tonnes	194	124	1 017	2 055	2 114
Scrap	tonnes	17 769	15 779	22 346	23 009	23 867
Cement						
Cement clinkers	tonnes	235 377	169 394	176 403	103 281	284 480
Portland cement	tonnes	667 503	615 827	639 236	1 189 738	897 747
Other cement	tonnes	468 597	276 981	601 470	180 836	102 405
Copper						
Scrap	tonnes	10 884	10 202	13 329	12 597	14 016
Gold						
Metal	kilograms	88	140	256	1 408	6 046
Gypsum						
Crude and calcined	tonnes	4 738	3 119	10	66	23
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	3 286	3 397	6 526	5 254	2 368
Ingots, blooms, billets	tonnes	3 486	7	2 495	30 004	4 041
Scrap	tonnes	357 487	302 085	357 015	517 438	516 600
Lead						
Scrap	tonnes	1 872	1 025	1 697	1 842	1 906
Natural gas	tonnes	457 192	570 296	347 567	180 323	174 291
Platinum metals						
Waste and scrap	kilograms	27 018	27 959	53 996	24 958	36 441
Salt	tonnes	4 530	9 995	20 721	24 561	21 548
Silver						
Metal	kilograms	163	313	93	839	2 558
Sulphur and pyrites						
Sulphur	tonnes	7 604	8 664	6 565	14 256	15 801
Titanium						
Oxides	tonnes	417	331	117	172	42
Zinc						
Scrap	tonnes	700	708	518	676	764

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	4 618 579	1 871 236	926 574	1 366 197	1 689 891
Aluminium and bauxite						
Bauxite	tonnes	107 237	72 103	85 634	66 169	67 410
Unwrought	tonnes	57 828	37 828	50 354	45 493	54 040
Unwrought alloys	tonnes	20 786	28 251	29 270	40 783	31 807
Barytes	tonnes	1 525	889	710	125	2 225
Bentonite and fuller's earth						
Bentonite	tonnes	39 289	22 383	7 852	16 906	5 394
Cement						
Cement clinkers	tonnes	50	1	967	144	44
Portland cement	tonnes	393 886	393 613	344 352	326 526	315 804
Other cement	tonnes	7 447	10 620	7 619	4 200	1 001
Chromium						
Ores and concentrates	tonnes	568	282	143	190	73
Metal	tonnes	394	307	419	345	404
Coal						
Hard coal (a)	tonnes	1 189 379	712 873	1 112 822	1 092 794	875 116
Lignite	tonnes	58 417	47 504	85 413	85 316	44 423
Briquettes	tonnes	2 796	1 730	1 823	2 302	2 175
Copper						
Unwrought	tonnes	880	760	944	1 627	744
Diatomite	tonnes	511	462	402	555	616
Feldspar	tonnes	15 983	14 603	14 763	14 001	11 676
Fluorspar	tonnes	289	165	146	3 527	15 513
Gold						
Metal	kilograms	693	1 221	310	11	11
Gypsum						
Crude	tonnes	38 120	14 470	1 608	11 421	13 269
Calcined	tonnes	34 224	22 154	14 076	12 709	11 790
Iron ore (b)	tonnes	17 177	12 057	20 147	2 123	2 764
Iron, steel and ferro-alloys						
Pig iron	tonnes	15 031	8 420	10 343	14 072	12 353
Ferro-alloys	tonnes	4 790	2 239	4 051	2 490	1 223
Ingots, blooms, billets	tonnes	20 077	19 396	6 514	1 943	14 199
Scrap	tonnes	19 400	10 628	30 395	44 335	4 875
Kaolin	tonnes	24 009	14 486	10 238	11 278	8 655
Magnesite and magnesite	tonnes	1 682	1 289	1 208	1 061	710
Crude petroleum	tonnes	3 476 266	4 044 874	3 517 452	2 838 313	2 324 685
Natural gas	tonnes	855 326	738 109	587 846	579 005	971 008
Phosphate rock	tonnes	328 599	117 441	51 010	67 007	56 303
Potash						
Chloride	tonnes	157 994	10 538	132 471	102 879	115 375
Other potassic fertilisers	tonnes	2 958	1 091	1 749	3 717	1 314
Salt	tonnes	176 408	197 644	287 609	190 963	201 542
Silver						
Metal	kilograms	3 293	2 353	3 212	3 868	3 309
Sulphur and pyrites						
Sulphur	tonnes	98 785	10 349	2 877	2 752	1 503
Sulphur, sublimed and precipitated	tonnes	4	51	105	156	142
Talc	tonnes	1 709	1 721	1 813	1 578	1 774
Titanium						
Oxides	tonnes	2 989	2 697	3 000	2 911	206
Zinc						
Unwrought (c)	tonnes	4 656	3 149	3 029	2 886	2 847

Note(s)

(a) Including anthracite

(b) Including burnt pyrites

(c) Including alloys

Cyprus

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Crushed rock	tonnes	14 174 480	11 467 987	12 981 444	11 816 397	7 308 056
Bentonite and fuller's earth						
Bentonite	tonnes	155 125	152 722	162 969	160 625	160 180
Cement						
Cement, clinker	tonnes	—	30 286	—	—	—
Cement, finished	tonnes	1 913 620	1 480 843	1 328 763	1 206 786	1 080 019
Copper, mine	tonnes (metal content)	2 986	2 380	2 595	3 660	4 328
Copper, refined	tonnes	2 986	2 380	2 595	3 660	4 328
Gypsum	tonnes	412 000	317 000	333 000	335 000	327 800

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	124 576	38 469	—	2	78
Aluminium and bauxite						
Scrap	tonnes	4 409	5 934	6 896	6 310	7 688
Bentonite and fuller's earth						
Bentonite	tonnes	92 089	95 674	98 803	114 923	130 413
Cement						
Cement clinkers	tonnes	0	24 215	—	—	6 535
Portland cement	tonnes	—	27 324	12 866	42 438	248 521
Copper						
Unwrought	tonnes	2 986	2 449	2 550	3 660	4 328
Scrap	tonnes	2 381	3 400	4 619	4 086	5 435
Gold						
Metal	kilograms	600	700	300	600	1 200
Gypsum						
Crude and calcined	tonnes	279 902	236 427	250 034	248 284	249 250
Iron, steel and ferro-alloys						
Scrap	tonnes	72 106	80 349	96 654	138 529	136 351
Phosphate rock	tonnes	2 960	...	—	...	—
Salt	tonnes	956	2 910	7 929	6 260	5 765
Silver						
Metal	kilograms	...	100	400	1 900	2 500

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	28 990	11 564	2 648	1 517	16 792
Aluminium and bauxite						
Unwrought (a)	tonnes	13 413	8 761	9 225	7 104	6 458
Bentonite and fuller's earth						
Bentonite	tonnes	12 496	5 709	4 629	142	280
Cement						
Cement clinkers	tonnes	66 787	15 455	29 579	69 780	6 498
Portland cement	tonnes	29 311	249	2 512	545	416
Coal						
Hard coal (b)	tonnes	46 258	28 911	7 714	129	164
Diamond						
Gem, cut	Carats	£1 564 000	£1 724 000	£955 000	£976 000	£921 000
Industrial	Carats	£1 311 000	£587 000	£1 007 000	£944 000	£1 474 000
Gypsum						
Crude and calcined	tonnes	15 045	10 807	9 292	6 461	5 165

Cyprus

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Platinum metals						
Platinum and platinum metals (c)	kilograms	* 400	...	* 900	* 400	* 11
Rare earths						
Cerium compounds	tonnes	0	0	24	0	16
Ferro-cerium and other pyrophoric alloys	tonnes	0	...	18	...	—
Salt	tonnes	13 445	16 822	23 836	20 998	20 470
Silver						
Metal	kilograms	2 863	1 993	1 200	2 200	500
Sulphur and pyrites						
Sulphur	tonnes	895	1 011	951	625	604
Talc	tonnes	521	290	307	267	133
Titanium						
Oxides	tonnes	1 603	1 189	1 299	1 141	783

Note(s)

(a) Including alloys

(b) Including anthracite

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

Czech Republic

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	27 306 000	23 974 000	19 240 000	21 424 000	18 785 000
Crushed rock	tonnes	44 277 000	41 307 000	37 270 000	36 717 000	32 535 000
Bentonite and fuller's earth						
Bentonite	tonnes	235 000	177 000	183 000	160 000	221 000
Cement						
Cement, clinker	tonnes	3 137 828	2 433 746	2 260 561	2 617 072	2 371 207
Cement, finished	tonnes	4 804 845	3 851 100	3 558 536	4 052 558	3 620 330
Coal						
Bituminous	tonnes	12 197 000	10 621 000	11 193 000	10 967 000	10 796 000
Brown coal	tonnes	47 456 000	45 354 000	43 931 000	46 848 000	43 710 000
Lignite	tonnes	416 000	262 000	—	—	—
Diatomite	tonnes	31 000	—	32 000	46 000	43 000
Feldspar	tonnes	488 000	431 000	388 000	407 000	445 000
Graphite	tonnes	3 000	—	—	—	—
Gypsum	tonnes	35 000	13 000	5 000	11 000	14 000
Pig iron	tonnes	4 737 000	3 483 000	3 987 000	4 137 000	3 935 207
Crude steel	tonnes	6 387 000	4 594 000	5 180 000	5 583 000	5 072 082
Ferro-alloys						
Ferro-vanadium	tonnes	* 2 800	* 1 900	* 3 400	* 4 600	* 5 700
Kaolin (a)	tonnes	664 000	488 000	636 000	660 000	624 000
Lead, refined	tonnes	36 000	29 000	30 000	34 000	30 000
Crude petroleum	tonnes	236 000	217 000	173 000	163 000	150 000
Natural gas	million m ³	168	180	201	187	204
Uranium, mine	tonnes (metal content)	290	286	259	252	222

Note(s)

(1) Czech Republic is also believed to produce sulphur

(a) Beneficiated

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	699 987	597 101	683 786	1 010 339	645 164
Aluminium and bauxite						
Alumina	tonnes	197	3 069	3 861	3 659	4 065
Unwrought (a)	tonnes	53 682	59 913	51 307	53 600	61 017
Scrap	tonnes	59 196	49 251	71 467	89 690	85 939
Antimony						
Oxide	tonnes	133	89	71	107	96
Bentonite and fuller's earth						
Bentonite	tonnes	105 403	99 584	120 859	143 788	151 474
Bismuth						
Metal	tonnes	3	—	19	3	4
Cement						
Cement clinkers	tonnes	19 039	85 427	88 236	169	10 362
Portland cement	tonnes	436 600	374 515	402 537	844 920	665 669
Other cement	tonnes	196 133	156 650	218 689	232	124
Chromium						
Ores and concentrates	tonnes	507	369	764	1 140	1 061
Metal	tonnes	594	662	21	103	31
Coal						
Anthracite	tonnes	6 393	2 783	1 126	3 463	3 583
Other coal	tonnes	5 987 431	6 025 794	6 443 306	6 253 274	5 368 575
Lignite	tonnes	1 561 097	1 207 715	1 019 645	1 071 038	12 779 156
Briquettes	tonnes	75 459	93 479	90 864	103 816	54 148

Czech Republic

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Copper						
Unwrought	tonnes	3 597	10 653	11 041	10 703	20 225
Unwrought alloys	tonnes	4 278	3 992	3 515	2 884	1 238
Scrap	tonnes	63 825	105 230	123 688	85 202	74 592
Diamond						
Gem, cut	Carats	£3 947 000	£3 046 000	£4 465 000	£7 709 000	£6 721 000
Diatomite	tonnes	4 128	3 789	4 231	5 182	6 751
Feldspar	tonnes	171 596	135 533	129 715	166 859	171 207
Fluorspar	tonnes	4 488	6 147	10 575	10 564	9 634
Gold						
Metal	kilograms	4 000	9 800	12 000	21 400	5 300
Waste and scrap	kilograms	5 200	5 600	4 400	2 700	11 700
Graphite	tonnes	4 076	2 150	3 154	3 417	3 108
Gypsum						
Crude	tonnes	60 018	10 195	48 605	103 363	63 751
Calcined	tonnes	7 881	6 430	5 235	3 448	3 537
Iodine	kilograms	300	500	1 000	2 000	4 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	30 457	24 041	65 473	45 677	82 769
Ferro-silicon	tonnes	8 780	4 285	9 806	7 354	7 571
Ferro-vanadium	tonnes	2 830	1 868	3 440	4 603	5 737
Other ferro-alloys	tonnes	13 897	12 274	23 873	6 732	9 311
Silicon metal	tonnes	1 375	783	847	584	74
Ingots, blooms, billets	tonnes	500 423	222 780	320 821	356 146	292 066
Scrap	tonnes	1 792 889	1 442 865	1 814 398	2 011 915	2 042 131
Kaolin	tonnes	233 819	174 814	485 203	537 962	507 689
Lead						
Unwrought	tonnes	18 713	23 617	32 743	27 649	23 614
Scrap	tonnes	8 136	4 832	1 914	2 357	1 157
Magnesite and magnesite	tonnes	4 540	3 728	3 809	7 096	5 997
Manganese						
Ores and concentrates	tonnes	101	—	—	50	383
Mercury	kilograms	6 300	6 400	1 100	1 700	193
Mica	tonnes	49	59	96	163	212
Nickel						
Unwrought (a)	tonnes	758	228	126	272	725
Oxides	tonnes	643	275	341	338	380
Scrap	tonnes	601	2 420	4 558	3 427	6 851
Crude petroleum	tonnes	18 130	21 600	18 239	18 685	21 470
Natural gas	tonnes	—	834 462	1 318 872	1 115 748	1 034 568
Phosphate rock	tonnes	1 091	817	—	...	—
Platinum metals						
Platinum and platinum metals	kilograms	3 400	5 200	6 800	2 900	2 800
Waste and scrap	kilograms	700	—	—	15 300	—
Potash						
Potassic fertilisers	tonnes	3 322	6 843	4 235	4 780	3 839
Rare earths						
Rare earth compounds	tonnes	8	3	6	2	—
Salt	tonnes	14 116	31 068	51 289	41 658	25 883
Silver						
Metal	kilograms	117 325	77 000	74 600	399 700	187 000
Sulphur and pyrites						
Sulphur	tonnes	16 670	20 153	12 124	980	1 852
Talc	tonnes	386	182	169	298	214
Tantalum and niobium						
Tantalum	tonnes	97	62	95	110	86
Tin						
Unwrought (a)	tonnes	86	76	276	18	7
Scrap	tonnes	85	118	44	167	191
Titanium						
Titanium minerals	tonnes	641	452	2 378	504	684
Metal	tonnes	84	339	358	264	384
Oxides	tonnes	42 860	46 753	45 842	45 437	43 174
Tungsten						
Metal	tonnes	86	30	211	611	1 011
Carbide	tonnes	592	307	803	903	863

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Zinc						
Unwrought (a)	tonnes	17 258	19 982	5 148	5 147	7 407
Scrap	tonnes	2 705	2 716	4 798	4 189	4 432

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	333 726	398 613	353 419	357 455	352 553
Aluminium and bauxite						
Bauxite	tonnes	17 698	9 857	33 794	32 556	27 514
Alumina	tonnes	28 245	5 995	7 407	7 980	7 682
Alumina hydrate	tonnes	6 916	6 672	9 547	10 052	8 851
Unwrought	tonnes	68 362	62 972	76 945	84 560	77 128
Unwrought alloys	tonnes	124 643	108 231	135 648	153 819	141 484
Scrap	tonnes	58 424	50 379	61 802	86 969	103 385
Antimony						
Metal	tonnes	131	55	75	64	31
Oxide	tonnes	521	209	379	356	411
Arsenic						
Metallic arsenic	tonnes	25	0	0	0	0
Barytes	tonnes	7 388	4 641	7 004	7 431	7 008
Bentonite and fuller's earth						
Bentonite	tonnes	24 239	25 129	18 472	39 439	43 334
Bismuth						
Metal	tonnes	78	53	106	264	110
Bromine	kilograms	12 000	2 600	3 100	—	100
Cadmium						
Oxide	tonnes	463	396	464	487	439
Cement						
Cement clinkers	tonnes	134 179	101 031	121 682	44 577	86 089
Portland cement	tonnes	932 685	890 776	702 257	765 382	638 364
Other cement	tonnes	23 816	51 482	48 336	31 074	26 875
Chromium						
Ores and concentrates	tonnes	12 990	7 798	7 975	7 986	8 413
Metal	tonnes	282	83	514	139	147
Coal						
Anthracite	tonnes	39 211	24 054	24 471	95 762	121 247
Other coal	tonnes	2 181 691	1 761 947	2 016 443	2 286 190	1 833 669
Lignite	tonnes	33 579	36 617	49 426	91 889	350 322
Briquettes	tonnes	18 654	60 962	137 933	157 513	156 682
Cobalt						
Metal	tonnes	199	220	60	60	73
Copper						
Unwrought	tonnes	11 474	21 475	6 846	6 252	16 354
Unwrought alloys	tonnes	3 862	3 050	3 674	3 388	1 867
Scrap	tonnes	8 677	9 639	11 804	18 859	18 874
Diamond						
Gem, cut	Carats	116 669	7 306	5 567	6 796	* 10 000
Dust	Carats	£1 369 000	£977 000	£1 704 000	£1 954 000	£2 057 000
Diatomite	tonnes	4 768	3 173	2 753	3 263	3 829
Feldspar	tonnes	11 414	5 330	6 298	6 527	4 735
Fluorspar	tonnes	3 440	8 626	14 495	15 547	15 388
Gold						
Metal	kilograms	3 047	3 055	2 600	23 800	3 600
Waste and scrap	kilograms	19 140	60 440	84 000	192 500	245 400
Graphite	tonnes	6 233	2 554	3 605	5 149	4 757
Gypsum						
Crude	tonnes	76 119	83 819	55 087	57 962	48 657
Calcined	tonnes	75 278	53 954	33 763	34 353	33 209
Iodine	kilograms	25 200	31 900	35 100	36 500	22 600

Czech Republic

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron ore (a)	tonnes	6 799 756	4 803 009	5 902 011	7 363 983	5 870 744
Iron, steel and ferro-alloys						
Pig iron	tonnes	111 872	47 666	54 625	76 416	67 036
Sponge and powder	tonnes	24 791	10 006	15 391	24 059	18 754
Ferro-chrome	tonnes	26 043	14 715	16 962	10 933	9 658
Ferro-silico-magnesium	tonnes	1 402	564	820	1 061	699
Ferro-manganese	tonnes	33 704	23 630	26 204	25 281	24 826
Ferro-silico-manganese	tonnes	48 962	34 418	40 732	41 411	39 572
Ferro-molybdenum	tonnes	2 049	949	1 868	2 401	3 415
Ferro-nickel	tonnes	3	2	96	136	47
Ferro-niobium	tonnes	394	183	275	310	360
Ferro-phosphorus	tonnes	716	410	645	650	451
Ferro-silicon	tonnes	37 230	23 936	31 908	33 418	29 475
Ferro-titanium and ferro-silico-titanium	tonnes	482	160	239	317	212
Ferro-vanadium	tonnes	578	299	482	472	526
Other ferro-alloys	tonnes	4 425	2 709	3 012	2 749	2 358
Silicon metal	tonnes	5 826	4 408	5 805	5 809	4 910
Ingots, blooms, billets	tonnes	525 598	220 524	651 182	322 206	352 697
Scrap	tonnes	502 256	377 942	410 647	472 576	475 327
Kaolin	tonnes	20 662	13 228	14 125	18 733	17 045
Lead						
Unwrought	tonnes	59 318	65 896	81 762	36 233	60 258
Scrap	tonnes	4 672	4 150	2 901	2 763	2 560
Magnesite and magnesite						
Magnesite	tonnes	4 193	3 460	7 108	4 578	5 270
Magnesia	tonnes	54 246	38 048	38 862	40 975	43 235
Manganese						
Ores and concentrates	tonnes	15 715	16 063	25 758	28 810	335
Metal	tonnes	2 542	2 219	984	907	521
Mercury	kilograms	3 700	4 400	2 400	4 400	2 600
Mica	tonnes	1 958	981	2 513	740	915
Molybdenum						
Ores and concentrates	tonnes	284	1 040	184	118	79
Metal	tonnes	560	127	82	104	57
Nickel						
Unwrought (b)	tonnes	3 728	2 179	2 223	3 750	2 799
Oxides	tonnes	838	319	393	399	307
Scrap	tonnes	473	1 468	1 257	178	1 311
Crude petroleum	tonnes	8 141 759	7 451 765	7 770 418	6 968 871	7 024 223
Natural gas	tonnes	6 264 909	7 080 247	7 471 522	7 175 884	5 652 749
Phosphate rock	tonnes	20 928	543	9 917	13 163	21
Platinum metals						
Platinum	kilograms	42 358	81 500	25 000	2 100	13 100
Platinum metals	kilograms	47 932	600	17 700	100	100
Waste and scrap	kilograms	4 414	772	7 835	54 300	169 600
Potash						
Chloride	tonnes	28 052	36 125	82 710	87 248	75 651
Other potassic fertilisers	tonnes	5 025	2 430	4 773	3 410	3 377
Rare earths						
Metals	tonnes	0	0	13	35	2
Rare earth compounds	tonnes	155	124	131	117	344
Ferro-cerium and other pyrophoric alloys	tonnes	5	5	6	2	1
Salt	tonnes	610 149	711 374	958 474	858 980	560 186
Sillimanite minerals	tonnes	5 829	4 227	3 682	4 089	4 132
Silver						
Ores and concentrates	kilograms	...	5 700	990 200	—	—
Metal	kilograms	1 557 076	163 316	136 000	1 635 700	993 700
Sulphur and pyrites						
Pyrites	tonnes	1 576	299	250	247	384
Sulphur	tonnes	43 473	20 986	14 762	14 945	70 008
Sulphur, sublimed and precipitated	tonnes	65 242	71 033	82 355	93 289	39 459
Talc	tonnes	11 007	9 312	9 570	12 686	8 827
Tantalum and niobium						
Tantalum	tonnes	253	141	265	222	175
Tin						
Unwrought (b)	tonnes	802	937	449	651	631

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Titanium						
Titanium minerals	tonnes	193 858	140 394	155 485	146 778	98 071
Metal	tonnes	1 122	918	779	1 333	1 717
Oxides	tonnes	8 765	7 248	8 857	9 372	7 763
Tungsten						
Ores and concentrates	tonnes	...	...	...	314	799
Metal	tonnes	206	4 184	677	367	968
Carbide	tonnes	...	...	150	219	88
Vanadium						
Pentoxide	tonnes	5 135	2 702	5 255	7 004	8 672
Zinc						
Unwrought	tonnes	36 733	24 660	15 121	17 137	19 064
Unwrought alloys	tonnes	11 344	7 155	11 653	10 590	11 947
Scrap	tonnes	2 792	2 434	900	909	583
Zirconium						
Concentrates	tonnes	751	268	303	955	595
Metal	tonnes	101	45	37	34	24

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Denmark

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	53 318 000	36 240 000	33 978 000	42 878 000	39 332 000
Crushed rock	tonnes	320 000	260 000	240 000	337 000	293 000
Bentonite and fuller's earth						
Bentonite	tonnes	22 458	24 040	23 832	38 300	30 330
Cement						
Cement, clinker	tonnes	16 092	122	3 819	25	24 256
Cement, finished	tonnes	2 538 822	1 578 614	1 566 624	1 852 804	1 817 334
Diatomite						
Moler (a)	tonnes	158 000	126 000	124 000	126 000	111 000
Crude petroleum	tonnes	14 338 000	13 045 000	12 090 000	10 908 900	10 086 000
Natural gas	million m ³	9 562	7 980	7 792	6 263	5 617
Salt	tonnes	496 593	511 063	601 046	* 600 000	* 600 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	3 467	4 200	3 246	3 045	3 925

Note(s)

(1) Denmark is also believed to produce kaolin

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

(b) From petroleum refining and/or natural gas

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	846 490	955 036	907 149	961 853	1 224 741
Aluminium and bauxite						
Bauxite	tonnes	69	1 568	3 279	6 769	9 432
Alumina	tonnes	5 300	4 002	4 661	4 958	5 879
Unwrought alloys	tonnes	32 499	7 505	9 515	7 382	7 440
Scrap	tonnes	56 727	70 649	73 402	67 000	73 392
Bentonite and fuller's earth						
Bentonite	tonnes	15 734	13 004	13 787	13 827	17 711
Cement						
Cement clinkers	tonnes	7 287	7 784	11 884	2 689	24 658
Portland cement	tonnes	969 666	568 656	731 730	813 938	767 554
Other cement	tonnes	25 482	20 751	3 860	4 175	4 565
Chromium						
Metal	tonnes	1 262	659	1 056	601	548
Coal						
Hard coal	tonnes	27 070	(a) 1 973 198	(b)* 10 000	464 851	(a) 10 585
Copper						
Scrap	tonnes	33 421	31 711	30 006	33 289	27 276
Diamond						
Unsorted	Carats	95 000	15 000	...	2 875 000	60 000
Gem, cut	Carats	3 000 000	685 000	520 000	545 000	360 000
Industrial	Carats	1 025 000	40 000	90 000	125 000	55 000
Dust	Carats	5 000	5 400 000	7 625 000	24 850 000	18 500 000
Diatomite (b)	tonnes	* 67 800	* 57 500	* 57 300	* 56 800	* 42 700
Gold						
Waste and scrap	kilograms	600	500	500	1 800	3 000
Gypsum						
Crude	tonnes	141 124	8 440	2 211	63	5 155
Calcined	tonnes	4 173	1 455	8 299	6 725	13 990
Iodine	kilograms	1	1 500	3	100	—

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	89	53	239	1 102	1 681
Ferro-silicon	tonnes	48	55	77	164	1 043
Other ferro-alloys	tonnes	491	291	54	43	48
Ingots, blooms, billets	tonnes	16 775	13 287	19 143	21 926	21 050
Scrap	tonnes	1 372 424	1 335 754	1 596 485	1 554 808	1 359 467
Kaolin	tonnes	486	352	607	1 370	1 489
Lead						
Scrap	tonnes	1 159	4 057	3 485	4 118	4 167
Magnesite and magnesia						
Magnesite	tonnes	390	425	244	147	1
Magnesia	tonnes	71	93	522	497	179
Nickel						
Scrap	tonnes	642	1 063	1 765	1 244	590
Crude petroleum	tonnes	8 593 198	8 520 980	7 363 518	6 899 354	5 896 071
Natural gas	tonnes	4 023 305	2 906 339	(b)* 1 044 000	(b)* 836 000	(b)* 729 000
Platinum metals						
Platinum and platinum metals	kilograms	1	7 000	200	100	200
Potash						
Chloride	tonnes	45	59	69	2 123	2 579
Other potassic fertilisers	tonnes	374	504	683	8 898	7 664
Salt	tonnes	265 036	333 383	319 317	296 459	391 879
Silver						
Ores and concentrates	kilograms	200	...	...	422 100	1 533 800
Metal	kilograms	18 782	37 200	30 300	53 800	30 100
Sulphur and pyrites						
Sulphur	tonnes	4	6	12	39	4 814
Talc	tonnes	165	269	409	235	235
Titanium						
Metal	tonnes	152	102	196	125	194
Oxides	tonnes	460	442	820	5 792	10 732
Tungsten						
Metal	tonnes	121	91	113	118	32
Zinc						
Scrap	tonnes	2 028	2 622	2 563	2 468	2 617

Note(s)

(a) Including anthracite

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	3 346 209	2 932 586	2 777 604	3 531 658	3 934 656
Aluminium and bauxite						
Bauxite	tonnes	7 317	8 108	8 364	9 112	7 515
Alumina	tonnes	27 582	21 968	22 484	21 012	25 210
Unwrought (a)	tonnes	85 420	61 259	79 479	86 057	77 796
Scrap	tonnes	70 726	5 321	5 175	5 891	5 267
Barytes	tonnes	22 324	27 656	14 178	17 322	8 615
Bentonite and fuller's earth						
Bentonite	tonnes	34 012	35 089	43 049	34 130	41 931
Cement						
Cement clinkers	tonnes	33 825	31 847	23 732	29 888	24 464
Portland cement	tonnes	289 307	208 467	180 249	244 007	211 379
Other cement	tonnes	38 687	46 117	38 797	19 941	19 569
Chromium						
Ores and concentrates	tonnes	974	384	480	864	880
Coal						
Anthracite	tonnes	45 282	12 593	(b)* 21 000	(b)* 6 000	(b)* 6 000
Other coal	tonnes	7 412 557	6 423 923	3 670 544	(b)* 7 104 000	(b)* 3 799 000
Briquettes	tonnes	1 000	455	7 554	14 768	4 106

Denmark

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Cobalt						
Oxides	tonnes	8	15	19	42	16
Copper						
Unwrought	tonnes	2 818	1 413	1 978	2 255	1 692
Scrap	tonnes	11 235	10 388	9 125	9 075	7 547
Diamond						
Unsorted	Carats	£1 168 000	£40 000	£255 000	£82 000	£17 000
Gem, cut	Carats	£7 424 000	£4 680 000	£5 339 000	£5 884 000	£8 897 000
Industrial	Carats	£104 000	£223 000	£59 000	£88 000	£137 000
Dust	Carats	1 905 000	10 680 000	2 075 000	1 940 000	1 210 000
Diatomite	tonnes	5 849	3 347	3 294	4 165	3 056
Feldspar	tonnes	2 678	2 666	1 211	2 612	45
Fluorspar	tonnes	17 003	33 149	13 086	22 462	16 043
Gold						
Metal	kilograms	2 000	3 100	900	100 900	1 100
Graphite	tonnes	185	269	303	405	424
Gypsum						
Crude	tonnes	379 094	106 304	53 577	97 219	133 652
Calcined	tonnes	52 087	58 675	42 290	21 696	79 529
Iodine	kilograms	1 122 329	8 674	10 168	5 895	8 447
Iron ore						
Iron ore	tonnes	111 604	69 990	53 896	118 928	49 006
Burnt pyrites	tonnes	—	—	15 457	8	—
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 064	10 299	10 263	17 316	17 014
Sponge and powder	tonnes	3 602	1 742	3 229	3 586	8 505
Ferro-silico-magnesium	tonnes	841	16	114	8	32
Ferro-manganese	tonnes	145	101	139	121	248
Ferro-silicon	tonnes	1 702	569	2 864	3 328	3 655
Other ferro-alloys	tonnes	1 559	448	149	98	87
Ingots, blooms, billets	tonnes	672 439	328 893	538 503	609 342	420 037
Scrap	tonnes	392 453	269 841	337 192	242 848	208 231
Kaolin	tonnes	47 525	37 738	37 007	37 755	53 815
Lead						
Unwrought	tonnes	192	107	128	172	182
Scrap	tonnes	1 984	2 583	2 890	1 989	2 655
Lithium						
Carbonate	tonnes	311	402	340	358	80
Magnesite and magnesia						
Magnesite	tonnes	456	2 680	2 728	2 299	1 784
Magnesia	tonnes	4 149	5 472	4 636	4 927	5 219
Manganese						
Ores and concentrates	tonnes	698	1 158	257	1 051	352
Mica	tonnes	276	242	237	150	148
Molybdenum						
Oxides	tonnes	361	388	418	253	345
Nickel						
Scrap	tonnes	100	122	382	234	227
Crude petroleum	tonnes	2 240 240	3 320 486	2 562 669	2 625 412	3 150 386
Natural gas	tonnes	...	...	103 236	198 509	119
Platinum metals						
Platinum and platinum metals	kilograms	6 448	4 699	2 300	796	500
Potash						
Sulphate	tonnes	1 878	1 019	1 910	9 335	11 225
Chloride	tonnes	47 885	4 917	36 608	42 472	30 823
Other potassic fertilisers	tonnes	24 438	11 052	14 967	8 473	4 816
Rare earths						
Cerium compounds	tonnes	11	734	15	16	19
Other rare earth compounds	tonnes	10	36	19	6	3
Salt	tonnes	213 931	421 109	762 420	907 135	351 217
Sillimanite minerals						
Sillimanite minerals	tonnes	915	1 011	1 124	792	386
Mullite	tonnes	1 567	1 587	3 199	2 590	1 714
Silver						
Metal	kilograms	51 992	1 873 817	612 600	172 900	66 700
Sulphur and pyrites						
Sulphur	tonnes	2 082	4 447	7 051	6 123	4 173

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Talc	tonnes	12 055	8 035	7 013	6 276	6 883
Tin						
Unwrought (a)	tonnes	30	13	110	136	195
Titanium						
Metal	tonnes	774	670	674	1 723	1 948
Oxides	tonnes	17 055	17 511	20 427	23 296	17 706
Tungsten						
Metal	tonnes	110	105	51	41	32
Zinc						
Unwrought	tonnes	12 591	6 063	4 427	6 023	6 877
Unwrought alloys	tonnes	910	771	1 310	763	923

Note(s)

(a) Including alloys

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

Estonia

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	3 635 700	3 911 980	3 469 220	3 568 680	3 941 800
Crushed rock	tonnes	7 945 900	6 034 500	5 849 600	5 919 500	6 063 700
Cement						
Cement, clinker	tonnes	1 040 000	448 500	537 000	719 000	714 600
Cement, finished	tonnes	808 000	326 200	375 000	451 000	481 500
Crude steel	tonnes	—	—	—	1	185
Lead, refined	tonnes	10 000	10 000	10 000	10 000	8 000
Crude petroleum (a)	tonnes	1 869 500	1 733 000	2 080 000	2 173 132	2 180 313

Note(s)

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

(a) From oil shale

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	701 067	503 048	810 298	745 353	689 854
Aluminium and bauxite						
Bauxite	tonnes	42	80	...	29 492	23 317
Unwrought (a)	tonnes	27 839	8 357	4 132	52	1 220
Scrap	tonnes	19 895	6 958	65 948	63 880	11 342
Antimony						
Metal	tonnes	...	...	67	113	...
Cement						
Cement clinkers	tonnes	426 384	395 641	222 190	426 994	347 754
Portland cement	tonnes	383 449	120 294	148 505	186 255	208 131
Other cement	tonnes	1 387	59	488	752	1 107
Coal						
Hard coal	tonnes	(c)* 13 000	(b) 20 296	(b) 16 452	(b) 2 312	741
Copper						
Unwrought	tonnes	131	520	1 790	744	2 386
Scrap	tonnes	8 185	5 633	6 915	5 171	5 549
Gold						
Metal	kilograms	...	—	400	2 300	1 600
Gypsum						
Crude and calcined	tonnes	4 154	22	87	105	1 781
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	153	100	124	142	1 012
Scrap	tonnes	650 099	384 299	512 766	563 124	631 831
Kaolin	tonnes	...	—	878	830	1 019
Lead						
Unwrought	tonnes	10 473	8 861	10 624	11 513	11 042
Manganese						
Metal	tonnes	226	137	5	25	10
Nickel						
Unwrought	tonnes	(a) 2	(a) —	(a) 2	2	539
Scrap	tonnes	1 680	89	0	536	144
Platinum metals						
Platinum and platinum metals	kilograms	...	7	...	—	654
Waste and scrap	kilograms	...	800	7 700	9 100	8 800
Rare earths						
Metals	tonnes	1	1	1	...	42
Rare earth compounds	tonnes	2 916	2 679	1 686	1 124	3 210
Salt	tonnes	121	277	2 055	3 685	2 968
Silver						
Metal	kilograms	13	955	200	4 600	1 600

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Tantalum and niobium						
Tantalum	tonnes	67	47	34	76	49
Tin						
Scrap	tonnes	88	124	120	56	121
Titanium						
Oxides	tonnes	579	158	49	164	468
Tungsten						
Metal	tonnes	—	—	1	...	61
Zinc						
Scrap	tonnes	2 860	1 065	509	637	410

Note(s)

(a) Including alloys

(b) Including anthracite

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	988 981	1 006 376	1 395 122	1 302 589	1 215 348
Aluminium and bauxite						
Unwrought (a)	tonnes	26 545	5 956	3 176	2 231	2 811
Scrap	tonnes	485	535	4 495	2 488	488
Bentonite and fuller's earth						
Bentonite	tonnes	1 506	1 631	3 352	2 937	2 670
Cement						
Cement clinkers	tonnes	25 438	—	13 474	(b)* 1 800	4 688
Portland cement	tonnes	4 613	30 424	36 354	52 807	27 404
Other cement	tonnes	304	458	827	1 545	13 043
Coal						
Hard coal (c)	tonnes	123 194	30 413	77 300	89 422	81 082
Copper						
Unwrought	tonnes	659	489	520	484	4 180
Feldspar	tonnes	114	115	94	109	17 881
Gold						
Metal	kilograms	1 200	300	900	1 600	900
Gypsum						
Crude	tonnes	19 239	381	11 295	11 922	16 772
Calcined	tonnes	18 823	8 760	8 950	8 343	7 718
Iodine	kilograms	18	196	13 157	258	39
Iron, steel and ferro-alloys						
Ferro-niobium	tonnes	840	220	438	374	411
Ferro-silicon	tonnes	52	2	21	149	61
Other ferro-alloys	tonnes	222	83	213	79	102
Scrap	tonnes	37 774	9 267	8 434	12 230	8 305
Kaolin	tonnes	3 902	1 588	881	211	8 568
Manganese						
Metal	tonnes	478	168	576	85	—
Natural gas	tonnes	717 831	477 844	491 806	478 288	452 299
Potash						
Chloride	tonnes	8 665	1	1 517	1 898	2 438
Other potassic fertilisers	tonnes	9	5	57	1 491	1 960
Rare earths						
Cerium compounds	tonnes	0	0	24	501	545
Other rare earth compounds	tonnes	4 469	4 125	2 105	3 616	4 499
Salt	tonnes	72 149	73 931	73 254	85 105	73 248
Silver						
Metal	kilograms	5 800	2 900	3 200	5 000	1 700
Talc	tonnes	331	332	373	451	429
Tantalum and niobium						
Tantalum	tonnes	6	—	37	20	1

Estonia

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Titanium						
Metal	tonnes	97	50	82	5	683
Oxides	tonnes	2 106	1 349	1 409	1 724	1 921
Zinc						
Unwrought (a)	tonnes	7 676	1 595	5 978	8 887	4 987

Note(s)

(a) Including alloys

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

(c) Including anthracite

Finland

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	53 000 000	37 000 000	36 000 000	36 000 000	34 000 000
Crushed rock	tonnes	60 000 000	47 000 000	48 000 000	53 000 000	54 000 000
Cement						
Cement, finished (a)	tonnes	1 638 000	1 041 866	1 204 581	1 379 760	1 292 855
Chromium	tonnes	614 000	247 000	598 000	693 000	452 000
Cobalt, mine	tonnes (metal content)	* 100	* 27	* 140	480	* 1 381
Cobalt metal	tonnes	9 645	8 970	9 429	10 627	10 562
Copper, mine	tonnes (metal content)	13 300	14 600	14 700	14 000	25 446
Copper, smelter	tonnes	142 154	110 479	112 687	116 455	124 527
Copper, refined	tonnes	131 249	105 411	112 687	124 360	129 256
Feldspar	tonnes	45 250	23 120	28 013	26 292	43 124
Gold	kilograms (metal content)	4 148	5 749	7 628	8 461	10 814
Pig iron	tonnes	2 942 946	2 042 000	2 564 000	2 600 000	2 461 000
Crude steel	tonnes	4 416 792	3 066 000	4 029 000	3 989 000	3 759 000
Ferro-alloys						
Ferro-chrome	tonnes	233 550	123 310	238 000	231 000	229 000
Mercury	kilograms (metal content)	33 120	6 210	9 000	5 000	—
Mica	tonnes	10 706	7 855	13 809	12 896	12 112
Nickel, mined	tonnes (metal content)	6 200	1 600	12 100	18 800	19 568
Nickel, smelter/refinery	tonnes	51 963	41 556	49 772	49 823	46 275
Phosphate rock	tonnes	780 000	658 347	817 289	869 694	858 005
Platinum metals						
Platinum	kilograms (metal content)	—	—	—	—	429
Palladium	kilograms (metal content)	—	—	—	—	379
Selenium metal	tonnes	65	59	73	86	93
Silver	kilograms (metal content)	69 906	70 062	64 596	73 081	128 200
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	226 000	153 600	250 000	338 000	375 000
Recovered (b)	tonnes (sulphur content)	331 000	273 600	270 000	940 000	990 000
Recovered (c)	tonnes (sulphur content)	117 000	127 000	122 000	133 300	* 140 000
Talc	tonnes	527 686	375 302	419 345	429 494	396 332
Wollastonite	tonnes	15 600	9 200	12 100	11 500	* 11 500
Zinc, mine	tonnes (metal content)	27 800	30 233	55 562	64 115	52 200
Slab zinc	tonnes	297 722	295 049	307 144	307 352	314 742

Note(s)

(1) Finland is also believed to produce arsenic

(a) Sales

(b) From metal sulphide processing

(c) From petroleum refining and/or natural gas

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	850 685	645 609	1 396 025	2 020 822	953 926
Aluminium and bauxite						
Unwrought alloys	tonnes	14 239	8 939	15 346	11 289	14 185
Scrap	tonnes	37 345	34 910	33 304	38 862	43 221
Bentonite and fuller's earth						
Bentonite	tonnes	42	803	0	61	27
Bromine	kilograms	...	...	...	22 200	—
Cement						
Portland cement	tonnes	2 618	1 275	373	92	6
Chromium						
Ores and concentrates	tonnes	3 041	2 050	8 291	5 231	4 575
Metal	tonnes	1 034	1 577	1 813	2 366	1 950

Finland

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Cobalt						
Oxides (a)	tonnes	* 2 600	* 3 100	* 5 400	* 6 400	* 4 300
Metal (a)	tonnes	* 5 700	* 4 500	* 3 900	* 4 200	* 6 000
Copper						
Matte and cement	tonnes	...	...	...	19 610	18 588
Scrap	tonnes	32 585	32 762	32 819	33 714	32 739
Unwrought, unrefined	tonnes	27 525	37 084	35 132	24 908	29 714
Unwrought, refined	tonnes	68 331	41 139	57 969	41 603	59 950
Feldspar	tonnes	36 482	26 613	31 844	31 700	47 889
Gold						
Metal	kilograms	2 835	2 207	4 168	4 970	2 841
Waste and scrap	kilograms	466	539	878	1 268	88 389
Iron ore (b)	tonnes	396 064	244 225	391 549	* 1 200 000	* 800 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 070	11 317	2 564	373	14 459
Ferro-chrome	tonnes	37 709	61 319	126 713	97 322	104 829
Other ferro-alloys	tonnes	110	308	560	211	217
Ingots, blooms, billets	tonnes	281 325	253 440	263 863	219 129	127 904
Scrap	tonnes	308 047	276 010	229 680	341 937	361 107
Kaolin	tonnes	8 587	13 832	18 176	30 760	40 550
Manganese						
Metal	tonnes	98	341	32	25	2
Mercury	kilograms	35 000	6 211	9 321	4 830	—
Mica	tonnes	7 138	6 125	11 377	8 636	9 242
Nickel						
Mattes, sinters etc	tonnes	...	...	...	7 732	13 387
Ores and concentrates	tonnes	14 069	—	8 946	23 411	55 260
Unwrought	tonnes	40 108	37 202	(c) 31 275	(c) 39 472	36 364
Oxides (a)	tonnes	* 500	* 200	* 500	* 200	* 200
Scrap	tonnes	27	1 511	323	33	39
Natural gas	tonnes	1 420	4 557	9 052	4 729	34
Phosphate rock	tonnes	3 248	3 796	52 006	117 304	43 597
Platinum metals						
Platinum and platinum metals	kilograms	30	34 126	6 238	6 684	3 927
Waste and scrap	kilograms	218	267	723	75	454
Potash						
Sulphate	tonnes	17 181	45 818	53 850	* 61 000	* 51 000
Chloride	tonnes	50 822	26	178	195	1
Rare earths						
Rare earth compounds	tonnes	103	0	44	67	0
Salt	tonnes	336	336	11 380	1 370	401
Silver						
Metal	kilograms	3 400	1 680	1 162	1 336	1 084
Sulphur and pyrites						
Pyrites (a)	tonnes	* 386 000	* 88 000	* 198 000	* 460 000	* 520 000
Sulphur	tonnes	2 521	35 701	2 715	2 404	2 871
Talc (a)	tonnes	* 320 000	* 174 000	* 222 000	* 259 000	* 249 000
Tin						
Scrap	tonnes	193	124	142	139	171
Titanium						
Oxides (a)	tonnes	* 106 000	* 86 000	* 88 000	* 80 000	* 66 000
Tungsten						
Metal	tonnes	360	291	450	588	480
Zinc						
Ores and concentrates	tonnes	1 238	1 426	22 479	50 656	39 555
Unwrought (c)	tonnes	257 411	268 893	266 738	265 686	271 313
Scrap	tonnes	964	1 012	1 369	1 215	1 066

Note(s)

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

(b) Including burnt pyrites

(c) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	280 600	330 108	284 066	52 920	96 804
Aluminium and bauxite						
Bauxite	tonnes	10 461	1 584	9 294	3 036	1 328
Alumina	tonnes	2 350	1 733	2 401	2 422	2 479
Alumina hydrate	tonnes	22 243	20 614	29 607	25 676	22 996
Unwrought	tonnes	1 332	1 204	2 008	2 070	1 596
Unwrought alloys	tonnes	41 635	29 303	37 539	37 589	32 897
Scrap	tonnes	21 978	10 998	15 466	15 803	14 080
Antimony						
Oxide	tonnes	160	101	116	80	104
Barytes	tonnes	4 735	2 573	4 406	4 383	4 101
Bentonite and fuller's earth						
Bentonite	tonnes	31 445	19 429	16 293	21 194	24 913
Bromine	kilograms	146 800	242 982	318 478	322 231	441 332
Cement						
Cement clinkers	tonnes	236 439	536	14 191	16 790	7 512
Portland cement	tonnes	281 924	320 084	587 410	549 673	498 577
Other cement	tonnes	15 911	12 232	10 202	16 408	13 870
Chromium						
Ores and concentrates	tonnes	8 866	4 521	9 197	20 853	9 372
Metal	tonnes	327	105	139	194	139
Coal						
Hard coal (a)	tonnes	5 671 385	5 937 153	5 919 757	6 972 540	3 954 916
Cobalt						
Ore	tonnes	26 500	15 146	9 867	8 994	7 477
Metal	tonnes	36 405	24 002	30 623	53 059	54 106
Oxides	tonnes	167	46	233	172	298
Copper						
Ores and concentrates	tonnes	536 584	352 370	458 174	415 365	424 982
Unwrought	tonnes	2 490	16 298	4 212	4 711	6 366
Unwrought alloys	tonnes	3 542	2 415	2 783	2 528	1 819
Scrap	tonnes	4 146	7 349	6 967	7 726	9 839
Diamond						
Gem, rough	Carats	£109 000	£56 000	£168 000	£131 000	£111 000
Gem, cut	Carats	£3 698 000	£3 133 000	£3 575 000	£3 346 000	£3 201 000
Industrial	Carats	500 000	20 000	65 000	520 000	20 000
Dust	Carats	625 200	273 415	519 830	773 725	645 000
Diatomite	tonnes	3 344	3 015	4 367	3 432	3 426
Feldspar	tonnes	699	851	1 209	1 217	4 902
Fluorspar	tonnes	12 366	23 178	16 740	17 605	16 818
Gold						
Metal	kilograms	200	549	650	595	1 358
Gypsum						
Crude	tonnes	408 509	146 141	235 787	182 082	223 784
Calcined	tonnes	6 598	5 664	7 281	11 020	9 270
Iodine	kilograms	3 400	2 901	1 443	1 174	856
Iron ore	tonnes	3 121 303	2 204 018	(b) 3 052 609	3 728 222	3 220 998
Iron, steel and ferro-alloys						
Pig iron	tonnes	42 681	18 097	36 120	31 235	21 728
Sponge and powder	tonnes	942 664	493 087	872 476	1 871	1 102
Ferro-chrome	tonnes	11 182	5 094	7 055	8 274	33 392
Ferro-silico-magnesium	tonnes	880	309	190	158	220
Ferro-manganese	tonnes	15 709	5 985	10 595	11 784	10 170
Ferro-silico-manganese	tonnes	34 139	20 642	30 204	30 169	* 22 000
Ferro-molybdenum	tonnes	1 730	584	1 316	1 717	* 1 200
Ferro-nickel	tonnes	50 294	17 098	25 746	40 962	* 51 000
Ferro-niobium	tonnes	757	318	629	849	874
Ferro-phosphorus	tonnes	380	285	543	499	325
Ferro-silicon	tonnes	29 740	21 437	31 395	30 207	34 361
Ferro-titanium and ferro-silico-titanium	tonnes	1 857	710	1 043	1 843	942
Ferro-vanadium	tonnes	315	91	235	193	134
Other ferro-alloys	tonnes	2 997	1 028	4 648	4 839	1 545
Silicon metal	tonnes	1 638	548	1 390	1 281	845
Ingots, blooms, billets	tonnes	11 114	30 206	18 268	17 119	10 111
Scrap	tonnes	596 792	467 642	754 398	710 558	46 094
Kaolin	tonnes	1 147 687	708 210	941 387	936 544	860 241

Finland

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Lead						
Unwrought	tonnes	3 195	2 346	1 512	2 446	3 821
Magnesite and magnesite						
Magnesite	tonnes	145	224	118	576	568
Magnesia	tonnes	8 692	6 439	7 387	9 214	8 959
Manganese						
Ores and concentrates	tonnes	24 926	12 224	21 961	3 792	329
Metal	tonnes	2 649	912	2 134	2 123	2 144
Mercury	kilograms	209	2 136	2 203	4 069	36
Mica	tonnes	4 383	1 988	3 647	3 351	2 267
Molybdenum						
Ores and concentrates	tonnes	3 498	40	—	...	—
Nickel						
Ores and concentrates	tonnes	290 914	185 202	217 164	276 892	276 587
Mattes, sinters etc	tonnes	33 247	22 715	33 986	35 284	30 443
Unwrought	tonnes	18 187	9 192	14 558	9 946	—
Unwrought alloys	tonnes	14	792	17 649	2 688	—
Scrap	tonnes	481	149	17	40	8
Crude petroleum	tonnes	11 908 304	11 516 562	11 211 580	11 504 505	11 088 493
Natural gas	tonnes	6 028 908	—	3 252 037	3 543 126	(c)* 3 000 000
Phosphate rock	tonnes	118 749	—	28 144	...	—
Potash						
Chloride (d)	tonnes	164 400	84 600	194 800	211 100	207 500
Other potassic fertilisers	tonnes	184	74	117	4 602	1 100
Rare earths						
Cerium compounds	tonnes	101	57	72	52	18
Other rare earth compounds	tonnes	7	9	8	14	5
Ferro-cerium and other pyrophoric alloys	tonnes	0	1	2	2	10
Salt	tonnes	397 033	417 495	384 089	452 873	385 359
Silver						
Metal	kilograms	44 800	(c)* 47 900	50 681	26 764	19 618
Sulphur and pyrites						
Sulphur	tonnes	9 073	1 673	21 676	38 923	29 283
Sulphur, sublimed and precipitated	tonnes	450	6	3	4	43
Talc	tonnes	503	525	1 202	1 929	1 624
Tin						
Unwrought (e)	tonnes	184	94	188	136	124
Titanium						
Titanium minerals	tonnes	26 200	8 794	(c)* 20	(c)* 3 154	(c)* 20
Metal	tonnes	97	87	60	66	81
Oxides	tonnes	14 256	12 524	15 571	15 533	13 638
Tungsten						
Metal	tonnes	296	205	403	567	456
Zinc						
Ores and concentrates	tonnes	582 049	532 036	559 918	547 265	558 963
Unwrought (e)	tonnes	4 242	3 705	4 374	1 471	1 146

Note(s)

(a) Including anthracite

(b) Including burnt pyrites

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

(d) K₂O content

(e) Including alloys

France

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	171 610 000	146 290 000	141 290 000	148 680 000	138 280 000
Crushed rock	tonnes	236 770 000	209 440 000	201 860 000	204 980 000	196 600 000
Bauxite	tonnes	101 700	129 700	93 100	80 800	69 500
Alumina	tonnes	630 000	348 000	481 000	470 000	430 000
Primary aluminium	tonnes	389 000	345 000	356 000	334 000	349 000
Bentonite and fuller's earth						
Bentonite	tonnes	...	25 000	25 000	20 000	28 000
Cement						
Cement, clinker	tonnes	16 885 000	14 568 000	14 901 000	15 229 000	14 178 000
Cement, finished	tonnes	21 443 000	18 300 000	17 998 000	19 433 000	18 018 000
Cobalt metal	tonnes	311	368	302	354	326
Diatomite	tonnes	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Feldspar	tonnes	* 650 000	* 550 000	* 650 000	* 600 000	600 000
Gypsum (a)	tonnes	2 338 910	1 887 260	2 065 814	2 452 204	* 2 500 000
Pig iron	tonnes	11 371 879	8 104 318	10 136 827	9 697 535	9 531 844
Crude steel	tonnes	17 879 161	12 840 108	15 413 577	15 780 639	15 607 227
Ferro-alloys						
Ferro-manganese	tonnes	46 600	46 000	138 100	130 500	* 131 000
Ferro-silico-manganese	tonnes	60 200	54 100	62 400	63 400	* 64 000
Ferro-silicon	tonnes	* 30 000	* 18 300	* 27 000	* 59 000	* 60 000
Silicon metal	tonnes	* 118 000	* 80 000	* 112 000	* 128 000	* 130 000
Kaolin	tonnes	335 520	350 000	350 000	310 000	308 000
Lead, refined	tonnes	82 100	62 000	71 000	80 000	75 000
Mica (b)	tonnes	* 20 000	* 18 000	* 19 000	* 19 000	* 18 000
Nickel, smelter/refinery	tonnes	13 700	13 900	14 400	13 700	14 500
Crude petroleum	tonnes	975 000	971 000	903 000	901 000	888 000
Natural gas	million m ³	925	813	736	623	510
Salt	tonnes	* 6 100 000	* 6 100 000	* 6 100 000	* 6 100 000	* 6 100 000
Sillimanite minerals						
Andalusite	tonnes	* 65 000	* 65 000	* 65 000	* 65 000	* 68 000
Talc	tonnes	* 420 000	400 000	400 000	400 000	* 400 000
Slab zinc	tonnes	118 000	161 000	162 000	164 000	161 000

Note(s)

(1) France is also believed to produce sulphur

(2) France may produce fuller's earth

(3) Significant quantities of germanium are believed to be recovered from imported domestic material

(a) Including anhydrite

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

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	8 565 175	7 586 323	8 142 237	7 226 413	7 769 899
Aluminium and bauxite						
Bauxite	tonnes	12 295	9 296	12 116	13 594	11 975
Alumina	tonnes	319 388	178 570	270 769	281 634	309 291
Alumina hydrate	tonnes	130 881	100 293	131 035	83 054	139 311
Unwrought	tonnes	46 364	91 682	51 275	71 970	45 172
Unwrought alloys	tonnes	139 176	125 580	166 807	130 384	127 551
Scrap	tonnes	344 436	345 372	405 847	425 541	423 298
Antimony						
Metal	tonnes	44	34	145	24	60
Oxide	tonnes	6 261	6 788	6 853	6 124	5 482
Arsenic						
Metallic arsenic	tonnes	5	9	5	8	10

France

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Barytes (a)	tonnes	* 10 000	* 11 500	* 10 500	* 10 600	* 11 700
Bentonite and fuller's earth						
Bentonite	tonnes	12 231	9 211	12 709	11 472	8 826
Bismuth						
Metal	tonnes	74	6	20	49	115
Cadmium						
Metal	tonnes	890	1 022	763	549	733
Cement						
Cement clinkers	tonnes	260 529	170 883	282 673	179 184	210 901
Portland cement	tonnes	578 230	621 568	766 167	764 305	765 777
Other cement	tonnes	10 056	—	—	—	—
Chromium						
Ores and concentrates	tonnes	4 694	1 935	2 422	2 168	1 858
Metal	tonnes	7 844	4 767	7 612	8 034	9 720
Coal						
Anthracite	tonnes	57 436	5 272	9 551	4 760	11 423
Other coal	tonnes	128 614	91 266	121 733	113 718	168 068
Briquettes	tonnes	1 380	6 045	4 495	2 390	109
Cobalt						
Oxides	tonnes	28	50	3	3	4
Metal	tonnes	859	706	785	1 086	1 100
Copper						
Unwrought, unrefined	tonnes	512	1 002	7 356	9 545	2 430
Unwrought, refined	tonnes	54 893	59 426	23 258	35 309	39 858
Unwrought alloys	tonnes	13 049	9 455	12 786	10 624	11 182
Scrap	tonnes	266 930	235 277	292 631	305 883	317 556
Diamond						
Gem	Carats	293 420	394 845	145 682	129 943	* 500 000
Dust	Carats	838 620	940 610	1 609 470	8 768 911	2 075 000
Diatomite	tonnes	23 239	21 713	26 822	25 420	25 245
Feldspar	tonnes	244 785	182 575	226 149	226 934	207 687
Gold						
Metal	kilograms	22 247	22 447	27 729	45 303	54 233
Waste and scrap	kilograms	50 700	34 094	24 189	29 961	10 955
Graphite	tonnes	269	226	361	321	166
Gypsum						
Crude	tonnes	381 841	267 315	259 192	239 815	267 365
Calcined	tonnes	338 682	282 254	286 799	310 248	289 668
Iodine	kilograms	100 500	101 909	47 103	89 357	187 560
Iron ore	tonnes	57 720	124 492	(b) 19 349	129 374	87 981
Iron, steel and ferro-alloys						
Pig iron	tonnes	88 462	151 699	52 439	53 736	44 010
Sponge and powder	tonnes	14 698	5 261	18 917	20 857	9 484
Ferro-chrome	tonnes	2 098	2 217	2 447	2 035	2 837
Ferro-silico-magnesium	tonnes	272	844	1 259	1 222	2 381
Ferro-manganese	tonnes	2 457	2 882	2 200	2 554	1 704
Ferro-silico-manganese	tonnes	42 260	41 324	51 330	54 023	51 068
Ferro-molybdenum	tonnes	374	379	548	802	972
Ferro-nickel	tonnes	46	10 496	6 104	1 042	787
Ferro-niobium	tonnes	984	261	505	220	186
Ferro-silicon	tonnes	73 824	51 676	77 144	84 879	74 961
Ferro-titanium and ferro-silico-titanium	tonnes	1 493	844	1 869	1 985	1 660
Other ferro-alloys	tonnes	28 430	10 077	37 932	33 076	45 776
Silicon metal	tonnes	...	231	261	298	85
Ingots, blooms, billets	tonnes	2 830 986	1 814 051	1 858 111	2 088 739	2 232 987
Scrap	tonnes	6 028 712	5 402 426	6 665 264	6 240 254	6 233 179
Kaolin	tonnes	319 301	268 674	272 778	273 802	244 439
Lead						
Unwrought	tonnes	17 630	14 554	36 293	40 470	53 971
Scrap	tonnes	15 888	20 815	37 654	20 392	15 936
Lithium						
Oxides	tonnes	5	91	46	108	103
Magnesite and magnesite						
Magnesite	tonnes	310	576	274	207	250
Magnesia	tonnes	57 342	35 523	52 553	35 543	38 098

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Manganese						
Ores and concentrates (c)	tonnes	321 638	138 787	152 425	125 827	118 915
Metal	tonnes	488	631	717	805	1 081
Mercury	kilograms	1 700	718	1 595	49 992	2 233
Mica	tonnes	13 923	10 819	12 455	12 821	11 771
Molybdenum						
Ores and concentrates	tonnes	55	75	205	352	81
Metal	tonnes	118	34	47	36	317
Nickel						
Mattes, sinters etc	tonnes	178	68	315	1 306	1 384
Unwrought	tonnes	10 754	12 095	9 376	10 997	11 477
Unwrought alloys	tonnes	2 475	1 377	1 307	1 875	1 818
Scrap	tonnes	7 558	11 435	30 601	11 685	12 683
Crude petroleum	tonnes	65	1 689	161 761	467 914	427 246
Natural gas	tonnes	22 087 224	3 469 724	2 908 272	8 017 462	—
Phosphate rock (a)	tonnes	* 22 000	* 22 000	* 18 000	* 19 000	* 31 000
Platinum metals						
Platinum	kilograms	2 033	1 140	1 884	2 566	4 139
Platinum metals	kilograms	2 120	1 396	914	1 255	107 354
Waste and scrap	kilograms	282 400	609 699	179 798	270 355	352 702
Potash						
Sulphate	tonnes	34 777	18 248	17 085	25 238	17 335
Chloride	tonnes	11 416	9 858	36 215	15 947	65 461
Other potassic fertilisers	tonnes	327	414	1 788	2 772	3 714
Rare earths						
Metals	tonnes	11	3	8	11	12
Rare earth compounds	tonnes	1 854	1 244	3 411	2 789	2 097
Salt	tonnes	231 953	277 617	297 909	190 124	147 441
Sillimanite minerals	tonnes	66 242	38 494	49 011	55 316	43 751
Silver						
Ores and concentrates	kilograms	51 100	1 597 157	—	4 053	319
Metal	kilograms	215 148	169 806	258 205	511 716	392 507
Sulphur and pyrites						
Sulphur	tonnes	246 005	313 229	296 345	248 989	237 974
Sulphur, sublimed and precipitated	tonnes	2 843	445	565	556	394
Talc	tonnes	269 771	224 419	270 494	269 518	271 399
Tantalum and niobium						
Tantalum	tonnes	18	37	20	25	41
Tin						
Concentrates	tonnes	16	44	341	89	74
Unwrought	tonnes	441	402	423	413	485
Unwrought alloys	tonnes	236	140	143	178	145
Scrap	tonnes	654	282	342	532	484
Titanium						
Metal	tonnes	5 391	4 523	4 907	5 333	5 946
Oxides	tonnes	148 573	113 798	129 197	140 278	114 715
Tungsten						
Metal	tonnes	676	398	473	589	962
Carbide	tonnes	354	261	288	272	353
Zinc						
Ores and concentrates	tonnes	78 398	39 350	49 652	54 609	62 111
Unwrought	tonnes	31 601	64 773	79 727	105 934	80 747
Unwrought alloys	tonnes	5 073	9 362	1 851	2 549	1 938
Scrap	tonnes	43 770	45 986	51 755	42 736	42 231
Zirconium						
Concentrates	tonnes	1 440	1 243	2 044	4 973	1 708

Note(s)

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

(b) Including burnt pyrites

(c) Including manganiferous Iron ore

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	11 214 300	10 907 837	9 838 820	11 224 302	10 814 082
Aluminium and bauxite						
Bauxite	tonnes	1 788 358	1 024 569	984 804	1 577 328	1 443 488
Alumina	tonnes	722 371	849 798	734 935	619 175	734 773
Alumina hydrate	tonnes	51 289	46 113	47 336	47 510	43 650
Unwrought	tonnes	113 771	87 130	103 937	152 348	134 309
Unwrought alloys	tonnes	396 382	311 287	364 962	387 038	277 335
Scrap	tonnes	197 876	216 872	260 871	292 597	267 325
Antimony						
Ores and concentrates	tonnes	37	26	101	74	0
Metal	tonnes	9 078	7 682	9 068	7 413	6 502
Oxide	tonnes	1 923	1 277	1 577	2 854	1 677
Arsenic						
Metallic arsenic	tonnes	8	4	17	21	30
Asbestos						
Unmanufactured	tonnes	120	34	42	19	14
Barytes	tonnes	34 166	26 227	41 513	29 516	40 294
Bentonite and fuller's earth						
Bentonite	tonnes	198 787	158 715	159 096	194 555	180 301
Bismuth						
Metal	tonnes	219	102	100	205	281
Bromine	kilograms	12 428 800	11 720 470	5 275 994	8 449 327	8 999 985
Cadmium						
Metal	tonnes	645	455	212	100	285
Oxide	tonnes	1 114	605	18	7	6
Cement						
Cement clinkers	tonnes	1 338 362	784 892	838 538	849 577	693 269
Portland cement	tonnes	1 940 065	1 744 423	2 422 582	3 113 977	3 057 832
Other cement	tonnes	1 185 083	980 685	559 436	246 702	239 915
Chromium						
Ores and concentrates	tonnes	26 952	10 813	11 273	15 835	14 844
Metal	tonnes	1 335	478	1 155	524	466
Coal						
Anthracite	tonnes	2 817 048	1 914 614	2 291 609	1 304 643	1 527 937
Other coal	tonnes	18 470 782	13 893 343	16 688 152	14 073 053	16 249 645
Lignite	tonnes	68 426	51 577	52 076	82 504	75 621
Briquettes	tonnes	154 140	151 863	129 465	102 257	164 158
Cobalt						
Metal	tonnes	2 251	1 203	1 681	2 338	2 013
Oxides	tonnes	574	578	635	841	611
Copper						
Unwrought	tonnes	435 455	265 766	227 271	226 312	218 176
Scrap	tonnes	81 036	50 753	72 220	81 824	76 972
Unwrought alloys	tonnes	8 987	7 980	9 242	9 148	8 200
Diamond						
Unsorted	Carats	£3 028 000	£3 338 000	£2 913 000	£3 615 000	£11 789 000
Gem, rough	Carats	344	1 854	469	2 960	* 1 500
Gem, cut	Carats	450 568	691 852	468 867	660 561	* 843 000
Industrial	Carats	73 641	40 221	30 480	30 012	* 54 000
Dust	Carats	13 938 146	9 314 960	12 512 821	22 167 841	21 135 000
Diatomite	tonnes	14 308	15 163	17 477	14 098	13 279
Feldspar	tonnes	59 857	43 981	31 721	34 907	36 109
Fluorspar	tonnes	21 256	13 124	14 601	14 655	15 879
Gold						
Metal	kilograms	20 071	16 877	20 037	19 721	18 994
Waste and scrap	kilograms	3 300	6 248	25 070	3 886	697
Graphite	tonnes	20 618	10 376	9 981	11 725	8 201
Gypsum						
Crude	tonnes	492 072	354 086	313 842	249 933	283 071
Calcined	tonnes	116 678	101 840	85 849	76 800	73 772
Iodine	kilograms	1 875 400	1 189 569	1 530 436	1 492 427	1 501 344
Iron ore						
Iron ore	tonnes	18 220 893	10 014 901	15 259 049	13 531 471	13 718 095
Burnt pyrites	tonnes	4 948	5 375	11 603	11 452	23 894

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	202 077	115 722	139 186	160 336	140 321
Sponge and powder	tonnes	89 809	26 695	52 795	84 787	38 973
Ferro-chrome	tonnes	111 584	71 570	111 080	99 240	106 591
Ferro-silico-magnesium	tonnes	1 969	1 375	1 047	1 102	483
Ferro-manganese	tonnes	69 464	33 948	44 405	43 245	37 724
Ferro-silico-manganese	tonnes	54 004	34 758	35 405	44 217	58 938
Ferro-molybdenum	tonnes	5 637	3 263	3 720	4 857	4 441
Ferro-nickel	tonnes	5 887	12 709	7 724	16 270	4 818
Ferro-niobium	tonnes	3 266	1 183	2 195	2 225	1 608
Ferro-phosphorus	tonnes	2 698	1 670	2 656	2 227	1 833
Ferro-silicon	tonnes	61 740	30 913	51 906	65 306	54 824
Ferro-titanium and ferro-silico-titanium	tonnes	8 293	2 647	5 457	5 756	3 958
Ferro-tungsten and ferro-silico-tungsten	tonnes	666	247	343	378	303
Ferro-vanadium	tonnes	1 575	819	1 065	1 113	811
Other ferro-alloys	tonnes	24 885	10 711	16 247	15 035	8 602
Silicon metal	tonnes	23 885	15 243	19 135	19 373	27 828
Ingots, blooms, billets	tonnes	1 747 005	1 113 710	1 807 094	2 047 778	1 728 612
Scrap	tonnes	3 241 199	2 407 619	2 450 993	2 682 258	2 732 380
Kaolin	tonnes	263 449	200 203	231 779	220 764	223 649
Lead						
Unwrought	tonnes	103 535	42 187	34 090	39 305	38 918
Scrap	tonnes	22 490	13 579	12 848	15 182	14 265
Lithium						
Oxides	tonnes	256	362	570	479	547
Carbonate	tonnes	1 251	1 172	1 137	2 792	1 756
Magnesite and magnesia						
Magnesite	tonnes	2 378	1 209	784	1 087	4 013
Magnesia	tonnes	164 235	117 821	126 821	127 469	115 590
Manganese						
Ores and concentrates (a)	tonnes	876 961	193 684	721 272	647 182	562 298
Metal	tonnes	19 115	8 905	17 586	21 186	9 231
Mercury	kilograms	105 300	222 224	19 073	1 406	252
Mica						
Unmanufactured	tonnes	1 144	370	255	848	488
Ground	tonnes	2 031	1 844	1 861	2 149	1 828
Molybdenum						
Ores and concentrates	tonnes	1 933	769	1 209	1 764	1 575
Metal	tonnes	1 094	541	888	1 098	942
Oxides	tonnes	1 191	1 018	1 095	1 465	1 365
Nickel						
Ores and concentrates	tonnes	413	1 783	265	37	290
Mattes, sinters etc	tonnes	18 952	20 015	19 921	19 954	19 395
Unwrought	tonnes	23 368	10 909	13 964	21 693	24 002
Unwrought alloys	tonnes	9 386	5 364	5 029	7 345	5 466
Oxides	tonnes	560	310	524	412	114
Scrap	tonnes	2 166	1 265	2 164	2 988	2 713
Crude petroleum	tonnes	81 854 226	70 343 956	59 946 970	62 875 826	56 890 280
Natural gas	tonnes	79 101 617	32 440 935	41 624 014	50 897 525	(b)* 37 000 000
Phosphate rock	tonnes	374 792	130 323	305 259	264 541	312 023
Platinum metals						
Platinum	kilograms	8 471	3 633	4 516	4 010	4 606
Platinum metals	kilograms	4 404	5 348	3 006	...	23 926
Waste and scrap	kilograms	241 200	359 138	143 885	296 178	122 641
Potash						
Sulphate	tonnes	53 124	12 477	51 068	40 885	75 743
Chloride	tonnes	837 119	242 713	626 635	597 658	901 544
Other potassic fertilisers	tonnes	18 484	7 287	13 998	6 814	13 696
Rare earths						
Metals	tonnes	447	402	372	506	280
Cerium compounds	tonnes	9 116	6 112	5 687	1 867	3 940
Other rare earth compounds	tonnes	768	874	1 408	1 359	1 301
Ferro-cerium and other pyrophoric alloys	tonnes	3	26	83	388	940
Salt	tonnes	578 882	918 448	1 653 101	1 622 835	705 665
Sillimanite minerals						
Sillimanite minerals	tonnes	3 046	3 209	3 110	3 502	1 930
Mullite	tonnes	3 209	1 327	2 663	3 831	2 919

France

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Silver						
Ores and concentrates	kilograms	21 300	4 279	4 433 810	8 499	100 102
Metal	kilograms	544 821	435 001	954 773	908 080	612 382
Sulphur and pyrites						
Pyrites	tonnes	173	159	183	206	136
Sulphur	tonnes	50 092	55 212	78 366	92 106	108 471
Sulphur, sublimed and precipitated	tonnes	5 861	403	410	441	481
Talc	tonnes	76 147	72 274	59 722	48 155	47 883
Tantalum and niobium						
Tantalum	tonnes	84	43	22	39	49
Tin						
Unwrought	tonnes	6 506	5 869	5 787	5 252	4 815
Unwrought alloys	tonnes	554	207	389	283	266
Scrap	tonnes	588	259	100	61	107
Titanium						
Ilmenite	tonnes	58 423	17 766	...	...	...
Other titanium minerals	tonnes	12 531	11 964	(c) 50 893	(c) 67 259	(c) 184 385
Metal	tonnes	10 036	7 282	7 766	10 026	11 881
Oxides	tonnes	128 226	136 389	148 994	138 687	123 037
Titanium slag	tonnes	100 782	92 290	15 218	246	20 762
Tungsten						
Ores and concentrates	tonnes	353	1	2	4	14 619
Metal	tonnes	898	547	867	1 027	619
Carbide	tonnes	859	311	359	583	551
Vanadium						
Pentoxide	tonnes	674	371	574	605	429
Zinc						
Ores and concentrates	tonnes	238 502	241 976	222 580	234 060	288 110
Unwrought	tonnes	164 172	128 674	131 993	151 988	126 771
Unwrought alloys	tonnes	45 480	27 000	34 205	34 022	32 075
Scrap	tonnes	3 694	4 604	3 003	3 853	23 591
Zirconium						
Concentrates	tonnes	55 030	25 087	25 310	35 922	25 784
Metal	tonnes	456	553	326	687	436

Note(s)

(a) Including manganiferous Iron ore

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

(c) Includes Ilmenite

Germany

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	260 000 000	245 000 000	239 000 000	252 000 000	235 300 000
Crushed rock	tonnes	215 000 000	217 000 000	208 000 000	229 000 000	211 000 000
Alumina	tonnes (Al ₂ O ₃ content)	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Primary aluminium	tonnes	605 880	291 750	402 480	432 472	410 430
Barytes	tonnes	78 941	45 606	55 887	55 342	52 030
Bentonite and fuller's earth						
Bentonite	tonnes	414 336	326 461	362 623	375 332	366 220
Cadmium	tonnes	420	* 400	* 400	* 400	* 400
Cement						
Cement, clinker	tonnes	25 366 000	23 232 000	22 996 000	24 775 000	24 581 000
Cement, finished	tonnes	33 581 000	30 441 000	29 915 000	33 540 000	32 432 000
Coal						
Anthracite and bituminous	tonnes	19 143 000	14 971 000	14 110 000	12 960 000	11 560 000
Brown coal	tonnes	175 313 020	169 857 142	169 402 544	176 502 048	185 432 000
Copper, smelter	tonnes	295 000	251 000	378 700	346 200	352 400
Copper, refined	tonnes	689 763	668 945	704 300	708 800	685 700
Feldspar	tonnes	161 416	106 837	* 204 000	* 218 000	* 220 000
Fluorspar	tonnes	48 519	49 962	59 086	65 619	54 202
Graphite	tonnes	—	—	—	—	109
Gypsum (a)	tonnes	2 112 000	1 898 000	1 822 000	2 021 000	1 949 000
Indium	tonnes	* 10	* 10	* 10	* 10	* 10
Iron ore (b)(c)	tonnes	455 100	363 699	390 353	489 091	447 515
Pig iron	tonnes	29 105 000	20 104 000	28 560 000	27 943 000	27 046 000
Crude steel	tonnes	45 832 000	32 670 000	43 830 000	44 284 000	42 661 000
Ferro-alloys						
Ferro-chrome	tonnes	26 960	13 667	* 17 300	* 17 800	* 17 800
Other ferro-alloys	tonnes	* 5 000	6 336	* 9 200	* 9 000	* 9 000
Silicon metal	tonnes	29 092	27 620	30 105	30 134	28 574
Kaolin (d)	tonnes	3 622 159	4 513 753	4 578 097	4 898 516	4 398 796
Lead, refined	tonnes	415 100	390 600	405 400	429 100	423 000
Crude petroleum	tonnes	3 053 998	2 800 063	2 511 174	2 677 136	2 621 352
Natural gas	million m ³	16 547	15 554	13 666	12 952	11 784
Potash						
Potassic salts	tonnes (K ₂ O content)	3 280 467	1 825 139	3 023 941	3 214 696	3 149 386
Salt						
Rock salt	tonnes	5 545 438	7 709 844	9 992 156	8 765 168	5 938 855
Brine salt	tonnes	989 208	1 862 630	2 118 484	2 217 205	2 182 440
Salt in brine	tonnes	7 306 745	* 7 300 000	* 4 500 000	* 6 500 000	* 10 900 000
Selenium metal	tonnes	* 250	* 230	* 250	* 250	* 250
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	1 578 000	1 504 000	1 455 000	1 465 000	* 1 460 000
Recovered (f)	tonnes (sulphur content)	39 000	565 000	513 000	542 210	493 169
Uranium, mine	tonnes (metal content)	—	—	* 8	52	50
Zinc, mine	tonnes	292 284	* 153 000	165 000	170 000	169 000

Note(s)

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

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

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	29 470 321	27 973 749	25 337 558	29 162 240	25 160 776
Aluminium and bauxite						
Bauxite	tonnes	33 636	16 591	26 178	26 306	34 814
Alumina	tonnes	305 514	382 750	424 236	372 191	369 337
Alumina hydrate	tonnes	634 635	461 601	551 817	485 074	455 157
Unwrought	tonnes	75 386	67 356	111 815	83 675	42 580
Unwrought alloys	tonnes	359 628	288 023	361 396	374 917	361 850
Scrap	tonnes	702 739	753 218	823 810	947 252	968 539
Antimony						
Metal	tonnes	33	101	132	239	103
Oxide	tonnes	932	448	961	1 132	688
Arsenic						
Metallic arsenic	tonnes	41	31	57	66	128
Barytes	tonnes	38 111	45 360	(a)* 33 000	(a)* 34 000	(a)* 29 000
Bentonite and fuller's earth						
Bentonite	tonnes	67 109	52 424	84 920	91 477	82 504
Bismuth						
Metal	tonnes	276	143	178	210	195
Bromine	kilograms	14 400	6 031	6 119	7 543	8 559
Cadmium						
Metal	tonnes	287	276	523	348	379
Cement						
Cement clinkers	tonnes	1 120 078	467 042	680 552	761 406	475 987
Portland cement	tonnes	5 115 858	4 445 980	4 173 112	5 002 240	4 672 927
Other cement	tonnes	2 077 175	2 101 709	2 010 734	2 159 075	1 794 724
Chromium						
Ores and concentrates	tonnes	23 563	15 922	32 070	53 989	60 354
Metal	tonnes	5 379	4 685	4 606	2 995	6 308
Coal						
Anthracite	tonnes	16 575	179 880	222 458	165 471	166 704
Other coal	tonnes	518 629	129 955	31 492	39 712	109 026
Lignite	tonnes	425 680	523 720	696 279	789 315	1 134 350
Briquettes	tonnes	370 211	493 552	463 102	467 383	450 270
Cobalt						
Ore	tonnes	145	103	88	—	8
Oxides	tonnes	158	69	102	113	84
Metal	tonnes	1 588	1 067	1 481	1 393	1 533
Copper						
Ores and concentrates	tonnes	48 234	58 932	48 761	54 856	57 074
Matte and cement	tonnes	2	1	8 431	9	2
Unwrought	tonnes	125 162	194 104	136 110	196 627	278 957
Unwrought alloys	tonnes	16 485	9 781	13 276	12 276	14 578
Scrap	tonnes	478 643	449 990	578 448	585 346	587 935
Diamond						
Unsorted (b)	Carats	£* 1 285 000	£* 775 000	£* 863 000	£* 489 000	£* 265 000
Gem	Carats	155 988	179 213	161 687	155 370	137 301
Dust	Carats	3 410 935	2 560 000	5 355 000	12 810 000	14 735 000
Diatomite	tonnes	7 189	5 035	5 361	14 251	22 190
Feldspar	tonnes	121 777	70 130	78 610	76 300	70 936
Fluorspar	tonnes	50 338	31 157	33 487	45 955	38 029
Gold						
Metal	kilograms	* 120 000	113 039	221 003	226 243	212 936
Waste and scrap	kilograms	4 800	62 603	904 379	688 482	956 113
Graphite	tonnes	18 950	12 722	20 583	15 600	12 721
Gypsum						
Crude	tonnes	447 140	393 691	430 977	516 024	501 487
Calcined	tonnes	1 775 467	1 290 391	1 558 288	1 333 953	1 444 714
Iodine	kilograms	97 400	112 690	62 331	124 705	109 595
Iron ore						
Iron ore	tonnes	34 495	4 497	22 373	54 555	42 763
Burnt pyrites	tonnes	12 700	10 865	7 994	15 999	—

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	153 917	86 491	180 542	183 310	171 347
Sponge and powder	tonnes	95 846	28 183	56 763	43 160	35 370
Ferro-chrome	tonnes	36 856	27 831	54 956	45 048	32 760
Ferro-silico-magnesium	tonnes	6 342	1 113	1 718	2 355	2 062
Ferro-manganese	tonnes	11 802	9 043	12 387	22 690	11 811
Ferro-silico-manganese	tonnes	10 354	4 436	3 377	17 756	12 006
Ferro-molybdenum	tonnes	3 858	3 229	3 174	4 440	2 815
Ferro-nickel	tonnes	1 036	1 725	7 869	5 775	391
Ferro-niobium	tonnes	1 057	321	538	237	228
Ferro-phosphorus	tonnes	477	475	1 452	1 233	1 250
Ferro-silicon	tonnes	63 858	63 214	95 683	81 464	67 351
Ferro-titanium and ferro-silico-titanium	tonnes	4 237	1 662	4 180	5 350	4 687
Ferro-tungsten and ferro-silico-tungsten	tonnes	460	339	640	402	417
Ferro-vanadium	tonnes	413	755	659	391	226
Other ferro-alloys	tonnes	28 533	8 210	10 799	8 722	3 952
Silicon metal	tonnes	—	20 207	29 309	33 077	49 693
Ingots, blooms, billets	tonnes	2 047 223	1 655 376	2 150 091	2 150 120	1 712 813
Scrap	tonnes	8 268 662	7 275 257	9 175 802	9 859 197	9 658 280
Kaolin	tonnes	498 165	374 313	389 927	431 815	361 915
Lead						
Ores and concentrates	tonnes	—	1 000	4 296	19 697	60 356
Unwrought	tonnes	177 129	204 075	203 077	196 443	178 589
Scrap	tonnes	13 133	13 100	9 892	12 932	7 982
Lithium						
Carbonate	tonnes	2 290	1 880	2 387	2 927	2 259
Magnesite and magnesia						
Magnesite	tonnes	22	140	229	1 303	381
Magnesia	tonnes	72 684	58 604	94 198	67 605	73 154
Manganese						
Ores and concentrates	tonnes	3 321	3 710	4 480	5 035	4 387
Metal	tonnes	12 921	6 727	8 243	8 907	13 598
Mercury	kilograms	111 100	120 587	110 405	197 989	102 650
Mica	tonnes	4 713	2 888	4 197	4 479	4 474
Molybdenum						
Ores and concentrates	tonnes	3 575	2 502	5 017	3 955	3 738
Metal	tonnes	2 857	725	763	1 248	1 395
Nickel						
Mattes, sinters etc	tonnes	20 202	8 687	13 981	15 998	19 412
Ores and concentrates	tonnes	316	1 619	2 673	299	778
Unwrought	tonnes	5 200	2 617	3 751	4 184	4 808
Unwrought alloys	tonnes	8 988	3 083	1 866	4 423	5 036
Scrap	tonnes	5 646	8 227	9 563	8 600	7 727
Crude petroleum	tonnes	40 011	265 799	180 515	283 784	138 712
Natural gas (a)	tonnes	* 19 648 000	* 11 354 000	* 14 165 000	* 13 906 000	* 5 620 000
Phosphate rock	tonnes	314	137	489	1 641	1 742
Platinum metals						
Platinum	kilograms	27 700	36 204	24 597	24 994	23 627
Palladium	kilograms	28 600	43 329	35 462	43 952	43 524
Other Platinum metals	kilograms	24 700	65 029	33 299	28 158	21 018
Waste and scrap	kilograms	3 238 800	3 352 271	5 997 852	6 960 588	6 047 948
Potash						
Potassic fertilisers (c)(d)	tonnes	3 280 467	1 825 139	3 023 941	3 214 696	3 149 386
Rare earths						
Metals	tonnes	3	19	25	29	10
Rare earth compounds	tonnes	188	652	601	660	699
Salt	tonnes	2 782 861	2 744 985	3 097 654	2 735 634	2 207 276
Sillimanite minerals	tonnes	18 231	7 965	13 379	18 818	17 287
Silver						
Metal	kilograms	3 012 400	2 169 994	3 397 674	3 368 313	2 984 504
Sulphur and pyrites						
Pyrites	tonnes	485	320	755	440	342
Sulphur	tonnes	654 808	681 563	671 836	721 717	525 622
Sulphur, sublimed and precipitated	tonnes	350	78	271	1 380	274
Talc	tonnes	6 382	3 662	4 773	6 243	5 274
Tantalum and niobium						
Tantalum	tonnes	299	8	18	38	33

Germany

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Tin						
Concentrates	tonnes	—	163	32	...	—
Unwrought	tonnes	1 612	1 000	1 253	1 348	1 223
Unwrought alloys	tonnes	1 530	1 088	956	1 459	1 352
Scrap	tonnes	1 649	1 129	1 440	1 175	1 141
Titanium						
Titanium minerals	tonnes	3 322	6 864	22 384	18 932	13 648
Metal	tonnes	8 278	5 367	9 351	13 954	12 561
Oxides	tonnes	367 545	351 872	391 981	345 661	331 757
Tungsten						
Ores and concentrates	tonnes	206	196	164	976	524
Metal	tonnes	4 687	2 655	3 119	3 064	3 618
Vanadium						
Pentoxide	tonnes	1 173	...	...	...	...
Zinc						
Ores and concentrates	tonnes	1 835	888	1 674	73 980	39 533
Unwrought	tonnes	70 724	63 165	52 483	55 518	59 913
Unwrought alloys	tonnes	28 835	24 163	31 857	31 170	29 775
Scrap	tonnes	51 801	68 648	74 208	75 168	73 200
Zirconium						
Concentrates (a)	tonnes	* 12 000	* 7 300	* 10 800	* 10 800	* 7 500
Metal	tonnes	625	386	384	792	735

Note(s)

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

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

(c) K₂O content

(d) Including sulphate, chloride and other potassic fertilisers

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	13 369 162	12 866 444	11 936 108	13 786 596	11 636 491
Aluminium and bauxite						
Bauxite	tonnes	2 995 241	2 069 109	2 005 053	2 436 413	2 777 032
Alumina	tonnes	1 017 746	518 456	661 379	654 946	476 257
Alumina hydrate	tonnes	241 736	168 216	260 488	176 692	196 301
Unwrought	tonnes	693 075	495 511	799 780	768 797	732 599
Unwrought alloys	tonnes	1 370 179	1 157 271	1 591 991	1 810 035	1 750 733
Scrap	tonnes	543 839	362 582	479 413	535 304	575 925
Antimony						
Metal	tonnes	700	552	494	456	376
Oxide	tonnes	8 672	5 072	7 986	6 949	6 013
Arsenic						
Metallic arsenic	tonnes	...	...	69	9	43
Asbestos						
Unmanufactured	tonnes	54	36	72	88	554
Barytes	tonnes	278 335	129 220	263 839	291 716	237 254
Bentonite and fuller's earth						
Bentonite	tonnes	361 782	335 990	386 261	447 793	450 850
Bismuth						
Metal	tonnes	1 262	881	1 052	1 282	1 155
Bromine	kilograms	646 400	456 893	657 303	722 036	783 214
Cadmium						
Metal	tonnes	53	11	18	40	69
Oxide	tonnes	507	522	625	489	653
Cement						
Cement clinkers	tonnes	14 184	9 200	18 037	52 111	82 345
Portland cement	tonnes	770 566	904 023	939 310	1 054 856	1 023 170
Other cement	tonnes	293 583	272 741	255 027	217 931	218 486
Chromium						
Ores and concentrates	tonnes	175 277	45 684	101 972	180 377	188 783
Metal	tonnes	7 022	3 328	4 783	5 931	6 887

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Coal						
Anthracite	tonnes	4 137 690	3 893 429	3 643 048	2 535 881	1 399 126
Other coal	tonnes	37 215 220	30 926 568	34 850 251	40 187 648	41 993 809
Lignite	tonnes	39 248	37 839	24 400	41 768	21 509
Briquettes	tonnes	70 400	132 895	404 681	291 675	138 019
Cobalt						
Ore	tonnes	15	42	115	170	128
Metal	tonnes	2 921	2 017	3 864	4 946	4 505
Oxides	tonnes	1 057	902	1 069	900	878
Copper						
Ores and concentrates	tonnes	1 088 291	1 252 430	1 128 472	1 124 525	1 215 273
Matte and cement	tonnes	10 102	4 133	12 739	2 742	2 415
Unwrought, unrefined	tonnes	24 706	46 840	23 331	68 147	45 707
Unwrought, refined	tonnes	833 354	658 703	743 934	737 763	702 577
Unwrought alloys	tonnes	40 073	38 538	36 249	35 493	37 491
Scrap	tonnes	563 560	454 753	626 442	647 084	655 895
Diamond						
Gem	Carats	709 636	301 075	377 399	366 385	311 770
Industrial	Carats	505 400	211 630	122 838	143 922	158 572
Dust	Carats	45 914 930	25 210 000	64 065 000	89 060 000	94 415 000
Diatomite	tonnes	49 237	38 258	43 487	39 892	42 122
Feldspar	tonnes	143 758	130 081	139 663	153 713	109 157
Fluorspar	tonnes	357 914	187 330	261 999	380 027	280 867
Gold						
Metal	kilograms	118 516	164 511	192 815	162 289	133 260
Waste and scrap	kilograms	1 390 000	1 126 326	1 396 280	2 680 174	2 568 174
Graphite	tonnes	62 180	33 293	56 333	57 411	43 349
Gypsum						
Crude	tonnes	54 216	28 315	29 132	26 182	21 712
Calcined	tonnes	76 992	75 319	82 341	80 574	98 665
Iodine	kilograms	1 150 600	1 168 886	1 422 575	1 576 165	1 700 953
Iron ore						
Iron ore	tonnes	44 339 072	28 812 134	43 082 309	41 678 285	38 908 327
Burnt pyrites	tonnes	—	7 087	3 077	4 513	28 207
Iron, steel and ferro-alloys						
Pig iron	tonnes	713 470	402 132	421 287	589 302	614 096
Sponge and powder	tonnes	90 069	294 393	500 970	326 097	210 328
Ferro-chrome	tonnes	544 619	305 008	454 005	447 242	392 515
Ferro-silico-chrome	tonnes	12 886	8 648	29 047	18 334	8 573
Ferro-silico-magnesium	tonnes	11 536	5 914	2 972	6 208	4 528
Ferro-manganese	tonnes	209 083	122 063	203 200	232 613	192 817
Ferro-silico-manganese	tonnes	156 484	111 008	185 067	208 913	206 967
Ferro-molybdenum	tonnes	17 434	12 484	16 375	18 760	16 934
Ferro-nickel	tonnes	177 851	127 087	192 394	155 881	139 658
Ferro-niobium	tonnes	6 269	4 047	5 923	6 579	6 297
Ferro-phosphorus	tonnes	4 801	1 332	6 067	5 137	5 587
Ferro-silicon	tonnes	215 374	146 127	272 466	298 352	248 310
Ferro-titanium and ferro-silico-titanium	tonnes	13 824	5 461	8 754	9 818	9 912
Ferro-tungsten and ferro-silico-tungsten	tonnes	2 182	1 366	787	977	1 010
Ferro-vanadium	tonnes	5 333	3 421	5 034	5 305	5 096
Other ferro-alloys	tonnes	12 109	6 325	11 783	15 982	21 651
Silicon metal	tonnes	225 185	183 516	255 977	241 565	232 640
Ingots, blooms, billets	tonnes	2 970 042	1 171 865	1 611 091	2 401 066	1 768 289
Scrap	tonnes	5 675 167	3 865 110	5 305 194	6 658 407	5 737 878
Kaolin	tonnes	647 278	585 675	715 770	705 107	625 826
Lead						
Ores and concentrates	tonnes	212 602	234 102	184 018	205 464	228 444
Unwrought	tonnes	118 779	103 642	157 301	157 653	148 576
Scrap	tonnes	28 231	40 547	39 653	35 823	28 058
Lithium						
Oxides	tonnes	5 420	(a)* 3 000	(a)* 1 800	(a)* 1 700	(a)* 1 300
Carbonate	tonnes	7 098	4 433	6 486	5 735	6 064
Magnesite and magnesite						
Magnesite	tonnes	8 420	6 731	12 751	5 625	5 285
Magnesia	tonnes	562 618	276 674	473 545	515 139	496 202

Germany

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Manganese						
Ores and concentrates (b)	tonnes	14 916	14 645	17 346	19 137	18 532
Metal	tonnes	47 581	33 989	43 346	40 705	35 671
Mercury	kilograms	19 700	28 678	104 241	134 666	52 469
Mica						
Unmanufactured	tonnes	386	221	1 330	10 527	8 934
Ground	tonnes	33 175	25 682	29 716	26 405	24 116
Waste	tonnes	966	316	428	20	—
Molybdenum						
Ores and concentrates	tonnes	9 645	6 953	9 134	9 500	7 158
Metal	tonnes	4 132	1 726	3 038	3 761	4 016
Oxides	tonnes	1 905	1 661	2 890	2 699	2 385
Nickel						
Ores and concentrates	tonnes	1 310	1 087	1 667	1 184	8 185
Mattes, sinters etc	tonnes	797	561	849	2 048	1 869
Unwrought	tonnes	68 767	42 201	69 282	68 023	73 360
Unwrought alloys	tonnes	6 102	3 839	8 023	11 778	23 191
Oxides	tonnes	617	463	621	476	608
Scrap	tonnes	18 316	8 259	8 584	11 924	14 191
Crude petroleum	tonnes	105 835 665	97 648 203	91 239 711	87 338 296	92 277 990
Natural gas	tonnes	78 201 702	78 990 573	82 784 241	87 762 701	92 961 372
Phosphate rock	tonnes	145 905	28 863	120 580	117 971	133 355
Platinum metals						
Platinum	kilograms	47 100	42 452	40 983	38 019	32 874
Palladium	kilograms	55 100	47 092	53 479	50 926	47 449
Other Platinum metals	kilograms	6 400	12 120	19 655	21 319	18 444
Waste and scrap	kilograms	10 983 600	6 224 314	8 069 744	7 290 427	8 020 283
Potash						
Sulphate	tonnes	11 801	13 194	20 786	22 490	21 559
Chloride	tonnes	124 643	75 154	131 645	131 244	146 673
Other potassic fertilisers	tonnes	2 503	633	8 065	11 726	7 729
Rare earths						
Metals	tonnes	430	106	459	263	290
Cerium compounds	tonnes	673	448	1 006	844	553
Other rare earth compounds	tonnes	10 192	7 755	9 999	6 904	4 155
Ferro-cerium and other pyrophoric alloys	tonnes	6	2	6	14	11
Salt	tonnes	2 319 273	1 867 023	2 654 736	3 477 233	2 277 714
Sillimanite minerals						
Sillimanite minerals	tonnes	56 555	27 232	47 738	48 748	54 045
Mullite	tonnes	23 113	12 279	47 775	72 049	51 709
Silver						
Ores and concentrates	kilograms	6 024 500	2 581 290	4 002 438	3 493 141	5 279 656
Metal	kilograms	2 668 900	1 784 960	2 322 566	2 434 577	1 858 257
Sulphur and pyrites						
Pyrites	tonnes	109 955	52 641	76 101	82 530	74 726
Sulphur	tonnes	53 602	38 246	44 103	51 714	34 102
Sulphur, sublimed and precipitated	tonnes	2 964	2 856	1 649	4 363	4 637
Talc	tonnes	338 606	293 417	324 703	330 321	293 175
Tantalum and niobium						
Tantalum	tonnes	188	67	231	376	221
Tin						
Unwrought	tonnes	22 160	14 193	18 684	21 396	18 865
Unwrought alloys	tonnes	179	175	316	112	196
Scrap	tonnes	2 243	674	714	1 578	461
Titanium						
Ilmenite	tonnes	446 154	304 471	...	...	...
Other titanium minerals	tonnes	279 407	212 735	(c) 838 768	(c) 794 043	(c) 648 030
Metal	tonnes	19 449	11 649	12 919	20 233	17 015
Oxides	tonnes	281 009	240 120	309 500	329 073	264 304
Titanium slag	tonnes	76 107	42 042	164	2 499	...
Tungsten						
Ores and concentrates	tonnes	967	821	1 029	843	381
Metal	tonnes	5 184	3 313	7 168	8 094	6 946
Carbide	tonnes	2 526	1 333	2 544	3 105	2 478
Vanadium						
Ores and concentrates	tonnes	60	...	...	...	...
Pentoxide	tonnes	879	(d)* 400	(d)* 1 000	(d)* 700	(d)* 1 300

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Zinc						
Ores and concentrates	tonnes	383 789	271 554	285 331	344 106	324 954
Unwrought	tonnes	305 075	285 965	380 807	398 086	365 788
Unwrought alloys	tonnes	89 738	36 350	57 563	69 972	64 642
Scrap	tonnes	17 395	16 782	23 694	25 853	25 536
Zirconium						
Concentrates (a)	tonnes	* 27 047	* 24 985	* 26 967	* 29 153	* 20 059
Metal	tonnes	791	664	798	676	956

Note(s)

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

(b) Including manganiferous Iron ore

(c) Includes ilmenite

Greece

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	* 85 000 000	* 65 000 000	* 41 000 000	* 33 000 000	* 25 000 000
Bauxite	tonnes	2 174 000	1 935 000	1 902 000	2 324 000	1 816 000
Alumina	tonnes (Al ₂ O ₃ content)	524 875	517 400	510 250	526 305	509 600
Primary aluminium	tonnes	162 339	134 737	137 000	165 150	165 000
Bentonite and fuller's earth						
Bentonite	tonnes	1 580 000	1 500 000	844 804	1 250 000	1 300 000
Cement						
Cement, clinker	tonnes	11 361 397	8 649 322	7 446 775	4 569 167	* 4 500 000
Cement, finished	tonnes	14 013 312	11 160 205	8 778 949	5 822 967	4 894 332
Coal						
Lignite	tonnes	64 521 000	61 800 000	53 600 000	58 400 000	62 368 000
Feldspar	tonnes	62 000	55 737	23 050	10 200	—
Gypsum (a)	tonnes	1 000 000	730 000	* 600 000	587 000	746 000
Crude steel	tonnes	2 477 000	2 000 000	1 821 000	1 934 000	1 247 000
Ferro-alloys						
Ferro-nickel	tonnes	83 200	42 400	69 600	94 000	96 435
Kaolin	tonnes	4 360	—	3 493	7 250	5 583
Lead, mine	tonnes (metal content)	14 000	10 000	12 200	13 400	13 300
Lead, refined	tonnes	* 11 000	* 11 000	* 11 000	* 11 000	* 6 000
Magnesite	tonnes	361 165	380 834	396 497	393 880	349 998
Nickel, mined	tonnes (metal content)	18 600	9 600	16 100	21 700	21 600
Nickel, smelter/refinery	tonnes	16 640	8 269	13 960	18 530	18 630
Perlite	tonnes	1 000 000	862 935	760 000	720 000	680 000
Crude petroleum	tonnes	66 000	87 000	86 000	87 126	83 143
Natural gas	million m ³	14	11	7	6	6
Salt	tonnes	* 220 000	* 189 000	* 190 000	* 190 000	* 190 000
Silver	kilograms (metal content)	33 500	27 500	29 000	* 29 000	* 31 000
Talc	tonnes	* 200	* 200	* 200	* 200	* 200
Zinc, mine	tonnes (metal content)	24 200	17 800	18 400	21 200	20 800

Note(s)

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

(a) Including anhydrite

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	50 453	59 216	60 851	76 495	118 173
Aluminium and bauxite						
Bauxite	tonnes	787 160	409 508	436 513	519 999	437 305
Alumina	tonnes	412 385	412 888	224 607	202 986	320 795
Alumina hydrate	tonnes	29 552	74 996	99 574	102 136	110 605
Unwrought	tonnes	26 083	17 533	20 727	19 668	5 925
Unwrought alloys	tonnes	64 998	57 668	68 924	103 326	102 092
Scrap	tonnes	13 261	14 681	32 250	27 738	20 367
Antimony						
Metal	tonnes	81	—	...	44	43
Bentonite and fuller's earth						
Bentonite	tonnes	8 885	5 116	13 203	33 306	14 233
Cement						
Cement clinkers	tonnes	722 151	851 946	722 142	459 716	1 877 641
Portland cement	tonnes	2 842 584	3 051 954	3 122 615	1 548 482	2 398 675
Other cement	tonnes	205 640	297 036	47 435	155 000	604
Coal						
Anthracite	tonnes	3 223	3 274	2 073	2 175	1 424
Other coal	tonnes	5 203	1 525	1 499	6 478	8 849
Lignite	tonnes	—	—	—	10 242	18 262
Briquettes	tonnes	25	—	113	—	8 502

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Copper						
Unwrought, refined	tonnes	356	2 748	825	4 456	981
Unwrought alloys	tonnes	1 198	1 071	2 097	4 346	969
Scrap	tonnes	12 314	15 742	21 994	18 672	28 705
Diamond						
Unsorted	Carats	£29 000	£206 000	£43 000	£99 000	£213 000
Gem	Carats	£501 000	£1 356 000	£1 956 000	£405 000	£270 000
Industrial	Carats	£105 000	£31 000	£49 000	£20 000	£24 000
Feldspar	tonnes	5 806	718	1 119	1 562	1 279
Gold						
Metal	kilograms	495	581	48	2 455	1 426
Waste and scrap	kilograms	...	...	...	12 300	9 300
Gypsum						
Crude	tonnes	21 258	49 037	38 459	95 699	142 598
Calcined	tonnes	937	580	337	621	3 750
Iron, steel and ferro-alloys						
Pig iron	tonnes	67	351	2 009	2 650	2
Ferro-alloys	tonnes	3 671	377	999	294	11 299
Ingots, blooms, billets	tonnes	162 819	102 721	143 318	139 537	64 523
Scrap	tonnes	36 018	34 840	66 989	59 592	57 511
Lead						
Unwrought	tonnes	5 792	2 360	5 209	3 068	11 313
Scrap	tonnes	1 390	913	1 945	735	1 516
Magnesite and magnesite						
Magnesite	tonnes	1	—	...	8 766	4 012
Magnesia	tonnes	126 496	84 399	108 020	110 276	87 550
Nickel						
Ores and concentrates	tonnes	231	144 529	20 284	120	86
Natural gas	tonnes	...	...	...	2 871	6 027
Platinum metals						
Platinum and platinum metals	kilograms	200	300	200	...	800
Waste and scrap	kilograms	3 400	...	—	...	6 300
Potash						
Potassic fertilisers	tonnes	1 648	1 369	1 294	431	336
Salt	tonnes	48 908	47 406	59 655	65 014	41 292
Silver						
Metal	kilograms	7 400	79 400	19 700	13 900	14 100
Sulphur and pyrites						
Pyrites	tonnes	63 893	24 429	28 680	42	3 776
Sulphur	tonnes	16 345	4 044	4 594	35 279	167 611
Talc	tonnes	3 926	3 898	2 809	4 086	9 312
Titanium						
Oxides	tonnes	598	462	773	731	744
Zinc						
Ores and concentrates	tonnes	43 003	21 311	14 660	36 016	51 007

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	425 485	177 887	13 538	16 892	4 102
Aluminium and bauxite						
Bauxite	tonnes	226 374	351 677	314 423	288 647	90 804
Alumina	tonnes	38 828	963	1 546	1 346	1 822
Unwrought	tonnes	129 407	110 311	153 771	126 051	119 587
Unwrought alloys	tonnes	63 670	32 252	66 134	59 931	51 875
Scrap	tonnes	28 960	17 339	43 866	95 166	54 011
Antimony						
Metal	tonnes	63	85	74	84	47
Arsenic						
Metallic arsenic	tonnes	9	11	33	9	3
Barytes	tonnes	1 348	2 133	1 318	2 277	1 222
Bentonite and fuller's earth						
Bentonite	tonnes	21 261	8 593	3 668	7 193	5 831
Bismuth						
Metal	tonnes	3	0	0	12	21
Cadmium						
Metal	tonnes	18	39	1	0	—
Cement						
Cement clinkers	tonnes	23 558	4 249	12 100	34 712	65 317
Portland cement	tonnes	74 239	136 300	206 164	159 514	49 204
Other cement	tonnes	2 618	2 359	15 136	22 371	22 214
Coal						
Anthracite	tonnes	41 475	37 585	48 783	117 406	21 961
Other coal	tonnes	371 479	168 663	512 663	169 990	117 867
Lignite	tonnes	35 457	58 053	87 707	165 417	206 384
Briquettes	tonnes	111	5 827	62	12 986	53 028
Cobalt						
Metal	tonnes	123	14	3	17	64
Copper						
Unwrought	tonnes	79 928	57 367	63 443	53 615	53 416
Unwrought alloys	tonnes	9 393	305	241	643	664
Scrap	tonnes	18 628	11 245	20 017	29 253	43 607
Diamond						
Unsorted	Carats	118 725 000	2 375 000	910 000	470 000	135 000
Gem, rough	Carats	425 000	3 365 000	920 000	...	15 000
Gem, cut	Carats	2 815 000	6 370 000	8 365 000	2 615 000	5 390 000
Industrial	Carats	22 810 000	43 195 000	4 375 000	3 680 000	2 150 000
Dust (a)	Carats	* 4 371 000	* 1 813 000	* 214 000	* 77 000	* 90 000
Diatomite	tonnes	790	482	668	623	647
Feldspar	tonnes	2 830	5 851	12 195	9 469	20
Fluorspar	tonnes	2 281	1 954	2 652	3 073	2 104
Gold						
Metal	kilograms	114 976	23 739	21 029	9 111	346
Graphite	tonnes	142	918	219	92	68
Gypsum						
Crude and calcined	tonnes	3 093	2 097	1 759	1 400	3 714
Iodine	kilograms	600	800	1 300	200	300
Iron, steel and ferro-alloys						
Pig iron	tonnes	9 185	9 107	4 427	9 127	470
Sponge and powder	tonnes	7 709	9 685	5 772	3 302	429
Ferro-chrome	tonnes	1 146	916	693	1 217	1 304
Ferro-manganese	tonnes	1 753	1 216	837	271	203
Ferro-silico-manganese	tonnes	24 943	8 023	18 515	12 695	10 971
Ferro-silicon	tonnes	8 170	4 569	4 888	4 361	2 924
Other ferro-alloys	tonnes	504	170	849	167	156
Silicon metal	tonnes	2 312	906	1 426	1 746	1 212
Ingots, blooms, billets	tonnes	171 231	159 350	28 092	71 878	17 546
Scrap	tonnes	1 485 316	1 159 166	1 008 235	935 510	413 394
Kaolin	tonnes	62 415	49 509	31 132	14 336	7 454
Lead						
Unwrought	tonnes	6 875	10 644	11 149	16 980	17 028
Scrap	tonnes	2 800	1 753	1 692	2 136	2 183
Magnesite and magnesia						
Magnesite	tonnes	44 397	19 803	3 603	14 704	14 475
Magnesia	tonnes	7 328	1 729	2 198	7 506	1 442

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Manganese						
Ores and concentrates	tonnes	51 425	31 776	22 888	51 374	26 294
Mercury	kilograms	2 628	668	211	1 200	7 500
Mica	tonnes	218	317	169	175	155
Molybdenum						
Metal	tonnes	60	58	45	50	49
Crude petroleum	tonnes	6 422 841	2 437 424	19 064 118	13 010 825	20 102 882
Natural gas	tonnes	4 186 746	3 086 243	3 520 510	4 233 660	3 927 266
Phosphate rock	tonnes	251 845	192 135	252 644	220 591	140 205
Platinum metals						
Platinum and platinum metals	kilograms	300	100	500	1 400	900
Potash						
Sulphate	tonnes	36 642	14 325	39 155	26 686	26 621
Chloride	tonnes	28 144	20 773	35 176	27 276	19 735
Other potassic fertilisers	tonnes	8 660	107	3 240	8 166	2 947
Rare earths						
Metals	tonnes	20	68	...	...	—
Rare earth compounds	tonnes	1	—	3	4	11
Ferro-cerium and other pyrophoric alloys	tonnes	0	0	65	62	169
Salt	tonnes	134 557	149 094	144 367	173 050	154 435
Sillimanite minerals	tonnes	2 662	505	44	220	94
Silver						
Metal	kilograms	276 100	31 300	29 900	55 100	51 900
Sulphur and pyrites						
Pyrites	tonnes	40 754	3	1	0	46
Sulphur	tonnes	42 733	26 673	42 673	80 976	31 788
Talc	tonnes	12 372	7 862	8 869	8 663	13 779
Tin						
Unwrought (b)	tonnes	265	80	160	211	70
Titanium						
Titanium minerals	tonnes	399	351	504	396	220
Metal	tonnes	14	11	74	74	47
Oxides	tonnes	23 260	19 289	19 003	19 447	12 378
Vanadium						
Ores and concentrates	tonnes	...	80	...	...	...
Zinc						
Unwrought (b)	tonnes	28 996	25 422	22 534	11 358	11 341

Note(s)

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

(b) Including alloys

Hungary

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	36 647 400	35 591 131	25 059 000	23 361 598	* 23 000 000
Crushed rock	tonnes	17 030 760	15 808 088	11 390 100	9 128 819	* 9 000 000
Bauxite	tonnes	511 337	317 000	365 000	277 800	255 000
Alumina	tonnes (Al ₂ O ₃ content)	* 299 000	* 185 000	* 214 000	* 250 000	* 170 000
Bentonite and fuller's earth						
Bentonite	tonnes	6 220	5 298	17 200	22 931	* 22 000
Cement						
Cement, clinker	tonnes	* 2 500 000	* 2 200 000	* 1 500 000	1 167 942	1 332 354
Cement, finished	tonnes	3 544 000	* 3 200 000	* 2 560 000	* 2 200 000	* 2 300 000
Coal						
Lignite	tonnes	8 041 168	8 026 587	8 202 859	8 800 783	8 438 000
Brown coal	tonnes	1 386 140	944 139	813 403	699 129	875 944
Diatomite	tonnes	—	1 277	1 197	1 309	* 1 300
Gypsum (a)	tonnes	15 940	19 766	20 000	3 000	—
Pig iron	tonnes	1 288 758	1 050 000	1 325 000	1 315 000	1 229 000
Crude steel	tonnes	2 097 000	1 403 000	1 678 000	1 733 000	1 543 000
Manganese ore	tonnes	49 579	43 000	55 000	58 000	* 51 000
Perlite	tonnes	132 000	82 058	70 990	70 900	* 70 000
Crude petroleum	tonnes	811 000	796 000	735 900	657 000	700 931
Natural gas	million m ³	2 703	2 748	2 600	2 315	2 205

Note(s)

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

(a) Including anhydrite

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 382 695	1 294 700	1 191 521	1 137 425	1 003 456
Aluminium and bauxite						
Alumina	tonnes	168 347	89 857	112 819	107 937	99 699
Alumina hydrate	tonnes	102 652	88 515	92 011	71 834	64 000
Unwrought (a)	tonnes	10 981	26 176	41 719	38 819	36 491
Scrap	tonnes	22 098	35 060	51 508	66 599	68 156
Bentonite and fuller's earth						
Bentonite	tonnes	1 191	555	954	782	1 047
Cement						
Cement clinkers	tonnes	—	1 701	296	25	203 686
Portland cement	tonnes	329 647	220 069	185 279	277 497	269 382
Other cement	tonnes	25 169	2 987	795	6 451	1 363
Coal						
Anthracite	tonnes	402	...	9 151	5 077	210
Lignite	tonnes	89 444	41 329	3 390	4 886	4 539
Copper						
Unwrought, refined	tonnes	...	...	24	786	5 867
Unwrought alloys	tonnes	989	314	571	1 120	476
Scrap	tonnes	20 958	19 120	15 319	31 459	37 048
Diamond						
Unsorted	Carats	...	...	4 000 000	5 500 000	3 500 000
Dust	Carats	...	...	...	...	14 500 000
Gold						
Metal	kilograms	657	1 312	1 827	2 214	1 300
Waste and scrap	kilograms	...	...	2 221 600	2 665 300	2 115 900
Gypsum						
Crude and calcined	tonnes	19 259	22 019	17 367	44 845	59 059
Iodine	kilograms	...	...	...	...	92 300

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron ore	tonnes	...	—	52 400	64 435	63 373
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	47	...	104	207	272
Silicon metal	tonnes	...	...	...	4 317	2 887
Ingots, blooms, billets	tonnes	90 282	4 315	9 274	44 796	7 260
Scrap	tonnes	691 805	636 805	1 132 142	1 272 473	1 171 610
Kaolin	tonnes	3 110	2 847	2 436	3 272	2 861
Lead						
Scrap	tonnes	4 052	4 001	1 898	2 428	1 615
Magnesite and magnesite						
Magnesia	tonnes	...	—	...	317	309
Mercury	kilograms	...	...	6 400	10 700	6 500
Nickel						
Scrap	tonnes	81	203	170	126	126
Natural gas	tonnes	—	323 537	—	—	417 151
Platinum metals						
Waste and scrap	kilograms	...	...	92 300	91 200	149 100
Potash						
Potassic fertilisers	tonnes	7 891	9 916	5 697	5 805	7 664
Salt	tonnes	1 388	3 434	1 356	39 405	14 663
Sillimanite minerals						
Mullite	tonnes	(b)* 7 200	(b)* 4 300	7 505	8 180	6 335
Silver						
Metal	kilograms	139	1 300	3 300	29 200	4 000
Sulphur and pyrites						
Sulphur	tonnes	43 649	39 638	44 098	48 616	43 855
Tin						
Unwrought (a)	tonnes	140	82	44	43	41
Scrap	tonnes	246	222	196	222	268
Titanium						
Metal	tonnes	23	11	55	37	68
Oxides	tonnes	1 402	1 120	1 942	1 484	1 298
Tungsten						
Metal	tonnes	39	36	54	53	99
Zinc						
Scrap	tonnes	1 902	2 978	2 821	2 314	1 897

Note(s)

(a) Including alloys

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	806 281	446 187	473 730	369 445	515 141
Aluminium and bauxite						
Bauxite	tonnes	297 832	178 031	244 095	254 039	142 246
Alumina	tonnes	8 997	9 246	22 660	36 305	42 371
Alumina hydrate	tonnes	508	3 352	6 856	9 123	7 382
Unwrought	tonnes	122 319	100 897	146 221	135 392	129 030
Unwrought alloys	tonnes	107 123	79 437	165 833	190 175	181 695
Scrap	tonnes	56 347	30 212	43 720	59 661	47 904
Antimony						
Oxide	tonnes	144	173	156	148	173
Barytes	tonnes	492	4 536	1 441	2 852	516
Bentonite and fuller's earth						
Bentonite	tonnes	3 095	3 608	4 360	4 648	6 527
Bismuth						
Metal	tonnes	13	84	106	50	43
Bromine	kilograms	9 900	10 500	4 500	8 800	5 600

Hungary

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Cement						
Cement clinkers	tonnes	...	117 232	69 469	67 770	43 196
Portland cement	tonnes	643 776	565 552	495 045	785 166	710 516
Other cement	tonnes	55 798	49 051	34 191	33 802	6 809
Coal						
Hard coal	tonnes	1 893 076	(a) 1 340 769	(a) 1 744 778	(a) 1 570 645	(a) 1 556 689
Lignite	tonnes	767 480	413 094	297 335	318 792	224 685
Briquettes	tonnes	16 093	17 519	14 352	11 018	21 885
Copper						
Unwrought	tonnes	3 016	2 168	3 637	4 819	11 217
Scrap	tonnes	5 933	10 091	4 038	5 416	4 831
Diamond						
Gem, cut	Carats	£220 000	£167 000	£280 000	£657 000	£421 000
Industrial	Carats	(b)£* 294 000	£171 000	£168 000	£675 000	£346 000
Dust	Carats	(b)* 4 550 000	(b)* 5 450 000	(b)* 8 910 000	(b)* 12 690 000	14 500 000
Diatomite	tonnes	1 110	796	957	1 189	885
Feldspar	tonnes	10 418	14 499	14 235	14 211	13 905
Fluorspar	tonnes	4 512	(b)* 1 500	2 662	4 152	3 014
Gold						
Metal	kilograms	...	1 076	396	1 512	* 1 500
Gypsum						
Crude	tonnes	6 713	3 248	5 362	5 198	5 241
Calcined	tonnes	49 220	43 128	12 413	18 039	24 138
Iodine	kilograms	7 900	2 100	2 700	6 100	4 000
Iron ore	tonnes	616 684	876 109	1 985 510	1 780 865	(c) 1 632 969
Iron, steel and ferro-alloys						
Pig iron	tonnes	12 951	3 403	7 158	5 662	5 527
Sponge and powder	tonnes	1 043	425	756	638	479
Ferro-chrome	tonnes	232	150	187	223	279
Ferro-manganese	tonnes	4 318	2 037	12 015	16 011	12 255
Ferro-silico-manganese	tonnes	4 661	922	724	1 785	225
Ferro-molybdenum	tonnes	183	73	85	105	108
Ferro-niobium	tonnes	135	...	75	141	111
Ferro-phosphorus	tonnes	...	...	652	60	111
Ferro-silicon	tonnes	5 232	3 100	3 630	3 999	2 969
Other ferro-alloys	tonnes	12 843	15 557	569	312	410
Silicon metal	tonnes	2 184	2 589	4 010	7 832	5 619
Ingots, blooms, billets	tonnes	273 585	104 855	30 505	240 299	565 955
Scrap	tonnes	146 494	34 357	56 974	68 566	34 219
Kaolin	tonnes	29 089	25 094	24 175	29 736	23 099
Lead						
Unwrought	tonnes	2 711	2 663	6 138	9 497	11 372
Magnesite and magnesite						
Magnesite	tonnes	1 751	1 081	1 331	1 499	1 124
Magnesia	tonnes	7 892	1 563	6 783	4 369	4 739
Manganese						
Ores and concentrates	tonnes	293	220	198	159	142
Metal	tonnes	1 185	280	336	461	500
Mercury	kilograms	4 293	4 800	5 000	8 400	6 100
Molybdenum						
Metal	tonnes	102	69	70	60	51
Nickel						
Unwrought (d)	tonnes	69	219	346	35	47
Crude petroleum	tonnes	(b)* 6 959 000	(b)* 6 241 000	5 310 899	5 935 772	5 489 453
Natural gas	tonnes	8 574 143	6 238 749	5 858 735	5 788 348	5 509 482
Phosphate rock	tonnes	41	37	45	1 028	312
Platinum metals						
Platinum and platinum metals	kilograms	453	26	1 300	84	—
Potash						
Chloride	tonnes	181 373	38 441	90 063	98 351	106 292
Other potassic fertilisers	tonnes	4 552	4 372	5 760	6 161	5 449
Rare earths						
Cerium compounds	tonnes	55	36	38	33	31
Other rare earth compounds	tonnes	62	26	31	23	31
Salt	tonnes	510 287	535 928	704 143	800 950	540 297

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Sillimanite minerals						
Sillimanite minerals	tonnes	2 812	1 892	2 100	2 903	3 039
Mullite	tonnes	1 192	649	1 348	1 854	1 352
Silver						
Metal	kilograms	8 354	128 985	196 500	234 100	229 700
Sulphur and pyrites						
Sulphur	tonnes	2 105	(b)* 1 200	3 189	1 100	981
Sulphur, sublimed and precipitated	tonnes	586	186	119	223	172
Talc	tonnes	8 875	7 566	6 786	6 226	5 319
Tantalum and niobium						
Tantalum	tonnes	...	0	32	0	—
Tin						
Unwrought (d)	tonnes	320	208	231	156	205
Titanium						
Titanium minerals	tonnes	2 659	(b)* 1 200	2 677	2 410	3 038
Metal	tonnes	31	216	84	134	116
Oxides	tonnes	8 590	6 853	8 927	8 885	7 325
Tungsten						
Metal	tonnes	54	31	54	67	56
Zinc						
Unwrought (d)	tonnes	17 011	9 862	11 767	12 818	12 856
Zirconium						
Concentrates	tonnes	2 439	1 265	2 455	1 765	1 965

Note(s)

(a) Including anthracite

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

(c) Including burnt pyrites

(d) Including alloys

Iceland

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aluminium	tonnes	761 204	804 605	825 803	780 853	802 827
Ferro-alloys						
Ferro-silicon	tonnes	107 882	112 992	114 230	120 076	131 818

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	41 024	29 712	44 512	85 854	92 094
Aluminium and bauxite						
Unwrought	tonnes	760 764	805 450	812 981	765 999	787 071
Scrap	tonnes	12 483	4 467	10 136	6 397	3 799
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	105 868	112 993	114 231	120 076	131 818
Other ferro-alloys	tonnes	1 729	4 595	5 603	6	0
Silicon metal	tonnes	—	200	—	—	—
Scrap	tonnes	60 287	38 075	37 328	38 954	28 581
Salt	tonnes	3 718	2 115	1 093	1 402	694

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	30 405	4 846	6 492	7 524	32 327
Aluminium and bauxite						
Alumina	tonnes	1 620 531	1 557 309	1 612 188	1 539 080	1 590 521
Unwrought	tonnes	439	(a) 1 461	6 127	5 560	(a) 1 356
Bentonite and fuller's earth						
Bentonite	tonnes	2 392	1 259	432	563	281
Cement						
Cement clinkers	tonnes	628	30	42	49	71
Portland cement	tonnes	111 918	38 640	24 481	26 714	64 565
Other cement	tonnes	505	241	4 405	226	229
Coal						
Anthracite	tonnes	91 576	104 094	101 220	103 822	103 989
Other coal	tonnes	6 609	9 903	3 521	6 701	4
Diamond						
Gem, cut	Carats	* 200 000	* 100 000	110 592	90 000	160 000
Graphite	tonnes	11	2 132	18	18	33
Gypsum						
Crude	tonnes	10 533	4 724	2 579	892	682
Calcined	tonnes	1 606	642	192	181	190
Iodine	kilograms	12 029	9	9	24	278
Iron ore	tonnes	(b) 44 167	34 404	36 318	42 846	19 251
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 128	1 333	1 148	841	844
Ferro-alloys	tonnes	113	5 641	6 838	204	727
Silicon metal	tonnes	1 614	237	4 366	3 204	4 816
Scrap	tonnes	1 164	643	11 545	4 680	7
Platinum metals						
Platinum and platinum metals	kilograms	162	158	117	216	150
Rare earths						
Metals	tonnes	85	87	350	77	...
Salt	tonnes	113 142	98 207	65 342	94 177	100 020

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Silver						
Metal	kilograms	858	1 096	909	700	640
Titanium						
Metal	tonnes	34	99	100	59	75

Note(s)

(a) Including alloys

(b) Including burnt pyrites

Ireland, Republic of

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	* 25 000 000	* 15 000 000	10 000 000	7 000 000	7 000 000
Crushed rock	tonnes	* 60 000 000	* 50 000 000	40 000 000	25 000 000	22 000 000
Alumina	tonnes (Al ₂ O ₃ content)	1 890 000	1 240 000	1 864 000	1 922 000	1 924 000
Cement						
Cement, finished	tonnes	* 3 910 000	* 2 720 000	* 2 290 000	* 1 700 000	* 1 600 000
Gypsum	tonnes	* 600 000	* 400 000	* 300 000	* 300 000	* 200 000
Lead, mine	tonnes (metal content)	50 200	49 500	39 100	50 700	47 400
Lead, refined	tonnes	20 000	19 000	19 000	18 000	16 000
Natural gas (a)	million m ³	506	414	402	361	380
Silver	kilograms (metal content)	7 172	5 267	3 818	6 109	9 454
Zinc, mine	tonnes (metal content)	398 200	385 700	342 500	344 000	337 000

Note(s)

(a) Sales

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	255 295	40 626	13 318	16 005	88 530
Aluminium and bauxite						
Alumina	tonnes	1 709 302	895 034	1 542 563	1 794 148	1 616 065
Alumina hydrate	tonnes	88 039	95 548	124 803	103 631	30 328
Unwrought alloys	tonnes	3 711	2 455	2 576	3 109	2 684
Scrap	tonnes	21 041	18 257	22 810	29 261	24 137
Cement						
Cement clinkers	tonnes	—	4 823	1	—	16 698
Portland cement	tonnes	1 144 186	1 054 533	1 025 910	942 940	1 238 718
Other cement	tonnes	1 512	1 317	8 787	1 158	971
Coal						
Hard coal	tonnes	6 158	(a) 3 863	5 820	(a) 2 857	18 914
Briquettes	tonnes	6 508	9 858	12 695	11 333	12 115
Cobalt						
Ore	tonnes	144	84	184	68	177
Metal	tonnes	47	145	234	125	234
Copper						
Scrap	tonnes	21 421	23 305	13 172	10 168	10 046
Diamond						
Gem, cut	Carats	345 000	210 000	345 000	260 000	600 000
Industrial	Carats	4 872	204 108	58 658	2 801 447	460 000
Dust	Carats	...	25 308 022	65 757 012	2 738 380	...
Gold						
Waste and scrap	kilograms	5 578	11 155	10 480	9 268	68 063
Gypsum						
Crude	tonnes	1 094	10 425	23 355	5 390	5 176
Calcined	tonnes	32 821	28 491	15 129	21 274	16 585
Iodine	kilograms	1 536	1 982	—	2 589	—
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	924	547	262	9 240	510
Scrap	tonnes	485 387	428 416	484 871	609 985	517 800
Lead						
Ores and concentrates	tonnes	91 728	109 877	62 729	64 470	80 910
Scrap	tonnes	49	114	638	4 144	42 384
Magnesite and magnesite						
Magnesite	tonnes	5 006	9 133	3 383	18 665	13 218
Magnesia	tonnes	9 912	8 595	33 334	11 761	3 465
Nickel						
Scrap	tonnes	236	220	557	269	208

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Crude petroleum	tonnes	—	11	96	46 629	62
Platinum metals						
Waste and scrap	kilograms	16 854	8 544	5 440	1 763	3 496
Rare earths						
Rare earth compounds	tonnes	9	7	1	1	4
Salt	tonnes	8 783	735	10 183	1 540	2 608
Silver						
Metal	kilograms	...	...	...	263	824
Tin						
Unwrought (b)	tonnes	34	23	689	—	—
Zinc						
Ores and concentrates	tonnes	404 303	594 268	588 143	660 259	647 444

Note(s)

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 368 008	781 470	652 594	695 162	817 052
Aluminium and bauxite						
Bauxite	tonnes	3 009 615	2 786 723	4 111 457	4 215 019	4 169 784
Alumina	tonnes	9 579	4 711	4 903	4 378	9 679
Antimony						
Metal	tonnes	2	2	64	—	—
Arsenic						
Metallic arsenic	tonnes	95	...	—	...	...
Bentonite and fuller's earth						
Bentonite	tonnes	2 643	2 741	2 734	2 623	2 788
Bismuth						
Metal	tonnes	38	14	5	1	1
Bromine	kilograms	1 520	799	743	38 566	675
Cement						
Cement clinkers	tonnes	36 153	31 983	15 459	23 190	24 718
Portland cement	tonnes	780 528	192 556	133 977	100 440	86 608
Other cement	tonnes	14 649	10 698	4 974	4 112	4 375
Chromium						
Metal	tonnes	120	138	83	179	40
Coal						
Anthracite	tonnes	47 392	53 413	77 112	33 665	30 564
Other coal	tonnes	2 169 185	1 721 651	1 601 294	2 149 095	2 028 332
Lignite	tonnes	153	415	242	60	34 846
Briquettes	tonnes	19 049	40 482	31 507	30 673	46 258
Cobalt						
Metal	tonnes	622	777	756	601	743
Copper						
Ores and concentrates	tonnes	30 176	42 945	2	2	2
Diamond						
Unsorted	Carats	£1 019 000	£478 000	£362 000	£320 000	£314 000
Gem, rough	Carats	3 240 000	1 885 000	1 565 000	1 620 000	1 595 000
Gem, cut	Carats	28 020 000	18 170 000	11 385 000	6 745 000	3 905 000
Industrial	Carats	10 560 000	2 100 000	4 585 000	2 570 000	1 545 000
Dust	Carats	232 059 616	86 782 073	86 782 073	737 418 949	358 020 000
Diatomite	tonnes	1 458	1 243	640	699	965
Gold						
Metal	kilograms	£5 271 000	£4 365 000	£4 047 000	£5 356 000	£7 079 000
Gypsum						
Crude	tonnes	1 412	15 931	20 637	2 731	10 715
Calcined	tonnes	24 877	13 930	5 410	9 318	7 623
Iodine	kilograms	21 515	24 358	13 311	22 220	32 305
Iron ore (a)	tonnes	4 721	31 488	109	507	147

Ireland, Republic of

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 359	1 202	1 345	947	1 182
Sponge and powder	tonnes	997	955	989	1 176	1 216
Ferro-chrome	tonnes	31	53	89	128	100
Other ferro-alloys	tonnes	338	683	296	233	139
Ingots, blooms, billets	tonnes	5 459	5 373	7 332	5 423	4 952
Scrap	tonnes	4 206	4 388	4 030	3 310	6 565
Kaolin	tonnes	18 766	3 155	4 039	3 414	3 377
Lead						
Unwrought	tonnes	23 480	15 784	14 357	15 345	5 199
Scrap	tonnes	17 702	16 689	12 074	12 305	14 089
Magnesite and magnesia						
Magnesite	tonnes	4 385	4 191	5 535	6 333	1 731
Magnesia	tonnes	42 999	22 523	39 638	49 122	48 779
Manganese						
Ores and concentrates (b)	tonnes	75	65	54	9 565	31
Mercury	kilograms	979	1 182	8 582	24	81
Mica	tonnes	291	43	77	24	32
Nickel						
Unwrought (c)	tonnes	1 118	626	1 503	1 748	568
Crude petroleum	tonnes	2 878 397	2 792 968	2 931 391	2 720 968	2 843 575
Natural gas	tonnes	4 364 595	4 192 236	4 738 918	4 430 360	4 282 222
Phosphate rock	tonnes	3 425	85	5 328	264	327
Platinum metals						
Platinum and platinum metals	kilograms	2 185	121 381	9 470	7 826	13 879
Potash						
Chloride	tonnes	97 056	29 932	99 181	95 816	85 536
Other potassic fertilisers	tonnes	4 347	3 390	7 570	2 011	5 249
Rare earths						
Rare earth compounds	tonnes	21	67	8	85	3
Salt	tonnes	105 636	114 659	172 053	308 884	105 270
Silver						
Metal	kilograms	29 530	5 316	3 999	5 431	3 571
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	305	74	17	0	...
Talc	tonnes	473	1 722	1 140	1 320	3 033
Tantalum and niobium						
Tantalum	tonnes	2	4	85	0	1
Tin						
Unwrought (c)	tonnes	389	100	157	117	22
Titanium						
Metal	tonnes	1 154	507	414	202	432
Oxides	tonnes	3 961	4 308	4 922	4 312	3 924
Tungsten						
Metal	tonnes	215	68	91	76	121
Carbide	tonnes	158	108	68	186	116
Zinc						
Ores and concentrates	tonnes	76 922	15	8	8	6
Unwrought (c)	tonnes	5 185	2 210	2 104	2 358	2 058
Scrap	tonnes	1 268	—	—	—	—
Zirconium						
Concentrates	tonnes	3 976	1 323	16 162	886	146

Note(s)

(a) Including burnt pyrites

(b) Including manganiferous iron ore

(c) Including alloys

Italy

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel (a)	tonnes	174 779 712	164 218 753	150 996 352	164 844 967	123 049 565
Crushed rock (a)	tonnes	91 373 378	84 717 579	80 336 696	76 793 269	74 169 360
Alumina	tonnes (Al ₂ O ₃ content)	1 045 000	92 000	—	—	—
Primary aluminium	tonnes	186 400	165 800	129 500	141 900	99 600
Barytes	tonnes	* 5 000	* 3 500	* 3 500	* 3 500	* 3 500
Bentonite and fuller's earth						
Bentonite	tonnes	124 419	114 212	104 279	105 952	144 710
Cement						
Cement, clinker (a)	tonnes	957 371	637 853	966 577	1 286 791	1 284 948
Cement, finished	tonnes	42 863 063	33 611 625	37 061 576	35 687 105	28 005 259
Copper, refined	tonnes	24 200	6 500	1 800	7 600	7 700
Feldspar	tonnes	4 727 000	* 4 700 000	* 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	10 400 000	5 670 000	8 555 000	9 824 000	9 417 000
Crude steel	tonnes	30 590 000	19 848 000	25 750 000	28 735 000	27 257 000
Ferro-alloys						
Ferro-manganese	tonnes	* 30 000	* 20 000	* 25 000	* 25 000	* 27 000
Ferro-silico-manganese	tonnes	87 000	56 000	108 000	145 000	110 000
Kaolin	tonnes	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Lead, refined	tonnes	199 900	149 000	150 000	146 500	138 400
Perlite	tonnes	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Crude petroleum	tonnes	5 219 751	4 550 816	5 080 498	5 286 042	5 376 629
Natural gas	million m ³	9 070	7 909	8 265	8 339	8 511
Salt						
Rock salt and brine salt	tonnes	5 412 449	3 678 234	4 006 882	2 912 128	2 862 440
Talc	tonnes	* 110 000	* 110 000	* 110 000	* 110 000	* 110 000
Slab zinc	tonnes	107 100	103 400	104 700	110 200	97 200

Note(s)

(1) Italy is also believed to produce sulphur

(a) Sales

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 522 229	1 308 016	1 507 704	1 071 579	1 073 466
Aluminium and bauxite						
Bauxite	tonnes	26 718	4 585	66 218	46 330	93 847
Alumina	tonnes	571 090	61 223	17 056	16 821	3 424
Alumina hydrate	tonnes	35 538	1 243	4 346	7 023	6 448
Unwrought	tonnes	18 249	30 019	49 442	25 882	30 378
Unwrought alloys	tonnes	96 798	122 294	220 237	286 525	311 381
Scrap	tonnes	56 214	82 055	107 131	102 696	103 518
Antimony						
Ores and concentrates	tonnes	386	566	960	898	1 311
Metal	tonnes	12	2	19	80	2
Oxide	tonnes	569	391	226	261	215
Barytes	tonnes	1 238	2 890	1 906	2 623	4 898
Bentonite and fuller's earth						
Bentonite	tonnes	293 417	186 219	257 173	214 775	225 729
Bismuth						
Metal	tonnes	38	5	1	13	11
Cadmium						
Metal	tonnes	1 633	2 030	3 104	1 722	363

Italy

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Cement						
Cement clinkers	tonnes	38 106	5 280	52 673	45 472	47 155
Portland cement	tonnes	2 094 130	1 637 605	2 035 118	1 681 397	1 838 228
Other cement	tonnes	491 150	469 636	393 746	250 624	200 038
Chromium						
Ores and concentrates	tonnes	2 567	1 762	1 617	3 764	1 831
Metal	tonnes	166	29	5	1	35
Coal						
Anthracite	tonnes	13 456	15 474	12 817	17 611	12 841
Other coal	tonnes	18 563	14 733	1 485	571	53 107
Briquettes	tonnes	492	514	3 923	213	798
Cobalt						
Oxides	tonnes	235	141	206	224	188
Metal	tonnes	220	205	187	230	177
Copper						
Unwrought, unrefined	tonnes	6 426	2 752	7 290	8 502	7 811
Unwrought, refined	tonnes	6 955	13 186	8 648	13 506	21 312
Unwrought alloys	tonnes	15 268	12 787	15 553	20 024	21 264
Scrap	tonnes	148 923	158 062	167 424	174 068	181 600
Diamond						
Unsorted	Carats	225 000	200 000	210 000	205 000	2 880 000
Gem, cut	Carats	149 203	155 195	243 170	181 572	...
Dust	Carats	10 384 560	1 550 895	15 054 770	14 873 656	10 850 000
Diatomite	tonnes	9 991	10 392	6 716	2 226	1 229
Feldspar	tonnes	324 977	126 289	194 763	288 246	220 404
Fluorspar	tonnes	31 271	9 518	6 740	28 942	48 048
Gold						
Metal	kilograms	51 260	106 646	109 762	176 952	200 363
Waste and scrap	kilograms	1 376	173	154 845	1 006	7 001
Graphite	tonnes	308	820	798	512	310
Gypsum						
Crude	tonnes	24 525	17 907	12 035	9 614	8 383
Calcined	tonnes	24 496	21 848	18 484	39 465	79 661
Iodine	kilograms	2 119	86 917	24 722	20 112	22 559
Iron ore (a)	tonnes	1 699	354	8 779	6 742	14 191
Iron, steel and ferro-alloys						
Pig iron	tonnes	36 137	61 761	38 026	22 412	51 911
Sponge and powder	tonnes	615	452	729	1 534	3 904
Ferro-chrome	tonnes	4 593	2 066	5 020	5 639	3 399
Ferro-silico-magnesium	tonnes	168	163	33	27	114
Ferro-manganese	tonnes	12 890	7 457	9 186	9 761	11 603
Ferro-silico-manganese	tonnes	6 882	4 322	4 316	3 890	15 215
Ferro-molybdenum	tonnes	277	1 266	149	41	1 048
Ferro-nickel	tonnes	123	418	176	215	52
Ferro-silicon	tonnes	7 094	6 395	6 329	8 642	7 741
Other ferro-alloys	tonnes	3 072	2 523	863	951	968
Silicon metal	tonnes	6 007	3 200	3 284	4 293	1 621
Ingots, blooms, billets	tonnes	964 245	570 380	909 562	908 493	831 477
Scrap	tonnes	387 528	325 026	422 731	317 626	324 451
Kaolin	tonnes	13 627	21 392	36 208	27 994	21 393
Lead						
Unwrought	tonnes	34 904	23 006	7 821	15 455	8 646
Scrap	tonnes	6 897	7 594	9 776	10 173	14 804
Lithium						
Carbonate	tonnes	193	145	49	105	73
Magnesite and magnesite						
Magnesite	tonnes	2 337	1 945	2 535	3 236	2 902
Magnesia	tonnes	8 172	5 873	7 393	6 194	7 283
Manganese						
Metal	tonnes	494	326	716	963	897
Mercury	kilograms	84 247	89 228	202 273	68 623	12 706
Mica	tonnes	3 211	857	697	1 014	1 138
Molybdenum						
Ores and concentrates	tonnes	159	205	1 523	2 299	3 153
Metal	tonnes	873	488	911	443	409
Oxides	tonnes	604	982	443	286	22

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Nickel						
Scrap	tonnes	658	541	3 537	627	1 260
Unwrought (b)	tonnes	972	1 293	2 408	2 097	2 182
Crude petroleum	tonnes	1 195 500	619 630	423 777	713 237	920 740
Natural gas	tonnes	1 749 247	1 620 776	1 427 161	159 619	143 244
Phosphate rock	tonnes	7 661	6 416	10 751	16 139	8 370
Platinum metals						
Platinum	kilograms	13 350	10 043	10 408	9 982	10 071
Platinum metals	kilograms	8 295	8 898	12 684	14 436	16 259
Waste and scrap	kilograms	257	311	634	37 750	2 899
Potash						
Potassic fertilisers	tonnes	6 345	12 725	13 629	8 702	8 551
Rare earths						
Metals	tonnes	112	78	101	145	111
Rare earth compounds	tonnes	153	167	236	322	353
Salt	tonnes	322 221	558 441	919 673	1 017 938	473 826
Silver						
Metal	kilograms	519 148	383 782	715 501	995 384	979 652
Sulphur and pyrites						
Pyrites	tonnes	10 071	6 005	13 698	16 032	11 114
Sulphur	tonnes	219 095	256 614	286 954	285 891	249 274
Sulphur, sublimed and precipitated	tonnes	4 693	21 430	22 485	55 740	17 021
Talc	tonnes	114 017	124 212	143 236	135 418	140 618
Tin						
Unwrought (b)	tonnes	392	411	367	383	582
Scrap	tonnes	249	154	289	243	240
Titanium						
Metal	tonnes	5 478	3 607	3 248	4 789	4 531
Oxides	tonnes	25 982	23 508	27 450	26 181	22 039
Tungsten						
Metal	tonnes	973	670	925	1 091	1 060
Vanadium						
Ores and concentrates	tonnes	217	385	...	...	...
Zinc						
Ores and concentrates	tonnes	99 121	48 051	98 211	71 471	84 569
Unwrought	tonnes	7 967	5 258	11 071	16 570	14 737
Unwrought alloys	tonnes	2 857	3 491	6 377	9 385	10 029
Scrap	tonnes	8 603	12 334	16 427	13 006	7 151
Zirconium						
Concentrates	tonnes	41 296	33 219	41 784	44 252	11 012
Metal	tonnes	233	274	136	34	137

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	4 139 144	3 654 570	3 057 378	2 135 306	966 588
Aluminium and bauxite						
Bauxite	tonnes	2 417 499	36 975	62 666	45 146	55 504
Alumina	tonnes	144 473	88 864	252 028	406 774	292 537
Alumina hydrate	tonnes	143 217	142 005	198 253	205 274	180 778
Unwrought	tonnes	445 882	284 779	432 393	482 850	355 557
Unwrought alloys	tonnes	436 207	310 560	488 002	563 882	489 373
Scrap	tonnes	377 441	268 836	372 686	461 302	444 544
Antimony						
Ores and concentrates	tonnes	1 171	935	1 378	1 169	1 474
Metal	tonnes	300	198	233	298	132
Oxide	tonnes	6 168	4 602	5 460	4 227	3 538
Arsenic						
Metallic arsenic	tonnes	43	45	19	74	33
Barytes	tonnes	102 684	51 615	67 303	88 574	69 098
Bentonite and fuller's earth						
Bentonite	tonnes	136 417	96 698	130 508	140 458	133 041
Bismuth						
Metal	tonnes	269	152	355	378	154
Bromine	kilograms	598 800	958 588	1 259 187	1 207 042	939 005
Cadmium						
Metal	tonnes	49	43	3	44	37
Cement						
Cement clinkers	tonnes	2 095 716	1 495 609	797 703	844 108	729 063
Portland cement	tonnes	962 746	1 433 820	1 298 080	1 119 225	998 392
Other cement	tonnes	295 988	308 222	139 459	125 066	106 926
Chromium						
Ores and concentrates	tonnes	36 552	23 842	22 012	31 861	30 547
Metal	tonnes	721	943	881	1 738	1 598
Coal						
Anthracite	tonnes	490 757	210 384	408 391	394 026	266 462
Other coal	tonnes	25 745 375	20 165 036	21 820 370	23 656 907	25 609 289
Briquettes	tonnes	5 392	7 786	6 233	3 857	1 905
Cobalt						
Metal	tonnes	703	632	477	758	609
Oxides	tonnes	561	473	707	719	679
Copper						
Matte and cement	tonnes	748	1 503	24	0	25
Unwrought	tonnes	617 790	544 635	628 325	615 251	583 215
Unwrought alloys	tonnes	18 531	8 166	14 679	15 910	14 795
Scrap	tonnes	167 212	91 519	129 074	148 358	137 709
Diamond						
Unsorted	Carats	£6 628 000	£1 738 000	£8 198 000	£8 652 000	£7 050 000
Gem, rough	Carats	10 000	25 000	60 000	115 000	175 000
Gem, cut	Carats	£307 964 000	£203 538 000	£285 718 000	£370 521 000	£338 455 000
Industrial	Carats	£4 859 000	£1 481 000	£7 993 000	£7 254 000	£4 318 000
Dust	Carats	252 290 000	121 055 000	196 860 000	248 520 000	252 160 000
Diatomite	tonnes	3 939	2 497	3 920	5 555	5 091
Feldspar	tonnes	2 511 704	1 570 345	1 951 827	1 954 499	1 905 805
Fluorspar	tonnes	238 008	212 415	200 184	246 374	232 908
Gold						
Metal	kilograms	166 506	146 721	149 022	175 415	195 214
Waste and scrap	kilograms	851	864	649	9 834	5 075
Graphite	tonnes	11 832	5 995	8 308	12 559	6 411
Gypsum						
Crude	tonnes	21 411	5 754	3 618	2 205	8 793
Calcined	tonnes	19 621	16 645	16 267	16 976	17 916
Iodine	kilograms	1 343 977	1 256 232	1 080 203	1 375 868	1 633 655
Iron ore	tonnes	16 313 184	8 159 741	12 092 237	15 134 122	13 396 809

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 238 037	895 818	1 018 615	1 288 014	1 106 558
Sponge and powder	tonnes	396 660	174 364	278 989	540 005	551 034
Ferro-chrome	tonnes	389 002	296 813	390 374	414 410	416 091
Ferro-silico-chrome	tonnes	243	—	97	841	3
Ferro-silico-magnesium	tonnes	7 422	1 759	1 943	1 683	2 125
Ferro-manganese	tonnes	96 771	46 537	71 406	86 512	82 933
Ferro-silico-manganese	tonnes	186 135	119 670	158 540	176 855	167 310
Ferro-molybdenum	tonnes	8 318	3 998	6 141	8 541	9 547
Ferro-nickel	tonnes	104 198	78 383	98 168	116 806	128 877
Ferro-niobium	tonnes	2 733	1 395	2 751	2 521	2 619
Ferro-phosphorus	tonnes	488	550	631	414	365
Ferro-silicon	tonnes	122 236	89 909	137 031	160 561	118 880
Ferro-titanium and ferro-silico-titanium	tonnes	3 861	4 462	3 876	3 819	3 139
Ferro-tungsten and ferro-silico-tungsten	tonnes	578	300	247	252	269
Ferro-vanadium	tonnes	2 445	1 158	1 901	2 330	2 367
Other ferro-alloys	tonnes	8 294	4 267	7 325	9 198	7 117
Silicon metal	tonnes	57 493	27 402	48 392	53 131	41 277
Ingots, blooms, billets	tonnes	5 311 325	2 655 726	3 681 439	3 662 856	3 169 000
Scrap	tonnes	5 705 462	3 321 387	4 609 403	5 752 270	5 271 612
Kaolin	tonnes	810 560	505 593	823 461	707 622	681 595
Lead						
Ores and concentrates	tonnes	85 760	29 210	20	0	9 419
Unwrought	tonnes	99 015	86 054	111 301	109 458	89 266
Scrap	tonnes	2 972	2 031	2 609	4 976	4 111
Lithium						
Oxides	tonnes	246	96	175	148	143
Carbonate	tonnes	1 519	1 185	1 123	1 369	1 052
Magnesite and magnesite						
Magnesite	tonnes	18 347	9 375	21 454	27 347	13 774
Magnesite	tonnes	150 098	93 262	143 725	133 451	120 185
Manganese						
Ores and concentrates (a)	tonnes	114 289	77 075	55 284	81 629	107 907
Metal	tonnes	5 839	3 709	5 788	5 759	5 804
Mercury	kilograms	21 754	19 992	10 510	15 246	4 247
Mica						
Unmanufactured	tonnes	106	417	136	209	205
Ground	tonnes	3 980	2 597	3 854	3 849	3 489
Molybdenum						
Ores and concentrates	tonnes	6 220	6 703	9 108	5 248	4 794
Metal	tonnes	254	171	136	219	192
Oxides	tonnes	125	176	276	199	187
Nickel						
Unwrought	tonnes	42 339	25 833	39 586	38 075	33 635
Unwrought alloys	tonnes	2 164	2 841	1 171	1 314	2 626
Scrap	tonnes	892	763	1 063	656	899
Crude petroleum	tonnes	82 998 642	76 301 866	76 729 305	72 173 373	68 812 837
Natural gas	tonnes	36 489 000	52 879 546	59 616 091	50 506 295	48 666 707
Phosphate rock	tonnes	248 005	89 245	231 808	243 718	196 478
Platinum metals						
Platinum	kilograms	16 570	13 627	12 545	10 630	7 417
Palladium	kilograms	20 593	13 047	10 019	9 171	7 855
Other Platinum metals	kilograms	2 426	1 909	1 694	1 084	1 244
Waste and scrap	kilograms	7 646	8 178	16 918	1 468	3 103
Potash						
Sulphate	tonnes	78 513	31 910	88 593	58 418	52 568
Chloride	tonnes	346 465	144 086	367 465	287 984	285 476
Other potassic fertilisers	tonnes	9 882	3 413	8 415	1 368	511
Rare earths						
Metals	tonnes	144	87	124	108	30
Cerium compounds	tonnes	710	414	597	616	337
Other rare earth compounds	tonnes	431	258	303	307	257
Ferro-cerium and other pyrophoric alloys	tonnes	2	5	10	3	3
Salt	tonnes	572 965	902 241	1 119 583	1 045 659	1 128 585
Sillimanite minerals						
Sillimanite minerals	tonnes	19 422	38 590	14 473	17 937	11 720
Mullite	tonnes	11 194	6 582	16 141	13 564	16 084

Italy

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Silver						
Ores and concentrates	kilograms	—	15	70 440	31 391	11 644
Metal	kilograms	1 167 457	881 205	1 120 080	729 807	645 344
Sulphur and pyrites						
Pyrites	tonnes	20 984	228	13 538	29 746	10 436
Sulphur	tonnes	48 618	13 305	19 263	30 290	22 499
Sulphur, sublimed and precipitated	tonnes	2 711	3 617	758	732	887
Talc	tonnes	147 549	78 506	100 934	115 046	111 333
Tin						
Unwrought	tonnes	4 124	2 652	3 828	4 936	3 375
Unwrought alloys	tonnes	777	360	1 074	533	429
Scrap	tonnes	79	49	60	220	22
Titanium						
Titanium minerals	tonnes	102 909	74 338	98 978	111 842	(b)* 4 132
Metal	tonnes	7 155	3 352	4 497	9 420	7 367
Oxides	tonnes	141 959	139 071	160 361	164 708	137 976
Tungsten						
Metal	tonnes	255	147	496	552	656
Carbide	tonnes	350	103	279	440	240
Vanadium						
Ores and concentrates	tonnes	255	18	...	...	...
Pentoxide	tonnes	173	45	53	45	117
Zinc						
Ores and concentrates	tonnes	161 838	155 028	184 192	153 982	186 715
Unwrought	tonnes	179 691	118 424	245 254	244 557	164 716
Unwrought alloys	tonnes	81 350	22 194	34 595	39 554	31 434
Scrap	tonnes	15 369	15 315	27 740	36 491	36 134
Zirconium						
Concentrates	tonnes	129 999	53 845	98 214	81 360	40 897
Metal	tonnes	130	226	144	184	135

Note(s)

(a) Including manganiferous iron ore

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

Latvia

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	8 905 937	6 520 363	6 016 126	7 855 125	8 257 763
Crushed rock	tonnes	1 413 395	818 390	1 375 197	2 050 976	2 072 775
Cement						
Cement, clinker	tonnes	...	...	1 158 000	1 277 000	1 485 720
Cement, finished	tonnes	* 310 000	* 650 000	* 1 100 000	* 1 100 000	* 1 100 000
Gypsum (a)	tonnes	349 000	175 870	176 510	216 000	252 714
Crude steel	tonnes	635 000	692 000	655 000	568 000	804 000

Note(s)

(a) Including anhydrite

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	54 321	121 260	101 406	59 930	19 683
Aluminium and bauxite						
Alumina	tonnes	...	203	140	64 225	115 744
Unwrought alloys	tonnes	17 012	11 772	14 493	21 793	18 481
Scrap	tonnes	4 203	4 419	5 461	4 414	4 876
Cement						
Cement clinkers	tonnes	—	2 382	68 802	201 050	163 102
Portland cement	tonnes	240 311	147 960	562 435	673 260	759 738
Other cement	tonnes	20	126	76	250	176
Coal						
Hard coal (a)	tonnes	3 140	170	3 136	26 100	13 823
Briquettes	tonnes	79	74	3 262	6 402	4 007
Copper						
Unwrought	tonnes	4 117	2 518	726	1 650	5 471
Scrap	tonnes	6 900	6 138	7 106	13 679	8 494
Gypsum						
Crude and calcined	tonnes	63 732	37 352	38 596	47 016	84 358
Iodine	kilograms	200	—	4 200	—	7 400
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	...	204	4 051	9 502	30 189
Ferro-manganese	tonnes	1 343	402	794	1 132	515
Ferro-silico-manganese	tonnes	...	...	6 247	16 563	20 152
Ferro-silicon	tonnes	...	1	11 029	23 706	13 874
Ingots, blooms, billets	tonnes	4 010	2 323	2 442	5 045	72 535
Scrap	tonnes	388 456	213 766	396 794	563 192	507 285
Lead						
Scrap	tonnes	164	1 352	3 243	3 086	2 687
Nickel						
Scrap	tonnes	199	3 301	3 108	2 284	150
Unwrought alloys	tonnes	2	165	112	116	2
Crude petroleum	tonnes	...	93	524	42 208	45 767
Potash						
Chloride	tonnes	970	0	39	28	1 427
Potassic fertilisers	tonnes	123	379	357	535	1 344
Salt	tonnes	13 741	15 919	23 172	35 545	21 741
Tin						
Scrap	tonnes	3	...	175	8	2
Titanium						
Metal	tonnes	...	—	7	61	42

Latvia

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Zinc						
Scrap	tonnes	443	975	587	459	779

Note(s)

(a) Including anthracite

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	2 033 701	565 877	467 414	611 872	895 335
Aluminium and bauxite						
Scrap	tonnes	7 677	5 974	7 828	10 381	10 956
Bentonite and fuller's earth						
Bentonite	tonnes	2 628	2 148	2 787	3 434	2 701
Cement						
Cement clinkers	tonnes	30 233	34 375	158	6 551	701
Portland cement	tonnes	353 174	87 660	94 873	89 751	108 596
Other cement	tonnes	209	1 088	643	281	306
Coal						
Anthracite	tonnes	12 145	78	1 273	12 649	5 111
Other coal	tonnes	157 066	136 199	180 075	185 516	152 423
Copper						
Unwrought	tonnes	3 609	3 049	712	2 153	4 310
Unwrought alloys	tonnes	1 361	926	698	950	2 597
Scrap	tonnes	656	1 307	2 942	3 855	5 014
Diatomite	tonnes	681	534	412	805	812
Feldspar	tonnes	852	9	577	561	1 292
Fluorspar	tonnes	240	468	678	775	1 269
Graphite	tonnes	2	—	1	1	3 813
Gypsum						
Crude	tonnes	146	1 037	22 669	33 495	48 578
Calcined	tonnes	5 672	883	2 027	2 787	2 523
Iron, steel and ferro-alloys						
Pig iron	tonnes	56 964	38 140	45 454	2 244	2 653
Sponge and powder	tonnes	19	14 931	4 460	565	104
Ferro-chrome	tonnes	140	588	6 995	9 782	17 179
Ferro-manganese	tonnes	10 334	2 345	4 090	1 480	584
Ferro-silico-manganese	tonnes	23 477	14 722	18 898	17 085	25 026
Ferro-silicon	tonnes	18 466	15 085	24 660	25 992	15 963
Other ferro-alloys	tonnes	132	415	158	245	199
Silicon metal	tonnes	467	783	1 553	981	1 134
Ingots, blooms, billets	tonnes	146 505	226 967	206 428	402 711	3 861
Scrap	tonnes	412 240	214 564	443 817	366 039	923 037
Kaolin	tonnes	11 173	7 476	10 594	9 289	10 768
Magnesite and magnesite						
Magnesite	tonnes	5 355	2 827	5 524	2 735	12 507
Nickel						
Unwrought	tonnes	3	1	...	...	(a) 584
Natural gas	tonnes	1 138 776	1 047 240	1 160 668	1 099 045	1 034 139
Platinum metals						
Platinum and platinum metals	kilograms	...	...	...	100	200
Waste and scrap	kilograms	2 842	(b)* 3 900	(b)* 400	...	...
Potash						
Chloride	tonnes	10 845	—	6 414	3 468	8 694
Salt	tonnes	144 424	151 529	163 486	198 975	135 514
Silver						
Metal	kilograms	1 174	556	791	2 300	1 400
Sulphur and pyrites						
Sulphur	tonnes	9	12 488	24	21	18
Talc	tonnes	417	314	295	145	126

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Titanium						
Oxides	tonnes	3 112	562	739	693	640
Zinc						
Unwrought (a)	tonnes	1 256	830	383	249	662

Note(s)

(a) Including alloys

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

Lithuania

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	9 469 411	5 029 476	5 655 401	5 776 850	5 081 166
Crushed rock	tonnes	6 913 160	2 849 122	3 281 330	4 456 089	3 244 314
Cement						
Cement, clinker	tonnes	—	233 292	—	—	—
Cement, finished	tonnes	1 075 581	583 067	834 000	996 284	1 014 977
Crude petroleum	tonnes	127 658	114 956	114 464	113 895	101 644
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	73 870	69 722	73 470	76 699	73 040

Note(s)

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

(a) From petroleum refining and/or natural gas

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	943 673	163 850	57 255	139 291	118 463
Aluminium and bauxite						
Unwrought alloys	tonnes	3 994	2 614	7 754	7 534	6 363
Scrap	tonnes	5 280	4 796	5 298	8 952	10 306
Bentonite and fuller's earth						
Bentonite	tonnes	1 929	266	442	1 628	1 386
Cement						
Cement clinkers	tonnes	130	39 878	14	98	19
Portland cement	tonnes	204 951	170 273	352 750	450 601	529 457
Other cement	tonnes	1 531	491	1 151	406	36
Coal						
Hard coal (a)	tonnes	7 685	10 915	33 109	28 271	5 762
Copper						
Unwrought	tonnes	135	610	591	4 873	1 481
Scrap	tonnes	4 675	3 375	4 128	5 724	7 582
Diatomite	tonnes	30	78	551	615	234
Gypsum						
Crude and calcined	tonnes	2 436	423	237	250	243
Iodine	kilograms	3	—	4	8 900	3 000
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	11 188	3 093	104	141	3 280
Scrap	tonnes	659 646	422 436	595 721	664 225	562 585
Kaolin	tonnes	12	18	40	648	1 258
Lead						
Scrap	tonnes	9 730	4 210	5 941	5 335	6 603
Magnesite and magnesia						
Magnesia	tonnes	...	537	717	352	350
Crude petroleum	tonnes	128 838	113 172	110 597	80 025	78 183
Phosphate rock	tonnes	140	—	—	—	20 000
Platinum metals						
Waste and scrap	kilograms	62 710	101 900	193 600	126 800	...
Potash						
Potassic fertilisers	tonnes	2 846	18 714	6 517	4 256	7 989
Rare earths						
Cerium compounds	tonnes	3	8	12	10	7
Salt	tonnes	6 063	5 437	19 031	13 514	7 653
Silver						
Metal	kilograms	600	200	1 100	1 600	2 900
Sulphur and pyrites						
Sulphur	tonnes	1 517	14 038	1 227	403	759

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Tantalum and niobium						
Tantalum	tonnes	31	11	9	18	10
Titanium						
Oxides	tonnes	1 230	502	1 167	965	1 029
Vanadium						
Ores and concentrates	tonnes	358	...	...	...	...

Note(s)

(a) Including anthracite

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 301 091	695 973	849 462	1 046 066	991 388
Aluminium and bauxite						
Bauxite	tonnes	...	6 923	4 348	...	—
Alumina	tonnes	10 282	1 815	16 411	26 876	23 690
Scrap	tonnes	1 887	888	2 460	6 014	3 238
Bentonite and fuller's earth						
Bentonite	tonnes	3 068	3 368	4 378	6 250	6 656
Cement						
Cement clinkers	tonnes	79 102	996	176 461	227 793	173 488
Portland cement	tonnes	111 578	133 039	122 178	144 824	147 329
Coal						
Anthracite	tonnes	3 049	15 755	3 616	24 260	62 934
Other coal	tonnes	379 646	199 684	313 355	368 099	256 651
Copper						
Unwrought	tonnes	1 454	415	596	4 652	1 251
Scrap	tonnes	550	409	436	634	2 505
Diatomite	tonnes	763	836	744	1 174	865
Feldspar	tonnes	1 516	2 958	6 265	10 278	6 700
Gold						
Waste and scrap	kilograms	—	103	—	64 453	12 202
Gypsum						
Crude	tonnes	90 320	28 754	54 772	63 632	64 379
Calcined	tonnes	43 127	19 974	17 377	18 503	19 211
Iodine	kilograms	383	4 510	17 732	20 100	3 200
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	9 634	2 842	32	35	42
Ferro-molybdenum	tonnes	2	2	—	3	936
Ferro-nickel	tonnes	0	...	...	674	986
Ferro-silicon	tonnes	374	39	102	40	40
Other ferro-alloys	tonnes	81	71	59	42	1 464
Ingots, blooms, billets	tonnes	9 661	1 229	4 270	5 384	4 536
Scrap	tonnes	64 462	29 805	35 270	71 858	59 444
Kaolin	tonnes	607	159	486	360	480
Lead						
Scrap	tonnes	162	3 301	4 459	5 755	1 892
Magnesite and magnesite						
Magnesia	tonnes	5 196	855	1 245	593	1 159
Molybdenum						
Metal	tonnes	6	7	65	37	45
Crude petroleum	tonnes	9 325 904	8 413 067	9 018 334	8 943 996	8 523 368
Natural gas	tonnes	2 246 642	1 761 529	2 048 906	2 385 268	2 265 929
Phosphate rock	tonnes	1 209 385	1 162 070	1 354 093	1 254 579	1 216 427
Platinum metals						
Waste and scrap	kilograms	40 800	22 700	76 400	64 600	4 800
Potash						
Sulphate	tonnes	10 971	2 617	2 581	7 069	6 267
Chloride	tonnes	107 749	6 631	32 552	35 602	52 573
Other potassic fertilisers	tonnes	487	87	4	112	1 837
Rare earths						
Rare earth compounds	tonnes	8	3	14	11	10

Lithuania

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Salt	tonnes	166 505	159 534	209 506	246 724	154 780
Silver						
Metal	kilograms	6 900	5 800	6 300	7 800	9 200
Sulphur and pyrites						
Sulphur	tonnes	293 365	319 353	326 485	298 977	293 839
Sulphur, sublimed and precipitated	tonnes	404	18	1	0	3
Talc	tonnes	388	225	270	190	154
Tantalum and niobium						
Tantalum	tonnes	38	24	12	13	4
Titanium						
Oxides	tonnes	980	1 259	1 947	2 081	2 028
Tungsten						
Metal	tonnes	1	—	1	156	52
Zinc						
Unwrought (a)	tonnes	563	190	460	1 049	1 063

Note(s)

(a) Including alloys

Luxembourg

Production

Commodity	Units	2008	2009	2010	2011	2012
Cement						
Cement, clinker	tonnes	761 800	706 426	736 000	770 232	* 750 000
Cement, finished	tonnes	907 500	929 820	1 030 700	1 232 633	* 1 200 000
Crude steel	tonnes	2 582 000	2 141 000	2 548 000	2 521 000	2 214 000

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	451 026	132 842	160 773	161 019	165 025
Aluminium and bauxite						
Unwrought alloys	tonnes	143 237	85 636	157 473	151 330	145 882
Scrap	tonnes	11 164	3 785	6 034	6 051	6 902
Cement						
Cement clinkers	tonnes	181 689	58 463	7 695	4 215	1
Portland cement	tonnes	109 447	119 660	341 075	424 306	321 903
Other cement	tonnes	264 233	137 975	219 688	320 980	338 240
Cobalt						
Metal	tonnes	7	3	1	305	1
Copper						
Scrap	tonnes	2 412	1 787	2 492	2 449	2 449
Diamond						
Dust	Carats	346 291 881	313 330	750 900	1 006 960	13 945 000
Gold						
Metal	kilograms	55 600	38 000	32 700	8 000	4 500
Gypsum						
Crude and calcined	tonnes	553	661	1 596	1 919	1 698
Iodine	kilograms	...	...	83 600	40 900	—
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	49 843	16 793	10 953	37 393	27 521
Scrap	tonnes	504 067	114 924	165 832	133 133	102 625
Kaolin	tonnes	268	414	22	6	54
Magnesite and magnesia						
Magnesite	tonnes	481	621	943	1 325	1 171
Platinum metals						
Platinum and platinum metals	kilograms	5 800	2 500	...	—	—
Waste and scrap	kilograms	...	24 700	5 600	16 000	...
Potash						
Chloride	tonnes	778	98	330	190	122
Salt	tonnes	219	220	1 072	589	311
Silver						
Metal	kilograms	100	—	—	600	11 600
Tungsten						
Metal	tonnes	0	2	203	47	—
Zinc						
Scrap	tonnes	315	423	1 134	739	698

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 370 991	1 757 604	2 097 069	2 211 572	2 036 554
Aluminium and bauxite						
Unwrought	tonnes	52 669	33 315	62 504	51 627	44 826
Unwrought alloys	tonnes	9 320	4 480	7 362	5 586	8 278
Scrap	tonnes	123 407	48 091	128 632	121 295	161 015
Asbestos						
Unmanufactured	tonnes	...	—	—	37	1
Barytes	tonnes	27 726	16 377	17 182	17 049	12 350
Cement						
Cement clinkers	tonnes	36 976	17 827	27 238	34 532	34 703
Portland cement	tonnes	33 617	56 666	34 642	42 548	37 740
Other cement	tonnes	22 879	16 255	12 119	14 934	15 382
Coal						
Anthracite	tonnes	34 471	16 525	24 834	16 256	10 994
Other coal	tonnes	81 616	83 454	76 133	73 322	69 623
Lignite	tonnes	7 119	7 093	7 090	7 710	8 620
Cobalt						
Metal	tonnes	243	11	163	811	80
Copper						
Scrap	tonnes	8 833	7 533	10 708	10 061	14 275
Diamond						
Unsorted	Carats	£24 000	£47 000	£20 000	£248 000	£262 000
Gem, cut	Carats	£595 000	£446 000	£418 000	£533 000	£864 000
Industrial	Carats	155 000	60 000	105 000	35 000	860 000
Dust	Carats	£691 000	£227 000	£609 000	£472 000	£891 000
Diatomite	tonnes	1 492	7 054	7 858	7 394	129
Fluorspar	tonnes	1 343	618	983	887	795
Gold						
Metal	kilograms	37 400	10 000	12 300	13 300	10 000
Gypsum						
Crude	tonnes	51 416	57 828	50 104	69 918	63 994
Calcined	tonnes	25 257	15 793	10 715	18 459	24 216
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	5 478	1 132	910	1 317	1 193
Ferro-silico-manganese	tonnes	28 617	25 617	27 116	29 053	29 843
Ferro-niobium	tonnes	473	166	192	226	212
Ferro-silicon	tonnes	8 115	2 846	3 428	3 828	3 642
Ferro-vanadium	tonnes	357	150	292	328	298
Other ferro-alloys	tonnes	952	432	614	851	797
Ingots, blooms, billets	tonnes	1 004 405	364 945	407 419	370 786	237 293
Scrap	tonnes	3 880 672	1 829 754	2 693 481	2 632 849	2 259 684
Kaolin	tonnes	10 951	6 316	904	563	736
Magnesite and magnesite	tonnes	1 663	2 202	2 612	2 375	3 805
Natural gas	tonnes	221 375	92 122	3 591	3 077	1 441
Platinum metals						
Platinum and platinum metals	kilograms	1 410	1 702	1 633	0	289
Potash						
Potassic fertilisers	tonnes	2 048	801	1 681	1 167	1 252
Rare earths						
Rare earth compounds	tonnes	1	2	2	5	2
Ferro-cerium and other pyrophoric alloys	tonnes	—	—	11	0	—
Salt	tonnes	45 882	51 132	77 304	91 033	24 059
Silver						
Metal	kilograms	7 061	3 738	24 304	11 000	2 800
Sulphur and pyrites						
Sulphur	tonnes	5 771	2 981	2 166	1 789	1 432
Titanium						
Metal	tonnes	165	66	456	1 842	786
Oxides	tonnes	1 051	1 114	1 481	1 534	1 494
Tungsten						
Carbide	tonnes	983	465	7	2	—
Zinc						
Unwrought	tonnes	5 831	6 049	9 232	6 819	7 461
Unwrought alloys	tonnes	537	237	475	533	550

Macedonia

Production

Commodity	Units	2008	2009	2010	2011	2012
Bentonite and fuller's earth						
Bentonite	tonnes	13 689	9 033	7 084	8 918	2 355
Coal						
Lignite	tonnes	7 669 103	7 395 915	6 583 074	7 902 084	7 309 546
Copper, mine	tonnes (metal content)	8 051	7 440	7 912	7 555	9 506
Feldspar	tonnes	28 920	19 377	23 188	25 032	17 168
Gypsum (a)	tonnes	242 400	154 550	143 118	162 984	157 844
Crude steel	tonnes	344 866	299 332	344 866	348 576	225 224
Ferro-alloys						
Ferro-silico-manganese	tonnes	54 931	—	36 705	50 756	14 179
Ferro-nickel	tonnes	15 026	12 000	14 413	17 292	19 247
Ferro-silicon	tonnes	42 674	7 657	30 044	56 167	42 402
Lead, mine	tonnes (metal content)	49 877	46 788	41 293	37 295	39 184
Nickel, smelter/refinery	tonnes	15 000	12 000	14 400	17 292	19 200
Nickel, mined	tonnes (metal content)	15 000	12 000	14 200	25 600	19 200
Silver	kilograms (metal content)	* 40 000	* 35 000	* 32 000	* 30 000	* 31 000
Talc	tonnes	977	682	1 292	547	286
Zinc, mine	tonnes (metal content)	38 737	38 648	32 872	28 132	28 037

Note(s)

(a) Including anhydrite

Exports

Commodity	Units	2008	2009	2010	2011	2012
Aluminium and bauxite						
Scrap	tonnes	2 043	1 514	2 351	2 432	2 724
Bentonite and fuller's earth						
Bentonite	tonnes	5 201	3 716	3 310	3 730	3 635
Cement						
Cement clinkers	tonnes	173 089	5 638	...	0	154 117
Portland cement	tonnes	281 782	361 677	315 074	277 326	136 803
Copper						
Ores and concentrates (a)	tonnes	* 41 000	* 39 000	* 41 000	* 39 000	* 45 000
Unwrought	tonnes	—	14	8	8	1 090
Scrap	tonnes	2 302	2 029	576	2 845	2 221
Feldspar	tonnes	23 762	18 457	21 924	25 111	14 857
Gypsum						
Crude and calcined	tonnes	12 496	12 604	30 273	32 328	715
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	...	773	50	4	209
Ferro-silico-manganese	tonnes	...	10 938	31 344	46 254	22 482
Ferro-nickel	tonnes	...	(a)* 91 800	67 384	77 107	89 302
Ferro-silicon	tonnes	(a)* 257 000	16 621	19 491	52 684	41 131
Scrap	tonnes	104 326	59 407	71 830	83 784	88 861
Lead						
Ores and concentrates	tonnes	...	60 702	55 482	48 959	49 055
Unwrought	tonnes	184	1 271	801	421	685
Scrap	tonnes	2 209	226	226	219	218
Nickel						
Ores and concentrates	tonnes	...	0	60 181	25 579	16 219
Phosphate rock	tonnes	1 685	1 233	1 056	651	709
Salt	tonnes	3 255	3 616	2 666	5 456	4 898
Talc	tonnes	509	528	636	648	380

Macedonia

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Zinc						
Ores and concentrates	tonnes	...	69 509	60 369	51 545	51 154
Scrap	tonnes	576	479	739	313	103

Note(s)

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 163	894	1 029	1 180	3 403
Aluminium and bauxite						
Unwrought (a)	tonnes	3 446	2 164	2 839	2 642	2 785
Scrap	tonnes	485	1 341	1 554	1 842	1 073
Bentonite and fuller's earth						
Bentonite	tonnes	168	142	219	302	725
Cement						
Cement clinkers	tonnes	(b)* 9 000	(b)* 17 000	(b)* 2 000	8 932	(b)* —
Portland cement	tonnes	136 030	193 076	185 378	148 954	193 978
Other cement	tonnes	797	397	1 213	409	501
Chromium						
Ores and concentrates	tonnes	306	495	294	512	324
Coal						
Hard coal (c)	tonnes	214 078	85 660	160 162	189 549	233 556
Lignite	tonnes	...	340	23 409	42 052	27 024
Briquettes	tonnes	56 640	9 207	7 623	22 546	18 209
Fluorspar	tonnes	300	457	350	600	244
Graphite	tonnes	1 522	761	875	911	648
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 609	1 732	1 823	1 382	1 075
Ferro-alloys	tonnes	3 402	1 618	2 401	5 970	3 251
Ingots, blooms, billets	tonnes	482 294	157 566	145 509	97 889	100 791
Scrap	tonnes	255 543	7 375	292 049	318 612	157 401
Kaolin	tonnes	12 259	4 879	4 985	3 815	1 440
Magnesite and magnesite	tonnes	13 956	10 113	11 266	9 418	5 547
Manganese						
Ores and concentrates	tonnes	170 455	...	56 893	110 589	42 109
Nickel						
Ores and concentrates	tonnes	789 929	985 925	1 210 300	1 393 490	1 518 156
Natural gas	tonnes	86 823	53 192	79 059	93 816	96 877
Crude petroleum	tonnes	1 057 671	992 672	852 361	685 090	258 896
Platinum metals						
Platinum and platinum metals	kilograms	—	—	2 420	7 649	9 910
Salt	tonnes	37 575	39 232	42 011	39 986	49 248
Silver						
Metal	kilograms	3 807	2 229	3 294	3 779	2 032
Titanium						
Oxides	tonnes	426	427	504	502	455
Zinc						
Unwrought (a)	tonnes	4 954	4 147	5 213	4 920	4 611

Note(s)

(a) Including alloys

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

(c) Including anthracite

Malta

Exports

Commodity	Units	2008	2009	2010	2011	2012
Aluminium and bauxite						
Scrap	tonnes	1 441	1 361	1 865	1 788	2 058
Copper						
Scrap	tonnes	1 890	1 828	919	1 096	1 287
Gold						
Waste and scrap	kilograms	...	...	17 008	27 387	...
Iron, steel and ferro-alloys						
Scrap	tonnes	25 379	27 775	29 498	38 408	34 244
Silver						
Metal	kilograms	...	...	100	500	500
Tin						
Scrap	tonnes	250	* 1	* 3	4	134

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	25 817	47 363	37 324	28 813	38 373
Bentonite and fuller's earth						
Bentonite	tonnes	639	635	921	844	446
Cement						
Portland cement	tonnes	374 392	328 411	285 182	258 304	260 664
Other cement	tonnes	1 498	1 552	13 002	6 676	2 906
Gold						
Metal	kilograms	6 820	5 500	8 200	3 400	3 100
Gypsum						
Crude and calcined	tonnes	5 505	2 305	10 446	11 428	12 507
Salt	tonnes	3 794	1 364	1 682	1 366	2 567
Silver						
Metal	kilograms	5 455	1 090	128	100	100
Titanium						
Oxides	tonnes	463	470	463	445	346

Montenegro

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	234 210	183 235	255 678	133 947	201 896
Crushed rock	tonnes	462 331	186 221	265 066	167 405	112 630
Bauxite	tonnes	671 811	45 779	61 205	158 614	—
Alumina	tonnes (Al ₂ O ₃ content)	220 426	58 528	—	—	—
Primary aluminium	tonnes	111 513	63 960	82 043	92 838	74 813
Coal						
Lignite	tonnes	1 740 076	957 164	1 937 847	1 972 671	1 706 302
Crude steel	tonnes	201 623	90 404	48 272	61 164	28 161
Salt						
Sea salt	tonnes	25 200	17 000	11 200	10 000	16 000

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	151 614	127 600	112 522	32 451	15 527
Aluminium and bauxite						
Bauxite	tonnes	101 182	17 122	85 623	127 268	26 354
Unwrought	tonnes	(a) 92 372	(a) 82 877	(a) 76 891	108 813	75 180
Scrap	tonnes	2 692	1 570	2 045	2 357	2 356
Bentonite and fuller's earth						
Bentonite	tonnes	1 384	24	48	27	26
Cement						
Portland cement	tonnes	...	...	...	2 372	1 583
Coal						
Lignite	tonnes	40 449	58 381	69 130	48 940	47 778
Copper						
Scrap	tonnes	1 356	1 029	1 769	2 356	1 650
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	32 159	15 423	18 775	6 866	9 199
Scrap	tonnes	10 229	14 442	28 570	55 204	43 998
Salt	tonnes	3 505	3 776	14 316	1 560	1 845
Zinc						
Ores and concentrates	tonnes	...	...	499	6 579	9 120

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	74 112	44 639	26 703	12 574	4 709
Aluminium and bauxite						
Alumina	tonnes	7	55 777	157 753	185 103	139 940
Asbestos						
Unmanufactured	tonnes	48	0	22	...	...
Cement						
Portland cement	tonnes	517 062	279 497	266 063	250 759	248 013
Other cement	tonnes	214 958	171 150	116 132	90 911	92 927
Coal						
Lignite	tonnes	12 792	6 734	—	62	39
Briquettes	tonnes	15 410	3 448	(a) 0	3	14
Diamond						
Dust	Carats	117 503	17 850	45 000	...	...

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Gypsum						
Crude and calcined	tonnes	1 747	3 356	653	730	521
Iron, steel and ferro-alloys						
Pig iron	tonnes	17 864	13 954	322	1 150	119
Ferro-chrome	tonnes	356	103	242	395	249
Ferro-silico-manganese	tonnes	2 921	1 664	1 663	891	306
Ferro-silicon	tonnes	697	271	288	187	402
Other ferro-alloys	tonnes	66	24	55	171	38
Scrap	tonnes	138 502	54 801	19 950	27 396	11 306
Salt	tonnes	4 814	10 402	6 470	9 600	6 795

Note(s)

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

Netherlands

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	70 409 000	63 350 000	56 865 000	71 320 000	* 71 000 000
Primary aluminium	tonnes	317 000	165 000	217 000	* 200 000	* 200 000
Cadmium	tonnes	530	* 490	* 560	* 570	* 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	6 130 000	4 655 000	5 799 000	5 943 000	5 909 000
Crude steel	tonnes	6 853 000	5 194 000	6 651 000	6 937 000	6 879 000
Lead, refined	tonnes	* 16 000	* 21 000	* 20 000	* 21 000	* 22 000
Magnesite (a)	tonnes	316 264	183 256	236 053	274 877	290 873
Crude petroleum	tonnes	2 163 000	1 704 000	1 414 000	1 464 000	1 467 000
Natural gas	million m ³	79 325	74 659	83 944	76 429	76 020
Salt	tonnes	6 200 000	5 967 000	5 982 000	6 866 000	6 513 000
Slab zinc	tonnes	250 000	224 000	264 000	261 000	257 000

Note(s)

(1) Netherlands is also believed to produce sulphur

(a) Chloride produced from solution mining

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	9 339 355	7 140 000	9 311 275	15 472 833	15 140 085
Aluminium and bauxite						
Bauxite	tonnes	129 186	* 59 000	26 997	12 739	19 133
Alumina	tonnes	257 169	62 131	8 665	43 695	9 831
Alumina hydrate	tonnes	85 713	65 279	76 244	89 612	128 448
Unwrought	tonnes	332 871	218 141	424 733	390 062	371 106
Unwrought alloys	tonnes	361 012	191 239	320 263	246 826	203 792
Scrap	tonnes	264 142	200 650	317 038	322 834	372 917
Antimony						
Metal	tonnes	185	171	219	385	475
Oxide	tonnes	346	285	433	264	206
Arsenic						
Metallic arsenic	tonnes	67	* 30	11	62	55
Barytes	tonnes	58 740	121 567	79 880	71 719	92 823
Bentonite and fuller's earth						
Bentonite	tonnes	120 946	135 722	178 093	186 574	141 709
Bismuth						
Metal	tonnes	196	28	34	32	52
Bromine	kilograms	1 821 400	1 960 700	1 477 700	1 154 400	84 300
Cadmium						
Metal	tonnes	816	305	606	617	839
Cement						
Cement clinkers	tonnes	0	352	34	3 911	33 160
Portland cement	tonnes	298 133	194 392	201 065	310 479	274 856
Other cement	tonnes	6 217	11 447	57 922	150 175	203 678
Chromium						
Ores and concentrates	tonnes	117 639	32 485	74 483	126 012	156 975
Metal	tonnes	4 282	885	3 569	2 197	3 112
Coal						
Anthracite	tonnes	109 516	78 064	41 054	303 741	153 370
Other coal	tonnes	6 399 941	5 154 853	7 580 839	8 239 446	1 281 730
Briquettes	tonnes	15	16 347	144 797	294 637	148 931
Cobalt						
Oxides	tonnes	959	65	144	67	132
Metal	tonnes	1 090	353	1 733	2 062	1 934

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Copper						
Unwrought	tonnes	27 105	29 260	20 175	34 435	59 260
Unwrought alloys	tonnes	6 693	2 413	2 379	3 057	2 389
Scrap	tonnes	241 332	143 329	283 847	315 437	328 463
Diamond						
Unsorted	Carats	£442 000	£494 000	£371 000	£1 799 000	£823 000
Gem, cut	Carats	£7 567 000	£3 780 000	£3 132 000	£16 418 000	£8 002 000
Industrial	Carats	£2 156 000	£1 415 000	£2 179 000	£1 282 000	£1 508 000
Dust	Carats	£45 000	£196 000	£51 000	£57 000	£97 000
Diatomite	tonnes	301	1 365	359	633	807
Feldspar	tonnes	555	1 355	105	112	281
Fluorspar	tonnes	12 665	11 333	14 023	28 870	19 488
Gold						
Metal	kilograms	37 439	15 515	34 851	50 559	37 629
Waste and scrap	kilograms	45 456	1 222	57 680	112 629	123 769
Graphite	tonnes	1 378	1 974	2 967	10 651	11 201
Gypsum						
Crude	tonnes	37 991	* 39 600	15 773	42 080	36 388
Calcined	tonnes	15 228	5 550	1 656	2 714	3 005
Iodine	kilograms	773 705	386 170	124 797	152 295	122 569
Iron ore	tonnes	(a) 85 698	(a) 239 932	121 426	208 469	49 903
Iron, steel and ferro-alloys						
Pig iron	tonnes	170 468	89 714	111 189	133 861	184 975
Ferro-chrome	tonnes	103 036	62 439	170 489	242 310	232 408
Ferro-silico-chrome	tonnes	15	* 300	448	14 816	31 811
Ferro-manganese	tonnes	65 203	33 193	35 353	66 053	57 013
Ferro-silico-manganese	tonnes	17 571	37 593	66 085	62 737	99 228
Ferro-molybdenum	tonnes	3 150	1 894	6 462	6 544	8 031
Ferro-nickel	tonnes	5 086	3 564	6 264	7 514	10 306
Ferro-niobium	tonnes	1 736	925	1 175	2 070	1 280
Ferro-silicon	tonnes	71 762	87 348	219 244	238 469	226 217
Ferro-titanium and ferro-silico-titanium	tonnes	3 046	2 730	10 510	13 620	10 357
Ferro-tungsten and ferro-silico-tungsten	tonnes	1 168	476	727	1 155	990
Ferro-vanadium	tonnes	2 274	926	1 909	2 343	1 772
Other ferro-alloys	tonnes	22 603	* 33 000	50 903	16 535	15 559
Silicon metal	tonnes	15 547	46 466	69 896	65 055	86 097
Ingots, blooms, billets	tonnes	806 999	157 861	849 018	1 553 519	1 601 063
Scrap	tonnes	4 523 660	* 2 835 000	5 541 773	5 692 223	5 635 229
Kaolin	tonnes	72 264	33 563	33 923	24 652	25 254
Lead						
Ores and concentrates	tonnes	55 980	74 725	63 921	94 100	46 688
Unwrought	tonnes	7 725	11 061	12 971	16 989	14 432
Scrap	tonnes	12 278	13 807	35 168	30 486	21 665
Lithium						
Oxides	tonnes	511	205	116	365	303
Carbonate	tonnes	299	227	160	300	567
Magnesite and magnesite						
Magnesite	tonnes	494	180	423	744	31
Magnesia	tonnes	344 675	160 337	139 516	402 976	370 287
Manganese						
Ores and concentrates	tonnes	19 103	28 701	21 806	29 097	27 154
Metal	tonnes	19 144	15 642	38 159	44 310	29 855
Mercury	kilograms	192 605	419 480	195 272	72 020	67 263
Mica	tonnes	1 341	3 214	1 687	2 396	1 986
Molybdenum						
Ores and concentrates	tonnes	16 284	4 408	17 126	19 765	24 083
Metal	tonnes	282	46	249	492	128
Oxides	tonnes	4 253	1 805	6 429	6 434	6 407
Nickel						
Mattes, sinters etc (b)	tonnes	* 2 400	* 2 900	* 1 800	* 2 400	* 1 400
Unwrought (c)	tonnes	117	105	165	49 681	46 929
Scrap	tonnes	4 614	1 711	1 956	1 793	1 405
Crude petroleum	tonnes	328 795	184 860	340 357	81 621	396 475
Phosphate rock	tonnes	120 214	11 807	138 239	166 704	162 952

Netherlands

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Platinum metals						
Platinum	kilograms	£18 207 000	£59 804 000	£14 634 000	£9 386 000	£10 282 000
Platinum metals	kilograms	£10 385 000	£10 383 000	£7 953 000	£7 261 000	£5 329 000
Waste and scrap	kilograms	352 175	* 163 160	1 877	220	5 714
Potash						
Sulphate	tonnes	1 424	4 431	7 854	45 711	27 002
Chloride	tonnes	147 436	133 012	174 453	22 746	395 684
Other potassic fertilisers	tonnes	1 341	2 680	15 619	45 766	31 642
Rare earths						
Metals	tonnes	202	* 135	86	70	163
Rare earth compounds	tonnes	131	* 150	177	327	341
Ferro-cerium and other pyrophoric alloys	tonnes	19	44	49	18	32
Salt	tonnes	3 878 601	* 3 412 200	3 456 740	2 631 255	2 456 168
Sillimanite minerals	tonnes	10 848	5 602	6 907	23 239	13 447
Silver						
Ores and concentrates	kilograms	18 000	—	1 458	6 944	123
Metal	kilograms	208 300	196 180	216 182	624 589	241 614
Sulphur and pyrites						
Pyrites	tonnes	132 802	10 039	56 610	101 114	84 734
Sulphur	tonnes	850 183	36 898	480 968	469 819	561 995
Talc	tonnes	186 688	147 544	173 042	147 492	150 456
Tantalum and niobium						
Tantalum	tonnes	2	4	22	42	19
Tin						
Unwrought	tonnes	2 566	1 536	4 043	3 619	5 670
Unwrought alloys	tonnes	948	558	856	357	314
Scrap	tonnes	157	547	544	465	363
Titanium						
Titanium minerals	tonnes	1 341	13 664	101 840	69 170	57 796
Metal	tonnes	1 551	895	4 117	9 548	10 173
Oxides	tonnes	15 544	36 179	31 385	11 305	14 836
Tungsten						
Ores and concentrates	tonnes	29	25	104	0	0
Metal	tonnes	582	133	406	255	119
Vanadium						
Pentoxide	tonnes	45	102	122	186	328
Zinc						
Ores and concentrates	tonnes	0	425	12 182	132 344	90 253
Unwrought	tonnes	244 789	133 994	166 281	122 532	213 479
Unwrought alloys	tonnes	23 932	22 041	42 182	52 382	39 626
Scrap	tonnes	19 815	* 11 900	32 543	25 629	28 277
Zirconium						
Concentrates	tonnes	8 223	4 639	11 091	13 351	9 959

Note(s)

(a) Including burnt pyrites

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

(c) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	26 922 364	* 25 007 000	26 065 573	28 239 777	23 457 644
Aluminium and bauxite						
Bauxite	tonnes	182 711	68 038	113 499	113 653	108 492
Alumina	tonnes	689 724	153 891	692 413	955 665	626 715
Alumina hydrate	tonnes	178 940	52 798	167 596	246 013	243 186
Unwrought	tonnes	248 386	134 950	384 724	424 915	487 639
Unwrought alloys	tonnes	479 786	284 410	462 371	537 289	464 926
Scrap	tonnes	210 203	88 053	184 066	241 081	270 014
Antimony						
Metal	tonnes	234	150	314	208	586
Oxide	tonnes	51 439	2 257	57 454	26 729	18 315
Arsenic						
Metallic arsenic	tonnes	8	* 45	2	19	0
Barytes	tonnes	122 039	43 928	161 343	148 240	168 963
Bentonite and fuller's earth						
Bentonite	tonnes	314 298	* 190 000	237 683	289 615	277 221
Bismuth						
Metal	tonnes	120	42	259	192	427
Bromine (a)	kilograms	7 661	63 310	321 599	114 504	297 589
Cadmium						
Metal	tonnes	186	50	102	1	15
Cement						
Cement clinkers	tonnes	380 281	511 560	636 694	424 274	558 153
Portland cement	tonnes	1 705 144	904 788	1 123 936	1 580 140	1 278 033
Other cement	tonnes	993 318	842 190	1 136 163	1 475 035	1 488 241
Chromium						
Ores and concentrates	tonnes	145 698	18 702	88 788	135 776	180 648
Metal	tonnes	3 897	2 157	6 642	5 773	4 789
Coal						
Anthracite	tonnes	79 784	8 005	44 958	225 184	257 485
Other coal	tonnes	17 843 689	14 084 993	18 783 491	18 008 920	21 017 984
Lignite	tonnes	5 265	29 239	21 933	15 824	22 991
Briquettes	tonnes	53 432	53 030	132 281	429 514	1 398 836
Cobalt						
Metal	tonnes	1 124	* 491	962	1 023	1 249
Oxides	tonnes	244	54	118	596	16
Copper						
Ores and concentrates	tonnes	66	46	40	125	2 529
Unwrought, unrefined	tonnes	26	2 678	7 194	5 502	9
Unwrought, refined	tonnes	35 077	33 771	26 982	41 659	25 369
Unwrought alloys	tonnes	2 440	1 329	2 101	2 111	1 930
Scrap	tonnes	116 503	—	144 426	204 327	214 211
Diamond						
Unsorted	Carats	£803 000	£551 000	£80 000	£192 000	£144 000
Gem, rough	Carats	£1 071 000	£95 000	£47 000	£38 000	£61 000
Gem, cut	Carats	£17 750 000	£10 757 000	£15 248 000	£35 316 000	£30 128 000
Industrial	Carats	£1 088 000	£613 000	£624 000	£1 393 000	£1 392 000
Dust	Carats	791 805	426 830	290 475	2 074 815	820 000
Diatomite	tonnes	6 275	3 794	4 641	6 034	6 232
Feldspar	tonnes	12 633	8 849	15 721	9 071	57 431
Fluorspar	tonnes	13 860	13 014	14 295	23 603	11 725
Gold						
Metal	kilograms	41 012	42 806	37 888	38 349	35 027
Waste and scrap	kilograms	2 422	111	110 465	188 490	117
Graphite	tonnes	42 612	2 487	16 692	14 266	13 498
Gypsum						
Crude	tonnes	285 990	249 206	203 179	307 971	280 623
Calcined	tonnes	415 623	418 481	368 523	611 145	570 600
Iodine	kilograms	800 817	23 376	16 031	1 352 421	811 065
Iron ore	tonnes	10 831 769	(b) 4 585 303	(b) 8 810 077	8 921 399	7 445 399

Netherlands

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	292 867	122 185	98 575	213 530	190 874
Sponge and powder	tonnes	253 882	109 768	378 111	402 025	416 889
Ferro-chrome	tonnes	275 995	40 931	93 919	123 284	76 613
Ferro-silico-chrome	tonnes	1	1 394	2 838	525	353
Ferro-manganese	tonnes	96 135	39 045	86 504	89 805	84 529
Ferro-silico-manganese	tonnes	70 108	29 335	57 967	80 905	21 583
Ferro-molybdenum	tonnes	8 566	2 868	4 643	7 753	4 548
Ferro-nickel	tonnes	17 602	4 274	19 378	25 849	20 222
Ferro-niobium	tonnes	2 074	949	920	1 354	1 397
Ferro-silicon	tonnes	114 290	79 461	178 138	152 194	181 213
Ferro-titanium and ferro-silico-titanium	tonnes	6 781	1 860	11 922	13 484	14 189
Ferro-tungsten and ferro-silico-tungsten	tonnes	1 572	554	1 168	1 298	726
Ferro-vanadium	tonnes	2 042	519	2 014	1 890	1 710
Other ferro-alloys	tonnes	30 407	6 951	11 263	17 558	7 372
Silicon metal	tonnes	57 446	41 740	82 599	75 664	81 148
Ingots, blooms, billets	tonnes	283 834	110 561	536 157	1 335 875	1 040 244
Scrap	tonnes	1 842 597	* 1 135 000	1 988 278	2 188 452	2 408 332
Kaolin	tonnes	352 122	68 072	150 929	150 310	149 090
Lead						
Ores and concentrates	tonnes	5 307	1 935	1 558	8 083	29 375
Unwrought	tonnes	9 373	7 195	8 717	8 496	4 020
Scrap	tonnes	11 325	13 593	21 255	16 886	15 622
Lithium						
Oxides	tonnes	537	228	290	494	201
Carbonate	tonnes	729	316	431	527	462
Magnesite and magnesia						
Magnesite	tonnes	3 609	3 259	459	3 115	195
Magnesia	tonnes	314 860	80 478	345 154	458 372	340 922
Manganese						
Ores and concentrates	tonnes	10 664	9 398	23 045	33 555	66 281
Metal	tonnes	35 573	19 083	50 866	35 618	40 131
Mercury	kilograms	293 481	* 101 000	30 636	213 259	154 983
Mica						
Unmanufactured	tonnes	751	523	191	419	418
Ground	tonnes	2 618	3 490	21 756	20 744	4 632
Molybdenum						
Ores and concentrates	tonnes	36 305	9 555	35 335	40 562	39 782
Metal	tonnes	572	84	274	261	236
Oxides	tonnes	859	230	594	865	596
Nickel						
Ores and concentrates	tonnes	11	* 220	5 940	9 544	744
Unwrought	tonnes	...	...	...	230 179	32 005
Unwrought alloys	tonnes	1 227	227	638	3 548	982
Oxides (c)	tonnes	* 30	* 70	* 50	* 70	* 150
Scrap	tonnes	12 647	4 666	21 724	4 607	2 584
Crude petroleum	tonnes	58 484 561	35 086 584	60 408 191	55 108 848	63 505 928
Natural gas (c)	tonnes	* 17 228 000	* 9 512 000	* 11 044 000	* 12 153 000	* 10 107 568
Phosphate rock	tonnes	1 108 711	192 355	779 354	779 537	679 557
Platinum metals						
Platinum	kilograms	£89 137 000	£78 613 000	£25 740 000	£73 911 000	£79 002 282
Platinum metals	kilograms	£8 219 000	£11 659 000	£13 014 000	£54 486 000	£31 439 659
Waste and scrap	kilograms	40	111	260 515	411 332	5 883
Potash						
Sulphate	tonnes	17 393	28 984	21 982	56 536	66 497
Chloride	tonnes	307 612	204 377	430 138	756 966	905 233
Other potassic fertilisers	tonnes	3 899	3 466	1 542	26 231	24 569
Rare earths						
Metals	tonnes	261	* 200	48	18	99
Cerium compounds	tonnes	278	71	88	223	396
Other rare earth compounds	tonnes	2 766	* 1 100	568	173	742
Ferro-cerium and other pyrophoric alloys	tonnes	4	6	2	1	23
Salt	tonnes	167 508	* 253 000	1 404 032	2 397 781	331 643
Sillimanite minerals						
Sillimanite minerals	tonnes	3 400	2 425	3 576	13 342	13 177
Mullite	tonnes	18 557	21 064	51 745	64 162	34 244

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Silver						
Metal	kilograms	265 925	218 279	304 219	338 239	301 089
Sulphur and pyrites						
Pyrites	tonnes	145 627	2 119	48	1 593	329
Sulphur	tonnes	55 173	11 430	49 399	229 496	80 459
Sulphur, sublimed and precipitated	tonnes	0	2	4	7	3 736
Talc	tonnes	207 922	94 407	178 312	199 302	182 898
Tantalum and niobium						
Tantalum	tonnes	10	4	6	9	(c)* 24
Tin						
Unwrought	tonnes	11 003	7 071	13 967	11 303	7 453
Unwrought alloys	tonnes	2 540	504	665	505	276
Scrap	tonnes	503	380	606	524	424
Titanium						
Titanium minerals	tonnes	87 769	* 100 000	238 199	196 960	158 679
Metal	tonnes	1 073	1 224	5 330	6 094	5 709
Oxides	tonnes	37 101	40 914	43 542	52 165	2 973
Tungsten						
Ores and concentrates	tonnes	457	(c)* 900	(c)* 1 200	(c)* 3 100	(c)* 3 400
Metal	tonnes	329	71	206	209	211
Carbide	tonnes	94	42	18	15	23
Vanadium						
Pentoxide	tonnes	227	27	204	888	558
Zinc						
Ores and concentrates	tonnes	430 617	320 568	391 050	355 644	445 698
Unwrought	tonnes	155 003	104 253	254 953	227 277	221 680
Unwrought alloys	tonnes	24 062	15 791	19 827	13 356	8 029
Scrap	tonnes	6 270	8 274	12 653	9 283	6 759
Zirconium						
Concentrates	tonnes	24 694	11 027	23 981	43 560	17 070
Metal	tonnes	240	* 70	188	297	211

Note(s)

(a) May include some fluorine

(b) Including burnt pyrites

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

Norway

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	14 817 000	13 047 000	13 011 000	13 215 000	14 262 000
Crushed rock	tonnes	52 338 000	51 378 000	54 134 000	63 855 000	67 670 000
Primary aluminium	tonnes	1 368 000	1 090 000	1 400 000	1 982 000	1 985 000
Cadmium	tonnes	178	249	300	309	* 310
Cement						
Cement, clinker	tonnes	* 1 600 000	* 1 550 000	* 1 550 000	1 415 000	* 1 400 000
Cement, finished	tonnes	* 1 700 000	* 1 650 000	* 1 650 000	1 547 000	* 1 500 000
Coal						
Bituminous (a)	tonnes	3 429 000	2 437 000	1 685 000	1 640 000	1 583 000
Cobalt metal	tonnes	3 719	3 510	3 208	3 067	2 969
Copper, smelter	tonnes	37 000	33 900	36 200	36 000	38 000
Copper, refined	tonnes	37 000	33 900	36 200	36 000	38 000
Feldspar	tonnes	62 000	48 000	56 000	25 271	—
Graphite	tonnes	4 100	4 562	6 270	7 789	6 992
Gypsum (b)(c)	tonnes	70 013	68 103	36 395	88 953	85 296
Iron ore	tonnes	746 000	896 000	3 266 000	2 532 100	3 421 000
Pig iron	tonnes	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Crude steel	tonnes	560 000	595 000	520 000	620 000	683 000
Ferro-alloys						
Ferro-manganese	tonnes	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	tonnes	273 485	247 615	281 266	248 700	266 000
Ferro-silicon	tonnes	185 344	233 974	* 200 000	170 102	203 886
Other ferro-alloys	tonnes	* 60 000	* 150 000	* 150 000	* 150 000	* 150 000
Silicon metal	tonnes	180 135	169 643	* 170 000	* 170 000	* 170 000
Nickel, smelter/refinery	tonnes	88 700	88 577	92 185	92 000	92 000
Nickel, mined	tonnes (metal content)	377	336	348	339	351
Crude petroleum	tonnes	121 611 000	115 612 000	105 146 000	100 343 000	94 497 000
Natural gas	million m ³	99 300	104 800	107 800	101 697	114 918
Nepheline syenite	tonnes	346 000	270 000	327 000	330 000	320 000
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	* 95 000	* 90 000	* 96 000	* 96 000	* 96 000
Recovered (e)	tonnes (sulphur content)	28 000	25 000	22 000	19 000	* 20 000
Talc	tonnes	* 30 000	23 350	6 392	8 191	7 983
Titanium						
Ilmenite	tonnes	915 000	671 000	864 000	870 000	831 000
Slab zinc	tonnes	145 469	138 973	148 862	153 200	152 647

Note(s)

(1) Norway is also believed to produce gold

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

(b) Including anhydrite

(c) Sales

(d) From metal sulphide processing

(e) From petroleum refining and/or Natural gas

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	16 683 638	13 843 722	16 877 617	20 858 955	19 761 572
Aluminium and bauxite						
Unwrought	tonnes	105 729	106 593	74 941	58 478	66 997
Unwrought alloys	tonnes	1 484 854	1 249 830	1 420 662	1 370 411	1 287 135
Scrap	tonnes	41 476	80 729	77 216	88 312	76 950
Barytes	tonnes	5 608	4 069	12 071	8 008	9 954
Bentonite and fuller's earth						
Bentonite	tonnes	157	294	3 726	318	1 318
Bismuth						
Metal	tonnes	1	—	25	—	—
Cadmium						
Metal	tonnes	259	211	329	317	221
Cement						
Cement clinkers (a)	tonnes	* 118 000	* 104 000	* 150 000	* 251 000	* 104 000
Portland cement (a)	tonnes	* 152 000	* 14 200	* 144 000	* 94 000	* 138 000
Chromium						
Metal	tonnes	128	85	97	78	202
Cobalt						
Metal	tonnes	3 731	3 550	3 325	3 064	3 059
Copper						
Unwrought	tonnes	37 499	33 497	35 975	36 549	38 146
Scrap	tonnes	22 561	25 339	37 829	45 889	55 842
Diatomite	tonnes	770	6	1	—	9
Feldspar	tonnes	58 211	47 711	55 637	30 617	4 821
Gold						
Metal	kilograms	3 847	3 865	4 567	7 439	8 498
Waste and scrap	kilograms	600	1 197	1 482	1 904	4 261
Gypsum						
Crude and calcined	tonnes	69 976	68 140	36 298	85 598	90 159
Iodine	kilograms	—	250	—	13 250	1 127
Iron ore	tonnes	615 296	775 828	1 803 242	2 435 415	3 659 210
Iron, steel and ferro-alloys						
Pig iron (a)	tonnes	* 110 100	* 75 000	* 118 000	* 110 000	* 91 000
Sponge and powder	tonnes	798	286	678	169	1 269
Ferro-chrome	tonnes	(a)* 80	—	(a)* 30	(a)* 65	(a)* 90
Ferro-manganese (a)	tonnes	* 354 000	* 203 000	* 332 000	* 379 000	* 370 000
Ferro-silico-manganese	tonnes	257 804	200 279	245 095	246 808	277 070
Ferro-silicon	tonnes	209 669	115 682	214 643	246 711	244 224
Other ferro-alloys	tonnes	57 777	16 247	2 479	47	9
Silicon metal	tonnes	155 385	109 254	162 649	154 191	161 468
Ingots, blooms, billets	tonnes	62 625	106 505	64 474	92 475	163 423
Scrap	tonnes	269 370	228 138	337 675	289 943	345 558
Kaolin	tonnes	47	271	103	85	492
Lead						
Scrap	tonnes	695	504	1 800	1 444	1 944
Manganese						
Ores and concentrates	tonnes	10 266	9 214	10 709	2 600	39 355
Metal	tonnes	1 363	59	112	462	95
Mica	tonnes	2 640	1 835	2 078	2 144	2 093
Nickel						
Ores and concentrates	tonnes	8 093	2 464	4 818	7 598	7 969
Unwrought	tonnes	88 940	88 080	91 813	92 705	91 591
Scrap	tonnes	394	274	1 042	582	499
Crude petroleum	tonnes	91 299 591	87 982 743	79 030 886	70 031 846	64 341 641
Natural gas	tonnes	71 394 708	74 357 298	75 626 277	74 356 856	84 557 156
Platinum metals						
Platinum and platinum metals	kilograms	15 393	12 341	9 714	11 951	13 707
Waste and scrap	kilograms	5 119	35 829	157 937	36 399	63 560
Rare earths						
Metals	tonnes	1	105	—	19	5
Other rare earth compounds	tonnes	21	21	30	23	13
Salt	tonnes	4 833	14 998	12 609	5 775	17 053
Silver						
Metal	kilograms	59 381	58 979	57 617	62 849	49 856
Talc	tonnes	27 371	23 461	728	2 204	535

Norway

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Tin						
Scrap	tonnes	119	12	39	30	30
Titanium						
Titanium minerals (a)	tonnes	* 435 000	* 350 000	* 465 000	* 441 000	* 392 000
Metal	tonnes	339	227	231	343	243
Oxides (a)	tonnes	* 217 000	* 207 000	* 35 000	* 35 000	* 31 000
Zinc						
Unwrought	tonnes	130 397	128 416	122 649	119 770	115 789
Unwrought alloys	tonnes	9 227	6 107	19 889	29 094	28 188

Note(s)

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	80 161	66 884	82 706	98 721	107 087
Aluminium and bauxite						
Bauxite	tonnes	10 232	15 444	8 645	459	746
Alumina	tonnes	2 753 105	2 069 424	2 144 519	2 185 976	2 191 352
Alumina hydrate	tonnes	50 401	45 252	35 379	53 224	50 386
Unwrought	tonnes	381 638	240 409	512 340	450 432	298 464
Unwrought alloys	tonnes	58 995	95 120	68 086	27 867	41 031
Scrap	tonnes	37 386	26 598	38 039	42 078	31 750
Antimony						
Oxide	tonnes	371	200	264	193	211
Barytes	tonnes	121 259	146 535	149 510	139 620	124 210
Bentonite and fuller's earth						
Bentonite	tonnes	14 783	12 612	14 506	12 668	11 620
Cement						
Cement clinkers	tonnes	36 704	6 904	7 070	170	312
Portland cement	tonnes	361 216	237 896	353 102	409 018	435 344
Other cement	tonnes	22 317	20 474	21 621	25 809	28 533
Chromium						
Ores and concentrates (a)	tonnes	* 600	* 400	* 400	* 500	* 300
Metal	tonnes	128	74	90	437	453
Coal						
Anthracite (b)	tonnes	81 955	54 199	78 387	79 140	78 412
Other coal (a)(b)	tonnes	* 538 000	* 367 000	* 517 000	* 230 000	* 468 000
Briquettes	tonnes	24 406	1 074	1 160	733	792
Cobalt						
Metal	tonnes	3 131	3 012	2 132	684	5 090
Oxides	tonnes	—	155	0	0	3
Copper						
Unwrought	tonnes	3 133	1 627	4 609	909	704
Scrap	tonnes	11 189	9 727	9 891	12 856	12 073
Diamond						
Gem, cut	Carats	13 178	9 604	8 545	5 305	* 4 400
Industrial	Carats	100 000	85 000	160 000	140 000	285 000
Diatomite	tonnes	1 891	931	842	808	867
Feldspar	tonnes	17 367	13 781	16 413	18 228	14 322
Gold						
Metal	kilograms	1 146	670	969	1 220	1 338
Waste and scrap	kilograms	3 940	3 568	4 127	5 415	4 915
Graphite	tonnes	561	508	400	129	124
Gypsum						
Crude	tonnes	121 440	76 435	84 359	94 824	79 789
Calcined	tonnes	298 394	234 564	270 721	275 909	299 898
Iodine	kilograms	1 668 339	1 270 662	1 708 338	1 663 657	1 759 025
Iron ore	tonnes	151 503	134 167	148 809	127 127	92 702

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	11 198	10 639	1 498	10 709	9 749
Sponge and powder	tonnes	1 589	292	575	39 665	36 216
Ferro-chrome	tonnes	929	1 162	1 311	1 534	1 293
Ferro-manganese	tonnes	7 448	6 608	5 303	5 254	1 200
Ferro-silico-manganese	tonnes	1 960	1 186	548	0	2
Ferro-molybdenum	tonnes	81	103	121	172	133
Ferro-silicon	tonnes	13 502	9 097	10 615	9 595	5 383
Other ferro-alloys	tonnes	2 390	823	1 544	2 090	1 022
Silicon metal	tonnes	40 878	29 810	49 349	53 897	28 196
Ingots, blooms, billets	tonnes	167 309	59 344	4 733	5 411	5 977
Scrap	tonnes	96 427	91 114	108 802	138 814	210 426
Kaolin	tonnes	253 361	190 562	225 576	149 002	176 164
Lead						
Unwrought	tonnes	6 473	5 026	6 449	7 713	8 071
Magnesite and magnesia						
Magnesia	tonnes	5 989	4 904	10 987	8 714	9 795
Manganese						
Ores and concentrates	tonnes	1 232 799	525 674	1 121 716	1 085 383	1 072 991
Metal	tonnes	2 595	1 297	1 974	2 697	1 636
Mica						
Unmanufactured	tonnes	1 174	1 021	1 224	1 573	1 964
Ground	tonnes	1 243	1 140	1 179	294	285
Nickel						
Mattes, sinters etc	tonnes	178 502	153 437	170 365	199 173	190 275
Unwrought	tonnes	(c) 201	(c) 199	(c) 235	(c) 246	250
Crude petroleum	tonnes	828 709	1 225 514	1 508 241	1 238 531	1 305 413
Natural gas	tonnes	442	231	4 393	1 005	444
Phosphate rock	tonnes	682 369	403 098	9 638	6 499	—
Platinum metals						
Platinum and platinum metals	kilograms	1 072	1 005	1 425	1 430	758
Waste and scrap	kilograms	1 093	930	1 362	1 160	1 403
Potash						
Sulphate	tonnes	190 757	123 549	(a)* 99 000	(a)* 65 000	(a)* 27 782
Chloride	tonnes	349 459	199 385	(a)* 377 000	(a)* 354 000	(a)* 395 133
Other potassic fertilisers	tonnes	674	509	612	287	320
Rare earths						
Metals	tonnes	341	24	148	552	438
Cerium compounds	tonnes	7	9	1	13	3
Other rare earth compounds	tonnes	1	0	8	9	9
Salt	tonnes	1 075 905	959 630	1 042 489	1 106 066	1 052 197
Sillimanite minerals	tonnes	2 702	4 359	3 456	3 208	3 626
Silver						
Ores and concentrates (a)	kilograms	* 200	* 5 700	* 1 100	* 700	* 4 700
Metal	kilograms	67 398	47 040	57 422	49 727	47 768
Sulphur and pyrites						
Sulphur	tonnes	4 690	3 102	2 897	3 051	2 725
Sulphur, sublimed and precipitated	tonnes	12 932	12 127	11 515	11 627	12 685
Talc	tonnes	8 020	6 517	8 356	8 364	8 374
Titanium						
Titanium minerals	tonnes	73 307	29 809	45 018	25 003	...
Metal	tonnes	937	389	412	723	890
Oxides	tonnes	12 241	8 209	10 115	10 376	8 093
Zinc						
Ores and concentrates	tonnes	243 213	209 649	228 828	250 537	260 442
Unwrought (c)	tonnes	3 286	1 612	1 376	1 013	2 313

Note(s)

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

(b) Excludes coal imported from Spitzbergen

(c) Including alloys

Poland

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel (a)	tonnes	* 149 312 000	* 141 114 000	* 157 236 000	* 176 000 000	* 145 000 000
Crushed rock	tonnes	49 475 400	58 245 900	62 886 200	88 696 900	64 859 600
Primary aluminium	tonnes	31 000	—	—	—	—
Barytes	tonnes	308	—	—	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	3 000	2 800	2 000	900	800
Cadmium	tonnes	603	534	451	526	370
Cement						
Cement, clinker	tonnes	12 443 103	10 659 214	11 767 782	13 629 500	11 807 300
Cement, finished	tonnes	17 206 735	15 536 984	15 756 000	18 929 000	15 918 614
Coal						
Bituminous	tonnes	84 345 443	78 064 462	76 727 802	76 447 604	79 854 904
Lignite	tonnes	59 668 166	57 108 304	56 510 125	62 841 269	64 279 772
Copper, mine	tonnes (metal content)	429 687	439 365	425 725	426 665	427 064
Copper, smelter	tonnes	492 942	457 510	469 656	481 875	466 715
Copper, refined	tonnes	526 808	502 462	547 074	571 041	565 834
Diatomite	tonnes	600	670	1 000	580	600
Feldspar	tonnes	599 100	445 500	513 700	538 800	487 200
Gold (b)	kilograms (metal content)	902	814	776	704	916
Gypsum (c)	tonnes	1 499 901	1 326 928	1 398 500	1 225 600	1 227 900
Pig iron	tonnes	4 933 781	2 983 500	3 637 995	3 974 930	3 943 968
Crude steel	tonnes	9 727 325	7 128 482	7 993 025	8 776 458	8 539 302
Ferro-alloys						
Ferro-manganese	tonnes	8 475	1 736	800	800	800
Ferro-silico-manganese	tonnes	25 061	72	100	400	200
Ferro-silicon	tonnes	56 031	9 673	53 206	72 668	79 400
Other ferro-alloys	tonnes	2 948	4 190	200	300	300
Kaolin (d)	tonnes	165 615	136 561	125 000	163 600	137 800
Lead, mine	tonnes (metal content)	67 070	62 910	48 050	40 492	73 231
Lead, refined	tonnes	108 300	100 400	120 300	135 500	141 000
Magnesite	tonnes	60 000	47 000	63 000	75 350	84 000
Crude petroleum	tonnes	754 907	686 992	686 487	618 163	677 664
Natural gas	million m ³	5 382	5 537	5 666	5 921	5 871
Platinum metals						
Platinum	kilograms (metal content)	30	30	30	* 30	* 30
Palladium	kilograms (metal content)	20	20	20	* 20	* 20
Rhenium	tonnes	5	4	4	5	* 5
Salt						
Rock salt	tonnes	618 111	988 545	1 221 700	1 254 000	793 000
Brine salt	tonnes	2 783 198	2 533 413	2 464 363	2 633 300	2 732 200
Other salt	tonnes	706 618	763 385	763 515	768 000	724 000
Selenium metal	tonnes	82	80	79	85	90
Silver	kilograms (metal content)	1 221 000	1 221 000	1 183 000	1 167 000	1 149 000
Sulphur and pyrites						
Frasch	tonnes (sulphur content)	762 119	262 769	516 742	657 100	676 500
Recovered (e)	tonnes (sulphur content)	294 000	257 000	253 000	310 500	* 300 000
Recovered (f)	tonnes (sulphur content)	215 000	214 382	250 075	259 000	285 000
Zinc, mine	tonnes (metal content)	132 400	115 500	107 700	87 200	76 700
Slab zinc	tonnes	142 600	139 100	135 000	144 100	138 300

Note(s)

(1) Poland is also believed to produce strontium minerals

(a) Includes an estimate for small producers

(b) Metal production

(c) Including anhydrite

(d) Washed

(e) From metal sulphide processing

(f) From petroleum refining and/or natural gas

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 237 976	902 193	1 031 013	1 058 307	962 169
Aluminium and bauxite						
Bauxite	tonnes	536	833	448	8 546	—
Unwrought (a)	tonnes	82 242	66 065	103 803	111 421	118 356
Scrap	tonnes	123 468	102 757	123 503	130 472	155 032
Antimony						
Metal	tonnes	25	65	27	47	40
Bentonite and fuller's earth						
Bentonite	tonnes	20 384	23 918	21 987	25 050	23 563
Bromine	kilograms	5 000	5 500	9 800	7 100	3 600
Cadmium						
Metal	tonnes	558	590	484	579	388
Cement						
Cement clinkers	tonnes	163 902	127 806	89 692	46 295	99 977
Portland cement	tonnes	314 733	405 940	415 187	358 847	303 667
Other cement	tonnes	78 349	35 305	22 984	17 523	28 200
Chromium						
Ores and concentrates	tonnes	66	107	425	3 604	536
Metal	tonnes	1 465	861	7 948	7 135	2 977
Coal						
Anthracite	tonnes	16 173	5 282	41 908	43 370	37 906
Other coal	tonnes	7 775 799	8 368 190	10 323 041	676 364	5 257 817
Lignite	tonnes	1 009	68 273	116 682	145 063	133 531
Briquettes	tonnes	71	363	2 114	15 992	1 676
Cobalt						
Oxides	tonnes	24	64	8	3	2
Copper						
Matte and cement	tonnes	2 989	1 515	956	1 567	1 306
Unwrought	tonnes	296 738	325 395	332 989	327 585	333 648
Scrap	tonnes	63 779	64 606	68 686	60 544	49 128
Unwrought alloys	tonnes	5 469	2 358	1 180	1 260	2 571
Diatomite	tonnes	277	85	111	788	3 012
Feldspar	tonnes	2 049	1 829	3 050	3 012	1 376
Gold						
Metal	kilograms	105 000	121 100	1 100	3 000	12 300
Waste and scrap	kilograms	4 800	18 000	588	26	1 000
Graphite	tonnes	82	80	233	505	977
Gypsum						
Crude and calcined	tonnes	58 644	40 512	47 654	121 689	111 389
Iodine	kilograms	5 100	5 100	16 400	4 000	3 700
Iron ore	tonnes	10 198	14 893	16 130	4 400	1 573
Iron, steel and ferro-alloys						
Pig iron	tonnes	5 189	10 543	17 340	21 122	79 889
Sponge and powder	tonnes	3 838	4 448	5 293	16 519	7 185
Ferro-manganese and ferro-silico-manganese	tonnes	37 978	21 640	10 113	3 284	5 844
Ferro-silicon	tonnes	52 976	16 401	59 845	76 121	72 741
Other ferro-alloys	tonnes	2 932	2 655	7 452	8 135	4 919
Silicon metal	tonnes	893	1 033	845	1 390	1 674
Ingots, blooms, billets	tonnes	1 580 450	664 035	490 919	846 908	618 682
Scrap	tonnes	1 368 952	978 862	1 334 069	1 838 699	1 955 438
Kaolin	tonnes	8 936	11 515	9 781	13 591	12 366
Lead						
Ores and concentrates	tonnes	69 852	59 790	35 459	30 132	60 549
Unwrought	tonnes	40 017	48 599	43 945	59 599	62 941
Scrap	tonnes	1 110	1 525	1 668	1 010	1 392
Magnesite and magnesite						
Magnesite	tonnes	51	474	66	101	79
Magnesia	tonnes	1 870	250	1 013	550	3 303
Manganese						
Metal	tonnes	35	603	2 875	41	97
Mercury	kilograms	17 700	46 200	106 100	7 300	—

Poland

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Nickel						
Mattes, sinters etc	tonnes	...	1 443	1 134	—	—
Scrap	tonnes	647	260	416	749	709
Unwrought (a)	tonnes	334	172	1 876	252	917
Oxides	tonnes	759	260	38	29	5
Crude petroleum	tonnes	34 871	17 227	3	186 730	211 223
Platinum metals						
Platinum and platinum metals	kilograms	7 275	47 400	1 100	2 400	400
Waste and scrap	kilograms	7 399	1 600	300	3 400	63 900
Potash						
Potassic fertilisers	tonnes	9 222	13 279	10 687	10 078	3 999
Rare earths						
Cerium compounds	tonnes	8	4	7	86	1
Other rare earth compounds	tonnes	22	—	4	66	3
Salt	tonnes	361 691	503 899	572 595	515 723	393 235
Silver						
Metal	kilograms	1 121 900	1 265 200	1 281 800	1 328 900	1 378 800
Sulphur and pyrites						
Sulphur	tonnes	446 202	152 484	402 102	394 861	506 641
Sulphur, sublimed and precipitated	tonnes	27 041	29 540	34 752	26 542	29 757
Talc	tonnes	829	793	869	744	830
Tin						
Unwrought (a)	tonnes	355	279	408	536	533
Titanium						
Metal	tonnes	117	105	76	90	47
Oxides	tonnes	21 509	20 937	20 996	23 401	20 201
Tungsten						
Metal	tonnes	143	136	154	179	89
Zinc						
Ores and concentrates	tonnes	58 035	45 877	4 213	0	0
Unwrought	tonnes	83 571	84 833	96 142	105 552	105 929
Unwrought alloys	tonnes	3 606	4 699	6 280	6 939	6 541
Scrap	tonnes	430	1 617	902	960	533

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	5 868 908	5 349 230	5 014 564	9 022 494	5 766 695
Aluminium and bauxite						
Bauxite	tonnes	59 907	49 033	48 664	45 672	51 430
Alumina	tonnes	126 143	27 626	29 920	34 691	35 709
Alumina hydrate	tonnes	25 334	23 083	31 406	26 536	25 912
Unwrought	tonnes	71 563	67 561	125 567	125 147	112 325
Unwrought alloys	tonnes	195 072	144 983	192 393	232 859	245 491
Scrap	tonnes	67 176	67 408	84 622	98 484	108 168
Antimony						
Metal	tonnes	52	71	47	68	62
Oxide	tonnes	1 086	1 034	1 044	1 026	949
Arsenic						
Metallic arsenic	tonnes	42	20	42	45	44
Asbestos						
Unmanufactured	tonnes	...	35	—	...	...
Barytes	tonnes	14 334	8 349	11 758	15 723	21 567
Bentonite and fuller's earth						
Bentonite	tonnes	171 633	122 165	155 173	212 585	233 200
Bismuth						
Metal	tonnes	25	20	34	23	24
Bromine	kilograms	10 600	6 100	17 200	11 200	66 300

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Cement						
Cement clinkers	tonnes	127 428	35 106	111 677	35 663	13 558
Portland cement	tonnes	680 447	421 822	565 893	932 507	695 629
Other cement	tonnes	29 529	21 466	26 247	25 467	21 027
Chromium						
Ores and concentrates	tonnes	36 646	12 728	15 672	30 863	27 723
Metal	tonnes	2 137	679	103	4 533	78
Coal						
Anthracite	tonnes	553 152	310 290	583 158	582 605	407 120
Other coal	tonnes	9 531 959	10 362 090	13 127 065	14 090 331	9 652 129
Lignite	tonnes	18 057	30 307	35 973	67 550	134 135
Briquettes	tonnes	10 960	25 788	60 548	60 758	53 873
Cobalt						
Metal	tonnes	51	53	52	47	52
Oxides	tonnes	30	15	18	114	17
Copper						
Ores and concentrates	tonnes	62 443	78 027	38 000	45 484	41 333
Unwrought, unrefined	tonnes	33 376	40 030	33 717	23 581	22 766
Unwrought, refined	tonnes	6 629	13 838	26 944	11 822	19 234
Unwrought alloys	tonnes	3 012	2 408	2 813	2 939	4 229
Scrap	tonnes	19 269	22 153	24 316	26 201	53 828
Diamond						
Gem, cut	Carats	£4 686 000	£2 509 000	£2 128 000	£3 805 000	£2 532 000
Industrial	Carats	237 903	169 851	35 260	16 703	* 8 300
Dust	Carats	£334 000	£196 000	£179 000	£273 000	£376 000
Diatomite	tonnes	9 504	9 790	6 753	9 365	7 802
Feldspar	tonnes	243 798	176 717	243 645	324 426	287 882
Fluorspar	tonnes	8 691	8 562	11 013	12 239	11 747
Gold						
Metal	kilograms	3 800	100	200	1 500	1 800
Graphite	tonnes	4 474	3 078	6 933	10 267	6 833
Gypsum						
Crude	tonnes	170 571	157 974	129 336	134 230	122 407
Calcined	tonnes	215 458	82 586	53 613	47 261	39 845
Iodine	kilograms	24 100	10 600	21 700	11 600	12 900
Iron ore	tonnes	(a) 7 784 529	(a) 3 752 010	6 494 457	5 977 338	6 576 287
Iron, steel and ferro-alloys						
Pig iron	tonnes	236 682	156 970	176 145	228 357	200 340
Sponge and powder	tonnes	8 390	4 677	7 594	14 597	7 336
Ferro-chrome	tonnes	13 713	6 064	7 785	8 042	9 413
Ferro-silico-magnesium	tonnes	4 116	2 366	3 402	2 326	1 752
Ferro-manganese	tonnes	31 876	32 935	30 721	45 192	31 083
Ferro-silico-manganese	tonnes	47 964	71 585	56 882	65 816	60 667
Ferro-molybdenum	tonnes	1 554	711	612	547	470
Ferro-niobium	tonnes	231	244	395	279	379
Ferro-phosphorus	tonnes	1 386	675	917	1 253	1 183
Ferro-silicon	tonnes	20 424	16 132	21 576	18 457	15 818
Ferro-titanium and ferro-silico-titanium	tonnes	210	117	194	259	291
Ferro-vanadium	tonnes	418	313	370	10	447
Other ferro-alloys	tonnes	4 236	3 096	4 355	5 856	6 658
Silicon metal	tonnes	11 652	11 839	16 219	17 091	17 754
Ingots, blooms, billets	tonnes	584 305	157 799	119 466	370 144	575 506
Scrap	tonnes	465 978	596 733	374 076	409 454	383 472
Kaolin	tonnes	126 426	90 183	117 914	143 476	138 026
Lead						
Unwrought	tonnes	35 465	29 861	46 810	52 011	42 108
Scrap	tonnes	2 467	2 293	7 154	6 673	4 980
Lithium						
Oxides	tonnes	61	86	86	114	141
Carbonate	tonnes	162	137	175	177	177
Magnesite and magnesia						
Magnesite	tonnes	216	2 658	3 966	1 375	1 948
Magnesia	tonnes	109 646	81 304	113 757	137 148	116 632
Manganese						
Ores and concentrates	tonnes	54 087	1 930	4 345	4 509	4 951
Metal	tonnes	716	507	1 514	436	764
Mercury	kilograms	13 300	10 900	4 300	39 900	13 700

Poland

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Mica	tonnes	880	1 134	1 150	2 019	1 504
Molybdenum						
Metal	tonnes	843	281	889	1 292	72
Oxides	tonnes	71	80	162	198	237
Nickel						
Mattes, sinters etc	tonnes	...	1 468	1 223	7	—
Unwrought (b)	tonnes	3 398	1 353	3 350	2 722	3 189
Oxides	tonnes	44	34	38	28	263
Scrap	tonnes	3 683	2 122	341	603	325
Crude petroleum	tonnes	20 949 949	19 959 321	22 009 801	22 870 416	24 629 744
Phosphate rock	tonnes	1 448 780	458 923	1 299 106	1 434 124	1 237 885
Platinum metals						
Platinum and platinum metals	kilograms	16 900	31 300	5 100	2 700	1 800
Potash						
Sulphate	tonnes	19 161	10 919	19 155	23 281	23 883
Chloride	tonnes	815 282	194 900	757 987	769 256	779 023
Other potassic fertilisers	tonnes	7 143	3 470	4 442	10 317	11 544
Rare earths						
Metals	tonnes	—	2	5	0	2
Cerium compounds	tonnes	148	43	134	101	68
Other rare earth compounds	tonnes	58	16	48	32	13
Salt	tonnes	356 929	483 243	886 294	1 052 650	451 619
Sillimanite minerals						
Sillimanite minerals	tonnes	16 975	7 852	17 956	13 791	17 567
Mullite	tonnes	3 728	1 040	2 109	2 817	2 757
Silver						
Metal	kilograms	95 200	122 900	106 700	78 600	82 800
Sulphur and pyrites						
Pyrites	tonnes	5 768	813	1 866	1 255	1 480
Sulphur	tonnes	104 300	35 350	44 939	53 828	30 488
Sulphur, sublimed and precipitated	tonnes	105	978	164	387	6
Talc	tonnes	28 186	18 325	23 331	26 212	26 430
Tantalum and niobium						
Tantalum	tonnes	52	1	3	1	—
Tin						
Concentrates	tonnes	...	220	98	...	...
Unwrought (b)	tonnes	1 857	1 102	1 317	1 579	1 281
Scrap	tonnes	1 038	1 664	1 605	2 790	3 689
Titanium						
Titanium minerals	tonnes	91 208	84 396	105 384	99 055	84 143
Metal	tonnes	451	264	616	2 020	329
Oxides	tonnes	41 019	42 031	46 110	54 770	44 098
Tungsten						
Metal	tonnes	103	87	124	96	69
Zinc						
Ores and concentrates	tonnes	150 283	130 258	115 561	97 225	178 780
Unwrought	tonnes	26 811	18 498	53 983	49 569	47 314
Unwrought alloys	tonnes	11 906	8 922	7 610	10 045	11 622
Scrap	tonnes	6 378	3 907	7 188	10 421	11 060
Zirconium						
Concentrates	tonnes	833	340	648	488	670

Note(s)

(a) Including burnt pyrites

(b) Including alloys

Portugal

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	10 182 146	9 190 603	8 650 274	7 664 172	* 7 000 000
Crushed rock	tonnes	58 431 483	56 337 535	50 622 585	* 48 473 258	* 45 000 000
Arsenic	tonnes	* 15	* 15	* 15	* 15	* 15
Barytes	tonnes	171	1 078	15	—	—
Cement						
Cement, clinker (a)	tonnes	1 749 406	1 513 558	1 948 137	1 094 218	* 1 000 000
Cement, finished (a)	tonnes	8 405 420	6 862 969	6 665 585	6 072 751	5 481 454
Copper, mine	tonnes (metal content)	89 026	86 462	74 011	79 686	74 043
Feldspar	tonnes	230 427	210 266	169 722	187 159	167 287
Gypsum	tonnes	372 731	335 189	336 755	337 272	264 427
Crude steel	tonnes	1 630 000	1 557 000	1 504 000	1 871 000	1 908 000
Kaolin	tonnes	217 434	274 925	273 890	322 041	317 489
Lead, mine	tonnes (metal content)	—	—	—	—	87
Lead, refined	tonnes	5 000	4 000	4 000	4 000	5 000
Lithium						
Lepidolite	tonnes	34 888	37 359	40 109	37 534	20 698
Salt						
Rock salt	tonnes	606 545	594 578	618 961	631 295	520 284
Sea salt	tonnes	69 249	72 325	44 574	47 267	88 693
Silver	kilograms (metal content)	26 273	20 483	20 561	28 027	29 890
Talc	tonnes	11 657	11 567	11 981	15 462	15 131
Tin	tonnes (metal content)	29	34	22	39	42
Tungsten (b)	tonnes (metal content)	981	823	799	818	763
Zinc, mine	tonnes (metal content)	37 900	501	6 422	4 227	30 006

Note(s)

(1) Portugal is also believed to produce sulphur

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

(a) Sales

(b) Wolframite and scheelite

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	44 174	101 421	67 505	120 946	71 399
Aluminium and bauxite						
Unwrought alloys	tonnes	127 150	90 869	102 856	59 056	40 526
Scrap	tonnes	40 020	32 481	51 888	45 775	52 782
Antimony						
Metal	tonnes	60	119	138	70	277
Bentonite and fuller's earth						
Bentonite	tonnes	1 608	691	1 175	1 356	1 935
Cement						
Cement clinkers	tonnes	1 448 397	1 553 992	1 888 362	916 431	994 099
Portland cement	tonnes	1 102 589	758 854	996 778	1 345 607	2 000 541
Other cement	tonnes	11 139	15 231	10 440	8 111	40 461
Coal						
Anthracite	tonnes	9 382	4 409	7 136	7 405	11 385
Copper						
Ores and concentrates	tonnes	375 755	371 881	305 485	327 096	312 192
Unwrought	tonnes	600	2 098	1 887	9 969	8 425
Scrap	tonnes	22 184	20 213	24 491	36 151	41 285
Diamond						
Gem, cut	Carats	£55 000	£52 000	£550	£61 000	£136 000
Industrial	Carats	...	1 500 000	3 500 000	1 000 000	1 500 000
Dust	Carats	—	10 000	92 107	788 459	1 000 000
Diatomite	tonnes	554	473	7 545	7 299	11 538

Portugal

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Feldspar	tonnes	873	1 290	2 190	3 197	17 482
Gold						
Metal	kilograms	...	—	6 600	13 100	17 000
Waste and scrap	kilograms	36 100	800	800	100	457 000
Gypsum						
Crude and calcined	tonnes	22 707	12 394	20 016	47 278	56 546
Iron, steel and ferro-alloys						
Pig iron	tonnes	1	51	18 502	21 606	18 330
Ferro-alloys	tonnes	546	255	1 746	2 392	793
Ingots, blooms, billets	tonnes	164 425	136 284	172 983	119 353	54 844
Scrap	tonnes	172 133	216 037	303 013	239 842	236 115
Kaolin	tonnes	47 562	51 014	31 390	102 721	122 029
Lead						
Unwrought	tonnes	4 950	6 647	8 785	8 050	5 124
Scrap	tonnes	3 105	2 222	1 710	1 855	1 363
Magnesite and magnesia						
Magnesite	tonnes	0	...	11	1	716
Magnesia	tonnes	...	10	4	1	528
Mercury	kilograms	300	—	200	6 700	25 600
Natural gas	tonnes	890 688	254 997	389 309	875	58 753
Platinum metals						
Waste and scrap	kilograms	...	—	...	15 100	3 200
Potash						
Potassic fertilisers	tonnes	240	402	612	895	3 901
Salt	tonnes	13 412	15 662	31 022	31 304	37 302
Silver						
Ores and concentrates	kilograms	13 500	11 500	12 300	16 300	15 100
Metal	kilograms	7 876	580	3 400	10 600	40 600
Sulphur and pyrites						
Sulphur	tonnes	7 539	5 737	6 164	9 737	7 065
Talc	tonnes	3 841	2 699	4 316	2 526	2 224
Tantalum and niobium						
Tantalum	tonnes	48	49	98	81	50
Tin						
Unwrought	tonnes	—	250	—	31	4
Scrap	tonnes	147	9	43	82	200
Titanium						
Oxides	tonnes	1 189	1 166	1 091	3 422	5 322
Tungsten						
Ores and concentrates	tonnes	1 705	1 407	1 289	1 324	1 325
Metal	tonnes	17	20	6	131	51
Zinc						
Ores and concentrates	tonnes	75 414	371	7 438	2 201	67 881
Unwrought (a)	tonnes	1 307	849	151	734	1 723
Scrap	tonnes	2 910	1 646	940	755	5 736

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	194 088	175 576	224 514	255 625	242 987
Aluminium and bauxite						
Alumina	tonnes	9 750	13 742	14 862	8 762	8 863
Unwrought	tonnes	17 732	15 200	20 152	18 744	17 371
Unwrought alloys	tonnes	214 614	149 759	170 057	113 150	96 190
Scrap	tonnes	2 409	15 819	10 183	5 305	7 409
Antimony						
Oxide	tonnes	161	146	240	184	239
Barytes	tonnes	3 806	3 744	4 448	2 509	2 286
Bentonite and fuller's earth						
Bentonite	tonnes	20 304	12 788	18 205	23 436	26 466
Cement						
Cement clinkers	tonnes	196 929	24 156	24 143	3 238	6 011
Portland cement	tonnes	22 862	150 065	186 170	134 000	169 109
Other cement	tonnes	8 842	11 072	11 771	5 043	5 293
Chromium						
Ores and concentrates	tonnes	5 369	2 361	2 108	2 727	2 639
Coal						
Anthracite	tonnes	48 793	28 472	21 454	30 860	42 657
Other coal	tonnes	3 721 513	4 922 698	2 648 704	3 592 502	4 999 817
Copper						
Unwrought	tonnes	1 204	4 027	5 534	4 725	4 688
Unwrought alloys	tonnes	4 330	4 453	4 127	4 378	3 993
Scrap	tonnes	10 229	7 550	8 819	7 973	5 169
Diamond						
Gem, cut	Carats	£3 949 000	£1 756 000	£2 039 000	£3 732 000	£2 906 000
Industrial	Carats	£296 000	£246 000	£111 000	£122 000	£86 000
Dust	Carats	5 891 661	5 514 973	10 117 653	16 401 864	5 595 000
Diatomite	tonnes	1 372	1 127	2 284	2 340	2 242
Feldspar	tonnes	85 400	72 275	63 675	49 902	61 516
Fluorspar	tonnes	1 828	2 243	636	794	3 005
Gold						
Metal	kilograms	1 535	1 077	1 500	1 200	800
Waste and scrap	kilograms	...	...	...	1 405	121 743
Graphite	tonnes	1 493	73	66	62	35
Gypsum						
Crude	tonnes	89 627	81 971	73 822	40 153	28 175
Calcined	tonnes	298 708	244 809	270 783	237 788	167 437
Iodine	kilograms	100	8 000	8 700	8 600	6 300
Iron, steel and ferro-alloys						
Pig iron	tonnes	13 824	7 507	10 623	4 980	1 895
Sponge and powder	tonnes	740	38 849	6 919	37 376	27 383
Ferro-chrome	tonnes	1 093	245	810	683	617
Ferro-silico-magnesium	tonnes	1 318	1 104	1 475	470	79
Ferro-manganese	tonnes	908	762	856	722	683
Ferro-silico-manganese	tonnes	10 063	9 921	3 820	4 836	14 765
Ferro-silicon	tonnes	3 479	3 707	2 902	3 408	3 130
Other ferro-alloys	tonnes	5 303	3 516	657	2 611	4 500
Silicon metal	tonnes	187	410	753	950	1 182
Ingots, blooms, billets	tonnes	26 532	53 089	28 583	33 675	33 266
Scrap	tonnes	1 128 391	887 110	672 856	616 063	1 165 785
Kaolin	tonnes	114 041	73 081	96 851	106 955	103 863
Lead						
Unwrought	tonnes	12 014	6 642	5 593	9 403	8 661
Scrap	tonnes	423	258	395	266	1 113
Magnesite and magnesia						
Magnesite	tonnes	1 521	697	1 162	1 379	1 249
Magnesia	tonnes	5 863	8 538	4 504	5 523	7 130
Manganese						
Ores and concentrates	tonnes	765	13	68	56	168
Mercury	kilograms	7 500	25 100	152 900	125 400	59
Mica	tonnes	125	139	284	288	258
Nickel						
Unwrought	tonnes	524	316	312	221	285
Crude petroleum	tonnes	12 050 226	10 193 366	11 251 958	10 152 747	11 456 025
Natural gas	tonnes	4 188 706	3 770 943	3 849 819	3 543 064	3 231 198

Portugal

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Phosphate rock	tonnes	90 667	44 189	93 348	91 703	105 186
Platinum metals						
Platinum and platinum metals	kilograms	308	146	796	100	—
Potash						
Sulphate	tonnes	1 869	1 574	3 840	4 405	10 798
Chloride	tonnes	38 200	25 525	50 687	65 352	82 364
Other potassic fertilisers	tonnes	1 708	5 389	1 899	2 596	5 395
Rare earths						
Metals	tonnes	0	...	1	87	—
Cerium compounds	tonnes	15	11	7	8	15
Other rare earth compounds	tonnes	7	2	5	18	3
Salt	tonnes	94 501	108 161	172 107	144 688	182 585
Sillimanite minerals	tonnes	646	573	466	641	2 241
Silver						
Metal	kilograms	22 678	18 602	66 900	38 700	22 200
Sulphur and pyrites						
Sulphur	tonnes	2 852	3 366	4 861	3 981	2 726
Talc	tonnes	26 774	18 537	24 143	22 388	11 746
Tantalum and niobium						
Tantalum	tonnes	83	22	41	44	33
Tin						
Unwrought	tonnes	487	308	317	560	435
Unwrought alloys	tonnes	130	103	100	19	13
Titanium						
Titanium minerals	tonnes	263	358	714	807	429
Oxides	tonnes	18 800	18 456	20 486	19 813	14 788
Tungsten						
Metal	tonnes	251	193	277	206	151
Carbide	tonnes	169	46	110	106	79
Zinc						
Unwrought	tonnes	19 551	12 830	15 757	13 299	11 135
Unwrought alloys	tonnes	4 617	4 018	4 522	3 967	4 601
Zirconium						
Concentrates	tonnes	8 162	5 620	5 475	4 048	2 386

Romania

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	31 377 110	23 199 337	22 085 231	25 319 433	21 068 344
Crushed rock	tonnes	4 635 010	4 835 584	3 774 309	6 189 078	5 593 429
Alumina	tonnes (Al ₂ O ₃ content)	344	44 000	414 000	484 000	414 000
Primary aluminium	tonnes	288 156	228 630	241 000	261 000	248 000
Bentonite and fuller's earth						
Bentonite	tonnes	16 638	13 756	21 637	19 864	19 241
Cement						
Cement, clinker	tonnes	111 719	—	—	33 363	84 853
Cement, finished	tonnes	10 461 456	7 897 656	6 867 596	7 646 612	7 727 046
Coal						
Anthracite and bituminous	tonnes	—	—	—	2 121 574	1 876 062
Lignite	tonnes	34 529 000	28 460 152	28 774 244	33 779 130	31 529 377
Brown coal	tonnes	205 000	63 458	62 448	46 071	17 700
Copper, mine	tonnes (metal content)	308	3 129	5 127	6 355	5 902
Copper, refined	tonnes	15 300	4 600	—	—	—
Feldspar	tonnes	22 995	14 317	6 049	3 814	4 112
Gold	kilograms (metal content)	500	* 500	* 500	* 500	* 500
Graphite	tonnes	—	24 352	6 633	—	—
Gypsum	tonnes	832 248	720 713	639 010	* 660 000	* 600 000
Pig iron	tonnes	2 957 715	1 576 679	1 723 418	1 595 000	1 580 000
Crude steel	tonnes	5 035 164	2 772 679	3 720 775	3 835 000	3 780 000
Ferro-alloys						
Ferro-chrome	tonnes	6 179	15 377	14 353	—	—
Ferro-silico-manganese	tonnes	9 979	—	20 605	* 30 000	* 30 000
Kaolin	tonnes	3 060	651	326	—	—
Lead, mine	tonnes (metal content)	—	* 3 000	* 3 000	* 3 000	* 5 500
Lead, refined	tonnes	39 596	8 687	11 263	6 854	* 13 000
Manganese ore	tonnes	43 590	20 304	13 120	3 180	8 993
Crude petroleum	tonnes	4 528 000	4 388 940	4 172 411	4 081 979	3 992 011
Natural gas	million m ³	11 520	11 273	11 138	11 164	11 095
Salt	tonnes	2 526 774	2 072 744	2 388 357	2 248 940	1 888 516
Silver	kilograms (metal content)	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Talc	tonnes	1 843	570	296	131	13
Uranium, mine	tonnes (metal content)	* 77	* 75	* 77	* 77	* 90
Zinc, mine	tonnes (metal content)	14	* 3 000	* 7 700	* 9 000	* 8 400
Slab zinc	tonnes	61 978	1 000	—	—	—

Note(s)

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

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	60 190	160 241	360 161	255 970	438 328
Aluminium and bauxite						
Bauxite	tonnes	526	161	1 513	2 318	5 274
Alumina	tonnes	0	99	25 559	38 406	29 070
Unwrought	tonnes	61 638	50 496	10 312	14 004	6 074
Unwrought alloys	tonnes	6 690	5 898	51 556	70 697	83 687
Scrap	tonnes	16 021	20 775	17 733	12 801	14 200
Barytes	tonnes	...	1 812	258	2 009	1 326
Cement						
Cement clinkers	tonnes	111 719	182	265	24 810	84 874
Portland cement	tonnes	7 449	17 869	20 039	278 795	333 946
Other cement	tonnes	51	155	214	16 310	16 668
Coal						
Hard coal	tonnes	(a) 5 331	(a) 19 771	(a) 73 002	35 712	19 701
Copper						
Ores and concentrates	tonnes	33 391	6 711	31 582	39 704	41 879
Matte and cement	tonnes	8 494	4 502	956	186	379
Unwrought	tonnes	153	601	797	308	1 603
Scrap	tonnes	39 733	42 148	49 248	54 536	51 844
Feldspar	tonnes	16 438	8 375	1	283	260
Gypsum						
Crude and calcined	tonnes	13 069	17 966	17 672	15 576	15 693
Iron ore						
Iron ore	tonnes	42 606	172 372	1 718	2 728	53 998
Burnt pyrites	tonnes	15 567	12 694	1 359	1 690	2 887
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	18 697	18 807	24 454	29 320	25 038
Ferro-chrome	tonnes	161	3 543	14 234	10 996	8 577
Ferro-manganese	tonnes	701	1 801	45	26	195
Ferro-silico-manganese	tonnes	5 793	8 120	19 087	34 387	4 171
Ferro-niobium	tonnes	123	72	53	66	136
Ferro-silicon	tonnes	444	727	24	0	—
Other ferro-alloys	tonnes	197	130	223	101	1 716
Ingots, blooms, billets	tonnes	220 136	51 644	196 302	267 543	199 986
Scrap	tonnes	1 985 977	2 565 443	2 519 237	2 348 565	1 908 069
Lead						
Ores and concentrates	tonnes	17 396	15 759	9 096	5 952	11 051
Unwrought	tonnes	22 752	9 049	10 573	18 722	18 859
Scrap	tonnes	2 997	2 526	5 659	6 846	5 419
Magnesite and magnesia						
Magnesia	tonnes	440	381	460	212	412
Manganese						
Metal	tonnes	6 666	—	—	—	102
Nickel						
Scrap	tonnes	1 397	1 089	816	561	66
Crude petroleum	tonnes	...	...	78 256	76 061	48 688
Salt	tonnes	486 040	372 501	790 530	712 657	635 801
Sulphur and pyrites						
Pyrites	tonnes	994	6 315	8	5	—
Sulphur	tonnes	59 030	49 052	55 961	58 437	54 016
Tin						
Unwrought (b)	tonnes	51	66	68	128	67
Titanium						
Metal	tonnes	2 469	541	960	550	375
Oxides	tonnes	150	560	310	498	536
Zinc						
Ores and concentrates	tonnes	503	24 528	15 375	17 592	16 745
Unwrought (b)	tonnes	59 395	8 004	657	776	454
Scrap	tonnes	442	1 615	711	597	672

Note(s)

(a) Including anthracite

(b) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	351 123	205 133	248 484	370 249	512 538
Aluminium and bauxite						
Bauxite	tonnes	45 527	104 404	1 277 587	1 271 274	1 297 303
Alumina	tonnes	487 304	353 846	1 928	15 037	2 554
Alumina hydrate	tonnes	17 822	7 996	10 412	5 768	2 841
Unwrought	tonnes	254	1 023	2 163	3 024	2 751
Unwrought alloys	tonnes	16 162	16 360	33 711	24 287	26 311
Scrap	tonnes	598	3 838	83 381	62 768	66 878
Antimony						
Metal	tonnes	30	36	61	43	9
Oxide	tonnes	153	87	88	120	163
Barytes	tonnes	25 475	8 351	8 501	15 598	16 874
Bentonite and fuller's earth						
Bentonite	tonnes	6 014	3 859	4 825	6 341	8 463
Bromine	kilograms	9 800	200	—	200	—
Cement						
Cement clinkers	tonnes	486 462	23 613	75 812	144 547	144 116
Portland cement	tonnes	538 259	296 687	307 977	239 373	240 469
Other cement	tonnes	32 765	15 779	22 004	21 297	18 626
Chromium						
Ores and concentrates	tonnes	77 546	705	7 054	1 637	2 288
Metal	tonnes	64	39	16	105	50
Coal						
Anthracite	tonnes	110 484	56 296	72 776	148 260	137 388
Other coal	tonnes	3 008 391	937 077	936 727	840 669	1 142 615
Lignite	tonnes	121 227	62 469	718	1 706	3 492
Briquettes	tonnes	148 890	102 372	96 428	197	197
Cobalt						
Oxides	tonnes	6	37	41	79	27
Copper						
Unwrought	tonnes	22 116	10 926	2 282	2 915	1 899
Scrap	tonnes	4 197	437	2 443	3 218	2 355
Diatomite	tonnes	3 798	2 477	2 269	2 459	1 827
Feldspar	tonnes	49 160	37 639	36 924	45 421	47 688
Fluorspar	tonnes	2 526	1 481	2 911	3 817	3 178
Graphite	tonnes	304	144	1 499	742	601
Gypsum						
Crude	tonnes	90 194	45 891	40 703	63 658	92 883
Calcined	tonnes	100 471	62 134	47 912	50 866	43 118
Iodine	kilograms	1 395	330	300	500	400
Iron ore						
Iron ore	tonnes	5 003 811	1 597 033	2 848 921	2 186 674	2 023 063
Burnt pyrites	tonnes	17 770	11 572	29 544	35 551	30 178
Iron, steel and ferro-alloys						
Pig iron	tonnes	37 889	61 027	111 702	48 365	58 954
Sponge and powder	tonnes	3 203	1 518	2 740	22 355	1 777
Ferro-chrome	tonnes	3 423	984	1 500	2 856	2 564
Ferro-silico-magnesium	tonnes	89	36	49	25	104
Ferro-manganese	tonnes	28 773	9 063	15 530	18 136	21 039
Ferro-silico-manganese	tonnes	17 919	11 461	19 151	24 215	19 093
Ferro-molybdenum	tonnes	212	177	274	315	420
Ferro-niobium	tonnes	273	61	55	132	177
Ferro-phosphorus	tonnes	227	188	217	154	119
Ferro-silicon	tonnes	13 190	4 998	9 859	9 602	10 392
Ferro-titanium and ferro-silico-titanium	tonnes	84	40	183	412	284
Ferro-vanadium	tonnes	125	57	153	166	166
Other ferro-alloys	tonnes	1 402	949	1 255	1 495	635
Silicon metal	tonnes	3 155	1 104	3 098	3 205	2 730
Ingots, blooms, billets	tonnes	757 551	109 046	458 742	771 167	328 843
Scrap	tonnes	17 886	4 204	5 501	8 416	49 468
Kaolin	tonnes	48 422	40 326	51 754	56 871	60 170
Lead						
Ores and concentrates	tonnes	27 055	5 889	7 052	9 420	463
Unwrought	tonnes	872	9 245	11 834	16 789	12 777
Magnesite and magnesite						
Magnesia	tonnes	13 003	7 427	10 389	13 391	11 402

Romania

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Manganese						
Ores and concentrates	tonnes	16 432	16	87 880	66 285	244
Metal	tonnes	646	527	220	588	415
Mercury	kilograms	2 325	415	18 149	19 500	4 200
Mica	tonnes	488	441	785	1 077	810
Molybdenum						
Ores and concentrates	tonnes	...	...	...	...	1 516
Nickel						
Unwrought (a)	tonnes	338	288	456	224	190
Crude petroleum	tonnes	8 419 364	6 893 956	5 821 640	5 451 662	5 127 631
Natural gas	tonnes	7 757 273	1 451 767	* 2 000 000	3 283 138	(b)* 2 000 000
Phosphate rock	tonnes	225 581	103 500	233 377	254 061	229 060
Potash						
Sulphate	tonnes	5 133	19 592	13 726	6 936	17 559
Chloride	tonnes	68 877	5 119	56 922	46 842	21 354
Other potassic fertilisers	tonnes	338	374	425	683	1 279
Rare earths						
Rare earth compounds	tonnes	6	5	5	1	2
Salt	tonnes	92 815	82 569	81 441	114 500	94 288
Silver						
Metal (b)	kilograms	* 9 400	* 8 800	* 27 500	* 8 100	* 15 900
Sulphur and pyrites						
Pyrites	tonnes	1 072	1	1	51	12
Sulphur	tonnes	2 390	1 884	2 561	2 965	6 246
Sulphur, sublimed and precipitated	tonnes	180	1 254	2 062	2 074	1 807
Talc	tonnes	1 971	1 105	2 099	2 248	2 593
Tin						
Unwrought (a)	tonnes	127	114	85	125	91
Titanium						
Titanium minerals	tonnes	2 171	1 513	2 095	5 393	1 354
Metal	tonnes	453	707	771	541	776
Oxides	tonnes	9 127	7 151	8 733	10 571	7 511
Tungsten						
Metal	tonnes	1 122	22	79	50	63
Zinc						
Ores and concentrates	tonnes	161 527	12	3	—	24
Unwrought (a)	tonnes	7 394	10 523	16 664	17 006	16 883
Scrap	tonnes	55	—	246	439	1 628
Zirconium						
Metal	tonnes	136	301	35	41	1

Note(s)

(a) Including alloys

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

Serbia

Production

Commodity	Units	2008	2009	2010	2011	2012
Coal						
Bituminous	tonnes	66 000	69 000	108 000	134 000	141 000
Lignite (a)	tonnes	(b) 31 332 000	38 070 579	37 562 840	40 467 132	37 707 017
Brown coal	tonnes	...	209 660	193 492	349 861	316 507
Copper, mine	tonnes (metal content)	17 600	19 400	22 500	25 800	32 205
Copper, smelter	tonnes	31 900	27 000	20 000	28 200	36 800
Copper, refined	tonnes	33 800	27 400	22 200	25 300	34 700
Feldspar	tonnes	* 200	149	253	23 586	19 927
Gold (c)	kilograms (metal content)	* 712	818	856	1 534	1 400
Pig iron	tonnes	1 582 000	964 607	1 158 628	1 197 693	318 651
Crude steel	tonnes	1 662 000	1 054 336	1 254 386	1 304 954	346 000
Kaolin	tonnes	398 917	163 616	76 197	90 472	69 487
Lead, mine	tonnes (metal content)	1 600	1 800	1 800	2 100	2 500
Crude petroleum	tonnes	636 383	663 005	865 499	1 020 490	1 124 794
Natural gas	million m ³	282	279	423	616	672
Platinum metals						
Platinum	kilograms (metal content)	—	12	—	—	6
Palladium	kilograms (metal content)	70	38	22	20	4
Salt	tonnes	30 115	28 782	30 816	23 334	16 506
Silver (d)	kilograms (metal content)	2 300	4 424	4 384	7 380	8 388
Zinc, mine	tonnes (metal content)	2 400	2 700	2 600	3 100	7 500

Note(s)

(1) Serbia is also believed to produce sulphur

(a) Excluding production in Kosovo

(b) Including brown coal

(c) Metal production

(d) Smelter and/or refinery production

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	323 034	334 517	127 309	497 637	485 266
Aluminium and bauxite						
Unwrought	tonnes	13 213	7 387	17 602	15 353	10 130
Scrap	tonnes	11 342	10 972	13 574	22 248	20 752
Asbestos						
Unmanufactured	tonnes	15	62	1	306	...
Bentonite and fuller's earth						
Bentonite	tonnes	5 066	5 107	4 823	11 903	2 972
Cement						
Cement clinkers	tonnes	385 154	66 309	...	...	...
Portland cement	tonnes	138 375	76 539	156 477	115 432	138 914
Other cement	tonnes	2 560	125	33	28	29
Coal						
Anthracite	tonnes	3 102	3 784	4 434	2 507	160
Other coal	tonnes	4 068	14 530	3 801	1 116	441
Lignite	tonnes	217 029	120 553	112 009	32 337	28 266
Briquettes	tonnes	5 333	630	8 724	573	53
Copper						
Ores and concentrates	tonnes	3 448	1 452	1 666	2 234	4 276
Matte and cement	tonnes	41	1 928	2 501	1 649	358
Unwrought	tonnes	4 421	4 328	10 921	9 544	15 612
Scrap	tonnes	7 637	7 920	12 286	9 991	10 496
Gold						
Metal	kilograms	302	3 278	93	78	141
Gypsum						
Crude and calcined	tonnes	2 230	617	16	40	19

Serbia

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	81 427	71 778	70 090	46 629	374 860
Ingots, blooms, billets	tonnes	632	46 587	20 547	111 080	187 578
Scrap	tonnes	345 813	328 763	416 713	357 778	372 846
Kaolin	tonnes	10 251	4 239	1 868	1 282	1 069
Lead						
Ores and concentrates	tonnes	11 763	9 133	10 265	13 981	13 479
Unwrought	tonnes	5 683	6 695	5 661	7 848	5 777
Magnesite and magnesite						
Magnesite	tonnes	412	242	1 851	1 524	1 852
Magnesite	tonnes	446	319	328	5 831	8 704
Potash						
Potassic fertilisers	tonnes	245	163	690	3 672	3 546
Salt	tonnes	4 151	3 895	16 290	13 362	5 073
Silver						
Metal	kilograms	6 937	3 670	4 355	4 222	3 044
Sulphur and pyrites						
Sulphur	tonnes	4 424	1 451	2 335	3 571	2 760
Zinc						
Ores and concentrates	tonnes	21 140	10 699	14 921	23 247	22 559
Scrap	tonnes	63	330	120	67	907

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	17 616	12 664	15 910	8 759	9 907
Aluminium and bauxite						
Bauxite	tonnes	9 776	4 773	10 972	7 800	5 979
Alumina	tonnes	3 075	2 668	3 682	2 673	3 092
Unwrought	tonnes	54 765	36 626	54 512	51 717	51 578
Unwrought alloys	tonnes	18 753	12 913	13 600	15 834	14 446
Scrap	tonnes	5 399	4 411	8 404	6 870	7 209
Barytes	tonnes	111	0	421	1 494	3 468
Bentonite and fuller's earth						
Bentonite	tonnes	3 370	2 274	1 683	1 804	5 294
Cement						
Cement clinkers	tonnes	24 795	...	1 321	5 309	51 360
Portland cement	tonnes	62 283	41 744	52 582	92 665	194 728
Other cement	tonnes	1 124	1 003	728	784	664
Chromium						
Ores and concentrates	tonnes	519	436	641	725	211
Coal						
Anthracite	tonnes	10 500	10 752	18 056	16 456	13 988
Other coal	tonnes	326 808	89 731	156 846	183 713	178 984
Lignite	tonnes	249 563	276 033	307 250	615 026	716 035
Briquettes	tonnes	6 071	2 181	11 130	8 975	18 239
Copper						
Ores and concentrates	tonnes	55 655	33 808	...	3 063	0
Unwrought	tonnes	22 694	41 399	37 129	26 995	14 679
Diamond						
Dust	Carats	417 357	478 650	550 000	885 000	425 000
Feldspar	tonnes	15 131	8 424	10 139	11 864	11 302
Gypsum						
Crude	tonnes	21	13 273	14 601	22 546	32 566
Calcined	tonnes	18 733	11 684	9 276	9 962	9 096
Iodine	kilograms	4 494	4 030	8 137	10 876	2 790
Iron ore	tonnes	2 092 208	1 397 755	1 860 593	(a) 1 624 795	(a) 465 170

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 235	523	2 739	1 281	1 073
Sponge and powder	tonnes	5 154	122	217	187	89
Ferro-chrome	tonnes	1 167	1 104	1 272	1 884	1 327
Ferro-manganese	tonnes	12 329	8 571	9 524	9 270	2 299
Ferro-silico-manganese	tonnes	78	6	440	2 431	3 727
Ferro-silicon	tonnes	3 086	2 089	2 418	3 285	2 631
Other ferro-alloys	tonnes	491	275	324	357	219
Ingots, blooms, billets	tonnes	95 726	205 528	283 255	34 913	2 021
Scrap	tonnes	49 261	15 178	12 403	35 192	90 554
Kaolin	tonnes	65 704	32 091	50 421	38 810	25 922
Lead						
Ores and concentrates	tonnes	...	...	5 978	8 127	2 642
Unwrought	tonnes	2 871	4 493	6 018	5 302	9 163
Scrap	tonnes	...	0	1 228	2 643	2 087
Magnesite and magnesia						
Magnesia	tonnes	840	585	570	547	623
Manganese						
Ores and concentrates	tonnes	12 981	16 833	17 003	14 366	4 229
Metal	tonnes	233	180	324	317	254
Nickel						
Unwrought	tonnes	174	116	143	107	118
Crude petroleum	tonnes	2 585 294	2 280 658	1 869 881	1 497 415	1 091 762
Natural gas	tonnes	1 548 551	1 046 465	1 346 955	1 362 390	1 289 674
Phosphate rock	tonnes	102 441	3 974	20 394	60 024	85 674
Potash						
Chloride	tonnes	109 734	10 710	71 906	53 113	69 712
Salt	tonnes	152 207	144 711	204 395	274 636	246 280
Sulphur and pyrites						
Sulphur	tonnes	338	621	674	721	635
Talc	tonnes	1 733	1 236	1 616	1 270	1 432
Tin						
Unwrought	tonnes	83	49	60	72	148
Titanium						
Oxides	tonnes	4 548	3 892	3 888	4 498	3 960
Zinc						
Unwrought	tonnes	8 209	4 178	4 846	5 275	5 344

Note(s)

(a) Including burnt pyrites

Slovakia

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	7 517 655	6 919 826	6 931 873	6 020 641	3 794 873
Crushed rock	tonnes	16 345 800	15 233 400	14 909 400	9 855 157	8 064 817
Primary aluminium	tonnes	162 995	149 604	163 000	162 840	160 662
Asbestos	tonnes	200	—	—	—	—
Barytes	tonnes	20 000	30 000	17 000	13 000	21 000
Bentonite and fuller's earth						
Bentonite	tonnes	145 000	109 000	153 000	213 000	177 000
Cement						
Cement, clinker	tonnes	...	1 822 820	1 607 025	1 823 306	1 490 768
Cement, finished	tonnes	4 157 356	3 011 460	2 887 749	3 219 557	2 915 166
Coal						
Brown coal	tonnes	2 075 000	2 221 000	2 026 000	1 989 000	1 964 000
Lignite	tonnes	87 000	155 000	176 000	124 000	136 000
Feldspar	tonnes	10 000	13 000	—	—	—
Gold	kilograms (metal content)	198	346	534	398	546
Gypsum (a)	tonnes	152 000	131 000	87 000	88 000	88 000
Iron ore	tonnes	392 000	—	—	—	—
Pig iron	tonnes	3 529 000	3 019 000	3 649 000	3 346 000	3 519 755
Crude steel	tonnes	4 489 000	3 747 000	4 580 000	4 242 000	4 403 447
Ferro-alloys						
Ferro-silico-manganese	tonnes	59 940	32 000	34 960	25 036	50 089
Ferro-silicon	tonnes	10 844	4 600	26 419	32 304	32 726
Other ferro-alloys	tonnes	61 194	22 250	38 860	18 575	12 862
Kaolin	tonnes	44 000	10 000	—	4 000	3 000
Magnesite	tonnes	806 500	477 600	650 100	751 700	618 400
Perlite	tonnes	25 000	25 000	23 000	23 000	24 000
Crude petroleum	tonnes	21 000	19 000	16 000	18 000	14 000
Natural gas	million m ³	111	114	106	106	106
Salt	tonnes	109 510	41 000	—	—	—
Silver	kilograms (metal content)	198	201	320	330	441
Talc	tonnes	—	—	7 000	7 000	2 000

Note(s)

(1) Slovakia is also believed to produce sulphur

(a) Including anhydrite

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	* 1 388 000	* 768 000	* 598 000	* 615 008	* 525 000
Aluminium and bauxite						
Unwrought	tonnes	44 845	77 013	44 989	40 011	576
Unwrought alloys	tonnes	129 771	110 484	111 769	118 485	80 141
Scrap	tonnes	10 109	9 441	10 260	14 044	18 207
Barytes	tonnes	685	6 309	641	230	197
Bentonite and fuller's earth						
Bentonite	tonnes	79 936	65 429	32 981	85 760	98 257
Cement						
Cement clinkers	tonnes	53 871	127 016	69 366	44 607	—
Portland cement	tonnes	1 622 292	1 344 258	1 396 241	1 795 235	1 407 502
Other cement	tonnes	144 311	217 328	21 660	10	28
Chromium						
Metal	tonnes	1 299	424	777	83	2

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Coal						
Anthracite	tonnes	5 515	2 927	725	6 198	9 373
Other coal	tonnes	366 200	105 417	5 128	2 552	10
Lignite	tonnes	59 568	7 477	55	908	53
Briquettes	tonnes	...	609	108	65	6 486
Copper						
Unwrought, unrefined	tonnes	28 392	26 251	7 431	11 508	40 404
Unwrought, refined	tonnes	6 749	3 721	27 576	32 017	3 376
Scrap	tonnes	21 144	15 114	15 550	19 522	23 250
Diamond						
Gem, cut	Carats	...	...	7 000 000	3 000 000	500 000
Dust	Carats	...	100	6 250 000	2 934 017	...
Gold						
Metal	kilograms	2 914	3 196	2 926	20 000	3 300
Waste and scrap	kilograms	800	1 200	7 300	6 800	4 800
Iron ore	tonnes	53 434	5 923	62 568	22 481	118 695
Iron, steel and ferro-alloys						
Pig iron	tonnes	20 676	29 779	70 588	26 976	29 527
Ferro-chrome	tonnes	10 830	4 029	10 029	11 189	12 893
Ferro-manganese	tonnes	48 747	19 204	14 032	10 229	4 308
Ferro-silico-manganese	tonnes	55 873	37 792	35 764	28 660	44 202
Ferro-molybdenum	tonnes	222	119	78	2 416	172
Ferro-silicon	tonnes	21 352	15 823	19 656	31 004	26 389
Other ferro-alloys	tonnes	4 384	1 129	3 390	3 226	4 940
Ingots, blooms, billets	tonnes	241 811	255 917	631 135	221 697	413 032
Scrap	tonnes	525 777	318 290	556 952	651 135	430 539
Kaolin	tonnes	593	1 425	4 493	552	42
Magnesite and magnesite						
Magnesite (a)	tonnes	* 9 300	* 7 400	* 8 400	* 4 900	* 3 800
Magnesia	tonnes	409 295	261 876	336 786	340 612	272 677
Nickel						
Unwrought	tonnes	259	201	68	84	—
Scrap	tonnes	1 061	140	295	1 368	217
Crude petroleum	tonnes	18 159	14 932	13 048	15 359	11 515
Natural gas	tonnes	112 328	334 205	1 153 269	1 439 467	1 366 942
Platinum metals						
Platinum and platinum metals	kilograms	45 800	1 700	5 800	84 100	29 400
Salt	tonnes	62 133	4 606	45 056	27 935	20 917
Silver						
Metal	kilograms	6 061	2 700	39 100	15 100	31 500
Sulphur and pyrites						
Sulphur, sublimed and precipitated	tonnes	71 373	72 613	72 910	82 785	74 817
Talc	tonnes	1 994	45	47	38	25
Tin						
Unwrought	tonnes	107	(a) 9	(a) 8	11	688
Titanium						
Metal	tonnes	76	3	49	24	199
Zinc						
Unwrought	tonnes	14 600	12 871	7 903	2 836	3 421
Unwrought alloys	tonnes	10 412	11 365	13 075	7 001	10 336

Note(s)

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	755 496	692 609	666 380	527 259	419 992
Aluminium and bauxite						
Bauxite	tonnes	5 778	5 443	4 233	6 136	6 087
Alumina	tonnes	311 891	288 753	270 786	232 187	183 051
Unwrought (a)	tonnes	41 681	27 853	42 273	44 357	39 235
Scrap	tonnes	4 638	1 760	2 098	3 181	3 667
Asbestos						
Unmanufactured	tonnes	...	...	0	64	76
Bentonite and fuller's earth						
Bentonite	tonnes	8 987	5 890	6 416	26 935	25 923
Cement						
Cement clinkers	tonnes	94 510	13 076	6 380	9 706	5 840
Portland cement	tonnes	172 555	284 457	256 358	281 910	266 308
Other cement	tonnes	93 031	56 060	34 733	102 134	71 001
Chromium						
Ores and concentrates	tonnes	11 969	2 533	4 546	5 542	3 562
Metal	tonnes	104	52	34	8	42
Coal						
Anthracite	tonnes	258 597	264 286	293 054	713 105	635 877
Other coal	tonnes	4 253 530	3 828 520	3 078 570	3 110 255	32 401 325
Lignite	tonnes	983 151	693 786	563 021	534 118	624 731
Briquettes	tonnes	6 733	7 877	12 799	14 836	16 545
Cobalt						
Metal	tonnes	1 020	19	7	7	18
Oxides	tonnes	0	5 327	137	97	147
Copper						
Ores and concentrates	tonnes	—	2 113	462	1	—
Matte and cement	tonnes	...	3 300	799	10	—
Unwrought	tonnes	4 120	4 685	6 153	7 531	8 665
Scrap	tonnes	17 350	29 141	40 347	30 687	37 623
Diamond						
Gem, cut	Carats	£2 924 000	£1 993 000	£2 530 000	£2 720 000	£6 610 000
Industrial	Carats	10 817	* 2 600	55 000	1 037 208	* 10 000
Dust	Carats	...	59 781	18 560 000	129 250	* 193 000
Diatomite	tonnes	577	901	784	415	461
Feldspar	tonnes	24 788	16 352	5 886	5 590	5 518
Fluorspar	tonnes	1 143	644	954	762	896
Gold						
Metal	kilograms	74 800	208 400	220 470	189 400	523 800
Graphite	tonnes	2 981	962	1 899	1 688	1 847
Gypsum						
Crude	tonnes	111 188	53 104	74 512	80 966	70 308
Calcined	tonnes	47 044	52 703	16 732	17 194	17 335
Iron ore	tonnes	4 802 516	4 499 385	5 796 813	5 103 229	5 404 215
Iron, steel and ferro-alloys						
Pig iron	tonnes	70 034	19 468	33 258	43 874	38 466
Sponge and powder	tonnes	* 143 700	4 090	13 227	7 294	6 124
Ferro-chrome	tonnes	7 539	2 635	6 829	6 684	8 014
Ferro-manganese	tonnes	19 503	16 912	13 202	16 391	17 286
Ferro-silico-manganese	tonnes	2 776	2 720	1 776	4 904	3 902
Ferro-molybdenum	tonnes	245	171	140	374	252
Ferro-niobium	tonnes	897	154	315	426	549
Ferro-phosphorus	tonnes	1 033	590	282	629	463
Ferro-silicon	tonnes	23 747	14 970	15 250	12 660	9 171
Ferro-titanium and ferro-silico-titanium	tonnes	367	315	535	435	281
Ferro-vanadium	tonnes	217	7	62	123	144
Other ferro-alloys	tonnes	3 546	664	1 627	981	201
Silicon metal	tonnes	6 391	4 460	6 309	7 196	6 329
Ingots, blooms, billets	tonnes	18 953	54 781	10 020	24 162	7 314
Scrap	tonnes	217 558	164 985	224 868	146 065	342 657
Kaolin	tonnes	95 911	58 509	62 748	70 451	64 345
Magnesite and magnesite						
Magnesite	tonnes	3 401	2 906	3 916	4 960	(b)* 2 000
Magnesia	tonnes	40 675	12 731	28 639	27 100	23 363

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Manganese						
Ores and concentrates	tonnes	211 653	74 712	146 434	130 519	144 936
Metal	tonnes	350	395	442	659	228
Mercury	kilograms	5 200	4 500	4 700	27 700	10 000
Molybdenum						
Metal	tonnes	24	106	1	2	2
Nickel						
Scrap	tonnes	11	—	52	312	35
Unwrought (a)	tonnes	190	120	112	617	103
Crude petroleum	tonnes	5 778 688	5 787 725	5 555 541	5 988 119	5 345 149
Natural gas	tonnes	4 640 012	4 820 301	5 765 254	5 747 975	5 577 333
Phosphate rock	tonnes	251	258	1 688	1 662	1 299
Platinum metals						
Platinum	kilograms	1 573 351	1 533 869	1 625 761	2 662 700	2 339 500
Palladium	kilograms	58	1 191	2 702	4 400	4 800
Potash						
Chloride	tonnes	29 496	4 597	22 561	24 631	23 613
Other potassic fertilisers	tonnes	2 366	689	2 913	2 260	3 204
Rare earths						
Rare earth compounds	tonnes	5	8	8	10	7
Salt	tonnes	189 268	168 211	266 329	244 787	226 571
Sillimanite minerals	tonnes	1 919	1 812	2 456	2 917	844
Silver						
Metal	kilograms	8 200	9 000	55 300	* 47 000	268 700
Sulphur and pyrites						
Sulphur	tonnes	4 553	2 462	3 855	3 173	3 115
Sulphur, sublimed and precipitated	tonnes	1 518	1 046	864	1 510	735
Talc	tonnes	2 448	1 030	719	380	470
Tin						
Unwrought (a)	tonnes	2 276	2 059	2 087	2 120	2 091
Titanium						
Titanium minerals	tonnes	...	0	0	1	2
Metal	tonnes	329	130	956	2 271	643
Oxides	tonnes	2 389	2 949	2 109	2 409	2 163
Tungsten						
Metal	tonnes	55	43	366	5 398	5 331
Zinc						
Unwrought (a)	tonnes	41 003	28 863	37 266	34 536	27 313

Note(s)

(a) Including alloys

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

Slovenia

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	4 506 076	3 001 291	2 422 771	1 899 770	1 707 455
Crushed rock	tonnes	14 982 560	13 609 728	12 072 532	9 626 791	7 557 431
Primary aluminium	tonnes	83 300	35 148	40 177	75 300	74 400
Bentonite and fuller's earth						
Bentonite	tonnes	160	104	135	168	98
Cement						
Cement, finished	tonnes	* 1 300 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Coal						
Brown coal	tonnes	488 828	510 769	419 466	435 800	354 262
Lignite	tonnes	4 008 440	3 921 746	4 010 930	4 066 278	3 967 064
Crude steel	tonnes	642 000	430 000	606 000	648 000	632 000
Lead, refined	tonnes	15 000	14 000	14 000	15 000	12 000
Crude petroleum	tonnes	174	138	233	263	279
Natural gas	million m ³	3	3	7	2	1
Salt	tonnes	535	2 924	59	4 291	5 684

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	402 033	451 012	488 256	426 686	406 872
Aluminium and bauxite						
Bauxite	tonnes	450	2 537	6 665	5 738	1 576
Alumina	tonnes	258 238	242 215	239 729	161 747	203 376
Unwrought alloys	tonnes	88 038	61 800	78 619	95 251	94 531
Scrap	tonnes	26 863	23 382	33 972	39 961	52 712
Cement						
Cement clinkers	tonnes	1	—	42 475	140 361	175 807
Portland cement	tonnes	77 656	96 736	168 056	200 615	172 090
Other cement	tonnes	227 400	97 258	4 731	988	308
Chromium						
Metal	tonnes	111	14	123	174	1
Coal						
Lignite	tonnes	377	4 615	...	—	19
Cobalt						
Metal	tonnes	24	50	65	33	71
Copper						
Unwrought	tonnes	244	1 376	7 042	5 847	1 094
Unwrought alloys	tonnes	...	...	...	...	533
Scrap	tonnes	15 606	17 991	29 276	22 126	33 239
Gold						
Metal	kilograms	3 000	129	168	523	931
Waste and scrap	kilograms	—	200	5 450	12 200	14 800
Graphite	tonnes	13	15	14	661	252
Gypsum						
Crude and calcined	tonnes	8 575	6 575	205	220	303
Iron, steel and ferro-alloys						
Pig iron	tonnes	24 639	4 412	10 507	21 823	19 227
Ferro-chrome	tonnes	3 419	3 648	5 320	4 757	12 373
Ferro-manganese	tonnes	1 090	1 056	1 769	1 317	3 076
Ferro-silico-manganese	tonnes	1 243	1 938	5 959	4 268	3 281
Ferro-silicon	tonnes	20 826	6 628	7 280	13 397	9 241
Ferro-titanium and ferro-silico-titanium	tonnes	521	50	124	123	53
Other ferro-alloys	tonnes	6 243	3 297	4 214	4 554	5 193
Silicon metal	tonnes	1 149	3 049	5 568	4 753	764
Ingots, blooms, billets	tonnes	21 006	12 296	17 320	39 269	33 034
Scrap	tonnes	199 016	284 958	343 716	409 401	417 264
Lead						
Unwrought	tonnes	6 960	6 891	8 090	6 008	5 391

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Lithium						
Carbonate	tonnes	122	128	88	91	98
Magnesite and magnesite						
Magnesite	tonnes	427	59	4 798	78	22
Magnesia	tonnes	421	344	334	259	9 577
Nickel						
Unwrought (a)	tonnes	268	117	1 544	520	692
Natural gas	tonnes	24 368	3	—	—	—
Phosphate rock	tonnes	164 848	56 973	153 182	164 440	172 405
Platinum metals						
Platinum and platinum metals	kilograms	110	400	—	...	13 300
Salt	tonnes	20 590	15 671	21 711	33 998	30 498
Silver						
Metal	kilograms	8 800	1 600	3 100	3 600	3 800
Sulphur and pyrites						
Sulphur	tonnes	9 795	3 764	1 016	145	190
Titanium						
Metal	tonnes	40	23	171	346	356
Oxides	tonnes	55 110	57 866	61 637	53 015	47 488
Zinc						
Unwrought (a)	tonnes	1 937	1 469	2 725	918	367
Scrap	tonnes	975	517	933	832	1 104

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 424 240	1 165 083	771 814	486 627	461 601
Aluminium and bauxite						
Bauxite	tonnes	40 006	13 966	41 846	42 555	22 700
Alumina	tonnes	438 579	302 520	328 453	322 872	381 845
Alumina hydrate	tonnes	27 121	20 629	27 252	26 173	15 753
Unwrought	tonnes	67 405	62 162	87 848	65 523	66 209
Unwrought alloys	tonnes	50 389	34 530	65 950	71 318	66 410
Scrap	tonnes	51 319	37 677	51 159	52 860	60 468
Antimony						
Metal	tonnes	71	50	36	150	25
Arsenic						
Metallic arsenic	tonnes	—	3	* —	11	11
Barytes	tonnes	596	530	457	609	881
Bentonite and fuller's earth						
Bentonite	tonnes	3 976	4 421	4 191	4 790	5 905
Bismuth						
Metal	tonnes	60	24	49	63	57
Cement						
Cement clinkers	tonnes	5 783	60	129	95 704	168 235
Portland cement	tonnes	326 096	297 617	328 563	334 053	210 734
Other cement	tonnes	4 618	17 414	17 328	8 237	4 077
Chromium						
Ores and concentrates	tonnes	999	1 005	1 912	966	466
Metal	tonnes	313	143	104	97	101
Coal						
Anthracite	tonnes	8 364	3 997	7 898	15 300	8 745
Other coal	tonnes	66 144	29 146	18 975	15 329	14 920
Lignite	tonnes	833 308	507 013	544 523	515 659	599 679
Cobalt						
Metal	tonnes	93	149	141	110	92
Copper						
Unwrought	tonnes	2 649	2 826	8 369	7 062	1 287
Scrap	tonnes	9 687	11 452	22 407	12 350	10 222

Slovenia

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Diamond						
Dust	Carats	1 395 416	723 391	1 656 306	1 423 460	990 000
Diatomite	tonnes	644	550	718	623	397
Feldspar	tonnes	6 576	8 899	14 954	13 168	6 012
Fluorspar	tonnes	1 326	1 064	1 754	1 463	1 481
Gold						
Metal	kilograms	1 700	400	1 100	1 700	1 100
Waste and scrap	kilograms	9	1 210	5 400	5 600	1 800
Graphite	tonnes	141	89	295	844	440
Gypsum						
Crude	tonnes	24 660	5 565	942	785	37
Calcined	tonnes	8 622	9 432	7 615	6 218	6 095
Iodine	kilograms	119	631	45	35	111
Iron, steel and ferro-alloys						
Pig iron	tonnes	68 153	24 031	29 120	25 327	30 517
Sponge and powder	tonnes	1 311	1 053	1 225	1 630	794
Ferro-chrome	tonnes	25 665	15 951	26 575	36 528	36 673
Ferro-silico-magnesium	tonnes	1 354	286	624	786	1 485
Ferro-manganese	tonnes	5 663	4 157	6 175	5 763	6 318
Ferro-silico-manganese	tonnes	3 373	3 467	8 810	7 697	7 477
Ferro-molybdenum	tonnes	540	410	717	885	1 028
Ferro-phosphorus	tonnes	483	522	846	968	1 115
Ferro-silicon	tonnes	24 651	11 335	13 114	15 739	15 371
Ferro-titanium and ferro-silico-titanium	tonnes	434	108	230	232	228
Ferro-tungsten and ferro-silico-tungsten	tonnes	108	14	99	136	65
Ferro-vanadium	tonnes	454	230	481	449	413
Other ferro-alloys	tonnes	2 624	1 421	1 795	1 687	1 714
Silicon metal	tonnes	6 536	4 929	7 874	8 318	5 862
Ingots, blooms, billets	tonnes	12 930	1 568	8 191	31 931	20 897
Scrap	tonnes	367 968	281 950	495 432	561 713	552 363
Kaolin	tonnes	25 682	20 776	27 287	28 779	22 614
Lead						
Unwrought	tonnes	14 103	13 036	16 025	17 594	17 294
Scrap	tonnes	1 556	1 985	3 812	3 611	3 741
Lithium						
Oxides	tonnes	186	139	95	125	190
Magnesia and magnesite	tonnes	8 272	4 346	7 279	64 675	109 365
Manganese						
Metal	tonnes	438	264	433	420	483
Molybdenum						
Ores and concentrates	tonnes	690	292	561	523	473
Nickel						
Unwrought (a)	tonnes	2 686	2 020	2 967	3 230	4 304
Natural gas	tonnes	750 581	748 930	828 674	736 641	662 178
Phosphate rock	tonnes	164 872	56 969	153 160	164 442	172 406
Potash						
Potassic fertilisers	tonnes	2 166	766	1 919	2 076	1 447
Rare earths						
Metals	tonnes	88	55	98	26	55
Rare earth compounds	tonnes	3	2	3	3	9
Salt	tonnes	190 017	239 191	317 999	235 663	142 926
Sillimanite minerals	tonnes	511	236	363	921	1 901
Silver						
Metal	kilograms	45 000	17 800	24 100	29 700	25 100
Sulphur and pyrites						
Pyrites	tonnes	683	353	645	836	921
Sulphur	tonnes	56 381	53 615	57 411	56 490	51 225
Talc	tonnes	12 860	13 756	10 793	4 489	4 413
Tin						
Unwrought (a)	tonnes	87	69	118	70	62
Titanium						
Titanium minerals	tonnes	34 930	32 789	25 081	54 387	20 208
Metal	tonnes	257	233	400	964	739
Oxides	tonnes	3 296	2 889	2 917	2 884	2 625
Titanium slag	tonnes	65 180	66 818	...	39 644	57 097

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Diamond						
Zinc						
Unwrought	tonnes	14 881	16 766	15 314	14 495	12 916
Unwrought alloys	tonnes	8 938	6 180	5 850	7 374	6 623
Zirconium						
Concentrates	tonnes	548	227	330	273	176

Note(s)

(a) Including alloys

Spain

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	118 000 000	96 000 000	72 000 000	59 000 000	* 40 000 000
Crushed rock	tonnes	214 000 000	160 000 000	170 000 000	144 000 000	* 94 000 000
Alumina	tonnes (Al ₂ O ₃ content)	1 300 000	* 1 300 000	* 1 300 000	* 1 300 000	* 1 100 000
Primary aluminium	tonnes	405 800	334 600	335 000	365 000	* 320 000
Barytes	tonnes	11 100	5 212	2 050	—	—
Bentonite and fuller's earth						
Bentonite	tonnes	154 534	147 090	157 001	110 371	135 445
Attapulgite	tonnes	27 348	21 110	27 841	26 021	23 537
Sepiolite	tonnes	737 659	573 937	557 862	566 270	748 863
Cement						
Cement, clinker	tonnes	27 304 551	21 594 604	21 234 637	17 000 000	* 15 000 000
Cement, finished	tonnes	42 088 110	29 504 574	26 217 200	22 000 000	* 20 000 000
Coal						
Anthracite	tonnes	3 152 550	4 306 033	3 212 603	2 489 797	2 259 236
Bituminous	tonnes	4 085 652	2 898 340	2 776 918	1 774 992	1 651 496
Sub-bituminous	tonnes	2 890 230	2 493 577	2 428 877	2 358 930	2 275 409
Copper, mine	tonnes (metal content)	7 071	17 663	54 335	68 511	97 636
Copper, smelter	tonnes	259 897	264 971	259 119	260 730	295 200
Copper, refined	tonnes	319 050	329 356	347 518	353 790	406 600
Diatomite (a)	tonnes	46 192	29 194	64 346	83 624	60 777
Feldspar	tonnes	690 256	597 496	691 894	662 418	530 238
Fluorspar	tonnes	148 736	122 533	132 341	117 063	113 570
Gold	kilograms (metal content)	—	—	—	290	1 333
Gypsum	tonnes	11 955 753	8 181 315	6 990 249	7 825 747	* 6 600 000
Pig iron	tonnes	3 784 000	2 920 000	3 572 000	3 540 000	3 081 000
Crude steel	tonnes	18 640 000	14 358 000	16 343 000	15 504 000	13 639 000
Ferro-alloys						
Ferro-manganese	tonnes	* 161 000	* 60 100	* 134 000	* 108 000	* 108 000
Ferro-silico-manganese	tonnes	* 158 000	* 59 200	* 132 000	* 164 000	* 165 000
Ferro-silicon	tonnes	* 74 000	* 44 000	* 64 400	* 57 000	* 57 000
Silicon metal	tonnes	* 33 000	* 23 000	* 32 500	* 43 000	45 000
Kaolin (b)	tonnes	355 739	270 298	310 993	384 179	331 707
Lead, mine	tonnes (metal content)	—	1 000	229	5 705	6 800
Lead, refined	tonnes	145 000	138 000	165 000	177 000	160 000
Lithium						
Lepidolite	tonnes	9 342	4 270	7 824	—	—
Magnesite	tonnes	442 339	390 311	462 959	577 725	649 977
Mica (c)	tonnes	4 254	3 655	4 034	3 775	3 515
Nickel, mined	tonnes (metal content)	8 136	8 029	6 296	—	2 398
Crude petroleum	tonnes	127 542	106 817	121 528	99 925	143 526
Natural gas	million m ³	46	19	58	58	65
Potash						
Chloride	tonnes (K ₂ O content)	472 952	481 455	418 778	436 026	421 652
Salt						
Rock salt	tonnes	2 909 907	2 763 081	3 115 940	3 096 383	2 785 959
Sea salt	tonnes	1 290 672	1 338 789	1 242 718	1 314 529	1 155 475
Other salt	tonnes	102 149	99 853	92 644	92 850	100 643
Silver	kilograms (metal content)	—	2 200	20 800	29 900	32 603
Strontium Minerals	tonnes	138 590	57 466	83 035	97 102	84 818
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	551 000	533 000	547 000	490 000	* 450 000
Recovered (e)	tonnes (sulphur content)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Talc						
Pyrophyllite	tonnes	—	—	—	5 600	* 5 000
Talc	tonnes	59 299	47 218	51 897	11 957	8 857
Tin	tonnes (metal content)	—	—	—	9	69
Tungsten	tonnes (metal content)	194	284	303	425	496

Production continued

Commodity	Units	2008	2009	2010	2011	2012
Wollastonite	tonnes	10 100	7 000	6 000	7 417	10 918
Zinc, mine	tonnes (metal content)	—	5 900	17 323	33 197	28 634
Slab zinc	tonnes	466 000	515 000	517 100	527 100	528 300

Note(s)

(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	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 478 362	1 060 445	1 153 923	1 306 103	1 026 358
Aluminium and bauxite						
Bauxite	tonnes	5 623	4 951	3 628	2 038	1 676
Alumina	tonnes	671 009	612 933	299 703	391 516	426 925
Alumina hydrate	tonnes	236 855	163 303	126 398	186 543	282 062
Unwrought	tonnes	39 359	19 816	26 693	19 248	29 433
Unwrought alloys	tonnes	123 577	230 539	148 884	175 112	181 026
Scrap	tonnes	109 493	46 307	66 976	51 518	90 881
Antimony						
Metal	tonnes	143	62	19	50	247
Oxide	tonnes	1 023	894	1 716	1 784	1 204
Barytes	tonnes	33 676	29 776	32 427	34 285	34 402
Bentonite and fuller's earth						
Bentonite	tonnes	75 287	1 021 034	66 118	54 449	54 147
Sepiolite	tonnes	460 485	418 644	...	...	...
Bismuth						
Metal	tonnes	19	14	9	9	4
Bromine	kilograms	2 000	2 578	15 627	86 311	10 480
Cement						
Cement clinkers	tonnes	907 694	1 181 783	1 545 705	1 590 245	3 487 481
Portland cement	tonnes	1 474 428	1 411 588	2 768 457	2 577 325	3 033 778
Other cement	tonnes	63 825	74 007	87 864	184 099	117 093
Chromium						
Ores and concentrates	tonnes	1 073	1 022	600	1 252	4 225
Metal	tonnes	1 165	516	665	237	555
Coal						
Anthracite	tonnes	186 293	123 114	337 930	337 833	240 630
Other coal	tonnes	1 636 071	1 252 923	1 149 991	851 716	162 047
Briquettes	tonnes	21 735	193	599	250	76
Cobalt						
Metal	tonnes	8	17	4	25	72
Copper						
Ores and concentrates	tonnes	463	110 724	221 429	583 874	529 494
Matte and cement	tonnes	...	—	...	17 649	9 409
Unwrought, unrefined	tonnes	41 676	38 761	33 973	37 314	43 168
Unwrought, refined	tonnes	85 899	108 716	151 204	86 800	145 142
Unwrought alloys	tonnes	12 139	12 150	15 881	15 809	17 571
Scrap	tonnes	83 820	100 498	102 236	87 122	159 419
Diamond						
Unsorted	Carats	£503 000	£266 000	£292 000	£154 000	£490 000
Gem, rough	Carats	...	...	...	...	£130 000
Gem, cut	Carats	£6 631 000	£5 328 000	£7 350 000	£9 802 000	£9 021 000
Industrial	Carats	£498 000	£171 000	£210 000	£590 000	£42 000
Dust	Carats	400 810	182 628	689 563	8 454 551	21 675 000
Diatomite	tonnes	5 306	4 678	7 382	6 637	10 384

Spain

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Feldspar	tonnes	79 120	56 161	69 337	71 959	63 369
Fluorspar	tonnes	13 109	35 366	1 680	3 312	5 519
Gold						
Metal	kilograms	6 966	31 466	282 816	9 444 195	4 268 966
Waste and scrap	kilograms	1 147	131 376	258 156	176 652	113 264
Graphite	tonnes	10 499	8 160	5 369	6 142	5 184
Gypsum						
Crude	tonnes	3 458 773	2 187 816	2 678 208	3 367 083	3 780 980
Calcined	tonnes	228 060	182 982	165 424	156 461	135 415
Iodine	kilograms	46 873	15 376	14 704	7 909	43 289
Iron ore (a)	tonnes	62 147	17 348	9 079	165 589	184 056
Iron, steel and ferro-alloys						
Pig iron	tonnes	9 747	4 772	2 998	7 023	11 831
Sponge and powder	tonnes	4 763	2 566	2 658	3 233	3 000
Ferro-chrome	tonnes	4 768	367	1 025	1 181	1 359
Ferro-manganese	tonnes	65 330	29 403	52 296	37 866	42 486
Ferro-silico-manganese	tonnes	34 307	25 859	58 097	65 469	66 101
Ferro-molybdenum	tonnes	45	242	359	7	55
Ferro-silicon	tonnes	9 562	5 939	12 854	12 952	20 235
Other ferro-alloys	tonnes	393	208	2 191	2 326	1 901
Silicon metal	tonnes	16 008	5 571	18 463	21 864	20 690
Ingots, blooms, billets	tonnes	310 671	261 758	337 566	194 482	134 781
Scrap	tonnes	214 913	302 465	277 401	431 394	737 203
Kaolin	tonnes	155 563	156 915	167 811	161 156	173 061
Lead						
Ores and concentrates	tonnes	1 015	14 147	9 513	24 608	50 216
Unwrought	tonnes	14 771	13 434	6 630	15 683	37 882
Scrap	tonnes	6 616	3 862	6 781	5 029	3 361
Lithium						
Carbonate	tonnes	128	228	175	268	100
Magnesite and magnesite						
Magnesite	tonnes	725	2 167	410	573	1 051
Magnesia	tonnes	175 307	156 027	224 590	259 493	257 527
Manganese						
Ores and concentrates	tonnes	518	21 456	707	623	621
Metal	tonnes	4 562	3 386	1 297	1 735	4 665
Mercury	kilograms	639 203	376 885	964 922	824 421	950 824
Mica						
Unmanufactured	tonnes	1 259	563	1 339	1 823	1 826
Ground	tonnes	1 368	1 521	2 269	2 193	1 993
Molybdenum						
Metal	tonnes	18	68	243	14	69
Nickel						
Ores and concentrates	tonnes	127 812	102 105	93 536	26 597	20 632
Scrap	tonnes	226	875	366	376	454
Unwrought (b)	tonnes	600	573	738	400	430
Crude petroleum (c)	tonnes	* 24 000	* 400	* 164 000	* 300	* 240 000
Natural gas	tonnes	—	61 433	200 027	555 012	1 325 072
Phosphate rock	tonnes	4 754	1 565	1 888	10 985	620
Platinum metals						
Platinum and platinum metals	kilograms	3 104	1 672	2 347	1 255	21 889
Waste and scrap	kilograms	88 069	225 411	291 877	163 420	68 805
Potash						
Sulphate	tonnes	1 251	2 540	6 474	3 713	4 873
Chloride	tonnes	360 538	319 549	609 607	688 599	733 789
Other potassic fertilisers	tonnes	1 895	1 352	2 365	2 385	3 020
Rare earths						
Metals	tonnes	50	—	97	51	1
Cerium compounds	tonnes	8	13	51	62	8
Other rare earth compounds	tonnes	17	5	34	32	9
Salt	tonnes	646 288	862 994	1 318 019	1 311 651	807 581
Silver						
Ores and concentrates	kilograms	—	30	377	9 847	30 748
Metal	kilograms	379 675	233 084	417 381	383 412	626 782
Sulphur and pyrites						
Sulphur	tonnes	116 213	198 585	138 168	361 188	438 368
Sulphur, sublimed and precipitated	tonnes	338	523	612	289	264

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Talc	tonnes	51 180	29 580	11 206	28 980	9 771
Tin						
Unwrought (b)	tonnes	433	427	513	449	558
Scrap	tonnes	447	2 038	376	4 543	2 436
Titanium						
Titanium minerals	tonnes	155	25 892	2 405	650	4 011
Metal	tonnes	947	1 018	1 928	1 698	1 779
Oxides	tonnes	58 342	33 721	35 233	48 870	51 919
Tungsten						
Ores and concentrates	tonnes	286	457	400	981	1 074
Metal	tonnes	223	156	315	880	453
Vanadium						
Pentoxide	tonnes	4	26	22	774	26
Zinc						
Ores and concentrates	tonnes	121 688	40 118	82 009	122 429	133 939
Unwrought	tonnes	191 897	216 633	318 527	351 354	359 605
Unwrought alloys	tonnes	92 781	62 544	91 054	35 318	38 229
Scrap	tonnes	6 210	26 675	37 362	15 625	8 283
Zirconium						
Concentrates	tonnes	14 151	13 581	28 166	29 952	14 360
Metal	tonnes	525	746	51	3	64

Note(s)

(a) Including burnt pyrites

(b) Including alloys

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

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 035 555	889 156	982 128	677 289	618 871
Aluminium and bauxite						
Bauxite	tonnes	3 618 306	3 509 294	3 325 099	3 080 295	3 693 740
Alumina	tonnes	50 417	22 239	31 527	61 184	28 910
Alumina hydrate	tonnes	41 614	30 522	29 317	22 917	16 162
Unwrought	tonnes	82 512	95 461	119 589	110 612	107 320
Unwrought alloys	tonnes	281 270	162 026	229 036	219 925	207 511
Scrap	tonnes	110 745	63 517	111 942	125 190	155 371
Antimony						
Ores and concentrates	tonnes	154	55	103	29	10
Metal	tonnes	1 987	1 478	2 642	2 450	1 553
Oxide	tonnes	899	493	516	494	720
Arsenic						
Metallic arsenic	tonnes	192	48	96	93	143
Barytes	tonnes	71 025	30 503	106 611	70 896	49 674
Bentonite and fuller's earth						
Bentonite	tonnes	103 602	72 993	108 066	146 344	114 421
Bismuth						
Metal	tonnes	212	52	141	99	103
Bromine	kilograms	169 159	75 099	222 746	250 417	188 015
Cadmium						
Metal	tonnes	21	118	153	38	37
Cement						
Cement clinkers	tonnes	5 496 563	2 079 944	1 342 279	490 164	80 228
Portland cement	tonnes	1 729 088	694 757	637 322	450 416	363 065
Other cement	tonnes	58 007	73 362	14 516	15 894	17 347
Chromium						
Ores and concentrates	tonnes	6 721	4 031	5 579	9 262	10 487
Metal	tonnes	1 219	1 192	1 878	2 350	1 479
Coal						
Anthracite	tonnes	957 293	767 027	846 015	852 813	594 330
Other coal	tonnes	20 010 533	15 967 793	10 983 379	15 315 861	21 819 298

Spain

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Cobalt						
Metal	tonnes	131	135	144	159	233
Oxides	tonnes	1 038	1 035	1 543	1 837	1 941
Copper						
Ores and concentrates	tonnes	1 122 093	1 184 321	1 229 148	1 482 354	1 517 856
Matte and cement	tonnes	...	21	992	17 530	9 417
Unwrought, unrefined	tonnes	3 733	3 133	518	12 747	685
Unwrought, refined	tonnes	79 125	80 898	73 904	62 695	44 567
Unwrought alloys	tonnes	4 352	3 473	3 947	6 719	4 109
Scrap	tonnes	65 765	68 166	82 931	89 499	97 129
Diamond						
Unsorted	Carats	£1 959 000	£1 591 000	£1 814 000	£3 864 000	£2 441 000
Gem, rough	Carats	£181 000	£207 000	£312 000	£276 000	£487 000
Gem, cut	Carats	£40 012 000	£30 290 000	£26 488 000	£25 312 000	£24 197 000
Industrial	Carats	£1 485 000	£917 000	£275 000	£605 000	£774 000
Dust	Carats	42 938 192	30 861 760	27 500 320	27 699 364	* 19 429 000
Diatomite	tonnes	8 861	9 600	8 191	7 989	7 368
Feldspar	tonnes	1 410 760	664 830	856 406	993 378	926 809
Fluorspar	tonnes	32 016	17 148	12 008	14 198	16 542
Gold						
Metal	kilograms	* 72 000	68 562	44 542	46 695	24 180
Waste and scrap	kilograms	252	109	2 780	29 069	33 912
Graphite	tonnes	24 284	15 669	34 268	10 765	5 579
Gypsum						
Crude	tonnes	43 171	25 963	20 776	13 185	11 943
Calcined	tonnes	33 825	7 349	6 015	5 787	5 548
Iodine	kilograms	541 706	512 821	342 914	522 768	357 482
Iron ore	tonnes	(a) 6 479 890	(a) 4 237 845	(a) 5 874 304	(a) 5 143 562	4 505 772
Iron, steel and ferro-alloys						
Pig iron	tonnes	688 421	380 731	442 656	315 904	274 202
Sponge and powder	tonnes	621 627	295 665	636 496	640 549	487 073
Ferro-chrome	tonnes	203 518	113 275	164 125	152 254	180 740
Ferro-silico-chrome	tonnes	4 210	312	1 854	5 448	4 037
Ferro-silico-magnesium	tonnes	2 328	865	1 567	2 139	2 696
Ferro-manganese	tonnes	17 126	13 357	19 930	15 256	23 224
Ferro-silico-manganese	tonnes	74 962	50 683	39 895	36 803	39 584
Ferro-molybdenum	tonnes	3 777	3 756	6 446	6 943	10 662
Ferro-nickel	tonnes	68 355	43 936	47 389	43 284	45 528
Ferro-niobium	tonnes	685	553	983	1 334	1 000
Ferro-phosphorus	tonnes	1 488	193	1 425	1 816	1 282
Ferro-silicon	tonnes	46 445	27 140	27 581	29 894	28 149
Ferro-titanium and ferro-silico-titanium	tonnes	1 006	611	1 203	1 120	957
Ferro-tungsten and ferro-silico-tungsten	tonnes	168	125	55	60	1 079
Ferro-vanadium	tonnes	1 122	809	1 088	1 094	964
Other ferro-alloys	tonnes	7 561	4 954	6 138	8 566	7 401
Silicon metal	tonnes	8 856	9 523	8 446	11 801	12 573
Ingots, blooms, billets	tonnes	1 587 605	1 007 820	1 269 577	1 061 766	1 025 012
Scrap	tonnes	7 408 237	4 674 099	5 708 900	4 764 338	4 348 807
Kaolin	tonnes	1 470 440	757 859	1 061 732	1 055 122	856 355
Lead						
Ores and concentrates	tonnes	7 107	3 199	10 946	6 722	4 651
Unwrought	tonnes	116 492	121 522	110 217	114 380	122 913
Scrap	tonnes	35 506	35 703	43 432	42 236	34 702
Lithium						
Oxides	tonnes	501	521	1 007	698	763
Carbonate	tonnes	3 908	2 825	3 239	3 423	2 638
Magnesite and magnesia						
Magnesite	tonnes	2 839	10 029	3 926	6 164	2 695
Magnesia	tonnes	143 849	42 980	94 840	97 566	82 320
Manganese						
Ores and concentrates	tonnes	640 677	54 606	407 450	508 794	413 613
Metal	tonnes	10 033	3 994	7 510	10 951	6 470
Mercury	kilograms	337 117	467 614	335 852	54 748	54 994
Mica	tonnes	952	1 467	1 183	1 534	1 017
Molybdenum						
Ores and concentrates	tonnes	3 787	1 724	2 585	3 572	3 041
Metal	tonnes	189	236	239	83	78

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Nickel						
Unwrought	tonnes	22 668	12 290	16 468	17 567	20 230
Unwrought alloys	tonnes	1 547	821	1 125	966	1 368
Oxides	tonnes	151	50	329	323	131
Scrap	tonnes	120	236	151	806	554
Crude petroleum	tonnes	59 444 410	52 331 324	52 714 224	51 960 524	58 285 251
Natural gas	tonnes	32 044 466	28 024 572	27 795 263	27 529 122	26 622 307
Phosphate rock	tonnes	1 611 494	438 755	1 017 820	377 348	345 571
Platinum metals						
Platinum and platinum metals (b)	kilograms	* 3 900	* 3 000	* 3 500	* 3 000	* 2 500
Waste and scrap	kilograms	8 947	29 448	29 183	17 845	13 104
Potash						
Sulphate	tonnes	40 911	21 022	40 507	39 133	43 865
Chloride	tonnes	194 656	71 444	211 595	257 920	232 397
Other potassic fertilisers	tonnes	3 548	3 721	1 607	1 283	968
Rare earths						
Metals	tonnes	274	108	421	9	19
Cerium compounds	tonnes	444	443	543	636	455
Other rare earth compounds	tonnes	270	140	216	102	155
Ferro-cerium and other pyrophoric alloys	tonnes	15	19	41	33	22
Salt	tonnes	97 348	81 729	85 807	111 597	52 046
Sillimanite minerals						
Sillimanite minerals	tonnes	26 903	19 824	27 611	32 091	12 372
Mullite	tonnes	8 006	1 824	4 934	6 153	2 465
Silver						
Ores and concentrates	kilograms	75 633	66 088	11 317	17 131	123 171
Metal	kilograms	1 547 747	754 262	1 513 257	828 017	431 934
Sulphur and pyrites						
Pyrites	tonnes	1 903	958	1 160	476	384
Sulphur	tonnes	153 575	24 015	68 214	44 724	13 291
Sulphur, sublimed and precipitated	tonnes	372	187	229	176	300
Talc	tonnes	85 942	81 043	82 425	88 655	80 421
Tin						
Unwrought	tonnes	7 313	5 457	6 410	5 967	5 744
Unwrought alloys	tonnes	261	243	172	428	122
Scrap	tonnes	376	441	2 410	5 386	801
Titanium						
Ilmenite	tonnes	119 467	26 512	...	...	...
Other titanium minerals	tonnes	9 133	522	(c) 111 298	(c) 123 284	(c) 99 055
Metal	tonnes	3 131	1 735	2 627	3 673	3 411
Oxides	tonnes	138 275	93 267	91 822	90 581	67 970
Titanium slag	tonnes	10 004	...	...	...	...
Tungsten						
Ores and concentrates	tonnes	11	147	44	15	17
Metal	tonnes	731	681	426	216	506
Carbide	tonnes	31	13	25	51	35
Vanadium						
Ores and concentrates	tonnes	9	22	...	...	...
Pentoxide	tonnes	43	50	115	52	56
Zinc						
Ores and concentrates	tonnes	1 114 634	909 078	1 003 388	977 695	1 069 671
Unwrought	tonnes	26 779	16 091	7 583	16 841	6 091
Unwrought alloys	tonnes	15 000	9 230	15 627	11 050	7 235
Scrap	tonnes	7 396	3 127	10 935	23 205	9 620
Zirconium						
Concentrates	tonnes	152 604	95 103	149 442	143 493	63 341
Metal	tonnes	136	83	132	97	124

Note(s)

(a) Including burnt pyrites

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

(c) Includes ilmenite

Sweden

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	18 804 343	14 400 000	* 17 000 000	* 17 000 000	* 17 000 000
Crushed rock	tonnes	66 757 671	57 500 000	* 57 000 000	* 58 000 000	* 58 000 000
Primary aluminium	tonnes	81 913	69 708	93 000	111 000	129 000
Cement						
Cement, clinker	tonnes	1 881 054	1 702 019	1 790 784	* 1 750 000	* 1 750 000
Cement, finished	tonnes	* 2 950 000	* 2 900 000	* 2 900 000	* 2 900 000	* 2 900 000
Copper, mine	tonnes (metal content)	57 688	55 414	76 514	82 967	82 422
Copper, smelter	tonnes	203 700	183 400	181 500	206 100	207 300
Copper, refined	tonnes	227 774	205 759	190 497	219 316	214 050
Feldspar	tonnes	22 000	18 000	22 000	30 000	27 000
Gold	kilograms (metal content)	4 953	5 542	6 285	5 994	6 015
Pig iron	tonnes	3 708 000	1 966 000	3 447 000	3 240 000	2 805 000
Iron ore	tonnes	23 888 000	17 677 000	25 292 000	26 113 000	26 540 000
Crude steel	tonnes	5 197 600	2 803 700	4 845 600	4 867 000	4 326 000
Ferro-alloys						
Ferro-chrome	tonnes	118 700	31 100	64 400	80 140	35 800
Lead, mine	tonnes (metal content)	63 489	69 293	67 697	62 028	63 551
Lead, refined	tonnes	56 812	51 574	59 179	52 438	61 528
Selenium metal	tonnes	139	129	72	* 70	* 70
Silver	kilograms (metal content)	293 068	288 590	302 145	301 959	309 337
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	199 600	186 100	179 833	202 289	194 279
Recovered (b)	tonnes (sulphur content)	84 456	83 646	83 947	92 973	93 442
Talc	tonnes	4 000	4 000	4 000	3 000	—
Zinc, mine	tonnes (metal content)	187 987	192 502	198 687	194 021	188 325

Note(s)

(a) From metal sulphide processing

(b) From petroleum refining and/or natural gas

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	3 049 601	1 867 320	2 248 515	1 624 154	1 602 379
Aluminium and bauxite						
Alumina	tonnes	13 919	14 464	19 037	13 870	10 401
Unwrought	tonnes	6 307	2 143	195	735	873
Unwrought alloys	tonnes	89 190	145 554	190 394	182 946	188 063
Scrap	tonnes	106 581	89 940	88 070	95 632	108 353
Antimony						
Metal	tonnes	15	489	4	—	4
Bentonite and fuller's earth						
Bentonite	tonnes	11 640	5 588	3 457	3 300	5 492
Bismuth						
Metal	tonnes	1	106	11	1	—
Cadmium						
Oxide	tonnes	448	305	360	429	335
Cement						
Cement clinkers	tonnes	217	577 571	505 585	267 884	391 898
Portland cement	tonnes	723 793	482 223	467 559	590 443	782 362
Other cement	tonnes	14 082	7 166	5 819	7 120	8 546
Chromium						
Metal	tonnes	225	100	191	167	123
Cobalt						
Metal	tonnes	67	285	220	99	200

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Copper						
Ores and concentrates	tonnes	49	—	24	8 010	4 266
Unwrought	tonnes	70 047	77 745	71 394	92 971	105 338
Unwrought alloys	tonnes	5 610	3 181	8 563	5 615	3 585
Scrap	tonnes	57 245	55 603	43 311	58 031	58 829
Diatomite	tonnes	749	693	829	1 098	1 214
Feldspar	tonnes	10 670	7 646	11 251	19 258	16 831
Fluorspar	tonnes	11 538	6 745	8 101	11 053	13 714
Gold						
Metal	kilograms	19 400	14 500	14 700	12 900	16 600
Waste and scrap	kilograms	29 400	60 900	5 100	21 000	9 700
Graphite	tonnes	252	159	254	129	129
Gypsum						
Crude and calcined	tonnes	11 525	9 358	8 155	3 865	4 466
Iodine	kilograms	122	300	700	900	7 900
Iron ore	tonnes	17 617 162	16 104 129	20 726 152	21 115 203	22 869 383
Iron, steel and ferro-alloys						
Pig iron	tonnes	62 588	141 261	146 027	133 387	109 644
Sponge and powder	tonnes	19 844	296 251	12 335	313 081	297 427
Ferro-chrome	tonnes	3 534	35 886	51 010	2 752	2 525
Ferro-manganese and ferro-silico-manganese	tonnes	3 620	2 423	3 517	3 581	2 835
Ferro-molybdenum	tonnes	301	193	340	375	294
Ferro-phosphorus	tonnes	1 370	364	582	448	479
Ferro-silicon	tonnes	2 616	3 004	6 905	6 903	15 630
Ferro-vanadium	tonnes	112	250	50	57	64
Other ferro-alloys	tonnes	895	330	498	665	950
Silicon metal	tonnes	2 458	968	2 337	1 274	1 206
Ingots, blooms, billets	tonnes	102 086	58 631	261 273	235 814	450 860
Scrap	tonnes	1 449 311	1 439 126	1 352 399	1 484 197	1 543 542
Kaolin	tonnes	30 495	31 122	23 103	16 444	7 032
Lead						
Ores and concentrates	tonnes	61 439	72 220	111 153	73 996	68 646
Unwrought	tonnes	53 715	46 795	55 501	54 370	51 796
Scrap	tonnes	816	1 044	1 445	1 471	1 425
Magnesite and magnesite						
Magnesia	tonnes	235	380	303	165	130
Mercury	kilograms	500	2 100	95 600	...	1 000
Nickel						
Unwrought (a)	tonnes	288	522	497	599	1 690
Oxides	tonnes	511	363	534	516	429
Scrap	tonnes	1 513	1 376	1 022	1 137	13 853
Crude petroleum	tonnes	3	45	2	3 105	22 040
Natural gas	tonnes	—	961	21	6 159	475
Phosphate rock	tonnes	4 897	1 228	125	2 253	1 826
Platinum metals						
Platinum and platinum metals	kilograms	£851 000	£177 000	£429 000	£1 203 000	£801 000
Waste and scrap	kilograms	575 300	40 400	69 000	43 600	39 100
Potash						
Sulphate	tonnes	53 883	59 252	93 796	84 381	69 205
Rare earths						
Cerium compounds	tonnes	...	1	9	...	5
Salt	tonnes	10 444	10 025	12 742	13 297	8 973
Silver						
Metal	kilograms	521 200	476 300	412 900	428 500	480 100
Sulphur and pyrites						
Sulphur	tonnes	5 525	3 018	2 768	3 980	10 145
Sulphur, sublimed and precipitated	tonnes	13 128	12 242	11 564	10 344	5 248
Talc	tonnes	9 227	8 032	9 014	8 308	4 598
Tin						
Unwrought (a)	tonnes	213	122	163	52	32
Titanium						
Metal	tonnes	1 002	717	925	1 086	1 111
Oxides	tonnes	19 992	15 921	20 567	18 331	16 429

Sweden

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Tungsten						
Ores and concentrates	tonnes	75	96	—	21	149
Metal	tonnes	328	431	289	218	122
Carbide	tonnes	436	253	401	186	109
Zinc						
Ores and concentrates	tonnes	389 473	395 616	362 085	374 501	343 725
Scrap	tonnes	2 898	1 840	2 900	3 257	3 166
Zirconium						
Metal	tonnes	144	118	90	137	95

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	864 988	355 022	533 148	802 173	944 006
Aluminium and bauxite						
Bauxite	tonnes	18 761	10 755	6 660	10 460	12 271
Alumina	tonnes	161 638	109 806	211 393	266 978	258 634
Alumina hydrate	tonnes	95 834	81 026	95 073	77 121	64 907
Unwrought	tonnes	47 534	39 248	35 506	22 371	26 948
Unwrought alloys	tonnes	144 343	124 277	188 198	175 194	125 377
Scrap	tonnes	40 125	30 093	48 508	47 458	49 270
Antimony						
Metal	tonnes	166	58	17	10	13
Oxide	tonnes	293	203	219	227	194
Barytes	tonnes	6 371	3 346	4 406	4 224	3 947
Bentonite and fuller's earth						
Bentonite	tonnes	178 308	120 079	200 422	214 173	231 973
Bismuth						
Metal	tonnes	12	6	12	2	4
Bromine	kilograms	31 700	3 100	4 200	4 300	7 800
Cadmium						
Metal	tonnes	851	588	825	1 127	1 172
Oxide	tonnes	83	42	107	172	145
Cement						
Cement clinkers	tonnes	37 009	10 434	36 629	58 132	5 230
Portland cement	tonnes	61 891	29 482	348 431	419 332	391 030
Other cement	tonnes	50 333	37 308	36 399	42 002	43 520
Chromium						
Ores and concentrates (a)	tonnes	* 274 900	* 127 500	* 169 000	* 128 600	* 135 900
Metal	tonnes	12 782	4 396	4 999	6 598	6 139
Coal						
Anthracite	tonnes	36 163	20 373	48 767	38 136	34 827
Other coal	tonnes	2 811 668	1 831 397	3 236 437	2 971 646	2 218 768
Briquettes	tonnes	9 029	33	43	52	39
Cobalt						
Metal	tonnes	698	189	396	571	443
Copper						
Ores and concentrates	tonnes	393 295	362 803	302 514	300 878	310 772
Unwrought, unrefined	tonnes	23 539	22 072	3 100	5 843	6 690
Unwrought, refined	tonnes	21 123	23 107	46 383	31 760	30 772
Unwrought alloys	tonnes	5 239	2 040	5 181	3 186	2 588
Scrap	tonnes	91 839	96 542	108 971	121 099	139 188
Diamond						
Unsorted	Carats	£100 000	£23 000	£125 000	£105 000	£178 000
Gem, cut	Carats	10 938	8 709	9 615	12 118	* 8 000
Industrial	Carats	217 127	6 907	26 277	5 390	* 8 100
Dust	Carats	4 000 000	1 500 000	8 000 000	9 500 000	* 9 100 000
Diatomite	tonnes	6 929	6 082	8 099	8 247	7 532
Feldspar	tonnes	3 861	4 268	6 410	4 363	547
Fluorspar	tonnes	14 214	12 959	9 451	14 980	10 729

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Gold						
Metal	kilograms	£25 583 000	£26 296 000	£32 625 000	£42 028 000	£33 413 000
Waste and scrap	kilograms	£565 000	£53 000	£12 243 000	£33 337 000	£26 246 000
Graphite	tonnes	1 091	835	1 315	1 129	779
Gypsum						
Crude	tonnes	178 364	94 656	256 696	324 584	294 946
Calcined	tonnes	154 201	158 842	73 865	58 751	48 111
Iodine	kilograms	600	400	1 100	1 800	8 600
Iron ore						
Iron ore	tonnes	71 441	41 087	55 078	51 334	44 285
Burnt pyrites	tonnes	—	2 919	16 743	24 561	22 191
Iron, steel and ferro-alloys						
Pig iron	tonnes	80 450	40 076	58 974	78 818	58 329
Sponge and powder	tonnes	11 861	2 691	11 668	24 398	34 982
Ferro-chrome	tonnes	114 712	78 244	90 630	74 988	56 996
Ferro-silico-chrome	tonnes	3 873	1 215	1 805	4 133	803
Ferro-silico-magnesium	tonnes	698	246	424	20	44
Ferro-manganese	tonnes	68 246	27 869	60 577	57 927	45 423
Ferro-silico-manganese	tonnes	10 677	5 754	9 099	11 586	15 965
Ferro-molybdenum	tonnes	5 693	2 652	4 388	4 723	4 913
Ferro-nickel	tonnes	6 803	3 286	7 995	10 119	10 119
Ferro-niobium	tonnes	1 264	604	1 146	1 544	1 614
Ferro-phosphorus	tonnes	386	430	415	632	584
Ferro-silicon	tonnes	34 249	25 880	37 424	37 743	44 736
Ferro-titanium and ferro-silico-titanium	tonnes	1 370	653	1 127	1 459	1 731
Ferro-vanadium	tonnes	956	547	729	1 058	954
Other ferro-alloys	tonnes	8 371	1 938	2 097	1 894	1 691
Silicon metal	tonnes	7 631	4 404	6 818	5 375	6 112
Ingots, blooms, billets	tonnes	264 782	119 549	193 605	203 669	151 187
Scrap	tonnes	193 207	174 279	217 682	245 225	236 125
Kaolin	tonnes	468 491	408 564	367 948	389 358	359 345
Lead						
Ores and concentrates	tonnes	275	—	14 763	—	—
Unwrought	tonnes	6 922	5 028	5 340	5 783	6 616
Scrap	tonnes	2 089	5 176	9 464	8 401	9 624
Lithium						
Oxides	tonnes	146	149	214	243	213
Carbonate	tonnes	278	191	87	69	159
Magnesite and magnesia						
Magnesia	tonnes	14 701	15 832	12 004	20 425	19 081
Manganese						
Ores and concentrates	tonnes	388	854	522	438	412
Metal	tonnes	3 287	1 880	3 815	5 241	3 438
Mercury	kilograms	13 800	21 300	2 700	2 400	1 400
Mica	tonnes	755	721	673	545	419
Molybdenum						
Ores and concentrates	tonnes	4 645	2 514	5 487	5 893	6 110
Metal	tonnes	442	470	644	360	356
Oxides	tonnes	711	219	414	357	496
Nickel						
Mattes, sinters etc	tonnes	1 490	1 607	1 239	1 723	1 008
Unwrought	tonnes	25 474	16 544	23 375	23 191	17 878
Unwrought alloys	tonnes	1 317	661	397	216	542
Scrap	tonnes	12 215	8 709	10 491	10 332	8 801
Crude petroleum	tonnes	19 184 387	16 818 080	18 236 284	17 988 419	20 429 251
Natural gas	tonnes	647 510	860 497	1 066 174	899 467	816 561
Phosphate rock	tonnes	922	2 918	3 869	12 968	10 687
Platinum metals						
Platinum and platinum metals	kilograms	£8 722 000	£5 934 000	£7 551 000	£8 430 000	£12 301 000
Waste and scrap	kilograms	13 800	80 200	1 500	19 800	12 700
Potash						
Sulphate	tonnes	2 872	965	1 789	2 551	1 340
Chloride	tonnes	15 689	4 769	55 671	79 863	81 282
Other potassic fertilisers	tonnes	4 735	4 211	5 858	9 276	8 187

Sweden

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Rare earths						
Metals	tonnes	46	28	37	48	72
Cerium compounds	tonnes	59	47	47	55	31
Other rare earth compounds	tonnes	8	8	7	9	16
Salt	tonnes	875 294	910 606	905 190	933 936	745 276
Sillimanite minerals	tonnes	5 212	2 395	4 782	5 174	4 225
Silver						
Ores and concentrates	kilograms	(a)* 2 466 000	2 330 100	...	...	...
Metal	kilograms	122 200	85 300	83 700	90 900	94 900
Sulphur and pyrites						
Pyrites	tonnes	691	544	874	825	744
Sulphur	tonnes	78 784	21 772	56 961	65 296	42 457
Sulphur, sublimed and precipitated	tonnes	112	143	200	145	130
Talc	tonnes	45 801	28 459	25 998	22 202	22 507
Tin						
Unwrought (b)	tonnes	555	364	435	189	149
Titanium						
Titanium minerals	tonnes	995	726	1 854	645	629
Metal	tonnes	2 391	1 593	1 936	2 390	2 245
Oxides	tonnes	61 890	53 071	61 191	62 054	53 030
Tungsten						
Metal	tonnes	588	175	179	302	538
Carbide	tonnes	904	233	1 308	2 050	852
Zinc						
Unwrought	tonnes	29 211	29 750	37 524	30 598	24 686
Unwrought alloys	tonnes	12 059	2 691	5 905	6 282	5 907
Scrap	tonnes	1 696	1 208	226	336	44
Zirconium						
Concentrates	tonnes	832	248	419	368	123
Metal	tonnes	185	218	220	120	146

Note(s)

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

(b) Including alloys

Switzerland

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	* 37 000 000	* 37 000 000	* 40 000 000	* 40 000 000	40 000 000
Crushed rock	tonnes	* 5 000 000	* 5 000 000	* 5 000 000	* 5 000 000	* 5 000 000
Cement						
Cement, finished (a)	tonnes	4 238 311	4 333 096	4 553 077	4 687 138	4 395 084
Gypsum	tonnes	* 300 000	* 300 000	* 300 000	* 350 000	* 320 000
Crude steel	tonnes	1 312 000	934 000	1 320 000	* 1 400 000	* 1 400 000
Lead, refined	tonnes	* 8 000	800	—	—	—
Salt	tonnes	368 000	554 000	643 000	478 324	* 528 000

Note(s)

(a) Includes production in Liechtenstein

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	202 846	194 006	193 312	188 183	274 029
Aluminium and bauxite						
Alumina	tonnes	5 767	1 240	854	341	538
Unwrought (a)	tonnes	9 938	14 444	20 954	23 397	23 439
Scrap	tonnes	125 769	116 520	131 819	138 643	141 836
Asbestos						
Unmanufactured	tonnes	120	30	42	17	10
Cement						
Cement clinkers	tonnes	91 167	70 207	6 983	104	35
Portland cement	tonnes	35 925	15 044	103 952	63 262	72 143
Other cement	tonnes	9 009	4 062	2 959	51	67
Chromium						
Metal	tonnes	54	44	82	92	111
Cobalt						
Metal	tonnes	120	70	80	97	113
Copper						
Unwrought	tonnes	1 159	623	832	1 030	935
Scrap	tonnes	82 687	71 204	75 973	84 373	86 964
Diamond						
Gem, rough	Carats	7 888	1 230	14 892	3 628	5 000
Gem, cut	Carats	582 240	252 685	357 976	435 272	145 000
Dust	Carats	44 105 000	30 400 000	60 980 000	70 880 000	59 620 000
Diatomite	tonnes	59	99	453	564	629
Gold						
Metal	kilograms	2 103 919	1 010 085	1 605 359	1 867 822	1 627 553
Waste and scrap	kilograms	125 459	107 918	105 407	94 837	71 297
Graphite	tonnes	600	355	326	100	96
Gypsum						
Crude and calcined	tonnes	5 207	2 454	8 536	8 606	7 283
Iodine	kilograms	1 605	97	349	239	238
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	2 126	1 564	2 191	981	1 013
Ferro-alloys	tonnes	642	943	1 191	1 299	848
Ingots, blooms, billets	tonnes	65 257	48 349	66 642	85 201	70 375
Scrap	tonnes	636 462	565 415	623 910	630 837	626 757
Lead						
Unwrought	tonnes	7 387	1 765	230	19	23
Scrap	tonnes	3 236	4 748	5 497	5 732	5 301
Lithium						
Oxides	tonnes	88	2 041	190	1	83
Mercury	kilograms	11 592	25 372	8 529	53 581	164 517

Switzerland

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Nickel						
Scrap	tonnes	1 603	1 519	1 090	909	1 214
Unwrought (a)	tonnes	94	53	173	130	62
Platinum metals						
Platinum	kilograms	69 404	61 433	72 006	63 853	64 331
Palladium	kilograms	86 503	57 571	70 662	60 859	56 950
Other Platinum metals	kilograms	717	192	464	494	836
Waste and scrap	kilograms	616 867	362 419	314 061	289 174	241 307
Rare earths						
Cerium compounds	tonnes	1	1	2	9	5
Other rare earth compounds	tonnes	1	26	1	1	5
Salt	tonnes	37 772	68 947	67 537	71 525	58 820
Silver						
Metal	kilograms	1 444 198	916 560	1 456 475	1 779 063	77 978
Sulphur and pyrites						
Sulphur	tonnes	335	4 837	5 310	4 864	2 160
Tin						
Unwrought (a)	tonnes	114	87	60	16	8
Scrap	tonnes	76	136	118	131	169
Titanium						
Metal	tonnes	987	734	805	868	724
Oxides	tonnes	1 276	1 203	1 466	1 666	1 623
Tungsten						
Metal	tonnes	400	239	476	398	400
Zinc						
Unwrought (a)	tonnes	1 078	524	415	258	117
Scrap	tonnes	2 445	2 574	2 582	2 846	2 284

Note(s)

(a) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	7 256 472	7 246 506	8 010 059	8 566 572	8 611 775
Aluminium and bauxite						
Bauxite	tonnes	12 439	8 360	6 718	11 898	10 924
Alumina	tonnes	11 036	9 074	10 662	9 957	8 625
Alumina hydrate	tonnes	17 235	15 269	20 697	19 131	17 473
Unwrought	tonnes	127 018	108 096	148 099	166 853	159 296
Unwrought alloys	tonnes	62 962	50 341	84 113	70 200	59 087
Scrap	tonnes	31 728	23 195	33 341	36 829	43 797
Antimony						
Oxide	tonnes	1 328	793	1 108	1 131	583
Barytes	tonnes	3 644	2 605	3 020	3 156	3 359
Bentonite and fuller's earth						
Bentonite	tonnes	21 876	20 407	20 362	19 316	19 203
Bismuth						
Metal	tonnes	12	12	25	18	12
Cement						
Cement clinkers	tonnes	8 596	27 649	74 946	46 117	2 580
Portland cement	tonnes	361 305	364 034	465 699	538 979	526 305
Other cement	tonnes	30 908	36 464	49 549	73 361	92 633
Chromium						
Ores and concentrates	tonnes	1 510	974	1 051	809	1 359
Metal	tonnes	134	38	74	71	93
Coal						
Anthracite	tonnes	18 721	5 444	7 164	7 144	12 121
Other coal	tonnes	132 824	172 990	124 096	92 473	129 051
Lignite	tonnes	80 814	66 483	62 756	69 378	48 704
Briquettes	tonnes	3 986	4 933	3 328	2 887	3 750
Cobalt						
Metal	tonnes	386	243	318	298	260

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Copper						
Unwrought	tonnes	5 903	3 473	3 229	2 353	2 006
Unwrought alloys	tonnes	3 925	3 276	4 137	3 520	3 489
Scrap	tonnes	5 266	2 710	6 061	4 178	2 244
Diamond						
Gem, rough	Carats	11 566	4 498	20 460	3 263	* 3 000
Gem, cut	Carats	1 147 690	534 700	840 245	1 227 118	* 1 012 000
Dust	Carats	54 445 000	39 130 000	74 015 000	101 250 000	82 185 000
Diatomite	tonnes	4 864	5 071	5 758	4 642	5 177
Feldspar	tonnes	7 653	6 478	6 593	6 124	4 575
Fluorspar	tonnes	571	370	492	210	181
Gold						
Metal	kilograms	2 101 027	2 198 967	2 343 070	2 684 244	2 280 196
Waste and scrap	kilograms	214 839	319 257	219 260	205 846	28 550
Graphite	tonnes	931	306	848	823	454
Gypsum						
Crude	tonnes	101 731	101 228	112 555	94 474	81 642
Calcined	tonnes	97 296	87 350	100 958	104 574	113 112
Iodine	kilograms	7 260	7 156	10 238	10 839	13 172
Iron ore						
Iron ore	tonnes	6 145	1 445	5 382	12 537	12 046
Burnt pyrites	tonnes	12 559	15 045	15 171	14 916	13 386
Iron, steel and ferro-alloys						
Pig iron	tonnes	28 630	12 256	16 812	17 969	13 207
Sponge and powder	tonnes	8 873	5 931	6 668	4 812	4 780
Ferro-chrome	tonnes	1 803	288	1 480	1 846	1 519
Ferro-manganese	tonnes	11 696	8 003	11 566	9 721	10 871
Ferro-silico-manganese	tonnes	5 011	1 595	3 767	4 948	4 292
Ferro-molybdenum	tonnes	208	76	174	230	157
Ferro-phosphorus	tonnes	342	173	321	191	200
Ferro-silicon	tonnes	5 264	4 287	5 014	5 937	4 527
Ferro-vanadium	tonnes	52	82	548	544	187
Other ferro-alloys	tonnes	845	280	381	561	272
Silicon metal	tonnes	1 255	1 256	1 385	1 661	1 014
Ingots, blooms, billets	tonnes	29 911	9 188	18 026	61 349	49 448
Scrap	tonnes	505 597	313 055	452 626	456 700	343 770
Kaolin	tonnes	39 932	33 555	24 249	21 460	21 551
Lead						
Unwrought	tonnes	9 915	9 446	5 664	2 838	5 519
Lithium						
Oxides	tonnes	143	110	118	141	98
Magnesite and magnesia						
Magnesite	tonnes	69	502	362	793	521
Magnesia	tonnes	7 772	4 762	4 625	4 917	5 734
Manganese						
Ores and concentrates	tonnes	472	340	214	333	357
Metal	tonnes	472	282	556	509	490
Mercury	kilograms	3 557	801	1 370	471	5 096
Mica	tonnes	1 088	669	1 226	866	893
Nickel						
Unwrought (a)	tonnes	2 054	1 202	1 370	1 199	1 320
Crude petroleum	tonnes	5 141 634	4 755 189	4 534 930	4 302 674	3 231 713
Natural gas	tonnes	2 596 153	2 450 414	2 759 930	2 521 494	2 644 533
Phosphate rock	tonnes	358	585	3 657	20 007	15 024
Platinum metals						
Platinum	kilograms	67 022	91 048	49 089	57 415	39 955
Palladium	kilograms	60 666	50 258	41 454	43 310	27 123
Other Platinum metals	kilograms	1 255	1 319	813	873	1 065
Waste and scrap	kilograms	494 962	688 973	912 680	459 360	413 819
Potash						
Sulphate	tonnes	4 685	3 967	4 914	5 899	6 638
Chloride	tonnes	15 158	7 595	16 865	14 730	11 866
Other potassic fertilisers	tonnes	2 861	1 676	2 049	1 159	1 136

Switzerland

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Rare earths						
Metals	tonnes	...	1	4	5	21
Cerium compounds	tonnes	16	15	31	18	15
Other rare earth compounds	tonnes	18	15	16	12	17
Ferro-cerium and other pyrophoric alloys	tonnes	6	44	...	5	3
Salt	tonnes	8 988	70 386	37 731	58 307	23 179
Sillimanite minerals	tonnes	1 128	527	1 162	1 596	1 079
Silver						
Ores and concentrates (b)	kilograms	* 9 600	* 100 900	* 55 800	* 15 107 700	* 39 212
Metal	kilograms	1 520 531	2 136 092	1 746 243	2 155 625	2 397 273
Sulphur and pyrites						
Sulphur	tonnes	17 425	12 086	17 414	13 072	14 257
Talc	tonnes	8 756	7 987	8 490	7 666	6 975
Tin						
Unwrought (a)	tonnes	1 093	800	863	737	799
Titanium						
Metal	tonnes	1 168	862	971	1 081	1 177
Oxides	tonnes	19 550	17 086	19 725	22 198	16 806
Tungsten						
Metal	tonnes	272	105	143	226	234
Zinc						
Unwrought	tonnes	13 715	9 431	15 521	12 747	11 702
Unwrought alloys	tonnes	2 471	1 549	2 276	2 158	1 930

Note(s)

(a) Including alloys

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

Turkey

Production

Commodity	Units	2008	2009	2010	2011	2012
Bauxite	tonnes	818 928	406 700	855 000	* 600 000	* 600 000
Alumina	tonnes (Al ₂ O ₃ content)	* 160 000	* 100 000	* 160 000	* 100 000	* 100 000
Primary aluminium	tonnes	61 100	30 000	54 100	56 400	43 700
Antimony	tonnes (metal content)	* 1 300	* 1 300	* 1 300	* 1 300	* 1 300
Barytes	tonnes	150 000	213 187	225 000	225 000	250 000
Bentonite and fuller's earth						
Bentonite	tonnes	683 253	753 155	718 260	379 917	* 370 000
Sepiolite	tonnes	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Borates	tonnes	2 139 224	1 687 102	1 910 000	2 711 831	* 2 700 000
Cement						
Cement, clinker	tonnes	41 652 824	41 084 368	54 222 939	53 228 248	* 53 000 000
Cement, finished	tonnes	54 027 283	55 741 176	70 800 657	66 656 800	* 67 000 000
Chromium	tonnes	1 885 712	1 770 029	2 461 314	2 281 981	* 2 280 000
Coal						
Anthracite	tonnes	3 343 409	3 773 603	6 312 137	5 619 316	* 5 600 000
Bituminous	tonnes	* 1 000 000	* 1 000 000	* 1 000 000	3 542 223	* 3 550 000
Lignite	tonnes	86 074 626	82 263 104	86 943 392	79 968 510	* 80 000 000
Copper, mine	tonnes (metal content)	82 400	72 400	79 900	92 500	101 700
Copper, smelter	tonnes	38 000	—	—	* 25 000	* 25 000
Copper, refined	tonnes	88 000	33 500	47 300	85 000	86 300
Feldspar	tonnes	6 500 000	4 000 000	6 281 597	7 076 068	* 8 000 000
Gold	kilograms (metal content)	11 016	14 450	16 400	23 248	27 884
Graphite	tonnes	3 236	2 400	—	—	—
Gypsum	tonnes	7 338 127	4 369 589	2 850 601	991 415	* 1 000 000
Iron ore	tonnes	3 990 110	4 169 972	5 378 455	6 308 448	* 7 000 000
Pig iron	tonnes	6 697 372	6 913 325	16 362 115	14 877 155	8 613 000
Crude steel	tonnes	26 809 050	25 303 741	29 029 789	34 103 000	35 885 000
Ferro-alloys						
Ferro-chrome	tonnes	75 840	41 028	* 60 000	* 60 000	* 60 000
Ferro-silico-chrome	tonnes	6 094	2 903	* 3 000	* 3 000	* 3 000
Kaolin	tonnes	232 746	234 614	787 287	1 229 352	* 1 300 000
Lead, mine	tonnes (metal content)	31 800	21 600	38 500	39 500	* 57 017
Lead, refined	tonnes	* 6 000	* 6 000	* 6 000	8 230	* 10 000
Magnesite	tonnes	2 143 047	861 180	1 541 860	* 1 000 000	* 1 000 000
Mica	tonnes	8 392	4 172	* 4 500	* 4 500	* 4 500
Nickel, mined	tonnes (metal content)	* 1 500	1 199	* 1 900	* 4 300	* 3 200
Perlite	tonnes	551 266	522 832	737 077	642 657	* 650 000
Crude petroleum	tonnes	2 222 594	2 489 914	2 602 114	2 383 000	2 334 000
Natural gas	million m ³	894	660	626	756	* 760
Salt	tonnes	3 271 009	3 765 564	3 134 749	* 4 000 000	* 4 000 000
Silver	kilograms (metal content)	* 294 000	351 600	348 000	292 400	236 400
Strontium minerals	tonnes	* 1 600	—	—	—	—
Zinc, mine	tonnes (metal content)	126 800	136 300	196 400	158 300	195 793

Note(s)

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

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	1 183 150	908 010	955 765	1 237 704	1 299 391
Aluminium and bauxite						
Bauxite	tonnes	262 708	103 317	331 458	158 232	166 744
Alumina	tonnes	25 276	1 890	190 094	96	—
Alumina hydrate	tonnes	93 639	75 837	2 910	21 172	—
Unwrought	tonnes	50 056	26 337	42 090	4 868	—
Unwrought alloys	tonnes	10 827	9 368	36 994	38 640	36 106
Scrap	tonnes	16 218	14 483	14 291	12 020	9 905
Antimony						
Ores and concentrates	tonnes	1 000	1 408	2 765	2 977	2 450
Metal	tonnes	0	8	21	6	113
Asbestos						
Unmanufactured	tonnes	685	—	3	1	—
Barytes	tonnes	123 485	121 744	175 497	144 238	157 967
Bentonite and fuller's earth						
Bentonite	tonnes	244 177	250 082	307 891	319 189	337 860
Cement						
Cement clinkers	tonnes	2 558 779	3 856 403	2 792 332	2 472 979	2 980 566
Portland cement	tonnes	11 010 951	16 356 895	15 842 398	11 750 755	10 716 605
Other cement	tonnes	150 785	245 770	415 763	315 159	104 504
Chromium						
Ores and concentrates	tonnes	1 816 427	1 748 194	2 256 387	2 161 001	2 129 693
Metal	tonnes	122	2 667	184	1 930	2 344
Coal						
Anthracite	tonnes	1 043	194	717	5 210	5 700
Other coal	tonnes	55 510	1 715	37 319	802	1 534
Lignite	tonnes	13 980	6 253	4 554	43 942	48 706
Copper						
Ores and concentrates	tonnes	251 958	356 922	421 536	257 914	351 882
Unwrought	tonnes	34 910	4 505	2 106	2 845	5 701
Unwrought alloys	tonnes	6 869	2 237	6 764	10 135	7 673
Scrap	tonnes	9 670	16 426	12 426	5 124	9 226
Diamond						
Dust	Carats	3 494 000	1 000 025	1 253 750	7 702 486	400 000
Diatomite	tonnes	40 370	39 267	37 432	28 104	36 985
Feldspar (a)	tonnes	* 4 600 000	* 2 500 000	* 3 400 000	* 3 500 000	* 3 500 000
Gold						
Metal	kilograms	142 244	162 208	56 035	30 226	282 160
Waste and scrap	kilograms	1 122	1 188	619	1 360	...
Graphite	tonnes	390	257	220	761	766
Gypsum						
Crude	tonnes	37 899	145 717	134 905	111 864	107 000
Calcined	tonnes	838 314	643 873	682 898	708 056	789 505
Iodine	kilograms	1 212	31 908	2 960	4 877	2 480
Iron ore	tonnes	4 163	(b) 3 361	(b) 200 600	(b) 296 550	(b) 423 536
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 372	10 616	8 028	9 357	7 723
Sponge and powder	tonnes	520	219	1 326	7 581	1 422
Ferro-chrome	tonnes	39 324	75 236	74 570	76 255	75 555
Ferro-manganese	tonnes	2 466	1 614	4 410	3 536	2 003
Ferro-silico-manganese	tonnes	677	2 247	2 362	2 172	1 237
Ferro-silicon	tonnes	1 464	1 280	4 619	5 807	2 653
Other ferro-alloys	tonnes	1 075	1 059	507	4 886	795
Ingots, blooms, billets	tonnes	2 501 135	2 431 211	3 716 586	2 459 563	2 985 209
Scrap	tonnes	77 654	66 673	94 498	105 914	95 152
Kaolin	tonnes	130 923	61 828	137 963	83 203	110 139
Lead						
Ores and concentrates	tonnes	(c) 52 988	(c) 35 973	(c) 64 247	(c) 65 917	93 590
Unwrought	tonnes	832	361	400	802	2 522
Magnesite and magnesia						
Magnesite	tonnes	68 054	35 097	24 213	37 902	28 747
Magnesia	tonnes	175 441	162 651	209 633	238 620	245 537
Manganese						
Ores and concentrates	tonnes	81 280	59 183	51 731	100 172	118 953
Metal	tonnes	401	81	4 952	12	3 535
Mercury	kilograms	22 885	89	2 156	10 890	4 392

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Mica	tonnes	840	570	601	1 039	1 054
Nickel						
Ores and concentrates	tonnes	130 179	99 700	172 682	378 350	302 100
Unwrought (d)	tonnes	232	141	292	96	204
Scrap	tonnes	734	470	519	841	783
Crude petroleum (a)	tonnes	* 4 115 000	* 2 956 000	* 1 139 000	* 702 000	* 99 000
Natural gas	tonnes	412 655	665 247	590 182	(a)* 653 000	(a)* 5 888 000
Phosphate rock	tonnes	...	159	620	1 454	937
Platinum metals						
Platinum and platinum metals	kilograms	18	3 142	5 124	2 765	589
Waste and scrap	kilograms	330	9 967	4 491	5 332	13 244
Potash						
Potassic fertilisers	tonnes	3 544	6 438	6 533	6 504	3 654
Rare earths						
Cerium compounds	tonnes	27	8	5	10	5
Salt	tonnes	27 393	26 223	262 050	417 596	66 690
Sillimanite minerals	tonnes	1 608	1 647	2 623	3 357	4 444
Silver						
Metal	kilograms	20 897	170 009	144 942	202 886	216 509
Sulphur and pyrites						
Sulphur	tonnes	21 289	6 495	279 822	56 143	59 116
Sulphur, sublimed and precipitated	tonnes	17 259	14 769	21 068	7 949	8 757
Talc	tonnes	1 636	1 712	2 865	2 711	2 635
Tantalum and niobium						
Tantalum	tonnes	...	126	2	—	22
Tin						
Unwrought (d)	tonnes	118	37	79	56	43
Titanium						
Metal	tonnes	49	47	85	95	122
Oxides	tonnes	2 607	2 237	2 650	3 170	2 538
Tungsten						
Metal	tonnes	99	213	139	237	210
Vanadium						
Pentoxide	tonnes	200	119	—	24	—
Zinc						
Ores and concentrates	tonnes	253 573	272 559	392 725	316 714	412 744
Unwrought (d)	tonnes	498	451	666	1 704	2 130
Scrap	tonnes	468	1 929	1 536	2 997	2 960

Note(s)

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

(b) Including burnt pyrites

(c) Complex lead-zinc ore

(d) Including alloys

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	4 590	3 636	9 372	3 487	7 129
Aluminium and bauxite						
Bauxite	tonnes	39 256	17 350	35 652	36 358	28 947
Alumina	tonnes	18 232	10 394	15 772	15 434	14 740
Alumina hydrate	tonnes	21 275	15 269	27 721	35 739	41 275
Unwrought	tonnes	327 525	358 748	460 915	553 191	576 670
Unwrought alloys	tonnes	270 871	201 124	281 588	332 228	356 862
Scrap	tonnes	16 868	14 215	24 952	25 107	20 811
Antimony						
Ores and concentrates	tonnes	...	0	82	121	0
Metal	tonnes	346	369	219	245	256
Oxide	tonnes	522	588	885	739	705
Arsenic						
Metallic arsenic	tonnes	71	74	55	10	49

Turkey

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Asbestos						
Unmanufactured	tonnes	585	—	—	—	—
Barytes	tonnes	455	507	342	2 863	5 567
Bentonite and fuller's earth						
Bentonite	tonnes	9 806	1 827	1 641	1 915	1 952
Bismuth						
Metal	tonnes	21	15	11	16	7
Bromine (a)	kilograms	6 761	6 497	8 373	11 462	6 869
Cement						
Cement clinkers	tonnes	380 516	6 053	58 176	10 511	58 098
Portland cement	tonnes	12 279	13 471	5 875	3 406	21 972
Other cement	tonnes	5 036	3 358	6 168	10 847	7 142
Chromium						
Ores and concentrates	tonnes	119 806	113 461	113 487	122 070	162 266
Metal	tonnes	60	54	65	108	91
Coal						
Anthracite	tonnes	707 425	457 575	972 425	990 996	854 104
Other coal	tonnes	18 781 879	19 501 679	21 048 121	22 721 500	28 405 516
Lignite	tonnes	...	...	5 339	—	75
Cobalt						
Metal	tonnes	148	125	145	171	159
Oxides	tonnes	152	150	199	277	364
Copper						
Ores and concentrates	tonnes	3 884	0	1 329	5	29
Unwrought, unrefined	tonnes	38 116	4 852	5 892	4 329	2 824
Unwrought, refined	tonnes	287 705	289 672	332 482	337 337	348 938
Unwrought alloys	tonnes	3 060	2 828	6 601	9 450	6 695
Scrap	tonnes	1 263	870	3 943	6 181	3 806
Diamond						
Gem	Carats	141 553	51 740	131 146	141 277	...
Industrial	Carats	102 596	29 724	46 890	82 417	65 000
Dust	Carats	18 430 000	19 120 000	25 190 000	31 125 000	36 995 000
Diatomite	tonnes	1 491	1 392	1 319	1 702	2 124
Feldspar	tonnes	28 594	28 166	39 953	34 726	47 361
Fluorspar	tonnes	34 073	36 114	37 977	48 210	53 627
Gold						
Metal	kilograms	179 606	52 654	64 105	128 367	157 629
Graphite	tonnes	13 230	6 788	11 191	13 138	8 171
Gypsum						
Crude	tonnes	165 775	201 077	232 713	375 169	295 462
Calcined	tonnes	1 797	1 419	1 782	1 916	2 259
Iodine	kilograms	9 498	12 133	3 218	6 641	6 163
Iron ore						
Iron ore	tonnes	5 004 508	7 757 561	7 220 977	6 644 310	7 842 126
Burnt pyrites	tonnes	17 092	14 097	—	—	—
Iron, steel and ferro-alloys						
Pig iron	tonnes	802 741	770 160	557 398	1 137 729	1 376 572
Sponge and powder	tonnes	96 393	81 008	284 608	180 591	387 667
Ferro-chrome	tonnes	11 321	2 787	8 159	9 061	6 493
Ferro-silico-chrome	tonnes	324	—	1	200	600
Ferro-silico-magnesium	tonnes	4 604	3 082	786	1 344	2 064
Ferro-manganese	tonnes	73 319	46 760	61 866	59 326	54 195
Ferro-silico-manganese	tonnes	195 623	191 605	229 451	243 637	252 758
Ferro-molybdenum	tonnes	1 645	1 173	1 577	1 091	1 181
Ferro-niobium	tonnes	609	338	147	424	550
Ferro-phosphorus	tonnes	1 731	412	1 050	1 035	1 117
Ferro-silicon	tonnes	90 477	60 164	87 552	107 151	100 727
Ferro-titanium and ferro-silico-titanium	tonnes	634	651	167	480	629
Ferro-vanadium	tonnes	529	323	261	591	562
Other ferro-alloys	tonnes	7 417	2 978	7 366	8 213	6 639
Silicon metal	tonnes	6 207	5 852	9 978	10 363	10 777
Ingots, blooms, billets	tonnes	3 849 141	3 590 665	2 350 758	2 157 532	3 355 265
Scrap	tonnes	17 414 983	15 372 727	19 138 460	21 452 724	22 415 045
Kaolin	tonnes	402 812	301 086	424 152	497 148	479 665
Lead						
Unwrought	tonnes	79 460	73 520	73 057	85 131	99 137

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Lithium						
Oxides	tonnes	257	208	268	261	236
Carbonate	tonnes	617	613	770	865	1 006
Magnesite and magnesite						
Magnesia	tonnes	61 519	40 595	60 121	58 556	50 199
Manganese						
Ores and concentrates	tonnes	2 531	540	694	1 295	534
Metal	tonnes	874	583	980	1 202	863
Mercury	kilograms	3 069	1 635	719	9 772	3 143
Mica	tonnes	385	477	317	508	285
Molybdenum						
Ores and concentrates	tonnes	3	291	46	12	14
Metal	tonnes	89	16	28	34	35
Nickel						
Unwrought (b)	tonnes	4 038	2 711	3 391	4 047	4 012
Crude petroleum	tonnes	21 833 471	14 219 427	16 873 392	18 049 163	19 479 238
Phosphate rock	tonnes	741 190	707 595	686 966	814 382	711 627
Platinum metals						
Platinum and platinum metals	kilograms	463	235	200	213	240
Potash						
Sulphate	tonnes	33 427	11 576	34 986	28 989	36 459
Chloride	tonnes	82 412	50 634	82 923	93 471	94 930
Other potassic fertilisers	tonnes	398	303	1 075	109	107
Rare earths						
Metals	tonnes	9	9	14	13	10
Cerium compounds	tonnes	310	200	233	128	120
Other rare earth compounds	tonnes	5	4	13	8	4
Ferro-cerium and other pyrophoric alloys	tonnes	12	10	...	...	13
Salt	tonnes	257 146	99 400	154 536	254 045	248 663
Sillimanite minerals						
Sillimanite minerals	tonnes	4 255	4 891	5 466	6 907	6 905
Mullite	tonnes	5 280	3 635	12 675	10 733	8 827
Silver						
Metal	kilograms	154 639	57 700	90 064	209 909	226 227
Sulphur and pyrites						
Pyrites	tonnes	224	67	480	323	142
Sulphur	tonnes	128 685	164 034	141 478	161 866	151 955
Sulphur, sublimed and precipitated	tonnes	321	1 315	592	292	382
Talc	tonnes	17 706	14 893	20 026	26 952	23 496
Tin						
Unwrought (b)	tonnes	2 603	1 630	2 558	2 707	2 195
Titanium						
Titanium minerals	tonnes	7 762	5 628	7 390	9 454	7 328
Metal	tonnes	163	188	298	357	356
Oxides	tonnes	106 206	98 100	127 266	144 383	117 269
Tungsten						
Metal	tonnes	34	34	74	70	71
Zinc						
Unwrought	tonnes	147 215	137 765	182 598	201 409	224 683
Unwrought alloys	tonnes	4 091	1 714	2 876	6 504	5 261
Scrap	tonnes	1 381	181	161	44	95
Zirconium						
Concentrates	tonnes	4 844	2 918	4 823	4 770	3 268

Note(s)

(a) May include some fluorine

(b) Including alloys

United Kingdom

Production

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates						
Sand and gravel	tonnes	85 473 000	66 226 000	61 700 000	63 113 000	56 593 000
Crushed rock (a)	tonnes	127 996 000	104 626 000	94 203 000	102 828 000	94 785 000
Primary aluminium	tonnes	326 900	252 000	186 000	213 000	60 000
Barytes	tonnes	43 000	36 000	34 099	31 000	30 000
Cement						
Cement, clinker	tonnes	8 700 000	6 421 000	6 598 000	7 096 000	6 555 000
Cement, finished (b)	tonnes	10 071 000	7 623 000	7 883 000	8 529 000	7 952 000
Coal						
Bituminous (c)	tonnes	18 053 000	17 874 000	18 417 000	18 627 000	17 047 000
Feldspar (d)(e)	tonnes	430	—	—	—	—
Fluorspar	tonnes	36 801	18 536	26 420	—	—
Gold	kilograms (metal content)	163	187	177	202	102
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 (f)	tonnes	145	—	—	—	—
Pig iron	tonnes	10 136 800	7 671 100	7 233 000	6 625 000	7 183 100
Crude steel	tonnes	13 520 500	10 074 500	9 708 000	9 478 000	9 579 100
Kaolin	tonnes	1 355 365	1 059 848	* 1 140 000	* 1 290 000	* 1 150 000
Lead, mine (g)	tonnes (metal content)	* 300	243	251	280	61
Lead, refined	tonnes	283 000	301 865	297 453	274 055	311 930
Nickel, smelter/refinery	tonnes	40 800	17 800	31 600	37 400	34 300
Crude petroleum	tonnes	66 745 000	64 001 000	63 903 000	52 650 000	45 431 000
Natural gas	million m ³	74 937	63 031	59 684	47 790	40 603
Potash						
Chloride	tonnes (K ₂ O content)	403 800	* 403 800	* 403 800	* 462 000	* 462 000
Salt	tonnes	5 565 000	6 166 000	6 666 000	6 060 000	* 6 100 000
Silver	kilograms (metal content)	398	514	506	531	230
Talc	tonnes	2 410	2 861	2 633	3 708	3 667

Note(s)

- (1) United Kingdom is also believed to produce arsenic and sulphur
- (2) In addition to the countries producing sillimanite minerals, production capacity for synthetic mullite is known to exist in the United Kingdom, but output is believed to be zero
- (a) Includes small quantities for other purposes in Northern Ireland
- (b) Great Britain only
- (c) Including anthracite
- (d) China stone
- (e) Including weathered granite feldspar
- (f) The Florence mine near Egremont, Cumbria closed in 2008. The mine produced high-grade hematite for foundry uses, mineral specimens
- (g) By-product of Pennine fluorspar operations and of gold mining in Northern Ireland

Exports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	13 008 608	10 714 861	10 992 431	10 800 338	8 823 773
Aluminium and bauxite						
Bauxite	tonnes	6 121	3 873	3 140	5 936	2 929
Alumina	tonnes	9 517	16 810	5 879	5 114	3 590
Alumina hydrate (a)	tonnes	* 5 300	* 4 400	* 2 100	* 2 600	* 10 700
Unwrought	tonnes	20 690	17 688	43 665	49 959	9 597
Unwrought alloys	tonnes	265 018	305 849	364 612	356 170	279 263
Scrap	tonnes	872 988	422 574	443 466	440 399	445 730
Antimony						
Metal	tonnes	35	75	77	57	237
Oxide	tonnes	558	407	490	290	422
Barytes	tonnes	9 976	13 095	17 851	15 648	19 072
Bentonite and fuller's earth						
Bentonite	tonnes	43 261	34 622	41 323	38 478	39 535
Sepiolite	tonnes	226	130	...	...	...
Bismuth						
Metal	tonnes	905	941	427	1 038	744
Bromine	kilograms	1 015 304	497 246	780 704	1 472 523	1 377 726
Cadmium						
Metal	tonnes	54	25	2 545	1 441	272
Cement						
Cement clinkers	tonnes	15 071	4 708	5 500	15 531	31 458
Portland cement	tonnes	230 920	92 628	134 223	121 537	239 058
Other cement	tonnes	93 122	51 359	56 781	62 333	75 502
Chromium						
Ores and concentrates	tonnes	—	32 507	297	168	50
Metal	tonnes	6 501	5 058	7 441	8 017	7 737
Coal						
Anthracite	tonnes	165 473	119 472	89 701	97 014	119 826
Other coal	tonnes	742 582	391 414	615 067	502 581	417 654
Briquettes	tonnes	52 605	68 226	89 125	117 025	150 783
Cobalt						
Oxides	tonnes	798	891	1 267	820	1 179
Metal	tonnes	2 614	2 572	1 780	1 739	1 865
Copper						
Unwrought, unrefined	tonnes	3 066	205	185	194	647
Unwrought, refined	tonnes	4 850	14 059	8 863	17 951	24 498
Unwrought alloys	tonnes	17 822	11 839	12 782	16 872	15 441
Scrap	tonnes	358 981	429 467	421 868	513 394	373 943
Diamond						
Unsorted	Carats	3 388 395	4 090 534	3 689 202	2 735 369	2 974 099
Gem, rough	Carats	66 479 817	43 775 775	51 769 860	41 541 219	46 117 478
Gem, cut	Carats	795 612	257 202	283 435	1 292 162	1 702 424
Industrial	Carats	6 121 081	4 440 922	2 478 568	3 864 054	3 949 553
Dust	Carats	122 681 695	105 427 105	113 451 535	42 269 921	32 288 331
Diatomite	tonnes	903	533	1 650	797	659
Feldspar	tonnes	82	369	38	34	92
Fluorspar	tonnes	187	303	412	590	75
Gold						
Metal	kilograms	600 018	96 231	293 153	775 261	266 572
Waste and scrap	kilograms	272 339	533 182	496 924	272 597	1 928 197
Graphite	tonnes	3 156	2 271	2 981	3 660	2 196
Gypsum						
Crude	tonnes	1 493	1 978	3 330	3 428	4 036
Calcined	tonnes	48 340	32 551	24 552	25 504	21 216
Iodine	kilograms	174 965	121 370	393 005	234 182	370 132
Iron ore	tonnes	7 821	32 579	5 256	179 709	108 415

United Kingdom

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 523	27 765	4 339	2 074	3 775
Sponge and powder	tonnes	2 794	3 103	2 938	3 775	33 831
Ferro-alloys	tonnes	40 986	28 899	45 314	43 918	49 357
Ferro-chrome	tonnes	1 376	1 475	2 403	1 853	2 288
Ferro-silico-chrome	tonnes	9	50	22	364	72
Ferro-silico-magnesium	tonnes	976	458	366	338	327
Ferro-manganese	tonnes	1 210	963	8 361	819	658
Ferro-silico-manganese	tonnes	49	65	52	132	7 503
Ferro-molybdenum	tonnes	11 283	7 634	11 248	12 948	12 421
Ferro-nickel	tonnes	81	18	15	49	539
Ferro-niobium	tonnes	58	52	224	179	257
Ferro-phosphorus	tonnes	45	312	667	766	562
Ferro-silicon	tonnes	3 250	3 338	2 958	6 594	4 659
Ferro-titanium and ferro-silico-titanium	tonnes	18 557	13 098	15 197	17 662	18 040
Ferro-tungsten and ferro-silico-tungsten	tonnes	31	1	4	3	20
Ferro-vanadium	tonnes	79	64	24	52	31
Other ferro-alloys	tonnes	3 981	1 373	3 774	2 158	1 979
Silicon metal	tonnes	15 132	7 753	2 901	3 662	3 027
Ingots, blooms, billets	tonnes	3 348 794	2 118 701	1 137 160	668 885	1 817 820
Scrap	tonnes	6 616 708	6 007 656	7 507 853	7 744 411	7 160 639
Kaolin	tonnes	1 955 020	1 393 939	1 722 335	2 315 560	2 646 009
Lead						
Unwrought	tonnes	79 520	126 743	105 235	144 877	169 739
Unwrought, base bullion	tonnes	...	0	21	822	1 993
Unwrought alloys	tonnes	57 466	54 505	62 406	4 820	6 050
Scrap	tonnes	47 660	56 055	69 404	74 789	57 990
Lithium						
Oxides	tonnes	232	569	144	7	41
Carbonate	tonnes	216	193	123	50	102
Magnesite and magnesite						
Magnesite	tonnes	316	518	470	745	1 163
Magnesite	tonnes	13 647	9 662	14 497	28 042	14 869
Manganese						
Ores and concentrates	tonnes	244	65	97	129	101
Metal	tonnes	(a)* 2 200	(a)* 2 200	(a)* 2 000	(a)* 2 100	...
Mercury	kilograms	6 369	178 571	9 321	5 368	2 991
Mica	tonnes	4 749	3 944	4 137	4 238	3 639
Molybdenum						
Ores and concentrates	tonnes	64	35	305	3	64
Metal	tonnes	241	433	572	403	375
Nepheline syenite	tonnes	902	204	291	337	403
Nickel						
Scrap	tonnes	18 229	12 693	19 361	17 405	33 614
Unwrought	tonnes	26 235	15 834	18 639	28 994	30 322
Unwrought alloys	tonnes	4 378	4 753	4 530	6 025	6 711
Perlite	tonnes	702	414	1 059	1 116	1 228
Crude petroleum	tonnes	43 354 245	43 550 953	41 591 305	34 304 184	33 679 090
Natural gas (b)	tonnes	9 543 217	11 160 939	14 461 473	15 239 637	11 325 170
Platinum metals						
Platinum	kilograms	40 630	43 177	24 464	37 836	55 114
Palladium	kilograms	47 142	53 091	42 864	50 917	55 864
Other Platinum metals	kilograms	22 548	20 044	23 021	17 319	18 945
Waste and scrap	kilograms	4 278 682	4 273 222	527 862	287 198	1 066 729
Potash						
Sulphate	tonnes	93	443	71	108	118
Chloride (a)	tonnes	* 244 300	* 205 600	* 339 000	* 429 000	* 399 000
Other potassic fertilisers	tonnes	562	228	420	5 283	15 732
Rare earths						
Metals	tonnes	237	54	46	272	54
Cerium compounds	tonnes	73	105	182	149	273
Other rare earth compounds	tonnes	622	459	614	347	214
Ferro-cerium and other pyrophoric alloys	tonnes	7	6	37	48	79
Salt	tonnes	873 708	449 303	450 246	489 633	396 155
Sillimanite minerals	tonnes	2 076	1 414	1 378	1 761	1 141

Exports continued

Commodity	Units	2008	2009	2010	2011	2012
Silver						
Ores and concentrates	kilograms	192	1 338	2 035	206	—
Metal	kilograms	6 071 009	943 522	2 579 909	3 937 294	3 197 152
Waste and scrap (c)	kilograms	5 447 491	8 412 093	5 160 290	11 649 846	19 737 958
Sulphur and pyrites						
Sulphur, crude	tonnes	13 182	2 545	41 491	101 964	37 239
Sulphur, refined	tonnes	27 872	38 723	1 198	3 686	14 609
Sulphur, sublimed and precipitated	tonnes	1 144	1 902	1 349	2 151	21 385
Talc	tonnes	3 129	2 402	3 074	3 171	5 026
Tantalum and niobium						
Tantalum	tonnes	55	72	191	97	336
Niobium (d)	tonnes	148	23	45	72	29
Tin						
Concentrates	tonnes	254	61	163	58	241
Unwrought	tonnes	1 264	928	1 856	1 797	2 092
Unwrought alloys	tonnes	532	537	389	545	246
Scrap	tonnes	19 110	22 597	13 115	4 414	3 435
Titanium						
Metal	tonnes	11 155	9 555	12 060	11 926	11 541
Oxides	tonnes	222 503	203 873	208 518	223 190	142 135
Tungsten						
Ores and concentrates	tonnes	21	3	29	35	102
Metal	tonnes	1 625	1 541	1 650	2 135	1 674
Carbide	tonnes	51	80	41	597	463
Vanadium						
Pentoxide	tonnes	589	487	694	6	—
Metal	tonnes	2	18	23	...	...
Zinc						
Ores and concentrates	tonnes	246	11 418	8 405	9 714	5 561
Unwrought	tonnes	3 883	3 600	3 580	2 724	1 823
Unwrought alloys	tonnes	28 408	13 578	14 561	12 737	13 580
Scrap	tonnes	5 699	6 030	14 903	12 545	9 897
Zirconium						
Concentrates	tonnes	716	742	1 405	1 661	818
Metal	tonnes	61	19	90	102	213

Note(s)

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

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

(c) Including scrap of platinum group metals

(d) Including rhenium

Imports

Commodity	Units	2008	2009	2010	2011	2012
Primary aggregates	tonnes	2 631 986	2 054 272	2 239 950	2 062 760	1 792 148
Aluminium and bauxite						
Bauxite	tonnes	57 971	37 461	41 650	41 497	33 925
Alumina	tonnes	705 033	352 250	229 158	110 265	56 724
Alumina hydrate	tonnes	110 503	98 516	87 278	90 065	72 468
Unwrought	tonnes	160 797	304 621	138 975	201 428	144 629
Unwrought alloys	tonnes	93 210	43 601	62 686	62 784	64 561
Scrap	tonnes	145 819	117 651	126 584	109 122	106 654
Antimony						
Metal	tonnes	98	88	45	121	237
Oxide	tonnes	2 454	1 548	2 598	1 785	1 750
Arsenic						
Metallic arsenic	tonnes	52	60	7	5	15
Barytes	tonnes	56 794	61 308	89 474	99 872	88 042
Bentonite and fuller's earth						
Bentonite	tonnes	205 853	140 301	141 849	200 332	183 343
Sepiolite	tonnes	227 453	70 651	...	...	...

United Kingdom

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Bismuth						
Metal	tonnes	1 582	310	366	411	481
Bromine	kilograms	5 903 423	6 534 300	5 787 829	9 485 963	7 817 484
Cadmium						
Metal	tonnes	212	246	470	542	229
Oxide	tonnes	386	181	309	281	169
Cement						
Cement clinkers	tonnes	366 791	206 857	201 308	208 595	206 086
Portland cement	tonnes	1 731 228	1 718 146	1 759 841	1 746 862	1 429 848
Other cement	tonnes	28 324	30 815	92 031	100 453	31 045
Chromium						
Ores and concentrates	tonnes	117 715	33 867	7 084	10 572	9 124
Metal	tonnes	3 099	2 904	3 007	2 346	1 663
Coal						
Anthracite	tonnes	213 318	207 327	187 246	193 474	29 186
Other coal	tonnes	43 038 043	36 553 574	23 227 529	31 627 894	42 069 614
Briquettes	tonnes	14 131	9 021	11 169	21 142	15 004
Cobalt						
Ore	tonnes	72	200	143	124	125
Metal	tonnes	5 395	3 928	5 963	6 093	6 197
Oxides	tonnes	138	168	198	256	164
Copper						
Unwrought, unrefined	tonnes	5 529	3 034	2 039	1 267	147
Unwrought, refined	tonnes	47 716	45 249	40 708	34 627	38 674
Unwrought alloys	tonnes	5 721	4 066	5 688	5 498	5 957
Scrap	tonnes	21 132	18 549	27 495	29 010	27 214
Diamond						
Unsorted	Carats	10 283 610	8 348 854	8 703 907	8 484 526	9 238 531
Gem, rough	Carats	59 534 653	44 064 081	40 559 260	38 472 604	33 227 748
Gem, cut	Carats	1 343 330	868 406	761 455	18 292 931	7 009 031
Industrial	Carats	5 127 610	3 321 670	7 299 364	10 236 376	7 747 613
Dust	Carats	187 268 975	88 148 090	111 136 020	32 411 894	26 886 717
Diatomite	tonnes	23 084	22 014	18 649	20 042	19 752
Feldspar	tonnes	18 899	9 299	17 584	16 750	21 610
Fluorspar	tonnes	8 429	6 436	1 294	45 327	19 739
Gold						
Metal	kilograms	914 000	1 166 948	800 602	1 012 882	1 052 573
Waste and scrap	kilograms	43 143	213 440	65 833	71 449	164 833
Graphite	tonnes	14 309	7 850	6 989	6 869	4 114
Gypsum						
Crude	tonnes	140 783	396 138	216 605	539 327	490 661
Calcined	tonnes	88 766	60 337	54 209	46 526	47 545
Iodine	kilograms	1 106 864	1 075 328	1 253 806	1 426 239	1 573 126
Iron ore	tonnes	(a) 15 283 479	(a) 9 186 151	10 597 085	(a) 9 175 852	(a) 10 062 323
Iron, steel and ferro-alloys						
Pig iron	tonnes	61 657	19 703	41 959	69 095	55 845
Sponge and powder	tonnes	27 003	17 483	97 745	147 870	176 638
Ferro-chrome	tonnes	79 692	34 884	58 398	70 191	65 219
Ferro-silico-chrome	tonnes	128	13	9	362	723
Ferro-silico-magnesium	tonnes	1 614	512	931	1 328	1 360
Ferro-manganese	tonnes	96 461	49 700	46 985	39 159	47 706
Ferro-silico-manganese	tonnes	52 966	37 114	49 280	51 928	36 661
Ferro-molybdenum	tonnes	369	325	322	573	458
Ferro-nickel	tonnes	16 520	2 777	6 284	13 888	17 916
Ferro-niobium	tonnes	1 189	686	859	395	250
Ferro-phosphorus	tonnes	2 473	282	836	1 134	474
Ferro-silicon	tonnes	59 438	31 091	43 703	45 918	39 351
Ferro-titanium and ferro-silico-titanium	tonnes	1 290	396	274	187	902
Ferro-vanadium	tonnes	543	209	340	368	246
Other ferro-alloys	tonnes	2 237	2 296	595	388	1 520
Silicon metal	tonnes	56 807	68 109	99 651	101 005	97 454
Ingots, blooms, billets	tonnes	679 019	212 829	714 541	1 185 242	835 691
Scrap	tonnes	228 294	213 818	270 986	423 744	284 986
Kaolin	tonnes	79 546	77 504	95 865	102 396	88 505

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Lead						
Ores and concentrates	tonnes	116	24	23	47	121
Unwrought, base bullion (b)	tonnes	194 113	130 312	151 653	127 691	168 669
Unwrought, other	tonnes	19 569	15 479	14 359	18 601	19 606
Unwrought alloys	tonnes	19 924	1 798	787	1 287	1 331
Scrap	tonnes	4 621	4 962	8 858	4 792	3 317
Lithium						
Oxides	tonnes	466	914	218	215	119
Carbonate	tonnes	536	622	427	376	344
Magnesite and magnesia						
Magnesite	tonnes	7 016	3 567	8 640	7 903	5 059
Magnesia	tonnes	59 300	43 873	49 076	52 263	70 330
Manganese						
Ores and concentrates (c)	tonnes	4 133	941	1 517	1 656	1 597
Metal	tonnes	8 773	4 123	6 619	5 444	3 721
Mercury	kilograms	2 387	1 121	22 065	425	21 138
Mica						
Unmanufactured	tonnes	377	328	43	243	407
Ground	tonnes	7 061	6 396	7 341	7 926	9 203
Waste	tonnes	2 030	49	902	0	—
Molybdenum						
Ores and concentrates	tonnes	15 130	9 007	12 581	15 844	16 041
Metal	tonnes	2 102	707	1 099	1 415	1 487
Oxides	tonnes	1 433	510	1 638	2 316	1 971
Nepheline syenite	tonnes	44 275	32 462	39 092	35 573	30 744
Nickel						
Mattes, sinters etc	tonnes	63 553	25 929	50 263	58 519	57 108
Ores and concentrates	tonnes	241	150	16	1	—
Unwrought	tonnes	16 888	8 003	14 200	12 707	11 521
Unwrought alloys	tonnes	3 210	3 596	3 310	4 644	4 771
Oxides	tonnes	13	1	6	5	6
Scrap	tonnes	10 291	9 593	8 154	6 741	9 237
Crude petroleum	tonnes	52 103 843	50 656 965	50 447 008	53 647 056	56 471 508
Natural gas (d)	tonnes	33 996 147	38 563 499	49 981 718	49 695 891	46 000 857
Perlite	tonnes	45 064	36 315	58 456	98 437	66 298
Phosphate rock	tonnes	28 971	5 600	9 873	15 885	15 314
Platinum metals						
Platinum	kilograms	29 943	30 339	58 659	46 092	54 073
Palladium	kilograms	32 806	36 652	73 184	42 167	59 803
Other Platinum metals	kilograms	5 409	6 713	9 487	7 768	4 374
Waste and scrap	kilograms	1 416 905	1 100 117	819 769	1 556 736	2 163 943
Potash						
Sulphate	tonnes	15 157	15 766	15 766	13 232	10 795
Chloride	tonnes	165 331	80 842	270 096	153 141	161 388
Other potassic fertilisers	tonnes	11 919	10 422	10 565	2 373	7 899
Rare earths						
Metals	tonnes	133	99	119	79	65
Cerium compounds	tonnes	2 067	612	1 119	1 713	485
Other rare earth compounds	tonnes	251	103	322	629	518
Ferro-cerium and other pyrophoric alloys	tonnes	57	148	150	79	14
Salt	tonnes	237 288	410 434	1 288 253	1 814 865	418 028
Sillimanite minerals						
Sillimanite minerals	tonnes	11 920	7 763	7 419	12 485	10 562
Mullite	tonnes	6 488	5 255	8 276	3 491	4 588
Silver						
Ores and concentrates	kilograms	8 332	1 106	9 737	1 209	6 287
Metal	kilograms	3 943 638	6 649 190	3 278 015	3 686 011	8 525 994
Waste and scrap	kilograms	4 222 712	3 311 165	4 137 096	13 713 610	5 946 307
Sulphur and pyrites						
Pyrites	tonnes	704	104	2 581	1 734	168
Sulphur, crude	tonnes	64	74	274	590	1 125
Sulphur, refined	tonnes	9 574	6 211	10 201	10 391	8 670
Sulphur, sublimed and precipitated	tonnes	1 186	473	767	691	698
Talc	tonnes	53 864	39 520	50 309	53 339	57 751
Tantalum and niobium						
Tantalum	tonnes	161	145	284	176	144
Niobium (e)	tonnes	154	98	104	176	130

United Kingdom

Imports continued

Commodity	Units	2008	2009	2010	2011	2012
Tin						
Concentrates	tonnes	0	6	0	0	—
Unwrought	tonnes	7 181	4 522	4 327	4 186	3 850
Unwrought alloys	tonnes	400	370	365	396	1 113
Scrap	tonnes	448	121	196	121	147
Titanium						
Titanium minerals	tonnes	194 756	112 091	90 622	32 127	117 860
Metal	tonnes	32 305	23 178	20 681	69 844	33 943
Oxides	tonnes	58 747	53 864	59 460	62 311	63 058
Titanium slag	tonnes	158 195	127 224	187 913	...	—
Tungsten						
Ores and concentrates	tonnes	11	35	2	25	3
Metal	tonnes	1 865	1 477	1 676	1 999	1 888
Carbide	tonnes	1 023	614	1 111	3 622	1 245
Vanadium						
Pentoxide	tonnes	344	84	5	17	21
Metal	tonnes	314	112	197	376	261
Zinc						
Ores and concentrates (f)	tonnes	257	119	574	426	178
Unwrought	tonnes	119 911	84 594	97 066	85 516	77 847
Unwrought alloys	tonnes	8 524	1 869	2 973	9 306	8 917
Scrap	tonnes	103	344	447	339	412
Zirconium						
Concentrates	tonnes	13 092	6 386	8 450	14 709	8 928
Metal	tonnes	521	203	411	616	482

Note(s)

(a) Including burnt pyrites

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

(c) Including manganiferous iron ore

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

(e) Including rhenium

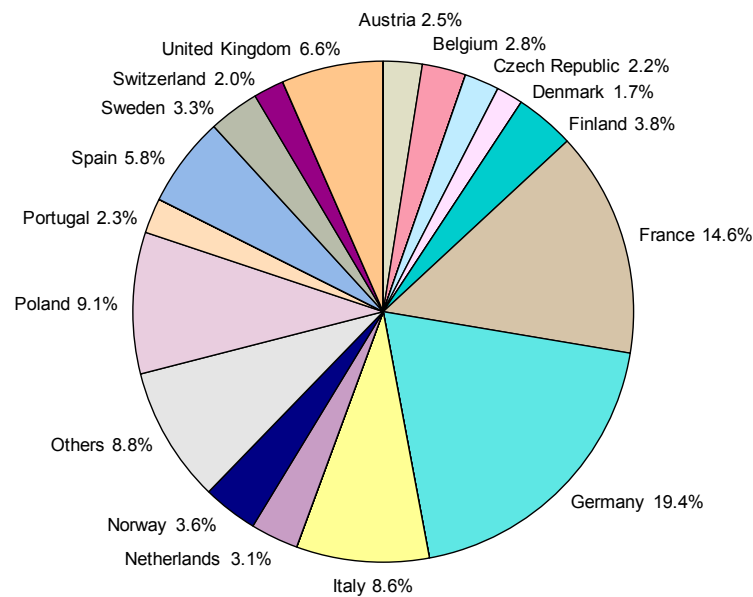
(f) Zinc and mixed zinc-lead concentrates

STATISTICAL INFORMATION BY COMMODITY

Primary aggregates

- Primary aggregates are sand, gravel and crushed rock aggregates that are widely used in the construction industry. The trade data presented here are for crushed rock combined with sand and gravel.
- Aggregates data are very difficult to establish accurately. There are frequent inconsistencies in the way countries report aggregates production and trade. Different definitions for similar materials are commonplace, and many countries do not require production to be reported from quarries that have less than a certain number of employees.
- Aggregates are used primarily by the construction industry to build and maintain the physical infrastructure on which everyone depends: houses, offices, roads, schools, hospitals, railways, shops, flood defences, etc. Aggregates are either used directly, for example for drainage or fill purposes, or are used to manufacture concrete and asphalt.

EU35 Production of aggregates 2012



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

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Sand and gravel (a)	32 440 624	30 238 150	30 182 855	35 507 353	31 285 739
Crushed rock (a)	33 867 686	29 784 794	24 399 380	26 866 150	26 348 996
Belgium					
Sand and gravel	* 11 000 000	* 16 000 000	* 14 000 000	* 15 000 000	* 15 000 000
Crushed rock	* 42 000 000	* 43 000 000	* 44 000 000	* 49 000 000	* 50 000 000
Bulgaria					
Sand and gravel	19 697 937	12 882 651	5 199 000	10 054 205	9 293 819
Crushed rock	21 094 047	15 667 880	16 876 900	17 979 678	18 281 353
Croatia					
Sand and gravel	7 275 077	6 583 880	3 646 572	5 012 106	3 760 275
Cyprus					
Crushed rock	14 174 480	11 467 987	12 981 444	11 816 397	7 308 056
Czech Republic					
Sand and gravel	27 306 000	23 974 000	19 240 000	21 424 000	18 785 000
Crushed rock	44 277 000	41 307 000	37 270 000	36 717 000	32 535 000
Denmark					
Sand and gravel	53 318 000	36 240 000	33 978 000	42 878 000	39 332 000
Crushed rock	320 000	260 000	240 000	337 000	293 000
Estonia					
Sand and gravel	3 635 700	3 911 980	3 469 220	3 568 680	3 941 800
Crushed rock	7 945 900	6 034 500	5 849 600	5 919 500	6 063 700

Production continued

tonnes

Country	2008	2009	2010	2011	2012
Finland					
Sand and gravel	53 000 000	37 000 000	36 000 000	36 000 000	34 000 000
Crushed rock	60 000 000	47 000 000	48 000 000	53 000 000	54 000 000
France					
Sand and gravel	171 610 000	146 290 000	141 290 000	148 680 000	138 280 000
Crushed rock	236 770 000	209 440 000	201 860 000	204 980 000	196 600 000
Germany					
Sand and gravel	260 000 000	245 000 000	239 000 000	252 000 000	235 300 000
Crushed rock	215 000 000	217 000 000	208 000 000	229 000 000	211 000 000
Greece	* 85 000 000	* 65 000 000	* 41 000 000	* 33 000 000	* 25 000 000
Hungary					
Sand and gravel	36 647 400	35 591 131	25 059 000	23 361 598	* 23 000 000
Crushed rock	17 030 760	15 808 088	11 390 100	9 128 819	* 9 000 000
Ireland, Republic of					
Sand and gravel	* 25 000 000	* 15 000 000	10 000 000	7 000 000	7 000 000
Crushed rock	* 60 000 000	* 50 000 000	40 000 000	25 000 000	22 000 000
Italy					
Sand and gravel (a)	174 779 712	164 218 753	150 996 352	164 844 967	123 049 565
Crushed rock (a)	91 373 378	84 717 579	80 336 696	76 793 269	74 169 360
Latvia					
Sand and gravel	8 905 937	6 520 363	6 016 126	7 855 125	8 257 763
Crushed rock	1 413 395	818 390	1 375 197	2 050 976	2 072 775
Lithuania					
Sand and gravel	9 469 411	5 029 476	5 655 401	5 776 850	5 081 166
Crushed rock	6 913 160	2 849 122	3 281 330	4 456 089	3 244 314
Montenegro					
Sand and gravel	234 210	183 235	255 678	133 947	201 896
Crushed rock	462 331	186 221	265 066	167 405	112 630
Netherlands					
Sand and gravel	70 409 000	63 350 000	56 865 000	71 320 000	* 71 000 000
Norway					
Sand and gravel	14 817 000	13 047 000	13 011 000	13 215 000	14 262 000
Crushed rock	52 338 000	51 378 000	54 134 000	63 855 000	67 670 000
Poland					
Sand and gravel (b)	* 149 312 000	* 141 114 000	* 157 236 000	* 176 000 000	* 145 000 000
Crushed rock	49 475 400	58 245 900	62 886 200	88 696 900	64 859 600
Portugal					
Sand and gravel	10 182 146	9 190 603	8 650 274	7 664 172	* 7 000 000
Crushed rock	58 431 483	56 337 535	50 622 585	* 48 473 258	* 45 000 000
Romania					
Sand and gravel	31 377 110	23 199 337	22 085 231	25 319 433	21 068 344
Crushed rock	4 635 010	4 835 584	3 774 309	6 189 078	5 593 429
Slovakia					
Sand and gravel	7 517 655	6 919 826	6 931 873	6 020 641	3 794 873
Crushed rock	16 345 800	15 233 400	14 909 400	9 855 157	8 064 817
Slovenia					
Sand and gravel	4 506 076	3 001 291	2 422 771	1 899 770	1 707 455
Crushed rock	14 982 560	13 609 728	12 072 532	9 626 791	7 557 431
Spain					
Sand and gravel	118 000 000	96 000 000	72 000 000	59 000 000	* 40 000 000
Crushed rock	214 000 000	160 000 000	170 000 000	144 000 000	* 94 000 000
Sweden					
Sand and gravel	18 804 343	14 400 000	* 17 000 000	* 17 000 000	* 17 000 000
Crushed rock	66 757 671	57 500 000	* 57 000 000	* 58 000 000	* 58 000 000
Switzerland					
Sand and gravel	* 37 000 000	* 37 000 000	* 40 000 000	* 40 000 000	40 000 000
Crushed rock	* 5 000 000	* 5 000 000	* 5 000 000	* 5 000 000	* 5 000 000

Aggregates

Production continued

tonnes

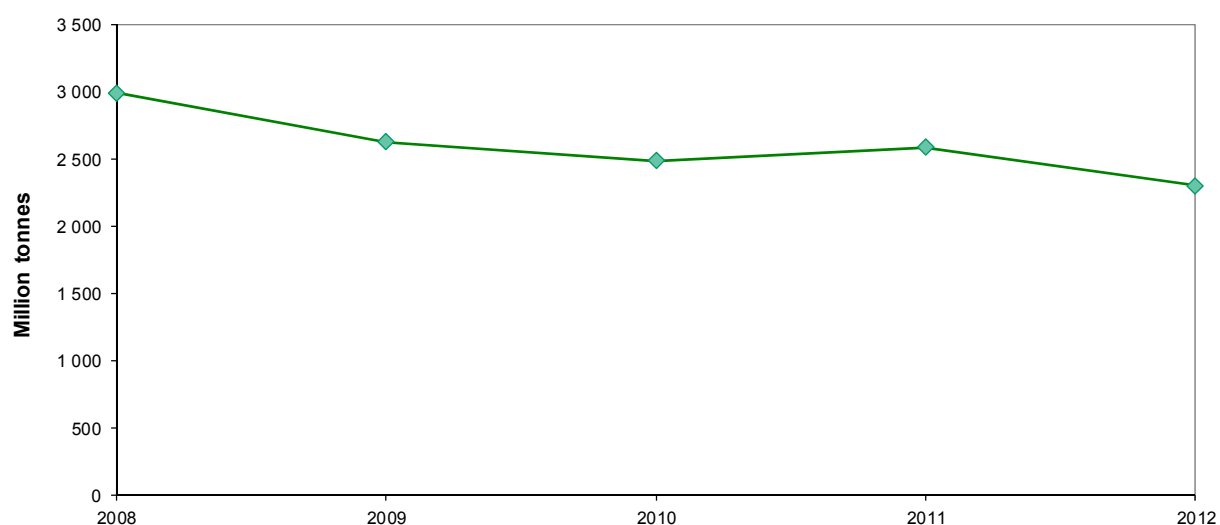
Country	2008	2009	2010	2011	2012
United Kingdom					
Sand and gravel	85 473 000	66 226 000	61 700 000	63 113 000	56 593 000
Crushed rock (c)	127 996 000	104 626 000	94 203 000	102 828 000	94 785 000
EU35 Total	2 989 000 000	2 625 000 000	2 484 000 000	2 582 000 000	2 305 000 000

Note(s)

- (1) So far as possible, these production statistics include construction sand; gravel, pebbles, shingle and flint; crushed stone used for concrete aggregates, roadstone and other construction uses; granules, chippings and powders. Listed under Prodcom codes 0812 1190, 0812 1210, 0812 1230, 0812 1250 and 0812 1290
- (2) Where official sources show more than one series for aggregates the higher series has generally been used in this compilation
- (3) Where marine sands and gravels have been identified, these are included
- (4) Information may be incomplete or absent due to reporting methods, confidentiality or lack of available information. All 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) Includes an estimate for small producers
- (c) Includes small quantities for other purposes in Northern Ireland

EU35 Production of aggregates 2008 - 12



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

tonnes

Country	2008	2009	2010	2011	2012
Austria	3 130 358	2 634 211	2 828 621	2 646 753	2 387 082
Belgium	15 097 819	13 354 957	12 427 043	13 083 592	12 886 680
Bulgaria	268 120	76 129	262 166	325 857	513 135
Croatia	2 950 159	3 087 216	1 858 348	992 712	586 991
Cyprus	124 576	38 469	—	2	78
Czech Republic	699 987	597 101	683 786	1 010 339	645 164
Denmark	846 490	955 036	907 149	961 853	1 224 741
Estonia	701 067	503 048	810 298	745 353	689 854
Finland	850 685	645 609	1 396 025	2 020 822	953 926
France	8 565 175	7 586 323	8 142 237	7 226 413	7 769 899
Germany	29 470 321	27 973 749	25 337 558	29 162 240	25 160 776
Greece	50 453	59 216	60 851	76 495	118 173
Hungary	1 382 695	1 294 700	1 191 521	1 137 425	1 003 456
Iceland	41 024	29 712	44 512	85 854	92 094
Ireland, Republic of	255 295	40 626	13 318	16 005	88 530
Italy	1 522 229	1 308 016	1 507 704	1 071 579	1 073 466
Latvia	54 321	121 260	101 406	59 930	19 683
Lithuania	943 673	163 850	57 255	139 291	118 463
Luxembourg	451 026	132 842	160 773	161 019	165 025
Montenegro	151 614	127 600	112 522	32 451	15 527
Netherlands	9 339 355	7 140 000	9 311 275	15 472 833	15 140 085
Norway	16 683 638	13 843 722	16 877 617	20 858 955	19 761 572
Poland	1 237 976	902 193	1 031 013	1 058 307	962 169
Portugal	44 174	101 421	67 505	120 946	71 399
Romania	60 190	160 241	360 161	255 970	438 328
Serbia	323 034	334 517	127 309	497 637	485 266
Slovakia (a)	* 1 388 000	* 768 000	* 598 000	* 615 008	* 525 000
Slovenia	402 033	451 012	488 256	426 686	406 872
Spain	1 478 362	1 060 445	1 153 923	1 306 103	1 026 358
Sweden	3 049 601	1 867 320	2 248 515	1 624 154	1 602 379
Switzerland	202 846	194 006	193 312	188 183	274 029
Turkey	1 183 150	908 010	955 765	1 237 704	1 299 391
United Kingdom	13 008 608	10 714 861	10 992 431	10 800 338	8 823 773

Note(s)

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

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

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

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

tonnes

Country	2008	2009	2010	2011	2012
Austria	3 447 013	2 924 359	2 284 169	2 184 095	2 521 253
Belgium	25 172 064	22 175 332	22 484 726	23 911 051	22 934 219
Bulgaria	41 256	22 189	14 843	15 075	18 661
Croatia	4 618 579	1 871 236	926 574	1 366 197	1 689 891
Cyprus	28 990	11 564	2 648	1 517	16 792
Czech Republic	333 726	398 613	353 419	357 455	352 553
Denmark	3 346 209	2 932 586	2 777 604	3 531 658	3 934 656
Estonia	988 981	1 006 376	1 395 122	1 302 589	1 215 348
Finland	280 600	330 108	284 066	52 920	96 804
France	11 214 300	10 907 837	9 838 820	11 224 302	10 814 082
Germany	13 369 162	12 866 444	11 936 108	13 786 596	11 636 491
Greece	425 485	177 887	13 538	16 892	4 102
Hungary	806 281	446 187	473 730	369 445	515 141
Iceland	30 405	4 846	6 492	7 524	32 327
Ireland, Republic of	1 368 008	781 470	652 594	695 162	817 052
Italy	4 139 144	3 654 570	3 057 378	2 135 306	966 588
Latvia	2 033 701	565 877	467 414	611 872	895 335
Lithuania	1 301 091	695 973	849 462	1 046 066	991 388
Luxembourg	1 370 991	1 757 604	2 097 069	2 211 572	2 036 554

Aggregates

Imports continued

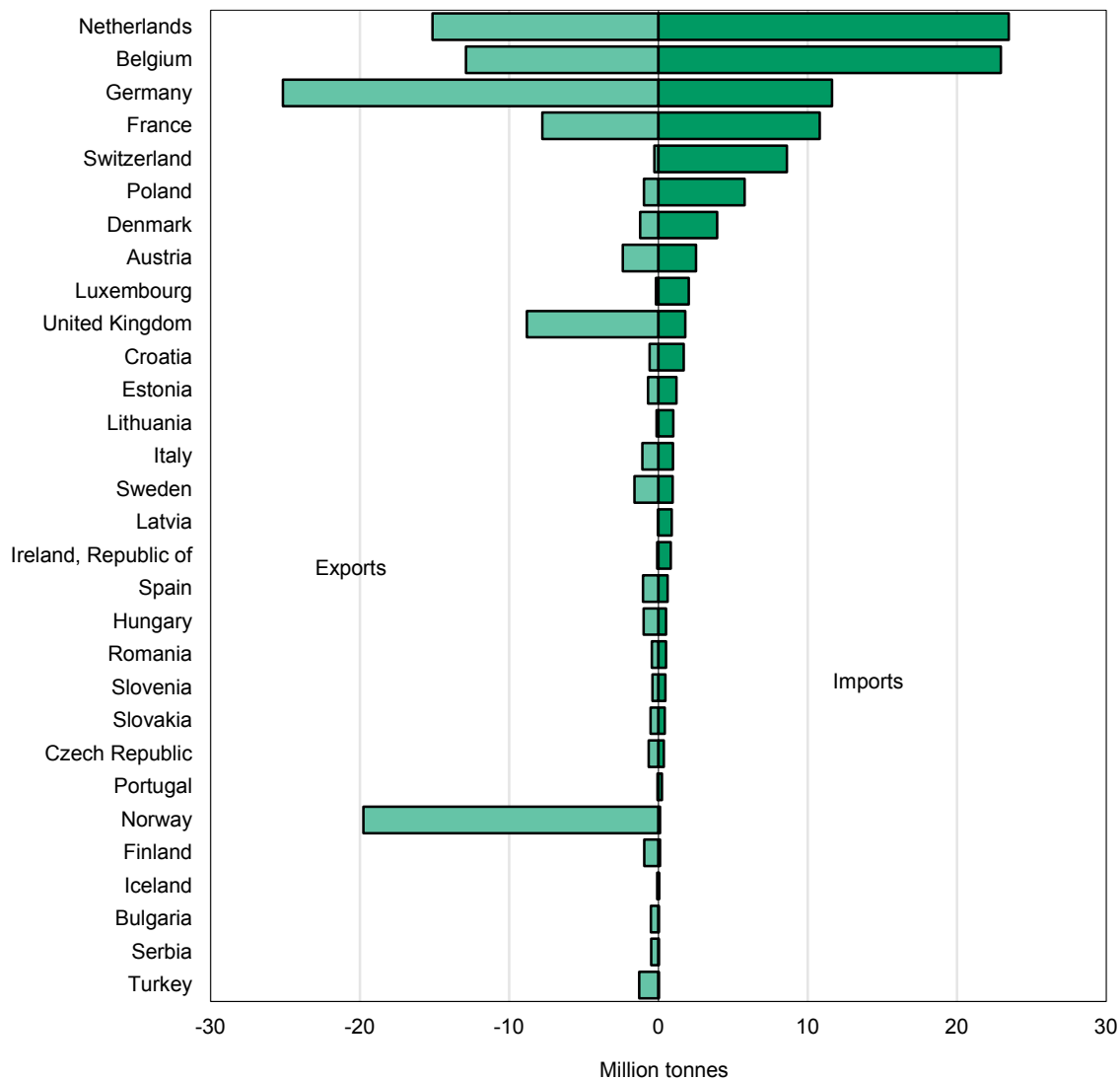
tonnes

Country	2008	2009	2010	2011	2012
Macedonia	1 163	894	1 029	1 180	3 403
Malta	25 817	47 363	37 324	28 813	38 373
Montenegro	74 112	44 639	26 703	12 574	4 709
Netherlands	26 922 364	* 25 007 000	26 065 573	28 239 777	23 457 644
Norway	80 161	66 884	82 706	98 721	107 087
Poland	5 868 908	5 349 230	5 014 564	9 022 494	5 766 695
Portugal	194 088	175 576	224 514	255 625	242 987
Romania	351 123	205 133	248 484	370 249	512 538
Serbia	17 616	12 664	15 910	8 759	9 907
Slovakia	755 496	692 609	666 380	527 259	419 992
Slovenia	1 424 240	1 165 083	771 814	486 627	461 601
Spain	1 035 555	889 156	982 128	677 289	618 871
Sweden	864 988	355 022	533 148	802 173	944 006
Switzerland	7 256 472	7 246 506	8 010 059	8 566 572	8 611 775
Turkey	4 590	3 636	9 372	3 487	7 129
United Kingdom	2 631 986	2 054 272	2 239 950	2 062 760	1 792 148

Note(s)

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

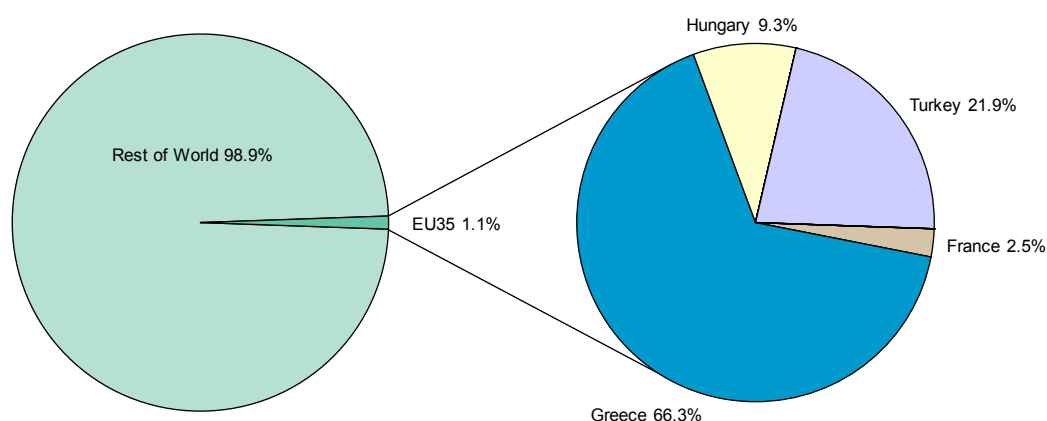
Aggregates - EU35 trade in 2012



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 2012, with 31 per cent of the total world output. The second largest was China (16 per cent), followed by Brazil (14 per cent), Indonesia (12 per cent) and Guinea (seven per cent).

EU35 Production of bauxite 2012



Production of bauxite

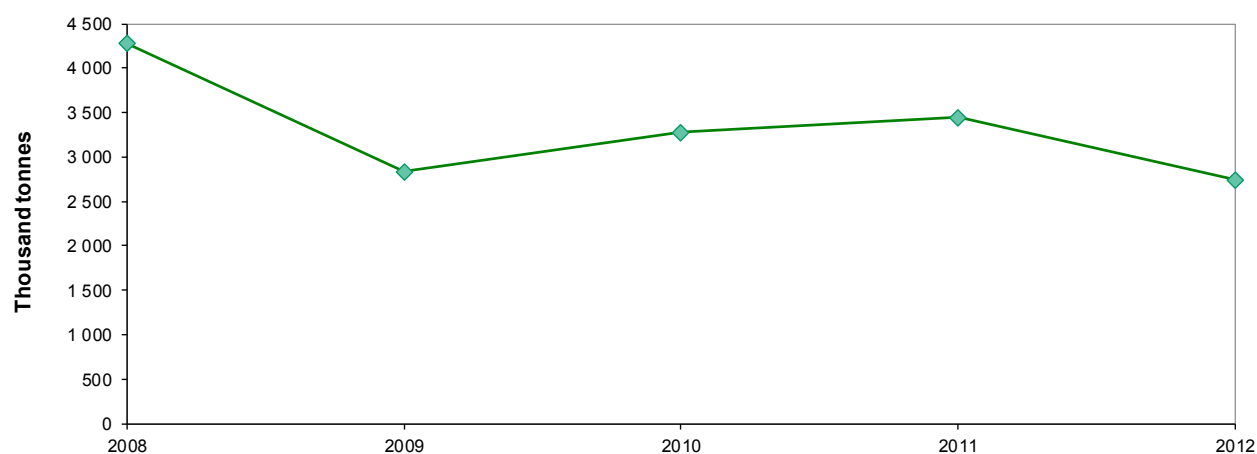
tonnes

Country	2008	2009	2010	2011	2012
France	101 700	129 700	93 100	80 800	69 500
Greece	2 174 000	1 935 000	1 902 000	2 324 000	1 816 000
Hungary	511 337	317 000	365 000	277 800	255 000
Montenegro	671 811	45 779	61 205	158 614	—
Turkey	818 928	406 700	855 000	* 600 000	* 600 000
EU35 Total	4 278 000	2 834 000	3 276 000	3 441 000	2 741 000

Note(s)

(1) This table includes production of refractory bauxite

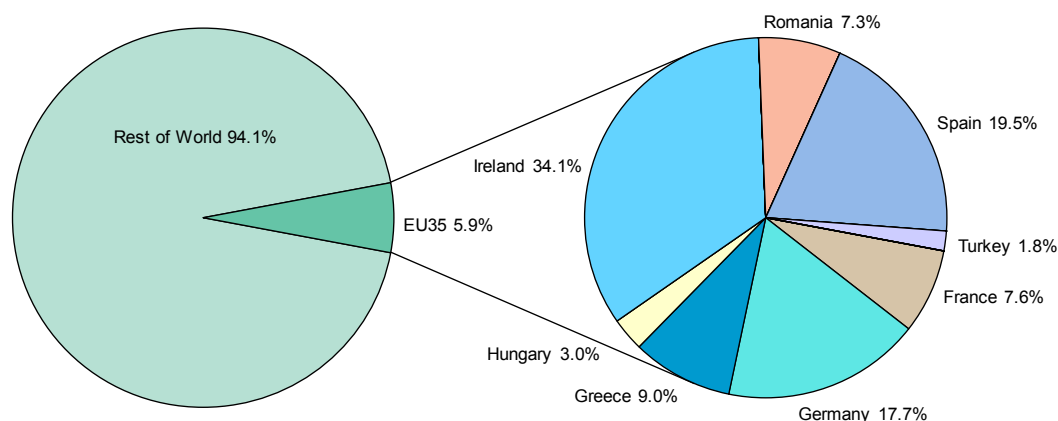
EU35 Production of bauxite 2008 - 12



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 2012, with 39 per cent of the total world output. Australia was the second largest (22 per cent) followed by Brazil (11 per cent), USA and India (with five per cent each).

EU35 Production of alumina 2012



Production of alumina

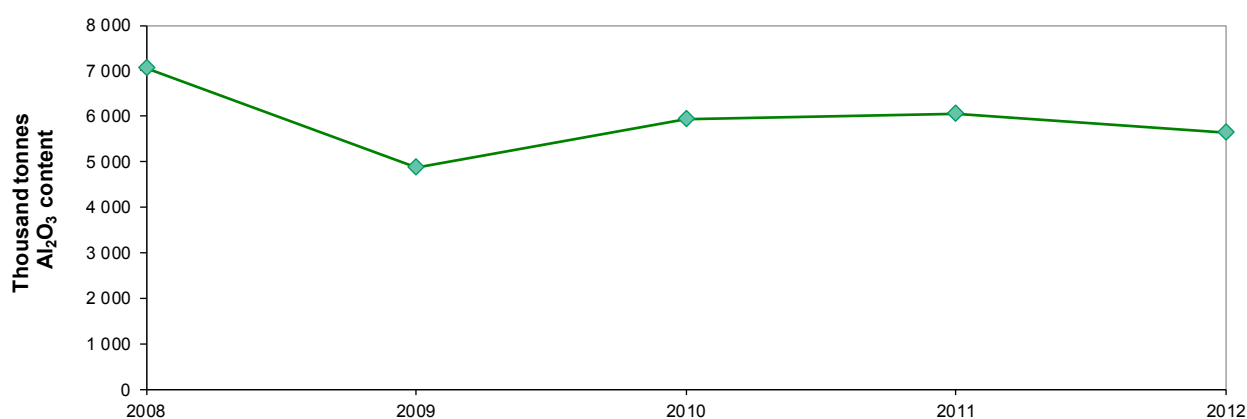
tonnes (Al_2O_3 content)

Country	2008	2009	2010	2011	2012
France	630 000	348 000	481 000	470 000	430 000
Germany	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Greece	524 875	517 400	510 250	526 305	509 600
Hungary	* 299 000	* 185 000	* 214 000	* 250 000	* 170 000
Ireland, Republic of	1 890 000	1 240 000	1 864 000	1 922 000	1 924 000
Italy	1 045 000	92 000	—	—	—
Montenegro	220 426	58 528	—	—	—
Romania	344	44 000	414 000	484 000	414 000
Spain	1 300 000	* 1 300 000	* 1 300 000	* 1 300 000	* 1 100 000
Turkey	* 160 000	* 100 000	* 160 000	* 100 000	* 100 000
EU35 Total	7 070 000	4 885 000	5 943 000	6 052 000	5 648 000

Note(s)

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

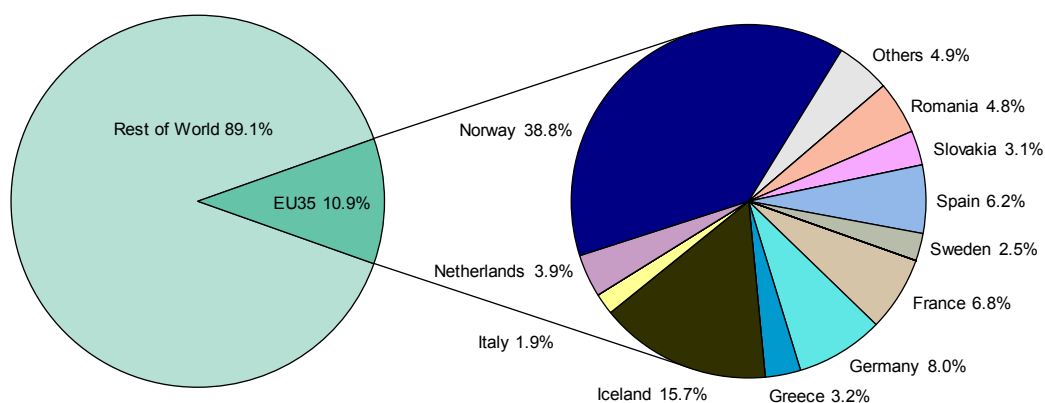
EU35 Production of alumina 2008 - 12



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 2012, with 43 per cent of the total world output. The second largest was Russia (nine per cent), followed by Canada (six per cent), USA and Norway (with four per cent each).

EU35 Production of primary aluminium 2012



Production of primary aluminium

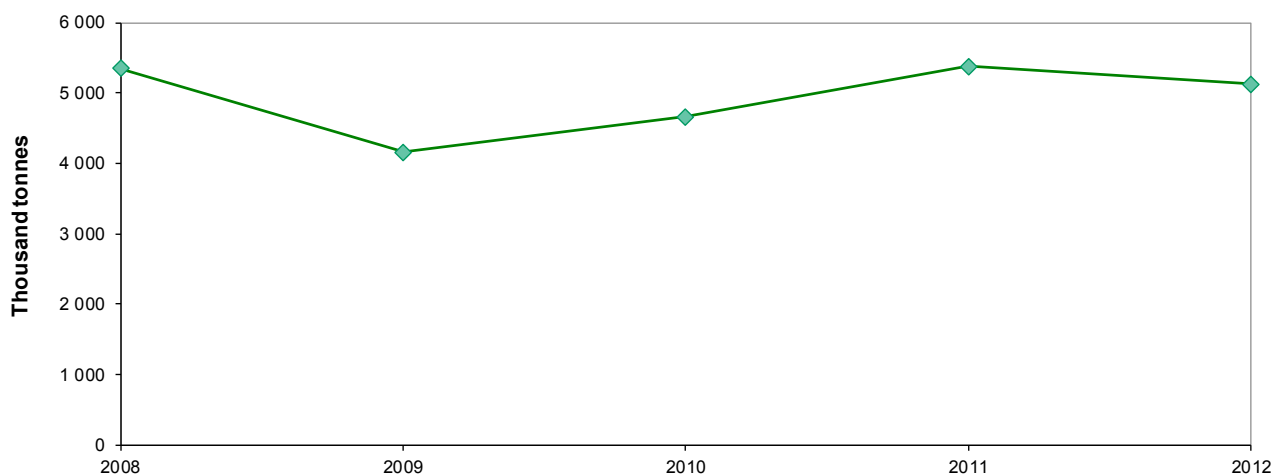
tonnes

Country	2008	2009	2010	2011	2012
France	389 000	345 000	356 000	334 000	349 000
Germany	605 880	291 750	402 480	432 472	410 430
Greece	162 339	134 737	137 000	165 150	165 000
Iceland	761 204	804 605	825 803	780 853	802 827
Italy	186 400	165 800	129 500	141 900	99 600
Montenegro	111 513	63 960	82 043	92 838	74 813
Netherlands	317 000	165 000	217 000	* 200 000	* 200 000
Norway	1 368 000	1 090 000	1 400 000	1 982 000	1 985 000
Poland	31 000	—	—	—	—
Romania	288 156	228 630	241 000	261 000	248 000
Slovakia	162 995	149 604	163 000	162 840	160 662
Slovenia	83 300	35 148	40 177	75 300	74 400
Spain	405 800	334 600	335 000	365 000	* 320 000
Sweden	81 913	69 708	93 000	111 000	129 000
Turkey	61 100	30 000	54 100	56 400	43 700
United Kingdom	326 900	252 000	186 000	213 000	60 000
EU35 Total	5 343 000	4 161 000	4 662 000	5 374 000	5 122 000

Note(s)

(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

EU35 Production of primary aluminium 2008 - 12



Exports of bauxite, alumina and aluminium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Bauxite	1 202	546	1	897	11 944
Unwrought	4 120	2 332	3 236	2 344	2 465
Unwrought alloys	109 757	98 966	151 559	209 748	211 491
Scrap	90 825	118 028	122 057	105 138	128 589
Belgium					
Bauxite	53 444	44 530	48 683	37 533	36 651
Alumina	4 858	5 666	7 516	21 284	5 218
Unwrought	160 684	121 708	257 888	150 542	95 405
Unwrought alloys	32 273	22 665	14 204	30 285	61 019
Scrap	179 137	219 846	274 819	321 484	311 716
Bulgaria					
Unwrought alloys	8 931	2 775	6 798	7 555	5 866
Scrap	18 478	20 577	31 728	26 302	25 579
Croatia					
Unwrought	194	124	2 338	2 674	2 161
Unwrought alloys	194	124	1 017	2 055	2 114
Scrap	17 769	15 779	22 346	23 009	23 867
Cyprus					
Scrap	4 409	5 934	6 896	6 310	7 688
Czech Republic					
Alumina	197	3 069	3 861	3 659	4 065
Unwrought (a)	53 682	59 913	51 307	53 600	61 017
Scrap	59 196	49 251	71 467	89 690	85 939
Denmark					
Bauxite	69	1 568	3 279	6 769	9 432
Alumina	5 300	4 002	4 661	4 958	5 879
Unwrought alloys	32 499	7 505	9 515	7 382	7 440
Scrap	56 727	70 649	73 402	67 000	73 392
Estonia					
Bauxite	42	80	...	29 492	23 317
Unwrought (a)	27 839	8 357	4 132	52	1 220
Scrap	19 895	6 958	65 948	63 880	11 342
Finland					
Unwrought alloys	14 239	8 939	15 346	11 289	14 185
Scrap	37 345	34 910	33 304	38 862	43 221
France					
Bauxite	12 295	9 296	12 116	13 594	11 975
Alumina	319 388	178 570	270 769	281 634	309 291
Alumina hydrate	130 881	100 293	131 035	83 054	139 311
Unwrought	46 364	91 682	51 275	71 970	45 172
Unwrought alloys	139 176	125 580	166 807	130 384	127 551
Scrap	344 436	345 372	405 847	425 541	423 298

Exports continued					tonnes
Country	2008	2009	2010	2011	2012
Germany					
Bauxite	33 636	16 591	26 178	26 306	34 814
Alumina	305 514	382 750	424 236	372 191	369 337
Alumina hydrate	634 635	461 601	551 817	485 074	455 157
Unwrought	75 386	67 356	111 815	83 675	42 580
Unwrought alloys	359 628	288 023	361 396	374 917	361 850
Scrap	702 739	753 218	823 810	947 252	968 539
Greece					
Bauxite	787 160	409 508	436 513	519 999	437 305
Alumina	412 385	412 888	224 607	202 986	320 795
Alumina hydrate	29 552	74 996	99 574	102 136	110 605
Unwrought	26 083	17 533	20 727	19 668	5 925
Unwrought alloys	64 998	57 668	68 924	103 326	102 092
Scrap	13 261	14 681	32 250	27 738	20 367
Hungary					
Alumina	168 347	89 857	112 819	107 937	99 699
Alumina hydrate	102 652	88 515	92 011	71 834	64 000
Unwrought (a)	10 981	26 176	41 719	38 819	36 491
Scrap	22 098	35 060	51 508	66 599	68 156
Iceland					
Unwrought	760 764	805 450	812 981	765 999	787 071
Scrap	12 483	4 467	10 136	6 397	3 799
Ireland, Republic of					
Alumina	1 709 302	895 034	1 542 563	1 794 148	1 616 065
Alumina hydrate	88 039	95 548	124 803	103 631	30 328
Unwrought alloys	3 711	2 455	2 576	3 109	2 684
Scrap	21 041	18 257	22 810	29 261	24 137
Italy					
Bauxite	26 718	4 585	66 218	46 330	93 847
Alumina	571 090	61 223	17 056	16 821	3 424
Alumina hydrate	35 538	1 243	4 346	7 023	6 448
Unwrought	18 249	30 019	49 442	25 882	30 378
Unwrought alloys	96 798	122 294	220 237	286 525	311 381
Scrap	56 214	82 055	107 131	102 696	103 518
Latvia					
Alumina	...	203	140	64 225	115 744
Unwrought alloys	17 012	11 772	14 493	21 793	18 481
Scrap	4 203	4 419	5 461	4 414	4 876
Lithuania					
Unwrought alloys	3 994	2 614	7 754	7 534	6 363
Scrap	5 280	4 796	5 298	8 952	10 306
Luxembourg					
Unwrought alloys	143 237	85 636	157 473	151 330	145 882
Scrap	11 164	3 785	6 034	6 051	6 902
Macedonia					
Scrap	2 043	1 514	2 351	2 432	2 724
Malta					
Scrap	1 441	1 361	1 865	1 788	2 058
Montenegro					
Bauxite	101 182	17 122	85 623	127 268	26 354
Unwrought	(a) 92 372	(a) 82 877	(a) 76 891	108 813	75 180
Scrap	2 692	1 570	2 045	2 357	2 356
Netherlands					
Bauxite	129 186	* 59 000	26 997	12 739	19 133
Alumina	257 169	62 131	8 665	43 695	9 831
Alumina hydrate	85 713	65 279	76 244	89 612	128 448
Unwrought	332 871	218 141	424 733	390 062	371 106
Unwrought alloys	361 012	191 239	320 263	246 826	203 792
Scrap	264 142	200 650	317 038	322 834	372 917
Norway					
Unwrought	105 729	106 593	74 941	58 478	66 997
Unwrought alloys	1 484 854	1 249 830	1 420 662	1 370 411	1 287 135
Scrap	41 476	80 729	77 216	88 312	76 950
Poland					
Bauxite	536	833	448	8 546	—
Unwrought (a)	82 242	66 065	103 803	111 421	118 356
Scrap	123 468	102 757	123 503	130 472	155 032

Aluminium and Bauxite

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Portugal					
Unwrought alloys	127 150	90 869	102 856	59 056	40 526
Scrap	40 020	32 481	51 888	45 775	52 782
Romania					
Bauxite	526	161	1 513	2 318	5 274
Alumina	0	99	25 559	38 406	29 070
Unwrought	61 638	50 496	10 312	14 004	6 074
Unwrought alloys	6 690	5 898	51 556	70 697	83 687
Scrap	16 021	20 775	17 733	12 801	14 200
Serbia					
Unwrought	13 213	7 387	17 602	15 353	10 130
Scrap	11 342	10 972	13 574	22 248	20 752
Slovakia					
Unwrought	44 845	77 013	44 989	40 011	576
Unwrought alloys	129 771	110 484	111 769	118 485	80 141
Scrap	10 109	9 441	10 260	14 044	18 207
Slovenia					
Bauxite	450	2 537	6 665	5 738	1 576
Alumina	258 238	242 215	239 729	161 747	203 376
Unwrought alloys	88 038	61 800	78 619	95 251	94 531
Scrap	26 863	23 382	33 972	39 961	52 712
Spain					
Bauxite	5 623	4 951	3 628	2 038	1 676
Alumina	671 009	612 933	299 703	391 516	426 925
Alumina hydrate	236 855	163 303	126 398	186 543	282 062
Unwrought	39 359	19 816	26 693	19 248	29 433
Unwrought alloys	123 577	230 539	148 884	175 112	181 026
Scrap	109 493	46 307	66 976	51 518	90 881
Sweden					
Alumina	13 919	14 464	19 037	13 870	10 401
Unwrought	6 307	2 143	195	735	873
Unwrought alloys	89 190	145 554	190 394	182 946	188 063
Scrap	106 581	89 940	88 070	95 632	108 353
Switzerland					
Alumina	5 767	1 240	854	341	538
Unwrought (a)	9 938	14 444	20 954	23 397	23 439
Scrap	125 769	116 520	131 819	138 643	141 836
Turkey					
Bauxite	262 708	103 317	331 458	158 232	166 744
Alumina	25 276	1 890	190 094	96	—
Alumina hydrate	93 639	75 837	2 910	21 172	—
Unwrought	50 056	26 337	42 090	4 868	—
Unwrought alloys	10 827	9 368	36 994	38 640	36 106
Scrap	16 218	14 483	14 291	12 020	9 905
United Kingdom					
Bauxite	6 121	3 873	3 140	5 936	2 929
Alumina	9 517	16 810	5 879	5 114	3 590
Alumina hydrate (b)	* 5 300	* 4 400	* 2 100	* 2 600	* 10 700
Unwrought	20 690	17 688	43 665	49 959	9 597
Unwrought alloys	265 018	305 849	364 612	356 170	279 263
Scrap	872 988	422 574	443 466	440 399	445 730

Note(s)

(1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate

(2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars, etc.

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

(a) Including alloys

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

Imports of bauxite, alumina and aluminium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Bauxite	21 727	2 370	8 489	7 842	6 169
Alumina	55 639	27 193	47 681	53 232	40 520
Alumina hydrate	20 205	13 219	12 914	12 821	14 603
Unwrought	154 792	103 145	177 751	197 795	131 764
Unwrought alloys	218 902	175 583	239 493	280 502	314 594
Scrap	170 315	168 055	268 845	282 707	304 272
Belgium					
Bauxite	88 892	40 837	75 600	52 727	41 111
Alumina	13 959	7 265	19 028	20 406	25 501
Alumina hydrate	34 834	29 635	34 978	52 806	36 956
Unwrought	319 471	322 792	517 946	412 600	400 947
Unwrought alloys	236 550	126 490	193 103	218 350	159 147
Scrap	196 947	204 621	228 517	257 366	249 187
Bulgaria					
Alumina	1 370	1 859	2 887	1 875	3 429
Unwrought	42 738	39 759	44 468	43 192	43 405
Unwrought alloys	18 557	16 050	27 444	35 685	42 685
Scrap	4 028	3 014	6 897	4 625	1 582
Croatia					
Bauxite	107 237	72 103	85 634	66 169	67 410
Unwrought	57 828	37 828	50 354	45 493	54 040
Unwrought alloys	20 786	28 251	29 270	40 783	31 807
Cyprus					
Unwrought (a)	13 413	8 761	9 225	7 104	6 458
Czech Republic					
Bauxite	17 698	9 857	33 794	32 556	27 514
Alumina	28 245	5 995	7 407	7 980	7 682
Alumina hydrate	6 916	6 672	9 547	10 052	8 851
Unwrought	68 362	62 972	76 945	84 560	77 128
Unwrought alloys	124 643	108 231	135 648	153 819	141 484
Scrap	58 424	50 379	61 802	86 969	103 385
Denmark					
Bauxite	7 317	8 108	8 364	9 112	7 515
Alumina	27 582	21 968	22 484	21 012	25 210
Unwrought (a)	85 420	61 259	79 479	86 057	77 796
Scrap	70 726	5 321	5 175	5 891	5 267
Estonia					
Unwrought (a)	26 545	5 956	3 176	2 231	2 811
Scrap	485	535	4 495	2 488	488
Finland					
Bauxite	10 461	1 584	9 294	3 036	1 328
Alumina	2 350	1 733	2 401	2 422	2 479
Alumina hydrate	22 243	20 614	29 607	25 676	22 996
Unwrought	1 332	1 204	2 008	2 070	1 596
Unwrought alloys	41 635	29 303	37 539	37 589	32 897
Scrap	21 978	10 998	15 466	15 803	14 080
France					
Bauxite	1 788 358	1 024 569	984 804	1 577 328	1 443 488
Alumina	722 371	849 798	734 935	619 175	734 773
Alumina hydrate	51 289	46 113	47 336	47 510	43 650
Unwrought	113 771	87 130	103 937	152 348	134 309
Unwrought alloys	396 382	311 287	364 962	387 038	277 335
Scrap	197 876	216 872	260 871	292 597	267 325
Germany					
Bauxite	2 995 241	2 069 109	2 005 053	2 436 413	2 777 032
Alumina	1 017 746	518 456	661 379	654 946	476 257
Alumina hydrate	241 736	168 216	260 488	176 692	196 301
Unwrought	693 075	495 511	799 780	768 797	732 599
Unwrought alloys	1 370 179	1 157 271	1 591 991	1 810 035	1 750 733
Scrap	543 839	362 582	479 413	535 304	575 925

Aluminium and Bauxite

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Greece					
Bauxite	226 374	351 677	314 423	288 647	90 804
Alumina	38 828	963	1 546	1 346	1 822
Unwrought	129 407	110 311	153 771	126 051	119 587
Unwrought alloys	63 670	32 252	66 134	59 931	51 875
Scrap	28 960	17 339	43 866	95 166	54 011
Hungary					
Bauxite	297 832	178 031	244 095	254 039	142 246
Alumina	8 997	9 246	22 660	36 305	42 371
Alumina hydrate	508	3 352	6 856	9 123	7 382
Unwrought	122 319	100 897	146 221	135 392	129 030
Unwrought alloys	107 123	79 437	165 833	190 175	181 695
Scrap	56 347	30 212	43 720	59 661	47 904
Iceland					
Alumina	1 620 531	1 557 309	1 612 188	1 539 080	1 590 521
Unwrought	439	(a) 1 461	6 127	5 560	(a) 1 356
Ireland, Republic of					
Bauxite	3 009 615	2 786 723	4 111 457	4 215 019	4 169 784
Alumina	9 579	4 711	4 903	4 378	9 679
Italy					
Bauxite	2 417 499	36 975	62 666	45 146	55 504
Alumina	144 473	88 864	252 028	406 774	292 537
Alumina hydrate	143 217	142 005	198 253	205 274	180 778
Unwrought	445 882	284 779	432 393	482 850	355 557
Unwrought alloys	436 207	310 560	488 002	563 882	489 373
Scrap	377 441	268 836	372 686	461 302	444 544
Latvia					
Scrap	7 677	5 974	7 828	10 381	10 956
Lithuania					
Bauxite	...	6 923	4 348	...	—
Alumina	10 282	1 815	16 411	26 876	23 690
Scrap	1 887	888	2 460	6 014	3 238
Luxembourg					
Unwrought	52 669	33 315	62 504	51 627	44 826
Unwrought alloys	9 320	4 480	7 362	5 586	8 278
Scrap	123 407	48 091	128 632	121 295	161 015
Macedonia					
Unwrought (a)	3 446	2 164	2 839	2 642	2 785
Scrap	485	1 341	1 554	1 842	1 073
Montenegro					
Alumina	7	55 777	157 753	185 103	139 940
Netherlands					
Bauxite	182 711	68 038	113 499	113 653	108 492
Alumina	689 724	153 891	692 413	955 665	626 715
Alumina hydrate	178 940	52 798	167 596	246 013	243 186
Unwrought	248 386	134 950	384 724	424 915	487 639
Unwrought alloys	479 786	284 410	462 371	537 289	464 926
Scrap	210 203	88 053	184 066	241 081	270 014
Norway					
Bauxite	10 232	15 444	8 645	459	746
Alumina	2 753 105	2 069 424	2 144 519	2 185 976	2 191 352
Alumina hydrate	50 401	45 252	35 379	53 224	50 386
Unwrought	381 638	240 409	512 340	450 432	298 464
Unwrought alloys	58 995	95 120	68 086	27 867	41 031
Scrap	37 386	26 598	38 039	42 078	31 750
Poland					
Bauxite	59 907	49 033	48 664	45 672	51 430
Alumina	126 143	27 626	29 920	34 691	35 709
Alumina hydrate	25 334	23 083	31 406	26 536	25 912
Unwrought	71 563	67 561	125 567	125 147	112 325
Unwrought alloys	195 072	144 983	192 393	232 859	245 491
Scrap	67 176	67 408	84 622	98 484	108 168

Imports continued					tonnes
Country	2008	2009	2010	2011	2012
Portugal					
Alumina	9 750	13 742	14 862	8 762	8 863
Unwrought	17 732	15 200	20 152	18 744	17 371
Unwrought alloys	214 614	149 759	170 057	113 150	96 190
Scrap	2 409	15 819	10 183	5 305	7 409
Romania					
Bauxite	45 527	104 404	1 277 587	1 271 274	1 297 303
Alumina	487 304	353 846	1 928	15 037	2 554
Alumina hydrate	17 822	7 996	10 412	5 768	2 841
Unwrought	254	1 023	2 163	3 024	2 751
Unwrought alloys	16 162	16 360	33 711	24 287	26 311
Scrap	598	3 838	83 381	62 768	66 878
Serbia					
Bauxite	9 776	4 773	10 972	7 800	5 979
Alumina	3 075	2 668	3 682	2 673	3 092
Unwrought	54 765	36 626	54 512	51 717	51 578
Unwrought alloys	18 753	12 913	13 600	15 834	14 446
Scrap	5 399	4 411	8 404	6 870	7 209
Slovakia					
Bauxite	5 778	5 443	4 233	6 136	6 087
Alumina	311 891	288 753	270 786	232 187	183 051
Unwrought (a)	41 681	27 853	42 273	44 357	39 235
Scrap	4 638	1 760	2 098	3 181	3 667
Slovenia					
Bauxite	40 006	13 966	41 846	42 555	22 700
Alumina	438 579	302 520	328 453	322 872	381 845
Alumina hydrate	27 121	20 629	27 252	26 173	15 753
Unwrought	67 405	62 162	87 848	65 523	66 209
Unwrought alloys	50 389	34 530	65 950	71 318	66 410
Scrap	51 319	37 677	51 159	52 860	60 468
Spain					
Bauxite	3 618 306	3 509 294	3 325 099	3 080 295	3 693 740
Alumina	50 417	22 239	31 527	61 184	28 910
Alumina hydrate	41 614	30 522	29 317	22 917	16 162
Unwrought	82 512	95 461	119 589	110 612	107 320
Unwrought alloys	281 270	162 026	229 036	219 925	207 511
Scrap	110 745	63 517	111 942	125 190	155 371
Sweden					
Bauxite	18 761	10 755	6 660	10 460	12 271
Alumina	161 638	109 806	211 393	266 978	258 634
Alumina hydrate	95 834	81 026	95 073	77 121	64 907
Unwrought	47 534	39 248	35 506	22 371	26 948
Unwrought alloys	144 343	124 277	188 198	175 194	125 377
Scrap	40 125	30 093	48 508	47 458	49 270
Switzerland					
Bauxite	12 439	8 360	6 718	11 898	10 924
Alumina	11 036	9 074	10 662	9 957	8 625
Alumina hydrate	17 235	15 269	20 697	19 131	17 473
Unwrought	127 018	108 096	148 099	166 853	159 296
Unwrought alloys	62 962	50 341	84 113	70 200	59 087
Scrap	31 728	23 195	33 341	36 829	43 797
Turkey					
Bauxite	39 256	17 350	35 652	36 358	28 947
Alumina	18 232	10 394	15 772	15 434	14 740
Alumina hydrate	21 275	15 269	27 721	35 739	41 275
Unwrought	327 525	358 748	460 915	553 191	576 670
Unwrought alloys	270 871	201 124	281 588	332 228	356 862
Scrap	16 868	14 215	24 952	25 107	20 811

Aluminium and Bauxite

Imports continued

tonnes

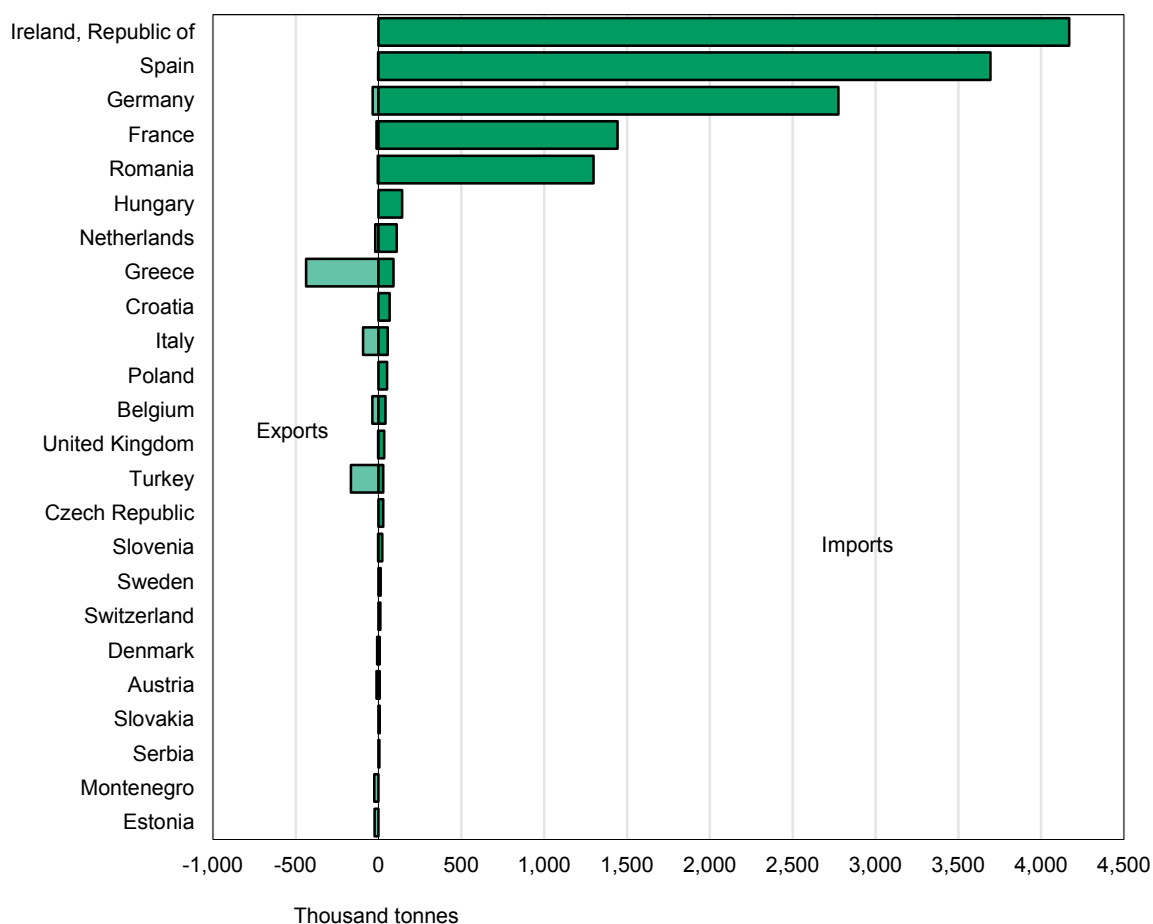
Country	2008	2009	2010	2011	2012
United Kingdom					
Bauxite	57 971	37 461	41 650	41 497	33 925
Alumina	705 033	352 250	229 158	110 265	56 724
Alumina hydrate	110 503	98 516	87 278	90 065	72 468
Unwrought	160 797	304 621	138 975	201 428	144 629
Unwrought alloys	93 210	43 601	62 686	62 784	64 561
Scrap	145 819	117 651	126 584	109 122	106 654

Note(s)

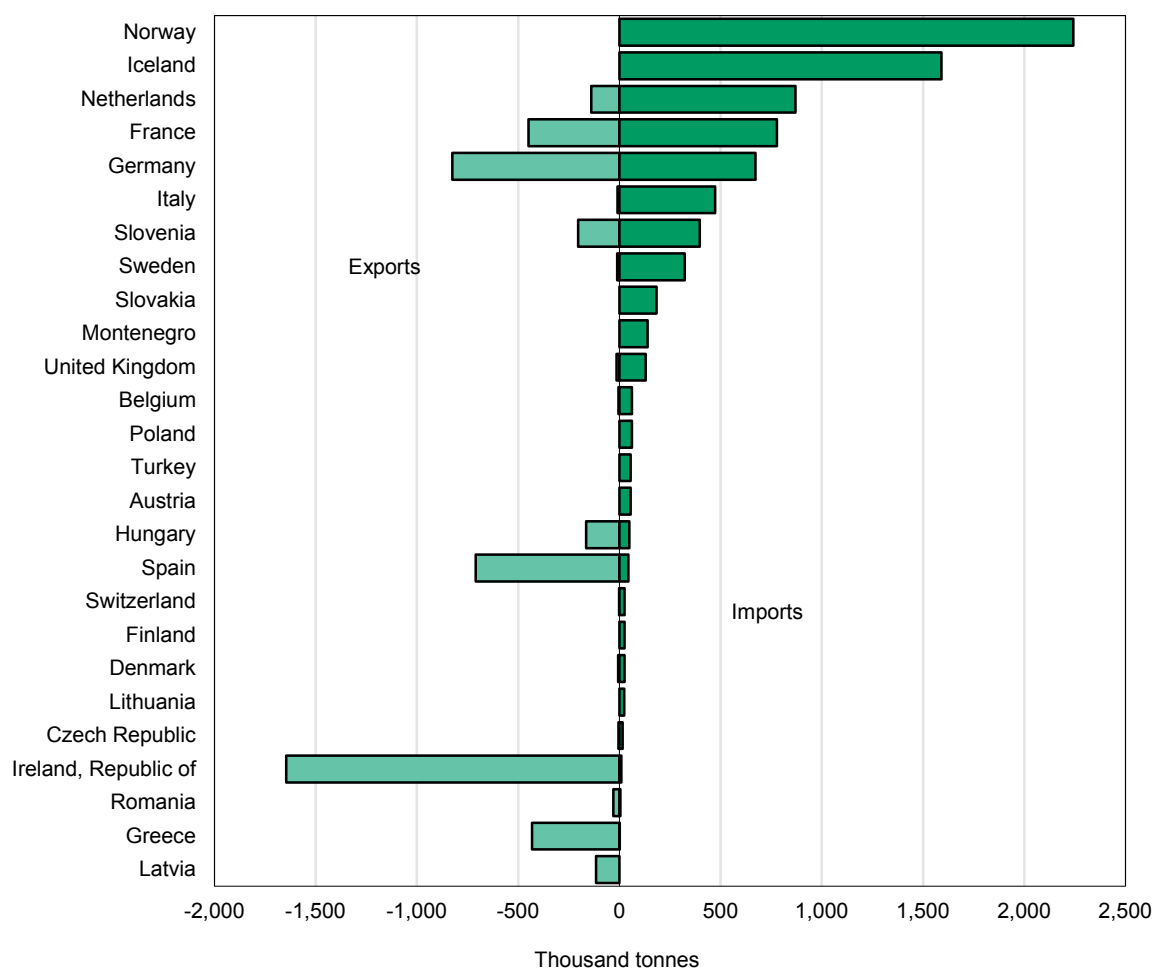
- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
- (2) In this table the term 'unwrought' aluminium corresponds to item 7601 of the Harmonised System and comprises ingots, blocks, unwrought bars, etc.
- (3) Metal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

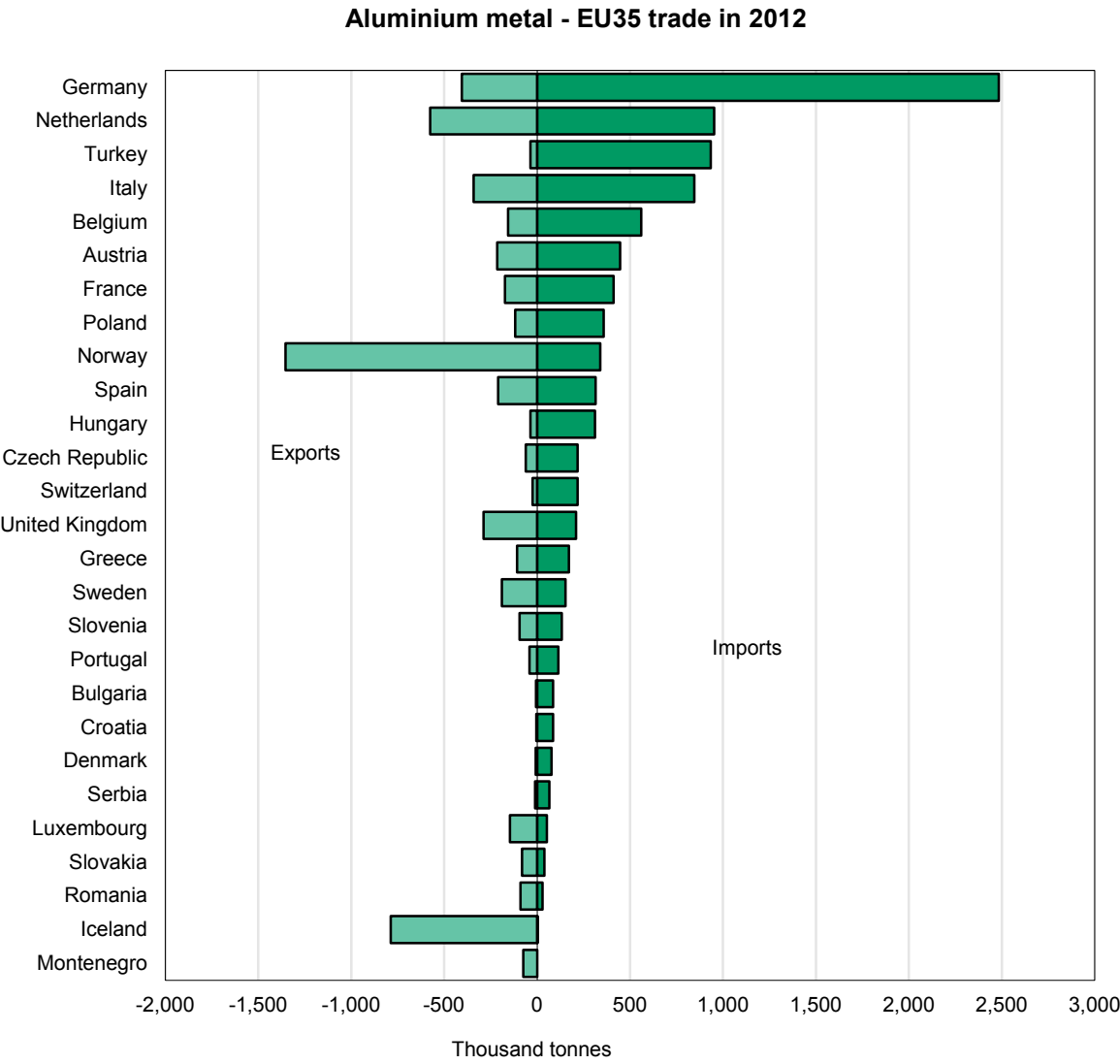
(a) Including alloys

Bauxite - EU35 trade in 2012



Alumina and alumina hydrate - EU35 trade in 2012





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 2012, with 82 per cent of world production. The second largest was Tajikistan, (with four per cent), followed by Russia (also with four per cent), Bolivia (three per cent) and South Africa (two per cent). Antimony is also produced as a by-product of lead refining in many countries.

Mine production of antimony

tonnes (metal content)

Country	2008	2009	2010	2011	2012
Turkey	* 1 300	* 1 300	* 1 300	* 1 300	* 1 300

Note(s)

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

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

Exports of antimony

tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Ores and concentrates	228	530	433	274	1 187
Metal	494	533	776	732	259
Oxide	9 636	8 811	10 599	10 417	7 818
Czech Republic					
Oxide	133	89	71	107	96
Estonia					
Metal	...	...	67	113	...
France					
Metal	44	34	145	24	60
Oxide	6 261	6 788	6 853	6 124	5 482
Germany					
Metal	33	101	132	239	103
Oxide	932	448	961	1 132	688
Greece					
Metal	81	—	...	44	43
Italy					
Ores and concentrates	386	566	960	898	1 311
Metal	12	2	19	80	2
Oxide	569	391	226	261	215
Netherlands					
Metal	185	171	219	385	475
Oxide	346	285	433	264	206
Poland					
Metal	25	65	27	47	40
Portugal					
Metal	60	119	138	70	277
Spain					
Metal	143	62	19	50	247
Oxide	1 023	894	1 716	1 784	1 204
Sweden					
Metal	15	489	4	—	4
Turkey					
Ores and concentrates	1 000	1 408	2 765	2 977	2 450
Metal	0	8	21	6	113
United Kingdom					
Metal	35	75	77	57	237
Oxide	558	407	490	290	422

Imports of antimony

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metal	63	64	37	214	267
Oxide	245	192	249	204	156
Belgium					
Metal	8 837	7 511	10 280	9 451	7 195
Oxide	801	624	904	831	1 822
Czech Republic					
Metal	131	55	75	64	31
Oxide	521	209	379	356	411
Finland					
Oxide	160	101	116	80	104
France					
Ores and concentrates	37	26	101	74	0
Metal	9 078	7 682	9 068	7 413	6 502
Oxide	1 923	1 277	1 577	2 854	1 677
Germany					
Metal	700	552	494	456	376
Oxide	8 672	5 072	7 986	6 949	6 013
Greece					
Metal	63	85	74	84	47
Hungary					
Oxide	144	173	156	148	173
Ireland, Republic of					
Metal	2	2	64	—	—
Italy					
Ores and concentrates	1 171	935	1 378	1 169	1 474
Metal	300	198	233	298	132
Oxide	6 168	4 602	5 460	4 227	3 538
Netherlands					
Metal	234	150	314	208	586
Oxide	51 439	2 257	57 454	26 729	18 315
Norway					
Oxide	371	200	264	193	211
Poland					
Metal	52	71	47	68	62
Oxide	1 086	1 034	1 044	1 026	949
Portugal					
Oxide	161	146	240	184	239
Romania					
Metal	30	36	61	43	9
Oxide	153	87	88	120	163
Slovenia					
Metal	71	50	36	150	25
Spain					
Ores and concentrates	154	55	103	29	10
Metal	1 987	1 478	2 642	2 450	1 553
Oxide	899	493	516	494	720
Sweden					
Metal	166	58	17	10	13
Oxide	293	203	219	227	194
Switzerland					
Oxide	1 328	793	1 108	1 131	583
Turkey					
Ores and concentrates	...	0	82	121	0
Metal	346	369	219	245	256
Oxide	522	588	885	739	705
United Kingdom					
Metal	98	88	45	121	237
Oxide	2 454	1 548	2 598	1 785	1 750

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 2012 and is estimated to produce more than half of world output. Other significant producers are Chile, Russia and Belgium.

Production of white arsenic

tonnes

Country	2008	2009	2010	2011	2012
Belgium	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	* 15	* 15	* 15	* 15	* 15

Note(s)

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

Exports of metallic arsenic

tonnes

Country	2008	2009	2010	2011	2012
Belgium	77	42	114	120	191
France	5	9	5	8	10
Germany	41	31	57	66	128
Netherlands	67	* 30	11	62	55

Note(s)

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

Imports of metallic arsenic

tonnes

Country	2008	2009	2010	2011	2012
Belgium	65	17	114	634	284
Bulgaria	12	11	3	10	10
Czech Republic	25	0	0	0	0
France	8	4	17	21	30
Germany	...	...	69	9	43
Greece	9	11	33	9	3
Ireland, Republic of	95	...	—	...	...
Italy	43	45	19	74	33
Netherlands	8	* 45	2	19	0
Poland	42	20	42	45	44
Slovenia	—	3	* —	11	11
Spain	192	48	96	93	143
Turkey	71	74	55	10	49
United Kingdom	52	60	7	5	15

Note(s)

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

Asbestos

- Asbestos is a commercial term for six fibrous minerals of which chrysotile (white asbestos), the fibrous form of serpentine, is the only form of asbestos now worked. Asbestos was once highly sought after because of its unique combination of properties:
 - non-combustibility
 - resistance to heat, friction, corrosion and acid/alkali attack
 - good thermal and sound insulation qualities
 - good dielectric properties
- Airborne asbestos fibres are a serious hazard to health and virtually all industrial use of asbestos has now ceased in Europe. The largest world producer is Russia with an estimated 50 per cent of the total world output, followed by China with 21 per cent. Other significant producers are Brazil and Kazakhstan.

Production of asbestos

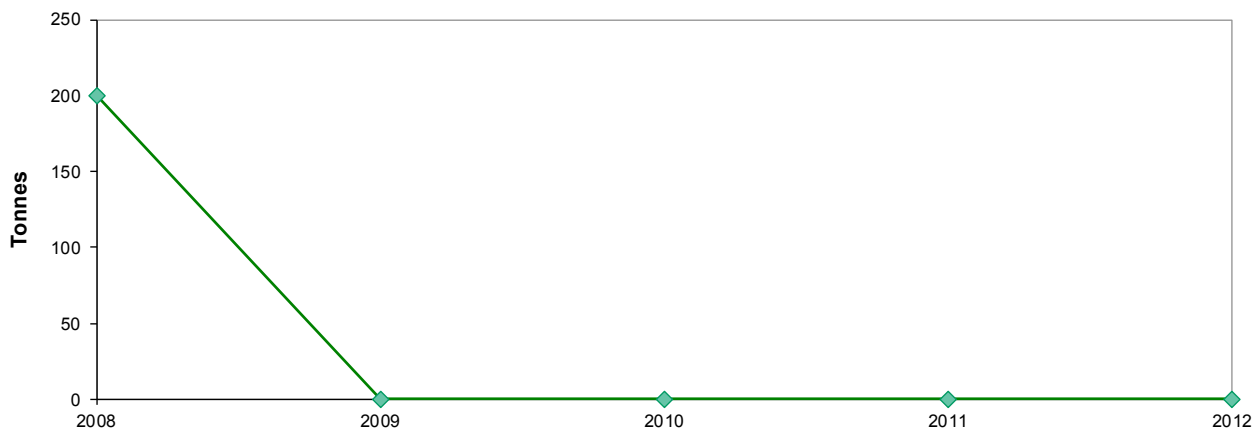
tonnes

Country	2008	2009	2010	2011	2012
Slovakia	200	—	—	—	—

Note(s)

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

Production of Asbestos 2008 - 12



Exports of unmanufactured asbestos

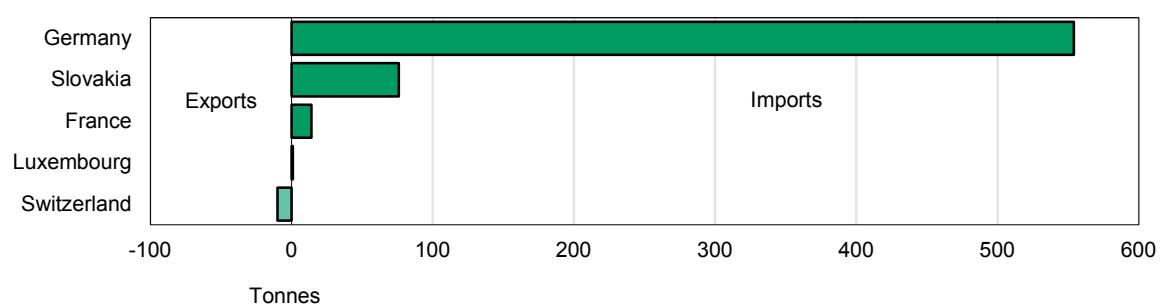
tonnes

Country	2008	2009	2010	2011	2012
Serbia	15	62	1	306	...
Switzerland	120	30	42	17	10
Turkey	685	—	3	1	—

Imports of unmanufactured asbestos

tonnes

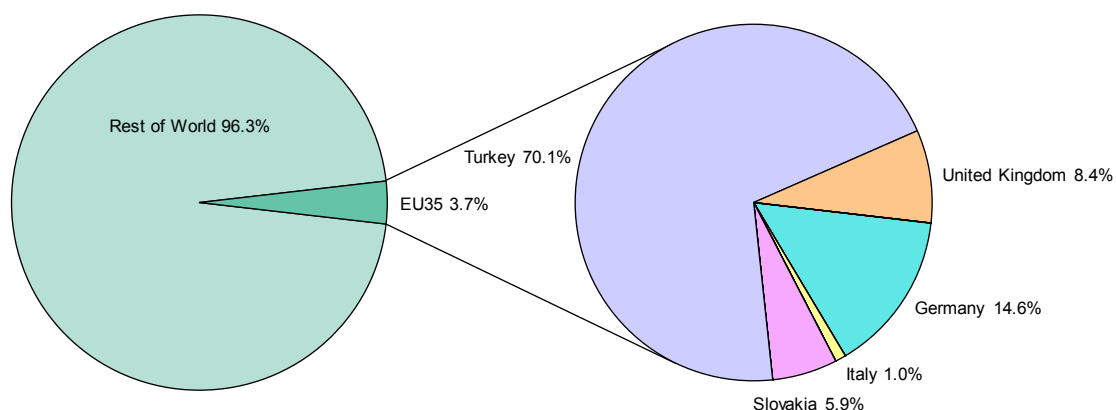
Country	2008	2009	2010	2011	2012
Belgium	6	166	0	0	...
France	120	34	42	19	14
Germany	54	36	72	88	554
Luxembourg	...	—	—	37	1
Montenegro	48	0	22	...	...
Poland	...	35	—	...	...
Slovakia	...	...	0	64	76
Turkey	585	—	—	—	—

Asbestos - EU35 trade in 2012

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 2012, with 45 per cent of the total world output. The second largest was India (18 per cent), followed by Morocco (ten per cent), USA (seven per cent) and Kazakhstan (six per cent).

EU35 Production of barytes 2012



Production of barytes

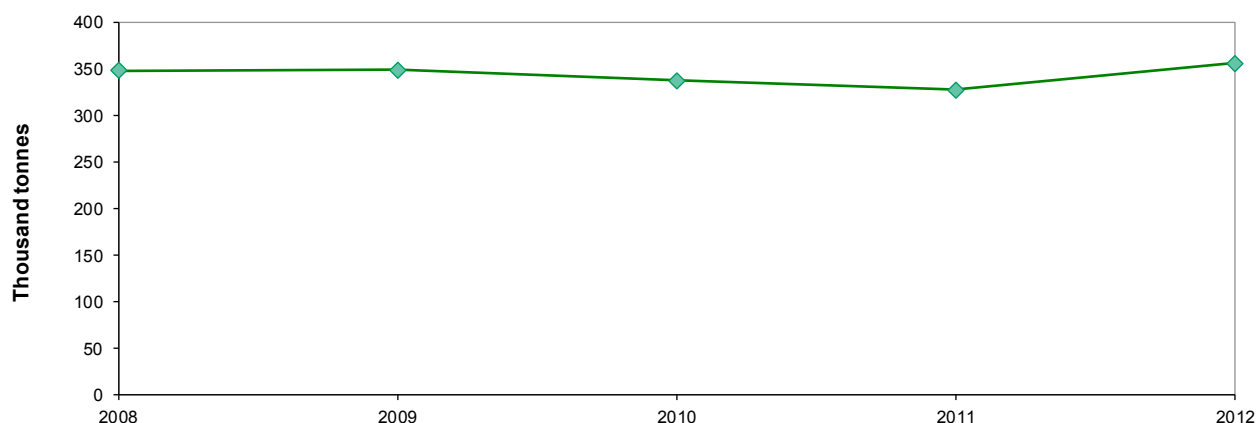
tonnes

Country	2008	2009	2010	2011	2012
Bulgaria	40 100	14 300	500	200	—
Germany	78 941	45 606	55 887	55 342	52 030
Italy	* 5 000	* 3 500	* 3 500	* 3 500	* 3 500
Poland	308	—	—	—	—
Portugal	171	1 078	15	—	—
Slovakia	20 000	30 000	17 000	13 000	21 000
Spain	11 100	5 212	2 050	—	—
Turkey	150 000	213 187	225 000	225 000	250 000
United Kingdom	43 000	36 000	34 099	31 000	30 000
EU35 Total	349 000	349 000	338 000	328 000	357 000

Note(s)

(1) This table may include small quantities of witherite

EU35 Production of barytes 2008 - 12



Exports of barytes

tonnes

Country	2008	2009	2010	2011	2012
Austria	2 440	1 276	345	618	766
Belgium	1 381	2 638	3 216	213	1 713
Bulgaria	46 907	14 326	505	231	—
France (a)	* 10 000	* 11 500	* 10 500	* 10 600	* 11 700
Germany	38 111	45 360	(a)* 33 000	(a)* 34 000	(a)* 29 000
Italy	1 238	2 890	1 906	2 623	4 898
Netherlands	58 740	121 567	79 880	71 719	92 823
Norway	5 608	4 069	12 071	8 008	9 954
Romania	...	1 812	258	2 009	1 326
Slovakia	685	6 309	641	230	197
Spain	33 676	29 776	32 427	34 285	34 402
Turkey	123 485	121 744	175 497	144 238	157 967
United Kingdom (b)	9 976	13 095	17 851	15 648	19 072

Note(s)

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

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

(b) Mainly barites with some witherite

Imports of barytes

tonnes

Country	2008	2009	2010	2011	2012
Austria	6 234	2 733	3 115	4 711	5 157
Belgium	5 959	4 490	5 637	4 294	12 095
Bulgaria	36	57	155	112	848
Croatia	1 525	889	710	125	2 225
Czech Republic	7 388	4 641	7 004	7 431	7 008
Denmark	22 324	27 656	14 178	17 322	8 615
Finland	4 735	2 573	4 406	4 383	4 101
France	34 166	26 227	41 513	29 516	40 294
Germany	278 335	129 220	263 839	291 716	237 254
Greece	1 348	2 133	1 318	2 277	1 222
Hungary	492	4 536	1 441	2 852	516
Italy	102 684	51 615	67 303	88 574	69 098
Luxembourg	27 726	16 377	17 182	17 049	12 350
Netherlands	122 039	43 928	161 343	148 240	168 963
Norway	121 259	146 535	149 510	139 620	124 210
Poland	14 334	8 349	11 758	15 723	21 567

Barytes

Imports continued

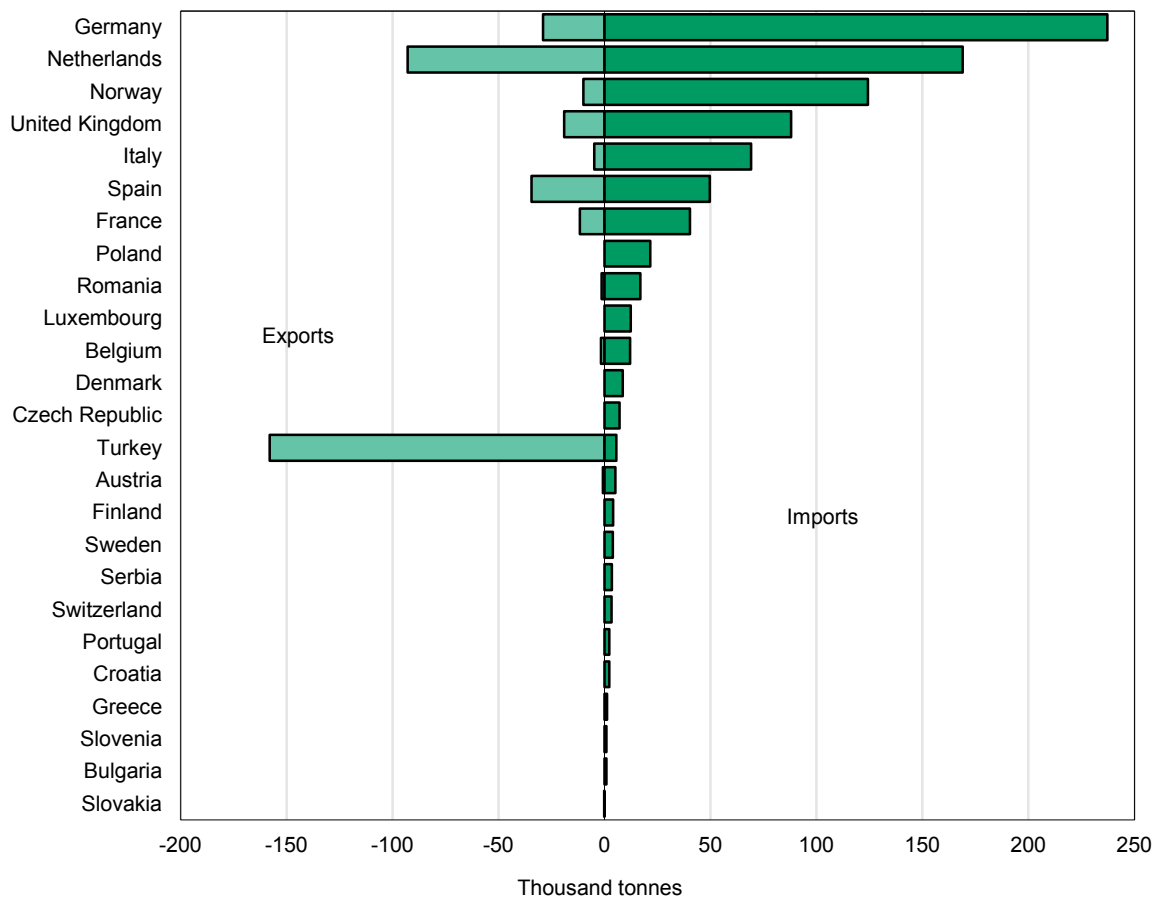
tonnes

Country	2008	2009	2010	2011	2012
Portugal	3 806	3 744	4 448	2 509	2 286
Romania	25 475	8 351	8 501	15 598	16 874
Serbia	111	0	421	1 494	3 468
Slovenia	596	530	457	609	881
Spain	71 025	30 503	106 611	70 896	49 674
Sweden	6 371	3 346	4 406	4 224	3 947
Switzerland	3 644	2 605	3 020	3 156	3 359
Turkey	455	507	342	2 863	5 567
United Kingdom	56 794	61 308	89 474	99 872	88 042

Note(s)

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

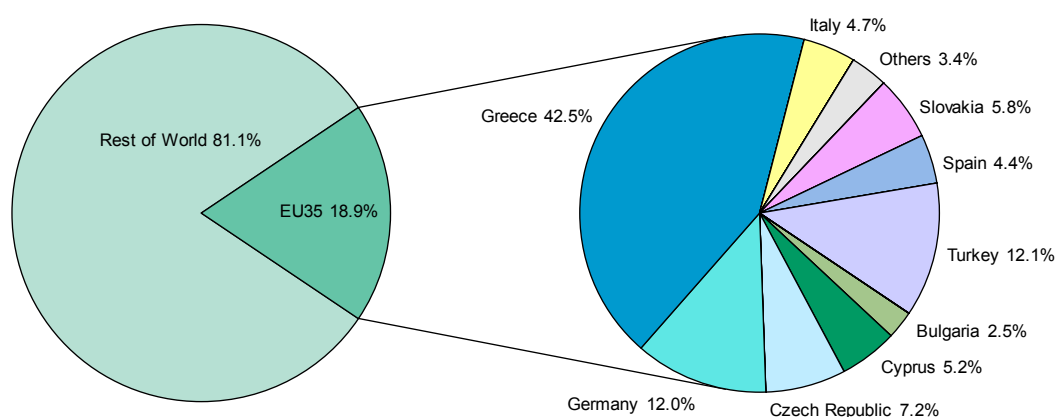
Barytes - EU35 trade in 2012



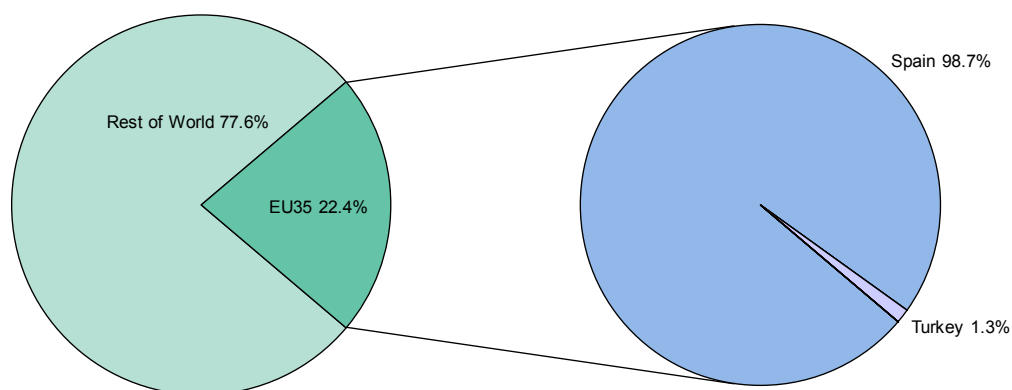
Bentonite and fullers earth

- Bentonites consist of montmorillonite (a clay mineral) that occurs as two main varieties — calcium bentonite and the more commercially important sodium bentonite. In the UK the name fuller's earth is given to calcium bentonite (and in the USA, attapulgite). Sepiolite is a fibrous clay that can be a substitute for bentonite. Calcium bentonite can be changed to sodium bentonite by the ion-exchange process. The main uses of bentonite and fuller's earth take advantage of their natural sorptive and thixotropic properties. They are used as additions to drilling muds, in making foundry moulds, pelletising iron ore and in the manufacture of cat litter.
- USA was the world's largest producer of bentonite in 2012, with 30 per cent of the total world output. The second largest was China (22 per cent), followed by Greece (eight per cent), India (seven per cent) and Mexico (six per cent). The USA was also the largest producer of fuller's earth.

EU35 Production of bentonite 2012



EU35 Production of attapulgite and sepiolite 2012



Production of bentonite and fuller's earth

tonnes

Country	2008	2009	2010	2011	2012
Bulgaria					
Bentonite	178 700	108 400	99 700	53 900	77 900
Croatia					
Bentonite	19 759	—	—	—	—
Cyprus					
Bentonite	155 125	152 722	162 969	160 625	160 180
Czech Republic					
Bentonite	235 000	177 000	183 000	160 000	221 000
Denmark					
Bentonite	22 458	24 040	23 832	38 300	30 330

Bentonite and Fuller's Earth

Production continued

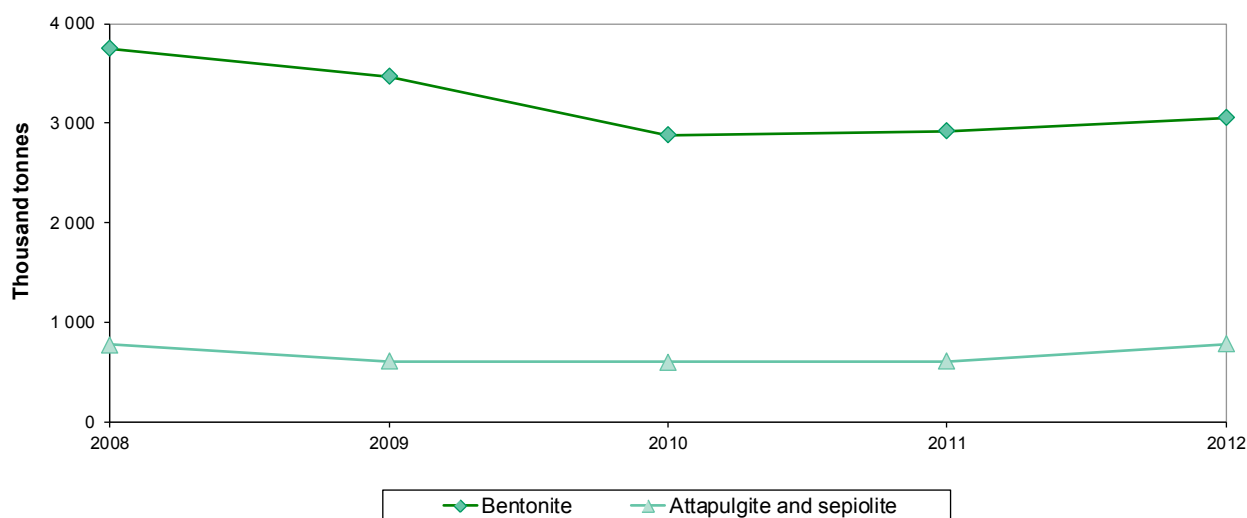
tonnes

Country	2008	2009	2010	2011	2012
France					
Bentonite	...	25 000	25 000	20 000	28 000
Germany					
Bentonite	414 336	326 461	362 623	375 332	366 220
Greece					
Bentonite	1 580 000	1 500 000	844 804	1 250 000	1 300 000
Hungary					
Bentonite	6 220	5 298	17 200	22 931	* 22 000
Italy					
Bentonite	124 419	114 212	104 279	105 952	144 710
Macedonia					
Bentonite	13 689	9 033	7 084	8 918	2 355
Poland					
Bentonite	3 000	2 800	2 000	900	800
Romania					
Bentonite	16 638	13 756	21 637	19 864	19 241
Slovakia					
Bentonite	145 000	109 000	153 000	213 000	177 000
Slovenia					
Bentonite	160	104	135	168	98
Spain					
Bentonite	154 534	147 090	157 001	110 371	135 445
Attapulgit	27 348	21 110	27 841	26 021	23 537
Sepiolite	737 659	573 937	557 862	566 270	748 863
Turkey					
Bentonite	683 253	753 155	718 260	379 917	* 370 000
Sepiolite	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
EU35 Total					
Bentonite	3 752 000	3 468 000	2 883 000	2 920 000	3 055 000
Attapulgit and sepiolite	775 000	605 000	596 000	602 000	782 000

Note(s)

- (1) Bentonites consist of montmorillonite (one of the smectite group of clay minerals) and occur in two main varieties, calcium bentonite, the most commonly occurring, and sodium bentonite, industrially the more important
- (2) Calcium bentonite can be converted to sodium bentonite by a sodium-exchange process
- (3) In some countries, such as the United Kingdom, calcium bentonite is known as fuller's earth, a term which is also used to refer attapulgit, 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, attapulgit and sepiolite 2008 - 12



Exports of bentonite and fuller's earth

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Bentonite	5 225	4 350	3 447	4 954	4 513
Belgium					
Bentonite	34 034	36 263	28 632	28 512	31 222
Bulgaria					
Bentonite	103 106	79 359	72 183	67 118	63 090
Cyprus					
Bentonite	92 089	95 674	98 803	114 923	130 413
Czech Republic					
Bentonite	105 403	99 584	120 859	143 788	151 474
Denmark					
Bentonite	15 734	13 004	13 787	13 827	17 711
Finland					
Bentonite	42	803	0	61	27
France					
Bentonite	12 231	9 211	12 709	11 472	8 826
Germany					
Bentonite	67 109	52 424	84 920	91 477	82 504
Greece					
Bentonite	8 885	5 116	13 203	33 306	14 233
Hungary					
Bentonite	1 191	555	954	782	1 047
Italy					
Bentonite	293 417	186 219	257 173	214 775	225 729
Lithuania					
Bentonite	1 929	266	442	1 628	1 386
Macedonia					
Bentonite	5 201	3 716	3 310	3 730	3 635
Montenegro					
Bentonite	1 384	24	48	27	26
Netherlands					
Bentonite	120 946	135 722	178 093	186 574	141 709
Norway					
Bentonite	157	294	3 726	318	1 318
Poland					
Bentonite	20 384	23 918	21 987	25 050	23 563
Portugal					
Bentonite	1 608	691	1 175	1 356	1 935
Serbia					
Bentonite	5 066	5 107	4 823	11 903	2 972
Slovakia					
Bentonite	79 936	65 429	32 981	85 760	98 257
Spain					
Bentonite	75 287	1 021 034	66 118	54 449	54 147
Sepiolite	460 485	418 644	...	...	...
Sweden					
Bentonite	11 640	5 588	3 457	3 300	5 492
Turkey					
Bentonite	244 177	250 082	307 891	319 189	337 860
United Kingdom					
Bentonite	43 261	34 622	41 323	38 478	39 535
Sepiolite	226	130	...	...	...

Note(s)

(1) See notes 1-3 to production table

(2) The figures in this table refer to natural and sodium-exchanged bentonite, Harmonised System 2508.10

(3) Activated bentonite and fuller's earth, Harmonised System 3802.90, are excluded

(4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Harmonised System 3802.90, e.g. Italy, but these are not included in the table

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

Imports of bentonite and fuller's earth

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Bentonite	68 703	66 575	90 229	83 313	91 208
Belgium					
Bentonite	74 216	62 885	72 971	91 291	68 771
Bulgaria					
Bentonite	3 386	2 422	2 548	2 591	2 074
Croatia					
Bentonite	39 289	22 383	7 852	16 906	5 394
Cyprus					
Bentonite	12 496	5 709	4 629	142	280
Czech Republic					
Bentonite	24 239	25 129	18 472	39 439	43 334
Denmark					
Bentonite	34 012	35 089	43 049	34 130	41 931
Estonia					
Bentonite	1 506	1 631	3 352	2 937	2 670
Finland					
Bentonite	31 445	19 429	16 293	21 194	24 913
France					
Bentonite	198 787	158 715	159 096	194 555	180 301
Germany					
Bentonite	361 782	335 990	386 261	447 793	450 850
Greece					
Bentonite	21 261	8 593	3 668	7 193	5 831
Hungary					
Bentonite	3 095	3 608	4 360	4 648	6 527
Iceland					
Bentonite	2 392	1 259	432	563	281
Ireland, Republic of					
Bentonite	2 643	2 741	2 734	2 623	2 788
Italy					
Bentonite	136 417	96 698	130 508	140 458	133 041
Latvia					
Bentonite	2 628	2 148	2 787	3 434	2 701
Lithuania					
Bentonite	3 068	3 368	4 378	6 250	6 656
Macedonia					
Bentonite	168	142	219	302	725
Malta					
Bentonite	639	635	921	844	446
Netherlands					
Bentonite	314 298	* 190 000	237 683	289 615	277 221
Norway					
Bentonite	14 783	12 612	14 506	12 668	11 620
Poland					
Bentonite	171 633	122 165	155 173	212 585	233 200
Portugal					
Bentonite	20 304	12 788	18 205	23 436	26 466
Romania					
Bentonite	6 014	3 859	4 825	6 341	8 463
Serbia					
Bentonite	3 370	2 274	1 683	1 804	5 294
Slovakia					
Bentonite	8 987	5 890	6 416	26 935	25 923
Slovenia					
Bentonite	3 976	4 421	4 191	4 790	5 905
Spain					
Bentonite	103 602	72 993	108 066	146 344	114 421
Sweden					
Bentonite	178 308	120 079	200 422	214 173	231 973
Switzerland					
Bentonite	21 876	20 407	20 362	19 316	19 203
Turkey					
Bentonite	9 806	1 827	1 641	1 915	1 952

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Bentonite	205 853	140 301	141 849	200 332	183 343
Sepiolite	227 453	70 651	...	...	...

Note(s)

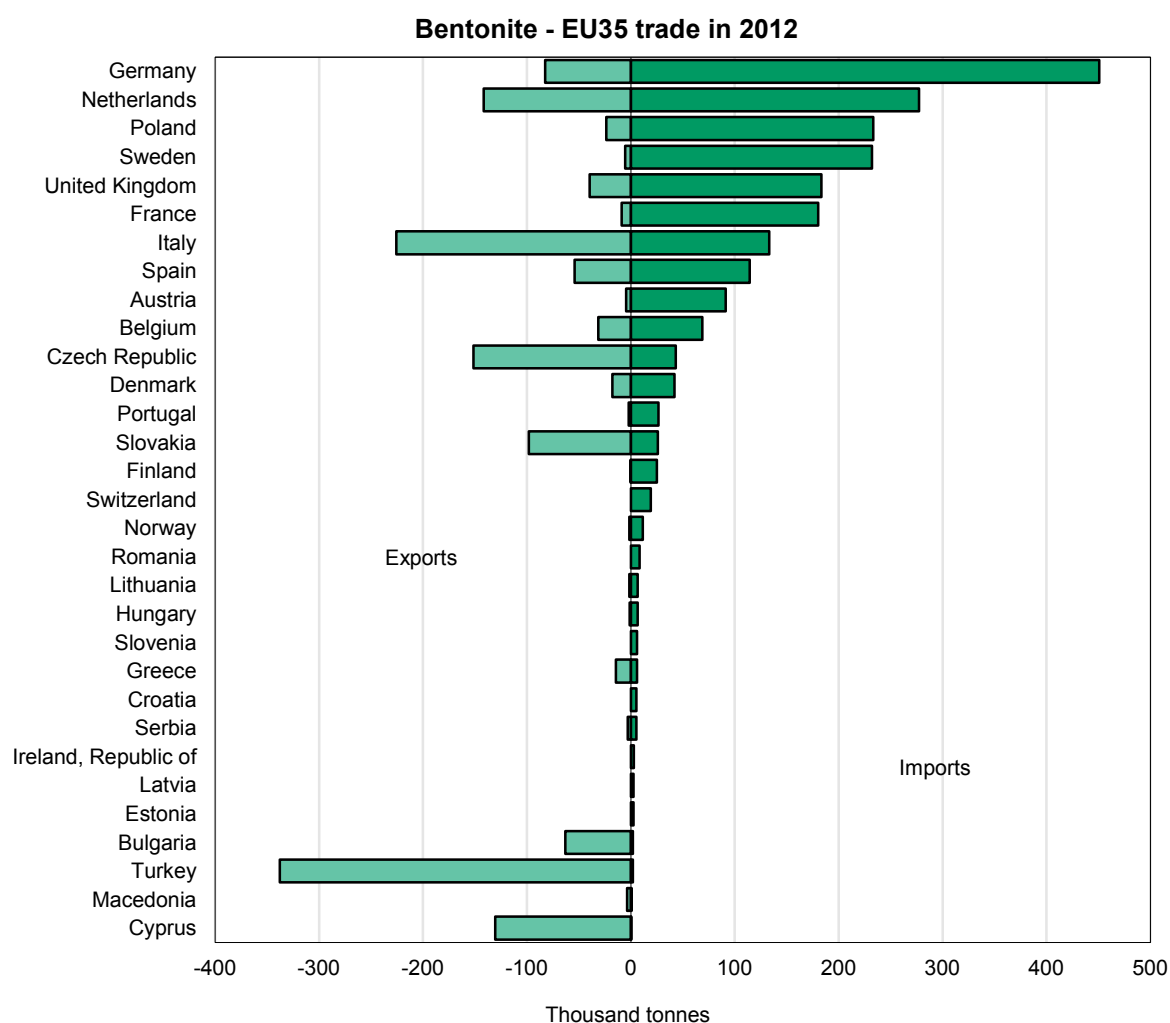
(1) See notes 1-3 to production table

(2) The figures in this table refer to natural and sodium-exchanged bentonite, Harmonised System 2508.10

(3) Activated bentonite and fuller's earth, Harmonised System 3802.90, are excluded

(4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Harmonised System 3802.90, e.g. Italy, but these are not included in the table

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



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 2012, with 50 per cent of the total world output. The second largest was Mexico (27 per cent), followed by Japan (15 per cent) and Canada (four per cent). Bismuth is also produced as a by-product of lead and zinc refining.

Mine production of bismuth

tonnes (metal content)

Country	2008	2009	2010	2011	2012
Bulgaria	* 45	* 45	* 45	* 45	* 45

Note(s)

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

Exports of bismuth

tonnes

Country	2008	2009	2010	2011	2012
Belgium	162	413	1	6	4
Czech Republic	3	—	19	3	4
France	74	6	20	49	115
Germany	276	143	178	210	195
Italy	38	5	1	13	11
Netherlands	196	28	34	32	52
Norway	1	—	25	—	—
Spain	19	14	9	9	4
Sweden	1	106	11	1	—
United Kingdom	905	941	427	1 038	744

Note(s)

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

Imports of bismuth

tonnes

Country	2008	2009	2010	2011	2012
Austria	148	80	130	138	139
Belgium	190	9	1	45	16
Czech Republic	78	53	106	264	110
France	219	102	100	205	281
Germany	1 262	881	1 052	1 282	1 155
Greece	3	0	0	12	21
Hungary	13	84	106	50	43
Ireland, Republic of	38	14	5	1	1
Italy	269	152	355	378	154
Netherlands	120	42	259	192	427
Poland	25	20	34	23	24
Slovenia	60	24	49	63	57
Spain	212	52	141	99	103
Sweden	12	6	12	2	4
Switzerland	12	12	25	18	12
Turkey	21	15	11	16	7
United Kingdom	1 582	310	366	411	481

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 29 per cent of the total world output. The second largest was Jordan (26 per cent), followed by Israel (22 per cent), China (19 per cent) and Japan (three per cent).

Exports of bromine

kilograms

Country	2008	2009	2010	2011	2012
Belgium	20 752 500	17 466 300	12 619 000	25 002 100	25 239 600
Finland	...	...	...	22 200	—
Germany	14 400	6 031	6 119	7 543	8 559
Netherlands	1 821 400	1 960 700	1 477 700	1 154 400	84 300
Poland	5 000	5 500	9 800	7 100	3 600
Spain	2 000	2 578	15 627	86 311	10 480
United Kingdom	1 015 304	497 246	780 704	1 472 523	1 377 726

Note(s)

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

Imports of bromine

kilograms

Country	2008	2009	2010	2011	2012
Austria	488 000	65 300	318 400	238 900	384 600
Belgium	26 540 000	20 618 700	18 693 500	28 221 500	28 260 600
Czech Republic	12 000	2 600	3 100	—	100
Finland	146 800	242 982	318 478	322 231	441 332
France	12 428 800	11 720 470	5 275 994	8 449 327	8 999 985
Germany	646 400	456 893	657 303	722 036	783 214
Hungary	9 900	10 500	4 500	8 800	5 600
Ireland, Republic of	1 520	799	743	38 566	675
Italy	598 800	958 588	1 259 187	1 207 042	939 005
Netherlands (a)	7 661	63 310	321 599	114 504	297 589
Poland	10 600	6 100	17 200	11 200	66 300
Romania	9 800	200	—	200	—
Spain	169 159	75 099	222 746	250 417	188 015
Sweden	31 700	3 100	4 200	4 300	7 800
Turkey (a)	6 761	6 497	8 373	11 462	6 869
United Kingdom	5 903 423	6 534 300	5 787 829	9 485 963	7 817 484

Note(s)

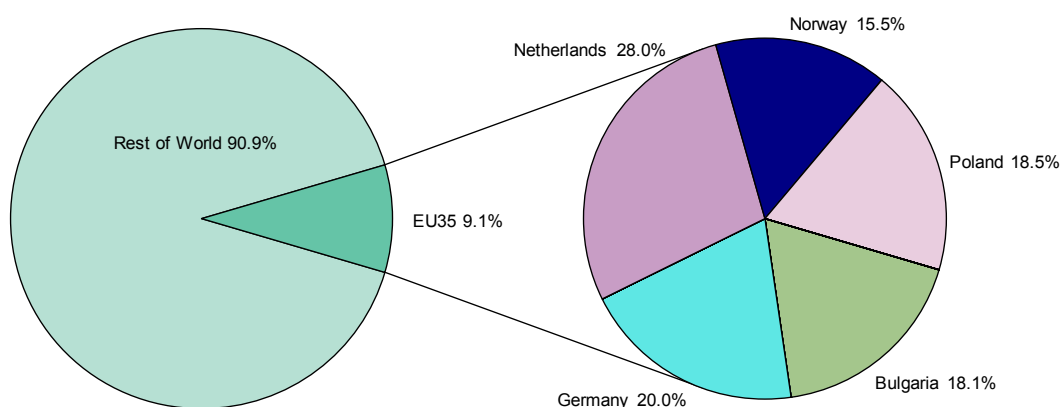
(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

(a) May include some fluorine

Cadmium

- Cadmium is a highly toxic metallic element mostly produced as a by-product of zinc refining. The bulk of cadmium in use is in nickel-cadmium (NiCd) rechargeable batteries. Other major uses are in pigments and in metal coatings.
- China was the world's largest producer in 2012, with 32 per cent of the total world output. The second largest was South Korea (18 per cent), followed by Japan (eight per cent), Mexico (7 per cent) and Canada (six per cent).

EU35 Production of cadmium 2012



Production of cadmium

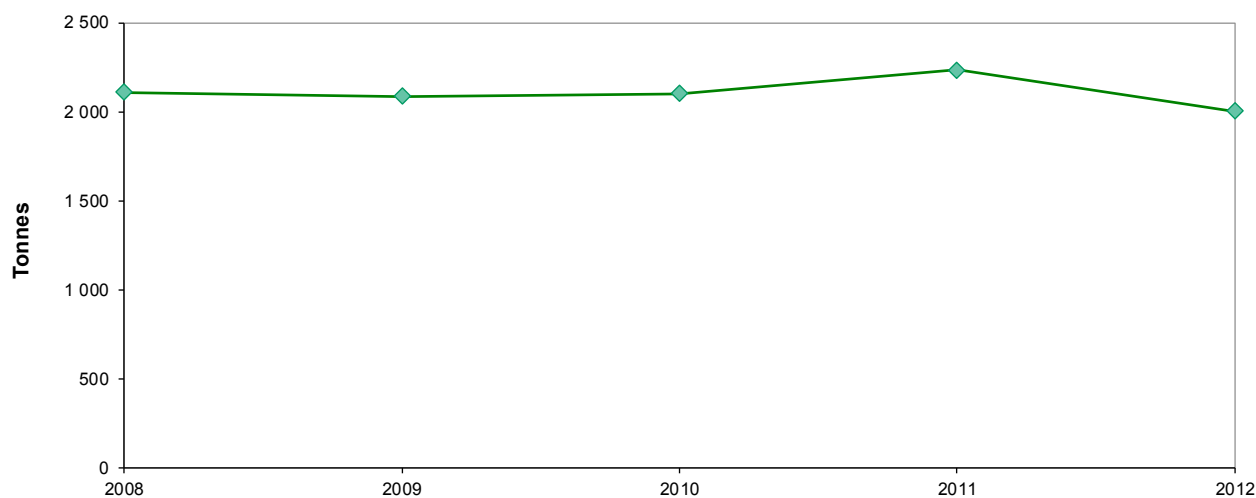
tonnes

Country	2008	2009	2010	2011	2012
Bulgaria	376	413	389	427	363
Germany	420	* 400	* 400	* 400	* 400
Netherlands	530	* 490	* 560	* 570	* 560
Norway	178	249	300	309	* 310
Poland	603	534	451	526	370
EU35 Total	2 100	2 100	2 100	2 200	2 000

Note(s)

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

EU35 Production of cadmium 2008 - 12



Exports of cadmium

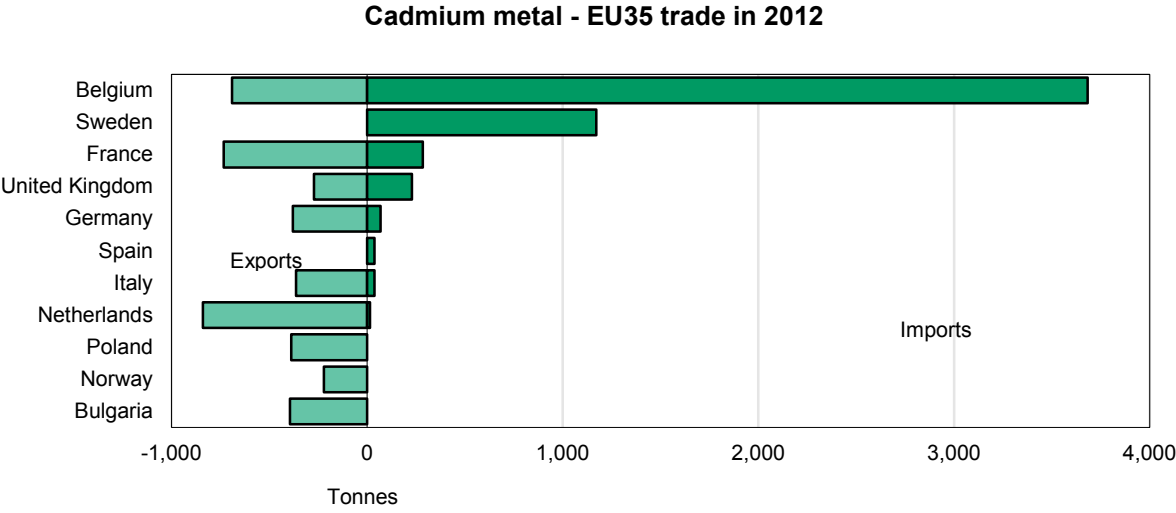
tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Metal	442	452	459	545	690
Oxide	4 677	4 033	4 413	3 734	3 764
Bulgaria					
Metal	374	569	474	421	394
France					
Metal	890	1 022	763	549	733
Germany					
Metal	287	276	523	348	379
Italy					
Metal	1 633	2 030	3 104	1 722	363
Netherlands					
Metal	816	305	606	617	839
Norway					
Metal	259	211	329	317	221
Poland					
Metal	558	590	484	579	388
Sweden					
Oxide	448	305	360	429	335
United Kingdom					
Metal	54	25	2 545	1 441	272

Imports of cadmium

tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Metal	5 511	3 439	6 456	5 932	3 683
Oxide	10	28	43	109	7
Czech Republic					
Oxide	463	396	464	487	439
France					
Metal	645	455	212	100	285
Oxide	1 114	605	18	7	6
Germany					
Metal	53	11	18	40	69
Oxide	507	522	625	489	653
Greece					
Metal	18	39	1	0	—
Italy					
Metal	49	43	3	44	37
Netherlands					
Metal	186	50	102	1	15
Spain					
Metal	21	118	153	38	37
Sweden					
Metal	851	588	825	1 127	1 172
Oxide	83	42	107	172	145
United Kingdom					
Metal	212	246	470	542	229
Oxide	386	181	309	281	169



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.

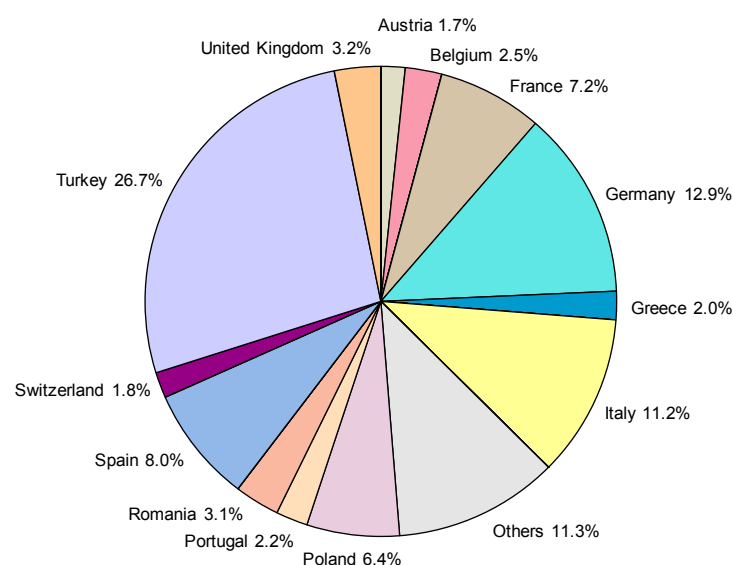
Production of cement clinker

tonnes

Country	2008	2009	2010	2011	2012
Austria	287 911	160 223	54 369	131 734	* 130 000
Belgium	...	1 123 722	858 871	* 800 000	726 690
Bulgaria	3 509 817	1 858 850	2 071 100	1 475 700	* 1 500 000
Cyprus	—	30 286	—	—	—
Czech Republic	3 137 828	2 433 746	2 260 561	2 617 072	2 371 207
Denmark	16 092	122	3 819	25	24 256
Estonia	1 040 000	448 500	537 000	719 000	714 600
France	16 885 000	14 568 000	14 901 000	15 229 000	14 178 000
Germany	25 366 000	23 232 000	22 996 000	24 775 000	24 581 000
Greece	11 361 397	8 649 322	7 446 775	4 569 167	* 4 500 000
Hungary	* 2 500 000	* 2 200 000	* 1 500 000	1 167 942	1 332 354
Italy (a)	957 371	637 853	966 577	1 286 791	1 284 948
Latvia	...	...	1 158 000	1 277 000	1 485 720
Lithuania	—	233 292	—	—	—
Luxembourg	761 800	706 426	736 000	770 232	* 750 000
Norway	* 1 600 000	* 1 550 000	* 1 550 000	1 415 000	* 1 400 000
Poland	12 443 103	10 659 214	11 767 782	13 629 500	11 807 300
Portugal (a)	1 749 406	1 513 558	1 948 137	1 094 218	* 1 000 000
Romania	111 719	—	—	33 363	84 853
Slovakia	...	1 822 820	1 607 025	1 823 306	1 490 768
Spain	27 304 551	21 594 604	21 234 637	17 000 000	* 15 000 000
Sweden	1 881 054	1 702 019	1 790 784	* 1 750 000	* 1 750 000
Turkey	41 652 824	41 084 368	54 222 939	53 228 248	* 53 000 000
United Kingdom	8 700 000	6 421 000	6 598 000	7 096 000	6 555 000
EU35 Total	161 000 000	143 000 000	156 000 000	152 000 000	146 000 000

Note(s)
(a) Sales

EU35 Production of finished cement 2012



Production of finished cement

tonnes

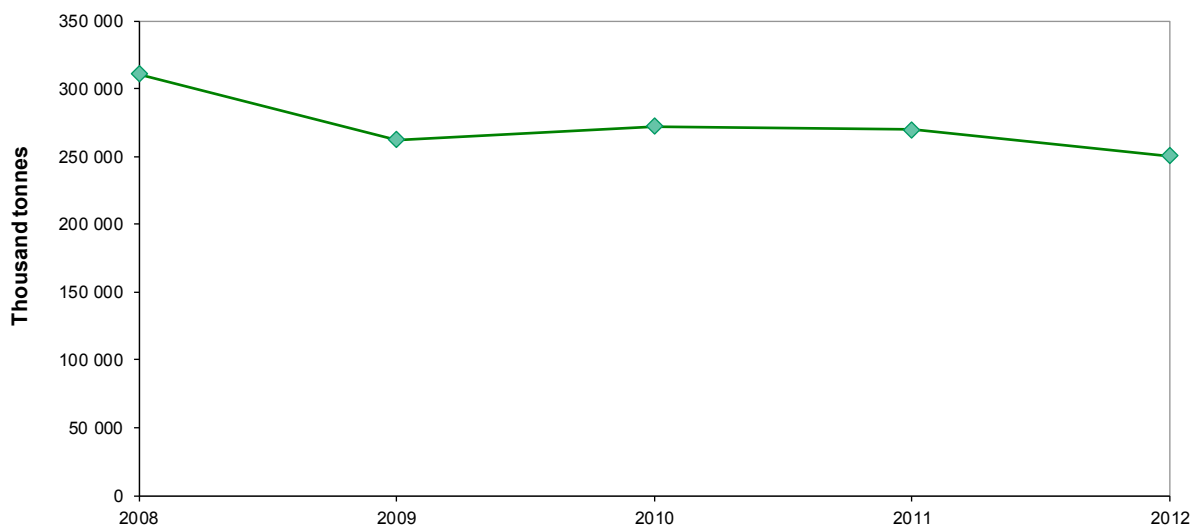
Country	2008	2009	2010	2011	2012
Austria	6 131 257	4 847 862	4 499 402	4 291 449	4 162 406
Belgium	7 135 000	6 113 000	5 990 000	6 844 000	6 280 000
Bulgaria	4 900 336	2 660 176	1 981 971	1 889 502	1 754 204
Cyprus	1 913 620	1 480 843	1 328 763	1 206 786	1 080 019
Czech Republic	4 804 845	3 851 100	3 558 536	4 052 558	3 620 330
Denmark	2 538 822	1 578 614	1 566 624	1 852 804	1 817 334
Estonia	808 000	326 200	375 000	451 000	481 500
Finland (a)	1 638 000	1 041 866	1 204 581	1 379 760	1 292 855
France	21 443 000	18 300 000	17 998 000	19 433 000	18 018 000
Germany	33 581 000	30 441 000	29 915 000	33 540 000	32 432 000
Greece	14 013 312	11 160 205	8 778 949	5 822 967	4 894 332
Hungary	3 544 000	* 3 200 000	* 2 560 000	* 2 200 000	* 2 300 000
Ireland, Republic of	* 3 910 000	* 2 720 000	* 2 290 000	* 1 700 000	* 1 600 000
Italy	42 863 063	33 611 625	37 061 576	35 687 105	28 005 259
Latvia	* 310 000	* 650 000	* 1 100 000	* 1 100 000	* 1 100 000
Lithuania	1 075 581	583 067	834 000	996 284	1 014 977
Luxembourg	907 500	929 820	1 030 700	1 232 633	* 1 200 000
Netherlands	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000	* 2 700 000
Norway	* 1 700 000	* 1 650 000	* 1 650 000	1 547 000	* 1 500 000
Poland	17 206 735	15 536 984	15 756 000	18 929 000	15 918 614
Portugal (a)	8 405 420	6 862 969	6 665 585	6 072 751	5 481 454
Romania	10 461 456	7 897 656	6 867 596	7 646 612	7 727 046
Slovakia	4 157 356	3 011 460	2 887 749	3 219 557	2 915 166
Slovenia	* 1 300 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Spain	42 088 110	29 504 574	26 217 200	22 000 000	* 20 000 000
Sweden	* 2 950 000	* 2 900 000	* 2 900 000	* 2 900 000	* 2 900 000
Switzerland (b)	4 238 311	4 333 096	4 553 077	4 687 138	4 395 084
Turkey	54 027 283	55 741 176	70 800 657	66 656 800	* 67 000 000
United Kingdom (c)	10 071 000	7 623 000	7 883 000	8 529 000	7 952 000
EU35 Total	310 800 000	262 300 000	272 000 000	269 600 000	250 500 000

Note(s)

(a) Sales

(b) Includes production in Liechtenstein

(c) Great Britain only

EU35 Production of finished cement 2008 - 12

Exports of cement

Country	2008	2009	2010	2011	2012
Austria					
Cement clinkers	243 906	146 991	46 560	173 312	121 529
Portland cement	344 338	272 440	213 082	330 710	299 060
Other cement	82 570	56 934	50 592	25 432	21 521
Belgium					
Cement clinkers	893 494	936 451	582 766	744 707	638 496
Portland cement	1 960 360	1 722 252	1 676 150	1 729 402	1 631 167
Other cement	556 870	417 798	410 909	353 126	253 759
Bulgaria					
Cement clinkers	120 588	14 836	5 246	8 131	296 372
Portland cement	130 932	109 923	164 404	190 570	269 199
Other cement	22 589	394	1 772	6 516	21 341
Croatia					
Cement clinkers	235 377	169 394	176 403	103 281	284 480
Portland cement	667 503	615 827	639 236	1 189 738	897 747
Other cement	468 597	276 981	601 470	180 836	102 405
Cyprus					
Cement clinkers	0	24 215	—	—	6 535
Portland cement	—	27 324	12 866	42 438	248 521
Czech Republic					
Cement clinkers	19 039	85 427	88 236	169	10 362
Portland cement	436 600	374 515	402 537	844 920	665 669
Other cement	196 133	156 650	218 689	232	124
Denmark					
Cement clinkers	7 287	7 784	11 884	2 689	24 658
Portland cement	969 666	568 656	731 730	813 938	767 554
Other cement	25 482	20 751	3 860	4 175	4 565
Estonia					
Cement clinkers	426 384	395 641	222 190	426 994	347 754
Portland cement	383 449	120 294	148 505	186 255	208 131
Other cement	1 387	59	488	752	1 107
Finland					
Portland cement	2 618	1 275	373	92	6
France					
Cement clinkers	260 529	170 883	282 673	179 184	210 901
Portland cement	578 230	621 568	766 167	764 305	765 777
Other cement	10 056	—	—	—	—
Germany					
Cement clinkers	1 120 078	467 042	680 552	761 406	475 987
Portland cement	5 115 858	4 445 980	4 173 112	5 002 240	4 672 927
Other cement	2 077 175	2 101 709	2 010 734	2 159 075	1 794 724
Greece					
Cement clinkers	722 151	851 946	722 142	459 716	1 877 641
Portland cement	2 842 584	3 051 954	3 122 615	1 548 482	2 398 675
Other cement	205 640	297 036	47 435	155 000	604
Hungary					
Cement clinkers	—	1 701	296	25	203 686
Portland cement	329 647	220 069	185 279	277 497	269 382
Other cement	25 169	2 987	795	6 451	1 363
Ireland, Republic of					
Cement clinkers	—	4 823	1	—	16 698
Portland cement	1 144 186	1 054 533	1 025 910	942 940	1 238 718
Other cement	1 512	1 317	8 787	1 158	971
Italy					
Cement clinkers	38 106	5 280	52 673	45 472	47 155
Portland cement	2 094 130	1 637 605	2 035 118	1 681 397	1 838 228
Other cement	491 150	469 636	393 746	250 624	200 038
Latvia					
Cement clinkers	—	2 382	68 802	201 050	163 102
Portland cement	240 311	147 960	562 435	673 260	759 738
Other cement	20	126	76	250	176
Lithuania					
Cement clinkers	130	39 878	14	98	19
Portland cement	204 951	170 273	352 750	450 601	529 457
Other cement	1 531	491	1 151	406	36

Cement

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Luxembourg					
Cement clinkers	181 689	58 463	7 695	4 215	1
Portland cement	109 447	119 660	341 075	424 306	321 903
Other cement	264 233	137 975	219 688	320 980	338 240
Macedonia					
Cement clinkers	173 089	5 638	...	0	154 117
Portland cement	281 782	361 677	315 074	277 326	136 803
Montenegro					
Portland cement	...	...	...	2 372	1 583
Netherlands					
Cement clinkers	0	352	34	3 911	33 160
Portland cement	298 133	194 392	201 065	310 479	274 856
Other cement	6 217	11 447	57 922	150 175	203 678
Norway					
Cement clinkers (a)	* 118 000	* 104 000	* 150 000	* 251 000	* 104 000
Portland cement (a)	* 152 000	* 14 200	* 144 000	* 94 000	* 138 000
Poland					
Cement clinkers	163 902	127 806	89 692	46 295	99 977
Portland cement	314 733	405 940	415 187	358 847	303 667
Other cement	78 349	35 305	22 984	17 523	28 200
Portugal					
Cement clinkers	1 448 397	1 553 992	1 888 362	916 431	994 099
Portland cement	1 102 589	758 854	996 778	1 345 607	2 000 541
Other cement	11 139	15 231	10 440	8 111	40 461
Romania					
Cement clinkers	111 719	182	265	24 810	84 874
Portland cement	7 449	17 869	20 039	278 795	333 946
Other cement	51	155	214	16 310	16 668
Serbia					
Cement clinkers	385 154	66 309	...	...	...
Portland cement	138 375	76 539	156 477	115 432	138 914
Other cement	2 560	125	33	28	29
Slovakia					
Cement clinkers	53 871	127 016	69 366	44 607	—
Portland cement	1 622 292	1 344 258	1 396 241	1 795 235	1 407 502
Other cement	144 311	217 328	21 660	10	28
Slovenia					
Cement clinkers	1	—	42 475	140 361	175 807
Portland cement	77 656	96 736	168 056	200 615	172 090
Other cement	227 400	97 258	4 731	988	308
Spain					
Cement clinkers	907 694	1 181 783	1 545 705	1 590 245	3 487 481
Portland cement	1 474 428	1 411 588	2 768 457	2 577 325	3 033 778
Other cement	63 825	74 007	87 864	184 099	117 093
Sweden					
Cement clinkers	217	577 571	505 585	267 884	391 898
Portland cement	723 793	482 223	467 559	590 443	782 362
Other cement	14 082	7 166	5 819	7 120	8 546
Switzerland					
Cement clinkers	91 167	70 207	6 983	104	35
Portland cement	35 925	15 044	103 952	63 262	72 143
Other cement	9 009	4 062	2 959	51	67
Turkey					
Cement clinkers	2 558 779	3 856 403	2 792 332	2 472 979	2 980 566
Portland cement	11 010 951	16 356 895	15 842 398	11 750 755	10 716 605
Other cement	150 785	245 770	415 763	315 159	104 504
United Kingdom					
Cement clinkers	15 071	4 708	5 500	15 531	31 458
Portland cement	230 920	92 628	134 223	121 537	239 058
Other cement	93 122	51 359	56 781	62 333	75 502

Note(s)

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

Imports of cement

Country	2008	2009	2010	2011	2012
Austria					
Cement clinkers	456 127	404 998	407 616	393 132	297 009
Portland cement	753 529	639 545	637 550	913 116	797 976
Other cement	40 766	52 715	71 535	60 349	54 115
Belgium					
Cement clinkers	627 133	684 634	740 528	717 664	649 014
Portland cement	954 591	819 923	1 030 282	1 113 638	1 310 336
Other cement	292 741	252 247	172 609	158 441	163 298
Bulgaria					
Cement clinkers	248 737	45 002	16 167	17 478	14 586
Portland cement	13 645	481 991	448 220	431 780	436 036
Other cement	1 110	955	2 510	6 147	8 567
Croatia					
Cement clinkers	50	1	967	144	44
Portland cement	393 886	393 613	344 352	326 526	315 804
Other cement	7 447	10 620	7 619	4 200	1 001
Cyprus					
Cement clinkers	66 787	15 455	29 579	69 780	6 498
Portland cement	29 311	249	2 512	545	416
Czech Republic					
Cement clinkers	134 179	101 031	121 682	44 577	86 089
Portland cement	932 685	890 776	702 257	765 382	638 364
Other cement	23 816	51 482	48 336	31 074	26 875
Denmark					
Cement clinkers	33 825	31 847	23 732	29 888	24 464
Portland cement	289 307	208 467	180 249	244 007	211 379
Other cement	38 687	46 117	38 797	19 941	19 569
Estonia					
Cement clinkers	25 438	—	13 474	(a)* 1 800	4 688
Portland cement	4 613	30 424	36 354	52 807	27 404
Other cement	304	458	827	1 545	13 043
Finland					
Cement clinkers	236 439	536	14 191	16 790	7 512
Portland cement	281 924	320 084	587 410	549 673	498 577
Other cement	15 911	12 232	10 202	16 408	13 870
France					
Cement clinkers	1 338 362	784 892	838 538	849 577	693 269
Portland cement	1 940 065	1 744 423	2 422 582	3 113 977	3 057 832
Other cement	1 185 083	980 685	559 436	246 702	239 915
Germany					
Cement clinkers	14 184	9 200	18 037	52 111	82 345
Portland cement	770 566	904 023	939 310	1 054 856	1 023 170
Other cement	293 583	272 741	255 027	217 931	218 486
Greece					
Cement clinkers	23 558	4 249	12 100	34 712	65 317
Portland cement	74 239	136 300	206 164	159 514	49 204
Other cement	2 618	2 359	15 136	22 371	22 214
Hungary					
Cement clinkers	...	117 232	69 469	67 770	43 196
Portland cement	643 776	565 552	495 045	785 166	710 516
Other cement	55 798	49 051	34 191	33 802	6 809
Iceland					
Cement clinkers	628	30	42	49	71
Portland cement	111 918	38 640	24 481	26 714	64 565
Other cement	505	241	4 405	226	229
Ireland, Republic of					
Cement clinkers	36 153	31 983	15 459	23 190	24 718
Portland cement	780 528	192 556	133 977	100 440	86 608
Other cement	14 649	10 698	4 974	4 112	4 375
Italy					
Cement clinkers	2 095 716	1 495 609	797 703	844 108	729 063
Portland cement	962 746	1 433 820	1 298 080	1 119 225	998 392
Other cement	295 988	308 222	139 459	125 066	106 926

Cement

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Latvia					
Cement clinkers	30 233	34 375	158	6 551	701
Portland cement	353 174	87 660	94 873	89 751	108 596
Other cement	209	1 088	643	281	306
Lithuania					
Cement clinkers	79 102	996	176 461	227 793	173 488
Portland cement	111 578	133 039	122 178	144 824	147 329
Luxembourg					
Cement clinkers	36 976	17 827	27 238	34 532	34 703
Portland cement	33 617	56 666	34 642	42 548	37 740
Other cement	22 879	16 255	12 119	14 934	15 382
Macedonia					
Cement clinkers	(a)* 9 000	(a)* 17 000	(a)* 2 000	8 932	(a)* —
Portland cement	136 030	193 076	185 378	148 954	193 978
Other cement	797	397	1 213	409	501
Malta					
Portland cement	374 392	328 411	285 182	258 304	260 664
Other cement	1 498	1 552	13 002	6 676	2 906
Montenegro					
Portland cement	517 062	279 497	266 063	250 759	248 013
Other cement	214 958	171 150	116 132	90 911	92 927
Netherlands					
Cement clinkers	380 281	511 560	636 694	424 274	558 153
Portland cement	1 705 144	904 788	1 123 936	1 580 140	1 278 033
Other cement	993 318	842 190	1 136 163	1 475 035	1 488 241
Norway					
Cement clinkers	36 704	6 904	7 070	170	312
Portland cement	361 216	237 896	353 102	409 018	435 344
Other cement	22 317	20 474	21 621	25 809	28 533
Poland					
Cement clinkers	127 428	35 106	111 677	35 663	13 558
Portland cement	680 447	421 822	565 893	932 507	695 629
Other cement	29 529	21 466	26 247	25 467	21 027
Portugal					
Cement clinkers	196 929	24 156	24 143	3 238	6 011
Portland cement	22 862	150 065	186 170	134 000	169 109
Other cement	8 842	11 072	11 771	5 043	5 293
Romania					
Cement clinkers	486 462	23 613	75 812	144 547	144 116
Portland cement	538 259	296 687	307 977	239 373	240 469
Other cement	32 765	15 779	22 004	21 297	18 626
Serbia					
Cement clinkers	24 795	...	1 321	5 309	51 360
Portland cement	62 283	41 744	52 582	92 665	194 728
Other cement	1 124	1 003	728	784	664
Slovakia					
Cement clinkers	94 510	13 076	6 380	9 706	5 840
Portland cement	172 555	284 457	256 358	281 910	266 308
Other cement	93 031	56 060	34 733	102 134	71 001
Slovenia					
Cement clinkers	5 783	60	129	95 704	168 235
Portland cement	326 096	297 617	328 563	334 053	210 734
Other cement	4 618	17 414	17 328	8 237	4 077
Spain					
Cement clinkers	5 496 563	2 079 944	1 342 279	490 164	80 228
Portland cement	1 729 088	694 757	637 322	450 416	363 065
Other cement	58 007	73 362	14 516	15 894	17 347
Sweden					
Cement clinkers	37 009	10 434	36 629	58 132	5 230
Portland cement	61 891	29 482	348 431	419 332	391 030
Other cement	50 333	37 308	36 399	42 002	43 520
Switzerland					
Cement clinkers	8 596	27 649	74 946	46 117	2 580
Portland cement	361 305	364 034	465 699	538 979	526 305
Other cement	30 908	36 464	49 549	73 361	92 633

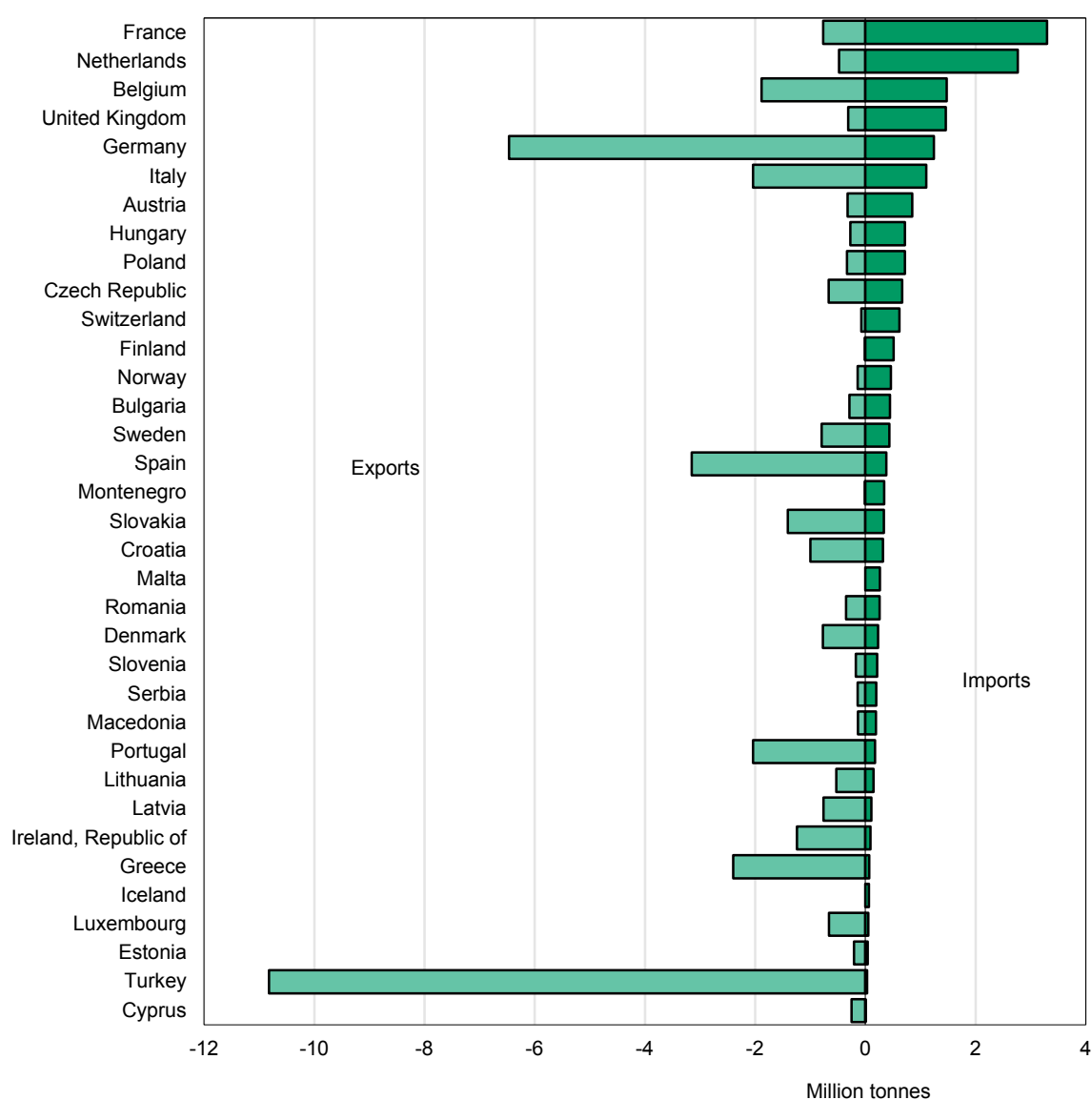
Imports continued

Country	2008	2009	2010	2011	2012
Turkey					
Cement clinkers	380 516	6 053	58 176	10 511	58 098
Portland cement	12 279	13 471	5 875	3 406	21 972
Other cement	5 036	3 358	6 168	10 847	7 142
United Kingdom					
Cement clinkers	366 791	206 857	201 308	208 595	206 086
Portland cement	1 731 228	1 718 146	1 759 841	1 746 862	1 429 848
Other cement	28 324	30 815	92 031	100 453	31 045

Note(s)

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

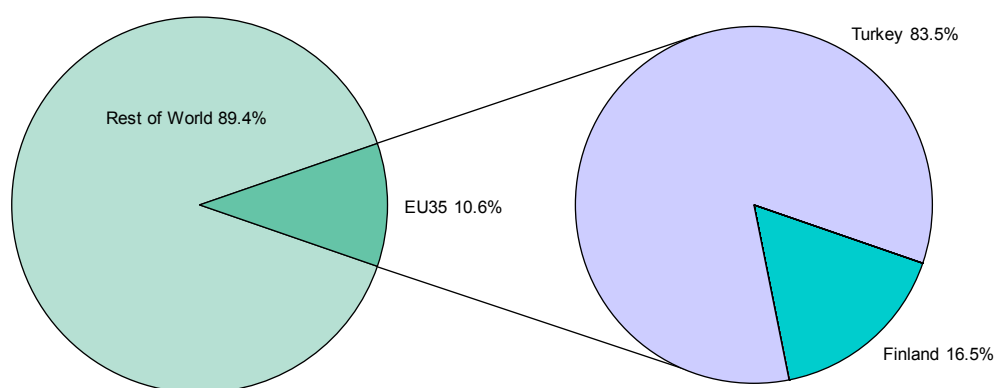
Cement - EU35 trade in 2012



Chromium ores and concentrates

- Chromium is a hard metallic element that is an essential component of stainless steel and other alloy steels, where it is used in the form of the alloy ferro-chromium. It is also used extensively in superalloys and metal plating. Its compounds are important pigments and the natural mineral chromite is used in refractories.
- South Africa was the world's largest producer in 2012, with 44 per cent of the total world output. The second largest was Kazakhstan (20 per cent), followed by India (12 per cent), Turkey (nine per cent) and Oman (two per cent).

EU35 Production of chromium ores and concentrates 2012



Production of chromium ores and concentrates

tonnes

Country	2008	2009	2010	2011	2012
Finland	614 000	247 000	598 000	693 000	452 000
Turkey	1 885 712	1 770 029	2 461 314	2 281 981	* 2 280 000
EU35 Total	2 500 000	2 017 000	3 059 000	2 975 000	2 732 000

Note(s)

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

EU35 Production of chromium ores and concentrates 2008 - 12



Exports of chromium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Ores and concentrates	833	333	4	1 163	413
Metal	6 596	5 845	10 245	2 138	565
Belgium					
Ores and concentrates	48 086	15 562	18 415	13 945	34 801
Metal	772	1 226	1 311	1 010	676
Bulgaria					
Metal	...	...	...	603	304
Czech Republic					
Ores and concentrates	507	369	764	1 140	1 061
Metal	594	662	21	103	31
Denmark					
Metal	1 262	659	1 056	601	548
Finland					
Ores and concentrates	3 041	2 050	8 291	5 231	4 575
Metal	1 034	1 577	1 813	2 366	1 950
France					
Ores and concentrates	4 694	1 935	2 422	2 168	1 858
Metal	7 844	4 767	7 612	8 034	9 720
Germany					
Ores and concentrates	23 563	15 922	32 070	53 989	60 354
Metal	5 379	4 685	4 606	2 995	6 308
Italy					
Ores and concentrates	2 567	1 762	1 617	3 764	1 831
Metal	166	29	5	1	35
Netherlands					
Ores and concentrates	117 639	32 485	74 483	126 012	156 975
Metal	4 282	885	3 569	2 197	3 112
Norway					
Metal	128	85	97	78	202
Poland					
Ores and concentrates	66	107	425	3 604	536
Metal	1 465	861	7 948	7 135	2 977
Slovakia					
Metal	1 299	424	777	83	2
Slovenia					
Metal	111	14	123	174	1
Spain					
Ores and concentrates	1 073	1 022	600	1 252	4 225
Metal	1 165	516	665	237	555
Sweden					
Metal	225	100	191	167	123
Switzerland					
Metal	54	44	82	92	111
Turkey					
Ores and concentrates	1 816 427	1 748 194	2 256 387	2 161 001	2 129 693
Metal	122	2 667	184	1 930	2 344
United Kingdom					
Ores and concentrates	—	32 507	297	168	50
Metal	6 501	5 058	7 441	8 017	7 737

Note(s)

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

Imports of chromium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Ores and concentrates	42 008	25 891	54 945	20 921	33 317
Metal	8 006	4 325	6 109	7 868	4 854
Belgium					
Ores and concentrates	56 183	19 050	25 350	22 896	39 090
Metal	1 097	871	1 593	3 023	977
Bulgaria					
Ores and concentrates	793	637	671	971	1 086
Croatia					
Ores and concentrates	568	282	143	190	73
Metal	394	307	419	345	404
Czech Republic					
Ores and concentrates	12 990	7 798	7 975	7 986	8 413
Metal	282	83	514	139	147
Denmark					
Ores and concentrates	974	384	480	864	880
Finland					
Ores and concentrates	8 866	4 521	9 197	20 853	9 372
Metal	327	105	139	194	139
France					
Ores and concentrates	26 952	10 813	11 273	15 835	14 844
Metal	1 335	478	1 155	524	466
Germany					
Ores and concentrates	175 277	45 684	101 972	180 377	188 783
Metal	7 022	3 328	4 783	5 931	6 887
Ireland, Republic of					
Metal	120	138	83	179	40
Italy					
Ores and concentrates	36 552	23 842	22 012	31 861	30 547
Metal	721	943	881	1 738	1 598
Macedonia					
Ores and concentrates	306	495	294	512	324
Netherlands					
Ores and concentrates	145 698	18 702	88 788	135 776	180 648
Metal	3 897	2 157	6 642	5 773	4 789
Norway					
Ores and concentrates (a)	* 600	* 400	* 400	* 500	* 300
Metal	128	74	90	437	453
Poland					
Ores and concentrates	36 646	12 728	15 672	30 863	27 723
Metal	2 137	679	103	4 533	78
Portugal					
Ores and concentrates	5 369	2 361	2 108	2 727	2 639
Romania					
Ores and concentrates	77 546	705	7 054	1 637	2 288
Metal	64	39	16	105	50
Serbia					
Ores and concentrates	519	436	641	725	211
Slovakia					
Ores and concentrates	11 969	2 533	4 546	5 542	3 562
Metal	104	52	34	8	42
Slovenia					
Ores and concentrates	999	1 005	1 912	966	466
Metal	313	143	104	97	101
Spain					
Ores and concentrates	6 721	4 031	5 579	9 262	10 487
Metal	1 219	1 192	1 878	2 350	1 479
Sweden					
Ores and concentrates (a)	* 274 900	* 127 500	* 169 000	* 128 600	* 135 900
Metal	12 782	4 396	4 999	6 598	6 139
Switzerland					
Ores and concentrates	1 510	974	1 051	809	1 359
Metal	134	38	74	71	93
Turkey					
Ores and concentrates	119 806	113 461	113 487	122 070	162 266
Metal	60	54	65	108	91

Imports continued

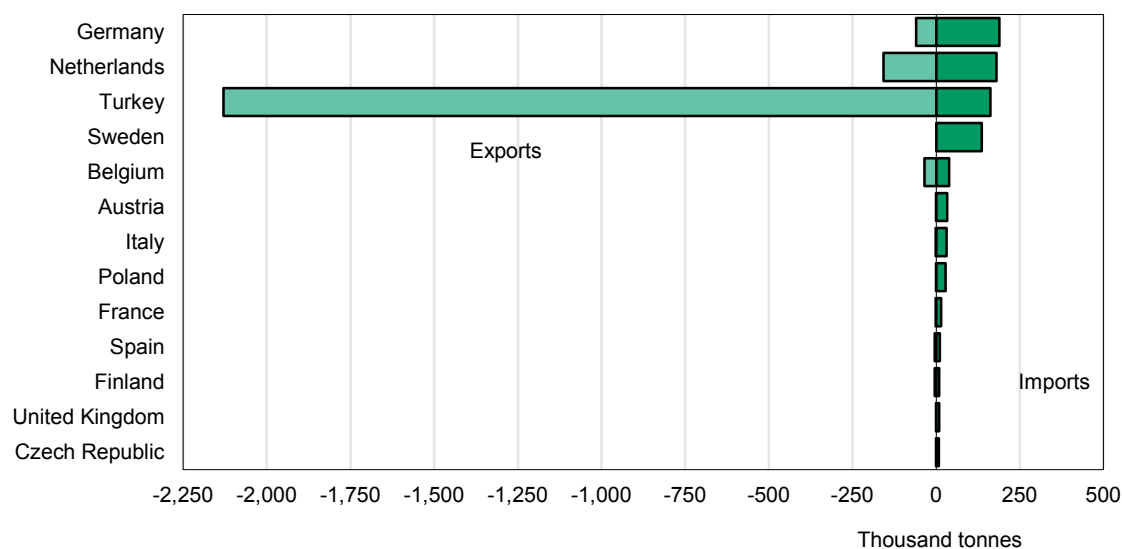
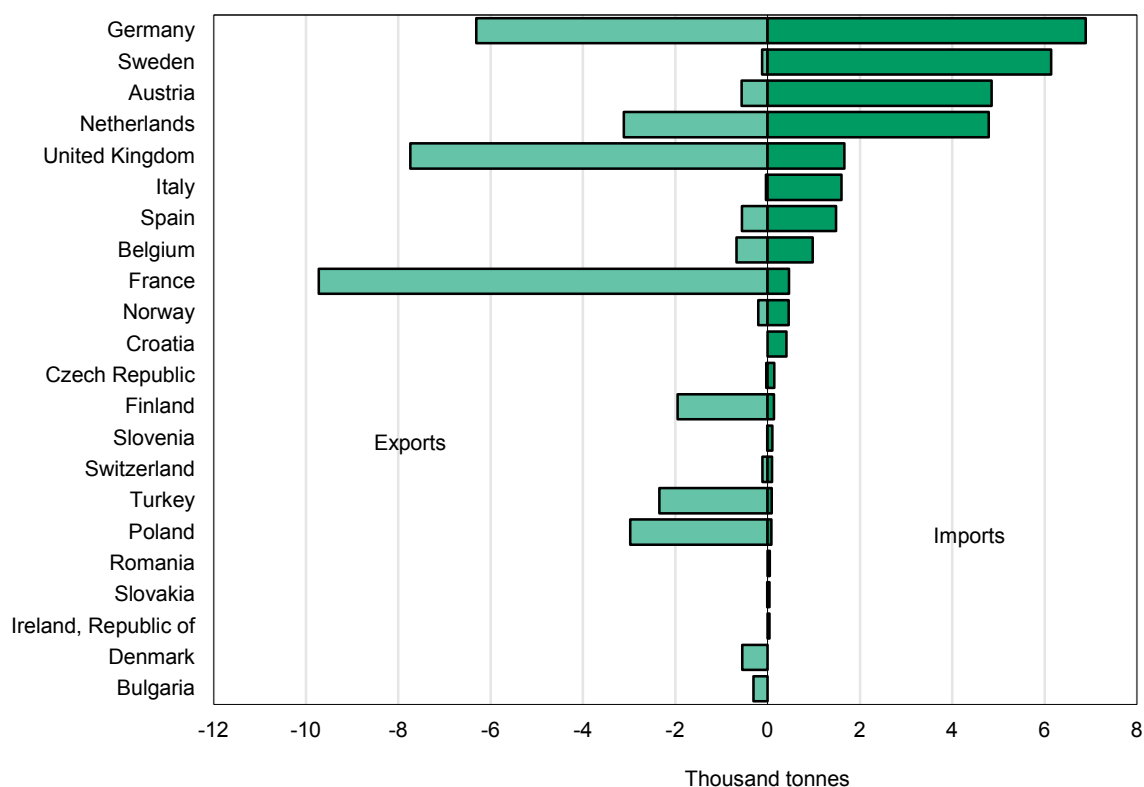
tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Ores and concentrates	117 715	33 867	7 084	10 572	9 124
Metal	3 099	2 904	3 007	2 346	1 663

Note(s)

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

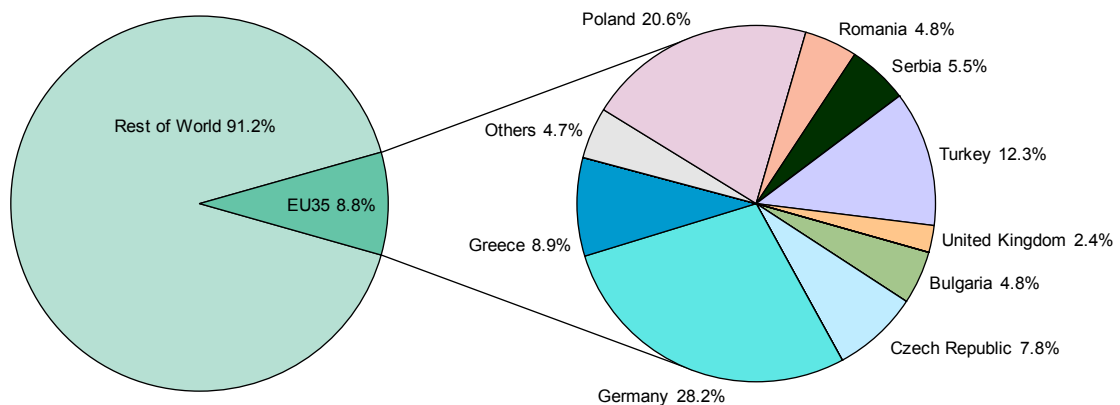
(a) BGS estimates, based on known exports from certain countries

Chromium ores and concentrates - EU35 trade in 2012**Chromium metal - EU35 trade in 2012**

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 2012, with 46 per cent of the total world output. The second largest was USA (12 per cent), followed by India (eight per cent), Australia (six per cent) and Indonesia (five per cent).

EU35 Production of coal (all forms) 2012



Production of coal

tonnes

Country	2008	2009	2010	2011	2012
Bulgaria					
Lignite	26 007 800	25 014 800	27 148 300	34 496 200	31 040 700
Brown coal	2 643 200	2 243 800	2 321 200	2 743 500	* 2 700 000
Czech Republic					
Bituminous	12 197 000	10 621 000	11 193 000	10 967 000	10 796 000
Lignite	416 000	262 000	—	—	—
Brown coal	47 456 000	45 354 000	43 931 000	46 848 000	43 710 000
Germany					
Anthracite and bituminous	19 143 000	14 971 000	14 110 000	12 960 000	11 560 000
Brown coal	175 313 020	169 857 142	169 402 544	176 502 048	185 432 000
Greece					
Lignite	64 521 000	61 800 000	53 600 000	58 400 000	62 368 000
Hungary					
Lignite	8 041 168	8 026 587	8 202 859	8 800 783	8 438 000
Brown coal	1 386 140	944 139	813 403	699 129	875 944
Macedonia					
Lignite	7 669 103	7 395 915	6 583 074	7 902 084	7 309 546
Montenegro					
Lignite	1 740 076	957 164	1 937 847	1 972 671	1 706 302
Norway					
Bituminous (a)	3 429 000	2 437 000	1 685 000	1 640 000	1 583 000
Poland					
Bituminous	84 345 443	78 064 462	76 727 802	76 447 604	79 854 904
Lignite	59 668 166	57 108 304	56 510 125	62 841 269	64 279 772
Romania					
Anthracite and bituminous	—	—	—	2 121 574	1 876 062
Lignite	34 529 000	28 460 152	28 774 244	33 779 130	31 529 377
Brown coal	205 000	63 458	62 448	46 071	17 700

Production continued

tonnes

Country	2008	2009	2010	2011	2012
Serbia					
Bituminous	66 000	69 000	108 000	134 000	141 000
Lignite (b)	(c) 31 332 000	38 070 579	37 562 840	40 467 132	37 707 017
Brown coal	...	209 660	193 492	349 861	316 507
Slovakia					
Lignite	87 000	155 000	176 000	124 000	136 000
Brown coal	2 075 000	2 221 000	2 026 000	1 989 000	1 964 000
Slovenia					
Lignite	4 008 440	3 921 746	4 010 930	4 066 278	3 967 064
Brown coal	488 828	510 769	419 466	435 800	354 262
Spain					
Anthracite	3 152 550	4 306 033	3 212 603	2 489 797	2 259 236
Bituminous	4 085 652	2 898 340	2 776 918	1 774 992	1 651 496
Sub-bituminous	2 890 230	2 493 577	2 428 877	2 358 930	2 275 409
Turkey					
Anthracite	3 343 409	3 773 603	6 312 137	5 619 316	* 5 600 000
Bituminous	* 1 000 000	* 1 000 000	* 1 000 000	3 542 223	* 3 550 000
Lignite	86 074 626	82 263 104	86 943 392	79 968 510	* 80 000 000
United Kingdom					
Bituminous (d)	18 053 000	17 874 000	18 417 000	18 627 000	17 047 000
EU35 Total	705 400 000	673 300 000	668 600 000	701 100 000	702 000 000

Note(s)

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

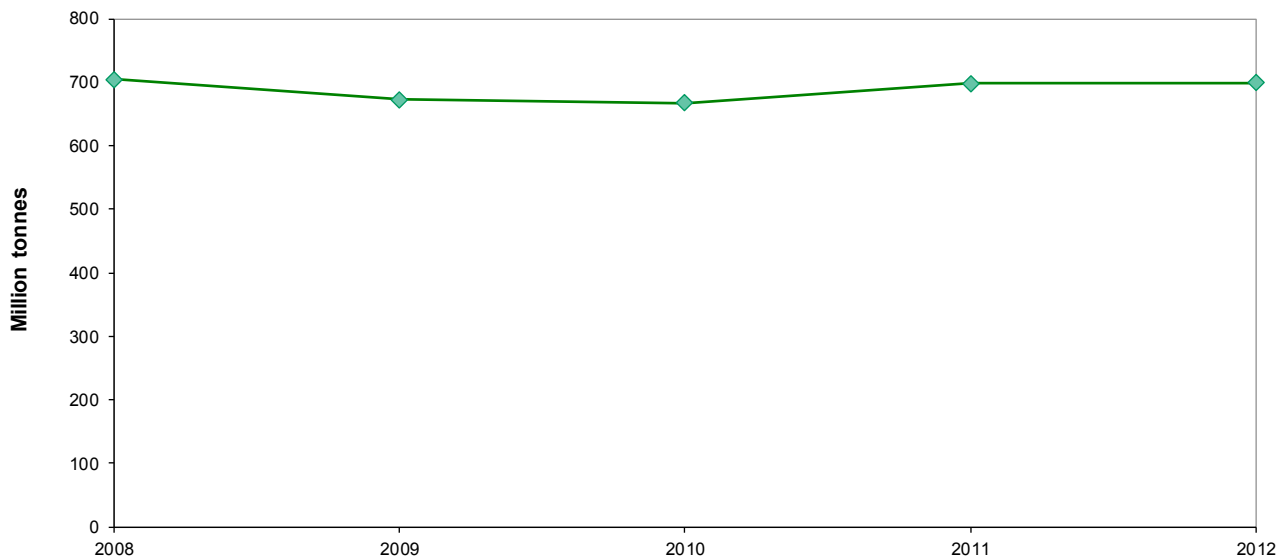
(a) Spitzbergen: not including production from mines controlled by Russia

(b) Excluding production in Kosovo

(c) Including brown coal

(d) Including anthracite

EU35 Production of coal (all forms) 2008 - 12



Coal

Exports of coal

tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Anthracite	1 400 377	675 097	1 652 015	1 915 992	1 668 940
Other coal	4 416 217	4 640 602	4 211 655	2 560 811	3 566 699
Lignite	10 581	7 267	18 781	42 164	51 514
Briquettes	11 331	11 452	18 899	40 374	41 363
Bulgaria					
Hard coal (a)	36 095	11 511	76 508	126 229	133 470
Lignite	53	5 862	9 525	2 744	635
Czech Republic					
Anthracite	6 393	2 783	1 126	3 463	3 583
Other coal	5 987 431	6 025 794	6 443 306	6 253 274	5 368 575
Lignite	1 561 097	1 207 715	1 019 645	1 071 038	12 779 156
Briquettes	75 459	93 479	90 864	103 816	54 148
Denmark					
Hard coal	27 070	(a) 1 973 198	(b)* 10 000	464 851	(a) 10 585
Estonia					
Hard coal	(b)* 13 000	(a) 20 296	(a) 16 452	(a) 2 312	741
France					
Anthracite	57 436	5 272	9 551	4 760	11 423
Other coal	128 614	91 266	121 733	113 718	168 068
Briquettes	1 380	6 045	4 495	2 390	109
Germany					
Anthracite	16 575	179 880	222 458	165 471	166 704
Other coal	518 629	129 955	31 492	39 712	109 026
Lignite	425 680	523 720	696 279	789 315	1 134 350
Briquettes	370 211	493 552	463 102	467 383	450 270
Greece					
Anthracite	3 223	3 274	2 073	2 175	1 424
Other coal	5 203	1 525	1 499	6 478	8 849
Lignite	—	—	—	10 242	18 262
Briquettes	25	—	113	—	8 502
Hungary					
Anthracite	402	...	9 151	5 077	210
Lignite	89 444	41 329	3 390	4 886	4 539
Ireland, Republic of					
Hard coal	6 158	(a) 3 863	5 820	(a) 2 857	18 914
Briquettes	6 508	9 858	12 695	11 333	12 115
Italy					
Anthracite	13 456	15 474	12 817	17 611	12 841
Other coal	18 563	14 733	1 485	571	53 107
Briquettes	492	514	3 923	213	798
Latvia					
Hard coal (a)	3 140	170	3 136	26 100	13 823
Briquettes	79	74	3 262	6 402	4 007
Lithuania					
Hard coal (a)	7 685	10 915	33 109	28 271	5 762
Montenegro					
Lignite	40 449	58 381	69 130	48 940	47 778
Netherlands					
Anthracite	109 516	78 064	41 054	303 741	153 370
Other coal	6 399 941	5 154 853	7 580 839	8 239 446	1 281 730
Briquettes	15	16 347	144 797	294 637	148 931
Poland					
Anthracite	16 173	5 282	41 908	43 370	37 906
Other coal	7 775 799	8 368 190	10 323 041	676 364	5 257 817
Lignite	1 009	68 273	116 682	145 063	133 531
Briquettes	71	363	2 114	15 992	1 676
Portugal					
Anthracite	9 382	4 409	7 136	7 405	11 385
Romania					
Hard coal	(a) 5 331	(a) 19 771	(a) 73 002	35 712	19 701
Serbia					
Anthracite	3 102	3 784	4 434	2 507	160
Other coal	4 068	14 530	3 801	1 116	441
Lignite	217 029	120 553	112 009	32 337	28 266
Briquettes	5 333	630	8 724	573	53

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Slovakia					
Anthracite	5 515	2 927	725	6 198	9 373
Other coal	366 200	105 417	5 128	2 552	10
Lignite	59 568	7 477	55	908	53
Briquettes	...	609	108	65	6 486
Slovenia					
Lignite	377	4 615	...	—	19
Spain					
Anthracite	186 293	123 114	337 930	337 833	240 630
Other coal	1 636 071	1 252 923	1 149 991	851 716	162 047
Briquettes	21 735	193	599	250	76
Turkey					
Anthracite	1 043	194	717	5 210	5 700
Other coal	55 510	1 715	37 319	802	1 534
Lignite	13 980	6 253	4 554	43 942	48 706
United Kingdom					
Anthracite	165 473	119 472	89 701	97 014	119 826
Other coal	742 582	391 414	615 067	502 581	417 654
Briquettes	52 605	68 226	89 125	117 025	150 783

Note(s)

(1) This table excludes bunker shipments

(a) Including anthracite

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

Imports of coal

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Anthracite	4 388	3 454	3 774	5 760	5 932
Other coal	4 114 518	4 079 423	3 614 354	3 359 294	3 339 262
Lignite	46 392	72 734	68 777	74 609	75 705
Briquettes	26 474	30 538	34 999	35 695	26 598
Belgium					
Anthracite	3 964 878	1 436 499	2 660 267	3 382 132	2 377 808
Other coal	10 171 283	5 807 413	6 851 382	5 887 514	7 104 464
Lignite	365 152	256 167	362 257	411 424	425 918
Briquettes	20 943	31 346	27 379	53 793	40 447
Bulgaria					
Anthracite	2 841 458	1 938 000	1 858 397	2 203 775	1 132 609
Other coal	2 054 649	1 130 146	1 081 783	1 032 074	1 080 540
Briquettes	66 676	10 238	46 754	19	47
Croatia					
Hard coal (a)	1 189 379	712 873	1 112 822	1 092 794	875 116
Lignite	58 417	47 504	85 413	85 316	44 423
Briquettes	2 796	1 730	1 823	2 302	2 175
Cyprus					
Hard coal (a)	46 258	28 911	7 714	129	164
Czech Republic					
Anthracite	39 211	24 054	24 471	95 762	121 247
Other coal	2 181 691	1 761 947	2 016 443	2 286 190	1 833 669
Lignite	33 579	36 617	49 426	91 889	350 322
Briquettes	18 654	60 962	137 933	157 513	156 682
Denmark					
Anthracite	45 282	12 593	(c)* 21 000	(c)* 6 000	(c)* 6 000
Other coal	7 412 557	6 423 923	3 670 544	(c)* 7 104 000	(c)* 3 799 000
Briquettes	1 000	455	7 554	14 768	4 106
Estonia					
Hard coal (a)	123 194	30 413	77 300	89 422	81 082
Finland					
Hard coal (a)	5 671 385	5 937 153	5 919 757	6 972 540	3 954 916

Coal

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
France					
Anthracite	2 817 048	1 914 614	2 291 609	1 304 643	1 527 937
Other coal	18 470 782	13 893 343	16 688 152	14 073 053	16 249 645
Lignite	68 426	51 577	52 076	82 504	75 621
Briquettes	154 140	151 863	129 465	102 257	164 158
Germany					
Anthracite	4 137 690	3 893 429	3 643 048	2 535 881	1 399 126
Other coal	37 215 220	30 926 568	34 850 251	40 187 648	41 993 809
Lignite	39 248	37 839	24 400	41 768	21 509
Briquettes	70 400	132 895	404 681	291 675	138 019
Greece					
Anthracite	41 475	37 585	48 783	117 406	21 961
Other coal	371 479	168 663	512 663	169 990	117 867
Lignite	35 457	58 053	87 707	165 417	206 384
Briquettes	111	5 827	62	12 986	53 028
Hungary					
Hard coal	1 893 076	(a) 1 340 769	(a) 1 744 778	(a) 1 570 645	(a) 1 556 689
Lignite	767 480	413 094	297 335	318 792	224 685
Briquettes	16 093	17 519	14 352	11 018	21 885
Iceland					
Anthracite	91 576	104 094	101 220	103 822	103 989
Other coal	6 609	9 903	3 521	6 701	4
Ireland, Republic of					
Anthracite	47 392	53 413	77 112	33 665	30 564
Other coal	2 169 185	1 721 651	1 601 294	2 149 095	2 028 332
Lignite	153	415	242	60	34 846
Briquettes	19 049	40 482	31 507	30 673	46 258
Italy					
Anthracite	490 757	210 384	408 391	394 026	266 462
Other coal	25 745 375	20 165 036	21 820 370	23 656 907	25 609 289
Briquettes	5 392	7 786	6 233	3 857	1 905
Latvia					
Anthracite	12 145	78	1 273	12 649	5 111
Other coal	157 066	136 199	180 075	185 516	152 423
Lithuania					
Anthracite	3 049	15 755	3 616	24 260	62 934
Other coal	379 646	199 684	313 355	368 099	256 651
Luxembourg					
Anthracite	34 471	16 525	24 834	16 256	10 994
Other coal	81 616	83 454	76 133	73 322	69 623
Lignite	7 119	7 093	7 090	7 710	8 620
Macedonia					
Hard coal (a)	214 078	85 660	160 162	189 549	233 556
Lignite	...	340	23 409	42 052	27 024
Briquettes	56 640	9 207	7 623	22 546	18 209
Montenegro					
Lignite	12 792	6 734	—	62	39
Briquettes	15 410	3 448	(c) 0	3	14
Netherlands					
Anthracite	79 784	8 005	44 958	225 184	257 485
Other coal	17 843 689	14 084 993	18 783 491	18 008 920	21 017 984
Lignite	5 265	29 239	21 933	15 824	22 991
Briquettes	53 432	53 030	132 281	429 514	1 398 836
Norway					
Anthracite (b)	81 955	54 199	78 387	79 140	78 412
Other coal (b)(c)	* 538 000	* 367 000	* 517 000	* 230 000	* 468 000
Briquettes	24 406	1 074	1 160	733	792
Poland					
Anthracite	553 152	310 290	583 158	582 605	407 120
Other coal	9 531 959	10 362 090	13 127 065	14 090 331	9 652 129
Lignite	18 057	30 307	35 973	67 550	134 135
Briquettes	10 960	25 788	60 548	60 758	53 873
Portugal					
Anthracite	48 793	28 472	21 454	30 860	42 657
Other coal	3 721 513	4 922 698	2 648 704	3 592 502	4 999 817

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Romania					
Anthracite	110 484	56 296	72 776	148 260	137 388
Other coal	3 008 391	937 077	936 727	840 669	1 142 615
Lignite	121 227	62 469	718	1 706	3 492
Briquettes	148 890	102 372	96 428	197	197
Serbia					
Anthracite	10 500	10 752	18 056	16 456	13 988
Other coal	326 808	89 731	156 846	183 713	178 984
Lignite	249 563	276 033	307 250	615 026	716 035
Briquettes	6 071	2 181	11 130	8 975	18 239
Slovakia					
Anthracite	258 597	264 286	293 054	713 105	635 877
Other coal	4 253 530	3 828 520	3 078 570	3 110 255	32 401 325
Lignite	983 151	693 786	563 021	534 118	624 731
Briquettes	6 733	7 877	12 799	14 836	16 545
Slovenia					
Anthracite	8 364	3 997	7 898	15 300	8 745
Other coal	66 144	29 146	18 975	15 329	14 920
Lignite	833 308	507 013	544 523	515 659	599 679
Spain					
Anthracite	957 293	767 027	846 015	852 813	594 330
Other coal	20 010 533	15 967 793	10 983 379	15 315 861	21 819 298
Sweden					
Anthracite	36 163	20 373	48 767	38 136	34 827
Other coal	2 811 668	1 831 397	3 236 437	2 971 646	2 218 768
Briquettes	9 029	33	43	52	39
Switzerland					
Anthracite	18 721	5 444	7 164	7 144	12 121
Other coal	132 824	172 990	124 096	92 473	129 051
Lignite	80 814	66 483	62 756	69 378	48 704
Briquettes	3 986	4 933	3 328	2 887	3 750
Turkey					
Anthracite	707 425	457 575	972 425	990 996	854 104
Other coal	18 781 879	19 501 679	21 048 121	22 721 500	28 405 516
Lignite	...	...	5 339	—	75
United Kingdom					
Anthracite	213 318	207 327	187 246	193 474	29 186
Other coal	43 038 043	36 553 574	23 227 529	31 627 894	42 069 614
Briquettes	14 131	9 021	11 169	21 142	15 004

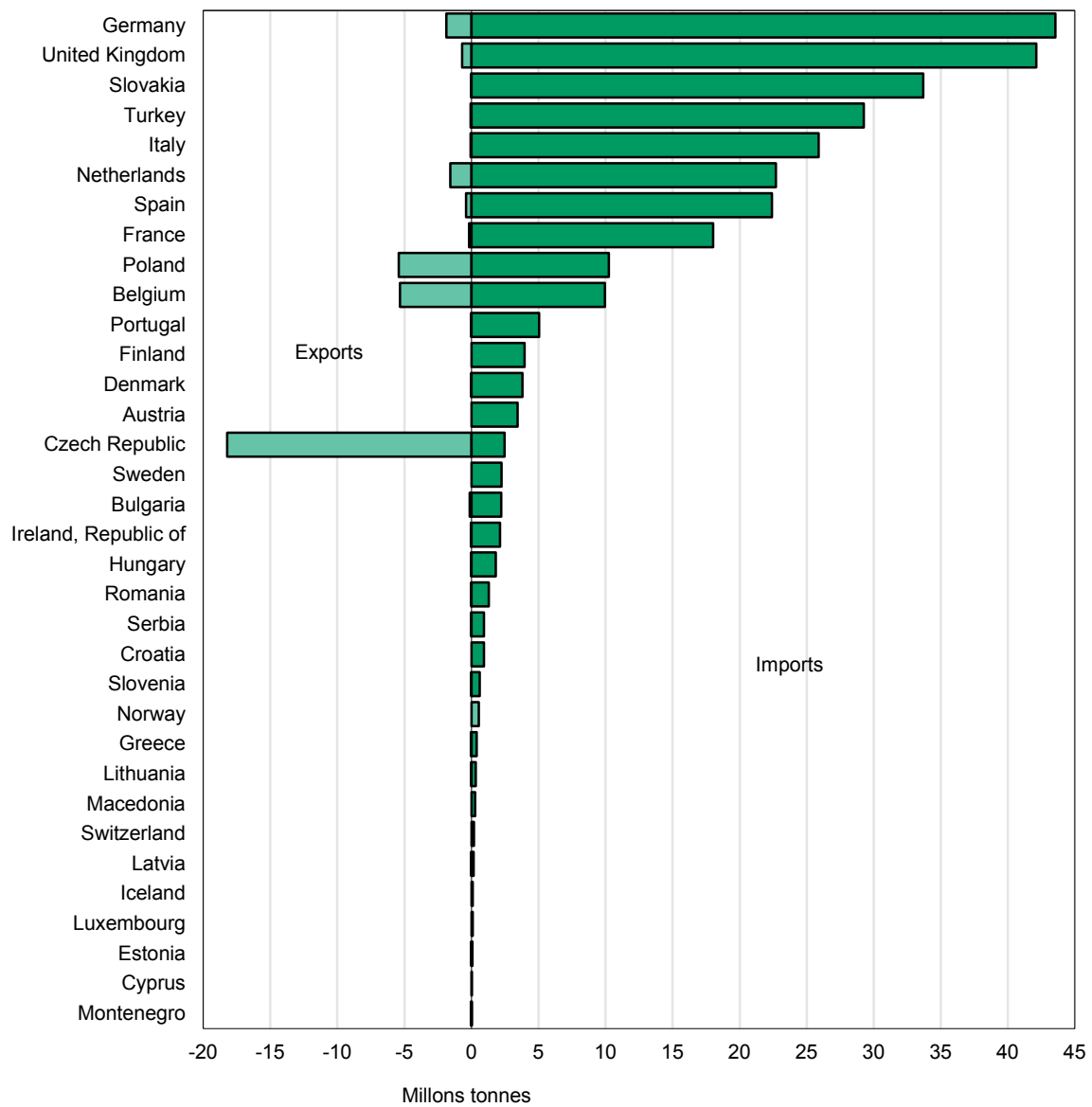
Note(s)

(a) Including anthracite

(b) Excludes coal imported from Spitzbergen

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

Coal - EU35 trade in 2012



Cobalt

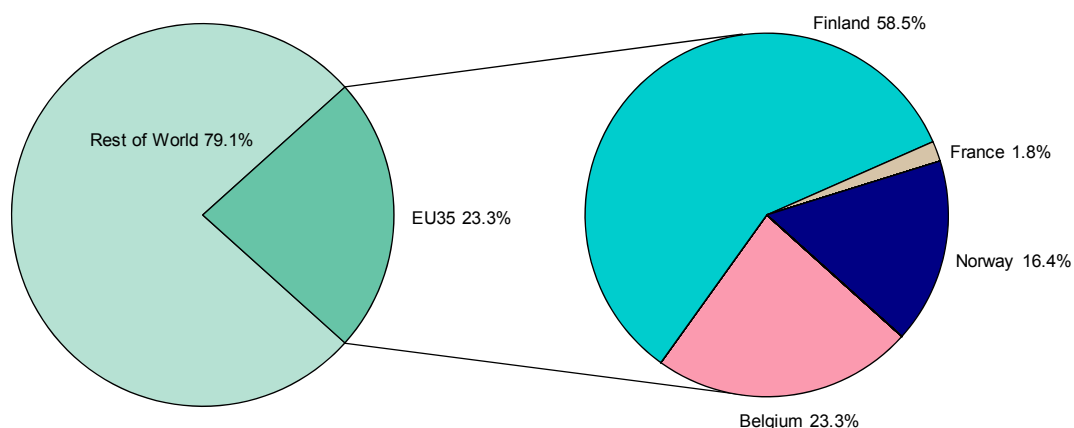
- Cobalt is a lustrous, greyish-silver, brittle metal. It is also very hard and can take a high polish. It retains its strength at high temperatures and is ferromagnetic, which means it is capable of being magnetised. Cobalt is extensively used as an alloying metal and is valued for its ability to produce 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 2012, with 68 per cent of the total world output. The second largest was China (five per cent), followed by Zambia and Australia (with four per cent each). China was the world's largest producer of cobalt metal in 2012, with 38 per cent of the total world output. The second largest was Finland (14 per cent), followed by Canada (eight per cent), Zambia (seven per cent) and Australia (six per cent).

Mine production of cobalt

tonnes (metal content)

Country	2008	2009	2010	2011	2012
Finland	* 100	* 27	* 140	480	* 1 381

EU35 Production of cobalt metal 2012



Production of cobalt metal

tonnes

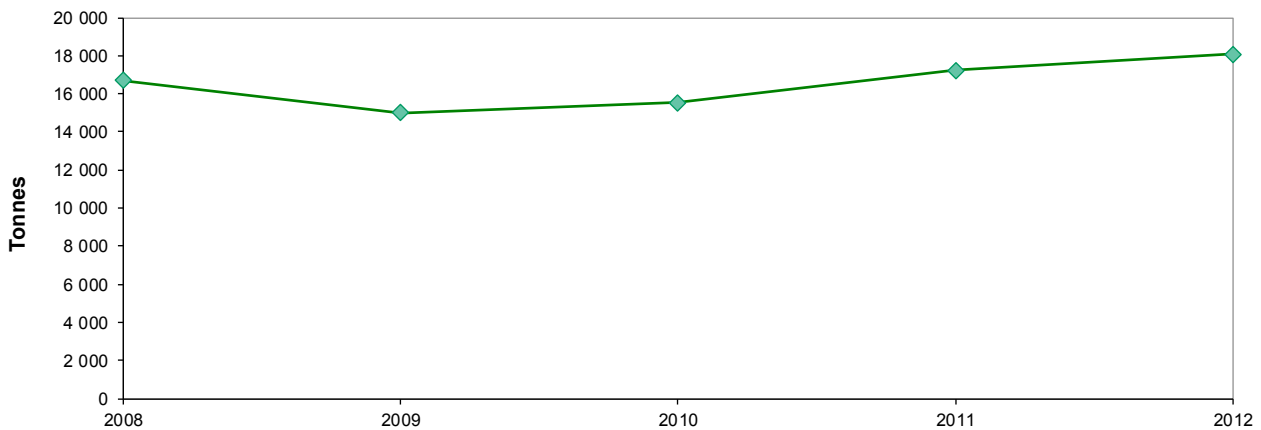
Country	2008	2009	2010	2011	2012
Belgium (a)	3 020	2 150	2 600	3 187	4 200
Finland	9 645	8 970	9 429	10 627	10 562
France	311	368	302	354	326
Norway	3 719	3 510	3 208	3 067	2 969
EU35 Total	16 700	15 000	15 500	17 200	18 100

Note(s)

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

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

EU35 Production of cobalt metal 2008 - 12



Exports of cobalt

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metal	31	60	72	60	111
Belgium					
Ore	1 112	1 227	633	2 431	362
Metal (a)	* 7 000	* 4 700	* 4 400	* 2 400	* 2 300
Finland					
Oxides (a)	* 2 600	* 3 100	* 5 400	* 6 400	* 4 300
Metal (a)	* 5 700	* 4 500	* 3 900	* 4 200	* 6 000
France					
Oxides	28	50	3	3	4
Metal	859	706	785	1 086	1 100
Germany					
Ore	145	103	88	—	8
Oxides	158	69	102	113	84
Metal	1 588	1 067	1 481	1 393	1 533
Ireland, Republic of					
Ore	144	84	184	68	177
Metal	47	145	234	125	234
Italy					
Oxides	235	141	206	224	188
Metal	220	205	187	230	177
Luxembourg					
Metal	7	3	1	305	1
Netherlands					
Oxides	959	65	144	67	132
Metal	1 090	353	1 733	2 062	1 934
Norway					
Metal	3 731	3 550	3 325	3 064	3 059
Poland					
Oxides	24	64	8	3	2
Slovenia					
Metal	24	50	65	33	71
Spain					
Metal	8	17	4	25	72
Sweden					
Metal	67	285	220	99	200
Switzerland					
Metal	120	70	80	97	113
United Kingdom					
Oxides	798	891	1 267	820	1 179
Metal	2 614	2 572	1 780	1 739	1 865

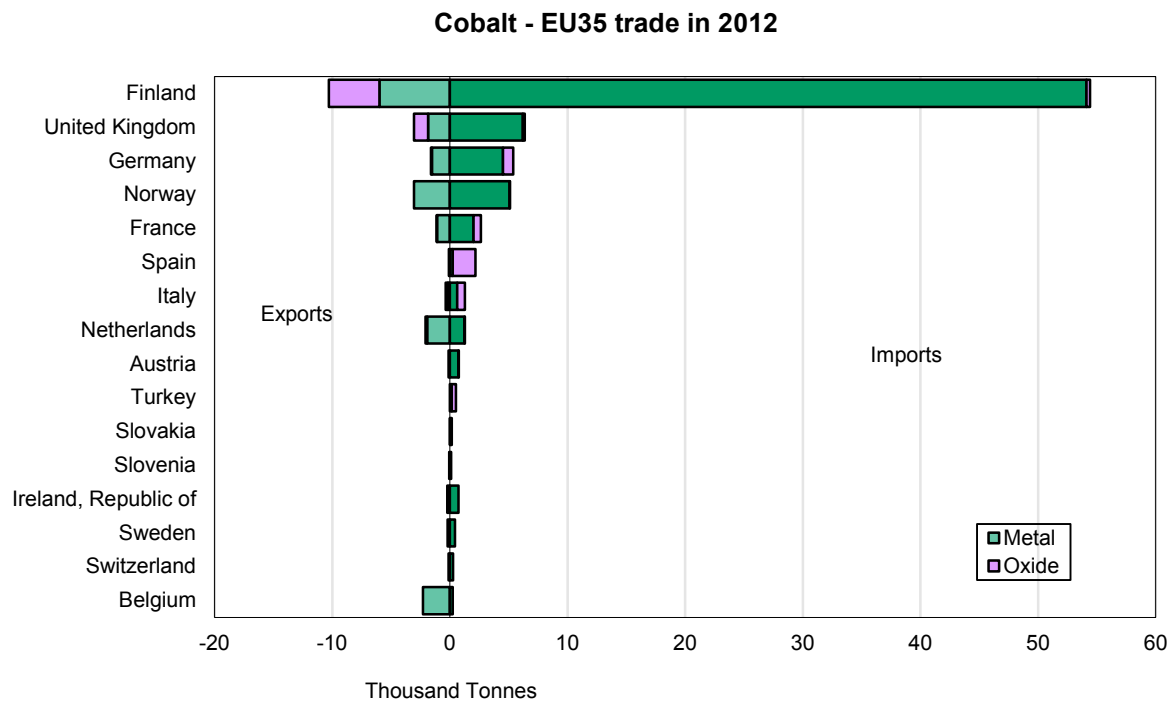
Note(s)

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

Imports of cobalt

tonnes

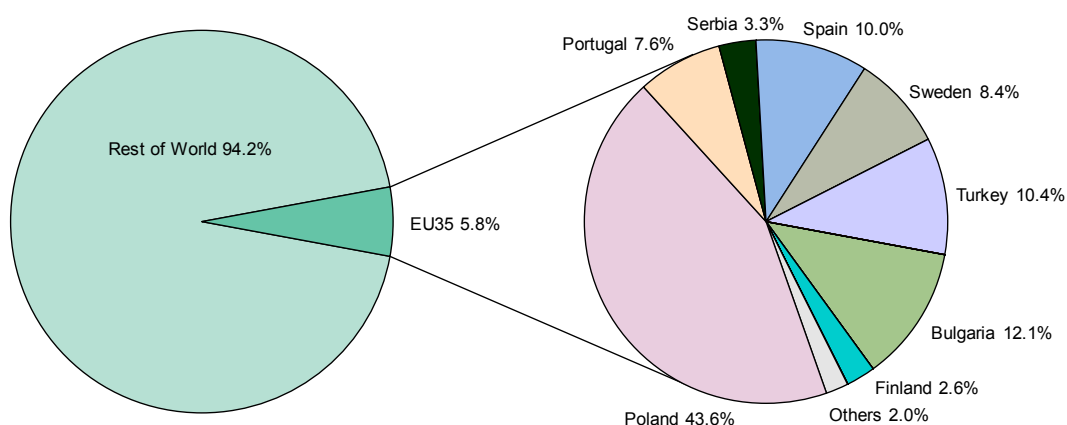
Country	2008	2009	2010	2011	2012
Austria					
Metal	740	331	653	718	730
Oxides	40	5	10	9	8
Belgium					
Ore	185	272	156	379	349
Metal	255	249	222	368	246
Czech Republic					
Metal	199	220	60	60	73
Denmark					
Oxides	8	15	19	42	16
Finland					
Ore	26 500	15 146	9 867	8 994	7 477
Metal	36 405	24 002	30 623	53 059	54 106
Oxides	167	46	233	172	298
France					
Metal	2 251	1 203	1 681	2 338	2 013
Oxides	574	578	635	841	611
Germany					
Ore	15	42	115	170	128
Metal	2 921	2 017	3 864	4 946	4 505
Oxides	1 057	902	1 069	900	878
Greece					
Metal	123	14	3	17	64
Ireland, Republic of					
Metal	622	777	756	601	743
Italy					
Metal	703	632	477	758	609
Oxides	561	473	707	719	679
Luxembourg					
Metal	243	11	163	811	80
Netherlands					
Metal	1 124	* 491	962	1 023	1 249
Oxides	244	54	118	596	16
Norway					
Metal	3 131	3 012	2 132	684	5 090
Oxides	—	155	0	0	3
Poland					
Metal	51	53	52	47	52
Oxides	30	15	18	114	17
Romania					
Oxides	6	37	41	79	27
Slovakia					
Metal	1 020	19	7	7	18
Oxides	0	5 327	137	97	147
Slovenia					
Metal	93	149	141	110	92
Spain					
Metal	131	135	144	159	233
Oxides	1 038	1 035	1 543	1 837	1 941
Sweden					
Metal	698	189	396	571	443
Switzerland					
Metal	386	243	318	298	260
Turkey					
Metal	148	125	145	171	159
Oxides	152	150	199	277	364
United Kingdom					
Ore	72	200	143	124	125
Metal	5 395	3 928	5 963	6 093	6 197
Oxides	138	168	198	256	164



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 2012, with 32 per cent of the total world output. The second largest was China (ten per cent), followed by Peru (eight per cent), USA (seven per cent) and Australia (five per cent).
- China was the world's largest producer of refined copper in 2012, with 29 per cent of the total world output. The second largest was Chile (14 per cent), followed by Japan (seven per cent), USA (five per cent) and Russia (four per cent).

EU35 Mine production of copper 2012



Mine production of copper

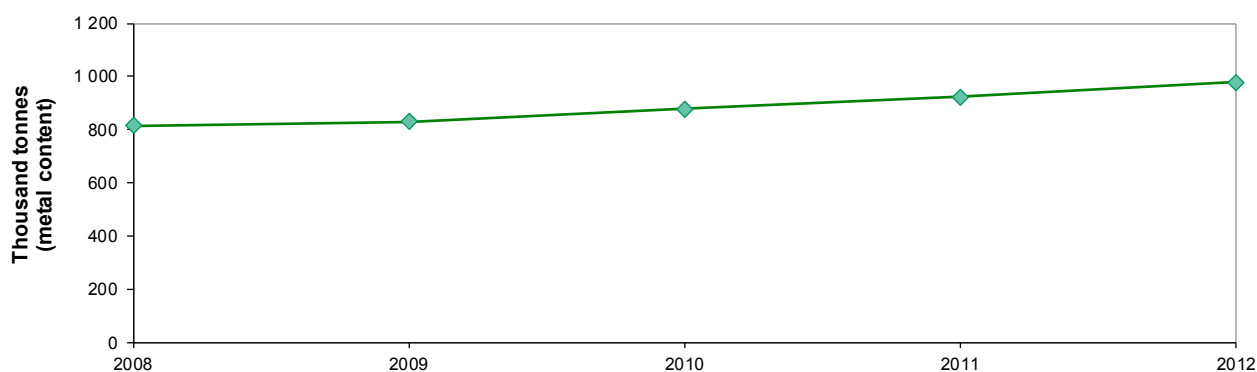
tonnes (metal content)

Country	2008	2009	2010	2011	2012
Bulgaria (a)	107 195	110 652	112 904	114 603	118 255
Cyprus	2 986	2 380	2 595	3 660	4 328
Finland	13 300	14 600	14 700	14 000	25 446
Macedonia	8 051	7 440	7 912	7 555	9 506
Poland	429 687	439 365	425 725	426 665	427 064
Portugal	89 026	86 462	74 011	79 686	74 043
Romania	308	3 129	5 127	6 355	5 902
Serbia	17 600	19 400	22 500	25 800	32 205
Spain	7 071	17 663	54 335	68 511	97 636
Sweden	57 688	55 414	76 514	82 967	82 422
Turkey	82 400	72 400	79 900	92 500	101 700
EU35 Total	815 000	829 000	876 000	922 000	979 000

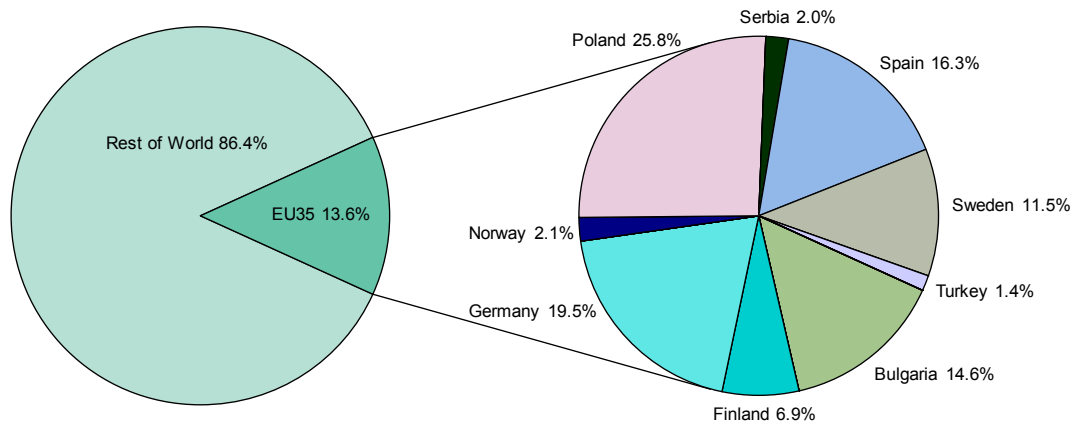
Note(s)

(a) Metal content of ore

EU35 Mine production of copper 2008 - 12



EU35 Smelter production of copper 2012



Smelter production of copper

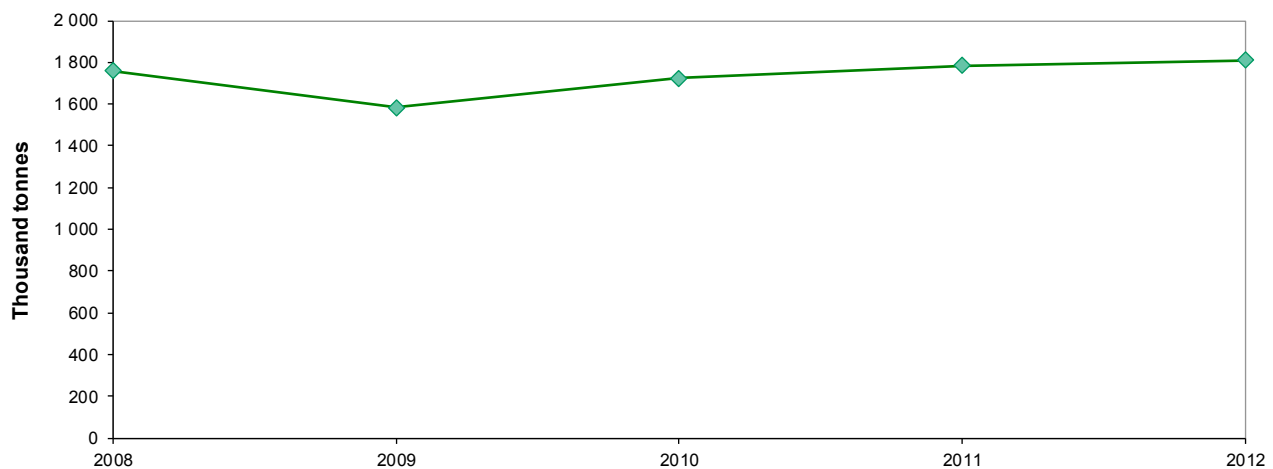
tonnes

Country	2008	2009	2010	2011	2012
Bulgaria	257 100	256 200	265 000	285 000	264 200
Finland	142 154	110 479	112 687	116 455	124 527
Germany	295 000	251 000	378 700	346 200	352 400
Norway	37 000	33 900	36 200	36 000	38 000
Poland	492 942	457 510	469 656	481 875	466 715
Serbia	31 900	27 000	20 000	28 200	36 800
Spain	259 897	264 971	259 119	260 730	295 200
Sweden	203 700	183 400	181 500	206 100	207 300
Turkey	38 000	—	—	* 25 000	* 25 000
EU35 Total	1 758 000	1 584 000	1 723 000	1 786 000	1 810 000

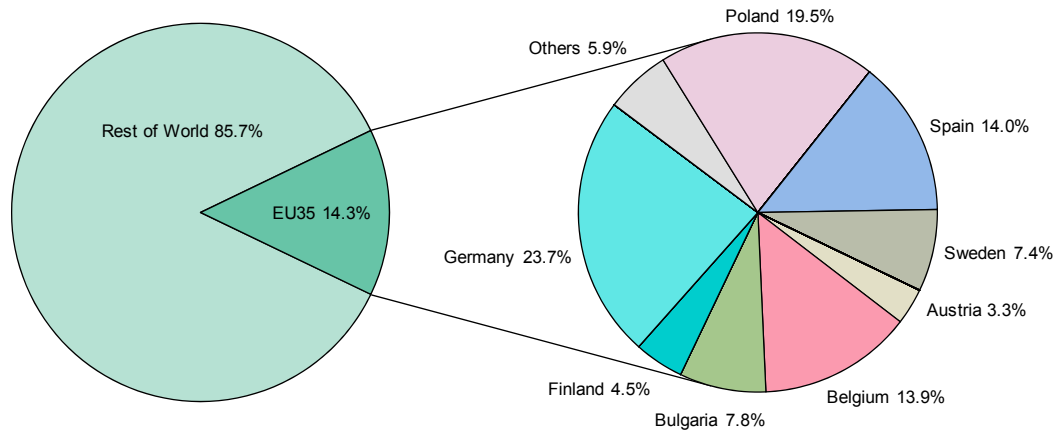
Note(s)

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

EU35 Smelter production of copper 2008 - 12



EU35 Production of refined copper 2012



Production of refined copper

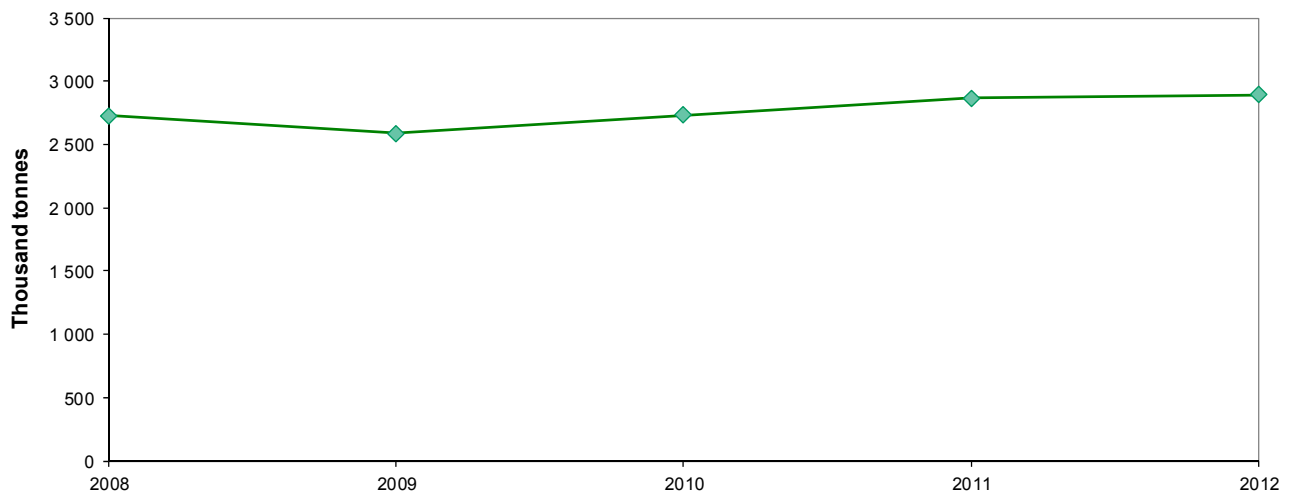
tonnes

Country	2008	2009	2010	2011	2012
Austria	106 700	96 200	113 700	112 500	95 000
Belgium	395 800	373 600	389 000	393 600	401 600
Bulgaria	126 700	196 900	216 000	226 100	226 000
Cyprus	2 986	2 380	2 595	3 660	4 328
Finland	131 249	105 411	112 687	124 360	129 256
Germany	689 763	668 945	704 300	708 800	685 700
Italy	24 200	6 500	1 800	7 600	7 700
Norway	37 000	33 900	36 200	36 000	38 000
Poland	526 808	502 462	547 074	571 041	565 834
Romania	15 300	4 600	—	—	—
Serbia	33 800	27 400	22 200	25 300	34 700
Spain	319 050	329 356	347 518	353 790	406 600
Sweden	227 774	205 759	190 497	219 316	214 050
Turkey	88 000	33 500	47 300	85 000	86 300
EU35 Total	2 725 000	2 587 000	2 731 000	2 867 000	2 895 000

Note(s)

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

EU35 Production of refined copper 2008 - 12



Exports of copper

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Matte and cement	719	3 109	960	0	—
Unwrought, unrefined	75	217	7 636	7 780	1 049
Unwrought, refined	114 903	115 480	135 132	128 551	124 897
Unwrought alloys	938	1 058	804	690	528
Scrap	35 582	50 748	52 702	55 454	60 033
Belgium					
Ores and concentrates	2 155	4 594	4 549	2 046	3 242
Matte and cement	4 139	2 432	6 935	9 042	10 231
Unwrought, unrefined	10 533	11 570	42 836	40 660	27 586
Unwrought, refined	257 907	248 500	189 253	187 595	242 533
Unwrought alloys	10 954	9 253	12 116	11 763	12 436
Scrap	162 090	110 355	141 380	165 713	168 705
Bulgaria					
Ores and concentrates	105 889	134 910	86 171	131 874	204 416
Matte and cement	3 559	4 749	5 048	5 827	4 565
Unwrought, unrefined	146 271	73 379	7 926	10 844	70 347
Unwrought, refined	105 747	153 025	206 309	353 450	202 885
Scrap	10 547	10 717	18 226	12 982	12 318
Croatia					
Scrap	10 884	10 202	13 329	12 597	14 016
Cyprus					
Unwrought	2 986	2 449	2 550	3 660	4 328
Scrap	2 381	3 400	4 619	4 086	5 435
Czech Republic					
Unwrought	3 597	10 653	11 041	10 703	20 225
Unwrought alloys	4 278	3 992	3 515	2 884	1 238
Scrap	63 825	105 230	123 688	85 202	74 592
Denmark					
Scrap	33 421	31 711	30 006	33 289	27 276
Estonia					
Unwrought	131	520	1 790	744	2 386
Scrap	8 185	5 633	6 915	5 171	5 549
Finland					
Matte and cement	...	...	...	19 610	18 588
Unwrought, unrefined	27 525	37 084	35 132	24 908	29 714
Unwrought, refined	68 331	41 139	57 969	41 603	59 950
Scrap	32 585	32 762	32 819	33 714	32 739
France					
Unwrought, unrefined	512	1 002	7 356	9 545	2 430
Unwrought, refined	54 893	59 426	23 258	35 309	39 858
Unwrought alloys	13 049	9 455	12 786	10 624	11 182
Scrap	266 930	235 277	292 631	305 883	317 556
Germany					
Ores and concentrates	48 234	58 932	48 761	54 856	57 074
Matte and cement	2	1	8 431	9	2
Unwrought	125 162	194 104	136 110	196 627	278 957
Unwrought alloys	16 485	9 781	13 276	12 276	14 578
Scrap	478 643	449 990	578 448	585 346	587 935
Greece					
Unwrought, refined	356	2 748	825	4 456	981
Unwrought alloys	1 198	1 071	2 097	4 346	969
Scrap	12 314	15 742	21 994	18 672	28 705
Hungary					
Unwrought, refined	...	...	24	786	5 867
Unwrought alloys	989	314	571	1 120	476
Scrap	20 958	19 120	15 319	31 459	37 048
Ireland, Republic of					
Scrap	21 421	23 305	13 172	10 168	10 046
Italy					
Unwrought, unrefined	6 426	2 752	7 290	8 502	7 811
Unwrought, refined	6 955	13 186	8 648	13 506	21 312
Unwrought alloys	15 268	12 787	15 553	20 024	21 264
Scrap	148 923	158 062	167 424	174 068	181 600

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Latvia					
Unwrought	4 117	2 518	726	1 650	5 471
Scrap	6 900	6 138	7 106	13 679	8 494
Lithuania					
Unwrought	135	610	591	4 873	1 481
Scrap	4 675	3 375	4 128	5 724	7 582
Luxembourg					
Scrap	2 412	1 787	2 492	2 449	2 449
Macedonia					
Ores and concentrates (a)	* 41 000	* 39 000	* 41 000	* 39 000	* 45 000
Unwrought	—	14	8	8	1 090
Scrap	2 302	2 029	576	2 845	2 221
Malta					
Scrap	1 890	1 828	919	1 096	1 287
Montenegro					
Scrap	1 356	1 029	1 769	2 356	1 650
Netherlands					
Unwrought	27 105	29 260	20 175	34 435	59 260
Unwrought alloys	6 693	2 413	2 379	3 057	2 389
Scrap	241 332	143 329	283 847	315 437	328 463
Norway					
Unwrought	37 499	33 497	35 975	36 549	38 146
Scrap	22 561	25 339	37 829	45 889	55 842
Poland					
Matte and cement	2 989	1 515	956	1 567	1 306
Unwrought	296 738	325 395	332 989	327 585	333 648
Unwrought alloys	5 469	2 358	1 180	1 260	2 571
Scrap	63 779	64 606	68 686	60 544	49 128
Portugal					
Ores and concentrates	375 755	371 881	305 485	327 096	312 192
Unwrought	600	2 098	1 887	9 969	8 425
Scrap	22 184	20 213	24 491	36 151	41 285
Romania					
Ores and concentrates	33 391	6 711	31 582	39 704	41 879
Matte and cement	8 494	4 502	956	186	379
Unwrought	153	601	797	308	1 603
Scrap	39 733	42 148	49 248	54 536	51 844
Serbia					
Ores and concentrates	3 448	1 452	1 666	2 234	4 276
Matte and cement	41	1 928	2 501	1 649	358
Unwrought	4 421	4 328	10 921	9 544	15 612
Scrap	7 637	7 920	12 286	9 991	10 496
Slovakia					
Unwrought, unrefined	28 392	26 251	7 431	11 508	40 404
Unwrought, refined	6 749	3 721	27 576	32 017	3 376
Scrap	21 144	15 114	15 550	19 522	23 250
Slovenia					
Unwrought	244	1 376	7 042	5 847	1 094
Unwrought alloys	...	...	...	...	533
Scrap	15 606	17 991	29 276	22 126	33 239
Spain					
Ores and concentrates	463	110 724	221 429	583 874	529 494
Matte and cement	...	—	...	17 649	9 409
Unwrought, unrefined	41 676	38 761	33 973	37 314	43 168
Unwrought, refined	85 899	108 716	151 204	86 800	145 142
Unwrought alloys	12 139	12 150	15 881	15 809	17 571
Scrap	83 820	100 498	102 236	87 122	159 419
Sweden					
Ores and concentrates	49	—	24	8 010	4 266
Unwrought	70 047	77 745	71 394	92 971	105 338
Unwrought alloys	5 610	3 181	8 563	5 615	3 585
Scrap	57 245	55 603	43 311	58 031	58 829
Switzerland					
Unwrought	1 159	623	832	1 030	935
Scrap	82 687	71 204	75 973	84 373	86 964

Copper

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Turkey					
Ores and concentrates	251 958	356 922	421 536	257 914	351 882
Unwrought	34 910	4 505	2 106	2 845	5 701
Unwrought alloys	6 869	2 237	6 764	10 135	7 673
Scrap	9 670	16 426	12 426	5 124	9 226
United Kingdom					
Unwrought, unrefined	3 066	205	185	194	647
Unwrought, refined	4 850	14 059	8 863	17 951	24 498
Unwrought alloys	17 822	11 839	12 782	16 872	15 441
Scrap	358 981	429 467	421 868	513 394	373 943

Note(s)

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

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

Imports of copper

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought, unrefined	39 590	24 445	36 218	44 412	42 637
Unwrought, refined	8 855	4 868	10 361	16 680	8 374
Unwrought alloys	1 866	1 617	1 412	1 376	2 183
Scrap	113 109	134 063	145 903	130 675	127 187
Belgium					
Ores and concentrates	12 039	17 378	10 554	13 735	1 278
Matte and cement	4 482	36 352	29 857	41 741	40 104
Unwrought, unrefined	206 660	212 932	191 159	206 987	181 032
Unwrought, refined	54 380	79 524	61 447	34 734	71 465
Unwrought alloys	1 749	2 669	4 917	5 134	2 971
Scrap	249 718	215 202	272 816	255 661	303 702
Bulgaria					
Ores and concentrates	609 258	635 039	575 192	836 387	756 349
Matte and cement	34 997	15 160	13 642	2 006	98
Unwrought	30 422	8 016	8 272	12 441	6 982
Scrap	23 856	20 730	35 464	52 461	64 563
Croatia					
Unwrought	880	760	944	1 627	744
Czech Republic					
Unwrought	11 474	21 475	6 846	6 252	16 354
Unwrought alloys	3 862	3 050	3 674	3 388	1 867
Scrap	8 677	9 639	11 804	18 859	18 874
Denmark					
Unwrought	2 818	1 413	1 978	2 255	1 692
Scrap	11 235	10 388	9 125	9 075	7 547
Estonia					
Unwrought	659	489	520	484	4 180
Finland					
Ores and concentrates	536 584	352 370	458 174	415 365	424 982
Unwrought	2 490	16 298	4 212	4 711	6 366
Unwrought alloys	3 542	2 415	2 783	2 528	1 819
Scrap	4 146	7 349	6 967	7 726	9 839
France					
Unwrought	435 455	265 766	227 271	226 312	218 176
Unwrought alloys	8 987	7 980	9 242	9 148	8 200
Scrap	81 036	50 753	72 220	81 824	76 972

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Germany					
Ores and concentrates	1 088 291	1 252 430	1 128 472	1 124 525	1 215 273
Matte and cement	10 102	4 133	12 739	2 742	2 415
Unwrought, unrefined	24 706	46 840	23 331	68 147	45 707
Unwrought, refined	833 354	658 703	743 934	737 763	702 577
Unwrought alloys	40 073	38 538	36 249	35 493	37 491
Scrap	563 560	454 753	626 442	647 084	655 895
Greece					
Unwrought	79 928	57 367	63 443	53 615	53 416
Unwrought alloys	9 393	305	241	643	664
Scrap	18 628	11 245	20 017	29 253	43 607
Hungary					
Unwrought	3 016	2 168	3 637	4 819	11 217
Scrap	5 933	10 091	4 038	5 416	4 831
Ireland, Republic of					
Ores and concentrates	30 176	42 945	2	2	2
Italy					
Matte and cement	748	1 503	24	0	25
Unwrought	617 790	544 635	628 325	615 251	583 215
Unwrought alloys	18 531	8 166	14 679	15 910	14 795
Scrap	167 212	91 519	129 074	148 358	137 709
Latvia					
Unwrought	3 609	3 049	712	2 153	4 310
Unwrought alloys	1 361	926	698	950	2 597
Scrap	656	1 307	2 942	3 855	5 014
Lithuania					
Unwrought	1 454	415	596	4 652	1 251
Scrap	550	409	436	634	2 505
Luxembourg					
Scrap	8 833	7 533	10 708	10 061	14 275
Netherlands					
Ores and concentrates	66	46	40	125	2 529
Unwrought, unrefined	26	2 678	7 194	5 502	9
Unwrought, refined	35 077	33 771	26 982	41 659	25 369
Unwrought alloys	2 440	1 329	2 101	2 111	1 930
Scrap	116 503	—	144 426	204 327	214 211
Norway					
Unwrought	3 133	1 627	4 609	909	704
Scrap	11 189	9 727	9 891	12 856	12 073
Poland					
Ores and concentrates	62 443	78 027	38 000	45 484	41 333
Unwrought, unrefined	33 376	40 030	33 717	23 581	22 766
Unwrought, refined	6 629	13 838	26 944	11 822	19 234
Unwrought alloys	3 012	2 408	2 813	2 939	4 229
Scrap	19 269	22 153	24 316	26 201	53 828
Portugal					
Unwrought	1 204	4 027	5 534	4 725	4 688
Unwrought alloys	4 330	4 453	4 127	4 378	3 993
Scrap	10 229	7 550	8 819	7 973	5 169
Romania					
Unwrought	22 116	10 926	2 282	2 915	1 899
Scrap	4 197	437	2 443	3 218	2 355
Serbia					
Ores and concentrates	55 655	33 808	...	3 063	0
Unwrought	22 694	41 399	37 129	26 995	14 679
Slovakia					
Ores and concentrates	—	2 113	462	1	—
Matte and cement	...	3 300	799	10	—
Unwrought	4 120	4 685	6 153	7 531	8 665
Scrap	17 350	29 141	40 347	30 687	37 623
Slovenia					
Unwrought	2 649	2 826	8 369	7 062	1 287
Scrap	9 687	11 452	22 407	12 350	10 222

Copper

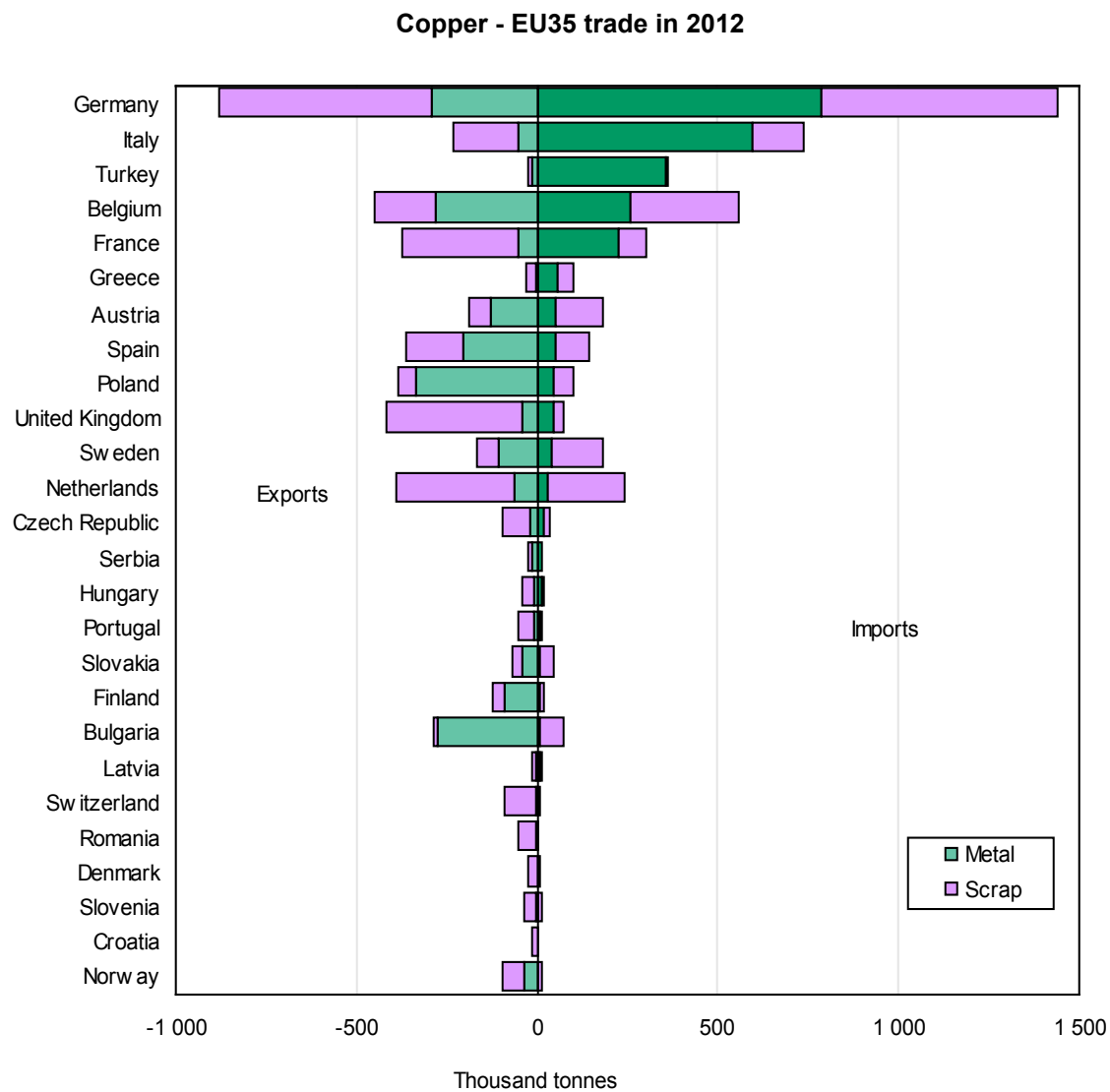
Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Spain					
Ores and concentrates	1 122 093	1 184 321	1 229 148	1 482 354	1 517 856
Matte and cement	...	21	992	17 530	9 417
Unwrought, unrefined	3 733	3 133	518	12 747	685
Unwrought, refined	79 125	80 898	73 904	62 695	44 567
Unwrought alloys	4 352	3 473	3 947	6 719	4 109
Scrap	65 765	68 166	82 931	89 499	97 129
Sweden					
Ores and concentrates	393 295	362 803	302 514	300 878	310 772
Unwrought, unrefined	23 539	22 072	3 100	5 843	6 690
Unwrought, refined	21 123	23 107	46 383	31 760	30 772
Unwrought alloys	5 239	2 040	5 181	3 186	2 588
Scrap	91 839	96 542	108 971	121 099	139 188
Switzerland					
Unwrought	5 903	3 473	3 229	2 353	2 006
Unwrought alloys	3 925	3 276	4 137	3 520	3 489
Scrap	5 266	2 710	6 061	4 178	2 244
Turkey					
Ores and concentrates	3 884	0	1 329	5	29
Unwrought, unrefined	38 116	4 852	5 892	4 329	2 824
Unwrought, refined	287 705	289 672	332 482	337 337	348 938
Unwrought alloys	3 060	2 828	6 601	9 450	6 695
Scrap	1 263	870	3 943	6 181	3 806
United Kingdom					
Unwrought, unrefined	5 529	3 034	2 039	1 267	147
Unwrought, refined	47 716	45 249	40 708	34 627	38 674
Unwrought alloys	5 721	4 066	5 688	5 498	5 957
Scrap	21 132	18 549	27 495	29 010	27 214

Note(s)

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



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 2012, with 27 per cent of the total world output. The second largest is Botswana (with 16 per cent), followed by the Democratic Republic of Congo (also with 16 per cent), Zimbabwe (nine per cent) and Canada (eight per cent).

Exports of diamond

Carats

Country	2008	2009	2010	2011	2012
Austria					
Unsorted	£71 000	£189 000	£729 000	£3 302 000	£170 000
Gem, cut	£5 778 000	£4 053 000	£3 564 000	£6 211 000	£3 657 000
Dust	£165 000	£260 000	£225 000	£66 000	£34 000
Belgium					
Gem, rough	99 500 000	85 500 000	113 000 000	90 500 000	89 000 000
Gem, cut	5 950 000	5 178 000	6 034 000	6 232 100	* 280 000
Industrial	500 000	1 670 000	3 320 000	3 170 746	* 5 900 000
Dust	£14 405 000	£11 148 000	£13 948 000	£12 800 000	£11 590 000
Czech Republic					
Gem, cut	£3 947 000	£3 046 000	£4 465 000	£7 709 000	£6 721 000
Denmark					
Unsorted	95 000	15 000	...	2 875 000	60 000
Gem, cut	3 000 000	685 000	520 000	545 000	360 000
Industrial	1 025 000	40 000	90 000	125 000	55 000
Dust	5 000	5 400 000	7 625 000	24 850 000	18 500 000
France					
Gem	293 420	394 845	145 682	129 943	* 500 000
Dust	838 620	940 610	1 609 470	8 768 911	2 075 000
Germany					
Unsorted (a)	£* 1 285 000	£* 775 000	£* 863 000	£* 489 000	£* 265 000
Gem	155 988	179 213	161 687	155 370	137 301
Dust	3 410 935	2 560 000	5 355 000	12 810 000	14 735 000
Greece					
Unsorted	£29 000	£206 000	£43 000	£99 000	£213 000
Gem	£501 000	£1 356 000	£1 956 000	£405 000	£270 000
Industrial	£105 000	£31 000	£49 000	£20 000	£24 000
Hungary					
Unsorted	...	...	4 000 000	5 500 000	3 500 000
Dust	...	...	...	...	14 500 000
Ireland, Republic of					
Gem, cut	345 000	210 000	345 000	260 000	600 000
Industrial	4 872	204 108	58 658	2 801 447	460 000
Dust	...	25 308 022	65 757 012	2 738 380	...
Italy					
Unsorted	225 000	200 000	210 000	205 000	2 880 000
Gem, cut	149 203	155 195	243 170	181 572	...
Dust	10 384 560	1 550 895	15 054 770	14 873 656	10 850 000
Luxembourg					
Dust	346 291 881	313 330	750 900	1 006 960	13 945 000
Netherlands					
Unsorted	£442 000	£494 000	£371 000	£1 799 000	£823 000
Gem, cut	£7 567 000	£3 780 000	£3 132 000	£16 418 000	£8 002 000
Industrial	£2 156 000	£1 415 000	£2 179 000	£1 282 000	£1 508 000
Dust	£45 000	£196 000	£51 000	£57 000	£97 000
Portugal					
Gem, cut	£55 000	£52 000	£550	£61 000	£136 000
Industrial	...	1 500 000	3 500 000	1 000 000	1 500 000
Dust	—	10 000	92 107	788 459	1 000 000
Slovakia					
Gem, cut	...	...	7 000 000	3 000 000	500 000
Dust	...	100	6 250 000	2 934 017	...

Exports continued

Carats

Country	2008	2009	2010	2011	2012
Spain					
Unsorted	£503 000	£266 000	£292 000	£154 000	£490 000
Gem, rough	...	...	...	...	£130 000
Gem, cut	£6 631 000	£5 328 000	£7 350 000	£9 802 000	£9 021 000
Industrial	£498 000	£171 000	£210 000	£590 000	£42 000
Dust	400 810	182 628	689 563	8 454 551	21 675 000
Switzerland					
Gem, rough	7 888	1 230	14 892	3 628	5 000
Gem, cut	582 240	252 685	357 976	435 272	145 000
Dust	44 105 000	30 400 000	60 980 000	70 880 000	59 620 000
Turkey					
Dust	3 494 000	1 000 025	1 253 750	7 702 486	400 000
United Kingdom					
Unsorted	3 388 395	4 090 534	3 689 202	2 735 369	2 974 099
Gem, rough	66 479 817	43 775 775	51 769 860	41 541 219	46 117 478
Gem, cut	795 612	257 202	283 435	1 292 162	1 702 424
Industrial	6 121 081	4 440 922	2 478 568	3 864 054	3 949 553
Dust	122 681 695	105 427 105	113 451 535	42 269 921	32 288 331

Note(s)

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

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

Imports of diamond

Carats

Country	2008	2009	2010	2011	2012
Austria					
Unsorted	£1 648 000	£543 000	£729 000	£3 371 000	£406 050
Gem, cut	£8 881 000	£9 795 000	£9 838 000	£19 112 000	£10 309 000
Industrial	£473 000	£313 000	£193 000	£5 500	£149 000
Dust	33 000 000	17 000 000	30 000 000	38 000 000	30 500 000
Belgium					
Unsorted	526 381	495 270	462 450	418 531	* 410 000
Gem, rough	55 000 000	44 000 000	63 000 000	67 500 000	54 500 000
Gem, cut	4 500 000	500 000	3 000 000	3 000 000	500 000
Industrial	8 000 000	3 500 000	3 000 000	1 000 000	2 500 000
Dust	63 000 000	35 000 000	61 000 000	58 000 000	68 500 000
Bulgaria					
Dust	7 623 860	4 940 300	7 251 395	7 571 255	* 7 641 000
Cyprus					
Gem, cut	£1 564 000	£1 724 000	£955 000	£976 000	£921 000
Industrial	£1 311 000	£587 000	£1 007 000	£944 000	£1 474 000
Czech Republic					
Gem, cut	116 669	7 306	5 567	6 796	* 10 000
Dust	£1 369 000	£977 000	£1 704 000	£1 954 000	£2 057 000
Denmark					
Unsorted	£1 168 000	£40 000	£255 000	£82 000	£17 000
Gem, cut	£7 424 000	£4 680 000	£5 339 000	£5 884 000	£8 897 000
Industrial	£104 000	£223 000	£59 000	£88 000	£137 000
Dust	1 905 000	10 680 000	2 075 000	1 940 000	1 210 000
Finland					
Gem, rough	£109 000	£56 000	£168 000	£131 000	£111 000
Gem, cut	£3 698 000	£3 133 000	£3 575 000	£3 346 000	£3 201 000
Industrial	500 000	20 000	65 000	520 000	20 000
Dust	625 200	273 415	519 830	773 725	645 000

Diamond

Imports continued

Carats

Country	2008	2009	2010	2011	2012
France					
Unsorted	£3 028 000	£3 338 000	£2 913 000	£3 615 000	£11 789 000
Gem, rough	344	1 854	469	2 960	* 1 500
Gem, cut	450 568	691 852	468 867	660 561	* 843 000
Industrial	73 641	40 221	30 480	30 012	* 54 000
Dust	13 938 146	9 314 960	12 512 821	22 167 841	21 135 000
Germany					
Gem	709 636	301 075	377 399	366 385	311 770
Industrial	505 400	211 630	122 838	143 922	158 572
Dust	45 914 930	25 210 000	64 065 000	89 060 000	94 415 000
Greece					
Unsorted	118 725 000	2 375 000	910 000	470 000	135 000
Gem, rough	425 000	3 365 000	920 000	...	15 000
Gem, cut	2 815 000	6 370 000	8 365 000	2 615 000	5 390 000
Industrial	22 810 000	43 195 000	4 375 000	3 680 000	2 150 000
Dust (a)	* 4 371 000	* 1 813 000	* 214 000	* 77 000	* 90 000
Hungary					
Gem, cut	£220 000	£167 000	£280 000	£657 000	£421 000
Industrial	(a)* £294 000	£171 000	£168 000	£675 000	£346 000
Dust	(a)* 4 550 000	(a)* 5 450 000	(a)* 8 910 000	(a)* 12 690 000	14 500 000
Iceland					
Gem, cut	* 200 000	* 100 000	110 592	90 000	160 000
Ireland, Republic of					
Unsorted	£1 019 000	£478 000	£362 000	£320 000	£314 000
Gem, rough	3 240 000	1 885 000	1 565 000	1 620 000	1 595 000
Gem, cut	28 020 000	18 170 000	11 385 000	6 745 000	3 905 000
Industrial	10 560 000	2 100 000	4 585 000	2 570 000	1 545 000
Dust	232 059 616	86 782 073	86 782 073	737 418 949	358 020 000
Italy					
Unsorted	£6 628 000	£1 738 000	£8 198 000	£8 652 000	£7 050 000
Gem, rough	10 000	25 000	60 000	115 000	175 000
Gem, cut	£307 964 000	£203 538 000	£285 718 000	£370 521 000	£338 455 000
Industrial	£4 859 000	£1 481 000	£7 993 000	£7 254 000	£4 318 000
Dust	252 290 000	121 055 000	196 860 000	248 520 000	252 160 000
Luxembourg					
Unsorted	£24 000	£47 000	£20 000	£248 000	£262 000
Gem, cut	£595 000	£446 000	£418 000	£533 000	£864 000
Industrial	155 000	60 000	105 000	35 000	860 000
Dust	£691 000	£227 000	£609 000	£472 000	£891 000
Montenegro					
Dust	117 503	17 850	45 000	...	...
Netherlands					
Unsorted	£803 000	£551 000	£80 000	£192 000	£144 000
Gem, rough	£1 071 000	£95 000	£47 000	£38 000	£61 000
Gem, cut	£17 750 000	£10 757 000	£15 248 000	£35 316 000	£30 128 000
Industrial	£1 088 000	£613 000	£624 000	£1 393 000	£1 392 000
Dust	791 805	426 830	290 475	2 074 815	820 000
Norway					
Gem, cut	13 178	9 604	8 545	5 305	* 4 400
Industrial	100 000	85 000	160 000	140 000	285 000
Poland					
Gem, cut	£4 686 000	£2 509 000	£2 128 000	£3 805 000	£2 532 000
Industrial	237 903	169 851	35 260	16 703	* 8 300
Dust	£334 000	£196 000	£179 000	£273 000	£376 000
Portugal					
Gem, cut	£3 949 000	£1 756 000	£2 039 000	£3 732 000	£2 906 000
Industrial	£296 000	£246 000	£111 000	£122 000	£86 000
Dust	5 891 661	5 514 973	10 117 653	16 401 864	5 595 000
Serbia					
Dust	417 357	478 650	550 000	885 000	425 000
Slovakia					
Gem, cut	£2 924 000	£1 993 000	£2 530 000	£2 720 000	£6 610 000
Industrial	10 817	* 2 600	55 000	1 037 208	* 10 000
Dust	...	59 781	18 560 000	129 250	* 193 000
Slovenia					
Dust	1 395 416	723 391	1 656 306	1 423 460	990 000

Imports continued

Carats

Country	2008	2009	2010	2011	2012
Spain					
Unsorted	£1 959 000	£1 591 000	£1 814 000	£3 864 000	£2 441 000
Gem, rough	£181 000	£207 000	£312 000	£276 000	£487 000
Gem, cut	£40 012 000	£30 290 000	£26 488 000	£25 312 000	£24 197 000
Industrial	£1 485 000	£917 000	£275 000	£605 000	£774 000
Dust	42 938 192	30 861 760	27 500 320	27 699 364	* 19 429 000
Sweden					
Unsorted	£100 000	£23 000	£125 000	£105 000	£178 000
Gem, cut	10 938	8 709	9 615	12 118	* 8 000
Industrial	217 127	6 907	26 277	5 390	* 8 100
Dust	4 000 000	1 500 000	8 000 000	9 500 000	* 9 100 000
Switzerland					
Gem, rough	11 566	4 498	20 460	3 263	* 3 000
Gem, cut	1 147 690	534 700	840 245	1 227 118	* 1 012 000
Dust	54 445 000	39 130 000	74 015 000	101 250 000	82 185 000
Turkey					
Gem	141 553	51 740	131 146	141 277	...
Industrial	102 596	29 724	46 890	82 417	65 000
Dust	18 430 000	19 120 000	25 190 000	31 125 000	36 995 000
United Kingdom					
Unsorted	10 283 610	8 348 854	8 703 907	8 484 526	9 238 531
Gem, rough	59 534 653	44 064 081	40 559 260	38 472 604	33 227 748
Gem, cut	1 343 330	868 406	761 455	18 292 931	7 009 031
Industrial	5 127 610	3 321 670	7 299 364	10 236 376	7 747 613
Dust	187 268 975	88 148 090	111 136 020	32 411 894	26 886 717

Note(s)

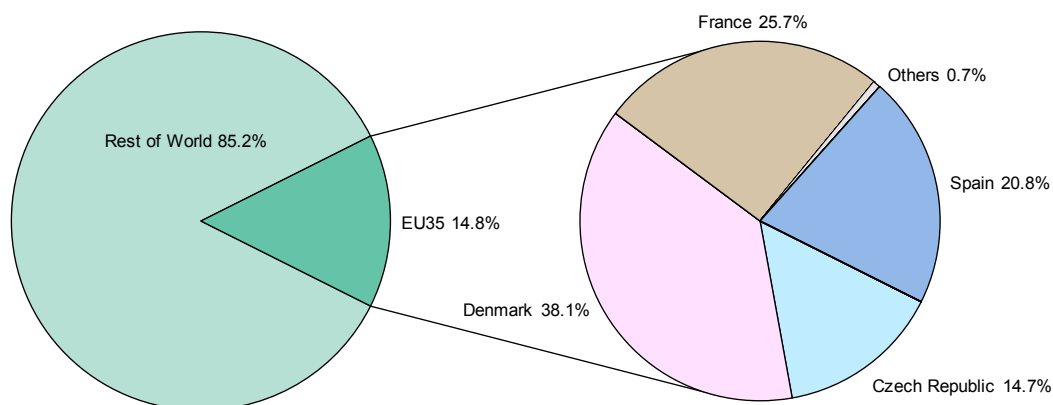
- (1) Carats have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national figure has been converted to £sterling
- (2) See explanatory notes at the front of the volume regarding currency conversion
- (3) In this table the term 'Dust' corresponds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

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

Diatomite

- Diatomite is a siliceous sedimentary rock composed of the skeletons of fossilised diatoms (microscopic plants). Clay content of the rock has a strong control on the quality of the diatomite. Diatomite is valued for its high porosity, chemical inertness and ability to absorb liquids. It is used in industry in high-quality filters and as an industrial absorbent.
- USA was the world's largest producer in 2012, with 42 per cent of the total world output. The second largest was China (22 per cent), followed by Denmark (six per cent), Japan and Peru (five per cent each).

EU35 Production of diatomite 2012



Production of diatomite

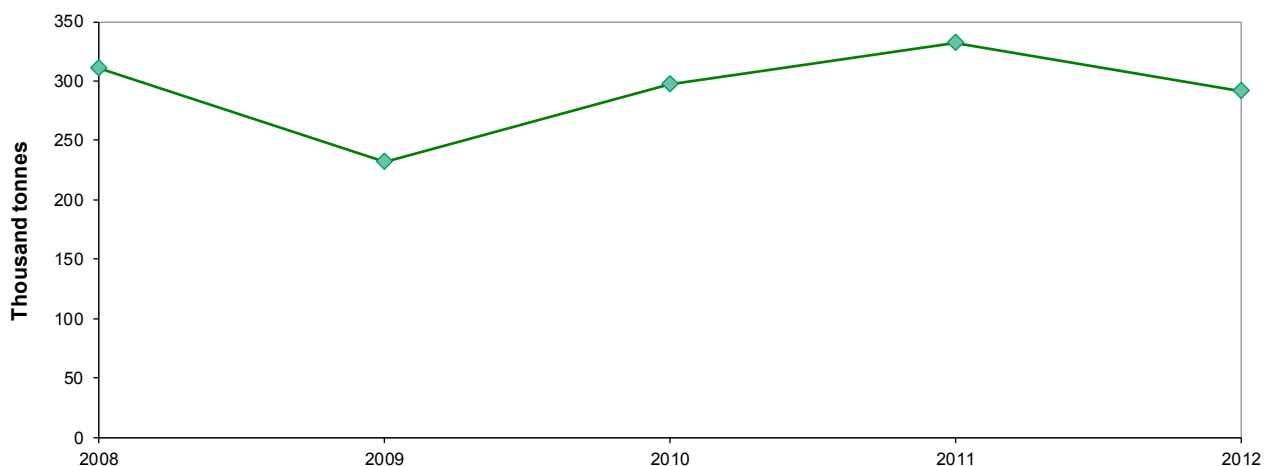
Country	2008	2009	2010	2011	2012
Czech Republic	31 000	—	32 000	46 000	43 000
Denmark					
Moler (a)	158 000	126 000	124 000	126 000	111 000
France	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Hungary	—	1 277	1 197	1 309	* 1 300
Poland	600	670	1 000	580	600
Spain (b)	46 192	29 194	64 346	83 624	60 777
EU35 Total	311 000	232 000	298 000	333 000	292 000

Note(s)

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

(b) Including Tripoli

EU35 Production of diatomite 2008 - 12



Exports of diatomite

tonnes

Country	2008	2009	2010	2011	2012
Austria	3 043	3 286	3 467	2 756	3 550
Belgium	2 612	1 907	3 004	3 122	2 690
Czech Republic	4 128	3 789	4 231	5 182	6 751
Denmark (a)	* 67 800	* 57 500	* 57 300	* 56 800	* 42 700
France	23 239	21 713	26 822	25 420	25 245
Germany	7 189	5 035	5 361	14 251	22 190
Italy	9 991	10 392	6 716	2 226	1 229
Lithuania	30	78	551	615	234
Netherlands	301	1 365	359	633	807
Norway	770	6	1	—	9
Poland	277	85	111	788	3 012
Portugal	554	473	7 545	7 299	11 538
Spain	5 306	4 678	7 382	6 637	10 384
Sweden	749	693	829	1 098	1 214
Switzerland	59	99	453	564	629
Turkey	40 370	39 267	37 432	28 104	36 985
United Kingdom	903	533	1 650	797	659

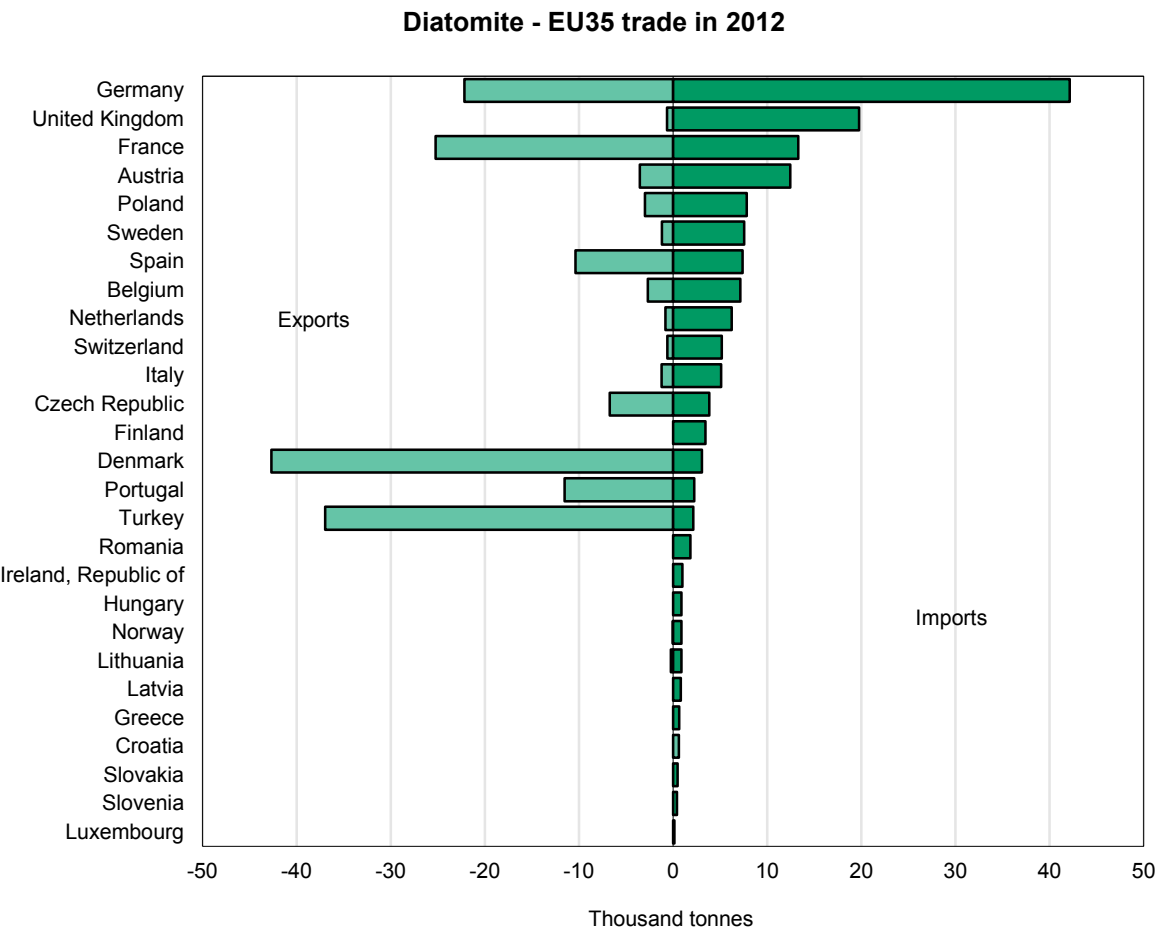
Note(s)

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

Imports of diatomite

tonnes

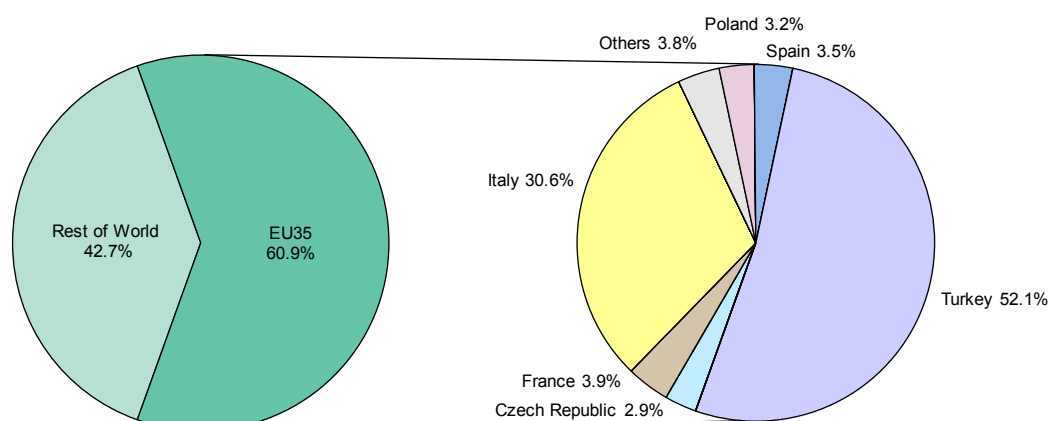
Country	2008	2009	2010	2011	2012
Austria	12 561	16 327	13 324	12 798	12 452
Belgium	8 353	6 414	11 813	10 815	7 143
Croatia	511	462	402	555	616
Czech Republic	4 768	3 173	2 753	3 263	3 829
Denmark	5 849	3 347	3 294	4 165	3 056
Finland	3 344	3 015	4 367	3 432	3 426
France	14 308	15 163	17 477	14 098	13 279
Germany	49 237	38 258	43 487	39 892	42 122
Greece	790	482	668	623	647
Hungary	1 110	796	957	1 189	885
Ireland, Republic of	1 458	1 243	640	699	965
Italy	3 939	2 497	3 920	5 555	5 091
Latvia	681	534	412	805	812
Lithuania	763	836	744	1 174	865
Luxembourg	1 492	7 054	7 858	7 394	129
Netherlands	6 275	3 794	4 641	6 034	6 232
Norway	1 891	931	842	808	867
Poland	9 504	9 790	6 753	9 365	7 802
Portugal	1 372	1 127	2 284	2 340	2 242
Romania	3 798	2 477	2 269	2 459	1 827
Slovakia	577	901	784	415	461
Slovenia	644	550	718	623	397
Spain	8 861	9 600	8 191	7 989	7 368
Sweden	6 929	6 082	8 099	8 247	7 532
Switzerland	4 864	5 071	5 758	4 642	5 177
Turkey	1 491	1 392	1 319	1 702	2 124
United Kingdom	23 084	22 014	18 649	20 042	19 752



Feldspar

- Feldspar is an abundant rock-forming aluminosilicate mineral. It is an essential component of glass and ceramic manufacture where it behaves as a flux and adds hardness, durability and resistance to corrosion.
- Turkey was the world's largest producer in 2012, with 32 per cent of the total world output. The second largest was Italy (19 per cent), followed by China (ten per cent), Thailand and India (with four per cent each).

EU35 Production of feldspar 2012



Production of feldspar

tonnes

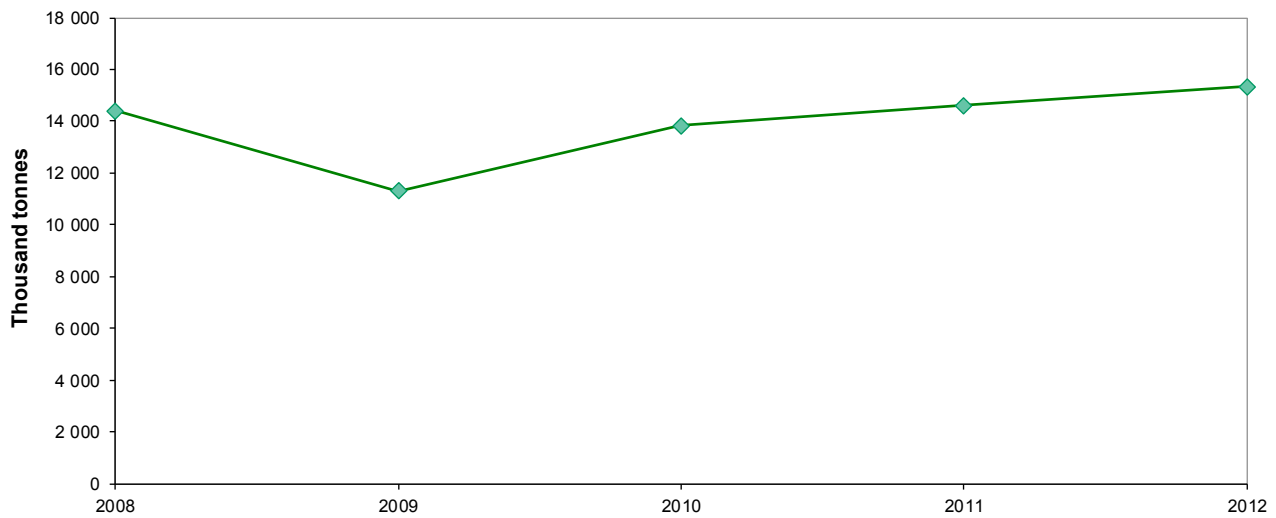
Country	2008	2009	2010	2011	2012
Bulgaria	* 90 000	* 80 000	* 80 000	* 80 000	* 80 000
Czech Republic	488 000	431 000	388 000	407 000	445 000
Finland	45 250	23 120	28 013	26 292	43 124
France	* 650 000	* 550 000	* 650 000	* 600 000	600 000
Germany	161 416	106 837	* 204 000	* 218 000	* 220 000
Greece	62 000	55 737	23 050	10 200	—
Italy	4 727 000	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000
Macedonia	28 920	19 377	23 188	25 032	17 168
Norway	62 000	48 000	56 000	25 271	—
Poland	599 100	445 500	513 700	538 800	487 200
Portugal	230 427	210 266	169 722	187 159	167 287
Romania	22 995	14 317	6 049	3 814	4 112
Serbia	* 200	149	253	23 586	19 927
Slovakia	10 000	13 000	—	—	—
Spain	690 256	597 496	691 894	662 418	530 238
Sweden	22 000	18 000	22 000	30 000	27 000
Turkey	6 500 000	4 000 000	6 281 597	7 076 068	* 8 000 000
United Kingdom (a)(b)	430	—	—	—	* —
EU35 Total	14 390 000	11 313 000	13 837 000	14 614 000	15 341 000

Note(s)

(a) China stone

(b) Including weathered granite feldspar

EU35 Production of feldspar 2008 - 12



Exports of feldspar

tonnes

Country	2008	2009	2010	2011	2012
Austria	15 194	14 025	13 474	11 807	11 452
Belgium	994	1 117	64	317	417
Bulgaria	16 912	15 007	19 087	19 329	19 414
Czech Republic	171 596	135 533	129 715	166 859	171 207
Finland	36 482	26 613	31 844	31 700	47 889
France	244 785	182 575	226 149	226 934	207 687
Germany	121 777	70 130	78 610	76 300	70 936
Greece	5 806	718	1 119	1 562	1 279
Italy	324 977	126 289	194 763	288 246	220 404
Macedonia	23 762	18 457	21 924	25 111	14 857
Netherlands	555	1 355	105	112	281
Norway	58 211	47 711	55 637	30 617	4 821
Poland	2 049	1 829	3 050	3 012	1 376
Portugal	873	1 290	2 190	3 197	17 482
Romania	16 438	8 375	1	283	260
Spain	79 120	56 161	69 337	71 959	63 369
Sweden	10 670	7 646	11 251	19 258	16 831
Turkey (a)	* 4 600 000	* 2 500 000	* 3 400 000	* 3 500 000	* 3 500 000
United Kingdom	82	369	38	34	92

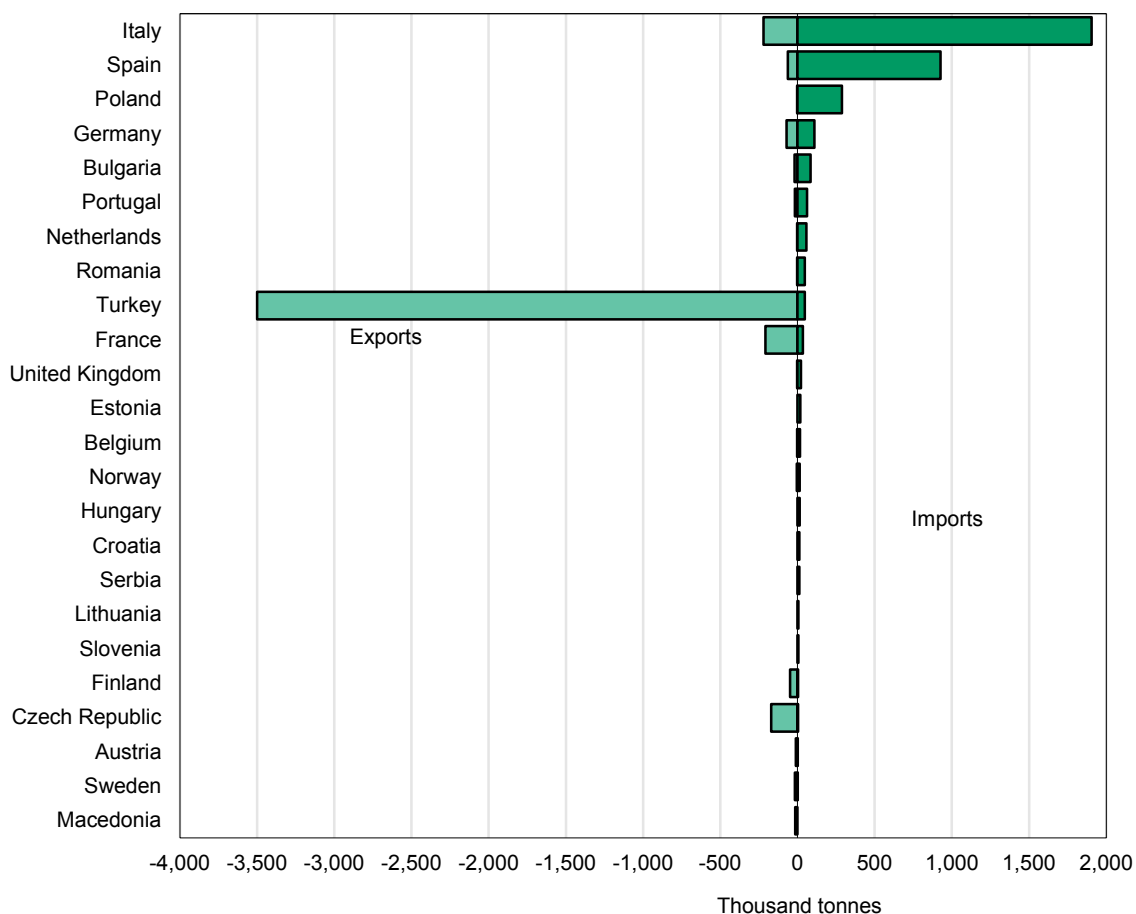
Note(s)

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

tonnes

Imports of feldspar

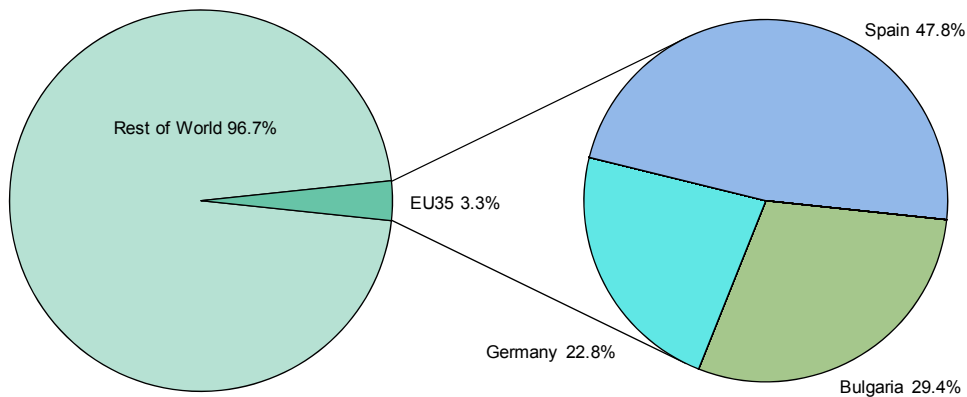
Country	2008	2009	2010	2011	2012
Austria	1 928	1 933	2 433	2 804	2 442
Belgium	34 837	27 113	24 495	22 623	17 062
Bulgaria	31 346	54 178	86 861	86 056	84 230
Croatia	15 983	14 603	14 763	14 001	11 676
Czech Republic	11 414	5 330	6 298	6 527	4 735
Denmark	2 678	2 666	1 211	2 612	45
Estonia	114	115	94	109	17 881
Finland	699	851	1 209	1 217	4 902
France	59 857	43 981	31 721	34 907	36 109
Germany	143 758	130 081	139 663	153 713	109 157
Greece	2 830	5 851	12 195	9 469	20
Hungary	10 418	14 499	14 235	14 211	13 905
Italy	2 511 704	1 570 345	1 951 827	1 954 499	1 905 805
Latvia	852	9	577	561	1 292
Lithuania	1 516	2 958	6 265	10 278	6 700
Netherlands	12 633	8 849	15 721	9 071	57 431
Norway	17 367	13 781	16 413	18 228	14 322
Poland	243 798	176 717	243 645	324 426	287 882
Portugal	85 400	72 275	63 675	49 902	61 516
Romania	49 160	37 639	36 924	45 421	47 688
Serbia	15 131	8 424	10 139	11 864	11 302
Slovakia	24 788	16 352	5 886	5 590	5 518
Slovenia	6 576	8 899	14 954	13 168	6 012
Spain	1 410 760	664 830	856 406	993 378	926 809
Sweden	3 861	4 268	6 410	4 363	547
Switzerland	7 653	6 478	6 593	6 124	4 575
Turkey	28 594	28 166	39 953	34 726	47 361
United Kingdom	18 899	9 299	17 584	16 750	21 610

Feldspar - EU35 trade in 2012

Fluorspar

- Fluorspar is the commercial name for the mineral fluorite (calcium fluoride) and it is an important raw material source of fluorine. Most fluorspar production is used in the manufacture of hydrofluoric acid which is used primarily in the pharmaceutical and agrichemical industries. Fluorspar is also used in steel and aluminium manufacture.
- China was the world's largest producer in 2012, with 62 per cent of the total world output. The second largest was Mexico (17 per cent), followed by Mongolia (six per cent), South Africa (three per cent) and Spain (two per cent).

EU35 Production of fluorspar 2012

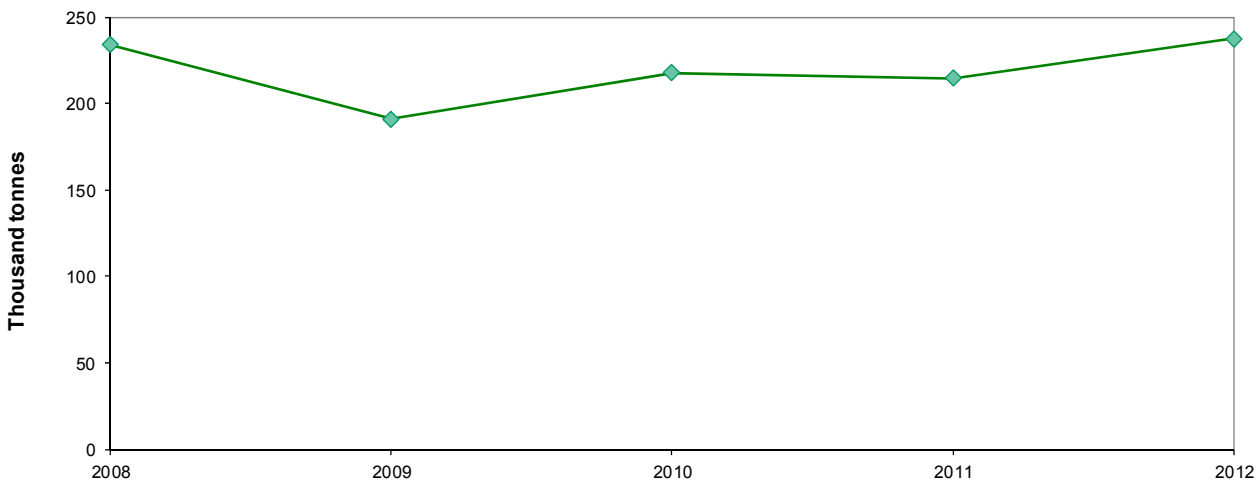


Production of fluorspar

tonnes

Country	2008	2009	2010	2011	2012
Bulgaria	—	32	10	31 800	69 700
Germany	48 519	49 962	59 086	65 619	54 202
Spain	148 736	122 533	132 341	117 063	113 570
United Kingdom	36 801	18 536	26 420	—	—
EU35 Total	234 000	191 000	218 000	214 000	237 000

EU35 Production of fluorspar 2008 - 12



Exports of fluorspar

tonnes

Country	2008	2009	2010	2011	2012
Belgium	156 066	84 491	122 483	118 782	147 771
Czech Republic	4 488	6 147	10 575	10 564	9 634
Germany	50 338	31 157	33 487	45 955	38 029
Italy	31 271	9 518	6 740	28 942	48 048
Netherlands	12 665	11 333	14 023	28 870	19 488
Spain	13 109	35 366	1 680	3 312	5 519
Sweden	11 538	6 745	8 101	11 053	13 714
United Kingdom	187	303	412	590	75

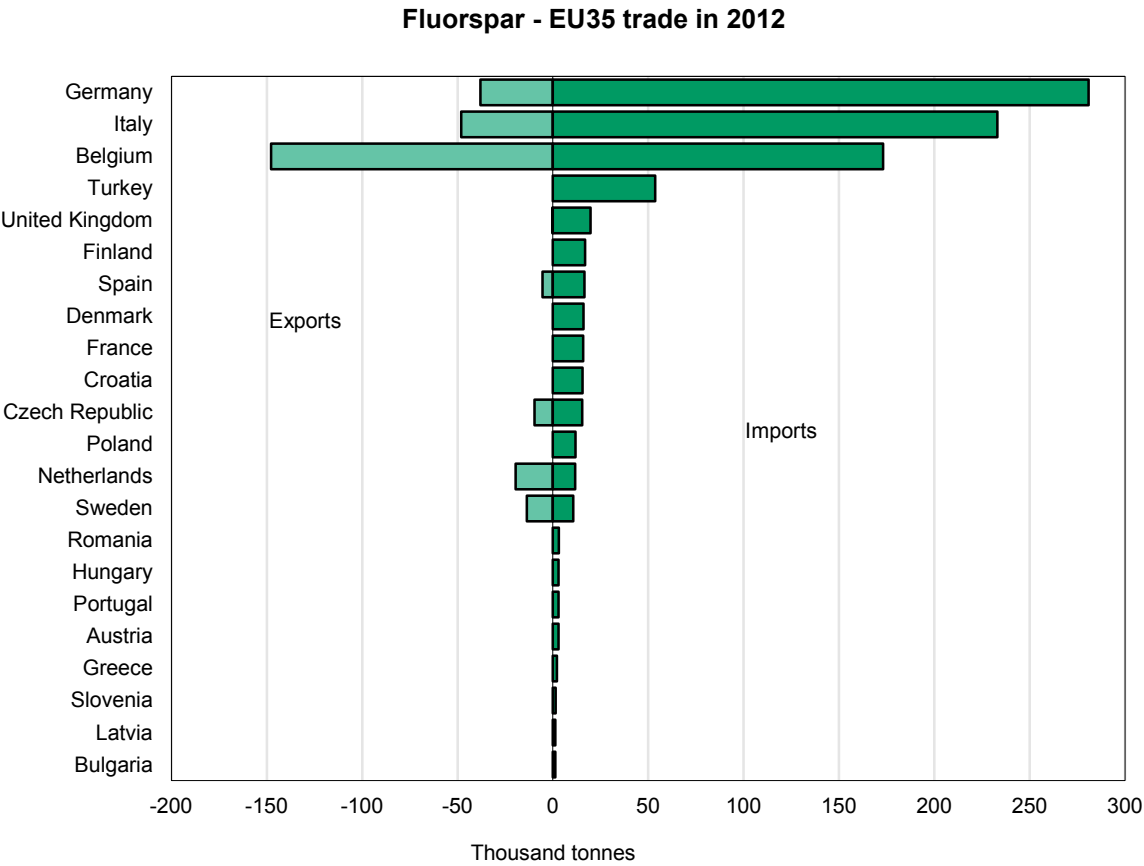
Imports of fluorspar

tonnes

Country	2008	2009	2010	2011	2012
Austria	3 405	1 956	3 490	2 911	2 935
Belgium	169 219	91 928	134 266	145 776	173 038
Bulgaria	651	778	700	1 742	1 262
Croatia	289	165	146	3 527	15 513
Czech Republic	3 440	8 626	14 495	15 547	15 388
Denmark	17 003	33 149	13 086	22 462	16 043
Finland	12 366	23 178	16 740	17 605	16 818
France	21 256	13 124	14 601	14 655	15 879
Germany	357 914	187 330	261 999	380 027	280 867
Greece	2 281	1 954	2 652	3 073	2 104
Hungary	4 512	(a)* 1 500	2 662	4 152	3 014
Italy	238 008	212 415	200 184	246 374	232 908
Latvia	240	468	678	775	1 269
Luxembourg	1 343	618	983	887	795
Macedonia	300	457	350	600	244
Netherlands	13 860	13 014	14 295	23 603	11 725
Poland	8 691	8 562	11 013	12 239	11 747
Portugal	1 828	2 243	636	794	3 005
Romania	2 526	1 481	2 911	3 817	3 178
Slovakia	1 143	644	954	762	896
Slovenia	1 326	1 064	1 754	1 463	1 481
Spain	32 016	17 148	12 008	14 198	16 542
Sweden	14 214	12 959	9 451	14 980	10 729
Switzerland	571	370	492	210	181
Turkey	34 073	36 114	37 977	48 210	53 627
United Kingdom	8 429	6 436	1 294	45 327	19 739

Note(s)

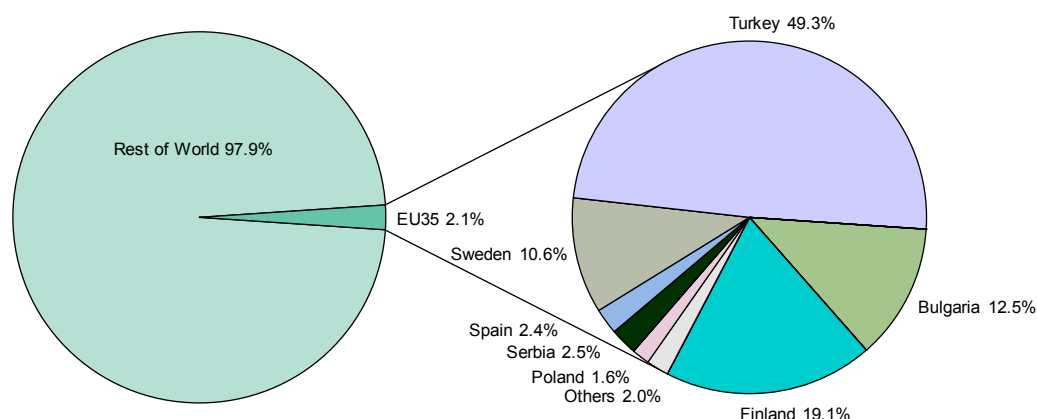
(a) BGS estimates, based on known exports from certain countries



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 2012, with 15 per cent of the total world output. The second largest was Australia (ten per cent), followed by USA (nine per cent), Russia (seven per cent), Peru and South Africa (six per cent each).

EU35 Mine production of gold 2012



Mine production of gold

kilograms

Country	2008	2009	2010	2011	2012
Bulgaria	4 160	4 482	4 489	5 302	7 058
Finland	4 148	5 749	7 628	8 461	10 814
Poland (a)	902	814	776	704	916
Romania	500	* 500	* 500	* 500	* 500
Serbia (a)	* 712	818	856	1 534	1 400
Slovakia	198	346	534	398	546
Spain	—	—	—	290	1 333
Sweden	4 953	5 542	6 285	5 994	6 015
Turkey	11 016	14 450	16 400	23 248	27 884
United Kingdom	163	187	177	202	102
EU35 Total	27 000	33 000	38 000	47 000	57 000

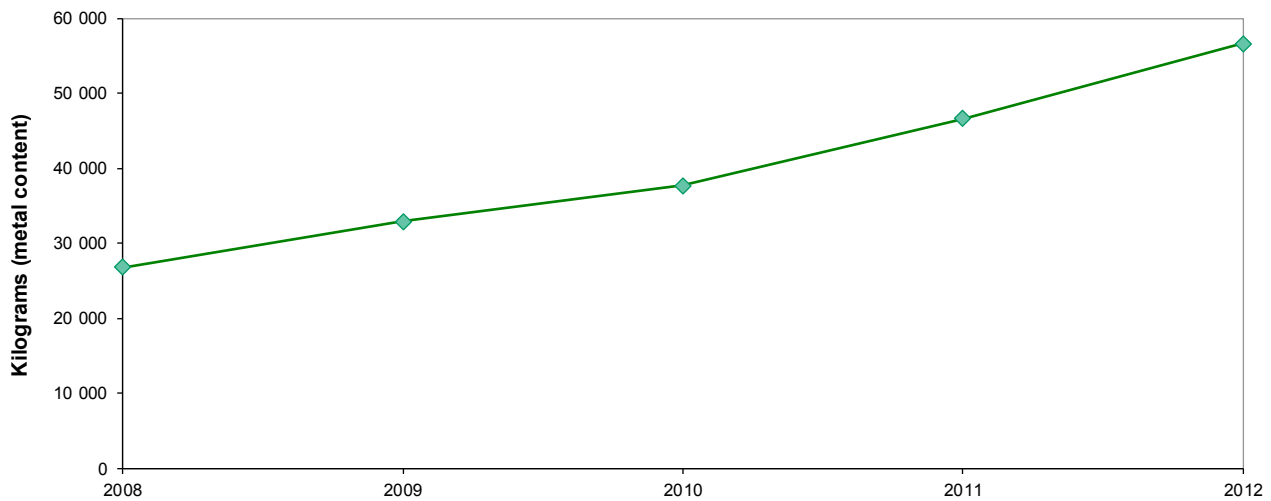
Note(s)

(1) In several countries substantial amounts of gold produced in small operations are not recorded in the official statistics used when compiling this table

(2) In addition to the countries listed, Greece produces less than 100 kg of gold per year

(a) Metal production

EU35 Mine production of gold 2008 - 12



Exports of gold

kilograms

Country	2008	2009	2010	2011	2012
Austria					
Metal	18 700	18 800	27 800	22 500	18 000
Waste and scrap	2 200	2 700	5 900	2 900	1 600
Belgium					
Metal	24 538	25 683	22 842	6 200	12 900
Waste and scrap	134 500	29 100	173 700	67 800	58 600
Croatia					
Metal	88	140	256	1 408	6 046
Cyprus					
Metal	600	700	300	600	1 200
Czech Republic					
Metal	4 000	9 800	12 000	21 400	5 300
Waste and scrap	5 200	5 600	4 400	2 700	11 700
Denmark					
Waste and scrap	600	500	500	1 800	3 000
Estonia					
Metal	...	—	400	2 300	1 600
Finland					
Metal	2 835	2 207	4 168	4 970	2 841
Waste and scrap	466	539	878	1 268	88 389
France					
Metal	22 247	22 447	27 729	45 303	54 233
Waste and scrap	50 700	34 094	24 189	29 961	10 955
Germany					
Metal	* 120 000	113 039	221 003	226 243	212 936
Waste and scrap	4 800	62 603	904 379	688 482	956 113
Greece					
Metal	495	581	48	2 455	1 426
Waste and scrap	...	...	...	12 300	9 300
Hungary					
Metal	657	1 312	1 827	2 214	1 300
Waste and scrap	...	...	2 221 600	2 665 300	2 115 900
Ireland, Republic of					
Waste and scrap	5 578	11 155	10 480	9 268	68 063
Italy					
Metal	51 260	106 646	109 762	176 952	200 363
Waste and scrap	1 376	173	154 845	1 006	7 001
Luxembourg					
Metal	55 600	38 000	32 700	8 000	4 500
Malta					
Waste and scrap	...	...	17 008	27 387	...

Exports continued

kilograms

Country	2008	2009	2010	2011	2012
Netherlands					
Metal	37 439	15 515	34 851	50 559	37 629
Waste and scrap	45 456	1 222	57 680	112 629	123 769
Norway					
Metal	3 847	3 865	4 567	7 439	8 498
Waste and scrap	600	1 197	1 482	1 904	4 261
Poland					
Metal	105 000	121 100	1 100	3 000	12 300
Waste and scrap	4 800	18 000	588	26	1 000
Portugal					
Metal	...	—	6 600	13 100	17 000
Waste and scrap	36 100	800	800	100	457 000
Serbia					
Metal	302	3 278	93	78	141
Slovakia					
Metal	2 914	3 196	2 926	20 000	3 300
Waste and scrap	800	1 200	7 300	6 800	4 800
Slovenia					
Metal	3 000	129	168	523	931
Waste and scrap	—	200	5 450	12 200	14 800
Spain					
Metal	6 966	31 466	282 816	9 444 195	4 268 966
Waste and scrap	1 147	131 376	258 156	176 652	113 264
Sweden					
Metal	19 400	14 500	14 700	12 900	16 600
Waste and scrap	29 400	60 900	5 100	21 000	9 700
Switzerland					
Metal	2 103 919	1 010 085	1 605 359	1 867 822	1 627 553
Waste and scrap	125 459	107 918	105 407	94 837	71 297
Turkey					
Metal	142 244	162 208	56 035	30 226	282 160
Waste and scrap	1 122	1 188	619	1 360	...
United Kingdom					
Metal	600 018	96 231	293 153	775 261	266 572
Waste and scrap	272 339	533 182	496 924	272 597	1 928 197

Note(s)

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

(2) Kilograms have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling

(3) See explanatory notes at the front of the volume regarding currency conversion

Imports of gold

kilograms

Country	2008	2009	2010	2011	2012
Austria					
Metal	72 300	86 500	56 600	63 500	47 300
Waste and scrap	400	1 700	1 400	2 400	3 300
Belgium					
Metal	15 600	13 100	10 100	9 100	9 400
Waste and scrap (a)	* 61 400	* 115 800	* 339 000	* 141 000	* 807 000
Bulgaria					
Metal	8 692	56	55	1 596	100
Croatia					
Metal	693	1 221	310	11	11
Czech Republic					
Metal	3 047	3 055	2 600	23 800	3 600
Waste and scrap	19 140	60 440	84 000	192 500	245 400
Denmark					
Metal	2 000	3 100	900	100 900	1 100
Estonia					
Metal	1 200	300	900	1 600	900

Gold

Imports continued

kilograms

Country	2008	2009	2010	2011	2012
Finland					
Metal	200	549	650	595	1 358
France					
Metal	20 071	16 877	20 037	19 721	18 994
Waste and scrap	3 300	6 248	25 070	3 886	697
Germany					
Metal	118 516	164 511	192 815	162 289	133 260
Waste and scrap	1 390 000	1 126 326	1 396 280	2 680 174	2 568 174
Greece					
Metal	114 976	23 739	21 029	9 111	346
Hungary					
Metal	...	1 076	396	1 512	* 1 500
Ireland, Republic of					
Metal	£5 271 000	£4 365 000	£4 047 000	£5 356 000	£7 079 000
Italy					
Metal	166 506	146 721	149 022	175 415	195 214
Waste and scrap	851	864	649	9 834	5 075
Lithuania					
Waste and scrap	—	103	—	64 453	12 202
Luxembourg					
Metal	37 400	10 000	12 300	13 300	10 000
Malta					
Metal	6 820	5 500	8 200	3 400	3 100
Netherlands					
Metal	41 012	42 806	37 888	38 349	35 027
Waste and scrap	2 422	111	110 465	188 490	117
Norway					
Metal	1 146	670	969	1 220	1 338
Waste and scrap	3 940	3 568	4 127	5 415	4 915
Poland					
Metal	3 800	100	200	1 500	1 800
Portugal					
Metal	1 535	1 077	1 500	1 200	800
Waste and scrap	...	...	...	1 405	121 743
Slovakia					
Metal	74 800	208 400	220 470	189 400	523 800
Slovenia					
Metal	1 700	400	1 100	1 700	1 100
Waste and scrap	9	1 210	5 400	5 600	1 800
Spain					
Metal	* 72 000	68 562	44 542	46 695	24 180
Waste and scrap	252	109	2 780	29 069	33 912
Sweden					
Metal	£25 583 000	£26 296 000	£32 625 000	£42 028 000	£33 413 000
Waste and scrap	£565 000	£53 000	£12 243 000	£33 337 000	£26 246 000
Switzerland					
Metal	2 101 027	2 198 967	2 343 070	2 684 244	2 280 196
Waste and scrap	214 839	319 257	219 260	205 846	28 550
Turkey					
Metal	179 606	52 654	64 105	128 367	157 629
United Kingdom					
Metal	914 000	1 166 948	800 602	1 012 882	1 052 573
Waste and scrap	43 143	213 440	65 833	71 449	164 833

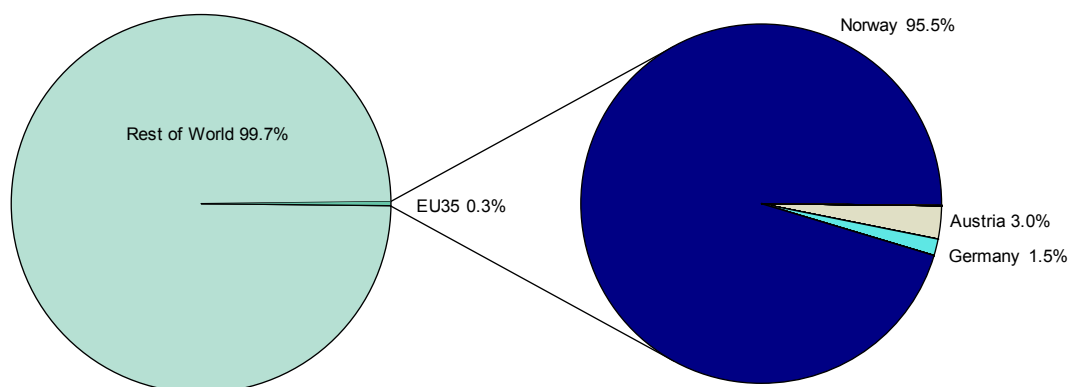
Note(s)

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

Graphite

- Graphite is a stable form of pure carbon. It is soft, has low friction and is inert. The major use of graphite is in refractories that can withstand the temperature of molten metals and slags. The graphite imparts high thermal shock resistance, useful in furnace components and crucibles. Other uses include lubricants and in brake linings.
- China was the world's largest producer in 2012, with 86 per cent of the total world output. The second largest was India (six per cent), followed by Brazil (four per cent), North Korea and Canada (one per cent each).

EU35 Production of graphite 2012



Production of graphite

tonnes

Country	2008	2009	2010	2011	2012
Austria (a)	250	750	420	925	219
Czech Republic	3 000	—	—	—	—
Germany	—	—	—	—	109
Norway	4 100	4 562	6 270	7 789	6 992
Romania	—	24 352	6 633	—	—
Turkey	3 236	2 400	—	—	—
EU35 Total	11 000	32 000	13 000	9 000	7 000

Note(s)

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

(a) Crude

EU35 Production of graphite 2008 - 12



Exports of graphite

tonnes

Country	2008	2009	2010	2011	2012
Austria	8 853	6 260	9 518	9 936	5 562
Belgium	3 815	2 634	993	1 316	1 716
Czech Republic	4 076	2 150	3 154	3 417	3 108
France	269	226	361	321	166
Germany	18 950	12 722	20 583	15 600	12 721
Italy	308	820	798	512	310
Netherlands	1 378	1 974	2 967	10 651	11 201
Poland	82	80	233	505	977
Slovenia	13	15	14	661	252
Spain	10 499	8 160	5 369	6 142	5 184
Sweden	252	159	254	129	129
Switzerland	600	355	326	100	96
Turkey	390	257	220	761	766
United Kingdom	3 156	2 271	2 981	3 660	2 196

Note(s)

(1) This table excludes synthetic graphite

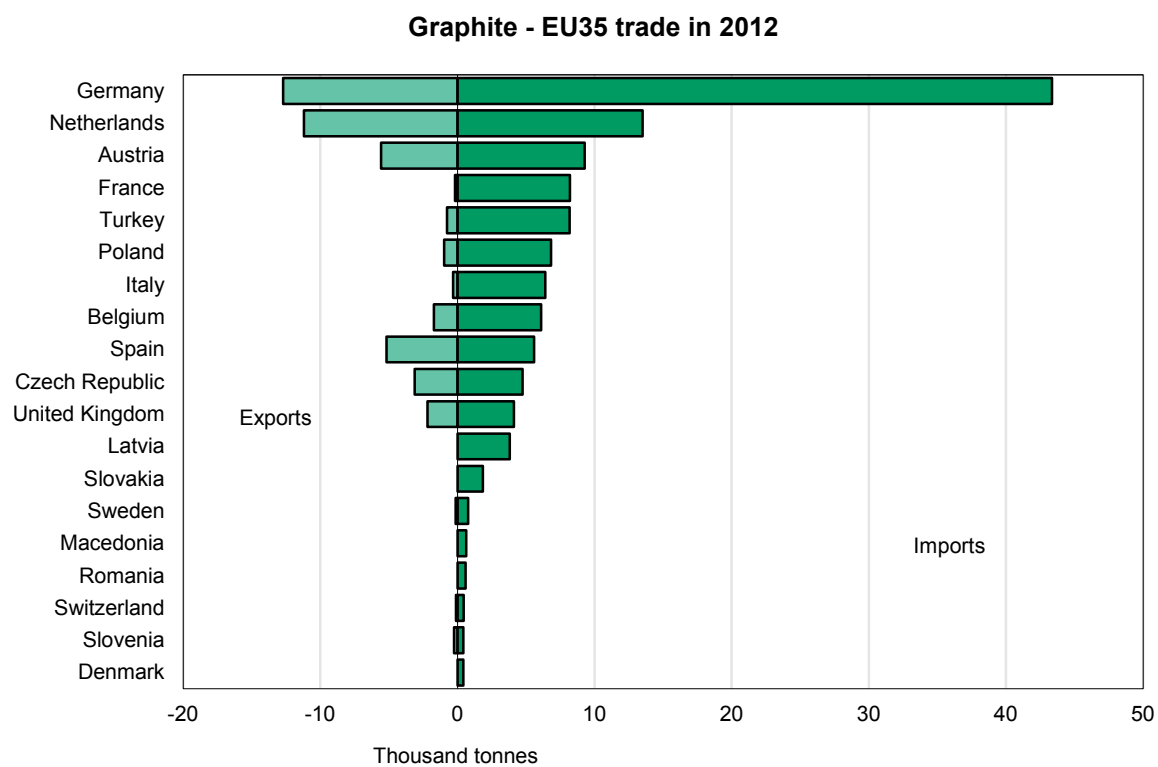
Imports of graphite

tonnes

Country	2008	2009	2010	2011	2012
Austria	30 863	4 622	18 501	21 867	9 272
Belgium	3 624	5 048	7 243	7 473	6 109
Bulgaria	158	132	66	65	56
Czech Republic	6 233	2 554	3 605	5 149	4 757
Denmark	185	269	303	405	424
France	20 618	10 376	9 981	11 725	8 201
Germany	62 180	33 293	56 333	57 411	43 349
Greece	142	918	219	92	68
Iceland	11	2 132	18	18	33
Italy	11 832	5 995	8 308	12 559	6 411
Latvia	2	—	1	1	3 813
Macedonia	1 522	761	875	911	648
Netherlands	42 612	2 487	16 692	14 266	13 498
Norway	561	508	400	129	124
Poland	4 474	3 078	6 933	10 267	6 833
Portugal	1 493	73	66	62	35
Romania	304	144	1 499	742	601
Slovakia	2 981	962	1 899	1 688	1 847
Slovenia	141	89	295	844	440
Spain	24 284	15 669	34 268	10 765	5 579
Sweden	1 091	835	1 315	1 129	779
Switzerland	931	306	848	823	454
Turkey	13 230	6 788	11 191	13 138	8 171
United Kingdom	14 309	7 850	6 989	6 869	4 114

Note(s)

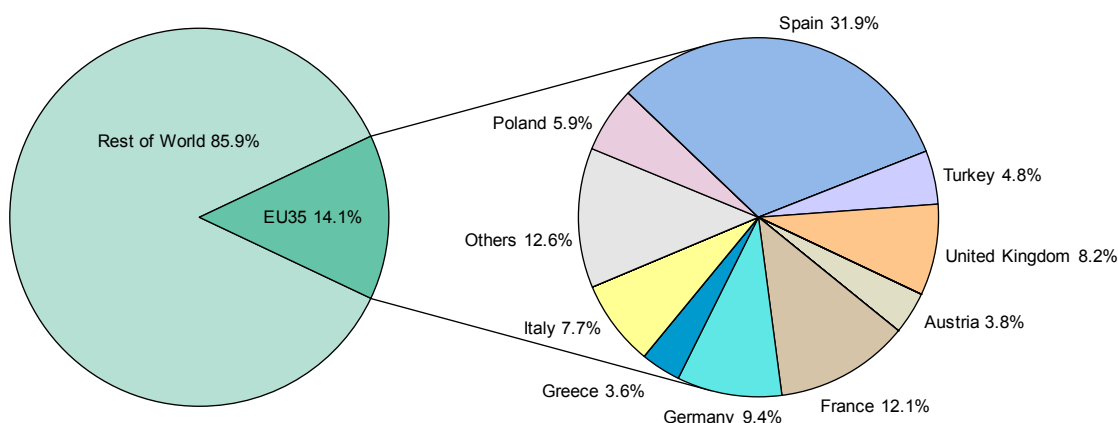
(1) This table excludes synthetic graphite



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 for a variety of uses 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 2012, with an estimated 25 per cent of the total world output. The second largest was Iran (ten per cent), followed by Thailand and USA (with seven per cent each), Mexico and Iraq (with six per cent each).

EU35 Production of gypsum 2012



Production of gypsum

tonnes

Country	2008	2009	2010	2011	2012
Austria (a)	1 087 259	910 945	872 273	815 438	791 961
Bulgaria	21 200	127 600	109 200	114 800	113 700
Croatia	* 250 000	318 139	248 675	231 008	182 557
Cyprus	412 000	317 000	333 000	335 000	327 800
Czech Republic	35 000	13 000	5 000	11 000	14 000
France (a)	2 338 910	1 887 260	2 065 814	2 452 204	* 2 500 000
Germany (a)	2 112 000	1 898 000	1 822 000	2 021 000	1 949 000
Greece (a)	1 000 000	730 000	* 600 000	587 000	746 000
Hungary (a)	15 940	19 766	20 000	3 000	—
Ireland, Republic of	* 600 000	* 400 000	* 300 000	* 300 000	* 200 000
Italy	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000	* 1 600 000
Latvia (a)	349 000	175 870	176 510	216 000	252 714
Macedonia (a)	242 400	154 550	143 118	162 984	157 844
Norway (a)(b)	70 013	68 103	36 395	88 953	85 296
Poland (a)	1 499 901	1 326 928	1 398 500	1 225 600	1 227 900
Portugal	372 731	335 189	336 755	337 272	264 427
Romania	832 248	720 713	639 010	* 660 000	* 600 000
Slovakia (a)	152 000	131 000	87 000	88 000	88 000
Spain	11 955 753	8 181 315	6 990 249	7 825 747	* 6 600 000
Switzerland	* 300 000	* 300 000	* 300 000	* 350 000	* 320 000
Turkey	7 338 127	4 369 589	2 850 601	991 415	* 1 000 000
United Kingdom	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000	* 1 700 000
EU35 Total	34 300 000	25 700 000	22 600 000	22 100 000	20 700 000

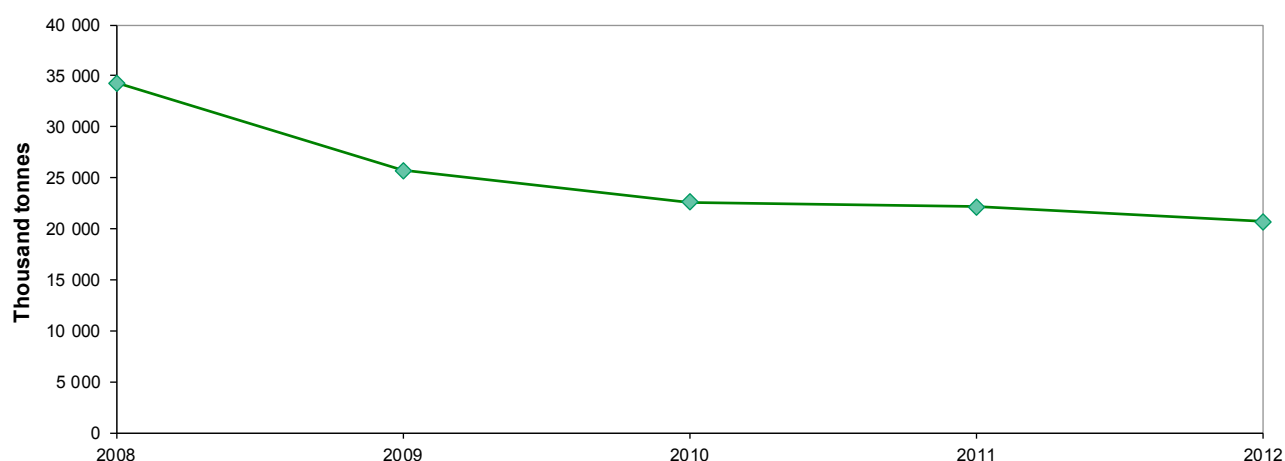
Note(s)

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

(a) Including anhydrite

(b) Sales

EU35 Production of gypsum 2008 - 12



Exports of gypsum

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Crude	26 402	20 694	19 124	23 007	18 485
Calcined	89 906	78 839	55 927	76 548	79 280
Belgium					
Crude	89 626	113 954	92 533	101 382	72 899
Calcined	3 817	1 823	177 046	(a)* 195 000	(a)* 184 000
Bulgaria					
Crude and calcined	787	11 965	3 641	10 953	21 872
Croatia					
Crude and calcined	4 738	3 119	10	66	23
Cyprus					
Crude and calcined	279 902	236 427	250 034	248 284	249 250
Czech Republic					
Crude	60 018	10 195	48 605	103 363	63 751
Calcined	7 881	6 430	5 235	3 448	3 537
Denmark					
Crude	141 124	8 440	2 211	63	5 155
Calcined	4 173	1 455	8 299	6 725	13 990
Estonia					
Crude and calcined	4 154	22	87	105	1 781
France					
Crude	381 841	267 315	259 192	239 815	267 365
Calcined	338 682	282 254	286 799	310 248	289 668
Germany					
Crude	447 140	393 691	430 977	516 024	501 487
Calcined	1 775 467	1 290 391	1 558 288	1 333 953	1 444 714
Greece					
Crude	21 258	49 037	38 459	95 699	142 598
Calcined	937	580	337	621	3 750
Hungary					
Crude and calcined	19 259	22 019	17 367	44 845	59 059
Ireland, Republic of					
Crude	1 094	10 425	23 355	5 390	5 176
Calcined	32 821	28 491	15 129	21 274	16 585
Italy					
Crude	24 525	17 907	12 035	9 614	8 383
Calcined	24 496	21 848	18 484	39 465	79 661
Latvia					
Crude and calcined	63 732	37 352	38 596	47 016	84 358
Lithuania					
Crude and calcined	2 436	423	237	250	243
Luxembourg					
Crude and calcined	553	661	1 596	1 919	1 698

Gypsum

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Macedonia					
Crude and calcined	12 496	12 604	30 273	32 328	715
Netherlands					
Crude	37 991	* 39 600	15 773	42 080	36 388
Calcined	15 228	5 550	1 656	2 714	3 005
Norway					
Crude and calcined	69 976	68 140	36 298	85 598	90 159
Poland					
Crude and calcined	58 644	40 512	47 654	121 689	111 389
Portugal					
Crude and calcined	22 707	12 394	20 016	47 278	56 546
Romania					
Crude and calcined	13 069	17 966	17 672	15 576	15 693
Serbia					
Crude and calcined	2 230	617	16	40	19
Slovenia					
Crude and calcined	8 575	6 575	205	220	303
Spain					
Crude	3 458 773	2 187 816	2 678 208	3 367 083	3 780 980
Calcined	228 060	182 982	165 424	156 461	135 415
Sweden					
Crude and calcined	11 525	9 358	8 155	3 865	4 466
Switzerland					
Crude and calcined	5 207	2 454	8 536	8 606	7 283
Turkey					
Crude	37 899	145 717	134 905	111 864	107 000
Calcined	838 314	643 873	682 898	708 056	789 505
United Kingdom					
Crude	1 493	1 978	3 330	3 428	4 036
Calcined	48 340	32 551	24 552	25 504	21 216

Note(s)

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

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

Imports of gypsum

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Crude	10 118	12 098	22 432	84 817	36 806
Calcined	67 712	73 588	70 850	72 696	77 931
Belgium					
Crude	1 231 279	702 104	616 338	683 957	838 204
Calcined	505 792	424 465	396 873	507 725	455 117
Bulgaria					
Crude	12 223	15 830	6 239	11 399	6 338
Calcined	70 280	42 086	44 383	37 323	29 471
Croatia					
Crude	38 120	14 470	1 608	11 421	13 269
Calcined	34 224	22 154	14 076	12 709	11 790
Cyprus					
Crude and calcined	15 045	10 807	9 292	6 461	5 165
Czech Republic					
Crude	76 119	83 819	55 087	57 962	48 657
Calcined	75 278	53 954	33 763	34 353	33 209
Denmark					
Crude	379 094	106 304	53 577	97 219	133 652
Calcined	52 087	58 675	42 290	21 696	79 529
Estonia					
Crude	19 239	381	11 295	11 922	16 772
Calcined	18 823	8 760	8 950	8 343	7 718

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Finland					
Crude	408 509	146 141	235 787	182 082	223 784
Calcined	6 598	5 664	7 281	11 020	9 270
France					
Crude	492 072	354 086	313 842	249 933	283 071
Calcined	116 678	101 840	85 849	76 800	73 772
Germany					
Crude	54 216	28 315	29 132	26 182	21 712
Calcined	76 992	75 319	82 341	80 574	98 665
Greece					
Crude and calcined	3 093	2 097	1 759	1 400	3 714
Hungary					
Crude	6 713	3 248	5 362	5 198	5 241
Calcined	49 220	43 128	12 413	18 039	24 138
Iceland					
Crude	10 533	4 724	2 579	892	682
Calcined	1 606	642	192	181	190
Ireland, Republic of					
Crude	1 412	15 931	20 637	2 731	10 715
Calcined	24 877	13 930	5 410	9 318	7 623
Italy					
Crude	21 411	5 754	3 618	2 205	8 793
Calcined	19 621	16 645	16 267	16 976	17 916
Latvia					
Crude	146	1 037	22 669	33 495	48 578
Calcined	5 672	883	2 027	2 787	2 523
Lithuania					
Crude	90 320	28 754	54 772	63 632	64 379
Calcined	43 127	19 974	17 377	18 503	19 211
Luxembourg					
Crude	51 416	57 828	50 104	69 918	63 994
Calcined	25 257	15 793	10 715	18 459	24 216
Malta					
Crude and calcined	5 505	2 305	10 446	11 428	12 507
Montenegro					
Crude and calcined	1 747	3 356	653	730	521
Netherlands					
Crude	285 990	249 206	203 179	307 971	280 623
Calcined	415 623	418 481	368 523	611 145	570 600
Norway					
Crude	121 440	76 435	84 359	94 824	79 789
Calcined	298 394	234 564	270 721	275 909	299 898
Poland					
Crude	170 571	157 974	129 336	134 230	122 407
Calcined	215 458	82 586	53 613	47 261	39 845
Portugal					
Crude	89 627	81 971	73 822	40 153	28 175
Calcined	298 708	244 809	270 783	237 788	167 437
Romania					
Crude	90 194	45 891	40 703	63 658	92 883
Calcined	100 471	62 134	47 912	50 866	43 118
Serbia					
Crude	21	13 273	14 601	22 546	32 566
Calcined	18 733	11 684	9 276	9 962	9 096
Slovakia					
Crude	111 188	53 104	74 512	80 966	70 308
Calcined	47 044	52 703	16 732	17 194	17 335
Slovenia					
Crude	24 660	5 565	942	785	37
Calcined	8 622	9 432	7 615	6 218	6 095
Spain					
Crude	43 171	25 963	20 776	13 185	11 943
Calcined	33 825	7 349	6 015	5 787	5 548
Sweden					
Crude	178 364	94 656	256 696	324 584	294 946
Calcined	154 201	158 842	73 865	58 751	48 111

Gypsum

Imports continued

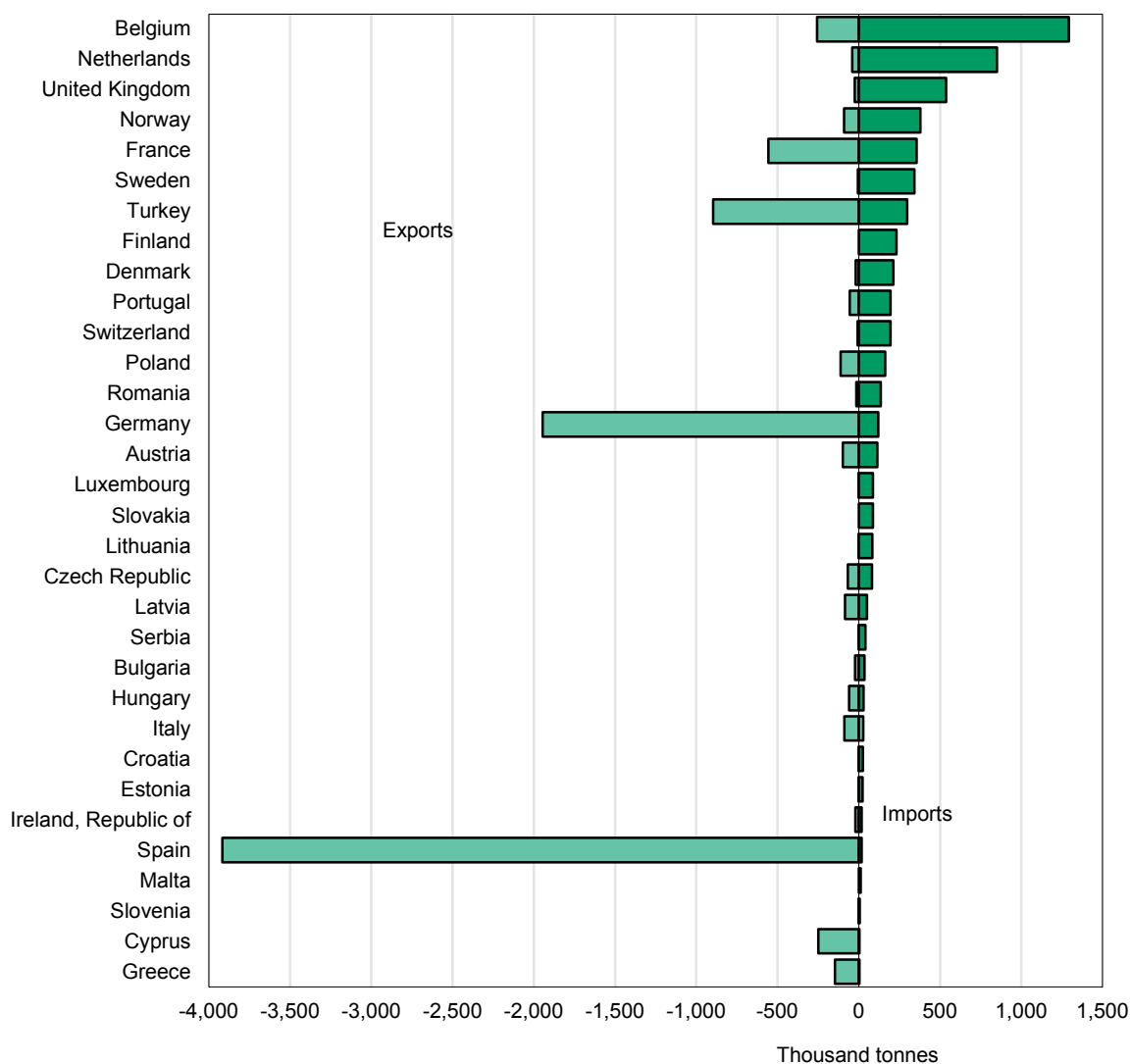
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Country	2008	2009	2010	2011	2012
Switzerland					
Crude	101 731	101 228	112 555	94 474	81 642
Calcined	97 296	87 350	100 958	104 574	113 112
Turkey					
Crude	165 775	201 077	232 713	375 169	295 462
Calcined	1 797	1 419	1 782	1 916	2 259
United Kingdom					
Crude	140 783	396 138	216 605	539 327	490 661
Calcined	88 766	60 337	54 209	46 526	47 545

Note(s)

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

Gypsum - EU35 trade in 2012



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 2012, with 59 per cent of the total world output. The second largest was Japan (32 per cent), followed by USA (four per cent), China (two per cent), Azerbaijan and Turkmenistan (one per cent each).

Exports of iodine

kilograms

Country	2008	2009	2010	2011	2012
Austria	139	339	564	413	10 652
Belgium	3 560 100	2 582 300	3 989 500	3 584 800	3 391 900
Bulgaria	200	300	600	600	500
Czech Republic	300	500	1 000	2 000	4 000
Denmark	1	1 500	3	100	—
France	100 500	101 909	47 103	89 357	187 560
Germany	97 400	112 690	62 331	124 705	109 595
Hungary	...	...	...	...	92 300
Ireland, Republic of	1 536	1 982	—	2 589	—
Italy	2 119	86 917	24 722	20 112	22 559
Latvia	200	—	4 200	—	7 400
Lithuania	3	—	4	8 900	3 000
Luxembourg	...	...	83 600	40 900	—
Netherlands	773 705	386 170	124 797	152 295	122 569
Norway	—	250	—	13 250	1 127
Poland	5 100	5 100	16 400	4 000	3 700
Spain	46 873	15 376	14 704	7 909	43 289
Sweden	122	300	700	900	7 900
Switzerland	1 605	97	349	239	238
Turkey	1 212	31 908	2 960	4 877	2 480
United Kingdom	174 965	121 370	393 005	234 182	370 132

Imports of iodine

kilograms

Country	2008	2009	2010	2011	2012
Austria	139 700	204 100	213 000	198 500	147 200
Belgium	3 586 200	3 189 200	4 087 700	3 814 500	4 663 100
Bulgaria	2 900	2 900	2 300	2 800	3 600
Czech Republic	25 200	31 900	35 100	36 500	22 600
Denmark	1 122 329	8 674	10 168	5 895	8 447
Estonia	18	196	13 157	258	39
Finland	3 400	2 901	1 443	1 174	856
France	1 875 400	1 189 569	1 530 436	1 492 427	1 501 344
Germany	1 150 600	1 168 886	1 422 575	1 576 165	1 700 953
Greece	600	800	1 300	200	300
Hungary	7 900	2 100	2 700	6 100	4 000
Iceland	12 029	9	9	24	278
Ireland, Republic of	21 515	24 358	13 311	22 220	32 305
Italy	1 343 977	1 256 232	1 080 203	1 375 868	1 633 655
Lithuania	383	4 510	17 732	20 100	3 200
Netherlands	800 817	23 376	16 031	1 352 421	811 065
Norway	1 668 339	1 270 662	1 708 338	1 663 657	1 759 025
Poland	24 100	10 600	21 700	11 600	12 900
Portugal	100	8 000	8 700	8 600	6 300
Romania	1 395	330	300	500	400
Serbia	4 494	4 030	8 137	10 876	2 790
Slovenia	119	631	45	35	111
Spain	541 706	512 821	342 914	522 768	357 482
Sweden	600	400	1 100	1 800	8 600

Iodine

Imports continued

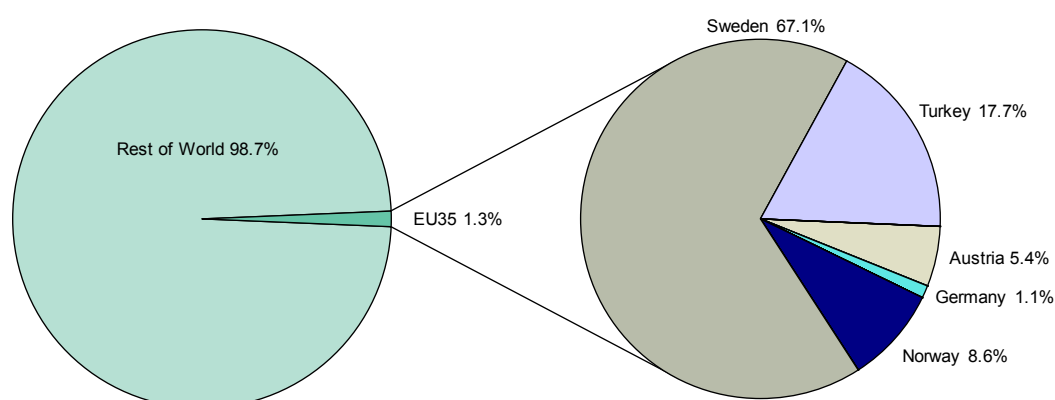
kilograms

Country	2008	2009	2010	2011	2012
Switzerland	7 260	7 156	10 238	10 839	13 172
Turkey	9 498	12 133	3 218	6 641	6 163
United Kingdom	1 106 864	1 075 328	1 253 806	1 426 239	1 573 126

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 2012, with 44 per cent of the total world output. The second largest was Australia (18 per cent), followed by Brazil (13 per cent), India (five per cent) and Russia (four per cent).

EU35 Production of iron ore 2012



Production of iron ore

tonnes

Country	2008	2009	2010	2011	2012
Austria (a)	2 032 671	2 002 131	2 068 853	2 206 910	2 142 255
Germany (b)(c)	455 100	363 699	390 353	489 091	447 515
Norway	746 000	896 000	3 266 000	2 532 100	3 421 000
Slovakia	392 000	—	—	—	—
Sweden	23 888 000	17 677 000	25 292 000	26 113 000	26 540 000
Turkey	3 990 110	4 169 972	5 378 455	6 308 448	* 7 000 000
United Kingdom	145	—	—	—	—
EU35 Total	31 504 000	25 109 000	36 396 000	37 650 000	39 551 000

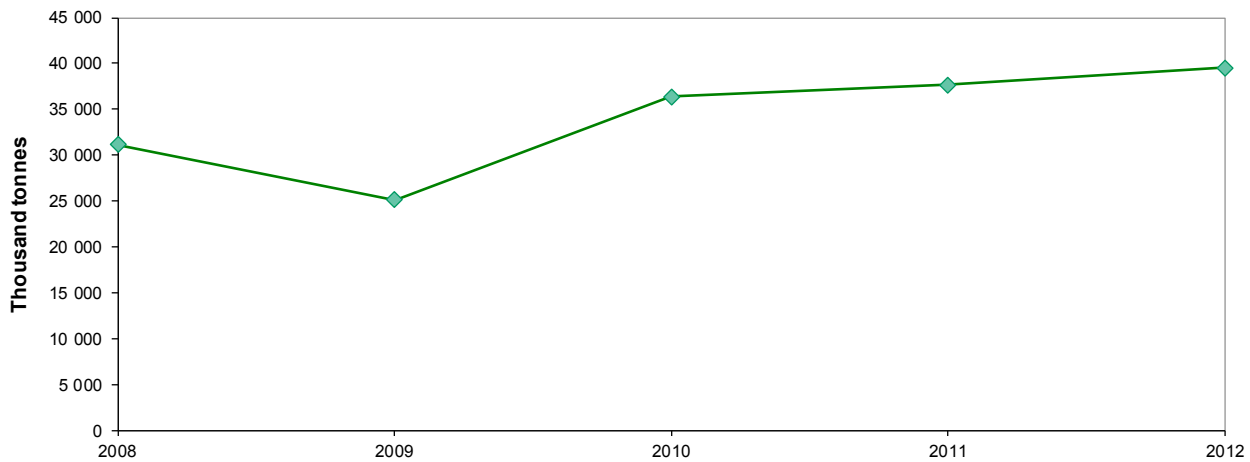
Note(s)

(a) Including micaceous iron oxide

(b) Including manganiferous iron ore

(c) Used as aggregate in the construction industry

EU35 Production of iron ore 2008 - 12



Exports of iron ore

tonnes

Country	2008	2009	2010	2011	2012
Belgium	85 701	178 567	366 331	455 069	76 216
Bulgaria	...	12 705	1	—	26 823
Finland					
Burnt pyrites	396 064	244 225	391 549	* 1 200 000	* 800 000
France	57 720	124 492	(a) 19 349	129 374	87 981
Germany					
Iron ore	34 495	4 497	22 373	54 555	42 763
Burnt pyrites	12 700	10 865	7 994	15 999	—
Hungary	...	—	52 400	64 435	63 373
Italy (a)	1 699	354	8 779	6 742	14 191
Netherlands	(a) 85 698	(a) 239 932	121 426	208 469	49 903
Norway	615 296	775 828	1 803 242	2 435 415	3 659 210
Poland	10 198	14 893	16 130	4 400	1 573
Romania					
Iron ore	42 606	172 372	1 718	2 728	53 998
Burnt pyrites	15 567	12 694	1 359	1 690	2 887
Slovakia	53 434	5 923	62 568	22 481	118 695
Spain (a)	62 147	17 348	9 079	165 589	184 056
Sweden	17 617 162	16 104 129	20 726 152	21 115 203	22 869 383
Turkey	4 163	(a) 3 361	(a) 200 600	(a) 296 550	(a) 423 536
United Kingdom	7 821	32 579	5 256	179 709	108 415

Note(s)

(a) Including burnt pyrites

Imports of iron ore

tonnes

Country	2008	2009	2010	2011	2012
Austria (a)	7 996 632	6 095 762	9 309 860	9 966 338	9 628 923
Belgium					
Iron ore	12 329 299	3 254 834	7 567 453	7 425 015	6 309 506
Burnt pyrites	431	23 648	45	...	—
Bulgaria					
Iron ore	208 559	3 110	7 991	1 265	1 987
Burnt pyrites	188 923	15 831	16 653	16 679	11 794
Croatia (a)	17 177	12 057	20 147	2 123	2 764
Czech Republic (a)	6 799 756	4 803 009	5 902 011	7 363 983	5 870 744

Imports continued

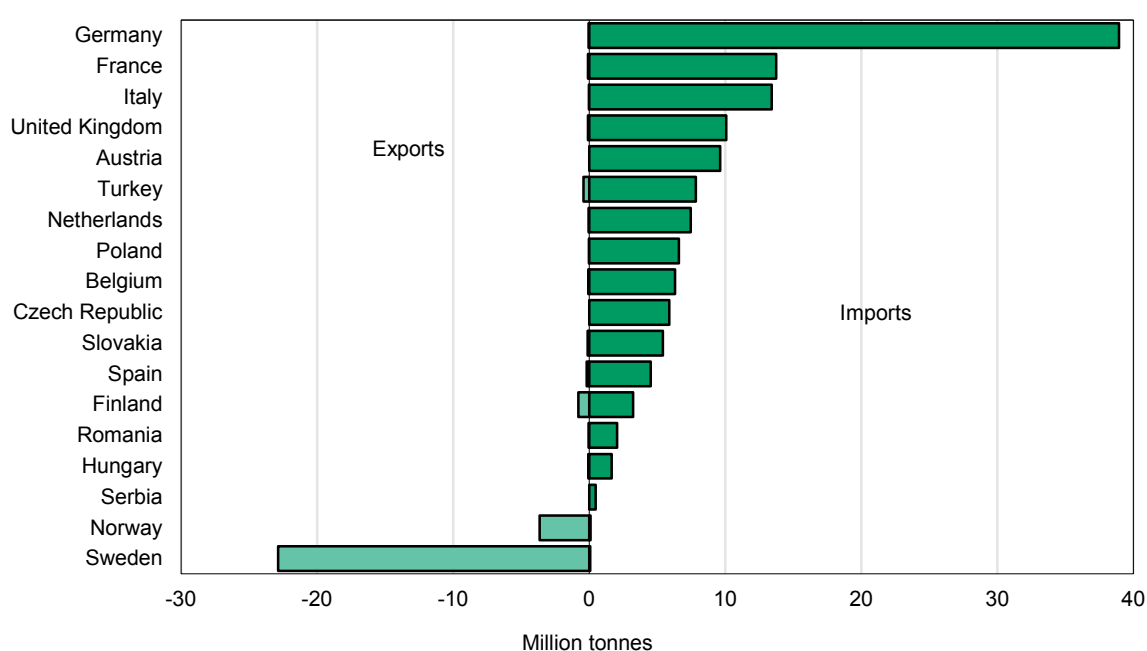
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Country	2008	2009	2010	2011	2012
Denmark					
Iron ore	111 604	69 990	53 896	118 928	49 006
Burnt pyrites	—	—	15 457	8	—
Finland	3 121 303	2 204 018	(a) 3 052 609	3 728 222	3 220 998
France					
Iron ore	18 220 893	10 014 901	15 259 049	13 531 471	13 718 095
Burnt pyrites	4 948	5 375	11 603	11 452	23 894
Germany					
Iron ore	44 339 072	28 812 134	43 082 309	41 678 285	38 908 327
Burnt pyrites	—	7 087	3 077	4 513	28 207
Hungary	616 684	876 109	1 985 510	1 780 865	(a) 1 632 969
Iceland	(a) 44 167	34 404	36 318	42 846	19 251
Ireland, Republic of (a)	4 721	31 488	109	507	147
Italy	16 313 184	8 159 741	12 092 237	15 134 122	13 396 809
Netherlands	10 831 769	(a) 4 585 303	(a) 8 810 077	8 921 399	7 445 399
Norway	151 503	134 167	148 809	127 127	92 702
Poland	(a) 7 784 529	(a) 3 752 010	6 494 457	5 977 338	6 576 287
Romania					
Iron ore	5 003 811	1 597 033	2 848 921	2 186 674	2 023 063
Burnt pyrites	17 770	11 572	29 544	35 551	30 178
Serbia	2 092 208	1 397 755	1 860 593	(a) 1 624 795	(a) 465 170
Slovakia	4 802 516	4 499 385	5 796 813	5 103 229	5 404 215
Spain	(a) 6 479 890	(a) 4 237 845	(a) 5 874 304	(a) 5 143 562	4 505 772
Sweden					
Iron ore	71 441	41 087	55 078	51 334	44 285
Burnt pyrites	—	2 919	16 743	24 561	22 191
Switzerland					
Iron ore	6 145	1 445	5 382	12 537	12 046
Burnt pyrites	12 559	15 045	15 171	14 916	13 386
Turkey					
Iron ore	5 004 508	7 757 561	7 220 977	6 644 310	7 842 126
Burnt pyrites	17 092	14 097	—	—	—
United Kingdom	(a) 15 283 479	(a) 9 186 151	10 597 085	(a) 9 175 852	(a) 10 062 323

Note(s)

(a) Including burnt pyrites

Iron ore - EU35 trade in 2012



Production of pig iron

tonnes

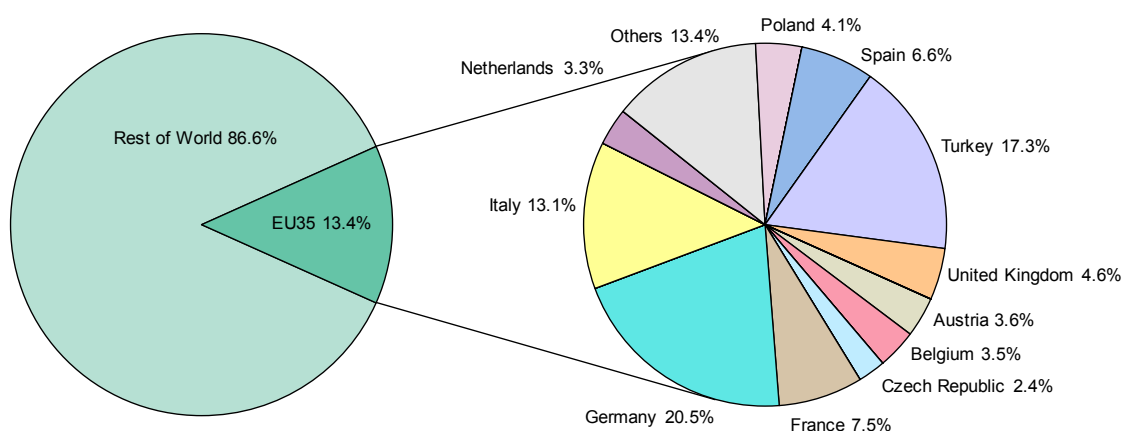
Country	2008	2009	2010	2011	2012
Austria	5 795 000	4 353 000	5 621 000	5 815 000	5 751 000
Belgium	6 977 000	3 087 000	4 688 000	4 700 000	4 073 000
Bulgaria	441 000	—	—	—	—
Czech Republic	4 737 000	3 483 000	3 987 000	4 137 000	3 935 207
Finland	2 942 946	2 042 000	2 564 000	2 600 000	2 461 000
France	11 371 879	8 104 318	10 136 827	9 697 535	9 531 844
Germany	29 105 000	20 104 000	28 560 000	27 943 000	27 046 000
Hungary	1 288 758	1 050 000	1 325 000	1 315 000	1 229 000
Italy	10 400 000	5 670 000	8 555 000	9 824 000	9 417 000
Netherlands	6 130 000	4 655 000	5 799 000	5 943 000	5 909 000
Norway	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Poland	4 933 781	2 983 500	3 637 995	3 974 930	3 943 968
Romania	2 957 715	1 576 679	1 723 418	1 595 000	1 580 000
Serbia	1 582 000	964 607	1 158 628	1 197 693	318 651
Slovakia	3 529 000	3 019 000	3 649 000	3 346 000	3 519 755
Spain	3 784 000	2 920 000	3 572 000	3 540 000	3 081 000
Sweden	3 708 000	1 966 000	3 447 000	3 240 000	2 805 000
Turkey	6 697 372	6 913 325	16 362 115	14 877 155	8 613 000
United Kingdom	10 136 800	7 671 100	7 233 000	6 625 000	7 183 100
EU35 Total	116 617 000	80 663 000	112 119 000	110 470 000	100 498 000

Note(s)

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

Crude steel

- Crude steel is the end product of smelting iron ore. It is produced in a wide variety of forms including slabs, coils, bars, rods and plates — depending on customer requirements. Steel is a ubiquitous product and has a multitude of applications. Alloying with other metals changes the fundamental properties of crude steel to meet specialised requirements. Recycled, or secondary, steel is a significant part of world total steel production.
- The majority of industrialised countries produce steel. China was the world's largest producer in 2012, with 46 per cent of the total world output. The second largest was Japan (seven per cent), followed by USA (six per cent), India and Russia (five per cent each).

EU35 Production of crude steel 2012

Production of crude steel

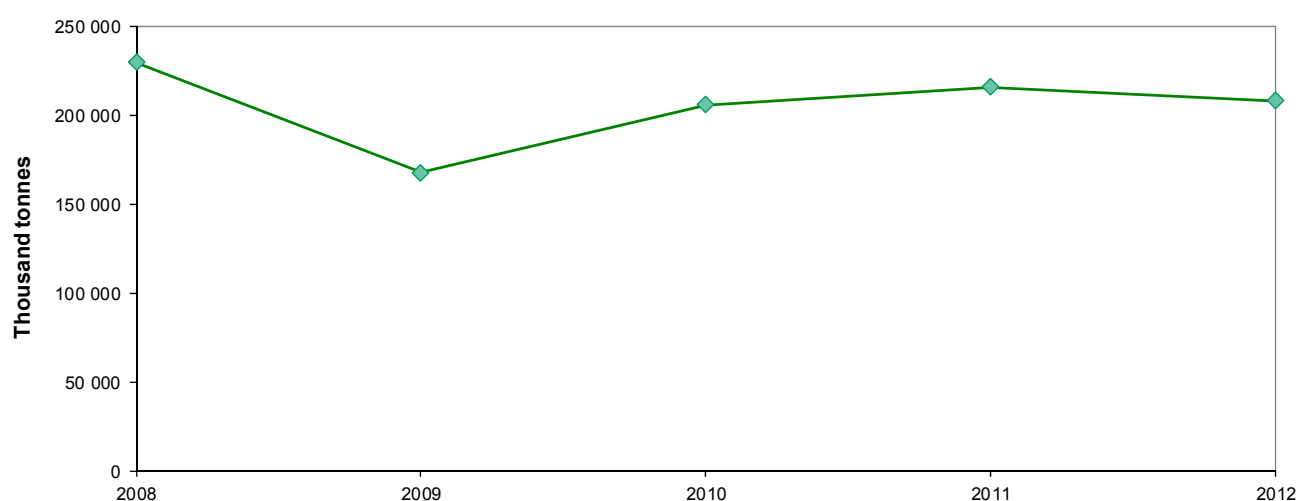
tonnes

Country	2008	2009	2010	2011	2012
Austria	7 594 000	5 662 000	7 206 000	7 474 000	7 421 000
Belgium	10 673 000	5 635 000	7 973 000	8 026 000	7 301 000
Bulgaria	1 330 000	726 000	744 000	835 000	633 000
Croatia	121 759	54 266	103 429	162 709	1 016
Czech Republic	6 387 000	4 594 000	5 180 000	5 583 000	5 072 082
Estonia	—	—	—	1	185
Finland	4 416 792	3 066 000	4 029 000	3 989 000	3 759 000
France	17 879 161	12 840 108	15 413 577	15 780 639	15 607 227
Germany	45 832 000	32 670 000	43 830 000	44 284 000	42 661 000
Greece	2 477 000	2 000 000	1 821 000	1 934 000	1 247 000
Hungary	2 097 000	1 403 000	1 678 000	1 733 000	1 543 000
Italy	30 590 000	19 848 000	25 750 000	28 735 000	27 257 000
Latvia	635 000	692 000	655 000	568 000	804 000
Luxembourg	2 582 000	2 141 000	2 548 000	2 521 000	2 214 000
Macedonia	344 866	299 332	344 866	348 576	225 224
Montenegro	201 623	90 404	48 272	61 164	28 161
Netherlands	6 853 000	5 194 000	6 651 000	6 937 000	6 879 000
Norway	560 000	595 000	520 000	620 000	683 000
Poland	9 727 325	7 128 482	7 993 025	8 776 458	8 539 302
Portugal	1 630 000	1 557 000	1 504 000	1 871 000	1 908 000
Romania	5 035 164	2 772 679	3 720 775	3 835 000	3 780 000
Serbia	1 662 000	1 054 336	1 254 386	1 304 954	346 000
Slovakia	4 489 000	3 747 000	4 580 000	4 242 000	4 403 447
Slovenia	642 000	430 000	606 000	648 000	632 000
Spain	18 640 000	14 358 000	16 343 000	15 504 000	13 639 000
Sweden	5 197 600	2 803 700	4 845 600	4 867 000	4 326 000
Switzerland	1 312 000	934 000	1 320 000	* 1 400 000	* 1 400 000
Turkey	26 809 050	25 303 741	29 029 789	34 103 000	35 885 000
United Kingdom	13 520 500	10 074 500	9 708 000	9 478 000	9 579 100
EU35 Total	229 239 000	167 674 000	205 400 000	215 622 000	207 774 000

Note(s)

(1) Unless otherwise indicated, these figures include production from scrap

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

EU35 Production of crude steel 2008 - 12

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 2012, followed by South Africa, India, Russia and Kazakhstan.

Production of ferro-alloys

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Ferro-molybdenum	4 500	4 000	4 000	4 000	4 000
Ferro-nickel	2 000	2 500	2 500	2 500	2 500
Ferro-vanadium	6 300	6 200	8 000	8 000	8 000
Bulgaria					
Ferro-silicon	6 000	* 3 000	—	—	—
Czech Republic					
Ferro-vanadium	* 2 800	* 1 900	* 3 400	* 4 600	* 5 700
Finland					
Ferro-chrome	233 550	123 310	238 000	231 000	229 000
France					
Ferro-manganese	46 600	46 000	138 100	130 500	* 131 000
Ferro-silico-manganese	60 200	54 100	62 400	63 400	* 64 000
Ferro-silicon	* 30 000	* 18 300	* 27 000	* 59 000	* 60 000
Silicon metal	* 118 000	* 80 000	* 112 000	* 128 000	* 130 000
Germany					
Ferro-chrome	26 960	13 667	* 17 300	* 17 800	* 17 800
Other ferro-alloys	* 5 000	6 336	* 9 200	* 9 000	* 9 000
Silicon metal	29 092	27 620	30 105	30 134	28 574
Greece					
Ferro-nickel	83 200	42 400	69 600	94 000	96 435
Iceland					
Ferro-silicon	107 882	112 992	114 230	120 076	131 818
Italy					
Ferro-manganese	* 30 000	* 20 000	* 25 000	* 25 000	* 27 000
Ferro-silico-manganese	87 000	56 000	108 000	145 000	110 000
Macedonia					
Ferro-silico-manganese	54 931	—	36 705	50 756	14 179
Ferro-nickel	15 026	12 000	14 413	17 292	19 247
Ferro-silicon	42 674	7 657	30 044	56 167	42 402
Norway					
Ferro-manganese	* 130 000	* 130 000	* 130 000	* 130 000	* 130 000
Ferro-silico-manganese	273 485	247 615	281 266	248 700	266 000
Ferro-silicon	185 344	233 974	* 200 000	170 102	203 886
Other ferro-alloys	* 60 000	* 150 000	* 150 000	* 150 000	* 150 000
Silicon metal	180 135	169 643	* 170 000	* 170 000	* 170 000
Poland					
Ferro-manganese	8 475	1 736	800	800	800
Ferro-silico-manganese	25 061	72	100	400	200
Ferro-silicon	56 031	9 673	53 206	72 668	79 400
Other ferro-alloys	2 948	4 190	200	300	300
Romania					
Ferro-chrome	6 179	15 377	14 353	—	—
Ferro-silico-manganese	9 979	—	20 605	* 30 000	* 30 000
Slovakia					
Ferro-silico-manganese	59 940	32 000	34 960	25 036	50 089
Ferro-silicon	10 844	4 600	26 419	32 304	32 726
Other ferro-alloys	61 194	22 250	38 860	18 575	12 862
Spain					
Ferro-manganese	* 161 000	* 60 100	* 134 000	* 108 000	* 108 000
Ferro-silico-manganese	* 158 000	* 59 200	* 132 000	* 164 000	* 165 000
Ferro-silicon	* 74 000	* 44 000	* 64 400	* 57 000	* 57 000
Silicon metal	* 33 000	* 23 000	* 32 500	* 43 000	45 000

Production continued					tonnes
Country	2008	2009	2010	2011	2012
Sweden					
Ferro-chrome	118 700	31 100	64 400	80 140	35 800
Turkey					
Ferro-chrome	75 840	41 028	* 60 000	* 60 000	* 60 000
Ferro-silico-chrome	6 094	2 903	* 3 000	* 3 000	* 3 000

Exports of iron, steel and ferro-alloys

					tonnes
Country	2008	2009	2010	2011	2012
Austria					
Pig iron	7 539	2 354	4 476	3	74
Ferro-alloys	7 541	5 953	2 618	1 690	2 291
Silicon metal	5 412	4 795	7 403	597	1 643
Ingots, blooms, billets	284 063	187 410	190 343	293 647	238 922
Scrap	1 351 725	1 067 926	1 034 398	950 865	1 008 503
Belgium					
Pig iron	283 034	160 120	254 854	255 067	232 381
Sponge and powder	20 732	14 655	35 395	10 029	14 734
Ferro-chrome	38 927	20 403	25 965	23 538	26 098
Ferro-silico-chrome	12 463	15 645	5 849	1 549	666
Ferro-manganese	24 024	9 915	26 544	41 161	43 319
Ferro-silico-manganese	40 777	31 374	48 652	47 762	10 280
Ferro-molybdenum	17 759	16 396	19 593	20 134	21 760
Ferro-silicon	54 905	47 214	23 071	33 676	25 595
Other ferro-alloys	12 686	2 988	4 137	16 124	8 045
Silicon metal	6 673	5 954	8 522	8 396	2 327
Ingots, blooms, billets	908 563	279 680	487 535	484 510	336 540
Scrap	3 250 800	3 245 159	3 754 403	3 533 560	3 618 789
Bulgaria					
Pig iron	23 553	1 420	1 141	854	1 249
Ferro-silico-manganese	288	...	19	1	136
Ferro-silicon	2 076	2 890	980	248	1 563
Other ferro-alloys	550	9 867	2 115	312	907
Ingots, blooms, billets	85 466	54 115	30 327	24 822	14 564
Scrap	740 414	510 997	949 000	850 898	730 749
Croatia					
Ferro-alloys	3 286	3 397	6 526	5 254	2 368
Ingots, blooms, billets	3 486	7	2 495	30 004	4 041
Scrap	357 487	302 085	357 015	517 438	516 600
Cyprus					
Scrap	72 106	80 349	96 654	138 529	136 351
Czech Republic					
Pig iron	30 457	24 041	65 473	45 677	82 769
Ferro-silicon	8 780	4 285	9 806	7 354	7 571
Ferro-vanadium	2 830	1 868	3 440	4 603	5 737
Other ferro-alloys	13 897	12 274	23 873	6 732	9 311
Silicon metal	1 375	783	847	584	74
Ingots, blooms, billets	500 423	222 780	320 821	356 146	292 066
Scrap	1 792 889	1 442 865	1 814 398	2 011 915	2 042 131
Denmark					
Pig iron	89	53	239	1 102	1 681
Ferro-silicon	48	55	77	164	1 043
Other ferro-alloys	491	291	54	43	48
Ingots, blooms, billets	16 775	13 287	19 143	21 926	21 050
Scrap	1 372 424	1 335 754	1 596 485	1 554 808	1 359 467
Estonia					
Ferro-alloys	153	100	124	142	1 012
Scrap	650 099	384 299	512 766	563 124	631 831

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Finland					
Pig iron	14 070	11 317	2 564	373	14 459
Ferro-chrome	37 709	61 319	126 713	97 322	104 829
Other ferro-alloys	110	308	560	211	217
Ingots, blooms, billets	281 325	253 440	263 863	219 129	127 904
Scrap	308 047	276 010	229 680	341 937	361 107
France					
Pig iron	88 462	151 699	52 439	53 736	44 010
Sponge and powder	14 698	5 261	18 917	20 857	9 484
Ferro-chrome	2 098	2 217	2 447	2 035	2 837
Ferro-silico-magnesium	272	844	1 259	1 222	2 381
Ferro-manganese	2 457	2 882	2 200	2 554	1 704
Ferro-silico-manganese	42 260	41 324	51 330	54 023	51 068
Ferro-molybdenum	374	379	548	802	972
Ferro-nickel	46	10 496	6 104	1 042	787
Ferro-niobium	984	261	505	220	186
Ferro-silicon	73 824	51 676	77 144	84 879	74 961
Ferro-titanium and ferro-silico-titanium	1 493	844	1 869	1 985	1 660
Other ferro-alloys	28 430	10 077	37 932	33 076	45 776
Silicon metal	...	231	261	298	85
Ingots, blooms, billets	2 830 986	1 814 051	1 858 111	2 088 739	2 232 987
Scrap	6 028 712	5 402 426	6 665 264	6 240 254	6 233 179
Germany					
Pig iron	153 917	86 491	180 542	183 310	171 347
Sponge and powder	95 846	28 183	56 763	43 160	35 370
Ferro-chrome	36 856	27 831	54 956	45 048	32 760
Ferro-silico-magnesium	6 342	1 113	1 718	2 355	2 062
Ferro-manganese	11 802	9 043	12 387	22 690	11 811
Ferro-silico-manganese	10 354	4 436	3 377	17 756	12 006
Ferro-molybdenum	3 858	3 229	3 174	4 440	2 815
Ferro-nickel	1 036	1 725	7 869	5 775	391
Ferro-niobium	1 057	321	538	237	228
Ferro-phosphorus	477	475	1 452	1 233	1 250
Ferro-silicon	63 858	63 214	95 683	81 464	67 351
Ferro-titanium and ferro-silico-titanium	4 237	1 662	4 180	5 350	4 687
Ferro-tungsten and ferro-silico-tungsten	460	339	640	402	417
Ferro-vanadium	413	755	659	391	226
Other ferro-alloys	28 533	8 210	10 799	8 722	3 952
Silicon metal	—	20 207	29 309	33 077	49 693
Ingots, blooms, billets	2 047 223	1 655 376	2 150 091	2 150 120	1 712 813
Scrap	8 268 662	7 275 257	9 175 802	9 859 197	9 658 280
Greece					
Pig iron	67	351	2 009	2 650	2
Ferro-alloys	3 671	377	999	294	11 299
Ingots, blooms, billets	162 819	102 721	143 318	139 537	64 523
Scrap	36 018	34 840	66 989	59 592	57 511
Hungary					
Ferro-alloys	47	...	104	207	272
Silicon metal	...	...	...	4 317	2 887
Ingots, blooms, billets	90 282	4 315	9 274	44 796	7 260
Scrap	691 805	636 805	1 132 142	1 272 473	1 171 610
Iceland					
Ferro-silicon	105 868	112 993	114 231	120 076	131 818
Other ferro-alloys	1 729	4 595	5 603	6	0
Silicon metal	—	200	—	—	—
Scrap	60 287	38 075	37 328	38 954	28 581
Ireland, Republic of					
Ingots, blooms, billets	924	547	262	9 240	510
Scrap	485 387	428 416	484 871	609 985	517 800

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Italy					
Pig iron	36 137	61 761	38 026	22 412	51 911
Sponge and powder	615	452	729	1 534	3 904
Ferro-chrome	4 593	2 066	5 020	5 639	3 399
Ferro-silico-magnesium	168	163	33	27	114
Ferro-manganese	12 890	7 457	9 186	9 761	11 603
Ferro-silico-manganese	6 882	4 322	4 316	3 890	15 215
Ferro-molybdenum	277	1 266	149	41	1 048
Ferro-nickel	123	418	176	215	52
Ferro-silicon	7 094	6 395	6 329	8 642	7 741
Other ferro-alloys	3 072	2 523	863	951	968
Silicon metal	6 007	3 200	3 284	4 293	1 621
Ingots, blooms, billets	964 245	570 380	909 562	908 493	831 477
Scrap	387 528	325 026	422 731	317 626	324 451
Latvia					
Ferro-chrome	...	204	4 051	9 502	30 189
Ferro-manganese	1 343	402	794	1 132	515
Ferro-silico-manganese	...	...	6 247	16 563	20 152
Ferro-silicon	...	1	11 029	23 706	13 874
Ingots, blooms, billets	4 010	2 323	2 442	5 045	72 535
Scrap	388 456	213 766	396 794	563 192	507 285
Lithuania					
Ferro-alloys	11 188	3 093	104	141	3 280
Scrap	659 646	422 436	595 721	664 225	562 585
Luxembourg					
Ingots, blooms, billets	49 843	16 793	10 953	37 393	27 521
Scrap	504 067	114 924	165 832	133 133	102 625
Macedonia					
Ferro-manganese	...	773	50	4	209
Ferro-silico-manganese	...	10 938	31 344	46 254	22 482
Ferro-nickel	...	(a)* 91 800	67 384	77 107	89 302
Ferro-silicon	(a)* 257 000	16 621	19 491	52 684	41 131
Scrap	104 326	59 407	71 830	83 784	88 861
Malta					
Scrap	25 379	27 775	29 498	38 408	34 244
Montenegro					
Ingots, blooms, billets	32 159	15 423	18 775	6 866	9 199
Scrap	10 229	14 442	28 570	55 204	43 998
Netherlands					
Pig iron	170 468	89 714	111 189	133 861	184 975
Ferro-chrome	103 036	62 439	170 489	242 310	232 408
Ferro-silico-chrome	15	* 300	448	14 816	31 811
Ferro-manganese	65 203	33 193	35 353	66 053	57 013
Ferro-silico-manganese	17 571	37 593	66 085	62 737	99 228
Ferro-molybdenum	3 150	1 894	6 462	6 544	8 031
Ferro-nickel	5 086	3 564	6 264	7 514	10 306
Ferro-niobium	1 736	925	1 175	2 070	1 280
Ferro-silicon	71 762	87 348	219 244	238 469	226 217
Ferro-titanium and ferro-silico-titanium	3 046	2 730	10 510	13 620	10 357
Ferro-tungsten and ferro-silico-tungsten	1 168	476	727	1 155	990
Ferro-vanadium	2 274	926	1 909	2 343	1 772
Other ferro-alloys	22 603	* 33 000	50 903	16 535	15 559
Silicon metal	15 547	46 466	69 896	65 055	86 097
Ingots, blooms, billets	806 999	157 861	849 018	1 553 519	1 601 063
Scrap	4 523 660	* 2 835 000	5 541 773	5 692 223	5 635 229
Norway					
Pig iron (a)	* 110 100	* 75 000	* 118 000	* 110 000	* 91 000
Sponge and powder	798	286	678	169	1 269
Ferro-chrome	(a)* 80	—	(a)* 30	(a)* 65	(a)* 90
Ferro-manganese (a)	* 354 000	* 203 000	* 332 000	* 379 000	* 370 000
Ferro-silico-manganese	257 804	200 279	245 095	246 808	277 070
Ferro-silicon	209 669	115 682	214 643	246 711	244 224
Other ferro-alloys	57 777	16 247	2 479	47	9
Silicon metal	155 385	109 254	162 649	154 191	161 468
Ingots, blooms, billets	62 625	106 505	64 474	92 475	163 423
Scrap	269 370	228 138	337 675	289 943	345 558

Iron, Steel and Ferro-Alloys

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Poland					
Pig iron	5 189	10 543	17 340	21 122	79 889
Sponge and powder	3 838	4 448	5 293	16 519	7 185
Ferro-manganese and ferro-silico-manganese	37 978	21 640	10 113	3 284	5 844
Ferro-silicon	52 976	16 401	59 845	76 121	72 741
Other ferro-alloys	2 932	2 655	7 452	8 135	4 919
Silicon metal	893	1 033	845	1 390	1 674
Ingots, blooms, billets	1 580 450	664 035	490 919	846 908	618 682
Scrap	1 368 952	978 862	1 334 069	1 838 699	1 955 438
Portugal					
Pig iron	1	51	18 502	21 606	18 330
Ferro-alloys	546	255	1 746	2 392	793
Ingots, blooms, billets	164 425	136 284	172 983	119 353	54 844
Scrap	172 133	216 037	303 013	239 842	236 115
Romania					
Sponge and powder	18 697	18 807	24 454	29 320	25 038
Ferro-chrome	161	3 543	14 234	10 996	8 577
Ferro-manganese	701	1 801	45	26	195
Ferro-silico-manganese	5 793	8 120	19 087	34 387	4 171
Ferro-niobium	123	72	53	66	136
Ferro-silicon	444	727	24	0	—
Other ferro-alloys	197	130	223	101	1 716
Ingots, blooms, billets	220 136	51 644	196 302	267 543	199 986
Scrap	1 985 977	2 565 443	2 519 237	2 348 565	1 908 069
Serbia					
Pig iron	81 427	71 778	70 090	46 629	374 860
Ingots, blooms, billets	632	46 587	20 547	111 080	187 578
Scrap	345 813	328 763	416 713	357 778	372 846
Slovakia					
Pig iron	20 676	29 779	70 588	26 976	29 527
Ferro-chrome	10 830	4 029	10 029	11 189	12 893
Ferro-manganese	48 747	19 204	14 032	10 229	4 308
Ferro-silico-manganese	55 873	37 792	35 764	28 660	44 202
Ferro-molybdenum	222	119	78	2 416	172
Ferro-silicon	21 352	15 823	19 656	31 004	26 389
Other ferro-alloys	4 384	1 129	3 390	3 226	4 940
Ingots, blooms, billets	241 811	255 917	631 135	221 697	413 032
Scrap	525 777	318 290	556 952	651 135	430 539
Slovenia					
Pig iron	24 639	4 412	10 507	21 823	19 227
Ferro-chrome	3 419	3 648	5 320	4 757	12 373
Ferro-manganese	1 090	1 056	1 769	1 317	3 076
Ferro-silico-manganese	1 243	1 938	5 959	4 268	3 281
Ferro-silicon	20 826	6 628	7 280	13 397	9 241
Ferro-titanium and ferro-silico-titanium	521	50	124	123	53
Other ferro-alloys	6 243	3 297	4 214	4 554	5 193
Silicon metal	1 149	3 049	5 568	4 753	764
Ingots, blooms, billets	21 006	12 296	17 320	39 269	33 034
Scrap	199 016	284 958	343 716	409 401	417 264
Spain					
Pig iron	9 747	4 772	2 998	7 023	11 831
Sponge and powder	4 763	2 566	2 658	3 233	3 000
Ferro-chrome	4 768	367	1 025	1 181	1 359
Ferro-manganese	65 330	29 403	52 296	37 866	42 486
Ferro-silico-manganese	34 307	25 859	58 097	65 469	66 101
Ferro-molybdenum	45	242	359	7	55
Ferro-silicon	9 562	5 939	12 854	12 952	20 235
Other ferro-alloys	393	208	2 191	2 326	1 901
Silicon metal	16 008	5 571	18 463	21 864	20 690
Ingots, blooms, billets	310 671	261 758	337 566	194 482	134 781
Scrap	214 913	302 465	277 401	431 394	737 203

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Sweden					
Pig iron	62 588	141 261	146 027	133 387	109 644
Sponge and powder	19 844	296 251	12 335	313 081	297 427
Ferro-chrome	3 534	35 886	51 010	2 752	2 525
Ferro-manganese and ferro-silico-manganese	3 620	2 423	3 517	3 581	2 835
Ferro-molybdenum	301	193	340	375	294
Ferro-phosphorus	1 370	364	582	448	479
Ferro-silicon	2 616	3 004	6 905	6 903	15 630
Ferro-vanadium	112	250	50	57	64
Other ferro-alloys	895	330	498	665	950
Silicon metal	2 458	968	2 337	1 274	1 206
Ingots, blooms, billets	102 086	58 631	261 273	235 814	450 860
Scrap	1 449 311	1 439 126	1 352 399	1 484 197	1 543 542
Switzerland					
Sponge and powder	2 126	1 564	2 191	981	1 013
Ferro-alloys	642	943	1 191	1 299	848
Ingots, blooms, billets	65 257	48 349	66 642	85 201	70 375
Scrap	636 462	565 415	623 910	630 837	626 757
Turkey					
Pig iron	10 372	10 616	8 028	9 357	7 723
Sponge and powder	520	219	1 326	7 581	1 422
Ferro-chrome	39 324	75 236	74 570	76 255	75 555
Ferro-manganese	2 466	1 614	4 410	3 536	2 003
Ferro-silico-manganese	677	2 247	2 362	2 172	1 237
Ferro-silicon	1 464	1 280	4 619	5 807	2 653
Other ferro-alloys	1 075	1 059	507	4 886	795
Ingots, blooms, billets	2 501 135	2 431 211	3 716 586	2 459 563	2 985 209
Scrap	77 654	66 673	94 498	105 914	95 152
United Kingdom					
Pig iron	2 523	27 765	4 339	2 074	3 775
Sponge and powder	2 794	3 103	2 938	3 775	33 831
Ferro-alloys	40 986	28 899	45 314	43 918	49 357
Ferro-chrome	1 376	1 475	2 403	1 853	2 288
Ferro-silico-chrome	9	50	22	364	72
Ferro-silico-magnesium	976	458	366	338	327
Ferro-manganese	1 210	963	8 361	819	658
Ferro-silico-manganese	49	65	52	132	7 503
Ferro-molybdenum	11 283	7 634	11 248	12 948	12 421
Ferro-nickel	81	18	15	49	539
Ferro-niobium	58	52	224	179	257
Ferro-phosphorus	45	312	667	766	562
Ferro-silicon	3 250	3 338	2 958	6 594	4 659
Ferro-titanium and ferro-silico-titanium	18 557	13 098	15 197	17 662	18 040
Ferro-tungsten and ferro-silico-tungsten	31	1	4	3	20
Ferro-vanadium	79	64	24	52	31
Other ferro-alloys	3 981	1 373	3 774	2 158	1 979
Silicon metal	15 132	7 753	2 901	3 662	3 027
Ingots, blooms, billets	3 348 794	2 118 701	1 137 160	668 885	1 817 820
Scrap	6 616 708	6 007 656	7 507 853	7 744 411	7 160 639

Note(s)

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

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

Imports of iron, steel and ferro-alloys

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Pig iron	43 663	30 084	25 355	30 367	18 706
Sponge and powder	56 471	13 980	13 537	18 585	90 782
Ferro-chrome	47 748	20 400	29 355	38 422	35 000
Ferro-silico-magnesium	430	79	132	150	97
Ferro-manganese	36 491	18 962	17 840	21 671	21 540
Ferro-silico-manganese	22 322	17 927	22 976	19 931	18 862
Ferro-molybdenum	1 552	801	742	1 402	1 503
Ferro-nickel	61	1	...	973	906
Ferro-niobium	1 125	665	1 061	1 191	1 865
Ferro-phosphorus	2 011	1 095	1 232	2 497	610
Ferro-silicon	27 850	12 825	27 063	33 709	38 402
Ferro-titanium and ferro-silico-titanium	879	388	471	630	607
Ferro-tungsten and ferro-silico-tungsten	1 277	208	552	715	624
Ferro-vanadium	289	32	166	65	300
Other ferro-alloys	1 590	1 764	3 549	4 806	3 067
Silicon metal	15 601	7 288	11 497	10 180	7 189
Ingots, blooms, billets	191 426	46 762	159 527	186 929	196 328
Scrap	1 629 170	1 196 327	991 574	1 016 301	1 007 906
Belgium					
Pig iron	547 962	281 872	331 652	320 083	286 145
Sponge and powder	22 005	19 389	39 503	54 212	42 889
Ferro-chrome	378 017	185 381	263 715	248 006	275 926
Ferro-silico-chrome	15 483	—	1 950	10 437	19 741
Ferro-silico-magnesium	2 879	1 292	1 992	1 716	1 258
Ferro-manganese	83 610	21 327	48 471	69 017	70 732
Ferro-silico-manganese	63 577	36 931	72 195	77 001	28 938
Ferro-molybdenum	2 339	2 215	2 160	3 261	3 437
Ferro-nickel	89 430	46 248	48 017	64 242	40 217
Ferro-niobium	1 530	1 089	1 890	1 598	1 687
Ferro-phosphorus	10 421	3 124	2 612	1 459	1 227
Ferro-silicon	118 585	62 888	92 785	105 445	87 805
Ferro-titanium and ferro-silico-titanium	5 572	2 161	2 926	2 377	2 525
Ferro-tungsten and ferro-silico-tungsten	158	159	229	93	249
Ferro-vanadium	336	246	214	146	263
Other ferro-alloys	6 626	3 363	7 039	8 777	7 451
Silicon metal	20 015	18 995	23 566	21 688	10 440
Ingots, blooms, billets	2 536 024	1 966 055	2 554 975	2 916 336	2 458 279
Scrap	4 214 915	3 678 867	4 726 992	4 634 651	4 330 264
Bulgaria					
Pig iron	27 941	6 736	14 781	17 521	13 807
Sponge and powder	1 282	14 572	317	294	97
Ferro-chrome	656	182	356	578	489
Ferro-silico-magnesium	405	180	164	183	177
Ferro-manganese	4 206	3 137	3 137	6 280	3 816
Ferro-silico-manganese	4 325	3 479	4 291	6 324	6 966
Ferro-silicon	3 331	1 152	2 520	3 246	4 203
Ferro-titanium and ferro-silico-titanium	292	34	72	175	173
Ferro-vanadium	97	87	91	134	125
Other ferro-alloys	1 112	732	732	4 319	5 145
Ingots, blooms, billets	567 381	306 020	258 743	411 534	300 224
Scrap	237 055	202 276	269 483	230 401	113 497
Croatia					
Pig iron	15 031	8 420	10 343	14 072	12 353
Ferro-alloys	4 790	2 239	4 051	2 490	1 223
Ingots, blooms, billets	20 077	19 396	6 514	1 943	14 199
Scrap	19 400	10 628	30 395	44 335	4 875

Imports continued					tonnes
Country	2008	2009	2010	2011	2012
Czech Republic					
Pig iron	111 872	47 666	54 625	76 416	67 036
Sponge and powder	24 791	10 006	15 391	24 059	18 754
Ferro-chrome	26 043	14 715	16 962	10 933	9 658
Ferro-silico-magnesium	1 402	564	820	1 061	699
Ferro-manganese	33 704	23 630	26 204	25 281	24 826
Ferro-silico-manganese	48 962	34 418	40 732	41 411	39 572
Ferro-molybdenum	2 049	949	1 868	2 401	3 415
Ferro-nickel	3	2	96	136	47
Ferro-niobium	394	183	275	310	360
Ferro-phosphorus	716	410	645	650	451
Ferro-silicon	37 230	23 936	31 908	33 418	29 475
Ferro-titanium and ferro-silico-titanium	482	160	239	317	212
Ferro-vanadium	578	299	482	472	526
Other ferro-alloys	4 425	2 709	3 012	2 749	2 358
Silicon metal	5 826	4 408	5 805	5 809	4 910
Ingots, blooms, billets	525 598	220 524	651 182	322 206	352 697
Scrap	502 256	377 942	410 647	472 576	475 327
Denmark					
Pig iron	14 064	10 299	10 263	17 316	17 014
Sponge and powder	3 602	1 742	3 229	3 586	8 505
Ferro-silico-magnesium	841	16	114	8	32
Ferro-manganese	145	101	139	121	248
Ferro-silicon	1 702	569	2 864	3 328	3 655
Other ferro-alloys	1 559	448	149	98	87
Ingots, blooms, billets	672 439	328 893	538 503	609 342	420 037
Scrap	392 453	269 841	337 192	242 848	208 231
Estonia					
Ferro-niobium	840	220	438	374	411
Ferro-silicon	52	2	21	149	61
Other ferro-alloys	222	83	213	79	102
Scrap	37 774	9 267	8 434	12 230	8 305
Finland					
Pig iron	42 681	18 097	36 120	31 235	21 728
Sponge and powder	942 664	493 087	872 476	1 871	1 102
Ferro-chrome	11 182	5 094	7 055	8 274	33 392
Ferro-silico-magnesium	880	309	190	158	220
Ferro-manganese	15 709	5 985	10 595	11 784	10 170
Ferro-silico-manganese	34 139	20 642	30 204	30 169	* 22 000
Ferro-molybdenum	1 730	584	1 316	1 717	* 1 200
Ferro-nickel	50 294	17 098	25 746	40 962	* 51 000
Ferro-niobium	757	318	629	849	874
Ferro-phosphorus	380	285	543	499	325
Ferro-silicon	29 740	21 437	31 395	30 207	34 361
Ferro-titanium and ferro-silico-titanium	1 857	710	1 043	1 843	942
Ferro-vanadium	315	91	235	193	134
Other ferro-alloys	2 997	1 028	4 648	4 839	1 545
Silicon metal	1 638	548	1 390	1 281	845
Ingots, blooms, billets	11 114	30 206	18 268	17 119	10 111
Scrap	596 792	467 642	754 398	710 558	46 094

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
France					
Pig iron	202 077	115 722	139 186	160 336	140 321
Sponge and powder	89 809	26 695	52 795	84 787	38 973
Ferro-chrome	111 584	71 570	111 080	99 240	106 591
Ferro-silico-magnesium	1 969	1 375	1 047	1 102	483
Ferro-manganese	69 464	33 948	44 405	43 245	37 724
Ferro-silico-manganese	54 004	34 758	35 405	44 217	58 938
Ferro-molybdenum	5 637	3 263	3 720	4 857	4 441
Ferro-nickel	5 887	12 709	7 724	16 270	4 818
Ferro-niobium	3 266	1 183	2 195	2 225	1 608
Ferro-phosphorus	2 698	1 670	2 656	2 227	1 833
Ferro-silicon	61 740	30 913	51 906	65 306	54 824
Ferro-titanium and ferro-silico-titanium	8 293	2 647	5 457	5 756	3 958
Ferro-tungsten and ferro-silico-tungsten	666	247	343	378	303
Ferro-vanadium	1 575	819	1 065	1 113	811
Other ferro-alloys	24 885	10 711	16 247	15 035	8 602
Silicon metal	23 885	15 243	19 135	19 373	27 828
Ingots, blooms, billets	1 747 005	1 113 710	1 807 094	2 047 778	1 728 612
Scrap	3 241 199	2 407 619	2 450 993	2 682 258	2 732 380
Germany					
Pig iron	713 470	402 132	421 287	589 302	614 096
Sponge and powder	90 069	294 393	500 970	326 097	210 328
Ferro-chrome	544 619	305 008	454 005	447 242	392 515
Ferro-silico-chrome	12 886	8 648	29 047	18 334	8 573
Ferro-silico-magnesium	11 536	5 914	2 972	6 208	4 528
Ferro-manganese	209 083	122 063	203 200	232 613	192 817
Ferro-silico-manganese	156 484	111 008	185 067	208 913	206 967
Ferro-molybdenum	17 434	12 484	16 375	18 760	16 934
Ferro-nickel	177 851	127 087	192 394	155 881	139 658
Ferro-niobium	6 269	4 047	5 923	6 579	6 297
Ferro-phosphorus	4 801	1 332	6 067	5 137	5 587
Ferro-silicon	215 374	146 127	272 466	298 352	248 310
Ferro-titanium and ferro-silico-titanium	13 824	5 461	8 754	9 818	9 912
Ferro-tungsten and ferro-silico-tungsten	2 182	1 366	787	977	1 010
Ferro-vanadium	5 333	3 421	5 034	5 305	5 096
Other ferro-alloys	12 109	6 325	11 783	15 982	21 651
Silicon metal	225 185	183 516	255 977	241 565	232 640
Ingots, blooms, billets	2 970 042	1 171 865	1 611 091	2 401 066	1 768 289
Scrap	5 675 167	3 865 110	5 305 194	6 658 407	5 737 878
Greece					
Pig iron	9 185	9 107	4 427	9 127	470
Sponge and powder	7 709	9 685	5 772	3 302	429
Ferro-chrome	1 146	916	693	1 217	1 304
Ferro-manganese	1 753	1 216	837	271	203
Ferro-silico-manganese	24 943	8 023	18 515	12 695	10 971
Ferro-silicon	8 170	4 569	4 888	4 361	2 924
Other ferro-alloys	504	170	849	167	156
Silicon metal	2 312	906	1 426	1 746	1 212
Ingots, blooms, billets	171 231	159 350	28 092	71 878	17 546
Scrap	1 485 316	1 159 166	1 008 235	935 510	413 394
Hungary					
Pig iron	12 951	3 403	7 158	5 662	5 527
Sponge and powder	1 043	425	756	638	479
Ferro-chrome	232	150	187	223	279
Ferro-manganese	4 318	2 037	12 015	16 011	12 255
Ferro-silico-manganese	4 661	922	724	1 785	225
Ferro-molybdenum	183	73	85	105	108
Ferro-niobium	135	...	75	141	111
Ferro-phosphorus	...	...	652	60	111
Ferro-silicon	5 232	3 100	3 630	3 999	2 969
Other ferro-alloys	12 843	15 557	569	312	410
Silicon metal	2 184	2 589	4 010	7 832	5 619
Ingots, blooms, billets	273 585	104 855	30 505	240 299	565 955
Scrap	146 494	34 357	56 974	68 566	34 219

Imports continued					tonnes
Country	2008	2009	2010	2011	2012
Iceland					
Pig iron	1 128	1 333	1 148	841	844
Ferro-alloys	113	5 641	6 838	204	727
Silicon metal	1 614	237	4 366	3 204	4 816
Scrap	1 164	643	11 545	4 680	7
Ireland, Republic of					
Pig iron	2 359	1 202	1 345	947	1 182
Sponge and powder	997	955	989	1 176	1 216
Ferro-chrome	31	53	89	128	100
Other ferro-alloys	338	683	296	233	139
Ingots, blooms, billets	5 459	5 373	7 332	5 423	4 952
Scrap	4 206	4 388	4 030	3 310	6 565
Italy					
Pig iron	2 238 037	895 818	1 018 615	1 288 014	1 106 558
Sponge and powder	396 660	174 364	278 989	540 005	551 034
Ferro-chrome	389 002	296 813	390 374	414 410	416 091
Ferro-silico-chrome	243	—	97	841	3
Ferro-silico-magnesium	7 422	1 759	1 943	1 683	2 125
Ferro-manganese	96 771	46 537	71 406	86 512	82 933
Ferro-silico-manganese	186 135	119 670	158 540	176 855	167 310
Ferro-molybdenum	8 318	3 998	6 141	8 541	9 547
Ferro-nickel	104 198	78 383	98 168	116 806	128 877
Ferro-niobium	2 733	1 395	2 751	2 521	2 619
Ferro-phosphorus	488	550	631	414	365
Ferro-silicon	122 236	89 909	137 031	160 561	118 880
Ferro-titanium and ferro-silico-titanium	3 861	4 462	3 876	3 819	3 139
Ferro-tungsten and ferro-silico-tungsten	578	300	247	252	269
Ferro-vanadium	2 445	1 158	1 901	2 330	2 367
Other ferro-alloys	8 294	4 267	7 325	9 198	7 117
Silicon metal	57 493	27 402	48 392	53 131	41 277
Ingots, blooms, billets	5 311 325	2 655 726	3 681 439	3 662 856	3 169 000
Scrap	5 705 462	3 321 387	4 609 403	5 752 270	5 271 612
Latvia					
Pig iron	56 964	38 140	45 454	2 244	2 653
Sponge and powder	19	14 931	4 460	565	104
Ferro-chrome	140	588	6 995	9 782	17 179
Ferro-manganese	10 334	2 345	4 090	1 480	584
Ferro-silico-manganese	23 477	14 722	18 898	17 085	25 026
Ferro-silicon	18 466	15 085	24 660	25 992	15 963
Other ferro-alloys	132	415	158	245	199
Silicon metal	467	783	1 553	981	1 134
Ingots, blooms, billets	146 505	226 967	206 428	402 711	3 861
Scrap	412 240	214 564	443 817	366 039	923 037
Lithuania					
Ferro-chrome	9 634	2 842	32	35	42
Ferro-molybdenum	2	2	—	3	936
Ferro-nickel	0	...	...	674	986
Ferro-silicon	374	39	102	40	40
Other ferro-alloys	81	71	59	42	1 464
Ingots, blooms, billets	9 661	1 229	4 270	5 384	4 536
Scrap	64 462	29 805	35 270	71 858	59 444
Luxembourg					
Ferro-manganese	5 478	1 132	910	1 317	1 193
Ferro-silico-manganese	28 617	25 617	27 116	29 053	29 843
Ferro-niobium	473	166	192	226	212
Ferro-silicon	8 115	2 846	3 428	3 828	3 642
Ferro-vanadium	357	150	292	328	298
Other ferro-alloys	952	432	614	851	797
Ingots, blooms, billets	1 004 405	364 945	407 419	370 786	237 293
Scrap	3 880 672	1 829 754	2 693 481	2 632 849	2 259 684
Macedonia					
Pig iron	2 609	1 732	1 823	1 382	1 075
Ferro-alloys	3 402	1 618	2 401	5 970	3 251
Ingots, blooms, billets	482 294	157 566	145 509	97 889	100 791
Scrap	255 543	7 375	292 049	318 612	157 401

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Montenegro					
Pig iron	17 864	13 954	322	1 150	119
Ferro-chrome	356	103	242	395	249
Ferro-silico-manganese	2 921	1 664	1 663	891	306
Ferro-silicon	697	271	288	187	402
Other ferro-alloys	66	24	55	171	38
Scrap	138 502	54 801	19 950	27 396	11 306
Netherlands					
Pig iron	292 867	122 185	98 575	213 530	190 874
Sponge and powder	253 882	109 768	378 111	402 025	416 889
Ferro-chrome	275 995	40 931	93 919	123 284	76 613
Ferro-silico-chrome	1	1 394	2 838	525	353
Ferro-manganese	96 135	39 045	86 504	89 805	84 529
Ferro-silico-manganese	70 108	29 335	57 967	80 905	21 583
Ferro-molybdenum	8 566	2 868	4 643	7 753	4 548
Ferro-nickel	17 602	4 274	19 378	25 849	20 222
Ferro-niobium	2 074	949	920	1 354	1 397
Ferro-silicon	114 290	79 461	178 138	152 194	181 213
Ferro-titanium and ferro-silico-titanium	6 781	1 860	11 922	13 484	14 189
Ferro-tungsten and ferro-silico-tungsten	1 572	554	1 168	1 298	726
Ferro-vanadium	2 042	519	2 014	1 890	1 710
Other ferro-alloys	30 407	6 951	11 263	17 558	7 372
Silicon metal	57 446	41 740	82 599	75 664	81 148
Ingots, blooms, billets	283 834	110 561	536 157	1 335 875	1 040 244
Scrap	1 842 597	* 1 135 000	1 988 278	2 188 452	2 408 332
Norway					
Pig iron	11 198	10 639	1 498	10 709	9 749
Sponge and powder	1 589	292	575	39 665	36 216
Ferro-chrome	929	1 162	1 311	1 534	1 293
Ferro-manganese	7 448	6 608	5 303	5 254	1 200
Ferro-silico-manganese	1 960	1 186	548	0	2
Ferro-molybdenum	81	103	121	172	133
Ferro-silicon	13 502	9 097	10 615	9 595	5 383
Other ferro-alloys	2 390	823	1 544	2 090	1 022
Silicon metal	40 878	29 810	49 349	53 897	28 196
Ingots, blooms, billets	167 309	59 344	4 733	5 411	5 977
Scrap	96 427	91 114	108 802	138 814	210 426
Poland					
Pig iron	236 682	156 970	176 145	228 357	200 340
Sponge and powder	8 390	4 677	7 594	14 597	7 336
Ferro-chrome	13 713	6 064	7 785	8 042	9 413
Ferro-silico-magnesium	4 116	2 366	3 402	2 326	1 752
Ferro-manganese	31 876	32 935	30 721	45 192	31 083
Ferro-silico-manganese	47 964	71 585	56 882	65 816	60 667
Ferro-molybdenum	1 554	711	612	547	470
Ferro-niobium	231	244	395	279	379
Ferro-phosphorus	1 386	675	917	1 253	1 183
Ferro-silicon	20 424	16 132	21 576	18 457	15 818
Ferro-titanium and ferro-silico-titanium	210	117	194	259	291
Ferro-vanadium	418	313	370	10	447
Other ferro-alloys	4 236	3 096	4 355	5 856	6 658
Silicon metal	11 652	11 839	16 219	17 091	17 754
Ingots, blooms, billets	584 305	157 799	119 466	370 144	575 506
Scrap	465 978	596 733	374 076	409 454	383 472
Portugal					
Pig iron	13 824	7 507	10 623	4 980	1 895
Sponge and powder	740	38 849	6 919	37 376	27 383
Ferro-chrome	1 093	245	810	683	617
Ferro-silico-magnesium	1 318	1 104	1 475	470	79
Ferro-manganese	908	762	856	722	683
Ferro-silico-manganese	10 063	9 921	3 820	4 836	14 765
Ferro-silicon	3 479	3 707	2 902	3 408	3 130
Other ferro-alloys	5 303	3 516	657	2 611	4 500
Silicon metal	187	410	753	950	1 182
Ingots, blooms, billets	26 532	53 089	28 583	33 675	33 266
Scrap	1 128 391	887 110	672 856	616 063	1 165 785

Imports continued					tonnes
Country	2008	2009	2010	2011	2012
Romania					
Pig iron	37 889	61 027	111 702	48 365	58 954
Sponge and powder	3 203	1 518	2 740	22 355	1 777
Ferro-chrome	3 423	984	1 500	2 856	2 564
Ferro-silico-magnesium	89	36	49	25	104
Ferro-manganese	28 773	9 063	15 530	18 136	21 039
Ferro-silico-manganese	17 919	11 461	19 151	24 215	19 093
Ferro-molybdenum	212	177	274	315	420
Ferro-niobium	273	61	55	132	177
Ferro-phosphorus	227	188	217	154	119
Ferro-silicon	13 190	4 998	9 859	9 602	10 392
Ferro-titanium and ferro-silico-titanium	84	40	183	412	284
Ferro-vanadium	125	57	153	166	166
Other ferro-alloys	1 402	949	1 255	1 495	635
Silicon metal	3 155	1 104	3 098	3 205	2 730
Ingots, blooms, billets	757 551	109 046	458 742	771 167	328 843
Scrap	17 886	4 204	5 501	8 416	49 468
Serbia					
Pig iron	2 235	523	2 739	1 281	1 073
Sponge and powder	5 154	122	217	187	89
Ferro-chrome	1 167	1 104	1 272	1 884	1 327
Ferro-manganese	12 329	8 571	9 524	9 270	2 299
Ferro-silico-manganese	78	6	440	2 431	3 727
Ferro-silicon	3 086	2 089	2 418	3 285	2 631
Other ferro-alloys	491	275	324	357	219
Ingots, blooms, billets	95 726	205 528	283 255	34 913	2 021
Scrap	49 261	15 178	12 403	35 192	90 554
Slovakia					
Pig iron	70 034	19 468	33 258	43 874	38 466
Sponge and powder	* 143 700	4 090	13 227	7 294	6 124
Ferro-chrome	7 539	2 635	6 829	6 684	8 014
Ferro-manganese	19 503	16 912	13 202	16 391	17 286
Ferro-silico-manganese	2 776	2 720	1 776	4 904	3 902
Ferro-molybdenum	245	171	140	374	252
Ferro-niobium	897	154	315	426	549
Ferro-phosphorus	1 033	590	282	629	463
Ferro-silicon	23 747	14 970	15 250	12 660	9 171
Ferro-titanium and ferro-silico-titanium	367	315	535	435	281
Ferro-vanadium	217	7	62	123	144
Other ferro-alloys	3 546	664	1 627	981	201
Silicon metal	6 391	4 460	6 309	7 196	6 329
Ingots, blooms, billets	18 953	54 781	10 020	24 162	7 314
Scrap	217 558	164 985	224 868	146 065	342 657
Slovenia					
Pig iron	68 153	24 031	29 120	25 327	30 517
Sponge and powder	1 311	1 053	1 225	1 630	794
Ferro-chrome	25 665	15 951	26 575	36 528	36 673
Ferro-silico-magnesium	1 354	286	624	786	1 485
Ferro-manganese	5 663	4 157	6 175	5 763	6 318
Ferro-silico-manganese	3 373	3 467	8 810	7 697	7 477
Ferro-molybdenum	540	410	717	885	1 028
Ferro-phosphorus	483	522	846	968	1 115
Ferro-silicon	24 651	11 335	13 114	15 739	15 371
Ferro-titanium and ferro-silico-titanium	434	108	230	232	228
Ferro-tungsten and ferro-silico-tungsten	108	14	99	136	65
Ferro-vanadium	454	230	481	449	413
Other ferro-alloys	2 624	1 421	1 795	1 687	1 714
Silicon metal	6 536	4 929	7 874	8 318	5 862
Ingots, blooms, billets	12 930	1 568	8 191	31 931	20 897
Scrap	367 968	281 950	495 432	561 713	552 363

Iron, Steel and Ferro-Alloys

Imports continued

tonnes

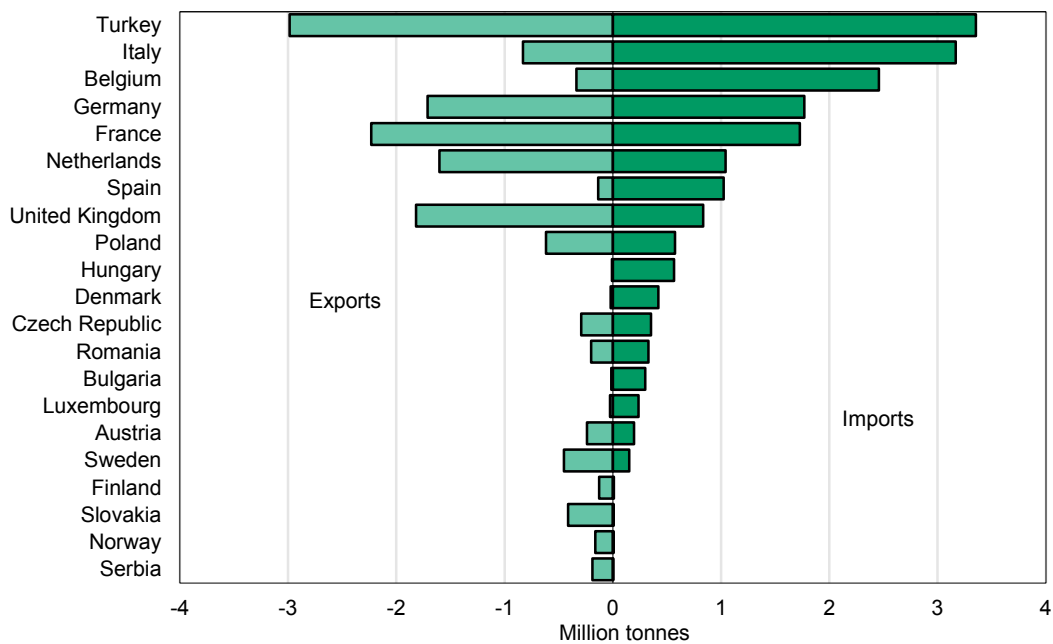
Country	2008	2009	2010	2011	2012
Spain					
Pig iron	688 421	380 731	442 656	315 904	274 202
Sponge and powder	621 627	295 665	636 496	640 549	487 073
Ferro-chrome	203 518	113 275	164 125	152 254	180 740
Ferro-silico-chrome	4 210	312	1 854	5 448	4 037
Ferro-silico-magnesium	2 328	865	1 567	2 139	2 696
Ferro-manganese	17 126	13 357	19 930	15 256	23 224
Ferro-silico-manganese	74 962	50 683	39 895	36 803	39 584
Ferro-molybdenum	3 777	3 756	6 446	6 943	10 662
Ferro-nickel	68 355	43 936	47 389	43 284	45 528
Ferro-niobium	685	553	983	1 334	1 000
Ferro-phosphorus	1 488	193	1 425	1 816	1 282
Ferro-silicon	46 445	27 140	27 581	29 894	28 149
Ferro-titanium and ferro-silico-titanium	1 006	611	1 203	1 120	957
Ferro-tungsten and ferro-silico-tungsten	168	125	55	60	1 079
Ferro-vanadium	1 122	809	1 088	1 094	964
Other ferro-alloys	7 561	4 954	6 138	8 566	7 401
Silicon metal	8 856	9 523	8 446	11 801	12 573
Ingots, blooms, billets	1 587 605	1 007 820	1 269 577	1 061 766	1 025 012
Scrap	7 408 237	4 674 099	5 708 900	4 764 338	4 348 807
Sweden					
Pig iron	80 450	40 076	58 974	78 818	58 329
Sponge and powder	11 861	2 691	11 668	24 398	34 982
Ferro-chrome	114 712	78 244	90 630	74 988	56 996
Ferro-silico-chrome	3 873	1 215	1 805	4 133	803
Ferro-silico-magnesium	698	246	424	20	44
Ferro-manganese	68 246	27 869	60 577	57 927	45 423
Ferro-silico-manganese	10 677	5 754	9 099	11 586	15 965
Ferro-molybdenum	5 693	2 652	4 388	4 723	4 913
Ferro-nickel	6 803	3 286	7 995	10 119	10 119
Ferro-niobium	1 264	604	1 146	1 544	1 614
Ferro-phosphorus	386	430	415	632	584
Ferro-silicon	34 249	25 880	37 424	37 743	44 736
Ferro-titanium and ferro-silico-titanium	1 370	653	1 127	1 459	1 731
Ferro-vanadium	956	547	729	1 058	954
Other ferro-alloys	8 371	1 938	2 097	1 894	1 691
Silicon metal	7 631	4 404	6 818	5 375	6 112
Ingots, blooms, billets	264 782	119 549	193 605	203 669	151 187
Scrap	193 207	174 279	217 682	245 225	236 125
Switzerland					
Pig iron	28 630	12 256	16 812	17 969	13 207
Sponge and powder	8 873	5 931	6 668	4 812	4 780
Ferro-chrome	1 803	288	1 480	1 846	1 519
Ferro-manganese	11 696	8 003	11 566	9 721	10 871
Ferro-silico-manganese	5 011	1 595	3 767	4 948	4 292
Ferro-molybdenum	208	76	174	230	157
Ferro-phosphorus	342	173	321	191	200
Ferro-silicon	5 264	4 287	5 014	5 937	4 527
Ferro-vanadium	52	82	548	544	187
Other ferro-alloys	845	280	381	561	272
Silicon metal	1 255	1 256	1 385	1 661	1 014
Ingots, blooms, billets	29 911	9 188	18 026	61 349	49 448
Scrap	505 597	313 055	452 626	456 700	343 770

Imports continued					tonnes
Country	2008	2009	2010	2011	2012
Turkey					
Pig iron	802 741	770 160	557 398	1 137 729	1 376 572
Sponge and powder	96 393	81 008	284 608	180 591	387 667
Ferro-chrome	11 321	2 787	8 159	9 061	6 493
Ferro-silico-chrome	324	—	1	200	600
Ferro-silico-magnesium	4 604	3 082	786	1 344	2 064
Ferro-manganese	73 319	46 760	61 866	59 326	54 195
Ferro-silico-manganese	195 623	191 605	229 451	243 637	252 758
Ferro-molybdenum	1 645	1 173	1 577	1 091	1 181
Ferro-niobium	609	338	147	424	550
Ferro-phosphorus	1 731	412	1 050	1 035	1 117
Ferro-silicon	90 477	60 164	87 552	107 151	100 727
Ferro-titanium and ferro-silico-titanium	634	651	167	480	629
Ferro-vanadium	529	323	261	591	562
Other ferro-alloys	7 417	2 978	7 366	8 213	6 639
Silicon metal	6 207	5 852	9 978	10 363	10 777
Ingots, blooms, billets	3 849 141	3 590 665	2 350 758	2 157 532	3 355 265
Scrap	17 414 983	15 372 727	19 138 460	21 452 724	22 415 045
United Kingdom					
Pig iron	61 657	19 703	41 959	69 095	55 845
Sponge and powder	27 003	17 483	97 745	147 870	176 638
Ferro-chrome	79 692	34 884	58 398	70 191	65 219
Ferro-silico-chrome	128	13	9	362	723
Ferro-silico-magnesium	1 614	512	931	1 328	1 360
Ferro-manganese	96 461	49 700	46 985	39 159	47 706
Ferro-silico-manganese	52 966	37 114	49 280	51 928	36 661
Ferro-molybdenum	369	325	322	573	458
Ferro-nickel	16 520	2 777	6 284	13 888	17 916
Ferro-niobium	1 189	686	859	395	250
Ferro-phosphorus	2 473	282	836	1 134	474
Ferro-silicon	59 438	31 091	43 703	45 918	39 351
Ferro-titanium and ferro-silico-titanium	1 290	396	274	187	902
Ferro-vanadium	543	209	340	368	246
Other ferro-alloys	2 237	2 296	595	388	1 520
Silicon metal	56 807	68 109	99 651	101 005	97 454
Ingots, blooms, billets	679 019	212 829	714 541	1 185 242	835 691
Scrap	228 294	213 818	270 986	423 744	284 986

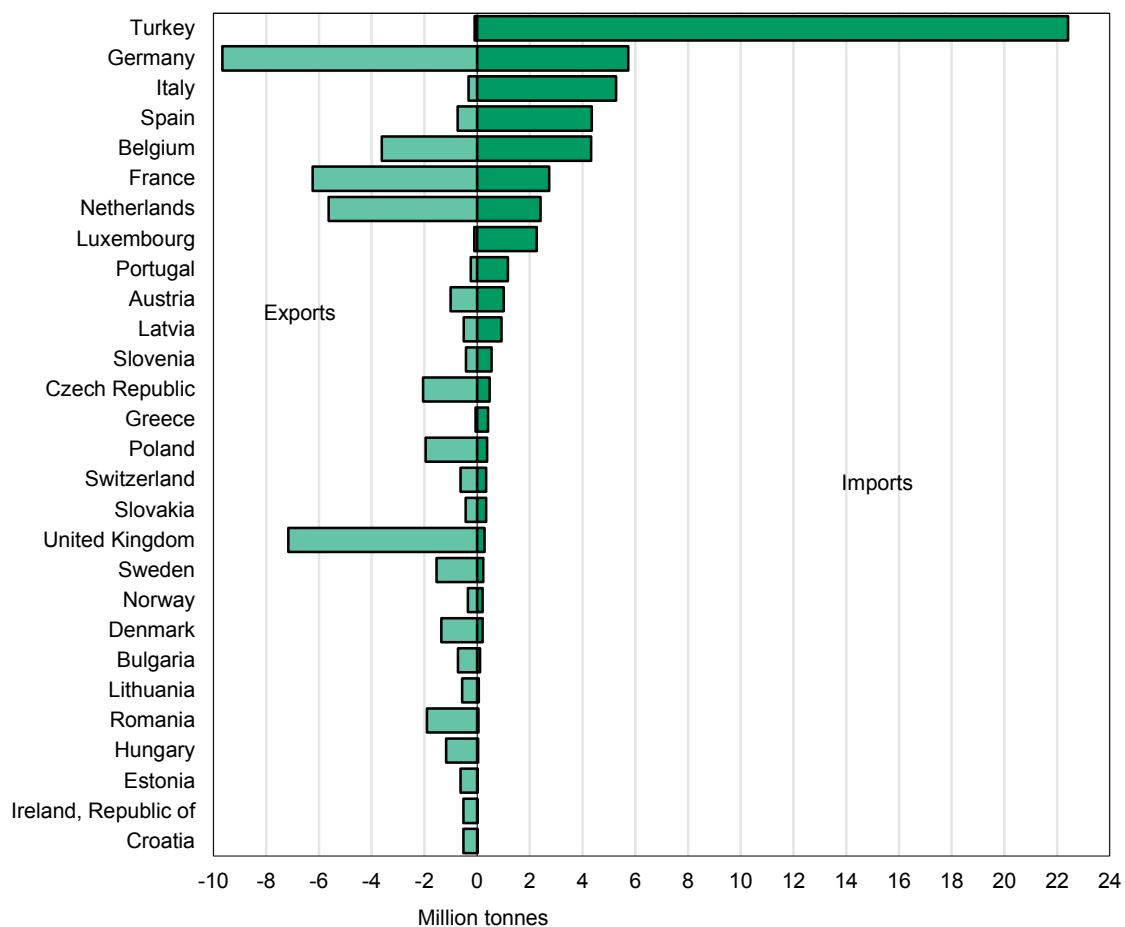
Note(s)

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

Iron and steel ingots, blooms and billets - EU35 trade in 2012



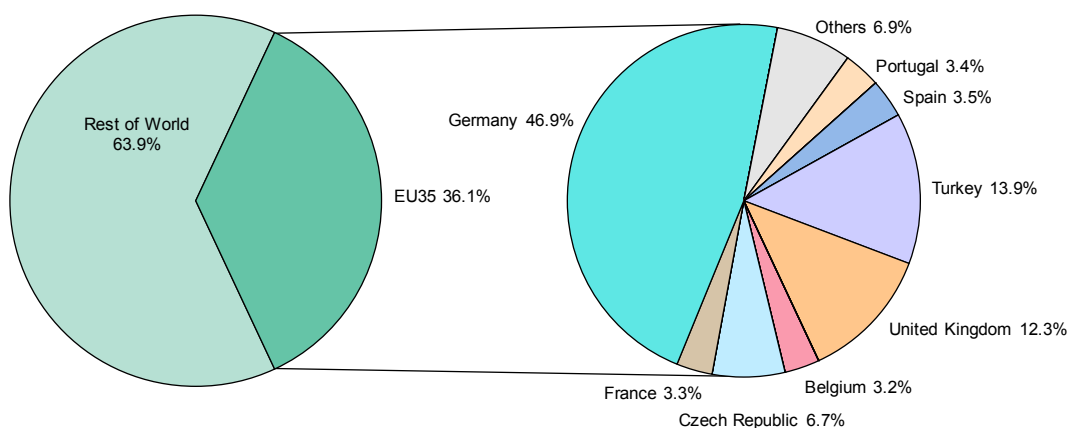
Iron and steel scrap - EU35 trade in 2012



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 2012, with 23 per cent of the total world output. The second largest was Germany (17 per cent), followed by China (12 per cent), Brazil (seven per cent) and Iran (six per cent).

EU35 Production of kaolin 2012



Production of kaolin

tonnes

Country	2008	2009	2010	2011	2012
Austria	16 460	18 148	18 914	18 897	* 14 000
Belgium	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Bulgaria	* 220 000	* 140 000	* 190 000	* 250 000	* 240 000
Czech Republic (a)	664 000	488 000	636 000	660 000	624 000
France	335 520	350 000	350 000	310 000	308 000
Germany (b)	3 622 159	4 513 753	4 578 097	4 898 516	4 398 796
Greece	4 360	—	3 493	7 250	5 583
Italy	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Poland (c)	165 615	136 561	125 000	163 600	137 800
Portugal	217 434	274 925	273 890	322 041	317 489
Romania	3 060	651	326	—	—
Serbia	398 917	163 616	76 197	90 472	69 487
Slovakia	44 000	10 000	—	4 000	3 000
Spain (c)	355 739	270 298	310 993	384 179	331 707
Turkey	232 746	234 614	787 287	1 229 352	* 1 300 000
United Kingdom	1 355 365	1 059 848	* 1 140 000	* 1 290 000	* 1 150 000
EU35 Total	8 100 000	8 100 000	9 000 000	10 100 000	9 400 000

Note(s)

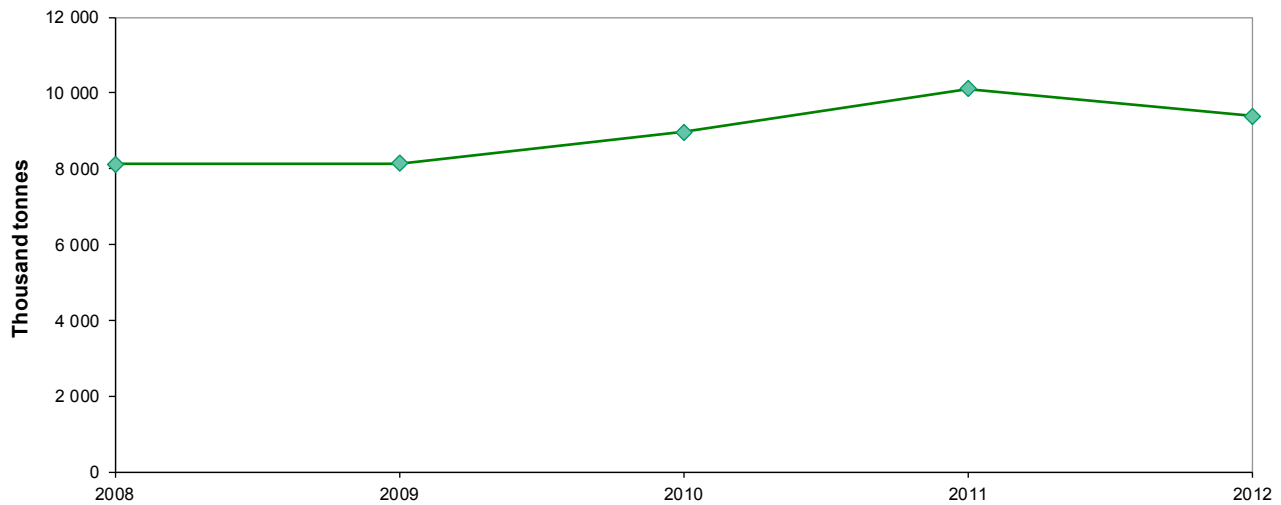
(1) In addition to the countries listed Denmark is believed to produce kaolin

(a) Beneficiated

(b) Washed and dried

(c) Washed

EU35 Production of kaolin 2008 - 12



Exports of kaolin

tonnes

Country	2008	2009	2010	2011	2012
Austria	2 445	8 954	27 908	6 588	6 958
Belgium	1 030 076	783 512	523 697	232 664	219 024
Bulgaria	139 069	119 736	159 669	197 114	193 385
Czech Republic	233 819	174 814	485 203	537 962	507 689
Denmark	486	352	607	1 370	1 489
Estonia	...	—	878	830	1 019
Finland	8 587	13 832	18 176	30 760	40 550
France	319 301	268 674	272 778	273 802	244 439
Germany	498 165	374 313	389 927	431 815	361 915
Hungary	3 110	2 847	2 436	3 272	2 861
Italy	13 627	21 392	36 208	27 994	21 393
Lithuania	12	18	40	648	1 258
Luxembourg	268	414	22	6	54
Netherlands	72 264	33 563	33 923	24 652	25 254
Norway	47	271	103	85	492
Poland	8 936	11 515	9 781	13 591	12 366
Portugal	47 562	51 014	31 390	102 721	122 029
Serbia	10 251	4 239	1 868	1 282	1 069
Slovakia	593	1 425	4 493	552	42
Spain	155 563	156 915	167 811	161 156	173 061
Sweden	30 495	31 122	23 103	16 444	7 032
Turkey	130 923	61 828	137 963	83 203	110 139
United Kingdom	1 955 020	1 393 939	1 722 335	2 315 560	2 646 009

Imports of kaolin

tonnes

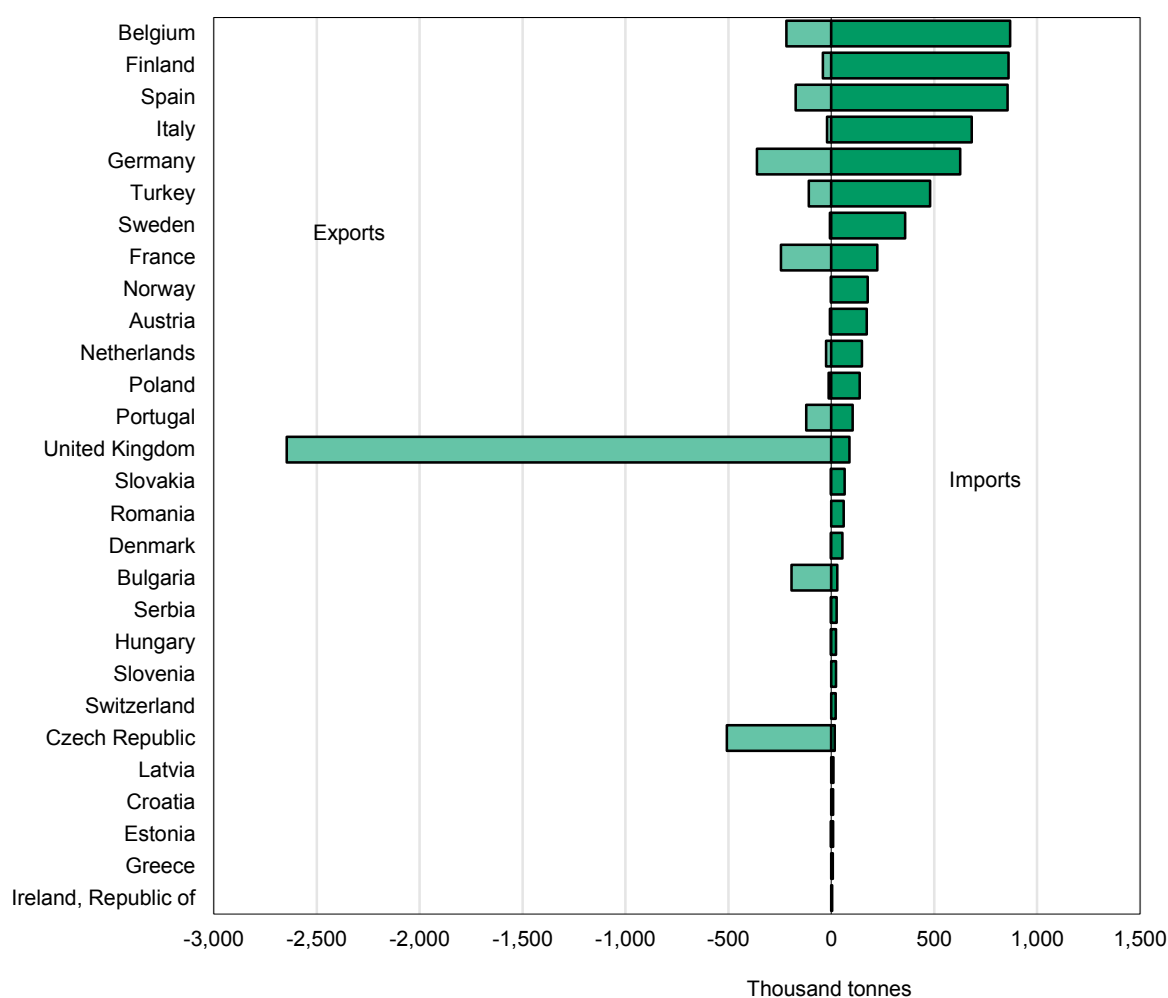
Country	2008	2009	2010	2011	2012
Austria	226 682	192 860	194 396	187 831	171 310
Belgium	1 465 754	905 784	1 001 057	890 863	868 298
Bulgaria	28 748	20 623	23 784	25 789	29 038
Croatia	24 009	14 486	10 238	11 278	8 655
Czech Republic	20 662	13 228	14 125	18 733	17 045
Denmark	47 525	37 738	37 007	37 755	53 815
Estonia	3 902	1 588	881	211	8 568
Finland	1 147 687	708 210	941 387	936 544	860 241
France	263 449	200 203	231 779	220 764	223 649
Germany	647 278	585 675	715 770	705 107	625 826

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Greece	62 415	49 509	31 132	14 336	7 454
Hungary	29 089	25 094	24 175	29 736	23 099
Ireland, Republic of	18 766	3 155	4 039	3 414	3 377
Italy	810 560	505 593	823 461	707 622	681 595
Latvia	11 173	7 476	10 594	9 289	10 768
Lithuania	607	159	486	360	480
Luxembourg	10 951	6 316	904	563	736
Macedonia	12 259	4 879	4 985	3 815	1 440
Netherlands	352 122	68 072	150 929	150 310	149 090
Norway	253 361	190 562	225 576	149 002	176 164
Poland	126 426	90 183	117 914	143 476	138 026
Portugal	114 041	73 081	96 851	106 955	103 863
Romania	48 422	40 326	51 754	56 871	60 170
Serbia	65 704	32 091	50 421	38 810	25 922
Slovakia	95 911	58 509	62 748	70 451	64 345
Slovenia	25 682	20 776	27 287	28 779	22 614
Spain	1 470 440	757 859	1 061 732	1 055 122	856 355
Sweden	468 491	408 564	367 948	389 358	359 345
Switzerland	39 932	33 555	24 249	21 460	21 551
Turkey	402 812	301 086	424 152	497 148	479 665
United Kingdom	79 546	77 504	95 865	102 396	88 505

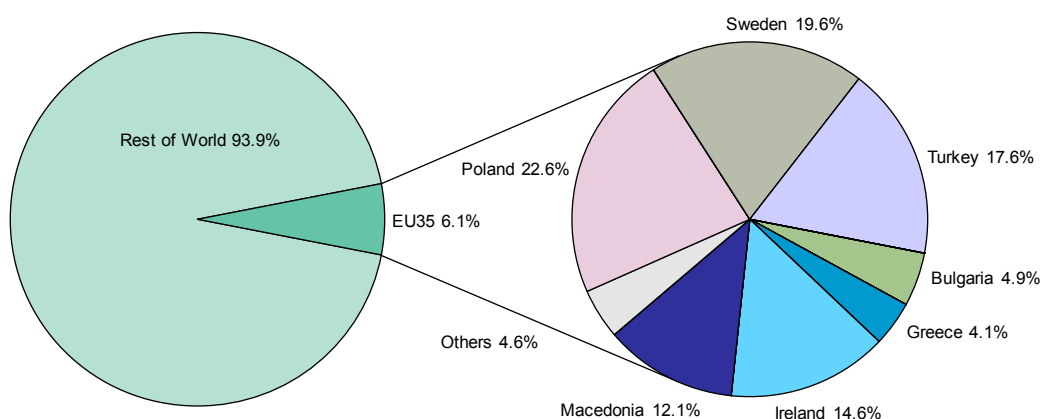
Kaolin - EU35 trade in 2012



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 2012, with 54 per cent of the total world output. The second largest was Australia (12 per cent), followed by USA (seven per cent), Peru (five per cent) and Mexico (four per cent).
- China was also the world's largest producer of refined lead in 2012, with 44 per cent of the total world output. The second largest was USA (12 per cent), followed by India, South Korea and Germany (with four per cent each).

EU35 Mine production of lead 2012



Mine production of lead

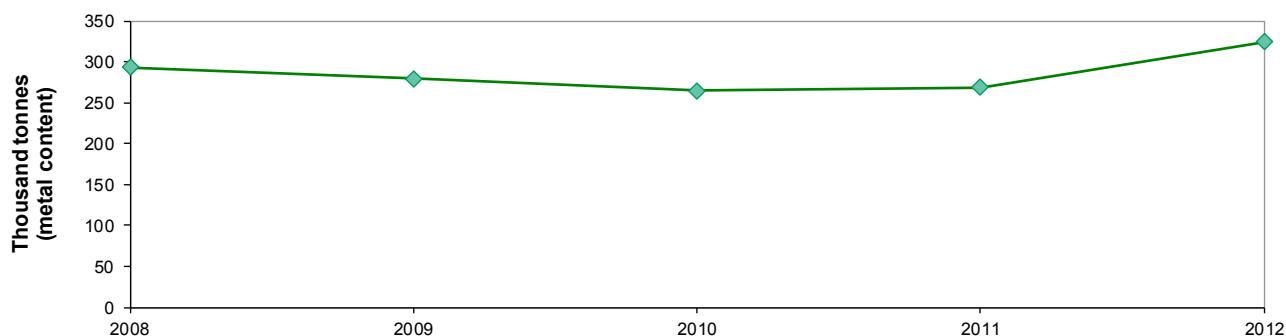
tonnes (metal content)

Country	2008	2009	2010	2011	2012
Bulgaria (a)	14 577	12 981	12 705	14 369	15 949
Greece	14 000	10 000	12 200	13 400	13 300
Ireland, Republic of	50 200	49 500	39 100	50 700	47 400
Macedonia	49 877	46 788	41 293	37 295	39 184
Poland	67 070	62 910	48 050	40 492	73 231
Portugal	—	—	—	—	87
Romania	—	* 3 000	* 3 000	* 3 000	* 5 500
Serbia	1 600	1 800	1 800	2 100	2 500
Spain	—	1 000	229	5 705	6 800
Sweden	63 489	69 293	67 697	62 028	63 551
Turkey	31 800	21 600	38 500	39 500	* 57 017
United Kingdom	* 300	243	251	280	61
EU35 Total	292 900	279 100	264 800	268 900	324 600

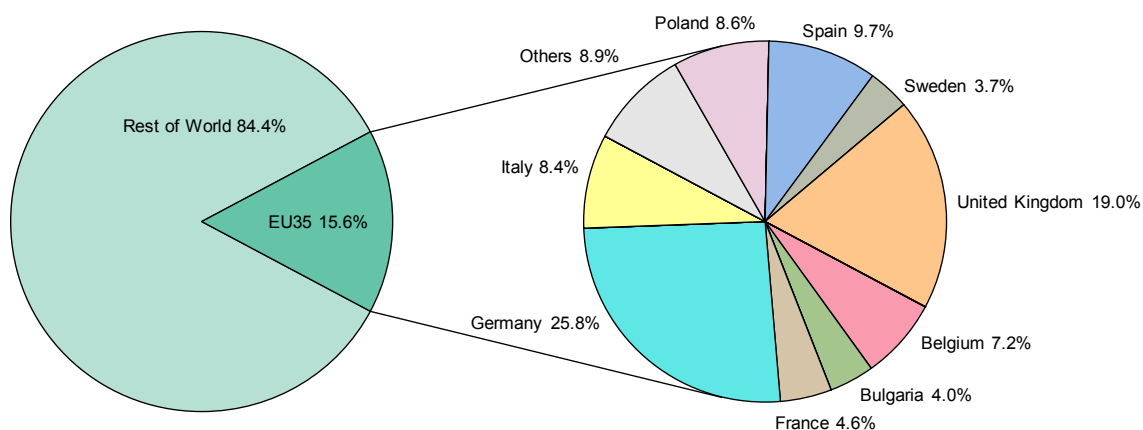
Note(s)

(a) Metal content of ore

EU35 Mine production of lead 2008 - 12



EU35 Production of refined lead 2012



Production of refined lead

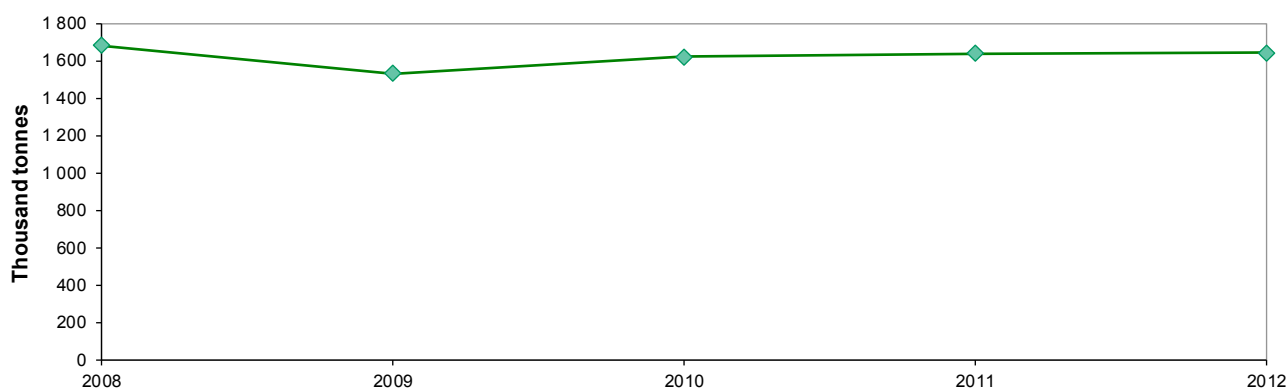
tonnes

Country	2008	2009	2010	2011	2012
Austria	26 900	22 200	25 500	26 200	24 504
Belgium	104 000	109 000	121 000	119 000	119 000
Bulgaria	90 900	83 100	80 600	71 000	66 000
Czech Republic	36 000	29 000	30 000	34 000	30 000
Estonia	10 000	10 000	10 000	10 000	8 000
France	82 100	62 000	71 000	80 000	75 000
Germany	415 100	390 600	405 400	429 100	423 000
Greece	* 11 000	* 11 000	* 11 000	* 11 000	* 6 000
Ireland, Republic of	20 000	19 000	19 000	18 000	16 000
Italy	199 900	149 000	150 000	146 500	138 400
Netherlands	* 16 000	* 21 000	* 20 000	* 21 000	* 22 000
Poland	108 300	100 400	120 300	135 500	141 000
Portugal	5 000	4 000	4 000	4 000	5 000
Romania	39 596	8 687	11 263	6 854	* 13 000
Slovenia	15 000	14 000	14 000	15 000	12 000
Spain	145 000	138 000	165 000	177 000	160 000
Sweden	56 812	51 574	59 179	52 438	61 528
Switzerland	* 8 000	800	—	—	—
Turkey	* 6 000	* 6 000	* 6 000	8 230	* 10 000
United Kingdom	283 000	301 865	297 453	274 055	311 930
EU35 Total	1 679 000	1 531 000	1 621 000	1 639 000	1 642 000

Note(s)

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

EU35 Production of refined lead 2008 - 12



Exports of lead

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought	13 844	12 512	16 427	15 619	13 329
Scrap	600	2 173	871	729	983
Belgium					
Ores and concentrates	114 105	148 562	101 160	167 055	136 787
Unwrought	95 878	108 442	145 571	130 655	127 052
Scrap	18 336	21 962	21 479	18 945	18 051
Bulgaria					
Ores and concentrates	9 555	4 188	4 611	9 331	2 120
Unwrought	80 972	77 713	78 977	68 472	64 354
Croatia					
Scrap	1 872	1 025	1 697	1 842	1 906
Czech Republic					
Unwrought	18 713	23 617	32 743	27 649	23 614
Scrap	8 136	4 832	1 914	2 357	1 157
Denmark					
Scrap	1 159	4 057	3 485	4 118	4 167
Estonia					
Unwrought	10 473	8 861	10 624	11 513	11 042
France					
Unwrought	17 630	14 554	36 293	40 470	53 971
Scrap	15 888	20 815	37 654	20 392	15 936
Germany					
Ores and concentrates	—	1 000	4 296	19 697	60 356
Unwrought	177 129	204 075	203 077	196 443	178 589
Scrap	13 133	13 100	9 892	12 932	7 982
Greece					
Unwrought	5 792	2 360	5 209	3 068	11 313
Scrap	1 390	913	1 945	735	1 516
Hungary					
Scrap	4 052	4 001	1 898	2 428	1 615
Ireland, Republic of					
Ores and concentrates	91 728	109 877	62 729	64 470	80 910
Scrap	49	114	638	4 144	42 384
Italy					
Unwrought	34 904	23 006	7 821	15 455	8 646
Scrap	6 897	7 594	9 776	10 173	14 804
Latvia					
Scrap	164	1 352	3 243	3 086	2 687
Lithuania					
Scrap	9 730	4 210	5 941	5 335	6 603
Macedonia					
Ores and concentrates	...	60 702	55 482	48 959	49 055
Unwrought	184	1 271	801	421	685
Scrap	2 209	226	226	219	218
Netherlands					
Ores and concentrates	55 980	74 725	63 921	94 100	46 688
Unwrought	7 725	11 061	12 971	16 989	14 432
Scrap	12 278	13 807	35 168	30 486	21 665
Norway					
Scrap	695	504	1 800	1 444	1 944
Poland					
Ores and concentrates	69 852	59 790	35 459	30 132	60 549
Unwrought	40 017	48 599	43 945	59 599	62 941
Scrap	1 110	1 525	1 668	1 010	1 392
Portugal					
Unwrought	4 950	6 647	8 785	8 050	5 124
Scrap	3 105	2 222	1 710	1 855	1 363
Romania					
Ores and concentrates	17 396	15 759	9 096	5 952	11 051
Unwrought	22 752	9 049	10 573	18 722	18 859
Scrap	2 997	2 526	5 659	6 846	5 419
Serbia					
Ores and concentrates	11 763	9 133	10 265	13 981	13 479
Unwrought	5 683	6 695	5 661	7 848	5 777

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Slovenia					
Unwrought	6 960	6 891	8 090	6 008	5 391
Spain					
Ores and concentrates	1 015	14 147	9 513	24 608	50 216
Unwrought	14 771	13 434	6 630	15 683	37 882
Scrap	6 616	3 862	6 781	5 029	3 361
Sweden					
Ores and concentrates	61 439	72 220	111 153	73 996	68 646
Unwrought	53 715	46 795	55 501	54 370	51 796
Scrap	816	1 044	1 445	1 471	1 425
Switzerland					
Unwrought	7 387	1 765	230	19	23
Scrap	3 236	4 748	5 497	5 732	5 301
Turkey					
Ores and concentrates (a)	52 988	35 973	64 247	65 917	93 590
Unwrought	832	361	400	802	2 522
United Kingdom					
Unwrought	79 520	126 743	105 235	144 877	169 739
Unwrought, base bullion	...	0	21	822	1 993
Unwrought alloys	57 466	54 505	62 406	4 820	6 050
Scrap	47 660	56 055	69 404	74 789	57 990

Note(s)

(1) In this table the term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars, etc.

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

(a) Complex lead-zinc ore

Imports of lead

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought	27 475	21 580	19 391	31 675	29 938
Belgium					
Ores and concentrates	97 474	192 496	169 356	154 976	139 771
Unwrought	30 413	18 121	14 467	27 696	77 349
Scrap	25 873	34 085	31 992	33 219	26 023
Bulgaria					
Ores and concentrates	119 522	63 185	81 307	74 810	72 008
Unwrought	15 529	10 182	7 283	21 566	21 064
Scrap	5 830	12 145	17 462	4 627	1 660
Czech Republic					
Unwrought	59 318	65 896	81 762	36 233	60 258
Scrap	4 672	4 150	2 901	2 763	2 560
Denmark					
Unwrought	192	107	128	172	182
Scrap	1 984	2 583	2 890	1 989	2 655
Finland					
Unwrought	3 195	2 346	1 512	2 446	3 821
France					
Unwrought	103 535	42 187	34 090	39 305	38 918
Scrap	22 490	13 579	12 848	15 182	14 265
Germany					
Ores and concentrates	212 602	234 102	184 018	205 464	228 444
Unwrought	118 779	103 642	157 301	157 653	148 576
Scrap	28 231	40 547	39 653	35 823	28 058
Greece					
Unwrought	6 875	10 644	11 149	16 980	17 028
Scrap	2 800	1 753	1 692	2 136	2 183
Hungary					
Unwrought	2 711	2 663	6 138	9 497	11 372

Lead

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Ireland, Republic of					
Unwrought	23 480	15 784	14 357	15 345	5 199
Scrap	17 702	16 689	12 074	12 305	14 089
Italy					
Ores and concentrates	85 760	29 210	20	0	9 419
Unwrought	99 015	86 054	111 301	109 458	89 266
Scrap	2 972	2 031	2 609	4 976	4 111
Lithuania					
Scrap	162	3 301	4 459	5 755	1 892
Netherlands					
Ores and concentrates	5 307	1 935	1 558	8 083	29 375
Unwrought	9 373	7 195	8 717	8 496	4 020
Scrap	11 325	13 593	21 255	16 886	15 622
Norway					
Unwrought	6 473	5 026	6 449	7 713	8 071
Poland					
Unwrought	35 465	29 861	46 810	52 011	42 108
Scrap	2 467	2 293	7 154	6 673	4 980
Portugal					
Unwrought	12 014	6 642	5 593	9 403	8 661
Scrap	423	258	395	266	1 113
Romania					
Ores and concentrates	27 055	5 889	7 052	9 420	463
Unwrought	872	9 245	11 834	16 789	12 777
Serbia					
Ores and concentrates	...	...	5 978	8 127	2 642
Unwrought	2 871	4 493	6 018	5 302	9 163
Scrap	...	0	1 228	2 643	2 087
Slovenia					
Unwrought	14 103	13 036	16 025	17 594	17 294
Scrap	1 556	1 985	3 812	3 611	3 741
Spain					
Ores and concentrates	7 107	3 199	10 946	6 722	4 651
Unwrought	116 492	121 522	110 217	114 380	122 913
Scrap	35 506	35 703	43 432	42 236	34 702
Sweden					
Ores and concentrates	275	—	14 763	—	—
Unwrought	6 922	5 028	5 340	5 783	6 616
Scrap	2 089	5 176	9 464	8 401	9 624
Switzerland					
Unwrought	9 915	9 446	5 664	2 838	5 519
Turkey					
Unwrought	79 460	73 520	73 057	85 131	99 137
United Kingdom					
Unwrought, base bullion (a)	194 113	130 312	151 653	127 691	168 669
Unwrought, other	19 569	15 479	14 359	18 601	19 606
Unwrought alloys	19 924	1 798	787	1 287	1 331
Scrap	4 621	4 962	8 858	4 792	3 317

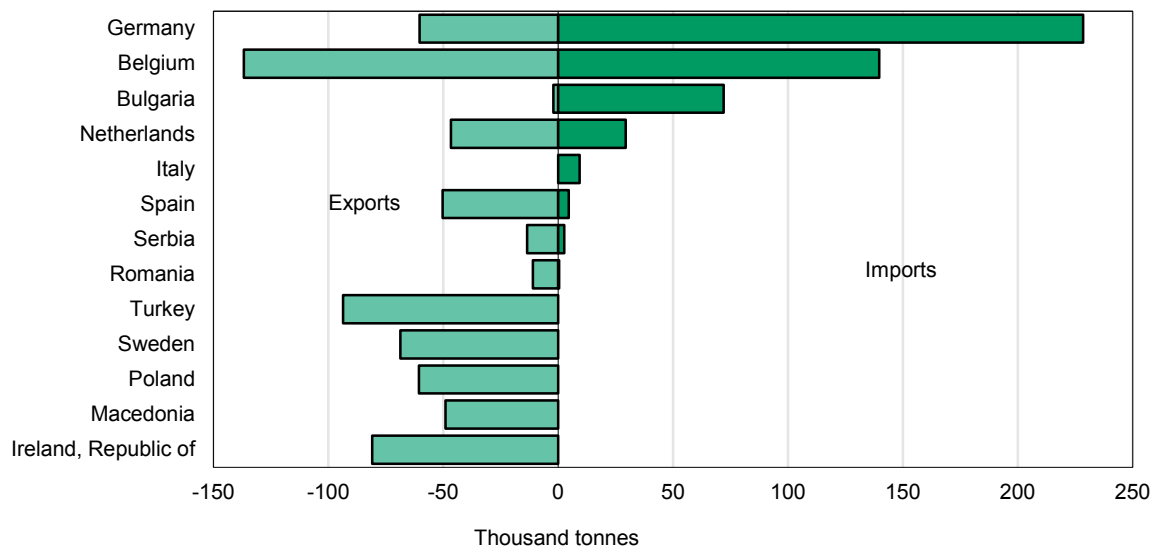
Note(s)

(1) In this table the term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars, etc.

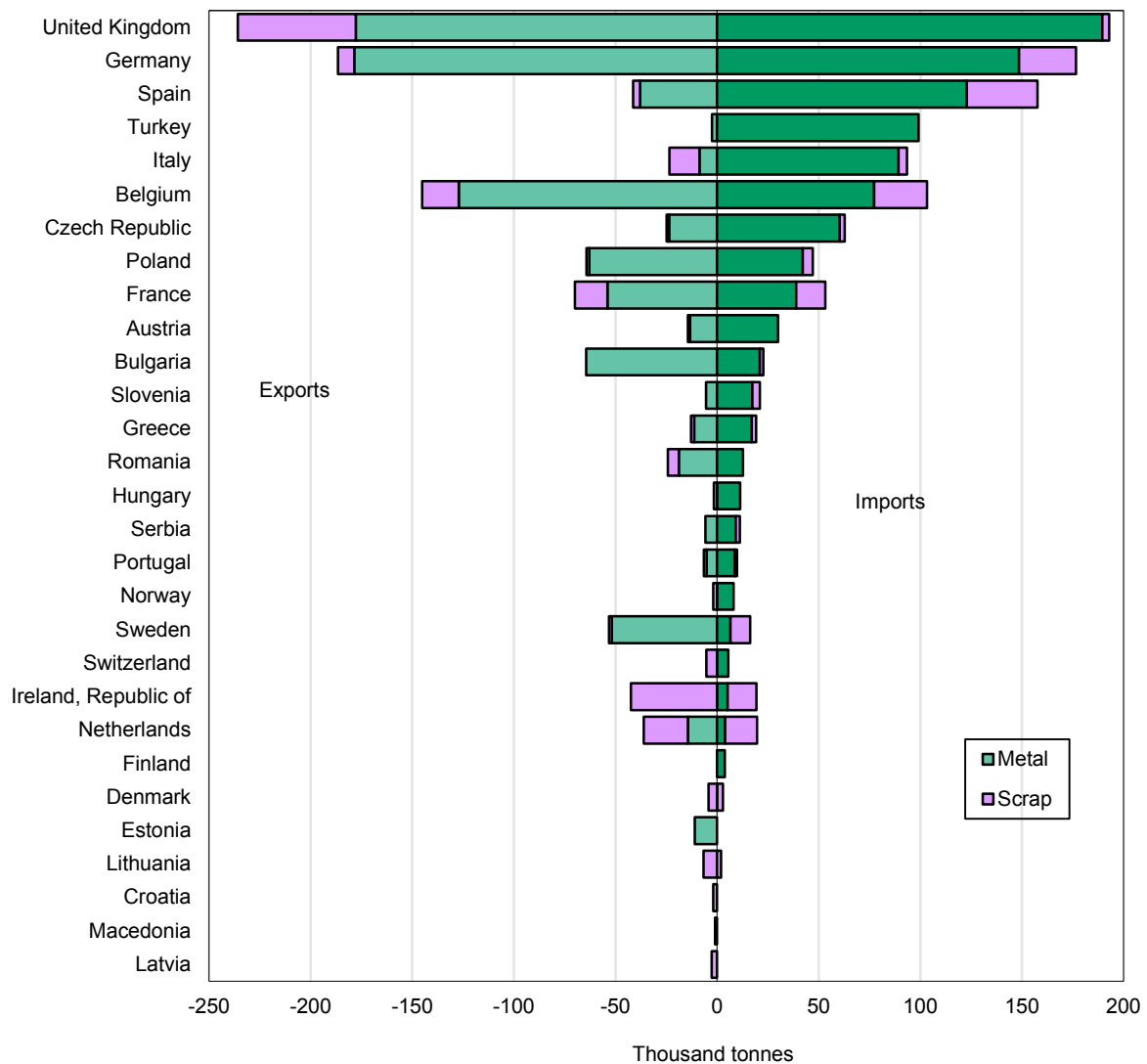
(2) The term 'unwrought' as used here includes alloys unless these are separately specified

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

Lead ore - EU35 trade in 2012



Lead - EU35 trade in 2012



Lithium minerals

- Lithium is a very light metallic element. It is mainly used as lithium compounds in rechargeable batteries, as fluxes in the ceramics and glass industries, and in lubricants. The metal is an important alloying agent with primary aluminium.
- 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 2012, with an estimated 49 per cent of the total world output, which was entirely from brine extraction. The second largest was Australia (30 per cent, entirely from minerals), followed by Argentina (nine per cent, from brine), USA (five per cent, from brine) and China (four per cent, from both minerals and brine).

Production of lithium minerals

tonnes

Country	2008	2009	2010	2011	2012
Portugal					
Lepidolite	34 888	37 359	40 109	37 534	20 698
Spain					
Lepidolite	9 342	4 270	7 824	—	—

Exports of lithium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Carbonate	28	10	170	166	9
Belgium					
Oxides	1 281	781	2 284	1 890	2 320
Carbonate	3 567	3 042	4 539	4 428	4 985
France					
Oxides	5	91	46	108	103
Germany					
Carbonate	2 290	1 880	2 387	2 927	2 259
Italy					
Carbonate	193	145	49	105	73
Netherlands					
Oxides	511	205	116	365	303
Carbonate	299	227	160	300	567
Slovenia					
Carbonate	122	128	88	91	98
Spain					
Carbonate	128	228	175	268	100
Switzerland					
Oxides	88	2 041	190	1	83
United Kingdom					
Oxides	232	569	144	7	41
Carbonate	216	193	123	50	102

Imports of lithium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Carbonate	333	327	402	463	359
Belgium					
Oxides	1 851	1 179	2 410	2 953	2 515
Carbonate	4 414	3 410	4 183	7 770	7 205
Denmark					
Carbonate	311	402	340	358	80
France					
Oxides	256	362	570	479	547
Carbonate	1 251	1 172	1 137	2 792	1 756
Germany					
Oxides	5 420	(a)* 3 000	(a)* 1 800	(a)* 1 700	(a)* 1 300
Carbonate	7 098	4 433	6 486	5 735	6 064
Italy					
Oxides	246	96	175	148	143
Carbonate	1 519	1 185	1 123	1 369	1 052
Netherlands					
Oxides	537	228	290	494	201
Carbonate	729	316	431	527	462
Poland					
Oxides	61	86	86	114	141
Carbonate	162	137	175	177	177
Slovenia					
Oxides	186	139	95	125	190
Spain					
Oxides	501	521	1 007	698	763
Carbonate	3 908	2 825	3 239	3 423	2 638
Sweden					
Oxides	146	149	214	243	213
Carbonate	278	191	87	69	159
Switzerland					
Oxides	143	110	118	141	98
Turkey					
Oxides	257	208	268	261	236
Carbonate	617	613	770	865	1 006
United Kingdom					
Oxides	466	914	218	215	119
Carbonate	536	622	427	376	344

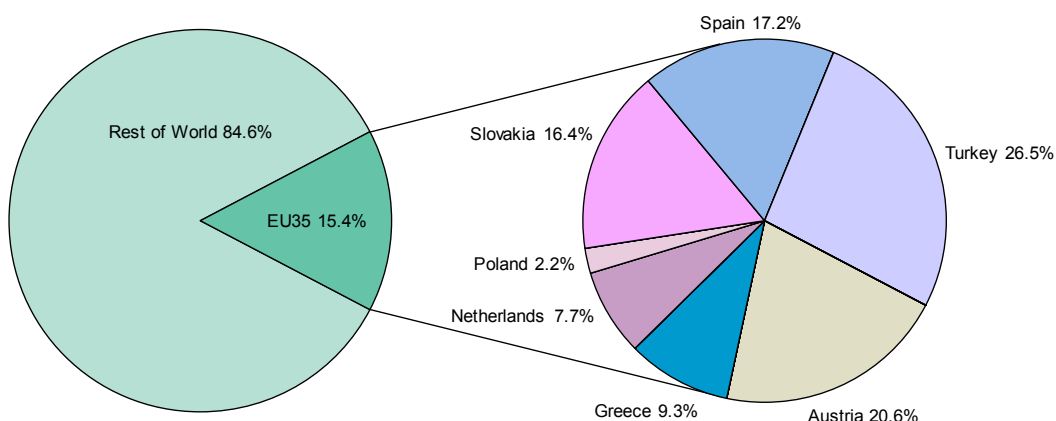
Note(s)

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

Magnesite

- Magnesite is the commonly used name for magnesium carbonate rock. Magnesite has excellent thermal resistance and is most commonly used as refractory bricks in furnaces. It is also used in fertilisers.
- China was the world's largest producer in 2012, with 65 per cent of the total world output. The second largest was Russia (11 per cent), followed by Turkey (four per cent), Austria and Spain (with three per cent each).

EU35 Production of magnesite 2012



Production of magnesite

tonnes

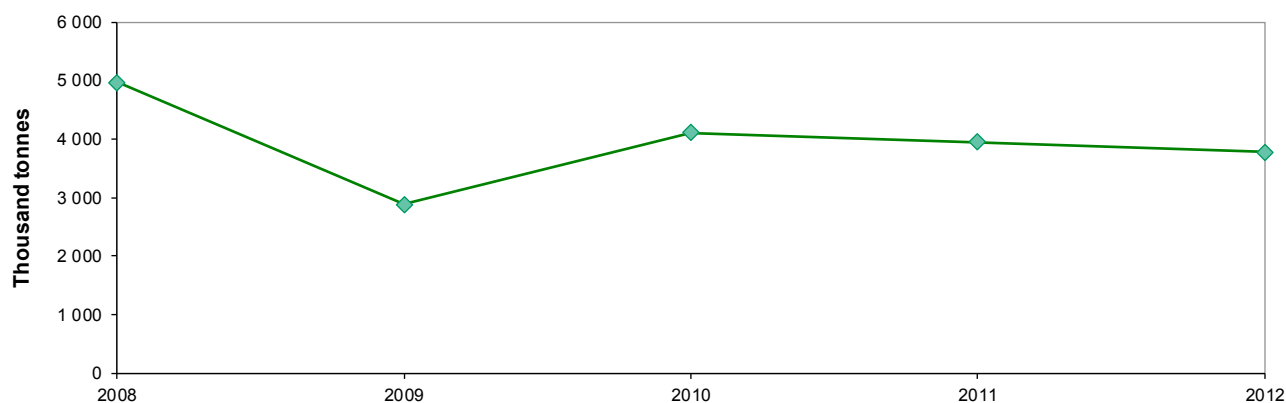
Country	2008	2009	2010	2011	2012
Austria	837 476	544 716	757 063	867 912	778 810
Greece	361 165	380 834	396 497	393 880	349 998
Netherlands (a)	316 264	183 256	236 053	274 877	290 873
Poland	60 000	47 000	63 000	75 350	84 000
Slovakia	806 500	477 600	650 100	751 700	618 400
Spain	442 339	390 311	462 959	577 725	649 977
Turkey	2 143 047	861 180	1 541 860	* 1 000 000	* 1 000 000
EU35 Total	4 967 000	2 885 000	4 108 000	3 941 000	3 772 000

Note(s)

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

(a) Chloride produced from solution mining

EU35 Production of magnesite 2008 - 12



Exports of magnesite and magnesite

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Magnesite	602	1 746	989	780	774
Magnesia	28 779	26 716	39 589	79 519	71 453
Belgium					
Magnesite	1 911	876	1 235	914	150
Magnesia	81 909	59 644	96 513	58 237	49 561
Bulgaria					
Magnesite	429	—	—	537	241
Czech Republic	4 540	3 728	3 809	7 096	5 997
Denmark					
Magnesite	390	425	244	147	1
Magnesia	71	93	522	497	179
France					
Magnesite	310	576	274	207	250
Magnesia	57 342	35 523	52 553	35 543	38 098
Germany					
Magnesite	22	140	229	1 303	381
Magnesia	72 684	58 604	94 198	67 605	73 154
Greece					
Magnesite	1	—	...	8 766	4 012
Magnesia	126 496	84 399	108 020	110 276	87 550
Hungary					
Magnesia	...	—	...	317	309
Ireland, Republic of					
Magnesite	5 006	9 133	3 383	18 665	13 218
Magnesia	9 912	8 595	33 334	11 761	3 465
Italy					
Magnesite	2 337	1 945	2 535	3 236	2 902
Magnesia	8 172	5 873	7 393	6 194	7 283
Lithuania					
Magnesia	...	537	717	352	350
Luxembourg					
Magnesite	481	621	943	1 325	1 171
Netherlands					
Magnesite	494	180	423	744	31
Magnesia	344 675	160 337	139 516	402 976	370 287
Poland					
Magnesite	51	474	...	101	79
Magnesia	1 870	250	1 013	550	3 303
Portugal					
Magnesite	0	...	11	1	716
Magnesia	...	10	4	1	528
Romania					
Magnesia	440	381	460	212	412
Serbia					
Magnesite	412	242	1 851	1 524	1 852
Magnesia	446	319	328	5 831	8 704
Slovakia					
Magnesite (a)	* 9 300	* 7 400	* 8 400	* 4 900	* 3 800
Magnesia	409 295	261 876	336 786	340 612	272 677
Slovenia					
Magnesite	427	59	4 798	78	22
Magnesia	421	344	334	259	9 577
Spain					
Magnesite	725	2 167	410	573	1 051
Magnesia	175 307	156 027	224 590	259 493	257 527
Sweden					
Magnesia	235	380	303	165	130
Turkey					
Magnesite	68 054	35 097	24 213	37 902	28 747
Magnesia	175 441	162 651	209 633	238 620	245 537

Magnesite and Magnesite

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Magnesite	316	518	470	745	1 163
Magnesia	13 647	9 662	14 497	28 042	14 869

Note(s)

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

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

Imports of magnesite and magnesia

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Magnesite	2 319	937	848	1 512	1 069
Magnesia	248 037	21 708	272 232	214 788	180 117
Belgium					
Magnesite	2 357	1 412	3 820	2 076	643
Magnesia	141 185	104 577	80 845	70 954	58 355
Bulgaria	6 296	3 180	5 678	11 378	6 204
Croatia	1 682	1 289	1 208	1 061	710
Czech Republic					
Magnesite	4 193	3 460	7 108	4 578	5 270
Magnesia	54 246	38 048	38 862	40 975	43 235
Denmark					
Magnesite	456	2 680	2 728	2 299	1 784
Magnesia	4 149	5 472	4 636	4 927	5 219
Finland					
Magnesite	145	224	118	576	568
Magnesia	8 692	6 439	7 387	9 214	8 959
France					
Magnesite	2 378	1 209	784	1 087	4 013
Magnesia	164 235	117 821	126 821	127 469	115 590
Germany					
Magnesite	8 420	6 731	12 751	5 625	5 285
Magnesia	562 618	276 674	473 545	515 139	496 202
Greece					
Magnesite	44 397	19 803	3 603	14 704	14 475
Magnesia	7 328	1 729	2 198	7 506	1 442
Hungary					
Magnesite	1 751	1 081	1 331	1 499	1 124
Magnesia	7 892	1 563	6 783	4 369	4 739
Ireland, Republic of					
Magnesite	4 385	4 191	5 535	6 333	1 731
Magnesia	42 999	22 523	39 638	49 122	48 779
Italy					
Magnesite	18 347	9 375	21 454	27 347	13 774
Magnesia	150 098	93 262	143 725	133 451	120 185
Latvia					
Magnesia	5 355	2 827	5 524	2 735	12 507
Lithuania					
Magnesia	5 196	855	1 245	593	1 159
Luxembourg	1 663	2 202	2 612	2 375	3 805
Macedonia	13 956	10 113	11 266	9 418	5 547
Netherlands					
Magnesite	3 609	3 259	459	3 115	195
Magnesia	314 860	80 478	345 154	458 372	340 922
Norway					
Magnesia	5 989	4 904	10 987	8 714	9 795
Poland					
Magnesite	216	2 658	3 966	1 375	1 948
Magnesia	109 646	81 304	113 757	137 148	116 632

Imports continued

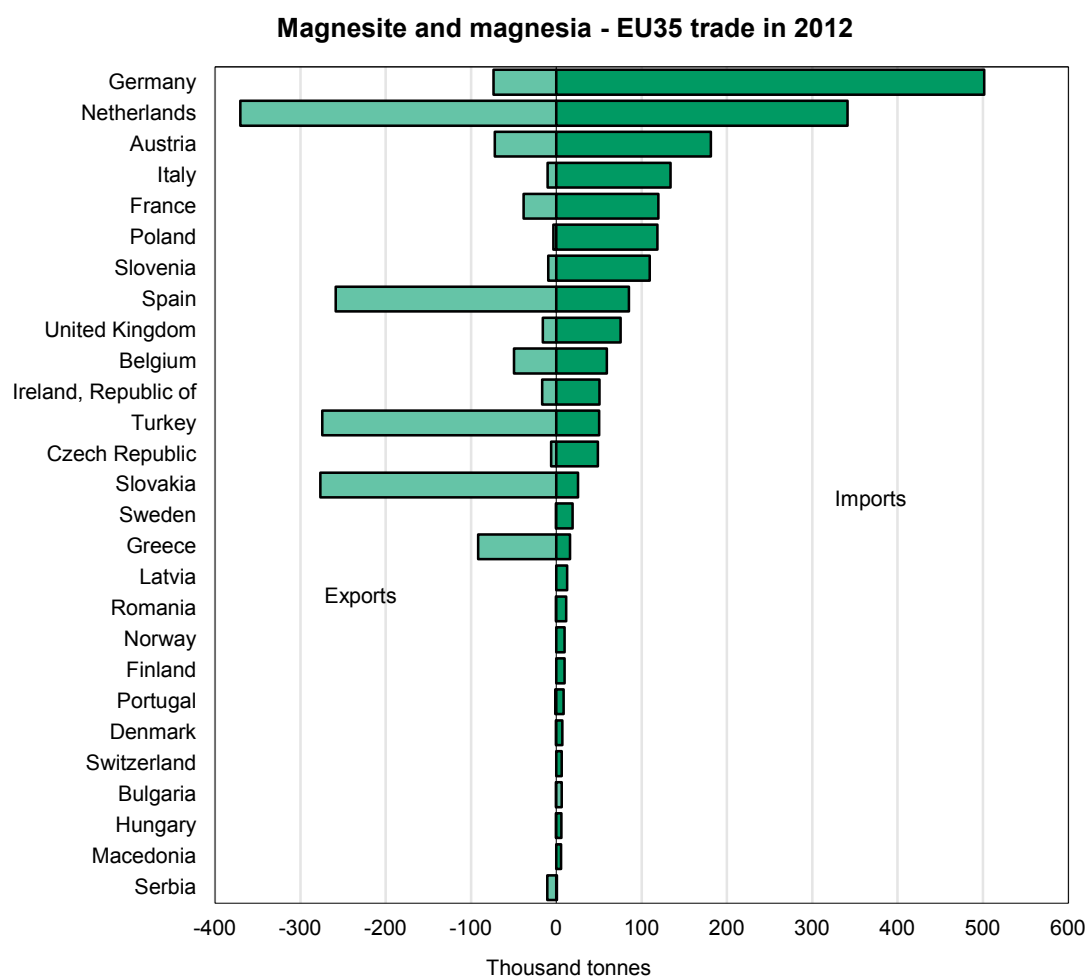
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Country	2008	2009	2010	2011	2012
Portugal					
Magnesite	1 521	697	1 162	1 379	1 249
Magnesia	5 863	8 538	4 504	5 523	7 130
Romania					
Magnesia	13 003	7 427	10 389	13 391	11 402
Serbia					
Magnesia	840	585	570	547	623
Slovakia					
Magnesite	3 401	2 906	3 916	4 960	(a)* 2 000
Magnesia	40 675	12 731	28 639	27 100	23 363
Slovenia	8 272	4 346	7 279	64 675	109 365
Spain					
Magnesite	2 839	10 029	3 926	6 164	2 695
Magnesia	143 849	42 980	94 840	97 566	82 320
Sweden					
Magnesia	14 701	15 832	12 004	20 425	19 081
Switzerland					
Magnesite	69	502	362	793	521
Magnesia	7 772	4 762	4 625	4 917	5 734
Turkey					
Magnesia	61 519	40 595	60 121	58 556	50 199
United Kingdom					
Magnesite	7 016	3 567	8 640	7 903	5 059
Magnesia	59 300	43 873	49 076	52 263	70 330

Note(s)

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

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



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 2012, with an estimated 31 per cent of the total world output. The second largest was South Africa (19 per cent), followed by Australia (15 per cent), Gabon (seven per cent) and Kazakhstan (six per cent).

Production of manganese ore

tonnes

Country	2008	2009	2010	2011	2012
Bulgaria	39 100	28 300	106 000	85 600	39 100
Hungary	49 579	43 000	55 000	58 000	* 51 000
Romania	43 590	20 304	13 120	3 180	8 993
EU35 Total	132 000	92 000	174 000	147 000	99 000

EU35 Production of manganese ore 2008 - 12



Exports of manganese

tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Ores and concentrates	8 578	5 192	4 444	9 982	4 236
Metal	1 947	714	1 185	1 625	1 447
Bulgaria					
Ores and concentrates	17 369	29 715	163 257	91 110	76 140
Czech Republic					
Ores and concentrates	101	—	—	50	383
Estonia					
Metal	226	137	5	25	10
Finland					
Metal	98	341	32	25	2
France					
Ores and concentrates (a)	321 638	138 787	152 425	125 827	118 915
Metal	488	631	717	805	1 081
Germany					
Ores and concentrates	3 321	3 710	4 480	5 035	4 387
Metal	12 921	6 727	8 243	8 907	13 598
Italy					
Metal	494	326	716	963	897
Netherlands					
Ores and concentrates	19 103	28 701	21 806	29 097	27 154
Metal	19 144	15 642	38 159	44 310	29 855
Norway					
Ores and concentrates	10 266	9 214	10 709	2 600	39 355
Metal	1 363	59	112	462	95
Poland					
Metal	35	603	2 875	41	97
Romania					
Metal	6 666	—	—	—	102
Spain					
Ores and concentrates	518	21 456	707	623	621
Metal	4 562	3 386	1 297	1 735	4 665
Turkey					
Ores and concentrates	81 280	59 183	51 731	100 172	118 953
Metal	401	81	4 952	12	3 535
United Kingdom					
Ores and concentrates	244	65	97	129	101
Metal (b)	* 3 200	* 2 200	* 2 000	* 2 100	*1 600

Note(s)

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

(a) Including manganiferous iron ore

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

Imports of manganese

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Ores and concentrates	215	184	152	334	222
Metal	14 275	11 512	16 696	21 123	21 692
Belgium					
Ores and concentrates	83 909	61 980	49 731	49 393	50 509
Metal	4 423	3 076	4 377	5 466	4 636
Czech Republic					
Ores and concentrates	15 715	16 063	25 758	28 810	335
Metal	2 542	2 219	984	907	521
Denmark					
Ores and concentrates	698	1 158	257	1 051	352
Estonia					
Metal	478	168	576	85	—

Manganese

Imports continued

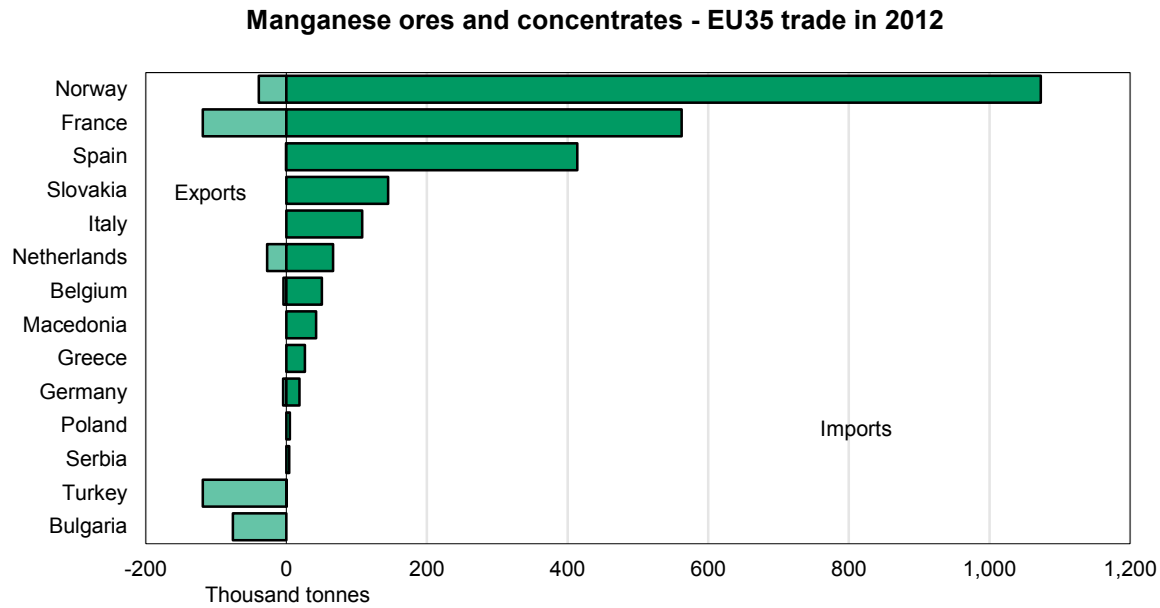
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Country	2008	2009	2010	2011	2012
Finland					
Ores and concentrates	24 926	12 224	21 961	3 792	329
Metal	2 649	912	2 134	2 123	2 144
France					
Ores and concentrates (a)	876 961	193 684	721 272	647 182	562 298
Metal	19 115	8 905	17 586	21 186	9 231
Germany					
Ores and concentrates (a)	14 916	14 645	17 346	19 137	18 532
Metal	47 581	33 989	43 346	40 705	35 671
Greece					
Ores and concentrates	51 425	31 776	22 888	51 374	26 294
Hungary					
Ores and concentrates	293	220	198	159	142
Metal	1 185	280	336	461	500
Ireland, Republic of					
Ores and concentrates (a)	75	65	54	9 565	31
Italy					
Ores and concentrates (a)	114 289	77 075	55 284	81 629	107 907
Metal	5 839	3 709	5 788	5 759	5 804
Macedonia					
Ores and concentrates	170 455	...	56 893	110 589	42 109
Netherlands					
Ores and concentrates	10 664	9 398	23 045	33 555	66 281
Metal	35 573	19 083	50 866	35 618	40 131
Norway					
Ores and concentrates	1 232 799	525 674	1 121 716	1 085 383	1 072 991
Metal	2 595	1 297	1 974	2 697	1 636
Poland					
Ores and concentrates	54 087	1 930	4 345	4 509	4 951
Metal	716	507	1 514	436	764
Portugal					
Ores and concentrates	765	13	68	56	168
Romania					
Ores and concentrates	16 432	16	87 880	66 285	244
Metal	646	527	220	588	415
Serbia					
Ores and concentrates	12 981	16 833	17 003	14 366	4 229
Metal	233	180	324	317	254
Slovakia					
Ores and concentrates	211 653	74 712	146 434	130 519	144 936
Metal	350	395	442	659	228
Slovenia					
Metal	438	264	433	420	483
Spain					
Ores and concentrates	640 677	54 606	407 450	508 794	413 613
Metal	10 033	3 994	7 510	10 951	6 470
Sweden					
Ores and concentrates	388	854	522	438	412
Metal	3 287	1 880	3 815	5 241	3 438
Switzerland					
Ores and concentrates	472	340	214	333	357
Metal	472	282	556	509	490
Turkey					
Ores and concentrates	2 531	540	694	1 295	534
Metal	874	583	980	1 202	863
United Kingdom					
Ores and concentrates (a)	4 133	941	1 517	1 656	1 597
Metal	8 773	4 123	6 619	5 444	3 721

Note(s)

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

(a) Including manganiferous iron ore



Mercury

- Mercury is the only metallic element that is liquid at room temperature. The chief economic sources are deposits of the mineral cinnabar but mercury is also recovered from base metal refining. Mercury's main uses are in electrical switches and other control apparatus, and in dental amalgam. Large amounts remain in use in chlor-alkali plants and in batteries but these applications are being phased out.
- Only nine countries commercially extracted mercury in 2012. China was the world's largest producer, with 71 per cent of the total world output. The second largest was Mexico (14 per cent), followed by Kyrgyzstan (four per cent), Russia and Chile (three per cent each).

Production of mercury

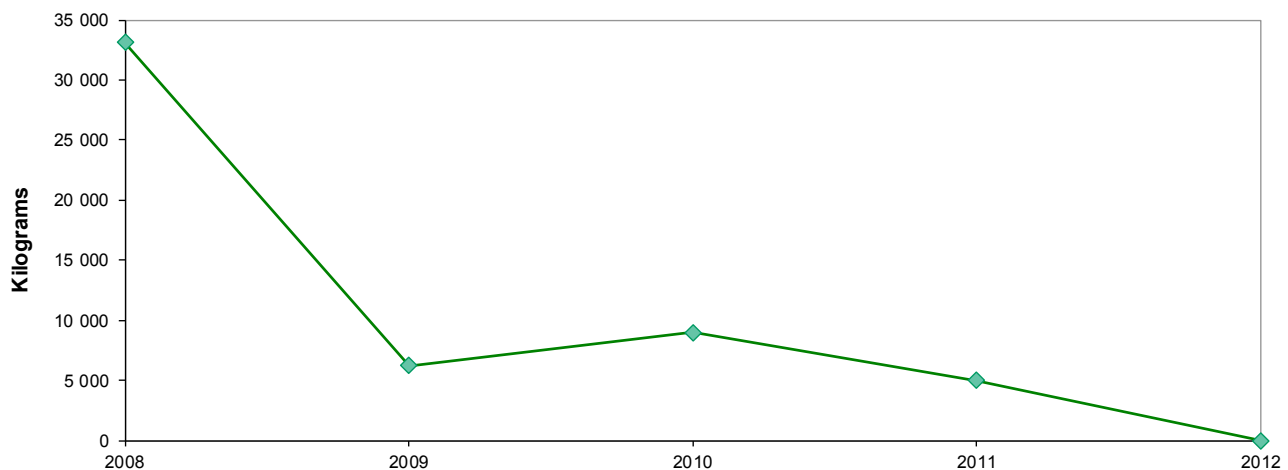
kilograms

Country	2008	2009	2010	2011	2012
Finland	33 120	6 210	9 000	5 000	—

Note(s)

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

EU35 Production of mercury 2008 - 12



Exports of mercury

kilograms

Country	2008	2009	2010	2011	2012
Austria	200	2 000	(a)* 3 300	(a)* 1 600	(a)* 500
Belgium	110 800	1 400	11 500	600	8 700
Czech Republic	6 300	6 400	1 100	1 700	193
Finland	35 000	6 211	9 321	4 830	—
France	1 700	718	1 595	49 992	2 233
Germany	111 100	120 587	110 405	197 989	102 650
Hungary	...	...	6 400	10 700	6 500
Italy	84 247	89 228	202 273	68 623	12 706
Netherlands	192 605	419 480	195 272	72 020	67 263
Poland	17 700	46 200	106 100	7 300	—
Portugal	300	—	200	6 700	25 600
Spain	639 203	376 885	964 922	824 421	950 824
Sweden	500	2 100	95 600	...	1 000
Switzerland	11 592	25 372	8 529	53 581	164 517
Turkey	22 885	89	2 156	10 890	4 392
United Kingdom	6 369	178 571	9 321	5 368	2 991

Note(s)

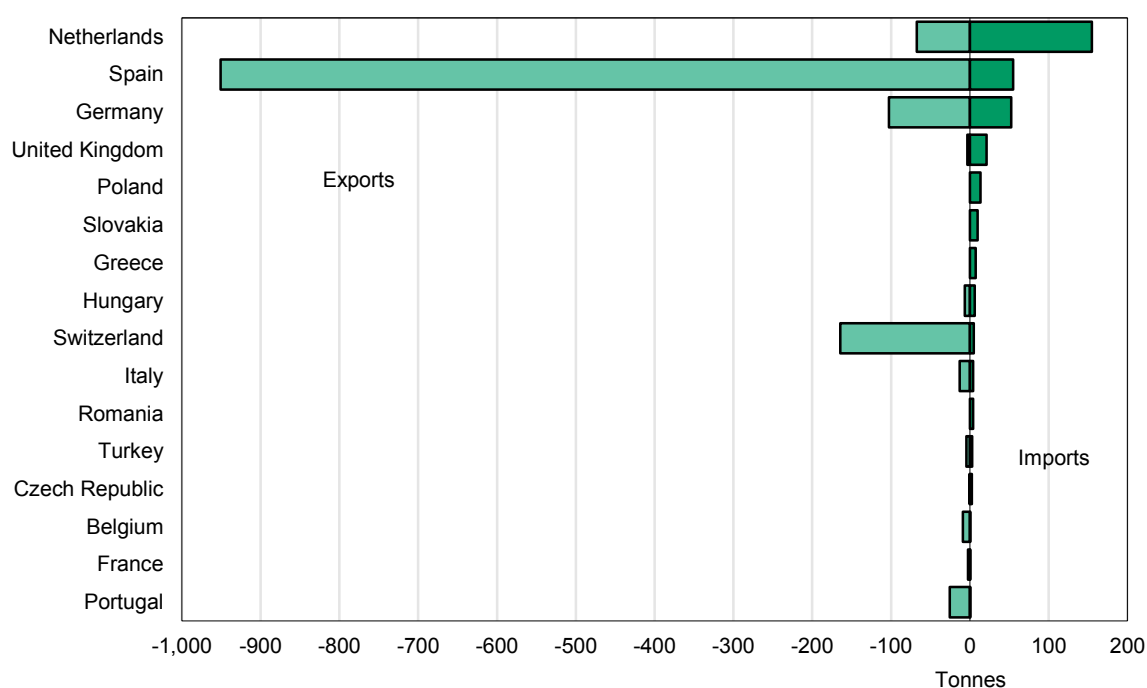
(a) BGS estimates, based on known imports into certain countries

Imports of mercury

kilograms

Country	2008	2009	2010	2011	2012
Austria	587	360	383	200	294
Belgium	133 100	15 700	57 200	12 500	505
Czech Republic	3 700	4 400	2 400	4 400	2 600
Finland	209	2 136	2 203	4 069	36
France	105 300	222 224	19 073	1 406	252
Germany	19 700	28 678	104 241	134 666	52 469
Greece	2 628	668	211	1 200	7 500
Hungary	4 293	4 800	5 000	8 400	6 100
Ireland, Republic of	979	1 182	8 582	24	81
Italy	21 754	19 992	10 510	15 246	4 247
Netherlands	293 481	* 101 000	30 636	213 259	154 983
Poland	13 300	10 900	4 300	39 900	13 700
Portugal	7 500	25 100	152 900	125 400	59
Romania	2 325	415	18 149	19 500	4 200
Slovakia	5 200	4 500	4 700	27 700	10 000
Spain	337 117	467 614	335 852	54 748	54 994
Sweden	13 800	21 300	2 700	2 400	1 400
Switzerland	3 557	801	1 370	471	5 096
Turkey	3 069	1 635	719	9 772	3 143
United Kingdom	2 387	1 121	22 065	425	21 138

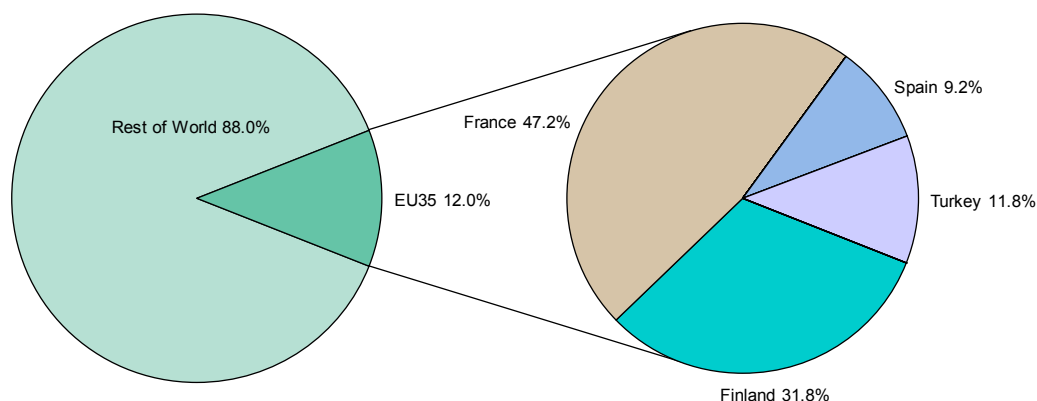
Mercury - EU35 trade in 2012



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 as a decorative material.
- China was the world's largest producer in 2012, with an estimated 47 per cent of the total world output. The second largest was USA (14 per cent), followed by South Korea (eight per cent), France (six per cent) and Canada (five per cent).

EU35 Production of mica 2012



Production of mica

tonnes

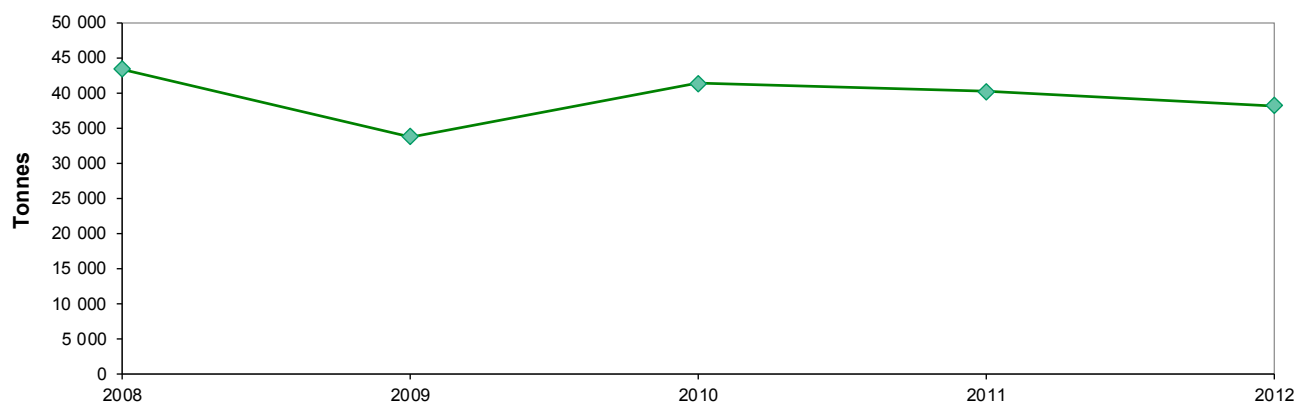
Country	2008	2009	2010	2011	2012
Finland	10 706	7 855	13 809	12 896	12 112
France (a)	* 20 000	* 18 000	* 19 000	* 19 000	* 18 000
Spain (a)	4 254	3 655	4 034	3 775	3 515
Turkey	8 392	4 172	* 4 500	* 4 500	* 4 500
EU35 Total	43 000	34 000	41 000	40 000	38 000

Note(s)

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

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

EU35 Production of mica 2008 - 12



Exports of mica

tonnes

Country	2008	2009	2010	2011	2012
Austria	4 274	3 328	4 303	4 245	4 024
Belgium	2 127	1 562	1 590	2 363	3 587
Czech Republic	49	59	96	163	212
Finland	7 138	6 125	11 377	8 636	9 242
France	13 923	10 819	12 455	12 821	11 771
Germany	4 713	2 888	4 197	4 479	4 474
Italy	3 211	857	697	1 014	1 138
Netherlands	1 341	3 214	1 687	2 396	1 986
Norway	2 640	1 835	2 078	2 144	2 093
Spain					
Unmanufactured	1 259	563	1 339	1 823	1 826
Ground	1 368	1 521	2 269	2 193	1 993
Turkey	840	570	601	1 039	1 054
United Kingdom	4 749	3 944	4 137	4 238	3 639

Note(s)

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

Imports of mica

tonnes

Country	2008	2009	2010	2011	2012
Austria	857	492	874	656	625
Belgium					
Unmanufactured	2 155	3 454	2 636	2 395	4 331
Ground	5 409	3 507	4 086	4 722	3 314
Waste	2 067	45	8	120	1 212
Czech Republic	1 958	981	2 513	740	915
Denmark	276	242	237	150	148
Finland	4 383	1 988	3 647	3 351	2 267
France					
Unmanufactured	1 144	370	255	848	488
Ground	2 031	1 844	1 861	2 149	1 828
Germany					
Unmanufactured	386	221	1 330	10 527	8 934
Ground	33 175	25 682	29 716	26 405	24 116
Waste	966	316	428	20	—
Greece	218	317	169	175	155
Ireland, Republic of	291	43	77	24	32
Italy					
Unmanufactured	106	417	136	209	205
Ground	3 980	2 597	3 854	3 849	3 489
Netherlands					
Unmanufactured	751	523	191	419	418
Ground	2 618	3 490	21 756	20 744	4 632
Norway					
Unmanufactured	1 174	1 021	1 224	1 573	1 964
Ground	1 243	1 140	1 179	294	285
Poland	880	1 134	1 150	2 019	1 504
Portugal	125	139	284	288	258
Romania	488	441	785	1 077	810
Spain	952	1 467	1 183	1 534	1 017
Sweden	755	721	673	545	419
Switzerland	1 088	669	1 226	866	893
Turkey	385	477	317	508	285
United Kingdom					
Unmanufactured	377	328	43	243	407
Ground	7 061	6 396	7 341	7 926	9 203
Waste	2 030	49	902	0	—

Note(s)

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

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 2012 was confined to only 12 countries, of which China was the world's largest producer, with 42 per cent of the total world output. The second largest was USA (23 per cent), followed by Chile (14 per cent), Peru (seven per cent) and Mexico (four per cent).

Exports of molybdenum

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metal (a)	* 3 000	* 1 800	* 2 300	* 2 800	* 2 500
Belgium					
Ores and concentrates	11 314	15 581	24 396	25 337	19 444
Metal	243	105	371	128	204
Oxides	379	91	83	366	688
Bulgaria					
Metal	123	132	122	355	133
France					
Ores and concentrates	55	75	205	352	81
Metal	118	34	47	36	317
Germany					
Ores and concentrates	3 575	2 502	5 017	3 955	3 738
Metal	2 857	725	763	1 248	1 395
Italy					
Ores and concentrates	159	205	1 523	2 299	3 153
Metal	873	488	911	443	409
Oxides	604	982	443	286	22
Netherlands					
Ores and concentrates	16 284	4 408	17 126	19 765	24 083
Metal	282	46	249	492	128
Oxides	4 253	1 805	6 429	6 434	6 407
Spain					
Metal	18	68	243	14	69
United Kingdom					
Ores and concentrates	64	35	305	3	64
Metal	241	433	572	403	375

Note(s)

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

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

Imports of molybdenum

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metal	1 502	430	548	951	440
Belgium					
Ores and concentrates	37 964	37 101	46 899	42 498	39 523
Metal	358	344	142	235	304
Oxides	2 075	968	694	1 204	1 659
Bulgaria					
Metal	15	47	10	193	9
Czech Republic					
Ores and concentrates	284	1 040	184	118	79
Metal	560	127	82	104	57
Denmark					
Oxides	361	388	418	253	345
Finland					
Ores and concentrates	3 498	40	—	...	—
France					
Ores and concentrates	1 933	769	1 209	1 764	1 575
Metal	1 094	541	888	1 098	942
Oxides	1 191	1 018	1 095	1 465	1 365
Germany					
Ores and concentrates	9 645	6 953	9 134	9 500	7 158
Metal	4 132	1 726	3 038	3 761	4 016
Oxides	1 905	1 661	2 890	2 699	2 385
Greece					
Metal	60	58	45	50	49
Hungary					
Metal	102	69	70	60	51
Italy					
Ores and concentrates	6 220	6 703	9 108	5 248	4 794
Metal	254	171	136	219	192
Oxides	125	176	276	199	187
Lithuania					
Metal	6	7	65	37	45
Netherlands					
Ores and concentrates	36 305	9 555	35 335	40 562	39 782
Metal	572	84	274	261	236
Oxides	859	230	594	865	596
Poland					
Metal	843	281	889	1 292	72
Oxides	71	80	162	198	237
Romania					
Ores and concentrates	...	...	...	...	1 516
Slovakia					
Metal	24	106	1	2	2
Slovenia					
Ores and concentrates	690	292	561	523	473
Spain					
Ores and concentrates	3 787	1 724	2 585	3 572	3 041
Metal	189	236	239	83	78
Sweden					
Ores and concentrates	4 645	2 514	5 487	5 893	6 110
Metal	442	470	644	360	356
Oxides	711	219	414	357	496
Turkey					
Ores and concentrates	3	291	46	12	14
Metal	89	16	28	34	35
United Kingdom					
Ores and concentrates	15 130	9 007	12 581	15 844	16 041
Metal	2 102	707	1 099	1 415	1 487
Oxides	1 433	510	1 638	2 316	1 971

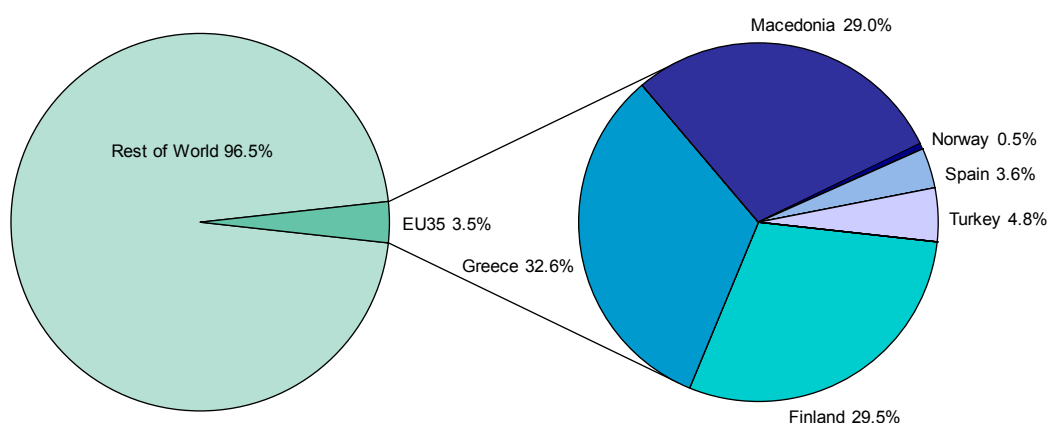
Note(s)

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

Nickel

- Nickel is a hard, strong, corrosion-resistant, malleable and ductile metal that is a good conductor of heat and electricity. Its most important use is in steel alloys where it imparts strength and toughness. It is also widely used in plating, both metals and plastics, and combined with copper in cupro-nickel alloys.
- The Philippines was the world's largest producer of mined nickel in 2012, with 17 per cent of the total world output. The second largest was Russia (14 per cent), followed by Indonesia and Australia (13 per cent each) and Canada (11 per cent).
- China was the world's largest producer of refined nickel in 2012, with 29 per cent of the total world output. The second largest was Russia (14 per cent), followed by Japan (ten per cent), Canada (eight per cent) and Australia (seven per cent).

EU35 Mine production of nickel 2012

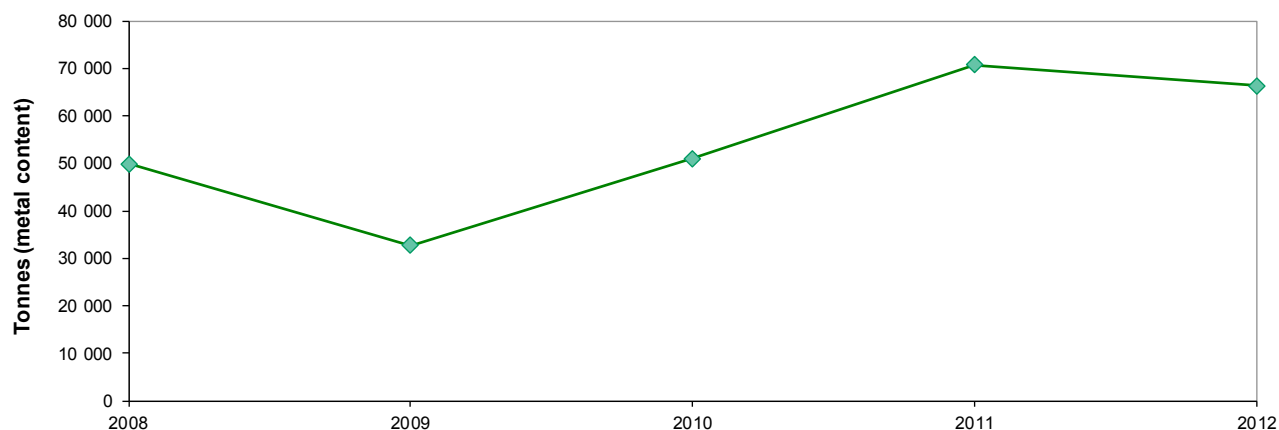


Mine production of nickel

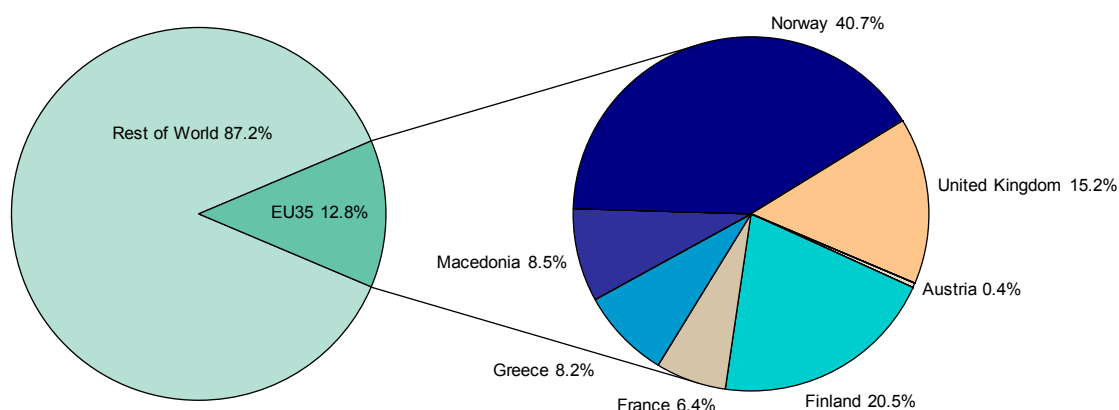
tonnes (metal content)

Country	2008	2009	2010	2011	2012
Finland	6 200	1 600	12 100	18 800	19 568
Greece	18 600	9 600	16 100	21 700	21 600
Macedonia	15 000	12 000	14 200	25 600	19 200
Norway	377	336	348	339	351
Spain	8 136	8 029	6 296	—	2 398
Turkey	* 1 500	1 199	* 1 900	* 4 300	* 3 200
EU35 Total	49 800	32 800	50 900	70 700	66 300

EU35 Mine production of nickel 2008 - 12



EU35 Smelter/refinery production of nickel 2012



Smelter/refinery production of nickel

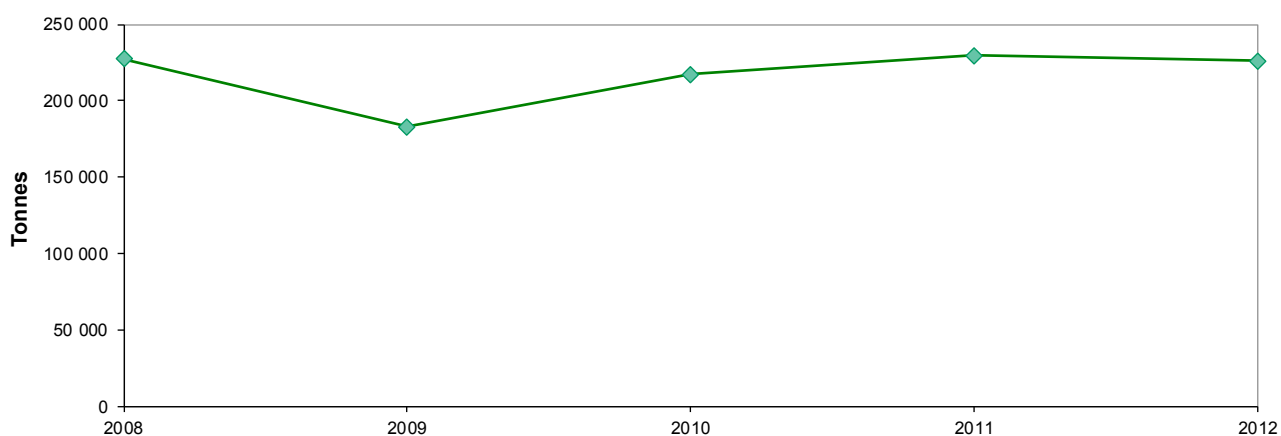
tonnes

Country	2008	2009	2010	2011	2012
Austria	500	700	1 000	1 000	1 000
Finland	51 963	41 556	49 772	49 823	46 275
France	13 700	13 900	14 400	13 700	14 500
Greece	16 640	8 269	13 960	18 530	18 630
Macedonia	15 000	12 000	14 400	17 292	19 200
Norway	88 700	88 577	92 185	92 000	92 000
United Kingdom	40 800	17 800	31 600	37 400	34 300
EU35 Total	227 300	182 800	217 300	229 700	225 900

Note(s)

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

EU35 Smelter/refinery production of nickel 2008 - 12



Exports of nickel

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought (a)	225	265	208	234	351
Scrap	1 910	1 775	1 606	2 709	2 633
Belgium					
Ores and concentrates	2 750	1 212	724	1 161	—
Mattes, sinters etc	115	921	697	2 380	3 328
Unwrought	13 298	11 883	9 271	9 684	11 517
Unwrought alloys	2 152	2 479	1 357	1 838	3 838
Oxides	1 196	834	221	910	498
Scrap	2 872	6 883	3 443	7 430	2 407
Bulgaria					
Scrap	48	364	1 220	2	...
Czech Republic					
Unwrought (a)	758	228	126	272	725
Oxides	643	275	341	338	380
Scrap	601	2 420	4 558	3 427	6 851
Denmark					
Scrap	642	1 063	1 765	1 244	590
Estonia					
Unwrought	(a) 2	(a) —	(a) 2	2	539
Scrap	1 680	89	0	536	144
Finland					
Ores and concentrates	14 069	—	8 946	23 411	55 260
Mattes, sinters etc	...	...	...	7 732	13 387
Unwrought	40 108	37 202	(a) 31 275	(a) 39 472	36 364
Oxides (b)	* 500	* 200	* 500	* 200	* 200
Scrap	27	1 511	323	33	39
France					
Mattes, sinters etc	178	68	315	1 306	1 384
Unwrought	10 754	12 095	9 376	10 997	11 477
Unwrought alloys	2 475	1 377	1 307	1 875	1 818
Scrap	7 558	11 435	30 601	11 685	12 683
Germany					
Ores and concentrates	316	1 619	2 673	299	778
Mattes, sinters etc	20 202	8 687	13 981	15 998	19 412
Unwrought	5 200	2 617	3 751	4 184	4 808
Unwrought alloys	8 988	3 083	1 866	4 423	5 036
Scrap	5 646	8 227	9 563	8 600	7 727
Greece					
Ores and concentrates	231	144 529	20 284	120	86
Hungary					
Scrap	81	203	170	126	126
Ireland, Republic of					
Scrap	236	220	557	269	208
Italy					
Unwrought (a)	972	1 293	2 408	2 097	2 182
Scrap	658	541	3 537	627	1 260
Latvia					
Unwrought alloys	2	165	112	116	2
Scrap	199	3 301	3 108	2 284	150
Macedonia					
Ores and concentrates	...	0	60 181	25 579	16 219
Netherlands					
Mattes, sinters etc (b)	* 2 400	* 2 900	* 1 800	* 2 400	* 1 400
Unwrought (a)	117	105	165	49 681	46 929
Scrap	4 614	1 711	1 956	1 793	1 405
Norway					
Ores and concentrates	8 093	2 464	4 818	7 598	7 969
Unwrought	88 940	88 080	91 813	92 705	91 591
Scrap	394	274	1 042	582	499
Poland					
Mattes, sinters etc	...	1 443	1 134	—	—
Unwrought (a)	334	172	1 876	252	917
Oxides	759	260	38	29	5
Scrap	647	260	416	749	709

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Romania					
Scrap	1 397	1 089	816	561	66
Slovakia					
Unwrought	259	201	68	84	—
Scrap	1 061	140	295	1 368	217
Slovenia					
Unwrought (a)	268	117	1 544	520	692
Spain					
Ores and concentrates	127 812	102 105	93 536	26 597	20 632
Unwrought (a)	600	573	738	400	430
Scrap	226	875	366	376	454
Sweden					
Unwrought (a)	288	522	497	599	1 690
Oxides	511	363	534	516	429
Scrap	1 513	1 376	1 022	1 137	13 853
Switzerland					
Unwrought (a)	94	53	173	130	62
Scrap	1 603	1 519	1 090	909	1 214
Turkey					
Ores and concentrates	130 179	99 700	172 682	378 350	302 100
Unwrought (a)	232	141	292	96	204
Scrap	734	470	519	841	783
United Kingdom					
Unwrought	26 235	15 834	18 639	28 994	30 322
Unwrought alloys	4 378	4 753	4 530	6 025	6 711
Scrap	18 229	12 693	19 361	17 405	33 614

Note(s)

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

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

(a) Including alloys

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

Imports of nickel

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought (a)	10 511	4 142	6 894	9 231	8 830
Oxides	82	11	15	8	247
Scrap	1 164	367	440	527	1 917
Belgium					
Mattes, sinters etc	1 250	499	330	598	1 541
Unwrought	29 492	12 037	15 052	19 170	19 032
Unwrought alloys	723	1 915	469	574	3 035
Oxides	618	565	700	1 033	576
Scrap	566	288	918	1 553	1 907
Bulgaria					
Unwrought (a)	204	90	125	201	172
Czech Republic					
Unwrought (a)	3 728	2 179	2 223	3 750	2 799
Oxides	838	319	393	399	307
Scrap	473	1 468	1 257	178	1 311
Denmark					
Scrap	100	122	382	234	227
Finland					
Ores and concentrates	290 914	185 202	217 164	276 892	276 587
Mattes, sinters etc	33 247	22 715	33 986	35 284	30 443
Unwrought	18 187	9 192	14 558	9 946	—
Unwrought alloys	14	792	17 649	2 688	—
Scrap	481	149	17	40	8

Nickel

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
France					
Ores and concentrates	413	1 783	265	37	290
Mattes, sinters etc	18 952	20 015	19 921	19 954	19 395
Unwrought	23 368	10 909	13 964	21 693	24 002
Unwrought alloys	9 386	5 364	5 029	7 345	5 466
Oxides	560	310	524	412	114
Scrap	2 166	1 265	2 164	2 988	2 713
Germany					
Ores and concentrates	1 310	1 087	1 667	1 184	8 185
Mattes, sinters etc	797	561	849	2 048	1 869
Unwrought	68 767	42 201	69 282	68 023	73 360
Unwrought alloys	6 102	3 839	8 023	11 778	23 191
Oxides	617	463	621	476	608
Scrap	18 316	8 259	8 584	11 924	14 191
Hungary					
Unwrought (a)	69	219	346	35	47
Ireland, Republic of					
Unwrought (a)	1 118	626	1 503	1 748	568
Italy					
Unwrought	42 339	25 833	39 586	38 075	33 635
Unwrought alloys	2 164	2 841	1 171	1 314	2 626
Scrap	892	763	1 063	656	899
Latvia					
Unwrought	3	1	...	...	(a) 584
Macedonia					
Ores and concentrates	789 929	985 925	1 210 300	1 393 490	1 518 156
Netherlands					
Ores and concentrates	11	* 220	5 940	9 544	744
Unwrought	...	...	...	230 179	32 005
Unwrought alloys	1 227	227	638	3 548	982
Oxides (b)	* 30	* 70	* 50	* 70	* 150
Scrap	12 647	4 666	21 724	4 607	2 584
Norway					
Mattes, sinters etc	178 502	153 437	170 365	199 173	190 275
Unwrought	(a) 201	(a) 199	(a) 235	(a) 246	250
Poland					
Mattes, sinters etc	...	1 468	1 223	7	—
Unwrought (a)	3 398	1 353	3 350	2 722	3 189
Oxides	44	34	38	28	263
Scrap	3 683	2 122	341	603	325
Portugal					
Unwrought	524	316	312	221	285
Romania					
Unwrought (a)	338	288	456	224	190
Serbia					
Unwrought	174	116	143	107	118
Slovakia					
Unwrought (a)	190	120	112	617	103
Scrap	11	—	52	312	35
Slovenia					
Unwrought (a)	2 686	2 020	2 967	3 230	4 304
Spain					
Unwrought	22 668	12 290	16 468	17 567	20 230
Unwrought alloys	1 547	821	1 125	966	1 368
Oxides	151	50	329	323	131
Scrap	120	236	151	806	554
Sweden					
Mattes, sinters etc	1 490	1 607	1 239	1 723	1 008
Unwrought	25 474	16 544	23 375	23 191	17 878
Unwrought alloys	1 317	661	397	216	542
Scrap	12 215	8 709	10 491	10 332	8 801
Switzerland					
Unwrought (a)	2 054	1 202	1 370	1 199	1 320
Turkey					
Unwrought (a)	4 038	2 711	3 391	4 047	4 012

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Ores and concentrates	241	150	16	1	—
Mattes, sinters etc	63 553	25 929	50 263	58 519	57 108
Unwrought	16 888	8 003	14 200	12 707	11 521
Unwrought alloys	3 210	3 596	3 310	4 644	4 771
Scrap	10 291	9 593	8 154	6 741	9 237

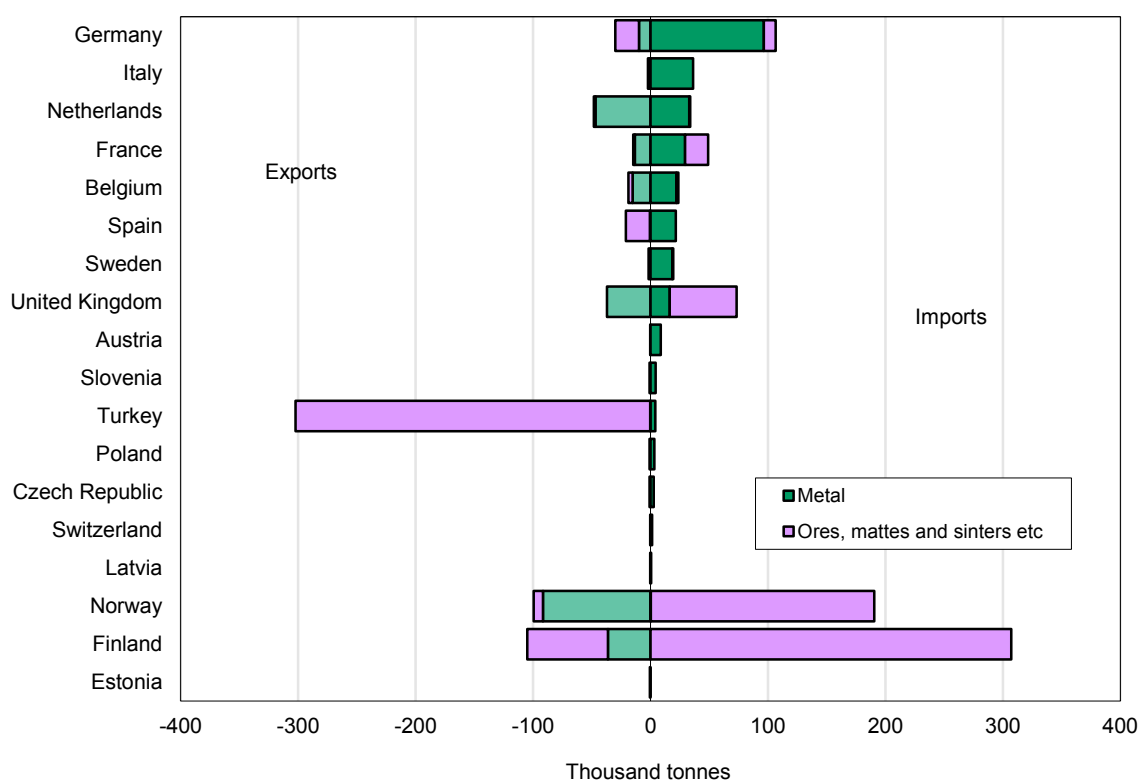
Note(s)

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

(a) Including alloys

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

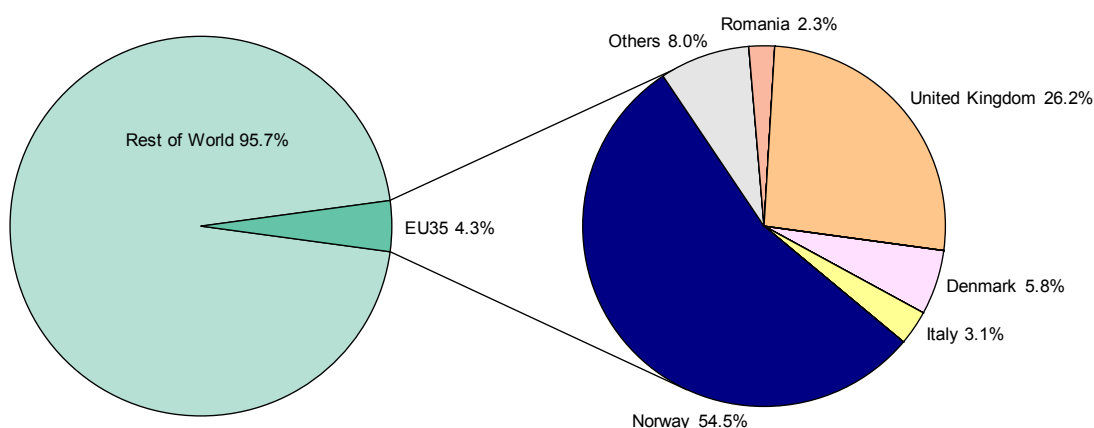
Nickel - EU35 trade in 2012



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 2012, with 14 per cent of the total world output. The second largest was Russia (13 per cent), followed by USA (eight per cent), China (five per cent) and Iran (four per cent).

EU35 Production of crude petroleum 2012



Production of crude petroleum

tonnes

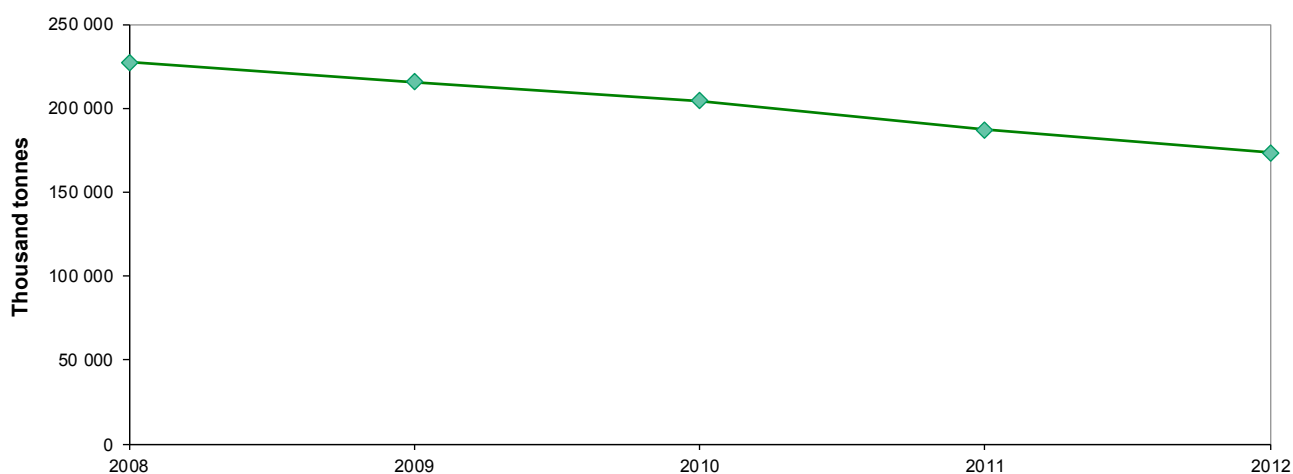
Country	2008	2009	2010	2011	2012
Austria	861 639	905 031	875 969	838 052	837 561
Bulgaria	23 000	23 800	22 400	21 400	22 900
Croatia	867 027	807 424	748 791	664 440	597 246
Czech Republic	236 000	217 000	173 000	163 000	150 000
Denmark	14 338 000	13 045 000	12 090 000	10 908 900	10 086 000
Estonia (a)	1 869 500	1 733 000	2 080 000	2 173 132	2 180 313
France	975 000	971 000	903 000	901 000	888 000
Germany	3 053 998	2 800 063	2 511 174	2 677 136	2 621 352
Greece	66 000	87 000	86 000	87 126	83 143
Hungary	811 000	796 000	735 900	657 000	700 931
Italy	5 219 751	4 550 816	5 080 498	5 286 042	5 376 629
Lithuania	127 658	114 956	114 464	113 895	101 644
Netherlands	2 163 000	1 704 000	1 414 000	1 464 000	1 467 000
Norway	121 611 000	115 612 000	105 146 000	100 343 000	94 497 000
Poland	754 907	686 992	686 487	618 163	677 664
Romania	4 528 000	4 388 940	4 172 411	4 081 979	3 992 011
Serbia	636 383	663 005	865 499	1 020 490	1 124 794
Slovakia	21 000	19 000	16 000	18 000	14 000
Slovenia	174	138	233	263	279
Spain	127 542	106 817	121 528	99 925	143 526
Turkey	2 222 594	2 489 914	2 602 114	2 383 000	2 334 000
United Kingdom	66 745 000	64 001 000	63 903 000	52 650 000	45 431 000
EU35 Total	227 300 000	215 700 000	204 300 000	187 200 000	173 300 000

Note(s)

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

(a) From oil shale

EU35 Production of crude petroleum 2008 - 12



Exports of crude petroleum

tonnes

Country	2008	2009	2010	2011	2012
Belgium	2 496 349	2 390 390	2 593 653	2 278 613	2 085 993
Czech Republic	18 130	21 600	18 239	18 685	21 470
Denmark	8 593 198	8 520 980	7 363 518	6 899 354	5 896 071
France	65	1 689	161 761	467 914	427 246
Germany	40 011	265 799	180 515	283 784	138 712
Ireland, Republic of	—	11	96	46 629	62
Italy	1 195 500	619 630	423 777	713 237	920 740
Latvia	...	93	524	42 208	45 767
Lithuania	128 838	113 172	110 597	80 025	78 183
Netherlands	328 795	184 860	340 357	81 621	396 475
Norway	91 299 591	87 982 743	79 030 886	70 031 846	64 341 641
Poland	34 871	17 227	3	186 730	211 223
Romania	...	...	78 256	76 061	48 688
Slovakia	18 159	14 932	13 048	15 359	11 515
Spain (a)	* 24 000	* 400	* 164 000	* 300	* 240 000
Sweden	3	45	2	3 105	22 040
Turkey (a)	* 4 115 000	* 2 956 000	* 1 139 000	* 702 000	* 99 000
United Kingdom	43 354 245	43 550 953	41 591 305	34 304 184	33 679 090

Note(s)

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

Imports of crude petroleum

tonnes

Country	2008	2009	2010	2011	2012
Austria	7 945 639	7 428 183	6 770 069	7 358 582	7 463 478
Belgium	35 556 835	32 376 828	35 234 358	34 059 177	35 087 312
Bulgaria	7 262 658	5 770 397	5 355 541	4 999 511	5 901 767
Croatia	3 476 266	4 044 874	3 517 452	2 838 313	2 324 685
Czech Republic	8 141 759	7 451 765	7 770 418	6 968 871	7 024 223
Denmark	2 240 240	3 320 486	2 562 669	2 625 412	3 150 386
Finland	11 908 304	11 516 562	11 211 580	11 504 505	11 088 493
France	81 854 226	70 343 956	59 946 970	62 875 826	56 890 280
Germany	105 835 665	97 648 203	91 239 711	87 338 296	92 277 990
Greece	6 422 841	2 437 424	19 064 118	13 010 825	20 102 882
Hungary	(a)* 6 959 000	(a)* 6 241 000	5 310 899	5 935 772	5 489 453
Ireland, Republic of	2 878 397	2 792 968	2 931 391	2 720 968	2 843 575
Italy	82 998 642	76 301 866	76 729 305	72 173 373	68 812 837
Lithuania	9 325 904	8 413 067	9 018 334	8 943 996	8 523 368

Imports continued

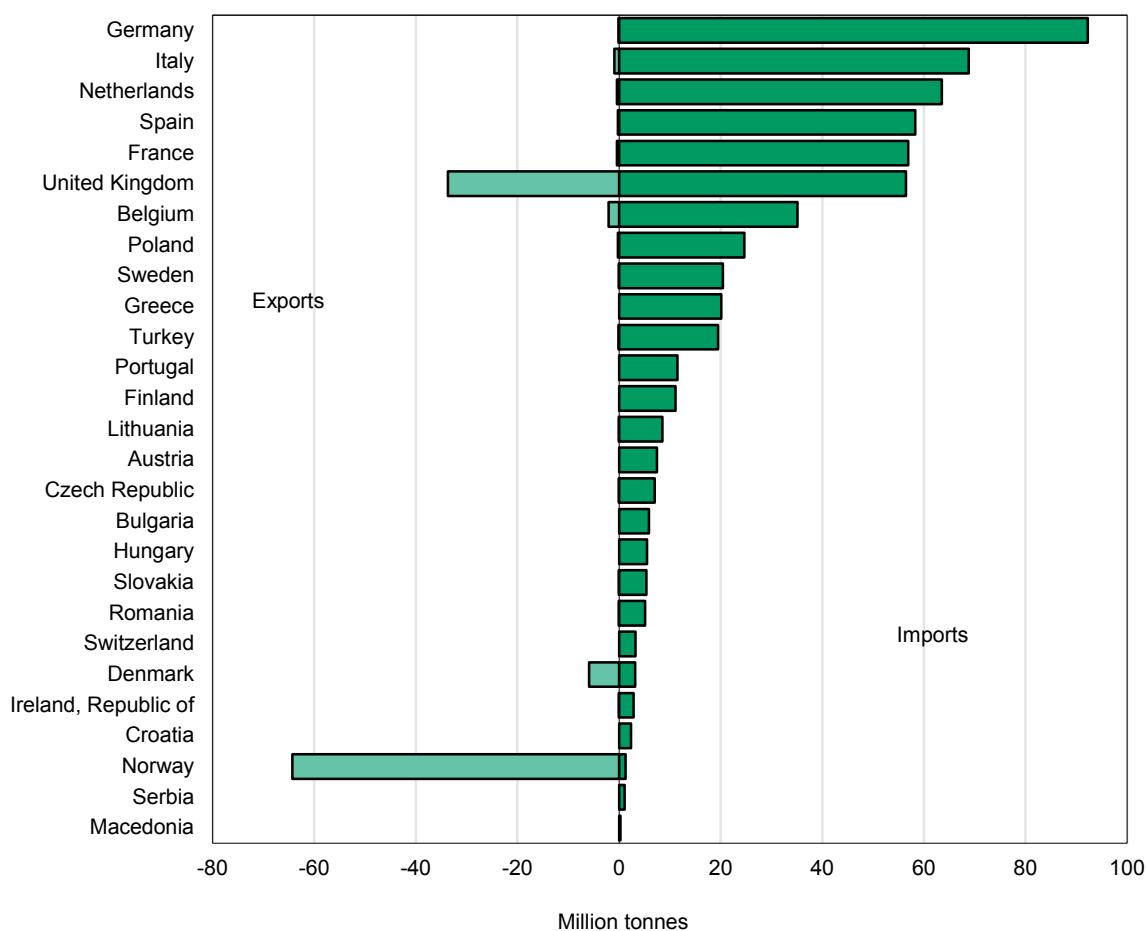
tonnes

Country	2008	2009	2010	2011	2012
Macedonia	1 057 671	992 672	852 361	685 090	258 896
Netherlands	58 484 561	35 086 584	60 408 191	55 108 848	63 505 928
Norway	828 709	1 225 514	1 508 241	1 238 531	1 305 413
Poland	20 949 949	19 959 321	22 009 801	22 870 416	24 629 744
Portugal	12 050 226	10 193 366	11 251 958	10 152 747	11 456 025
Romania	8 419 364	6 893 956	5 821 640	5 451 662	5 127 631
Serbia	2 585 294	2 280 658	1 869 881	1 497 415	1 091 762
Slovakia	5 778 688	5 787 725	5 555 541	5 988 119	5 345 149
Spain	59 444 410	52 331 324	52 714 224	51 960 524	58 285 251
Sweden	19 184 387	16 818 080	18 236 284	17 988 419	20 429 251
Switzerland	5 141 634	4 755 189	4 534 930	4 302 674	3 231 713
Turkey	21 833 471	14 219 427	16 873 392	18 049 163	19 479 238
United Kingdom	52 103 843	50 656 965	50 447 008	53 647 056	56 471 508

Note(s)

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

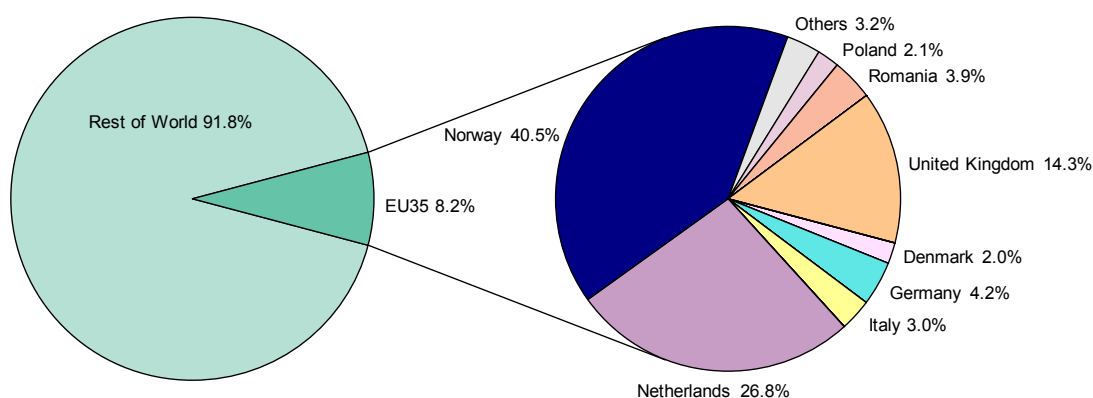
Crude petroleum - EU35 trade in 2012



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).
- USA was the world's largest producer in 2012, with 20 per cent of the total world output. The second largest was Russia (with 19 per cent), followed by Iran and Qatar (five per cent each) and Canada (with four per cent).

EU35 Production of natural gas 2012



Production of natural gas

million cubic metres

Country	2008	2009	2010	2011	2012
Austria	1 544	1 559	1 713	1 591	1 729
Bulgaria	218	15	74	443	390
Croatia	2 729	2 591	2 727	2 471	2 013
Czech Republic	168	180	201	187	204
Denmark	9 562	7 980	7 792	6 263	5 617
France	925	813	736	623	510
Germany	16 547	15 554	13 666	12 952	11 784
Greece	14	11	7	6	6
Hungary	2 703	2 748	2 600	2 315	2 205
Ireland, Republic of (a)	506	414	402	361	380
Italy	9 070	7 909	8 265	8 339	8 511
Netherlands	79 325	74 659	83 944	76 429	76 020
Norway	99 300	104 800	107 800	101 697	114 918
Poland	5 382	5 537	5 666	5 921	5 871
Romania	11 520	11 273	11 138	11 164	11 095
Serbia	282	279	423	616	672
Slovakia	111	114	106	106	106
Slovenia	3	3	7	2	1
Spain	46	19	58	58	65
Turkey	894	660	626	756	* 760
United Kingdom	74 937	63 031	59 684	47 790	40 603
EU35 Total	316 000	300 000	308 000	280 000	283 000

Note(s)

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

(a) Sales

EU35 Production of natural gas 2008 - 12



Exports of natural gas

tonnes

Country	2008	2009	2010	2011	2012
Austria	2 812 303	2 164 960	2 645 056	2 945 349	1 995 157
Belgium	59 248 950	7 659 165	11 792 847	23 022 897	* 27 000 000
Croatia	457 192	570 296	347 567	180 323	174 291
Czech Republic	—	834 462	1 318 872	1 115 748	1 034 568
Denmark	4 023 305	2 906 339	(a)* 1 044 000	(a)* 836 000	(a)* 729 000
Finland	1 420	4 557	9 052	4 729	34
France	22 087 224	3 469 724	2 908 272	8 017 462	—
Germany (a)	* 19 648 000	* 11 354 000	* 14 165 000	* 13 906 000	* 5 620 000
Greece	...	...	...	2 871	6 027
Hungary	—	323 537	—	—	417 151
Italy	1 749 247	1 620 776	1 427 161	159 619	143 244
Norway	71 394 708	74 357 298	75 626 277	74 356 856	84 557 156
Portugal	890 688	254 997	389 309	875	58 753
Slovakia	112 328	334 205	1 153 269	1 439 467	1 366 942
Slovenia	24 368	3	—	—	—
Spain	—	61 433	200 027	555 012	1 325 072
Sweden	—	961	21	6 159	475
Turkey	412 655	665 247	590 182	(a)* 653 000	(a)* 5 888 000
United Kingdom (b)	9 543 217	11 160 939	14 461 473	15 239 637	11 325 170

Note(s)

(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	2008	2009	2010	2011	2012
Austria	7 136 000	7 566 509	8 697 934	9 390 448	10 043 171
Belgium	11 419 294	14 431 349	14 144 704	13 250 074	12 979 827
Croatia	855 326	738 109	587 846	579 005	971 008
Czech Republic	6 264 909	7 080 247	7 471 522	7 175 884	5 652 749
Denmark	...	...	103 236	198 509	119
Estonia	717 831	477 844	491 806	478 288	452 299
Finland	6 028 908	—	3 252 037	3 543 126	(a)* 3 000 000
France	79 101 617	32 440 935	41 624 014	50 897 525	(a)* 37 000 000
Germany	78 201 702	78 990 573	82 784 241	87 762 701	92 961 372
Greece	4 186 746	3 086 243	3 520 510	4 233 660	3 927 266
Hungary	8 574 143	6 238 749	5 858 735	5 788 348	5 509 482
Ireland, Republic of	4 364 595	4 192 236	4 738 918	4 430 360	4 282 222
Italy	36 489 000	52 879 546	59 616 091	50 506 295	48 666 707
Latvia	1 138 776	1 047 240	1 160 668	1 099 045	1 034 139
Lithuania	2 246 642	1 761 529	2 048 906	2 385 268	2 265 929
Luxembourg	221 375	92 122	3 591	3 077	1 441
Macedonia	86 823	53 192	79 059	93 816	96 877
Netherlands (a)	* 17 228 000	* 9 512 000	* 11 044 000	* 12 153 000	* 10 107 568
Norway	442	231	4 393	1 005	444
Portugal	4 188 706	3 770 943	3 849 819	3 543 064	3 231 198
Romania	7 757 273	1 451 767	* 2 000 000	3 283 138	(a)* 2 000 000
Serbia	1 548 551	1 046 465	1 346 955	1 362 390	1 289 674
Slovakia	4 640 012	4 820 301	5 765 254	5 747 975	5 577 333
Slovenia	750 581	748 930	828 674	736 641	662 178
Spain	32 044 466	28 024 572	27 795 263	27 529 122	26 622 307
Sweden	647 510	860 497	1 066 174	899 467	816 561
Switzerland	2 596 153	2 450 414	2 759 930	2 521 494	2 644 533
United Kingdom (b)	33 996 147	38 563 499	49 981 718	49 695 891	46 000 857

Note(s)

(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 2012, with 44 per cent of the total world output. The second largest was USA (14 per cent), followed by Morocco (13 per cent), Peru and Russia (with five per cent each).

Production of phosphate rock

tonnes

Country	2008	2009	2010	2011	2012
Finland	780 000	658 347	817 289	869 694	858 005

Exports of phosphate rock

tonnes

Country	2008	2009	2010	2011	2012
Belgium	84 619	15 792	30 744	62 021	63 004
Cyprus	2 960	...	—	...	—
Czech Republic	1 091	817	—	...	—
Finland	3 248	3 796	52 006	117 304	43 597
France (a)	* 22 000	* 22 000	* 18 000	* 19 000	* 31 000
Germany	314	137	489	1 641	1 742
Italy	7 661	6 416	10 751	16 139	8 370
Lithuania	140	—	—	—	20 000
Macedonia	1 685	1 233	1 056	651	709
Netherlands	120 214	11 807	138 239	166 704	162 952
Slovenia	164 848	56 973	153 182	164 440	172 405
Spain	4 754	1 565	1 888	10 985	620
Sweden	4 897	1 228	125	2 253	1 826
Turkey	...	159	620	1 454	937

Note(s)

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

Imports of phosphate rock

tonnes

Country	2008	2009	2010	2011	2012
Austria	(a)* 158 000	(a)* 58 000	(a)* 160 000	61 030	(a)* 6 500
Belgium	1 458 207	579 326	1 114 210	1 076 842	1 038 397
Bulgaria	534 734	309 564	455 539	570 288	535 571
Croatia	328 599	117 441	51 010	67 007	56 303
Czech Republic	20 928	543	9 917	13 163	21
Finland	118 749	—	28 144	...	—
France	374 792	130 323	305 259	264 541	312 023
Germany	145 905	28 863	120 580	117 971	133 355
Greece	251 845	192 135	252 644	220 591	140 205
Hungary	41	37	45	1 028	312
Ireland, Republic of	3 425	85	5 328	264	327
Italy	248 005	89 245	231 808	243 718	196 478
Lithuania	1 209 385	1 162 070	1 354 093	1 254 579	1 216 427
Netherlands	1 108 711	192 355	779 354	779 537	679 557
Norway	682 369	403 098	9 638	6 499	—
Poland	1 448 780	458 923	1 299 106	1 434 124	1 237 885
Portugal	90 667	44 189	93 348	91 703	105 186
Romania	225 581	103 500	233 377	254 061	229 060
Serbia	102 441	3 974	20 394	60 024	85 674
Slovakia	251	258	1 688	1 662	1 299

Imports continued

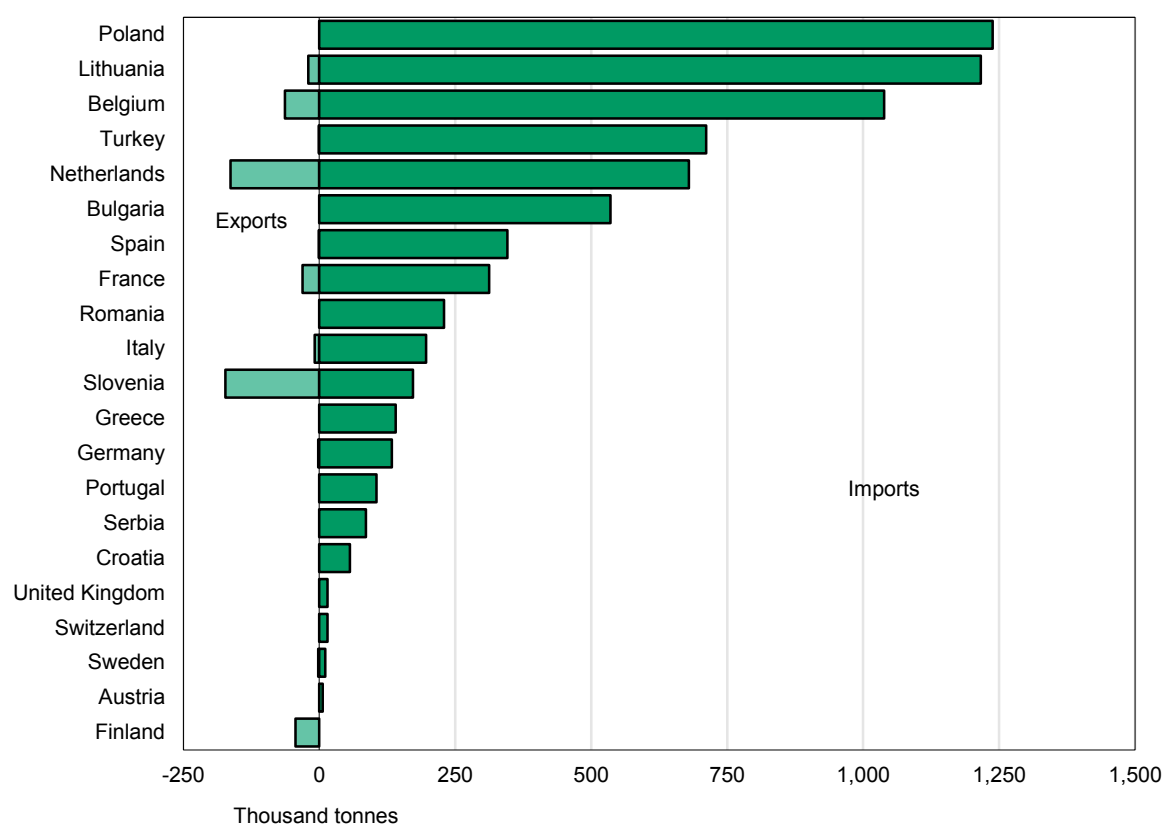
tonnes

Country	2008	2009	2010	2011	2012
Slovenia	164 872	56 969	153 160	164 442	172 406
Spain	1 611 494	438 755	1 017 820	377 348	345 571
Sweden	922	2 918	3 869	12 968	10 687
Switzerland	358	585	3 657	20 007	15 024
Turkey	741 190	707 595	686 966	814 382	711 627
United Kingdom	28 971	5 600	9 873	15 885	15 314

Note(s)

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

Phosphate rock - EU35 trade in 2012



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 2012, with 73 per cent of the total world output. The second largest was Russia (14 per cent), followed by Zimbabwe and Canada (with four per cent each) and USA (two per cent).
- Russia was the world's largest producer of palladium in 2012, with 45 per cent of the total world output. The second largest was South Africa (38 per cent), followed by USA and Canada (with six per cent each) and Zimbabwe (three per cent).
- South Africa was also the largest producer of other platinum group metals in 2012, with 90 per cent of the world output. Other producers were Russia (five per cent), Zimbabwe, (four per cent) and Canada (one per cent).

Mine production of platinum group metals

kilograms (metal content)

Country	2008	2009	2010	2011	2012
Finland					
Platinum	—	—	—	—	429
Palladium	—	—	—	—	379
Poland					
Platinum	30	30	30	* 30	* 30
Palladium	20	20	20	* 20	* 20
Serbia					
Platinum	—	12	—	—	6
Palladium	70	38	22	20	4
EU35 Total	120	100	60	70	870

Note(s)

- (1) Wherever possible, figures relate to quantities of platinum group metals thought to be recovered from ores originating in the country stated
- (2) In addition to the production listed, concentrates produced in Spain are believed to be processed in China to recover platinum group metals.

Exports of platinum group metals

kilograms

Country	2008	2009	2010	2011	2012
Austria					
Platinum and platinum metals	£52 298 000	£38 485 000	£83 434 000	£110 119 000	£105 895 000
Waste and scrap	£621 000	£295 000	£1 070 000	£757 000	£733 000
Belgium					
Platinum and platinum metals	8 400	10 700	7 500	8 900	5 300
Waste and scrap	649 800	315 200	497 000	218 400	31 200
Bulgaria					
Waste and scrap (a)	* 1 400	* 44 000	* 16 000	* 23 000	* 10 000
Croatia					
Waste and scrap	27 018	27 959	53 996	24 958	36 441
Czech Republic					
Platinum and platinum metals	3 400	5 200	6 800	2 900	2 800
Waste and scrap	700	—	—	15 300	—
Denmark					
Platinum and platinum metals	1	7 000	200	100	200
Estonia					
Platinum and platinum metals	...	7	...	—	654
Waste and scrap	...	800	7 700	9 100	8 800
Finland					
Platinum and platinum metals	30	34 126	6 238	6 684	3 927
Waste and scrap	218	267	723	75	454

Exports continued

kilograms

Country	2008	2009	2010	2011	2012
France					
Platinum	2 033	1 140	1 884	2 566	4 139
Platinum metals	2 120	1 396	914	1 255	107 354
Waste and scrap	282 400	609 699	179 798	270 355	352 702
Germany					
Platinum	27 700	36 204	24 597	24 994	23 627
Palladium	28 600	43 329	35 462	43 952	43 524
Other platinum metals	24 700	65 029	33 299	28 158	21 018
Waste and scrap	3 238 800	3 352 271	5 997 852	6 960 588	6 047 948
Greece					
Platinum and platinum metals	200	300	200	...	800
Waste and scrap	3 400	...	—	...	6 300
Hungary					
Waste and scrap	...	...	92 300	91 200	149 100
Ireland, Republic of					
Waste and scrap	16 854	8 544	5 440	1 763	3 496
Italy					
Platinum	13 350	10 043	10 408	9 982	10 071
Platinum metals	8 295	8 898	12 684	14 436	16 259
Waste and scrap	257	311	634	37 750	2 899
Lithuania					
Waste and scrap	62 710	101 900	193 600	126 800	...
Luxembourg					
Platinum and platinum metals	5 800	2 500	...	—	—
Waste and scrap	...	24 700	5 600	16 000	...
Netherlands					
Platinum	£18 207 000	£59 804 000	£14 634 000	£9 386 000	£10 282 000
Platinum metals	£10 385 000	£10 383 000	£7 953 000	£7 261 000	£5 329 000
Waste and scrap	352 175	* 163 160	1 877	220	5 714
Norway					
Platinum and platinum metals	15 393	12 341	9 714	11 951	13 707
Waste and scrap	5 119	35 829	157 937	36 399	63 560
Poland					
Platinum and platinum metals	7 275	47 400	1 100	2 400	400
Waste and scrap	7 399	1 600	300	3 400	63 900
Portugal					
Waste and scrap	...	—	...	15 100	3 200
Slovakia					
Platinum and platinum metals	45 800	1 700	5 800	84 100	29 400
Slovenia					
Platinum and platinum metals	110	400	—	...	13 300
Spain					
Platinum and platinum metals	3 104	1 672	2 347	1 255	21 889
Waste and scrap	88 069	225 411	291 877	163 420	68 805
Sweden					
Platinum and platinum metals	£851 000	£177 000	£429 000	£1 203 000	£801 000
Waste and scrap	575 300	40 400	69 000	43 600	39 100
Switzerland					
Platinum	69 404	61 433	72 006	63 853	64 331
Palladium	86 503	57 571	70 662	60 859	56 950
Other platinum metals	717	192	464	494	836
Waste and scrap	616 867	362 419	314 061	289 174	241 307
Turkey					
Platinum and platinum metals	18	3 142	5 124	2 765	589
Waste and scrap	330	9 967	4 491	5 332	13 244

Platinum Minerals

Exports continued

kilograms

Country	2008	2009	2010	2011	2012
United Kingdom					
Platinum	40 630	43 177	24 464	37 836	55 114
Palladium	47 142	53 091	42 864	50 917	55 864
Other platinum metals	22 548	20 044	23 021	17 319	18 945
Waste and scrap	4 278 682	4 273 222	527 862	287 198	1 066 729

Note(s)

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

Imports of platinum group metals

kilograms

Country	2008	2009	2010	2011	2012
Austria					
Platinum and platinum metals	700	1 600	1 400	4 100	500
Waste and scrap	100	—	100	21 400	1 100
Belgium					
Platinum and platinum metals	300	1 200	1 000	400	400
Bulgaria					
Platinum and platinum metals	613	16	17	5	10
Cyprus					
Platinum and platinum metals (a)	* 400	...	* 900	* 400	* 11
Czech Republic					
Platinum	42 358	81 500	25 000	2 100	13 100
Platinum metals	47 932	600	17 700	100	100
Waste and scrap	4 414	772	7 835	54 300	169 600
Denmark					
Platinum and platinum metals	6 448	4 699	2 300	796	500
France					
Platinum	8 471	3 633	4 516	4 010	4 606
Platinum metals	4 404	5 348	3 006	...	23 926
Waste and scrap	241 200	359 138	143 885	296 178	122 641
Germany					
Platinum	47 100	42 452	40 983	38 019	32 874
Palladium	55 100	47 092	53 479	50 926	47 449
Other platinum metals	6 400	12 120	19 655	21 319	18 444
Waste and scrap	10 983 600	6 224 314	8 069 744	7 290 427	8 020 283
Greece					
Platinum and platinum metals	300	100	500	1 400	900
Hungary					
Platinum and platinum metals	453	26	1 300	84	—
Iceland					
Platinum and platinum metals	162	158	117	216	150
Ireland, Republic of					
Platinum and platinum metals	2 185	121 381	9 470	7 826	13 879
Italy					
Platinum	16 570	13 627	12 545	10 630	7 417
Palladium	20 593	13 047	10 019	9 171	7 855
Other platinum metals	2 426	1 909	1 694	1 084	1 244
Waste and scrap	7 646	8 178	16 918	1 468	3 103
Latvia					
Platinum and platinum metals	...	...	...	100	200
Waste and scrap	2 842	(a)* 3 900	(a)* 400	...	...
Lithuania					
Waste and scrap	40 800	22 700	76 400	64 600	4 800
Luxembourg					
Platinum and platinum metals	1 410	1 702	1 633	0	289
Macedonia					
Platinum and platinum metals	—	—	2 420	7 649	9 910

Imports continued

kilograms

Country	2008	2009	2010	2011	2012
Netherlands					
Platinum	£89 137 000	£78 613 000	£25 740 000	£73 911 000	£79 002 282
Platinum metals	£8 219 000	£11 659 000	£13 014 000	£54 486 000	£31 439 659
Waste and scrap	40	111	260 515	411 332	5 883
Norway					
Platinum and platinum metals	1 072	1 005	1 425	1 430	758
Waste and scrap	1 093	930	1 362	1 160	1 403
Poland					
Platinum and platinum metals	16 900	31 300	5 100	2 700	1 800
Portugal					
Platinum and platinum metals	308	146	796	100	—
Slovakia					
Platinum	1 573 351	1 533 869	1 625 761	2 662 700	2 339 500
Palladium	58	1 191	2 702	4 400	4 800
Spain					
Platinum and platinum metals (a)	* 3 900	* 3 000	* 3 500	* 3 000	* 2 500
Waste and scrap	8 947	29 448	29 183	17 845	13 104
Sweden					
Platinum and platinum metals	£8 722 000	£5 934 000	£7 551 000	£8 430 000	£12 301 000
Waste and scrap	13 800	80 200	1 500	19 800	12 700
Switzerland					
Platinum	67 022	91 048	49 089	57 415	39 955
Palladium	60 666	50 258	41 454	43 310	27 123
Other platinum metals	1 255	1 319	813	873	1 065
Waste and scrap	494 962	688 973	912 680	459 360	413 819
Turkey					
Platinum and platinum metals	463	235	200	213	240
United Kingdom					
Platinum	29 943	30 339	58 659	46 092	54 073
Palladium	32 806	36 652	73 184	42 167	59 803
Other platinum metals	5 409	6 713	9 487	7 768	4 374
Waste and scrap	1 416 905	1 100 117	819 769	1 556 736	2 163 943

Note(s)

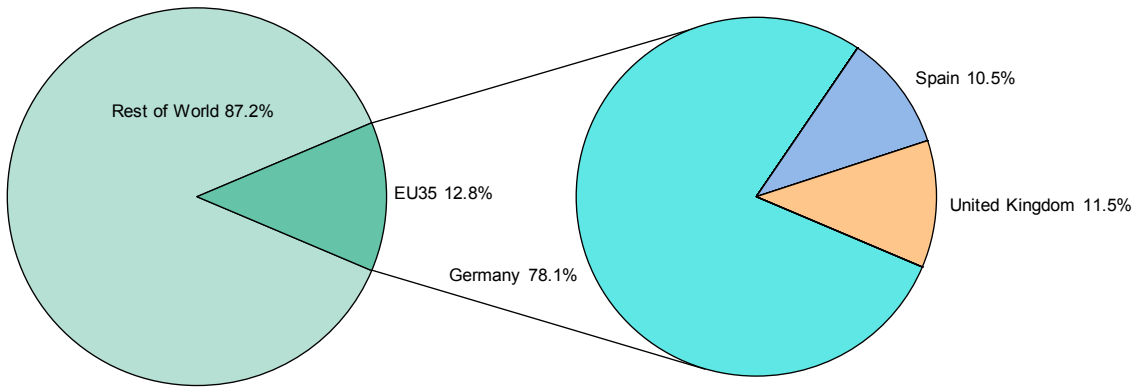
- (1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys
- (2) Kilograms have been used as the unit in this table except where the only obtainable figure is a value. In these cases the national currency figure has been converted to £ sterling.
- (3)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

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

Potash

- Potash is the name for a range of potassium-bearing minerals and processed chemical products. Potassium is essential in fertilisers and is widely used in the chemicals industry and in explosives.
- Canada was the world's largest producer in 2012, with 28 per cent of the total world output. The second largest was Russia (17 per cent), followed by Belarus (15 per cent), Germany (ten per cent) and China (eight per cent).

EU35 Production of potash 2012

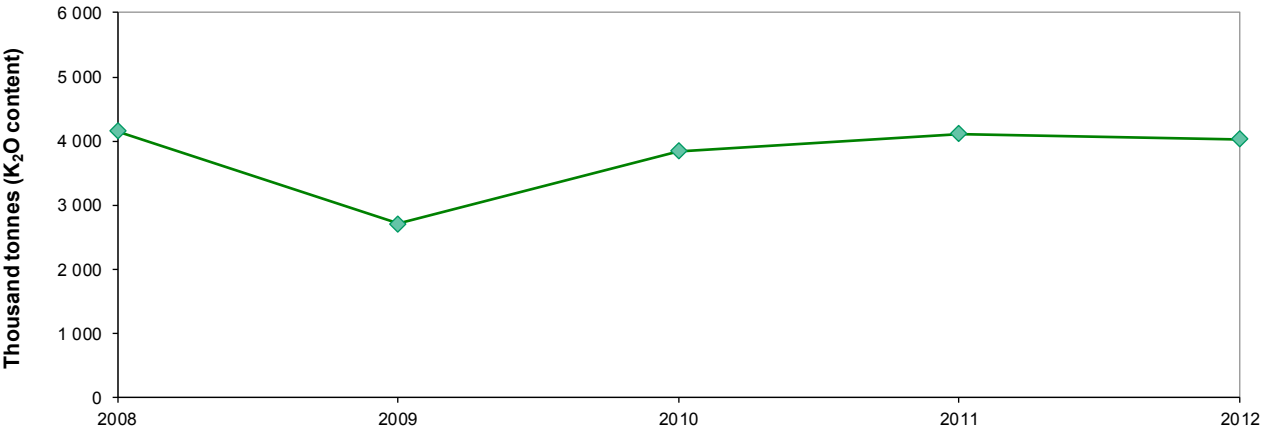


Production of potash

tonnes (K₂O content)

Country	2008	2009	2010	2011	2012
Germany					
Potassic salts	3 280 467	1 825 139	3 023 941	3 214 696	3 149 386
Spain					
Chloride	472 952	481 455	418 778	436 026	421 652
United Kingdom					
Chloride	403 800	* 403 800	* 403 800	* 462 000	* 462 000
EU35 Total	4 157 000	2 710 000	3 847 000	4 113 000	4 033 000

EU35 Production of potash 2008 - 12



Exports of potash

Country	2008	2009	2010	2011	2012
Austria					
Potassic fertilisers	14 613	13 843	20 259	19 304	21 653
Belgium					
Chloride	10 631	58 784	64 018	100 097	217 498
Czech Republic					
Potassic fertilisers	3 322	6 843	4 235	4 780	3 839
Denmark					
Chloride	45	59	69	2 123	2 579
Other potassic fertilisers	374	504	683	8 898	7 664
Finland					
Sulphate	17 181	45 818	53 850	* 61 000	* 51 000
Chloride	50 822	26	178	195	1
France					
Sulphate	34 777	18 248	17 085	25 238	17 335
Chloride	11 416	9 858	36 215	15 947	65 461
Other potassic fertilisers	327	414	1 788	2 772	3 714
Germany					
Potassic fertilisers (a)(b)	3 280 467	1 825 139	3 023 941	3 214 696	3 149 386
Greece					
Potassic fertilisers	1 648	1 369	1 294	431	336
Hungary					
Potassic fertilisers	7 891	9 916	5 697	5 805	7 664
Italy					
Potassic fertilisers	6 345	12 725	13 629	8 702	8 551
Latvia					
Chloride	970	0	39	28	1 427
Potassic fertilisers	123	379	357	535	1 344
Lithuania					
Potassic fertilisers	2 846	18 714	6 517	4 256	7 989
Luxembourg					
Chloride	778	98	330	190	122
Netherlands					
Sulphate	1 424	4 431	7 854	45 711	27 002
Chloride	147 436	133 012	174 453	22 746	395 684
Other potassic fertilisers	1 341	2 680	15 619	45 766	31 642
Poland					
Potassic fertilisers	9 222	13 279	10 687	10 078	3 999
Portugal					
Potassic fertilisers	240	402	612	895	3 901
Serbia					
Potassic fertilisers	245	163	690	3 672	3 546
Spain					
Sulphate	1 251	2 540	6 474	3 713	4 873
Chloride	360 538	319 549	609 607	688 599	733 789
Other potassic fertilisers	1 895	1 352	2 365	2 385	3 020
Sweden					
Sulphate	53 883	59 252	93 796	84 381	69 205
Turkey					
Potassic fertilisers	3 544	6 438	6 533	6 504	3 654
United Kingdom					
Sulphate	93	443	71	108	118
Chloride (c)	* 244 300	* 205 600	* 339 000	* 429 000	* 399 000
Other potassic fertilisers	562	228	420	5 283	15 732

Note(s)

(a) K₂O content

(b) Including sulphate, chloride and other potassic fertilisers

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

Imports of potash

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Sulphate	10 432	4 241	15 074	9 595	15 636
Chloride	119 347	28 000	105 299	102 028	132 302
Other potassic fertilisers	25 862	9 139	18 201	9 418	12 312
Belgium					
Sulphate	175 205	73 074	129 152	120 335	15 461
Chloride	912 154	428 365	1 173 213	1 259 385	740 726
Other potassic fertilisers	10 125	7 668	13 668	13 771	3 794
Bulgaria					
Potassic fertilisers	4 633	1 970	7 985	3 210	9 948
Croatia					
Chloride	157 994	10 538	132 471	102 879	115 375
Other potassic fertilisers	2 958	1 091	1 749	3 717	1 314
Czech Republic					
Chloride	28 052	36 125	82 710	87 248	75 651
Other potassic fertilisers	5 025	2 430	4 773	3 410	3 377
Denmark					
Sulphate	1 878	1 019	1 910	9 335	11 225
Chloride	47 885	4 917	36 608	42 472	30 823
Other potassic fertilisers	24 438	11 052	14 967	8 473	4 816
Estonia					
Chloride	8 665	1	1 517	1 898	2 438
Other potassic fertilisers	9	5	57	1 491	1 960
Finland					
Chloride (a)	164 400	84 600	194 800	211 100	207 500
Other potassic fertilisers	184	74	117	4 602	1 100
France					
Sulphate	53 124	12 477	51 068	40 885	75 743
Chloride	837 119	242 713	626 635	597 658	901 544
Other potassic fertilisers	18 484	7 287	13 998	6 814	13 696
Germany					
Sulphate	11 801	13 194	20 786	22 490	21 559
Chloride	124 643	75 154	131 645	131 244	146 673
Other potassic fertilisers	2 503	633	8 065	11 726	7 729
Greece					
Sulphate	36 642	14 325	39 155	26 686	26 621
Chloride	28 144	20 773	35 176	27 276	19 735
Other potassic fertilisers	8 660	107	3 240	8 166	2 947
Hungary					
Chloride	181 373	38 441	90 063	98 351	106 292
Other potassic fertilisers	4 552	4 372	5 760	6 161	5 449
Ireland, Republic of					
Chloride	97 056	29 932	99 181	95 816	85 536
Other potassic fertilisers	4 347	3 390	7 570	2 011	5 249
Italy					
Sulphate	78 513	31 910	88 593	58 418	52 568
Chloride	346 465	144 086	367 465	287 984	285 476
Other potassic fertilisers	9 882	3 413	8 415	1 368	511
Latvia					
Chloride	10 845	—	6 414	3 468	8 694
Lithuania					
Sulphate	10 971	2 617	2 581	7 069	6 267
Chloride	107 749	6 631	32 552	35 602	52 573
Other potassic fertilisers	487	87	4	112	1 837
Luxembourg					
Potassic fertilisers	2 048	801	1 681	1 167	1 252
Netherlands					
Sulphate	17 393	28 984	21 982	56 536	66 497
Chloride	307 612	204 377	430 138	756 966	905 233
Other potassic fertilisers	3 899	3 466	1 542	26 231	24 569
Norway					
Sulphate	190 757	123 549	(b)* 99 000	(b)* 65 000	(b)* 27 782
Chloride	349 459	199 385	(b)* 377 000	(b)* 354 000	(b)* 395 133
Other potassic fertilisers	674	509	612	287	320

Imports continued

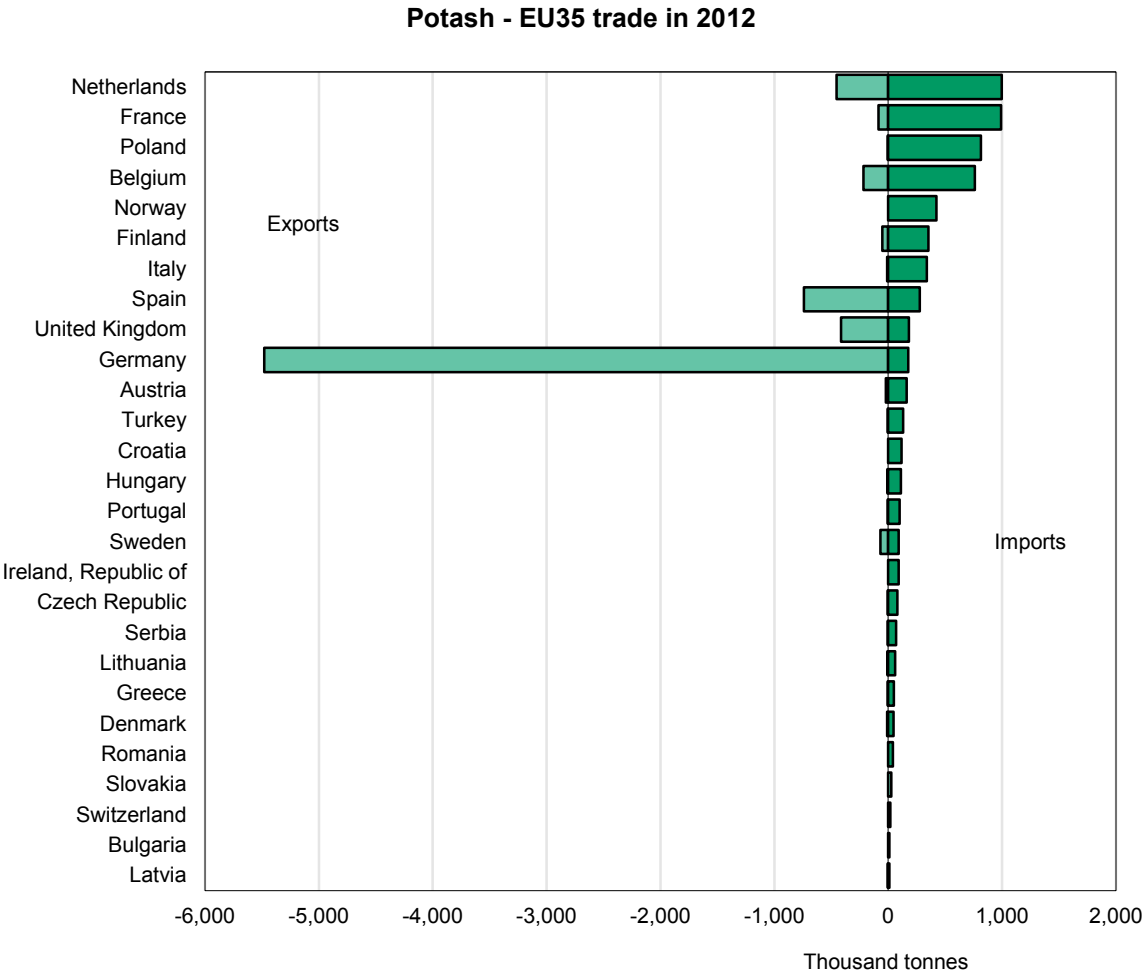
tonnes

Country	2008	2009	2010	2011	2012
Poland					
Sulphate	19 161	10 919	19 155	23 281	23 883
Chloride	815 282	194 900	757 987	769 256	779 023
Other potassic fertilisers	7 143	3 470	4 442	10 317	11 544
Portugal					
Sulphate	1 869	1 574	3 840	4 405	10 798
Chloride	38 200	25 525	50 687	65 352	82 364
Other potassic fertilisers	1 708	5 389	1 899	2 596	5 395
Romania					
Sulphate	5 133	19 592	13 726	6 936	17 559
Chloride	68 877	5 119	56 922	46 842	21 354
Other potassic fertilisers	338	374	425	683	1 279
Serbia					
Chloride	109 734	10 710	71 906	53 113	69 712
Slovakia					
Chloride	29 496	4 597	22 561	24 631	23 613
Other potassic fertilisers	2 366	689	2 913	2 260	3 204
Slovenia					
Potassic fertilisers	2 166	766	1 919	2 076	1 447
Spain					
Sulphate	40 911	21 022	40 507	39 133	43 865
Chloride	194 656	71 444	211 595	257 920	232 397
Other potassic fertilisers	3 548	3 721	1 607	1 283	968
Sweden					
Sulphate	2 872	965	1 789	2 551	1 340
Chloride	15 689	4 769	55 671	79 863	81 282
Other potassic fertilisers	4 735	4 211	5 858	9 276	8 187
Switzerland					
Sulphate	4 685	3 967	4 914	5 899	6 638
Chloride	15 158	7 595	16 865	14 730	11 866
Other potassic fertilisers	2 861	1 676	2 049	1 159	1 136
Turkey					
Sulphate	33 427	11 576	34 986	28 989	36 459
Chloride	82 412	50 634	82 923	93 471	94 930
Other potassic fertilisers	398	303	1 075	109	107
United Kingdom					
Sulphate	15 157	15 766	15 766	13 232	10 795
Chloride	165 331	80 842	270 096	153 141	161 388
Other potassic fertilisers	11 919	10 422	10 565	2 373	7 899

Note(s)

(a) K₂O content

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



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 (91 per cent of the total world output in 2012). The second largest producer in 2012 was USA (four per cent), followed by Australia and Russia (with two per cent each). Minor amounts are also produced in Malaysia and Brazil.

Exports of rare earths

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metals	373	244	258	452	500
Cerium compounds	2 702	2 035	1 936	1 167	888
Other rare earth compounds	8 508	8 437	8 658	4 902	5 696
Belgium					
Metals	299	273	476	110	134
Rare earth compounds	408	335	332	265	141
Czech Republic					
Rare earth compounds	8	3	6	2	—
Estonia					
Metals	1	1	1	...	42
Rare earth compounds	2 916	2 679	1 686	1 124	3 210
Finland					
Rare earth compounds	103	0	44	67	0
France					
Metals	11	3	8	11	12
Rare earth compounds	1 854	1 244	3 411	2 789	2 097
Germany					
Metals	3	19	25	29	10
Rare earth compounds	188	652	601	660	699
Ireland, Republic of					
Rare earth compounds	9	7	1	1	4
Italy					
Metals	112	78	101	145	111
Rare earth compounds	153	167	236	322	353
Lithuania					
Cerium compounds	3	8	12	10	7
Netherlands					
Metals	202	* 135	86	70	163
Rare earth compounds	131	* 150	177	327	341
Ferro-cerium and other pyrophoric alloys	19	44	49	18	32
Norway					
Metals	1	105	—	19	5
Other rare earth compounds	21	21	30	23	13
Poland					
Cerium compounds	8	4	7	86	1
Other rare earth compounds	22	—	4	66	3
Spain					
Metals	50	—	97	51	1
Cerium compounds	8	13	51	62	8
Other rare earth compounds	17	5	34	32	9
Sweden					
Cerium compounds	...	1	9	...	5
Switzerland					
Cerium compounds	1	1	2	9	5
Other rare earth compounds	1	26	1	1	5
Turkey					
Cerium compounds	27	8	5	10	5

Rare Earths

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Metals	237	54	46	272	54
Cerium compounds	73	105	182	149	273
Other rare earth compounds	622	459	614	347	214
Ferro-cerium and other pyrophoric alloys	7	6	37	48	79

Note(s)

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

Imports of rare earths

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metals	561	269	550	325	442
Cerium compounds	3 487	1 985	1 766	1 310	696
Other rare earth compounds	3 589	2 471	3 375	1 646	802
Belgium					
Metals	259	323	411	205	136
Cerium compounds	258	419	323	289	146
Other rare earth compounds	142	292	172	58	41
Ferro-cerium and other pyrophoric alloys	3	62	2	0	7
Cyprus					
Cerium compounds	0	0	24	0	16
Ferro-cerium and other pyrophoric alloys	0	...	18	...	—
Czech Republic					
Metals	0	0	13	35	2
Rare earth compounds	155	124	131	117	344
Ferro-cerium and other pyrophoric alloys	5	5	6	2	1
Denmark					
Cerium compounds	11	734	15	16	19
Other rare earth compounds	10	36	19	6	3
Estonia					
Cerium compounds	0	0	24	501	545
Other rare earth compounds	4 469	4 125	2 105	3 616	4 499
Finland					
Cerium compounds	101	57	72	52	18
Other rare earth compounds	7	9	8	14	5
Ferro-cerium and other pyrophoric alloys	0	1	2	2	10
France					
Metals	447	402	372	506	280
Cerium compounds	9 116	6 112	5 687	1 867	3 940
Other rare earth compounds	768	874	1 408	1 359	1 301
Ferro-cerium and other pyrophoric alloys	3	26	83	388	940
Germany					
Metals	430	106	459	263	290
Cerium compounds	673	448	1 006	844	553
Other rare earth compounds	10 192	7 755	9 999	6 904	4 155
Ferro-cerium and other pyrophoric alloys	6	2	6	14	11
Greece					
Metals	20	68	...	...	—
Rare earth compounds	1	—	3	4	11
Ferro-cerium and other pyrophoric alloys	0	0	65	62	169
Hungary					
Cerium compounds	55	36	38	33	31
Other rare earth compounds	62	26	31	23	31
Iceland					
Metals	85	87	350	77	...
Ireland, Republic of					
Rare earth compounds	21	67	8	85	3

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Italy					
Metals	144	87	124	108	30
Cerium compounds	710	414	597	616	337
Other rare earth compounds	431	258	303	307	257
Ferro-cerium and other pyrophoric alloys	2	5	10	3	3
Lithuania					
Rare earth compounds	8	3	14	11	10
Luxembourg					
Rare earth compounds	1	2	2	5	2
Ferro-cerium and other pyrophoric alloys	—	—	11	0	—
Netherlands					
Metals	261	* 200	48	18	99
Cerium compounds	278	71	88	223	396
Other rare earth compounds	2 766	* 1 100	568	173	742
Ferro-cerium and other pyrophoric alloys	4	6	2	1	23
Norway					
Metals	341	24	148	552	438
Cerium compounds	7	9	1	13	3
Other rare earth compounds	1	0	8	9	9
Poland					
Metals	—	2	5	0	2
Cerium compounds	148	43	134	101	68
Other rare earth compounds	58	16	48	32	13
Portugal					
Metals	0	...	1	87	—
Cerium compounds	15	11	7	8	15
Other rare earth compounds	7	2	5	18	3
Romania					
Rare earth compounds	6	5	5	1	2
Slovakia					
Rare earth compounds	5	8	8	10	7
Slovenia					
Metals	88	55	98	26	55
Rare earth compounds	3	2	3	3	9
Spain					
Metals	274	108	421	9	19
Cerium compounds	444	443	543	636	455
Other rare earth compounds	270	140	216	102	155
Ferro-cerium and other pyrophoric alloys	15	19	41	33	22
Sweden					
Metals	46	28	37	48	72
Cerium compounds	59	47	47	55	31
Other rare earth compounds	8	8	7	9	16
Switzerland					
Metals	...	1	4	5	21
Cerium compounds	16	15	31	18	15
Other rare earth compounds	18	15	16	12	17
Ferro-cerium and other pyrophoric alloys	6	44	...	5	3
Turkey					
Metals	9	9	14	13	10
Cerium compounds	310	200	233	128	120
Other rare earth compounds	5	4	13	8	4
Ferro-cerium and other pyrophoric alloys	12	10	...	...	13
United Kingdom					
Metals	133	99	119	79	65
Cerium compounds	2 067	612	1 119	1 713	485
Other rare earth compounds	251	103	322	629	518
Ferro-cerium and other pyrophoric alloys	57	148	150	79	14

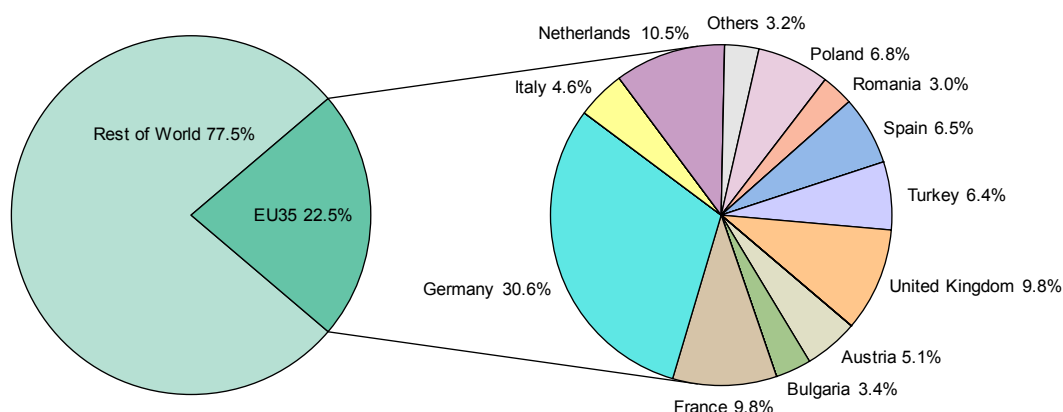
Note(s)

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

Salt

- Salt (sodium chloride) is a fundamental chemical of life. However, human consumption accounts for a small fraction of salt usage. Industrial use is far higher, particularly in the chemical industry as a source of soda and chlorine. Salt is also used to 'grit' roads to prevent the formation of ice between 0°C and -6°C.
- Most countries in the world have some salt production from rock salt, brine or seawater. China was the world's largest producer in 2012, with 22 per cent of the total world output. The second largest was USA (15 per cent), followed by India (nine per cent), Germany (seven per cent), Canada, Australia and Mexico (with four per cent each).

EU35 Production of salt 2012



Production of salt

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Rock salt	503	50	95	169	222
Salt in brine	866 674	1 035 044	1 071 842	1 150 474	3 193 216
Bulgaria	2 100 000	1 300 000	1 900 000	2 200 000	2 100 000
Croatia	54 937	57 186	66 835	53 963	45 992
Denmark	496 593	511 063	601 046	* 600 000	* 600 000
France	* 6 100 000	* 6 100 000	* 6 100 000	* 6 100 000	* 6 100 000
Germany					
Rock salt	5 545 438	7 709 844	9 992 156	8 765 168	5 938 855
Brine salt	989 208	1 862 630	2 118 484	2 217 205	2 182 440
Salt in brine	7 306 745	* 7 300 000	* 4 500 000	* 6 500 000	* 10 900 000
Greece	* 220 000	* 189 000	* 190 000	* 190 000	* 190 000
Italy					
Rock salt and brine salt	5 412 449	3 678 234	4 006 882	2 912 128	2 862 440
Montenegro					
Sea salt	25 200	17 000	11 200	10 000	16 000
Netherlands	6 200 000	5 967 000	5 982 000	6 866 000	6 513 000
Poland					
Rock salt	618 111	988 545	1 221 700	1 254 000	793 000
Brine salt	2 783 198	2 533 413	2 464 363	2 633 300	2 732 200
Other salt	706 618	763 385	763 515	768 000	724 000
Portugal					
Rock salt	606 545	594 578	618 961	631 295	520 284
Sea salt	69 249	72 325	44 574	47 267	88 693
Romania	2 526 774	2 072 744	2 388 357	2 248 940	1 888 516
Serbia	30 115	28 782	30 816	23 334	16 506
Slovakia	109 510	41 000	—	—	—
Slovenia	535	2 924	59	4 291	5 684
Spain					
Rock salt	2 909 907	2 763 081	3 115 940	3 096 383	2 785 959
Sea salt	1 290 672	1 338 789	1 242 718	1 314 529	1 155 475
Other salt	102 149	99 853	92 644	92 850	100 643

Production continued

tonnes

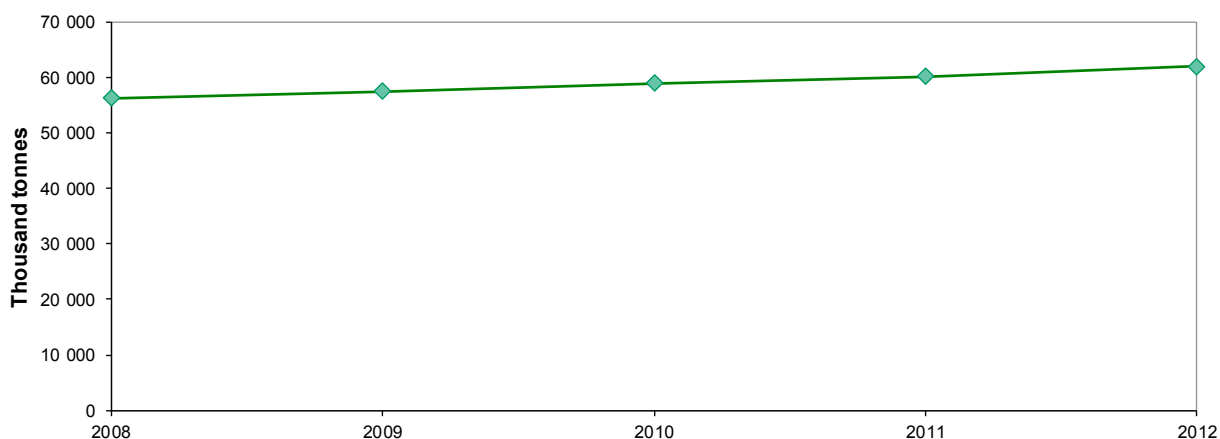
Country	2008	2009	2010	2011	2012
Switzerland	368 000	554 000	643 000	478 324	* 528 000
Turkey	3 271 009	3 765 564	3 134 749	* 4 000 000	* 4 000 000
United Kingdom	5 565 000	6 166 000	6 666 000	6 060 000	* 6 100 000
EU35 Total	56 300 000	57 500 000	59 000 000	60 200 000	62 100 000

Note(s)

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

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

EU35 Production of salt 2008 - 12



Exports of salt

tonnes

Country	2008	2009	2010	2011	2012
Austria	388 681	491 981	500 126	392 506	404 069
Belgium	61 012	125 255	288 679	354 644	151 767
Bulgaria	8 239	2 689	1 078	6 074	170
Croatia	4 530	9 995	20 721	24 561	21 548
Cyprus	956	2 910	7 929	6 260	5 765
Czech Republic	14 116	31 068	51 289	41 658	25 883
Denmark	265 036	333 383	319 317	296 459	391 879
Estonia	121	277	2 055	3 685	2 968
Finland	336	336	11 380	1 370	401
France	231 953	277 617	297 909	190 124	147 441
Germany	2 782 861	2 744 985	3 097 654	2 735 634	2 207 276
Greece	48 908	47 406	59 655	65 014	41 292
Hungary	1 388	3 434	1 356	39 405	14 663
Iceland	3 718	2 115	1 093	1 402	694
Ireland, Republic of	8 783	735	10 183	1 540	2 608
Italy	322 221	558 441	919 673	1 017 938	473 826
Latvia	13 741	15 919	23 172	35 545	21 741
Lithuania	6 063	5 437	19 031	13 514	7 653
Luxembourg	219	220	1 072	589	311
Macedonia	3 255	3 616	2 666	5 456	4 898
Montenegro	3 505	3 776	14 316	1 560	1 845
Netherlands	3 878 601	* 3 412 200	3 456 740	2 631 255	2 456 168
Norway	4 833	14 998	12 609	5 775	17 053
Poland	361 691	503 899	572 595	515 723	393 235
Portugal	13 412	15 662	31 022	31 304	37 302
Romania	486 040	372 501	790 530	712 657	635 801

Salt

Exports continued

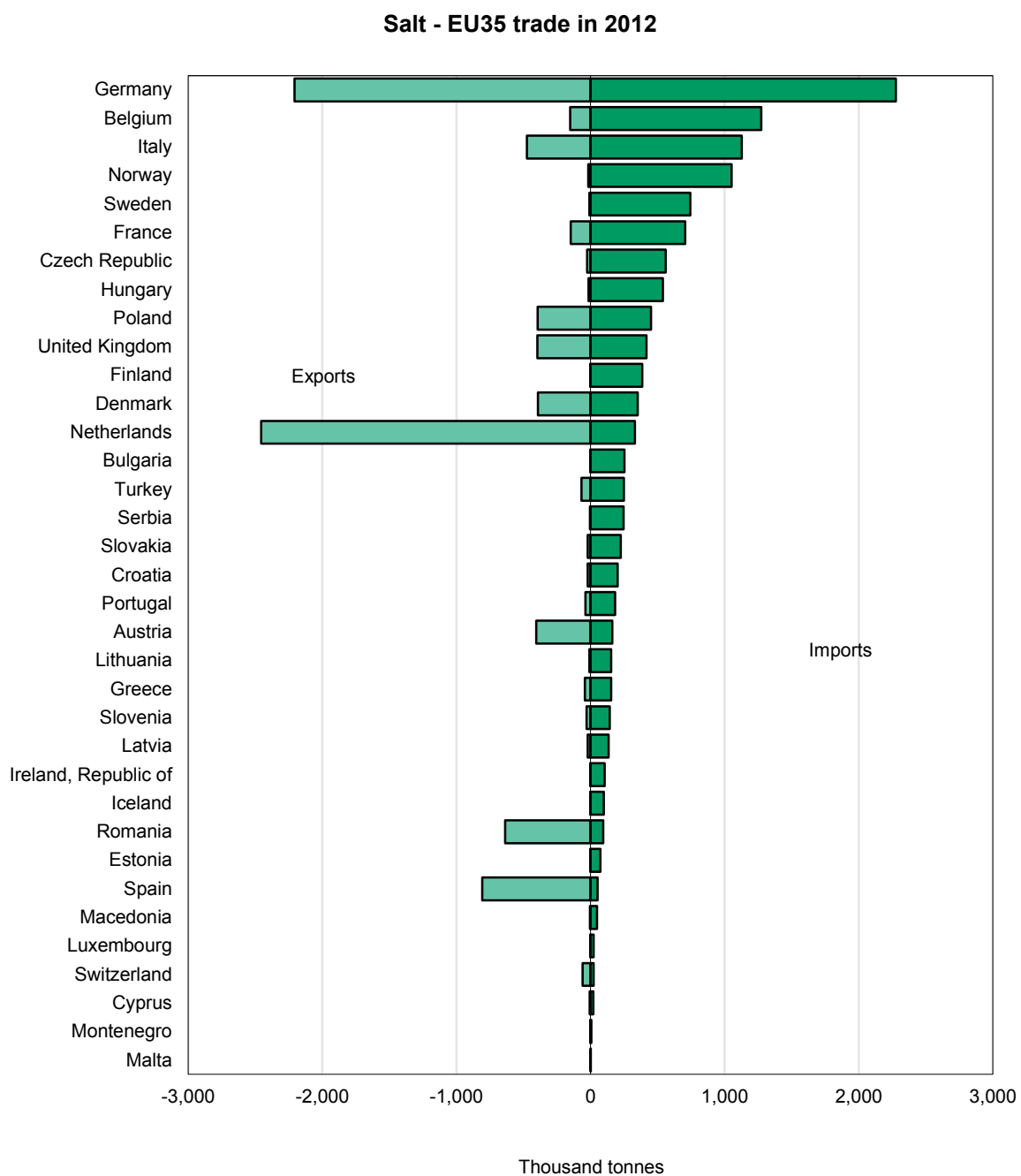
tonnes

Country	2008	2009	2010	2011	2012
Serbia	4 151	3 895	16 290	13 362	5 073
Slovakia	62 133	4 606	45 056	27 935	20 917
Slovenia	20 590	15 671	21 711	33 998	30 498
Spain	646 288	862 994	1 318 019	1 311 651	807 581
Sweden	10 444	10 025	12 742	13 297	8 973
Switzerland	37 772	68 947	67 537	71 525	58 820
Turkey	27 393	26 223	262 050	417 596	66 690
United Kingdom	873 708	449 303	450 246	489 633	396 155

Imports of salt

tonnes

Country	2008	2009	2010	2011	2012
Austria	105 335	230 979	293 799	291 187	162 790
Belgium	1 174 539	1 319 896	1 751 650	2 001 517	1 272 556
Bulgaria	103 007	102 272	215 355	214 732	252 392
Croatia	176 408	197 644	287 609	190 963	201 542
Cyprus	13 445	16 822	23 836	20 998	20 470
Czech Republic	610 149	711 374	958 474	858 980	560 186
Denmark	213 931	421 109	762 420	907 135	351 217
Estonia	72 149	73 931	73 254	85 105	73 248
Finland	397 033	417 495	384 089	452 873	385 359
France	578 882	918 448	1 653 101	1 622 835	705 665
Germany	2 319 273	1 867 023	2 654 736	3 477 233	2 277 714
Greece	134 557	149 094	144 367	173 050	154 435
Hungary	510 287	535 928	704 143	800 950	540 297
Iceland	113 142	98 207	65 342	94 177	100 020
Ireland, Republic of	105 636	114 659	172 053	308 884	105 270
Italy	572 965	902 241	1 119 583	1 045 659	1 128 585
Latvia	144 424	151 529	163 486	198 975	135 514
Lithuania	166 505	159 534	209 506	246 724	154 780
Luxembourg	45 882	51 132	77 304	91 033	24 059
Macedonia	37 575	39 232	42 011	39 986	49 248
Malta	3 794	1 364	1 682	1 366	2 567
Montenegro	4 814	10 402	6 470	9 600	6 795
Netherlands	167 508	* 253 000	1 404 032	2 397 781	331 643
Norway	1 075 905	959 630	1 042 489	1 106 066	1 052 197
Poland	356 929	483 243	886 294	1 052 650	451 619
Portugal	94 501	108 161	172 107	144 688	182 585
Romania	92 815	82 569	81 441	114 500	94 288
Serbia	152 207	144 711	204 395	274 636	246 280
Slovakia	189 268	168 211	266 329	244 787	226 571
Slovenia	190 017	239 191	317 999	235 663	142 926
Spain	97 348	81 729	85 807	111 597	52 046
Sweden	875 294	910 606	905 190	933 936	745 276
Switzerland	8 988	70 386	37 731	58 307	23 179
Turkey	257 146	99 400	154 536	254 045	248 663
United Kingdom	237 288	410 434	1 288 253	1 814 865	418 028



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 2012 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	2008	2009	2010	2011	2012
France					
Andalusite	* 65 000	* 65 000	* 65 000	* 65 000	* 68 000

Note(s)

- (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

Exports of sillimanite minerals

tonnes

Country	2008	2009	2010	2011	2012
Belgium	62 423	39 809	53 940	51 011	35 685
France	66 242	38 494	49 011	55 316	43 751
Germany	18 231	7 965	13 379	18 818	17 287
Hungary					
Mullite	(a)* 7 200	(a)* 4 300	7 505	8 180	6 335
Netherlands	10 848	5 602	6 907	23 239	13 447
Turkey	1 608	1 647	2 623	3 357	4 444
United Kingdom	2 076	1 414	1 378	1 761	1 141

Note(s)

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

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

Imports of sillimanite minerals

tonnes

Country	2008	2009	2010	2011	2012
Austria	2 639	1 353	2 089	2 224	3 093
Belgium					
Sillimanite minerals	6 683	40 549	53 115	50 427	32 683
Mullite	2 149	432	1 955	1 690	4 139
Czech Republic					
Sillimanite minerals	5 829	4 227	3 682	4 089	4 132
Denmark					
Sillimanite minerals	915	1 011	1 124	792	386
Mullite	1 567	1 587	3 199	2 590	1 714
France					
Sillimanite minerals	3 046	3 209	3 110	3 502	1 930
Mullite	3 209	1 327	2 663	3 831	2 919
Germany					
Sillimanite minerals	56 555	27 232	47 738	48 748	54 045
Mullite	23 113	12 279	47 775	72 049	51 709
Greece	2 662	505	44	220	94
Hungary					
Sillimanite minerals	2 812	1 892	2 100	2 903	3 039
Mullite	1 192	649	1 348	1 854	1 352

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Italy					
Sillimanite minerals	19 422	38 590	14 473	17 937	11 720
Mullite	11 194	6 582	16 141	13 564	16 084
Netherlands					
Sillimanite minerals	3 400	2 425	3 576	13 342	13 177
Mullite	18 557	21 064	51 745	64 162	34 244
Norway	2 702	4 359	3 456	3 208	3 626
Poland					
Sillimanite minerals	16 975	7 852	17 956	13 791	17 567
Mullite	3 728	1 040	2 109	2 817	2 757
Portugal	646	573	466	641	2 241
Slovakia	1 919	1 812	2 456	2 917	844
Slovenia	511	236	363	921	1 901
Spain					
Sillimanite minerals	26 903	19 824	27 611	32 091	12 372
Mullite	8 006	1 824	4 934	6 153	2 465
Sweden	5 212	2 395	4 782	5 174	4 225
Switzerland	1 128	527	1 162	1 596	1 079
Turkey					
Sillimanite minerals	4 255	4 891	5 466	6 907	6 905
Mullite	5 280	3 635	12 675	10 733	8 827
United Kingdom					
Sillimanite minerals	11 920	7 763	7 419	12 485	10 562
Mullite	6 488	5 255	8 276	3 491	4 588

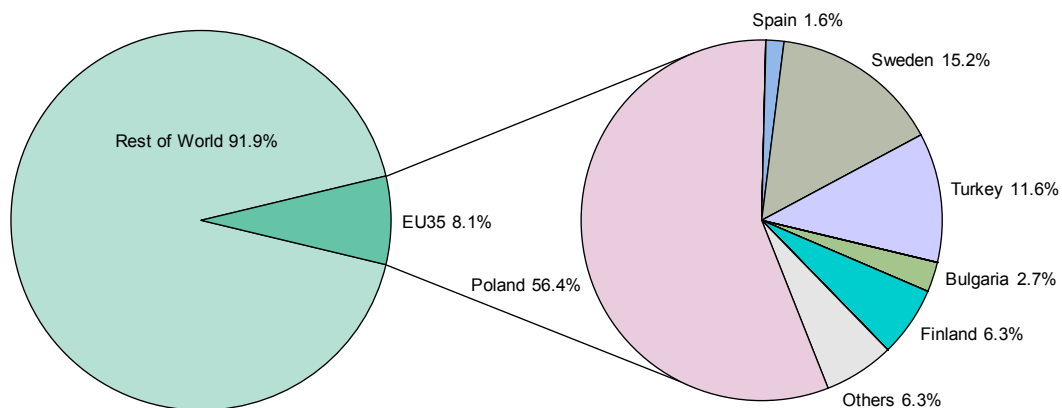
Note(s)

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

Silver

- Silver is a ductile and malleable metallic element that has the highest electrical and thermal conductivity of all metals. It is widely used in electronics although the most important uses are in photography (silver nitrate) and making mirrors.
- Silver is more common than the other precious metals, although still much rarer than base and ferrous metals. It is rarely mined in its own right, and is chiefly produced as a by-product of lead, tin or copper mining. Mexico was the world's largest producer in 2012, with 21 per cent of the total world output. The second and third largest producers were China and Peru (with 14 per cent each), followed by Australia (seven per cent) and Russia (six per cent).

EU35 Mine production of silver 2012



Mine production of silver

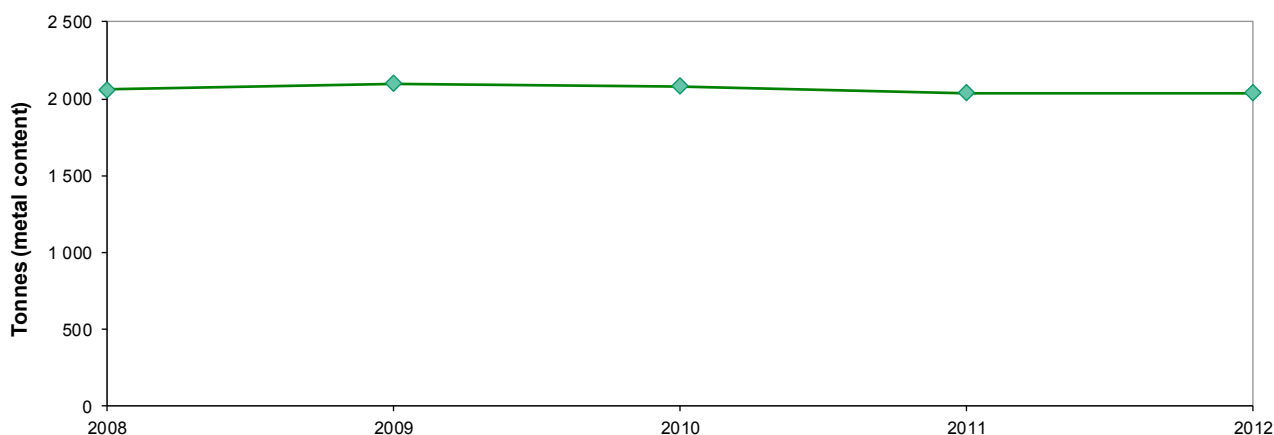
kilograms (metal content)

Country	2008	2009	2010	2011	2012
Bulgaria	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Finland	69 906	70 062	64 596	73 081	128 200
Greece	33 500	27 500	29 000	* 29 000	* 31 000
Ireland, Republic of	7 172	5 267	3 818	6 109	9 454
Macedonia	* 40 000	* 35 000	* 32 000	* 30 000	* 31 000
Poland	1 221 000	1 221 000	1 183 000	1 167 000	1 149 000
Portugal	26 273	20 483	20 561	28 027	29 890
Romania	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Serbia (a)	2 300	4 424	4 384	7 380	8 388
Slovakia	198	201	320	330	441
Spain	—	2 200	20 800	29 900	32 603
Sweden	293 068	288 590	302 145	301 959	309 337
Turkey	* 294 000	351 600	348 000	292 400	236 400
United Kingdom	398	514	506	531	230
EU35 Total	2 061 000	2 100 000	2 082 000	2 039 000	2 039 000

Note(s)

(a) Smelter and/or refinery production

EU35 Mine production of silver 2008 - 12



Exports of silver

kilograms

Country	2008	2009	2010	2011	2012
Austria					
Metal	95 000	98 600	100 300	136 000	155 200
Belgium					
Ores and concentrates	33 100	6 200	12 300	2 149 800	1 409 800
Metal	41 900	69 900	21 800	197 000	311 900
Bulgaria					
Ores and concentrates	...	...	...	8 900	...
Metal	36 516	58 565	37 300	35 200	49 000
Croatia					
Metal	163	313	93	839	2 558
Cyprus					
Metal	...	100	400	1 900	2 500
Czech Republic					
Metal	117 325	77 000	74 600	399 700	187 000
Denmark					
Ores and concentrates	200	...	...	422 100	1 533 800
Metal	18 782	37 200	30 300	53 800	30 100
Estonia					
Metal	13	955	200	4 600	1 600
Finland					
Metal	3 400	1 680	1 162	1 336	1 084
France					
Ores and concentrates	51 100	1 597 157	—	4 053	319
Metal	215 148	169 806	258 205	511 716	392 507
Germany					
Metal	3 012 400	2 169 994	3 397 674	3 368 313	2 984 504
Greece					
Metal	7 400	79 400	19 700	13 900	14 100
Hungary					
Metal	139	1 300	3 300	29 200	4 000
Ireland, Republic of					
Metal	...	...	...	263	824
Italy					
Metal	519 148	383 782	715 501	995 384	979 652
Lithuania					
Metal	600	200	1 100	1 600	2 900
Luxembourg					
Metal	100	—	—	600	11 600
Malta					
Metal	...	...	100	500	500
Netherlands					
Ores and concentrates	18 000	—	1 458	6 944	123
Metal	208 300	196 180	216 182	624 589	241 614

Silver

Exports continued

kilograms

Country	2008	2009	2010	2011	2012
Norway					
Metal	59 381	58 979	57 617	62 849	49 856
Poland					
Metal	1 121 900	1 265 200	1 281 800	1 328 900	1 378 800
Portugal					
Ores and concentrates	13 500	11 500	12 300	16 300	15 100
Metal	7 876	580	3 400	10 600	40 600
Serbia					
Metal	6 937	3 670	4 355	4 222	3 044
Slovakia					
Metal	6 061	2 700	39 100	15 100	31 500
Slovenia					
Metal	8 800	1 600	3 100	3 600	3 800
Spain					
Ores and concentrates	—	30	377	9 847	30 748
Metal	379 675	233 084	417 381	383 412	626 782
Sweden					
Metal	521 200	476 300	412 900	428 500	480 100
Switzerland					
Metal	1 444 198	916 560	1 456 475	1 779 063	77 978
Turkey					
Metal	20 897	170 009	144 942	202 886	216 509
United Kingdom					
Ores and concentrates	192	1 338	2 035	206	—
Metal	6 071 009	943 522	2 579 909	3 937 294	3 197 152
Waste and scrap	5 447 491	8 412 093	5 160 290	11 649 846	19 737 958

Note(s)

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

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

Imports of silver

kilograms

Country	2008	2009	2010	2011	2012
Austria					
Metal	441 900	431 500	481 800	804 000	331 500
Belgium					
Ores and concentrates	253 700	1 567 600	6 000 300	7 619 600	25 085 300
Metal	351 300	225 700	86 500	71 100	80 200
Bulgaria					
Metal	2 189	871	2 408	4 300	12 800
Croatia					
Metal	3 293	2 353	3 212	3 868	3 309
Cyprus					
Metal	2 863	1 993	1 200	2 200	500
Czech Republic					
Ores and concentrates	...	5 700	990 200	—	—
Metal	1 557 076	163 316	136 000	1 635 700	993 700
Denmark					
Metal	51 992	1 873 817	612 600	172 900	66 700
Estonia					
Metal	5 800	2 900	3 200	5 000	1 700
Finland					
Metal	44 800	(a)* 47 900	50 681	26 764	19 618
France					
Ores and concentrates	21 300	4 279	4 433 810	8 499	100 102
Metal	544 821	435 001	954 773	908 080	612 382
Germany					
Ores and concentrates	6 024 500	2 581 290	4 002 438	3 493 141	5 279 656
Metal	2 668 900	1 784 960	2 322 566	2 434 577	1 858 257
Greece					
Metal	276 100	31 300	29 900	55 100	51 900

Imports continued

kilograms

Country	2008	2009	2010	2011	2012
Hungary					
Metal	8 354	128 985	196 500	234 100	229 700
Iceland					
Metal	858	1 096	909	700	640
Ireland, Republic of					
Metal	29 530	5 316	3 999	5 431	3 571
Italy					
Ores and concentrates	—	15	70 440	31 391	11 644
Metal	1 167 457	881 205	1 120 080	729 807	645 344
Latvia					
Metal	1 174	556	791	2 300	1 400
Lithuania					
Metal	6 900	5 800	6 300	7 800	9 200
Luxembourg					
Metal	7 061	3 738	24 304	11 000	2 800
Macedonia					
Metal	3 807	2 229	3 294	3 779	2 032
Malta					
Metal	5 455	1 090	128	100	100
Netherlands					
Metal	265 925	218 279	304 219	338 239	301 089
Norway					
Ores and concentrates (a)	* 200	* 5 700	* 1 100	* 700	* 4 700
Metal	67 398	47 040	57 422	49 727	47 768
Poland					
Metal	95 200	122 900	106 700	78 600	82 800
Portugal					
Metal	22 678	18 602	66 900	38 700	22 200
Romania					
Metal (a)	* 9 400	* 8 800	* 27 500	* 8 100	* 15 900
Slovakia					
Metal	8 200	9 000	55 300	* 47 000	268 700
Slovenia					
Metal	45 000	17 800	24 100	29 700	25 100
Spain					
Ores and concentrates	75 633	66 088	11 317	17 131	123 171
Metal	1 547 747	754 262	1 513 257	828 017	431 934
Sweden					
Ores and concentrates	(a)* 2 466 000	2 330 100	...	...	...
Metal	122 200	85 300	83 700	90 900	94 900
Switzerland					
Ores and concentrates (a)	* 9 600	* 100 900	* 55 800	* 15 107 700	* 39 212
Metal	1 520 531	2 136 092	1 746 243	2 155 625	2 397 273
Turkey					
Metal	154 639	57 700	90 064	209 909	226 227
United Kingdom					
Ores and concentrates	8 332	1 106	9 737	1 209	6 287
Metal	3 943 638	6 649 190	3 278 015	3 686 011	8 525 994
Waste and scrap	4 222 712	3 311 165	4 137 096	13 713 610	5 946 307

Note(s)

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

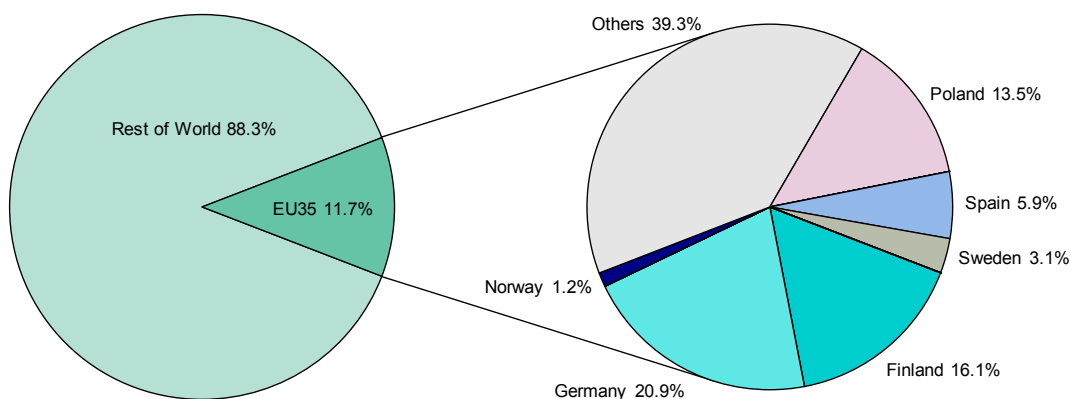
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

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

Sulphur and pyrites

- Sulphur is a fundamental feedstock 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 2012 were the USA (13 per cent of the total world output), followed by Russia (11 per cent) and China (ten per cent). The largest world producer of pyrites and sulphur ore was China (with 92 per cent and 95 per cent respectively of the total world output).

EU35 Production of sulphur and pyrites 2012



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	2008	2009	2010	2011	2012
Austria					
Recovered (a)	48 024	48 624	40 512	48 612	47 572
Denmark					
Recovered (a)	3 467	4 200	3 246	3 045	3 925
Finland					
Pyrites	226 000	153 600	250 000	338 000	375 000
Recovered (b)	331 000	273 600	270 000	940 000	990 000
Recovered (a)	117 000	127 000	122 000	133 300	* 140 000
Germany					
Recovered (a)	1 578 000	1 504 000	1 455 000	1 465 000	* 1 460 000
Recovered (c)	39 000	565 000	513 000	542 210	493 169
Lithuania					
Recovered (a)	73 870	69 722	73 470	76 699	73 040
Norway					
Recovered (b)	* 95 000	* 90 000	* 96 000	* 96 000	* 96 000
Recovered (a)	28 000	25 000	22 000	19 000	* 20 000
Poland					
Frasch	762 119	262 769	516 742	657 100	676 500
Recovered (b)	294 000	257 000	253 000	310 500	* 300 000
Recovered (a)	215 000	214 382	250 075	259 000	285 000
Spain					
Recovered (b)	551 000	533 000	547 000	490 000	* 450 000
Recovered (a)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Sweden					
Recovered (b)	199 600	186 100	179 833	202 289	194 279
Recovered (a)	84 456	83 646	83 947	92 973	93 442

Production continued

tonnes (sulphur content)

Country	2008	2009	2010	2011	2012
Other EU35 countries	3 494 000	3 497 000	3 484 000	3 572 000	3 523 000
EU35 Total					
Pyrites	305 000	233 000	329 000	417 000	454 000
Frasch	762 000	263 000	517 000	657 000	677 000
Recovered	7 172 000	7 499 000	7 415 000	8 272 000	8 190 000

Note(s)

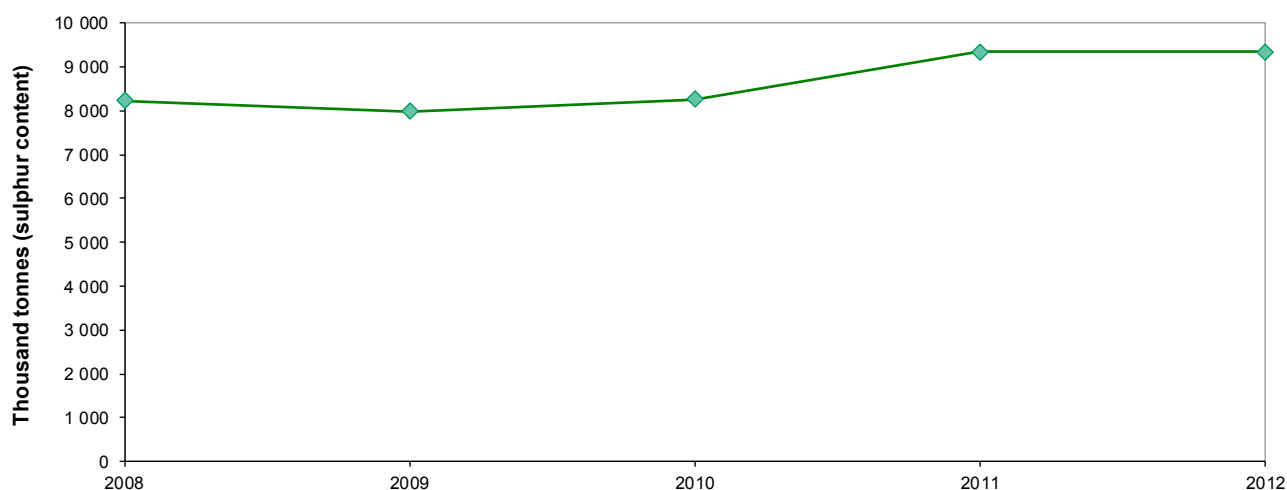
(1) Other Europe includes: Belgium, Bulgaria, Croatia, Czech Republic, Greece, Hungary, Italy, Netherlands, Portugal, Romania, Slovakia, Turkey and the United Kingdom

(a) From petroleum refining and/or natural gas

(b) From metal sulphide processing

(c) Other

EU35 Production of sulphur and pyrites 2008 - 12



Exports of sulphur and pyrites

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Pyrites	2 672	1 740	2 794	2 887	2 579
Sulphur	3 292	472	90	140	131
Sulphur, sublimed and precipitated	3 906	7 423	1 145	746	2 138
Belgium					
Sulphur	75 305	74 232	21 533	34 087	10 274
Sulphur, sublimed and precipitated	368	345	193	83	119
Bulgaria					
Sulphur	28 993	20 840	40 286	38 097	41 601
Croatia					
Sulphur	7 604	8 664	6 565	14 256	15 801
Czech Republic					
Sulphur	16 670	20 153	12 124	980	1 852
Denmark					
Sulphur	4	6	12	39	4 814
Finland					
Pyrites (a)	* 386 000	* 88 000	* 198 000	* 460 000	* 520 000
Sulphur	2 521	35 701	2 715	2 404	2 871
France					
Sulphur	246 005	313 229	296 345	248 989	237 974
Sulphur, sublimed and precipitated	2 843	445	565	556	394

Sulphur and Pyrites

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Germany					
Pyrites	485	320	755	440	342
Sulphur	654 808	681 563	671 836	721 717	525 622
Sulphur, sublimed and precipitated	350	78	271	1 380	274
Greece					
Pyrites	63 893	24 429	28 680	42	3 776
Sulphur	16 345	4 044	4 594	35 279	167 611
Hungary					
Sulphur	43 649	39 638	44 098	48 616	43 855
Italy					
Pyrites	10 071	6 005	13 698	16 032	11 114
Sulphur	219 095	256 614	286 954	285 891	249 274
Sulphur, sublimed and precipitated	4 693	21 430	22 485	55 740	17 021
Lithuania					
Sulphur	1 517	14 038	1 227	403	759
Netherlands					
Pyrites	132 802	10 039	56 610	101 114	84 734
Sulphur	850 183	36 898	480 968	469 819	561 995
Poland					
Sulphur	446 202	152 484	402 102	394 861	506 641
Sulphur, sublimed and precipitated	27 041	29 540	34 752	26 542	29 757
Portugal					
Sulphur	7 539	5 737	6 164	9 737	7 065
Romania					
Pyrites	994	6 315	8	5	—
Sulphur	59 030	49 052	55 961	58 437	54 016
Serbia					
Sulphur	4 424	1 451	2 335	3 571	2 760
Slovakia					
Sulphur, sublimed and precipitated	71 373	72 613	72 910	82 785	74 817
Slovenia					
Sulphur	9 795	3 764	1 016	145	190
Spain					
Sulphur	116 213	198 585	138 168	361 188	438 368
Sulphur, sublimed and precipitated	338	523	612	289	264
Sweden					
Sulphur	5 525	3 018	2 768	3 980	10 145
Sulphur, sublimed and precipitated	13 128	12 242	11 564	10 344	5 248
Switzerland					
Sulphur	335	4 837	5 310	4 864	2 160
Turkey					
Sulphur	21 289	6 495	279 822	56 143	59 116
Sulphur, sublimed and precipitated	17 259	14 769	21 068	7 949	8 757
United Kingdom					
Sulphur, crude	13 182	2 545	41 491	101 964	37 239
Sulphur, refined	27 872	38 723	1 198	3 686	14 609
Sulphur, sublimed and precipitated	1 144	1 902	1 349	2 151	21 385

Note(s)

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

Imports of sulphur and pyrites

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Pyrites	3 754	1 614	3 154	3 321	3 340
Sulphur	89 038	68 881	75 065	70 892	49 910
Sulphur, sublimed and precipitated	17 842	14 961	15 331	22 109	16 997
Belgium					
Sulphur	611 170	460 990	592 348	562 688	568 833
Sulphur, sublimed and precipitated	1 852	750	621	473	558

Imports continued					tonnes
Country	2008	2009	2010	2011	2012
Croatia					
Sulphur	98 785	10 349	2 877	2 752	1 503
Sulphur, sublimed and precipitated	4	51	105	156	142
Cyprus					
Sulphur	895	1 011	951	625	604
Czech Republic					
Pyrites	1 576	299	250	247	384
Sulphur	43 473	20 986	14 762	14 945	70 008
Sulphur, sublimed and precipitated	65 242	71 033	82 355	93 289	39 459
Denmark					
Sulphur	2 082	4 447	7 051	6 123	4 173
Finland					
Sulphur	9 073	1 673	21 676	38 923	29 283
Sulphur, sublimed and precipitated	450	6	3	4	43
France					
Pyrites	173	159	183	206	136
Sulphur	50 092	55 212	78 366	92 106	108 471
Sulphur, sublimed and precipitated	5 861	403	410	441	481
Germany					
Pyrites	109 955	52 641	76 101	82 530	74 726
Sulphur	53 602	38 246	44 103	51 714	34 102
Sulphur, sublimed and precipitated	2 964	2 856	1 649	4 363	4 637
Greece					
Pyrites	40 754	3	1	0	46
Sulphur	42 733	26 673	42 673	80 976	31 788
Hungary					
Sulphur	2 105	(a)* 1 200	3 189	1 100	981
Sulphur, sublimed and precipitated	586	186	119	223	172
Ireland, Republic of					
Sulphur, sublimed and precipitated	305	74	17	0	...
Italy					
Pyrites	20 984	228	13 538	29 746	10 436
Sulphur	48 618	13 305	19 263	30 290	22 499
Sulphur, sublimed and precipitated	2 711	3 617	758	732	887
Latvia					
Sulphur	9	12 488	24	21	18
Lithuania					
Sulphur	293 365	319 353	326 485	298 977	293 839
Sulphur, sublimed and precipitated	404	18	1	0	3
Luxembourg					
Sulphur	5 771	2 981	2 166	1 789	1 432
Netherlands					
Pyrites	145 627	2 119	48	1 593	329
Sulphur	55 173	11 430	49 399	229 496	80 459
Sulphur, sublimed and precipitated	0	2	4	7	3 736
Norway					
Sulphur	4 690	3 102	2 897	3 051	2 725
Sulphur, sublimed and precipitated	12 932	12 127	11 515	11 627	12 685
Poland					
Pyrites	5 768	813	1 866	1 255	1 480
Sulphur	104 300	35 350	44 939	53 828	30 488
Sulphur, sublimed and precipitated	105	978	164	387	6
Portugal					
Sulphur	2 852	3 366	4 861	3 981	2 726
Romania					
Pyrites	1 072	1	1	51	12
Sulphur	2 390	1 884	2 561	2 965	6 246
Sulphur, sublimed and precipitated	180	1 254	2 062	2 074	1 807
Serbia					
Sulphur	338	621	674	721	635
Slovakia					
Sulphur	4 553	2 462	3 855	3 173	3 115
Sulphur, sublimed and precipitated	1 518	1 046	864	1 510	735
Slovenia					
Pyrites	683	353	645	836	921
Sulphur	56 381	53 615	57 411	56 490	51 225

Sulphur and Pyrites

Imports continued

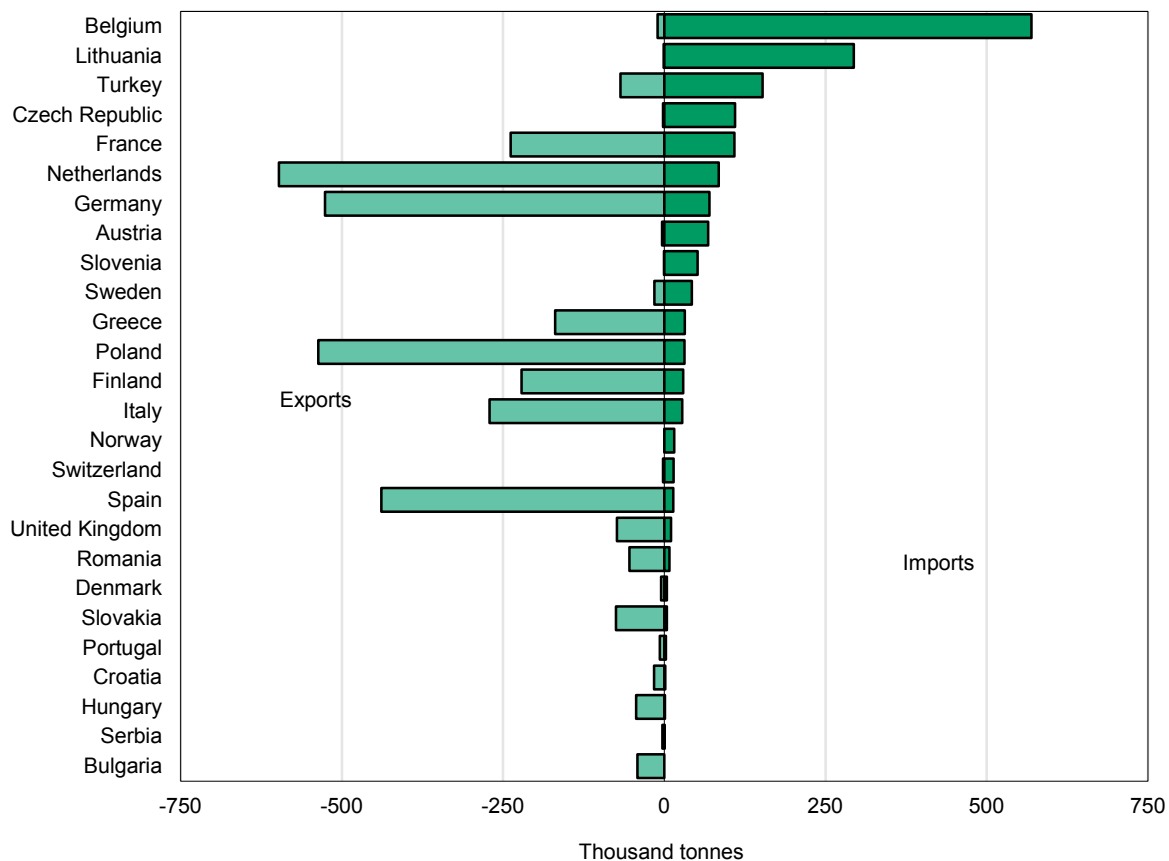
tonnes

Country	2008	2009	2010	2011	2012
Spain					
Pyrites	1 903	958	1 160	476	384
Sulphur	153 575	24 015	68 214	44 724	13 291
Sulphur, sublimed and precipitated	372	187	229	176	300
Sweden					
Pyrites	691	544	874	825	744
Sulphur	78 784	21 772	56 961	65 296	42 457
Sulphur, sublimed and precipitated	112	143	200	145	130
Switzerland					
Pyrites	...	...	...	...	131
Sulphur	17 425	12 086	17 414	13 072	14 257
Turkey					
Pyrites	224	67	480	323	142
Sulphur	128 685	164 034	141 478	161 866	151 955
Sulphur, sublimed and precipitated	321	1 315	592	292	382
United Kingdom					
Pyrites	704	104	2 581	1 734	168
Sulphur, crude	64	74	274	590	1 125
Sulphur, refined	9 574	6 211	10 201	10 391	8 670
Sulphur, sublimed and precipitated	1 186	473	767	691	698

Note(s)

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

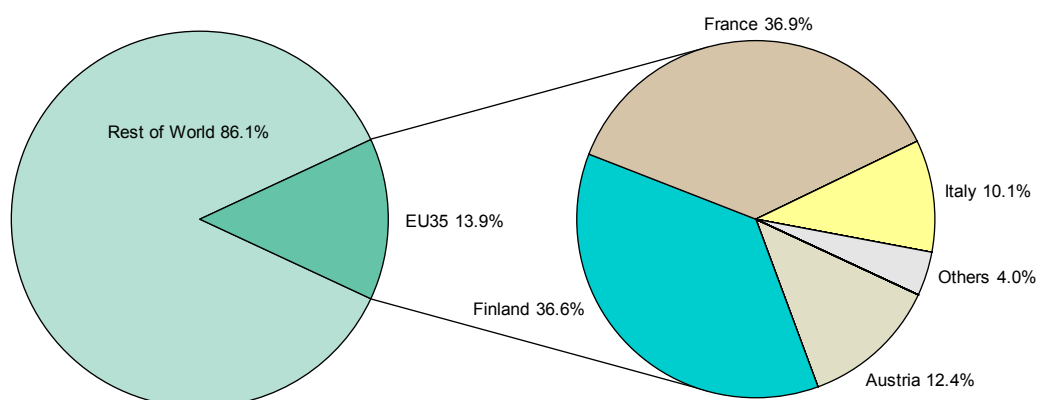
Sulphur and pyrites - EU35 trade in 2012



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 2012, with 28 per cent of the total world output. The second largest was India (15 per cent), followed by USA (eight per cent), South Korea, Mexico and Brazil (all with six per cent each).

EU35 Production of talc 2012

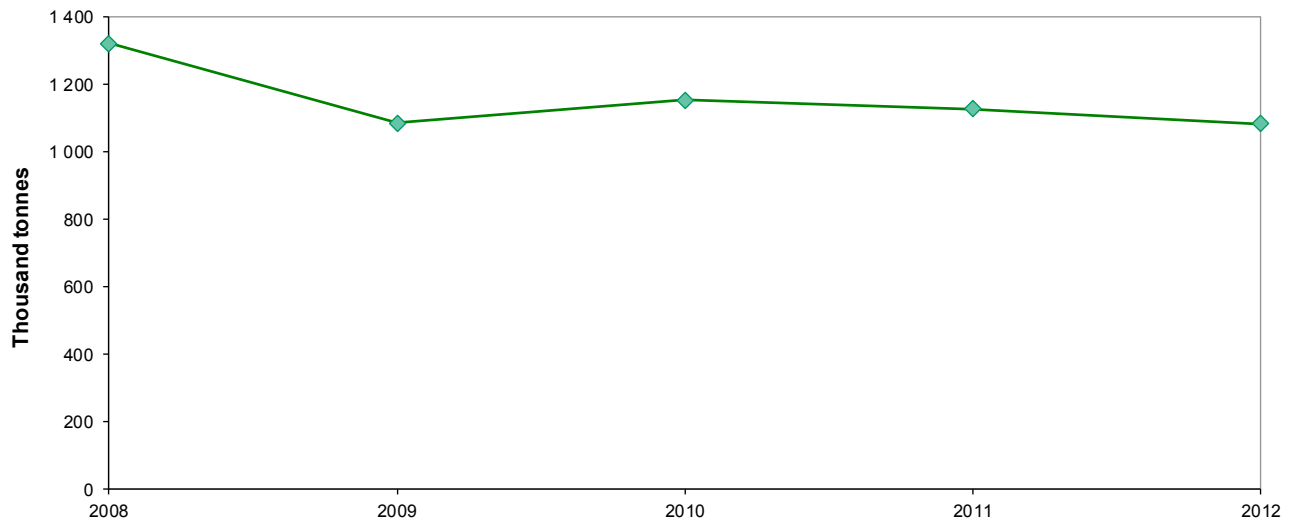


Production of talc

tonnes

Country	2008	2009	2010	2011	2012
Austria	154 577	111 388	138 367	132 018	134 665
Finland	527 686	375 302	419 345	429 494	396 332
France	* 420 000	400 000	400 000	400 000	* 400 000
Greece	* 200	* 200	* 200	* 200	* 200
Italy	* 110 000	* 110 000	* 110 000	* 110 000	* 110 000
Macedonia	977	682	1 292	547	286
Norway	* 30 000	23 350	6 392	8 191	7 983
Portugal	11 657	11 567	11 981	15 462	15 131
Romania	1 843	570	296	131	13
Slovakia	—	—	7 000	7 000	2 000
Spain					
Talc	59 299	47 218	51 897	11 957	8 857
Pyrophyllite	—	—	—	5 600	* 5 000
Sweden	4 000	4 000	4 000	3 000	—
United Kingdom	2 410	2 861	2 633	3 708	3 667
EU35 Total	1 323 000	1 087 000	1 153 000	1 127 000	1 084 000

EU35 Production of talc 2008 - 12



Exports of talc

tonnes

Country	2008	2009	2010	2011	2012
Austria	135 390	106 423	106 271	115 967	121 264
Belgium	139 619	112 983	128 526	125 040	109 253
Czech Republic	386	182	169	298	214
Denmark	165	269	409	235	235
Finland (a)	* 320 000	* 174 000	* 222 000	* 259 000	* 249 000
France	269 771	224 419	270 494	269 518	271 399
Germany	6 382	3 662	4 773	6 243	5 274
Greece	3 926	3 898	2 809	4 086	9 312
Italy	114 017	124 212	143 236	135 418	140 618
Macedonia	509	528	636	648	380
Netherlands	186 688	147 544	173 042	147 492	150 456
Norway	27 371	23 461	728	2 204	535
Poland	829	793	869	744	830
Portugal	3 841	2 699	4 316	2 526	2 224
Slovakia	1 994	45	47	38	25
Spain	51 180	29 580	11 206	28 980	9 771
Sweden	9 227	8 032	9 014	8 308	4 598
Turkey	1 636	1 712	2 865	2 711	2 635
United Kingdom	3 129	2 402	3 074	3 171	5 026

Note(s)

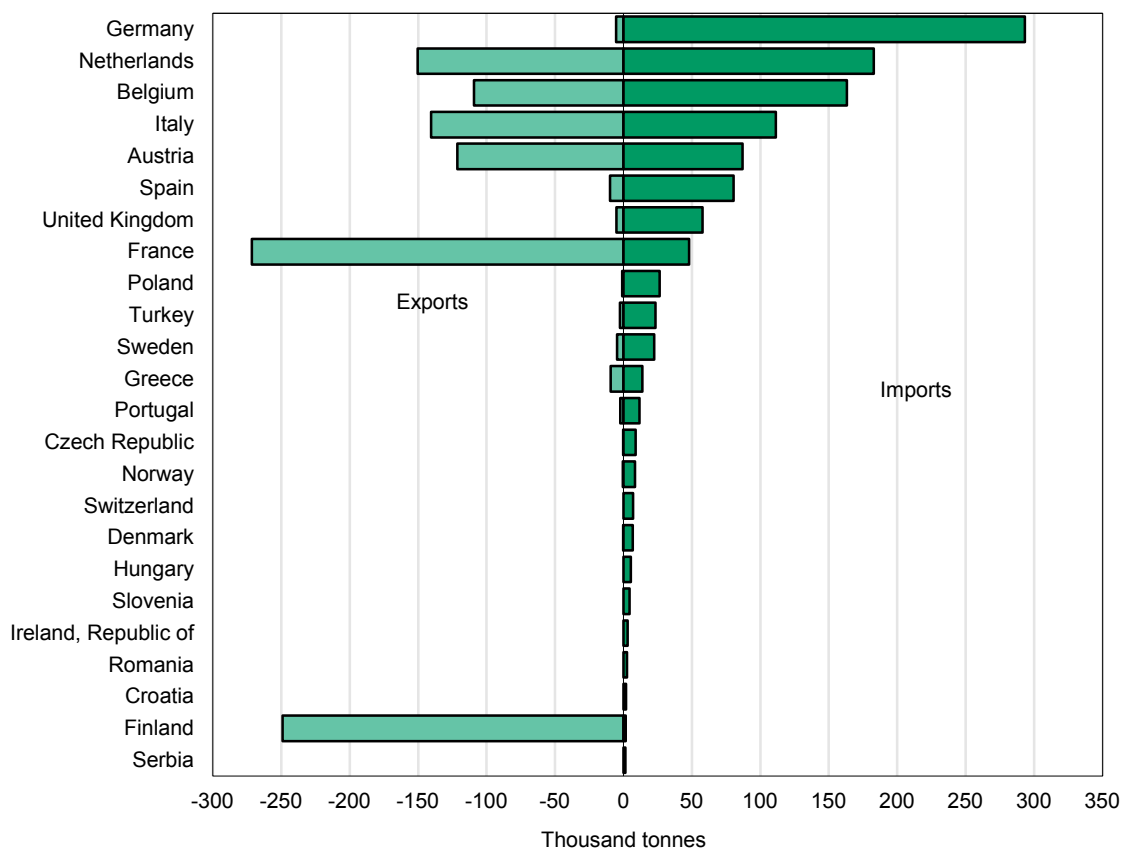
(a) BGS estimates, based on known imports into certain countries

Imports of talc

tonnes

Country	2008	2009	2010	2011	2012
Austria	68 797	37 648	74 554	93 985	86 891
Belgium	194 823	149 757	183 625	175 662	163 309
Bulgaria	1 048	747	512	985	956
Croatia	1 709	1 721	1 813	1 578	1 774
Cyprus	521	290	307	267	133
Czech Republic	11 007	9 312	9 570	12 686	8 827
Denmark	12 055	8 035	7 013	6 276	6 883
Estonia	331	332	373	451	429
Finland	503	525	1 202	1 929	1 624
France	76 147	72 274	59 722	48 155	47 883
Germany	338 606	293 417	324 703	330 321	293 175
Greece	12 372	7 862	8 869	8 663	13 779
Hungary	8 875	7 566	6 786	6 226	5 319
Ireland, Republic of	473	1 722	1 140	1 320	3 033
Italy	147 549	78 506	100 934	115 046	111 333
Latvia	417	314	295	145	126
Lithuania	388	225	270	190	154
Netherlands	207 922	94 407	178 312	199 302	182 898
Norway	8 020	6 517	8 356	8 364	8 374
Poland	28 186	18 325	23 331	26 212	26 430
Portugal	26 774	18 537	24 143	22 388	11 746
Romania	1 971	1 105	2 099	2 248	2 593
Serbia	1 733	1 236	1 616	1 270	1 432
Slovakia	2 448	1 030	719	380	470
Slovenia	12 860	13 756	10 793	4 489	4 413
Spain	85 942	81 043	82 425	88 655	80 421
Sweden	45 801	28 459	25 998	22 202	22 507
Switzerland	8 756	7 987	8 490	7 666	6 975
Turkey	17 706	14 893	20 026	26 952	23 496
United Kingdom	53 864	39 520	50 309	53 339	57 751

Talc - EU35 trade in 2012



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 producer of tantalum (in terms of content) in 2012 was Rwanda (with 27 per cent of the total world output), followed by Australia (with 17 per cent) and Brazil (15 per cent). 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 and niobium

tonnes

Country	2008	2009	2010	2011	2012
Austria	20	35	27	29	21
Belgium	26	2	4	2	2
Czech Republic	97	62	95	110	86
Estonia	67	47	34	76	49
France	18	37	20	25	41
Germany	299	8	18	38	33
Lithuania	31	11	9	18	10
Netherlands	2	4	22	42	19
Portugal	48	49	98	81	50
Turkey	...	126	2	—	22
United Kingdom	55	72	191	97	336

Note(s)

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

Imports of tantalum and niobium

tonnes

Country	2008	2009	2010	2011	2012
Austria	—	—	17	4	5
Czech Republic	253	141	265	222	175
Estonia	6	—	37	20	1
France	84	43	22	39	49
Germany	188	67	231	376	221
Hungary	...	0	32	0	—
Ireland, Republic of	2	4	85	0	1
Lithuania	38	24	12	13	4
Netherlands	10	4	6	9	(a)* 24
Poland	52	1	3	1	—
Portugal	83	22	41	44	33
United Kingdom	161	145	284	176	144

Note(s)

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

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

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 2012, with 40 per cent of the total world output. The second largest was Indonesia (31 per cent), followed by Peru (nine per cent), Bolivia (seven per cent) and Brazil (four per cent).
- China was also the world's largest producer of refined tin in 2012, with 46 per cent of the total world output. The second largest was Indonesia (15 per cent), followed by Malaysia (12 per cent), Peru (eight per cent) and Thailand (six per cent).

Mine production of tin

tonnes (metal content)

Country	2008	2009	2010	2011	2012
Portugal	29	34	22	39	42
Spain	—	—	—	9	69

EU35 Mine production of tin 2008 - 12



Smelter production of tin

tonnes

Country	2008	2009	2010	2011	2012
Belgium	9 200	8 700	9 900	10 000	11 400

Note(s)

(1) Figures include both primary and secondary metal

Exports of tin

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought (a)	177	71	60	98	103
Scrap	141	53	49	56	54
Belgium					
Concentrates	161	42	127	95	107
Unwrought	7 274	4 753	5 114	4 261	7 428
Unwrought alloys	2 448	5 000	6 236	6 427	5 018
Scrap	233	127	207	1 195	308
Czech Republic					
Unwrought (a)	86	76	276	18	7
Scrap	85	118	44	167	191
Estonia					
Scrap	88	124	120	56	121
Finland					
Scrap	193	124	142	139	171
France					
Concentrates	16	44	341	89	74
Unwrought	441	402	423	413	485
Unwrought alloys	236	140	143	178	145
Scrap	654	282	342	532	484
Germany					
Concentrates	—	163	32	...	—
Unwrought	1 612	1 000	1 253	1 348	1 223
Unwrought alloys	1 530	1 088	956	1 459	1 352
Scrap	1 649	1 129	1 440	1 175	1 141
Hungary					
Unwrought (a)	140	82	44	43	41
Scrap	246	222	196	222	268
Ireland, Republic of					
Unwrought	(a) 34	(a) 23	(a) 689	—	—
Italy					
Unwrought (a)	392	411	367	383	582
Scrap	249	154	289	243	240
Latvia					
Scrap	3	...	175	8	2
Malta					
Scrap	250	* 1	* 3	4	134
Netherlands					
Unwrought	2 566	1 536	4 043	3 619	5 670
Unwrought alloys	948	558	856	357	314
Scrap	157	547	544	465	363
Norway					
Scrap	119	12	39	30	30
Poland					
Unwrought (a)	355	279	408	536	533
Portugal					
Unwrought	—	250	—	31	4
Scrap	147	9	43	82	200
Romania					
Unwrought (a)	51	66	68	128	67
Slovakia					
Unwrought	107	(a) 9	(a) 8	11	688
Spain					
Unwrought (a)	433	427	513	449	558
Scrap	447	2 038	376	4 543	2 436
Sweden					
Unwrought (a)	213	122	163	52	32
Switzerland					
Unwrought (a)	114	87	60	16	8
Scrap	76	136	118	131	169
Turkey					
Unwrought (a)	118	37	79	56	43

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Concentrates	254	61	163	58	241
Unwrought	1 264	928	1 856	1 797	2 092
Unwrought alloys	532	537	389	545	246
Scrap	19 110	22 597	13 115	4 414	3 435

Note(s)

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

(a) Including alloys

Imports of tin

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought (a)	2 679	1 915	2 923	3 403	3 186
Belgium					
Concentrates	318	16	200	488	253
Unwrought	1 100	1 350	1 131	847	1 365
Unwrought alloys	2 235	2 638	3 289	2 785	3 109
Scrap	2 422	2 327	3 560	3 551	7 001
Bulgaria					
Unwrought (a)	69	22	47	359	215
Czech Republic					
Unwrought (a)	802	937	449	651	631
Denmark					
Unwrought (a)	30	13	110	136	195
Finland					
Unwrought (a)	184	94	188	136	124
France					
Unwrought	6 506	5 869	5 787	5 252	4 815
Unwrought alloys	554	207	389	283	266
Scrap	588	259	100	61	107
Germany					
Unwrought	22 160	14 193	18 684	21 396	18 865
Unwrought alloys	179	175	316	112	196
Scrap	2 243	674	714	1 578	461
Greece					
Unwrought (a)	265	80	160	211	70
Hungary					
Unwrought (a)	320	208	231	156	205
Ireland, Republic of					
Unwrought (a)	389	100	157	117	22
Italy					
Unwrought	4 124	2 652	3 828	4 936	3 375
Unwrought alloys	777	360	1 074	533	429
Scrap	79	49	60	220	22
Netherlands					
Unwrought	11 003	7 071	13 967	11 303	7 453
Unwrought alloys	2 540	504	665	505	276
Scrap	503	380	606	524	424
Poland					
Concentrates	...	220	98	...	...
Unwrought (a)	1 857	1 102	1 317	1 579	1 281
Scrap	1 038	1 664	1 605	2 790	3 689
Portugal					
Unwrought	487	308	317	560	435
Unwrought alloys	130	103	100	19	13
Romania					
Unwrought (a)	127	114	85	125	91
Serbia					
Unwrought	83	49	60	72	148

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Tin

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Slovakia					
Unwrought (a)	2 276	2 059	2 087	2 120	2 091
Slovenia					
Unwrought (a)	87	69	118	70	62
Spain					
Unwrought	7 313	5 457	6 410	5 967	5 744
Unwrought alloys	261	243	172	428	122
Scrap	376	441	2 410	5 386	801
Sweden					
Unwrought (a)	555	364	435	189	149
Switzerland					
Unwrought (a)	1 093	800	863	737	799
Turkey					
Unwrought (a)	2 603	1 630	2 558	2 707	2 195
United Kingdom					
Concentrates	0	6	0	0	—
Unwrought	7 181	4 522	4 327	4 186	3 850
Unwrought alloys	400	370	365	396	1 113
Scrap	448	121	196	121	147

Note(s)

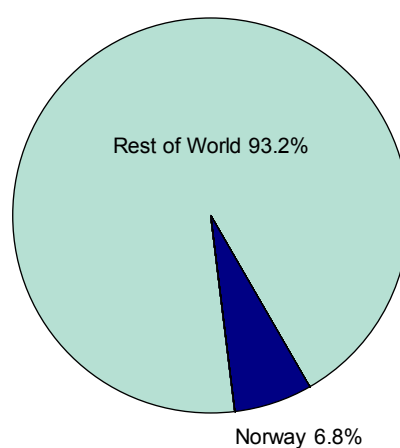
(1) In this table the term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc.

(a) Including alloys

Titanium minerals

- The titanium minerals ilmenite and rutile are the main sources of titanium, but a third mineral leucoxene is also produced. Titanium is 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 2012, with 22 per cent of the total world output. The second largest was Australia (16 per cent), followed by South Africa (12 per cent), Vietnam and China (with nine per cent each).

EU35 Production of titanium minerals 2012



Production of titanium minerals

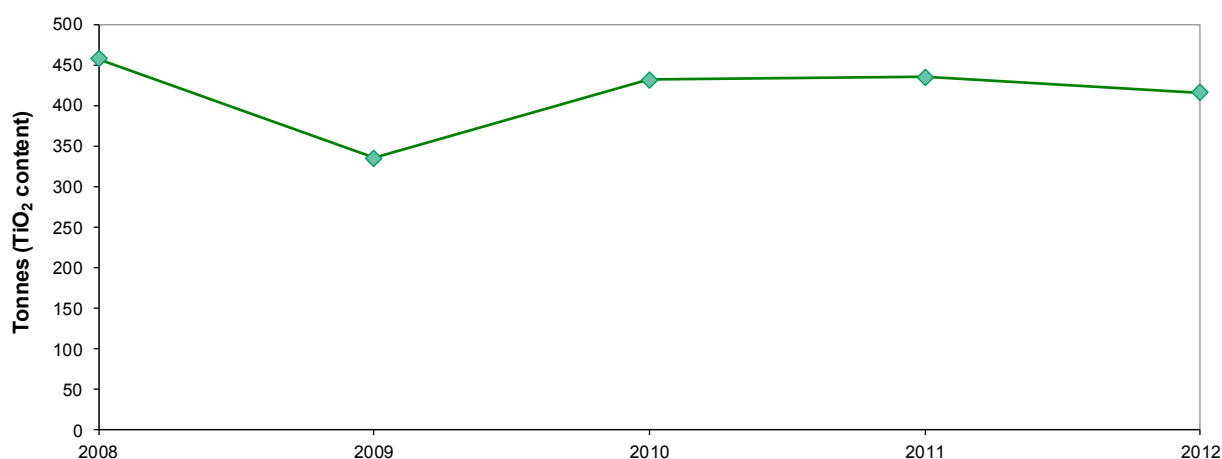
tonnes

Country	2008	2009	2010	2011	2012
Norway					
Ilmenite	915 000	671 000	864 000	870 000	831 000

Note(s)

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

EU35 Production of titanium minerals 2008 - 12



Exports of titanium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metal	717	203	129	224	317
Oxides	6 444	5 344	5 956	4 794	3 965
Belgium					
Titanium minerals	100 134	58 654	106 478	116 859	119 931
Metal	1 157	1 087	895	1 405	1 560
Oxides	401 906	369 495	435 415	390 405	345 752
Titanium slag	5 085	...	...	...	...
Bulgaria					
Metal	835	2	—	849	64
Oxides	94	677	584	987	408
Croatia					
Oxides	417	331	117	172	42
Czech Republic					
Titanium minerals	641	452	2 378	504	684
Metal	84	339	358	264	384
Oxides	42 860	46 753	45 842	45 437	43 174
Denmark					
Metal	152	102	196	125	194
Oxides	460	442	820	5 792	10 732
Estonia					
Oxides	579	158	49	164	468
Finland					
Oxides (a)	* 106 000	* 86 000	* 88 000	* 80 000	* 66 000
France					
Metal	5 391	4 523	4 907	5 333	5 946
Oxides	148 573	113 798	129 197	140 278	114 715
Germany					
Titanium minerals	3 322	6 864	22 384	18 932	13 648
Metal	8 278	5 367	9 351	13 954	12 561
Oxides	367 545	351 872	391 981	345 661	331 757
Greece					
Oxides	598	462	773	731	744
Hungary					
Metal	23	11	55	37	68
Oxides	1 402	1 120	1 942	1 484	1 298
Italy					
Metal	5 478	3 607	3 248	4 789	4 531
Oxides	25 982	23 508	27 450	26 181	22 039
Latvia					
Metal	...	—	7	61	42
Lithuania					
Oxides	1 230	502	1 167	965	1 029
Netherlands					
Titanium minerals	1 341	13 664	101 840	69 170	57 796
Metal	1 551	895	4 117	9 548	10 173
Oxides	15 544	36 179	31 385	11 305	14 836
Norway					
Titanium minerals (a)	* 435 000	* 350 000	* 465 000	* 441 000	* 392 000
Metal	339	227	231	343	243
Oxides (a)	* 217 000	* 207 000	* 35 000	* 35 000	* 31 000
Poland					
Metal	117	105	76	90	47
Oxides	21 509	20 937	20 996	23 401	20 201
Portugal					
Oxides	1 189	1 166	1 091	3 422	5 322
Romania					
Metal	2 469	541	960	550	375
Oxides	150	560	310	498	536
Slovakia					
Metal	76	3	49	24	199
Slovenia					
Metal	40	23	171	346	356
Oxides	55 110	57 866	61 637	53 015	47 488

Titanium

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Spain					
Titanium minerals	155	25 892	2 405	650	4 011
Metal	947	1 018	1 928	1 698	1 779
Oxides	58 342	33 721	35 233	48 870	51 919
Sweden					
Metal	1 002	717	925	1 086	1 111
Oxides	19 992	15 921	20 567	18 331	16 429
Switzerland					
Metal	987	734	805	868	724
Oxides	1 276	1 203	1 466	1 666	1 623
Turkey					
Metal	49	47	85	95	122
Oxides	2 607	2 237	2 650	3 170	2 538
United Kingdom					
Metal	11 155	9 555	12 060	11 926	11 541
Oxides	222 503	203 873	208 518	223 190	142 135

Note(s)

(1) Significant quantities of titanium slag are traded, but it is not always possible to identify this material in national trade accounts

(2) So far as possible, the term 'oxides', as used in this table, includes oxides and oxide based pigments classified under Harmonised System items 2823 and 3206.10

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

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

Imports of titanium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Titanium minerals	520	362	477	580	284
Metal	2 455	1 346	1 381	2 590	3 130
Oxides	30 861	28 258	28 288	32 258	21 255
Belgium					
Titanium minerals	204 688	110 028	181 688	213 276	205 930
Metal	3 739	2 132	1 743	1 582	1 160
Oxides	132 327	108 582	* 314 200	114 760	97 229
Bulgaria					
Titanium minerals	42	105	506	486	735
Metal	203	65	19	46	127
Oxides	5 955	5 329	5 675	6 454	4 593
Croatia					
Oxides	2 989	2 697	3 000	2 911	206
Cyprus					
Oxides	1 603	1 189	1 299	1 141	783
Czech Republic					
Titanium minerals	193 858	140 394	155 485	146 778	98 071
Metal	1 122	918	779	1 333	1 717
Oxides	8 765	7 248	8 857	9 372	7 763
Denmark					
Metal	774	670	674	1 723	1 948
Oxides	17 055	17 511	20 427	23 296	17 706
Estonia					
Metal	97	50	82	5	683
Oxides	2 106	1 349	1 409	1 724	1 921
Finland					
Titanium minerals	26 200	8 794	(a)* 20	(a)* 3 154	(b)* 20
Metal	97	87	60	66	81
Oxides	14 256	12 524	15 571	15 533	13 638
France					
Ilmenite	58 423	17 766	...	...	...
Other titanium minerals	12 531	11 964	(b) 50 893	(b) 67 259	(b) 184 385
Metal	10 036	7 282	7 766	10 026	11 881
Oxides	128 226	136 389	148 994	138 687	123 037
Titanium slag	100 782	92 290	15 218	246	20 762

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Titanium

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Germany					
Ilmenite	446 154	304 471	...	...	...
Other titanium minerals	279 407	212 735	(b) 838 768	(b) 794 043	(b) 648 030
Metal	19 449	11 649	12 919	20 233	17 015
Oxides	281 009	240 120	309 500	329 073	264 304
Titanium slag	76 107	42 042	164	2 499	...
Greece					
Titanium minerals	399	351	504	396	220
Metal	14	11	74	74	47
Oxides	23 260	19 289	19 003	19 447	12 378
Hungary					
Titanium minerals	2 659	(b)* 1 200	2 677	2 410	3 038
Metal	31	216	84	134	116
Oxides	8 590	6 853	8 927	8 885	7 325
Iceland					
Metal	34	99	100	59	75
Ireland, Republic of					
Metal	1 154	507	414	202	432
Oxides	3 961	4 308	4 922	4 312	3 924
Italy					
Titanium minerals	102 909	74 338	98 978	111 842	(b)* 4 132
Metal	7 155	3 352	4 497	9 420	7 367
Oxides	141 959	139 071	160 361	164 708	137 976
Latvia					
Oxides	3 112	562	739	693	640
Lithuania					
Oxides	980	1 259	1 947	2 081	2 028
Luxembourg					
Metal	165	66	456	1 842	786
Oxides	1 051	1 114	1 481	1 534	1 494
Macedonia					
Oxides	426	427	504	502	455
Malta					
Oxides	463	470	463	445	346
Netherlands					
Titanium minerals	87 769	* 100 000	238 199	196 960	158 679
Metal	1 073	1 224	5 330	6 094	5 709
Oxides	37 101	40 914	43 542	52 165	2 973
Norway					
Titanium minerals	73 307	29 809	45 018	25 003	...
Metal	937	389	412	723	890
Oxides	12 241	8 209	10 115	10 376	8 093
Poland					
Titanium minerals	91 208	84 396	105 384	99 055	84 143
Metal	451	264	616	2 020	329
Oxides	41 019	42 031	46 110	54 770	44 098
Portugal					
Titanium minerals	263	358	714	807	429
Oxides	18 800	18 456	20 486	19 813	14 788
Romania					
Titanium minerals	2 171	1 513	2 095	5 393	1 354
Metal	453	707	771	541	776
Oxides	9 127	7 151	8 733	10 571	7 511
Serbia					
Oxides	4 548	3 892	3 888	4 498	3 960
Slovakia					
Titanium minerals	...	0	0	1	2
Metal	329	130	956	2 271	643
Oxides	2 389	2 949	2 109	2 409	2 163
Slovenia					
Titanium minerals	34 930	32 789	25 081	54 387	20 208
Metal	257	233	400	964	739
Oxides	3 296	2 889	2 917	2 884	2 625
Titanium slag	65 180	66 818	...	39 644	57 097

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Spain					
Ilmenite	119 467	26 512	...	...	...
Other titanium minerals	9 133	522	(b) 111 298	(b) 123 284	(b) 99 055
Metal	3 131	1 735	2 627	3 673	3 411
Oxides	138 275	93 267	91 822	90 581	67 970
Titanium slag	10 004	...	...	...	...
Sweden					
Titanium minerals	995	726	1 854	645	629
Metal	2 391	1 593	1 936	2 390	2 245
Oxides	61 890	53 071	61 191	62 054	53 030
Switzerland					
Metal	1 168	862	971	1 081	1 177
Oxides	19 550	17 086	19 725	22 198	16 806
Turkey					
Titanium minerals	7 762	5 628	7 390	9 454	7 328
Metal	163	188	298	357	356
Oxides	106 206	98 100	127 266	144 383	117 269
United Kingdom					
Titanium minerals	194 756	112 091	90 622	32 127	117 860
Metal	32 305	23 178	20 681	69 844	33 943
Oxides	58 747	53 864	59 460	62 311	63 058
Oxides	51 822	48 931	52 957	53 093	58 129
Titanium slag	158 195	127 224	187 913	...	—

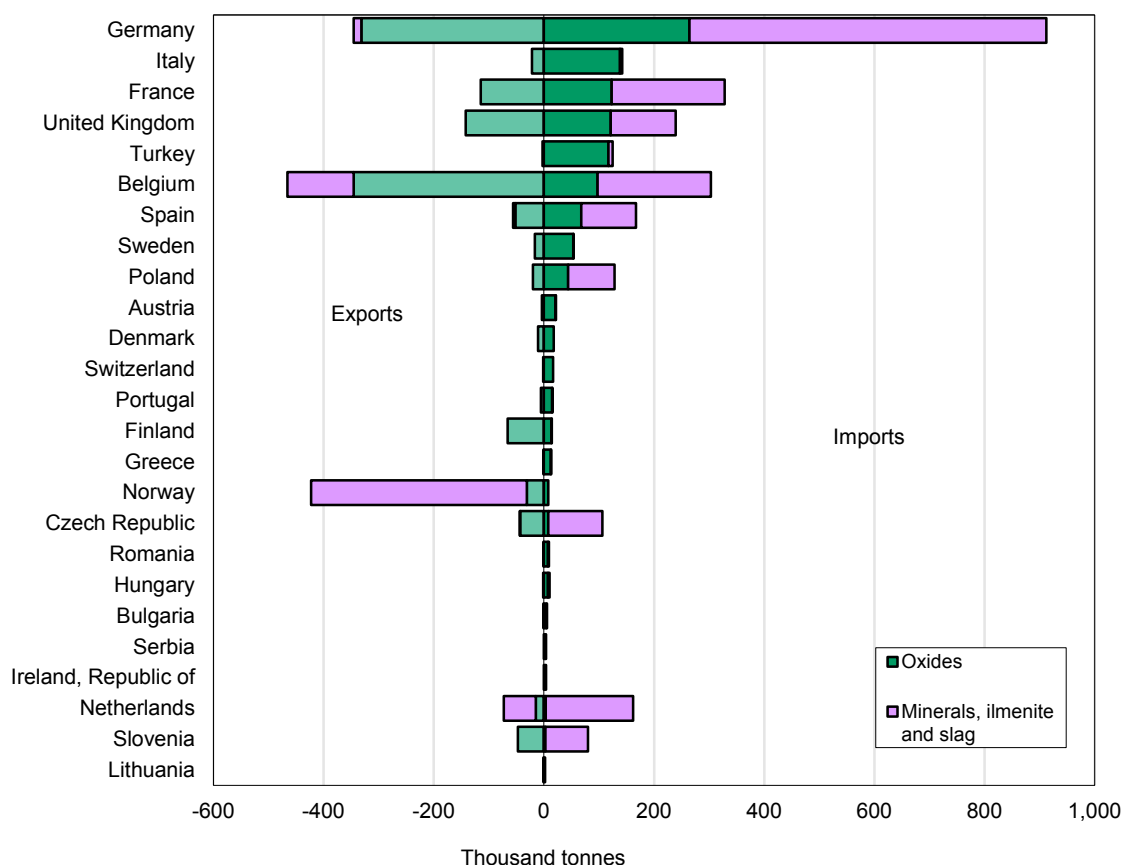
Note(s)

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

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

(b) Includes ilmenite

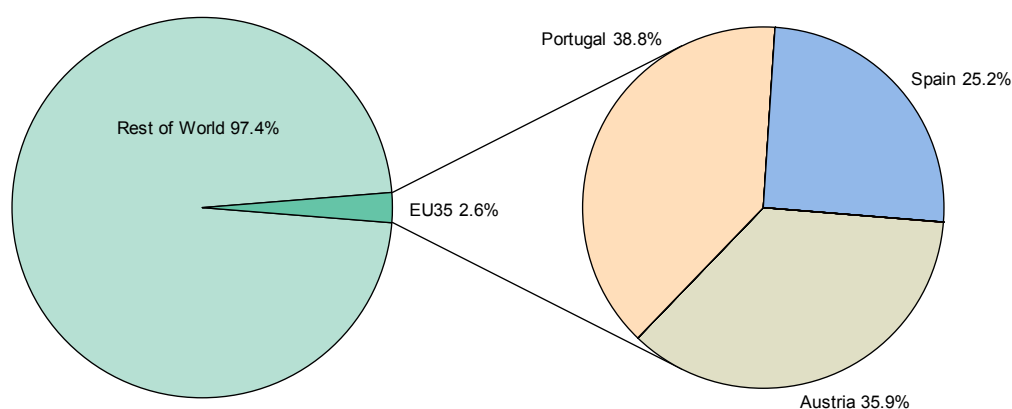
Titanium - EU35 trade in 2012



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 2012, with 83 per cent of the total world output. The second largest was Russia (six per cent), followed by Canada (three per cent), and Bolivia (two per cent).

EU35 Mine production of tungsten 2012



Mine production of tungsten

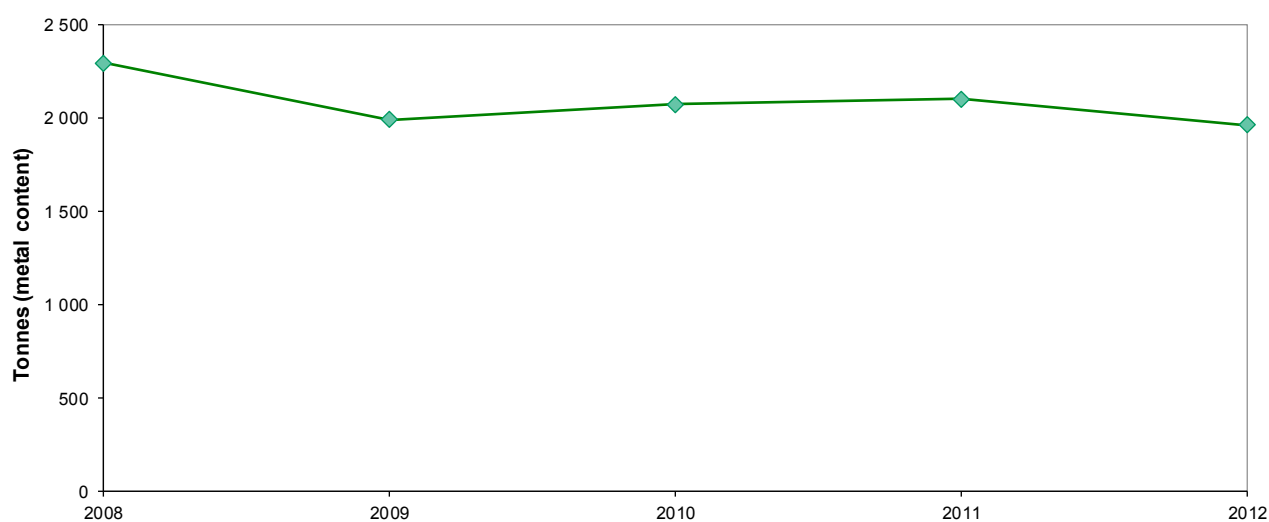
tonnes (metal content)

Country	2008	2009	2010	2011	2012
Austria	1 122	887	975	861	706
Portugal (a)	981	823	799	818	763
Spain	194	284	303	425	496
EU35 Total	2 300	2 000	2 100	2 100	2 000

Note(s)

(a) Wolframite and scheelite

EU35 Mine production of tungsten 2008 - 12



Exports of tungsten

Country	2008	2009	2010	2011	2012
Austria					
Metal (a)	* 1 600	* 4 300	* 3 000	* 2 400	* 2 200
Belgium					
Ores and concentrates	62	120	27	406	544
Metal	405	422	723	368	657
Carbide	36	32	92	92	77
Bulgaria					
Metal	20	2	80	11	12
Czech Republic					
Metal	86	30	211	611	1 011
Carbide	592	307	803	903	863
Denmark					
Metal	121	91	113	118	32
Estonia					
Metal	—	—	1	...	61
Finland					
Metal	360	291	450	588	480
France					
Metal	676	398	473	589	962
Carbide	354	261	288	272	353
Germany					
Ores and concentrates	206	196	164	976	524
Metal	4 687	2 655	3 119	3 064	3 618
Hungary					
Metal	39	36	54	53	99
Italy					
Metal	973	670	925	1 091	1 060
Luxembourg					
Metal	0	2	203	47	—
Netherlands					
Ores and concentrates	29	25	104	0	0
Metal	582	133	406	255	119
Poland					
Metal	143	136	154	179	89
Portugal					
Ores and concentrates	1 705	1 407	1 289	1 324	1 325
Metal	17	20	6	131	51
Spain					
Ores and concentrates	286	457	400	981	1 074
Metal	223	156	315	880	453
Sweden					
Ores and concentrates	75	96	—	21	149
Metal	328	431	289	218	122
Carbide	436	253	401	186	109
Switzerland					
Metal	400	239	476	398	400
Turkey					
Metal	99	213	139	237	210
United Kingdom					
Ores and concentrates	21	3	29	35	102
Metal	1 625	1 541	1 650	2 135	1 674
Carbide	51	80	41	597	463

Note(s)

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

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

Imports of tungsten

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Metal	435	369	632	1 471	1 017
Carbide	...	568	1 268	1 241	1 076
Belgium					
Metal	401	326	402	321	202
Bulgaria					
Metal	9	26	86	16	30
Czech Republic					
Ores and concentrates	...	...	...	314	799
Metal	206	4 184	677	367	968
Carbide	...	...	150	219	88
Denmark					
Metal	110	105	51	41	32
Finland					
Metal	296	205	403	567	456
France					
Ores and concentrates	353	1	2	4	14 619
Metal	898	547	867	1 027	619
Carbide	859	311	359	583	551
Germany					
Ores and concentrates	967	821	1 029	843	381
Metal	5 184	3 313	7 168	8 094	6 946
Carbide	2 526	1 333	2 544	3 105	2 478
Hungary					
Metal	54	31	54	67	56
Ireland, Republic of					
Metal	215	68	91	76	121
Carbide	158	108	68	186	116
Italy					
Metal	255	147	496	552	656
Carbide	350	103	279	440	240
Lithuania					
Metal	1	—	1	156	52
Luxembourg					
Carbide	983	465	7	2	—
Netherlands					
Ores and concentrates	457	(a)* 900	(a)* 1 200	(a)* 3 100	(a)* 3 400
Metal	329	71	206	209	211
Carbide	94	42	18	15	23
Poland					
Metal	103	87	124	96	69
Portugal					
Metal	251	193	277	206	151
Carbide	169	46	110	106	79
Romania					
Metal	1 122	22	79	50	63
Slovakia					
Metal	55	43	366	5 398	5 331
Spain					
Ores and concentrates	11	147	44	15	17
Metal	731	681	426	216	506
Carbide	31	13	25	51	35
Sweden					
Metal	588	175	179	302	538
Carbide	904	233	1 308	2 050	852
Switzerland					
Metal	272	105	143	226	234
Turkey					
Metal	34	34	74	70	71

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Ores and concentrates	11	35	2	25	3
Metal	1 865	1 477	1 676	1 999	1 888
Carbide	1 023	614	1 111	3 622	1 245

Note(s)

(1) Significant amounts of tungsten are traded in the forms of ammonium paratungstate (APT) and carbide. Though statistics are included where available, most countries do not separately distinguish these forms in their trade accounts

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

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

Vanadium

- Vanadium is a soft, ductile, metallic element that is very corrosion resistant. The chief use is as an additive in alloy steels where it imparts strength and corrosion resistance. Other uses are in titanium alloys and as a catalyst.
- Mine production was confined to five countries in 2012: China (52 per cent of the total world output), South Africa (26 per cent), Russia (20 per cent), Kazakhstan and USA. In the USA vanadium is a significant by-product from the refining of heavy crude oils.

Exports of vanadium

tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Ores and concentrates	327	131	...	...	...
Pentoxide	8	47	80	...	65
Germany					
Pentoxide	1 173	...	...	...	...
Italy					
Ores and concentrates	217	385	...	...	...
Lithuania					
Ores and concentrates	358	...	...	...	...
Netherlands					
Pentoxide	45	102	122	186	328
Spain					
Pentoxide	4	26	22	774	26
Turkey					
Pentoxide	200	119	—	24	—
United Kingdom					
Pentoxide	589	487	694	6	—
Metal	2	18	23	...	...

Note(s)

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

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

Imports of vanadium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Vanadiferous residues	* 36 000	* 35 000	* 46 000	* 46 000	* 46 000
Ores and concentrates	460	...	...	...	...
Belgium					
Ores and concentrates	200	123	...	...	...
Pentoxide	38	94	123	95	364
Czech Republic					
Pentoxide	5 135	2 702	5 255	7 004	8 672
France					
Pentoxide	674	371	574	605	429
Germany					
Ores and concentrates	60	...	...	...	...
Pentoxide	879	(a)* 400	(a)* 1 000	(a)* 700	(a)* 1 300
Greece					
Ores and concentrates	...	80	...	...	...
Italy					
Ores and concentrates	255	18	...	...	...
Pentoxide	173	45	53	45	117
Netherlands					
Pentoxide	227	27	204	888	558
Spain					
Ores and concentrates	9	22	...	...	...
Pentoxide	43	50	115	52	56

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
United Kingdom					
Pentoxide	344	84	5	17	21
Metal	314	112	197	376	261

Note(s)

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

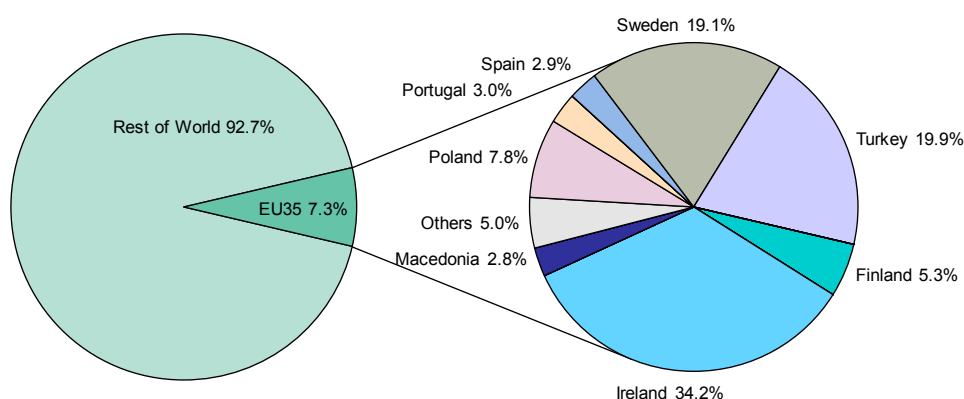
(2) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

Zinc

- Zinc is a metal that is brittle at ordinary temperatures but malleable at temperatures above 100°C. It is corrosion resistant and this property is exploited in its chief use as a steel coating (galvanising). Its other main uses are as zinc die-castings and alloyed with copper to make brass, which is widely used in the electrical, engineering and construction industries.
- China was the world's largest producer of mined zinc in 2012, with 36 per cent of the total world output. The second largest was Australia (11 per cent), followed by Peru (nine per cent), India (six per cent) and USA (five per cent).
- China was also the world's largest producer of refined zinc in 2012, with 38 per cent of the total world output. The second largest was South Korea (seven per cent), followed by India (six per cent), Canada and Japan (five per cent each).

EU35 Mine production of zinc 2012



Mine production of zinc

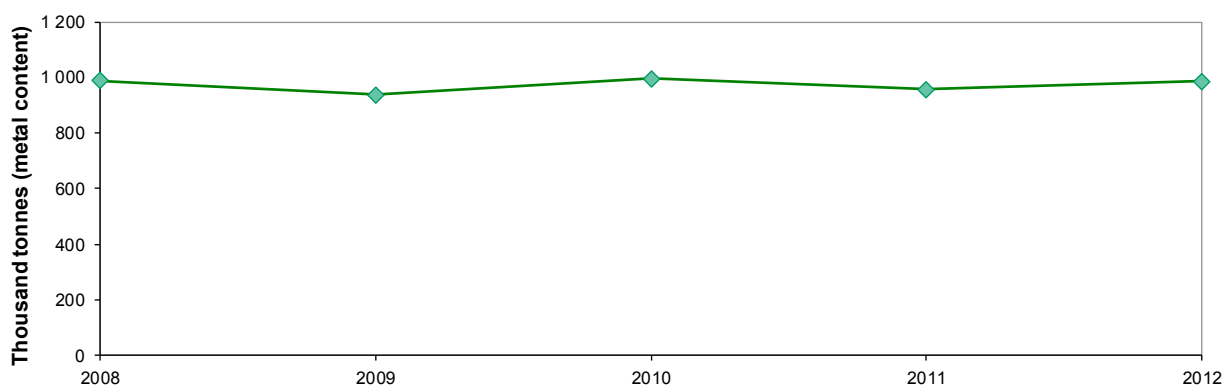
tonnes (metal content)

Country	2008	2009	2010	2011	2012
Bulgaria (a)	12 819	9 339	9 904	10 977	12 116
Finland	27 800	30 233	55 562	64 115	52 200
Greece	24 200	17 800	18 400	21 200	20 800
Ireland, Republic of	398 200	385 700	342 500	344 000	337 000
Macedonia	38 737	38 648	32 872	28 132	28 037
Poland	132 400	115 500	107 700	87 200	76 700
Portugal	37 900	501	6 422	4 227	30 006
Romania	14	* 3 000	* 7 700	* 9 000	* 8 400
Serbia	2 400	2 700	2 600	3 100	7 500
Spain	—	5 900	17 323	33 197	28 634
Sweden	187 987	192 502	198 687	194 021	188 325
Turkey	126 800	136 300	196 400	158 300	195 793
EU35 Total	989 000	938 000	996 000	957 000	986 000

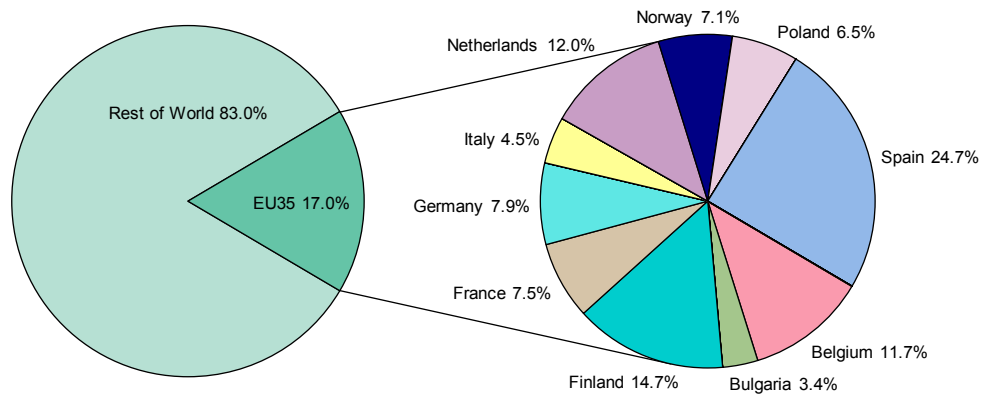
Note(s)

(a) Metal content of ore

EU35 Mine production of zinc 2008 - 12



EU35 Production of slab zinc 2012

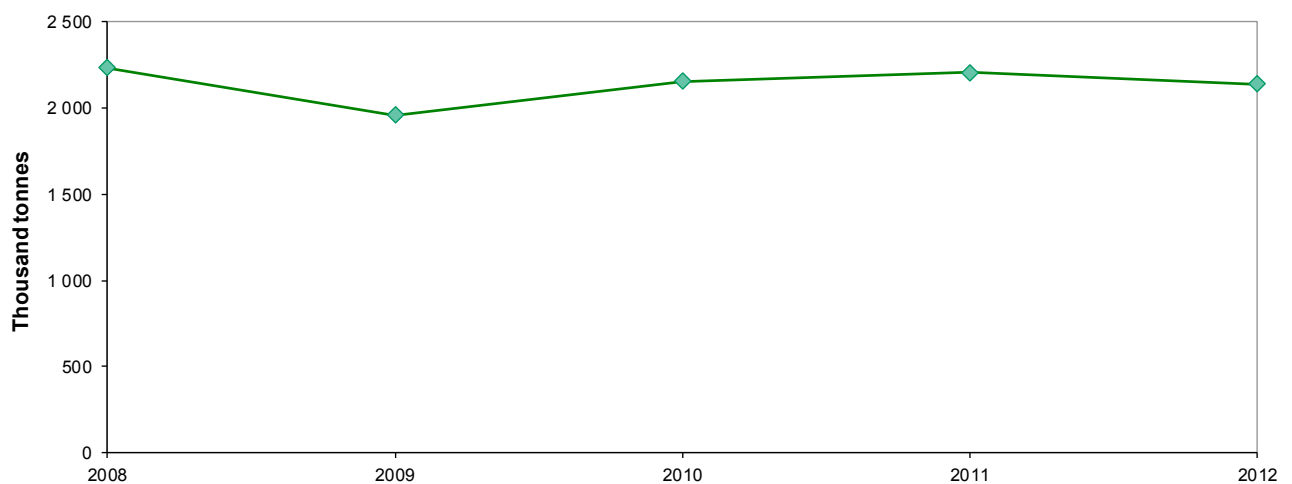


Production of slab zinc

tonnes

Country	2008	2009	2010	2011	2012
Belgium	251 000	137 000	260 000	282 000	250 000
Bulgaria	101 700	92 700	93 800	88 400	73 100
Finland	297 722	295 049	307 144	307 352	314 742
France	118 000	161 000	162 000	164 000	161 000
Germany	292 284	* 153 000	165 000	170 000	169 000
Italy	107 100	103 400	104 700	110 200	97 200
Netherlands	250 000	224 000	264 000	261 000	257 000
Norway	145 469	138 973	148 862	153 200	152 647
Poland	142 600	139 100	135 000	144 100	138 300
Romania	61 978	1 000	—	—	—
Spain	466 000	515 000	517 100	527 100	528 300
EU35 Total	2 234 000	1 960 000	2 158 000	2 207 000	2 141 000

EU35 Production of slab zinc 2008 - 12



Exports of zinc

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought (a)	13 794	5 703	8 532	9 776	6 410
Scrap	8 176	6 052	5 757	8 583	8 591
Belgium					
Ores and concentrates	733 794	785 125	749 582	725 335	859 086
Unwrought	8 359	13 590	155 654	296 197	277 418
Unwrought alloys	...	...	...	154 258	140 766
Scrap	15 585	16 644	14 540	11 652	15 063
Bulgaria					
Ores and concentrates	7 982	2 076	22	1 607	—
Unwrought (a)	96 678	87 008	81 332	71 894	57 768
Scrap	1 293	2 226	1 949	2 021	2 185
Croatia					
Scrap	700	708	518	676	764
Czech Republic					
Unwrought (a)	17 258	19 982	5 148	5 147	7 407
Scrap	2 705	2 716	4 798	4 189	4 432
Denmark					
Scrap	2 028	2 622	2 563	2 468	2 617
Estonia					
Scrap	2 860	1 065	509	637	410
Finland					
Ores and concentrates	1 238	1 426	22 479	50 656	39 555
Unwrought (a)	257 411	268 893	266 738	265 686	271 313
Scrap	964	1 012	1 369	1 215	1 066
France					
Ores and concentrates	78 398	39 350	49 652	54 609	62 111
Unwrought	31 601	64 773	79 727	105 934	80 747
Unwrought alloys	5 073	9 362	1 851	2 549	1 938
Scrap	43 770	45 986	51 755	42 736	42 231
Germany					
Ores and concentrates	1 835	888	1 674	73 980	39 533
Unwrought	70 724	63 165	52 483	55 518	59 913
Unwrought alloys	28 835	24 163	31 857	31 170	29 775
Scrap	51 801	68 648	74 208	75 168	73 200
Greece					
Ores and concentrates	43 003	21 311	14 660	36 016	51 007
Hungary					
Scrap	1 902	2 978	2 821	2 314	1 897
Ireland, Republic of					
Ores and concentrates	404 303	594 268	588 143	660 259	647 444
Italy					
Ores and concentrates	99 121	48 051	98 211	71 471	84 569
Unwrought	7 967	5 258	11 071	16 570	14 737
Unwrought alloys	2 857	3 491	6 377	9 385	10 029
Scrap	8 603	12 334	16 427	13 006	7 151
Latvia					
Scrap	443	975	587	459	779
Luxembourg					
Scrap	315	423	1 134	739	698
Macedonia					
Ores and concentrates	...	69 509	60 369	51 545	51 154
Scrap	576	479	739	313	103
Montenegro					
Ores and concentrates	...	...	499	6 579	9 120
Netherlands					
Ores and concentrates	0	425	12 182	132 344	90 253
Unwrought	244 789	133 994	166 281	122 532	213 479
Unwrought alloys	23 932	22 041	42 182	52 382	39 626
Scrap	19 815	* 11 900	32 543	25 629	28 277
Norway					
Unwrought	130 397	128 416	122 649	119 770	115 789
Unwrought alloys	9 227	6 107	19 889	29 094	28 188

Exports continued

tonnes

Country	2008	2009	2010	2011	2012
Poland					
Ores and concentrates	58 035	45 877	4 213	0	0
Unwrought	83 571	84 833	96 142	105 552	105 929
Unwrought alloys	3 606	4 699	6 280	6 939	6 541
Scrap	430	1 617	902	960	533
Portugal					
Ores and concentrates	75 414	371	7 438	2 201	67 881
Unwrought (a)	1 307	849	151	734	1 723
Scrap	2 910	1 646	940	755	5 736
Romania					
Ores and concentrates	503	24 528	15 375	17 592	16 745
Unwrought (a)	59 395	8 004	657	776	454
Scrap	442	1 615	711	597	672
Serbia					
Ores and concentrates	21 140	10 699	14 921	23 247	22 559
Scrap	63	330	120	67	907
Slovakia					
Unwrought	14 600	12 871	7 903	2 836	3 421
Unwrought alloys	10 412	11 365	13 075	7 001	10 336
Slovenia					
Unwrought (a)	1 937	1 469	2 725	918	367
Scrap	975	517	933	832	1 104
Spain					
Ores and concentrates	121 688	40 118	82 009	122 429	133 939
Unwrought	191 897	216 633	318 527	351 354	359 605
Unwrought alloys	92 781	62 544	91 054	35 318	38 229
Scrap	6 210	26 675	37 362	15 625	8 283
Sweden					
Ores and concentrates	389 473	395 616	362 085	374 501	343 725
Scrap	2 898	1 840	2 900	3 257	3 166
Switzerland					
Unwrought (a)	1 078	524	415	258	117
Scrap	2 445	2 574	2 582	2 846	2 284
Turkey					
Ores and concentrates	253 573	272 559	392 725	316 714	412 744
Unwrought (a)	498	451	666	1 704	2 130
Scrap	468	1 929	1 536	2 997	2 960
United Kingdom					
Ores and concentrates	246	11 418	8 405	9 714	5 561
Unwrought	3 883	3 600	3 580	2 724	1 823
Unwrought alloys	28 408	13 578	14 561	12 737	13 580
Scrap	5 699	6 030	14 903	12 545	9 897

Note(s)

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

(a) Including alloys

Imports of zinc

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Unwrought	61 877	37 864	37 560	47 394	51 634
Unwrought alloys	33 911	27 886	34 411	38 759	34 920
Scrap	210	596	298	4 827	9 832
Belgium					
Ores and concentrates	(a)* 805 000	(a)* 444 500	1 129 207	1 182 797	1 194 208
Unwrought	205 745	237 741	189 980	280 492	267 917
Unwrought alloys	8 075	13 299	10 613	11 844	30 383
Scrap	40 657	61 433	68 233	66 665	57 765
Bulgaria					
Ores and concentrates	146 655	147 579	167 107	166 553	132 500
Unwrought (b)	5 095	2 480	1 761	2 765	6 878

Zinc

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Croatia					
Unwrought (b)	4 656	3 149	3 029	2 886	2 847
Czech Republic					
Unwrought	36 733	24 660	15 121	17 137	19 064
Unwrought alloys	11 344	7 155	11 653	10 590	11 947
Scrap	2 792	2 434	900	909	583
Denmark					
Unwrought	12 591	6 063	4 427	6 023	6 877
Unwrought alloys	910	771	1 310	763	923
Estonia					
Unwrought (b)	7 676	1 595	5 978	8 887	4 987
Finland					
Ores and concentrates	582 049	532 036	559 918	547 265	558 963
Unwrought (b)	4 242	3 705	4 374	1 471	1 146
France					
Ores and concentrates	238 502	241 976	222 580	234 060	288 110
Unwrought	164 172	128 674	131 993	151 988	126 771
Unwrought alloys	45 480	27 000	34 205	34 022	32 075
Scrap	3 694	4 604	3 003	3 853	23 591
Germany					
Ores and concentrates	383 789	271 554	285 331	344 106	324 954
Unwrought	305 075	285 965	380 807	398 086	365 788
Unwrought alloys	89 738	36 350	57 563	69 972	64 642
Scrap	17 395	16 782	23 694	25 853	25 536
Greece					
Unwrought (b)	28 996	25 422	22 534	11 358	11 341
Hungary					
Unwrought (b)	17 011	9 862	11 767	12 818	12 856
Ireland, Republic of					
Ores and concentrates	76 922	15	8	8	6
Unwrought (b)	5 185	2 210	2 104	2 358	2 058
Scrap	1 268	—	—	—	—
Italy					
Ores and concentrates	161 838	155 028	184 192	153 982	186 715
Unwrought	179 691	118 424	245 254	244 557	164 716
Unwrought alloys	81 350	22 194	34 595	39 554	31 434
Scrap	15 369	15 315	27 740	36 491	36 134
Latvia					
Unwrought (b)	1 256	830	383	249	662
Lithuania					
Unwrought (b)	563	190	460	1 049	1 063
Luxembourg					
Unwrought	5 831	6 049	9 232	6 819	7 461
Unwrought alloys	537	237	475	533	550
Macedonia					
Unwrought (b)	4 954	4 147	5 213	4 920	4 611
Netherlands					
Ores and concentrates	430 617	320 568	391 050	355 644	445 698
Unwrought	155 003	104 253	254 953	227 277	221 680
Unwrought alloys	24 062	15 791	19 827	13 356	8 029
Scrap	6 270	8 274	12 653	9 283	6 759
Norway					
Ores and concentrates	243 213	209 649	228 828	250 537	260 442
Unwrought (b)	3 286	1 612	1 376	1 013	2 313
Poland					
Ores and concentrates	150 283	130 258	115 561	97 225	178 780
Unwrought	26 811	18 498	53 983	49 569	47 314
Unwrought alloys	11 906	8 922	7 610	10 045	11 622
Scrap	6 378	3 907	7 188	10 421	11 060
Portugal					
Unwrought	19 551	12 830	15 757	13 299	11 135
Unwrought alloys	4 617	4 018	4 522	3 967	4 601
Romania					
Ores and concentrates	161 527	12	3	—	24
Unwrought (b)	7 394	10 523	16 664	17 006	16 883
Scrap	55	—	246	439	1 628

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Serbia					
Unwrought	8 209	4 178	4 846	5 275	5 344
Slovakia					
Unwrought (b)	41 003	28 863	37 266	34 536	27 313
Slovenia					
Unwrought	14 881	16 766	15 314	14 495	12 916
Unwrought alloys	8 938	6 180	5 850	7 374	6 623
Spain					
Ores and concentrates	1 114 634	909 078	1 003 388	977 695	1 069 671
Unwrought	26 779	16 091	7 583	16 841	6 091
Unwrought alloys	15 000	9 230	15 627	11 050	7 235
Scrap	7 396	3 127	10 935	23 205	9 620
Sweden					
Unwrought	29 211	29 750	37 524	30 598	24 686
Unwrought alloys	12 059	2 691	5 905	6 282	5 907
Scrap	1 696	1 208	226	336	44
Switzerland					
Unwrought	13 715	9 431	15 521	12 747	11 702
Unwrought alloys	2 471	1 549	2 276	2 158	1 930
Turkey					
Unwrought	147 215	137 765	182 598	201 409	224 683
Unwrought alloys	4 091	1 714	2 876	6 504	5 261
Scrap	1 381	181	161	44	95
United Kingdom					
Unwrought	119 911	84 594	97 066	85 516	77 847
Unwrought alloys	8 524	1 869	2 973	9 306	8 917
Scrap	103	344	447	339	412

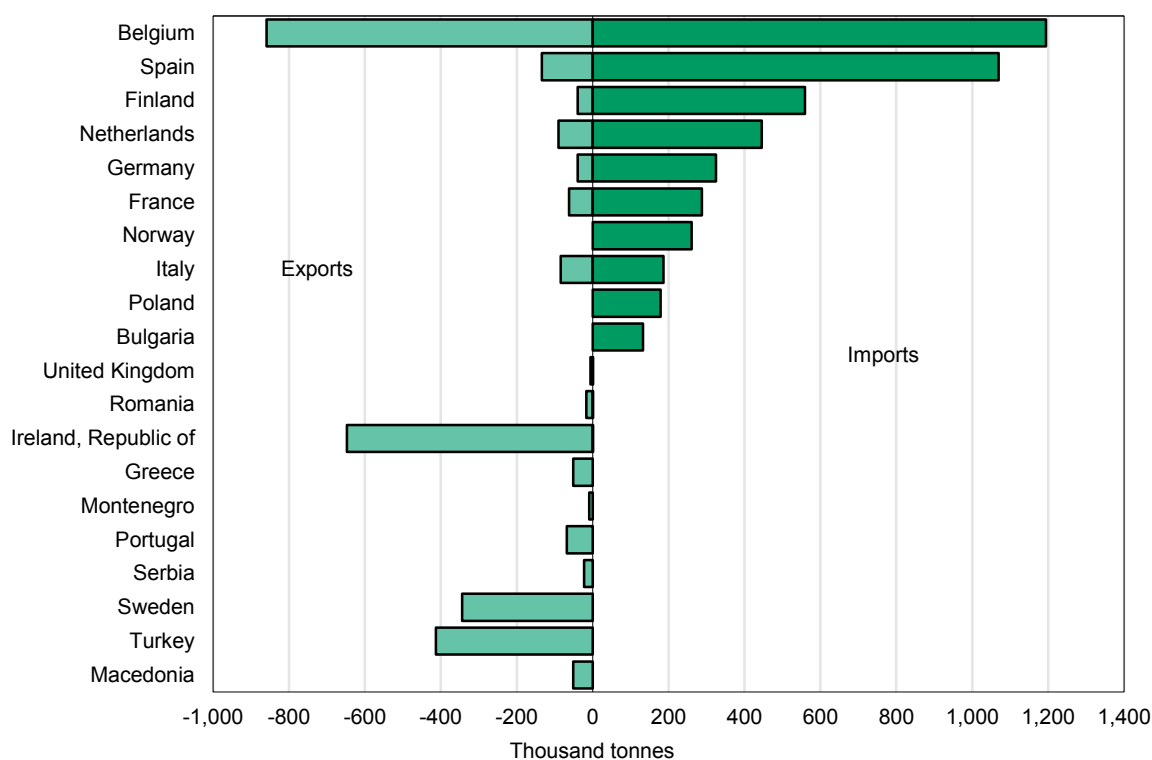
Note(s)

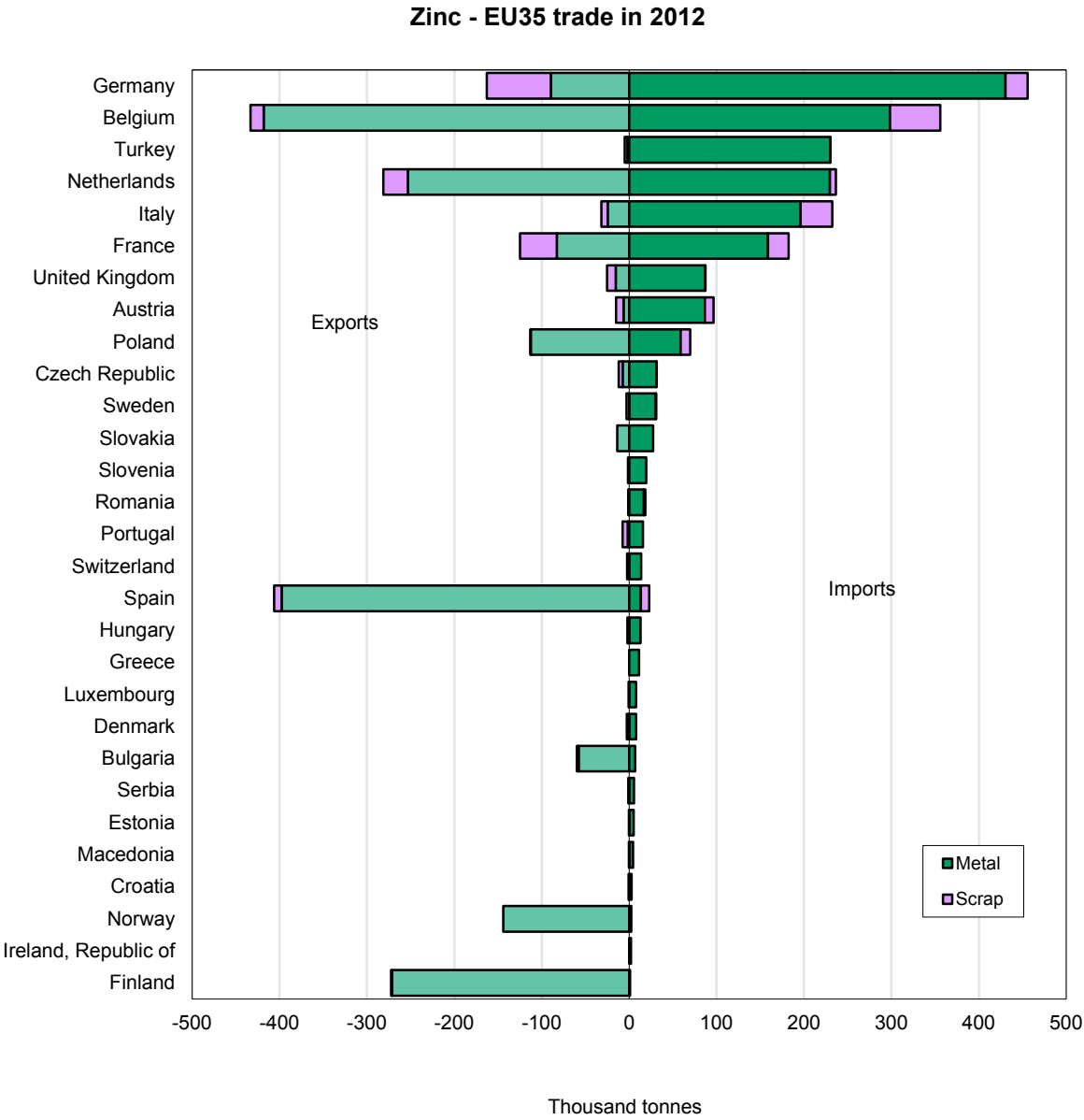
(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc.

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

(b) Including alloys

Zinc ore - EU35 trade in 2012





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 2012, with 41 per cent of the total world output. The second largest was South Africa (26 per cent), followed by USA (eight per cent), Indonesia (seven per cent) and Madagascar (five per cent).

Exports of zirconium

tonnes

Country	2008	2009	2010	2011	2012
Belgium					
Concentrates	16 056	28 907	17 417	12 021	13 246
Metal	157	125	187	272	186
France					
Concentrates	1 440	1 243	2 044	4 973	1 708
Germany					
Concentrates (a)	* 12 000	* 7 300	* 10 800	* 10 800	* 7 500
Metal	625	386	384	792	735
Italy					
Concentrates	41 296	33 219	41 784	44 252	11 012
Metal	233	274	136	34	137
Netherlands					
Concentrates	8 223	4 639	11 091	13 351	9 959
Spain					
Concentrates	14 151	13 581	28 166	29 952	14 360
Metal	525	746	51	3	64
Sweden					
Metal	144	118	90	137	95
United Kingdom					
Concentrates	716	742	1 405	1 661	818
Metal	61	19	90	102	213

Note(s)

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

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

Imports of zirconium

tonnes

Country	2008	2009	2010	2011	2012
Austria					
Concentrates	2 163	1 298	1 680	1 994	1 344
Belgium					
Concentrates	17 337	28 897	17 469	12 317	12 682
Metal	433	213	370	480	309
Bulgaria					
Concentrates	1 081	573	781	609	95
Czech Republic					
Concentrates	751	268	303	955	595
Metal	101	45	37	34	24
France					
Concentrates	55 030	25 087	25 310	35 922	25 784
Metal	456	553	326	687	436
Germany					
Concentrates (a)	* 27 047	* 24 985	* 26 967	* 29 153	* 20 059
Metal	791	664	798	676	956
Hungary					
Concentrates	2 439	1 265	2 455	1 765	1 965

Zirconium

Imports continued

tonnes

Country	2008	2009	2010	2011	2012
Ireland, Republic of					
Concentrates	3 976	1 323	16 162	886	146
Italy					
Concentrates	129 999	53 845	98 214	81 360	40 897
Metal	130	226	144	184	135
Netherlands					
Concentrates	24 694	11 027	23 981	43 560	17 070
Metal	240	* 70	188	297	211
Poland					
Concentrates	833	340	648	488	670
Portugal					
Concentrates	8 162	5 620	5 475	4 048	2 386
Romania					
Metal	136	301	35	41	1
Slovenia					
Concentrates	548	227	330	273	176
Spain					
Concentrates	152 604	95 103	149 442	143 493	63 341
Metal	136	83	132	97	124
Sweden					
Concentrates	832	248	419	368	123
Metal	185	218	220	120	146
Turkey					
Concentrates	4 844	2 918	4 823	4 770	3 268
United Kingdom					
Concentrates	13 092	6 386	8 450	14 709	8 928
Metal	521	203	411	616	482

Note(s)

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

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



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 2012, with 45 per cent of the total world output. The second largest was USA (22 per cent), followed by Argentina (ten per cent), Chile (eight per cent) and Russia (seven per cent).

Production of borates

tonnes

Country	2008	2009	2010	2011	2012
Turkey	2 139 224	1 687 102	1 910 000	2 711 831	* 2 700 000

Nepheline syenite

- Nepheline syenite is an igneous rock composed chiefly of feldspar and nepheline (one of a family of minerals called feldspathoids). The chief uses are similar to those for feldspar, i.e. in the manufacture of glass, in ceramics and as a filler.
- Economic concentrations form in rare geological environments and only a few countries are known to produce nepheline syenite. Russia was the largest known producer in 2012, followed by Canada and Norway.

Production of nepheline syenite

tonnes

Country	2008	2009	2010	2011	2012
Norway	346 000	270 000	327 000	330 000	320 000

Perlite

- Perlite is a silicate mineral that results from the alteration of natural glass with the chemical composition of granite. Upon heating the mineral swells and 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.
- China was the world's largest producer in 2012, with an estimated 19 per cent of the total world output. The second largest was Greece (also with 19 per cent), followed by Turkey (18 per cent), Iran (15 per cent) and USA (12 per cent).

Production of perlite

tonnes

Country	2008	2009	2010	2011	2012
Bulgaria	7 400	14 800	—	—	3 700
Greece	1 000 000	862 935	760 000	720 000	680 000
Hungary	132 000	82 058	70 990	70 900	* 70 000
Italy	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Slovakia	25 000	25 000	23 000	23 000	24 000
Turkey	551 266	522 832	737 077	642 657	* 650 000

Selenium metal

- Selenium is a light, weakly toxic, metalloid. Selenium has a wide range of uses; the largest is in glass-making where it acts as a decolouriser, and it is also used in ceramics, pigments, electronics, animal feed supplement and in base-metal alloys. Its former major use in photocopiers has declined as it has been replaced by other materials.
- Selenium is most commonly produced as a by-product of copper refining. Japan was the world's largest producer in 2012, with 36 per cent of the total world output. The second largest was Germany (11 per cent), followed by Belgium (nine per cent), Russia (eight per cent), Canada and Kazakhstan (with six per cent each).

Production of selenium metal

tonnes

Country	2008	2009	2010	2011	2012
Belgium	* 200	* 200	* 200	* 200	* 200
Finland	65	59	73	86	93
Germany	* 250	* 230	* 250	* 250	* 250
Poland	82	80	79	85	90
Sweden	139	129	72	* 70	* 70

Strontium minerals

- Strontium is a soft metallic element. The most common strontium mineral is celestite (strontium sulphate). This is frequently converted into strontium carbonate before marketing. Strontium compounds are also used in pyrotechnics and flares, ceramic ferrite magnets, pigments and fillers, and in glass (particularly the glass for television screens).
- China was the world's largest producer in 2012, with 80 per cent of the total world output. The second largest was Spain (ten per cent), followed by Mexico and Iran (five per cent each).

Production of strontium minerals

tonnes

Country	2008	2009	2010	2011	2012
Spain	138 590	57 466	83 035	97 102	84 818
Turkey	* 1 600	—	—	—	—

Note(s)

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

Uranium

- Uranium is a dense metallic element. It is chiefly used as the fuel source for nuclear power stations. Uranium ore is milled and processed into 'yellowcake' (a uranium oxide), which is the chief form in international trade. Yellowcake is converted to uranium hexafluoride, which is then enriched to enable it to be used as a fuel.
- Kazakhstan was the world's largest producer in 2012, with 36 per cent of the total world output. The second largest was Canada (16 per cent), followed by Australia (12 per cent), Niger (eight per cent) and Namibia (seven per cent).

Mine production of uranium

tonnes (metal content)

Country	2008	2009	2010	2011	2012
Czech Republic	290	286	259	252	222
Germany	—	—	* 8	52	50
Romania	* 77	* 75	* 77	* 77	* 90

Note(s)

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

Wollastonite

- Wollastonite (calcium metasilicate) is a commercially important mineral because of its bladed (acicular) crystals. It is used as filler in plastics, ceramics, paint and friction products and as an asbestos substitute.
- China was the world's largest producer in 2012, with 50 per cent of the total world output. The second largest was India (25 per cent), followed by USA (12 per cent), Mexico (nine per cent), Finland and Spain (with two per cent each).

Production of wollastonite

tonnes

Country	2008	2009	2010	2011	2012
Finland	15 600	9 200	12 100	11 500	* 11 500
Spain	10 100	7 000	6 000	7 417	10 918

Note(s)

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



Price £30

