

# European Mineral Statistics



2010–14



**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL



BRITISH GEOLOGICAL SURVEY

## European Mineral Statistics 2010–14

A product of the World Mineral Statistics database

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# Commentary

## 1. Introduction

Europe's relatively restricted land mass has a remarkable variety of geological terranes. It includes ancient crystalline 'shields' and massifs, complex younger fold-belts penetrated by igneous intrusions, deep sedimentary basins containing coal, petroleum and other minerals, and landscapes profoundly modified by a recent ice age. As a consequence Europe has a rich endowment of all the major groups of minerals. In the nineteenth century the continent's burgeoning industrial economies were built on its resources of metals and coal. The productive capacity of those resources was, with some exceptions, largely outgrown in the twentieth century but Europe continues to obtain a high proportion of its needs for industrial and construction minerals from within its own borders. In addition, a recent bonanza has been the discovery and exploitation of the offshore resources of petroleum and natural gas beneath the North Sea and other areas of the continental shelf.

During the industrial revolution of the eighteenth and nineteenth centuries the interest of sovereign states in their own economic and demographic performance led to the development of statism, that is, the direction and control of their internal affairs to a much greater degree than before. From statism came the concept of statistics – the numbers collected and compiled as the basis for such action by the state. Among many other things, almost all European countries compile annual statistics of national mineral production and trade and these form the basis of this European compilation<sup>1</sup>.

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 –

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<sup>1</sup> 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 Albania, Iceland, Macedonia, Montenegro, Serbia and Turkey; this group of 36 countries is for convenience referred to as 'EU36'.

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 <sup>2</sup>	<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

<sup>2</sup> 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, fluor spar, 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 materials<sup>3</sup> 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 minerals<sup>4</sup> 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 are given in Table 2.

**Table 2** EU36 production of selected industrial minerals as world percentages

<i>Industrial mineral</i>	<i>% of world</i>	<i>EU36 countries with &gt;2% of world output in 2014</i>
Feldspar	59.5	Turkey (30.1%), Italy, Spain, France
Kaolin	32.6	Germany (16.5%), UK, Turkey, Czech Republic
Salt	19.5	Germany (3.9%), Netherlands, France
Diatomite	19.5	Denmark (5.2%), France, Turkey, Spain, Germany
Bentonite	17.9	Greece (6.2%), Turkey, Germany
Gypsum	20.3	Turkey (5.5%), Italy, Spain
Talc	13.9	Finland (4.6%), France
Potash	12.0	Germany (8.0%), Spain
Magnesite	11.6	Turkey (5.5%)
Mica	11.1	France (5.9%), Finland
Barytes	5.4	Turkey (3.7%)
Fluorspar	5.4	Spain (2.2%)

## 4. Metals

Until the middle of the nineteenth century the demands of industry in Europe were met by indigenous metal mines but thereafter it became clear that the resources of other continents would become an 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

<sup>3</sup>In 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.

<sup>4</sup>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 EU36 position of mine production of selected metals in 2014 is shown in Table 3.

**Table 3** EU36 mine production of selected metals as world percentages.

<i>Metal</i>	<i>% world</i>	<i>EU36 countries with &gt;1% of world output in 2014</i>
Chromium	19.4	Turkey (13.7%), Finland, Albania
Silver	8.1	Poland (5.0%), Sweden
Zinc	7.3	Ireland (2.1%), Sweden, Turkey
Titanium	6.6	Norway (6.6%)
Lead	6.4	Poland (1.5%), Sweden, Turkey
Copper	5.5	Poland (2.3%)
Tungsten	2.9	Spain (1.2%), Austria
Nickel	2.8	Greece (1.0%)
Gold	1.9	Turkey (1.0%)
Iron	1.7	Sweden (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 EU36 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 EU36 position with regard to production of energy minerals in 2014 is shown in Table 4.

**Table 4** EU36 production of energy minerals as world percentages.

<i>Mineral</i>	<i>% world</i>	<i>EU36 countries with &gt; 1% of world output 2014</i>
Coal	7.7	Germany (2.3%), Poland, Turkey
Natural gas	7.3	Norway (3.0%), Netherlands, United Kingdom
Petroleum	4.0	Norway (2.2%)

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## Explanatory notes

The statistics in this publication are from the World Mineral Statistics database.

### Coverage

*European Mineral Statistics* covers the majority of economically important, and internationally traded, mineral commodities. For each commodity constant efforts are made to ensure that as many producing and trading countries as possible are reported and that trade data cover all major traded forms. For some commodities, where statistics on production and trade are not publicly available, estimates are made.

### Production

*Metals* Mine production of many metals is expressed in terms of metal content. This is clearly indicated adjacent to the commodity description. Unless otherwise specified, metal production statistics relate to metal recovered from both domestic and imported materials, whether primary or secondary, but exclude remelted material.

## **Trade**

Although every effort has been made to provide comprehensive coverage of trade statistics the resulting trade compilations depend on the nature of the data available. The fact that a country is not shown as trading in a particular commodity does not necessarily imply that there is no trade in that item. The commodity may not be separately identified in the available trade statistics or may not be traded in significant quantities.

Where an estimate for a trade statistic has been reconstructed from the imports/exports of other countries, the resulting figure may be conservative, as complete coverage of world trade is seldom available. Export statistics may include re-exports.

Tables showing trade in the following metals covered by Harmonised System Chapter 81 include under the term 'metal', unwrought and wrought forms, powder, alloys, waste and scrap, unless these are separately shown: antimony, bismuth, cadmium, chromium, cobalt, manganese, molybdenum, tantalum–niobium, titanium, tungsten, vanadium and zirconium. Trade tables of other metals include only unwrought forms under the term 'metal'.

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

Specialist commodity organisations which have kindly allowed information to be reproduced include the International Copper Study Group, the International Lead and Zinc Study Group, the International Nickel Study Group, the Barytes Association and the International Fertilizer Industry Association Ltd. In a few instances, information on specific commodities has been obtained directly from company sources. The co-operation of other members of the International Consultative Group on Metal Statistics is also gratefully acknowledged.

Supplementary information is also obtained from publications dealing with a wider range of commodities such as Société de l'Industrie Minérale, *Annuaire Statistique Mondial des Minerais et Métaux*; World Bureau of Metal Statistics, *World Metal Statistics* and *Metallstatistik*; World Mining Data, 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; Altona Mining Ltd; Aluminium de Grece; Belvedere Resources Ltd; BP Plc; Dragon Mining; Endomines; Eurozinc Mining Corporation; First Quantum; Heidelberg Cement; Inmet Mining; Lapland Gold Miners; Lundin Mining; Nevsun; New Boliden; Norsk Hydro; Nyrstar; Outokumpu; Rio Narcea; Rio Tinto; UC Rusal; Talvivaara; Vargön Alloys AB; Xstrata; Energy Information Agency; European Aggregates Association; Eurofer; Eurostat; Kaolin & Plastic Clays Europe; World Nuclear Association; World Steel Association; Vereinigung der Osterreichischen Zementindustrie, Austria; Federation de l'Industrie Cimentiere Belge, Belgium; Statistics Belgium; Belgian Steel Federation; Czech Republic Statistical Office; Statistics Denmark; Danish Energy Agency, Denmark; Geological Survey of Finland; Fédération Française de l'Acier, France; Unicem, France; Infociments, France; Statistisches Bundesamt Deutschland, Germany; R W Silicium, Germany; BEB Erdgas und Erdol, Germany; Verband der Kali und Salzindustrie EV, Germany; National Statistical Service of Greece; Federacciai, Italy; Unione Petrolifera, Italy; Istituto Nazionale di Statistica, Italy; Stateg, Luxembourg; Centraal Bureau voor de Statistiek, Netherlands; Netherlands Oil and Gas Portal; Statistisk Sentralbyra, Norway; Geological Survey of Norway; Norwegian Petroleum Directorate; Central Statistical Office of Poland; Polish Geological Institute, Poland; Instituto Nacional de Estatistica, Portugal; Ministry of Agriculture, Portugal; 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

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## 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 EU36 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 ( $\text{Al}_2\text{O}_3$ ) 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 attapulgit, 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 in this table 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 – mine production

- (1) There is frequently a considerable disparity between the cobalt content of ore raised and cobalt actually recovered

### 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 – production

- (1) Synthetic diamond is excluded

#### 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 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

#### Kaolin – exports and imports

- (1) The term 'kaolin', as used here, includes kaolin and kaolinitic clay

#### Refined Lead – production

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

#### Lead – exports and imports

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

#### Magnesite and magnesia – exports and imports

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

#### Manganese – exports and imports

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

#### Mercury – production

- (1) Several countries are believed to have unrecorded production of mercury from copper 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 electroplating anodes
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

#### Crude petroleum – production

- (1) The figures include natural gas liquids

#### Natural gas – production

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

#### Natural Gas – exports and imports

- (1) This table includes both liquified natural gas (HS code: 271111) in tonnes and natural gas in gaseous state (HS code 271121) in tonnes of oil equivalent
- (2) To convert figures from million tonnes (of oil equivalent) to billion m<sup>3</sup>, 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) Figures for metal production are only given for countries where recovery is thought to be based predominantly on domestic materials
- (3) 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
- (2) In addition to the countries listed, many countries produce small amounts of 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**

## Albania

### Production

Commodity	Units	2010	2011	2012	2013	2014
Chromium	tonnes	334 467	330 938	365 749	529 592	678 803
Coal						
Lignite	tonnes	3 000	100	—	—	—
Copper, mine	tonnes (metal content)	2 672	4 379	5 691	5 087	3 503
Gypsum	tonnes	* 80 000	* 80 000	91 021	126 349	108 733
Crude steel	tonnes	390 000	464 000	390 000	312 000	637 905
Ferro-alloys						
Ferro-chrome	tonnes	23 233	28 433	24 018	24 692	34 897
Nickel, mined	tonnes (metal content)	1 954	914	750	2 151	4 791
Crude petroleum	tonnes	742 012	894 530	1 029 319	1 203 638	1 342 451
Natural gas	million m3	2	1	18	19	33
Salt						
Sea salt	tonnes	* 47 000	* 47 000	* 47 000	* 47 000	* 47 000

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	887	8 321	24 363	2 517	1 724
Aluminium and bauxite						
Unwrought (a)	tonnes	2 805	3 309	1 940	4 124	(b)* 6 000
Scrap	tonnes	5 290	4 670	6 260	5 854	1 933
Cement						
Cement clinkers	tonnes	87 590	(b)* 22 370	23 341	18 066	(b)* 310
Portland cement	tonnes	511 681	674 037	1 026 560	997 924	22 552
Other cement	tonnes	25	(b)* 350	(b)* 350	(b)* 210	(b)* 210
Chromium						
Ores and concentrates	tonnes	428 385	346 792	427 092	756 361	479 445
Copper						
Ores and concentrates	tonnes	24 820	31 481	36 482	38 311	205
Scrap	tonnes	4 953	5 656	5 725	4 613	1 445
Gypsum						
Crude and calcined	tonnes	1 955	791	2 019	7 439	...
Iron ore	tonnes	277 026	606 577	191 531	191 934	479 445
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	23 493	31 364	29 813	28 389	7 383
Ingots, blooms, billets	tonnes	132 144	162 632	124 525	42 798	(b)* 103 700
Scrap	tonnes	55 885	99 445	86 884	23 038	8 387
Lead						
Unwrought	tonnes	2 914	1 568	1 117	811	...
Nickel						
Ores and concentrates	tonnes	...	...	103	191 605	239 379
Scrap	tonnes	1	7	477	7	...
Crude petroleum	tonnes	537 315	696 762	1 000 850	1 251 513	(b)* 863 000
Salt	tonnes	2 748	13 557	35 464	30 574	24 695
Sulphur and pyrites						
Pyrites	tonnes	...	...	5 076	10 560	...

#### Note(s)

(a) Including alloys

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	15 253	20 645	26 226	41 918	37 907
Aluminium and bauxite						
Bauxite	tonnes	5 408	497	(b)* 1	...	(b)* 2
Unwrought (a)	tonnes	7 198	7 718	9 946	10 631	(b)* 6 000
Scrap	tonnes	1 268	1 234	548	1 802	(b)* 400
Barytes	tonnes	320	1 192	2 665	363	13
Bentonite	tonnes	1 059	1 549	373	377	262
Cement						
Cement clinkers	tonnes	40	...	5 260	79 661	(b) 150 900
Portland cement	tonnes	593 883	384 655	284 837	122 507	(b) 81 800
Other cement	tonnes	300 788	211 346	162 203	107 529	58 603
Chromium						
Ores and concentrates	tonnes	4 651	7 477	...	...	...
Coal						
Anthracite	tonnes	5 023	8 245	9 240	8 729	(b)* 500
Other coal	tonnes	59 663	82 438	90 273	84 406	(b)* 79 800
Fluorspar	tonnes	350	650	55	500	* —
Gypsum						
Crude and calcined	tonnes	2 115	1 644	1 153	1 022	391
Iron, steel and ferro-alloys						
Ferro-silico-manganese	tonnes	3 354	4 145	4 217	3 095	(b)* 4 000
Ferro-silicon	tonnes	484	1 447	915	618	(b)* 30
Other ferro-alloys	tonnes	2 056	10	45	206	...
Scrap	tonnes	292 096	312 746	211 910	201 240	376
Crude petroleum	tonnes	21 972	28 163	276	...	...
Potash						
Other potassic fertilisers	tonnes	650	88	48	30	...
Salt	tonnes	15 415	22 903	14 098	9 647	19 787
Silver						
Metal	kilograms	7 819	4 485	2 768	3 327	230

## Note(s)

(a) Including alloys

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

## Austria

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	(a) 30 182 855	(a) 35 507 353	(a) 31 285 739	(a) 30 123 970	30 276 160
Crushed rock	tonnes	(a) 24 399 380	(a) 26 866 150	(a) 26 348 996	(a) 25 973 740	26 946 973
Cement						
Cement, clinker	tonnes	54 369	131 734	* 125 000	* 120 000	* 120 000
Cement, finished	tonnes	4 499 402	4 291 449	4 162 406	3 967 440	4 048 146
Copper, refined	tonnes	113 700	112 500	113 600	82 842	83 200
Graphite (b)	tonnes	420	925	219	* 500	* 500
Gypsum (c)	tonnes	872 273	815 438	791 961	635 299	729 892
Iron ore (d)	tonnes	2 068 853	2 206 910	2 142 255	2 323 323	2 436 675
Pig iron	tonnes	5 621 000	5 815 000	5 751 000	6 200 000	6 015 000
Crude steel	tonnes	7 206 000	7 474 000	7 421 000	7 953 000	7 876 000
Ferro-alloys						
Ferro-molybdenum	tonnes	4 000	4 000	4 000	4 000	4 000
Ferro-nickel	tonnes	2 500	2 500	2 500	2 500	2 500
Ferro-vanadium	tonnes	8 000	8 000	8 000	8 000	8 000
Kaolin	tonnes	18 914	18 897	13 497	11 558	* 11 500
Lead, refined	tonnes	25 500	26 200	24 504	38 786	37 122
Magnesite	tonnes	757 063	867 912	778 810	714 422	754 096
Crude petroleum	tonnes	875 969	838 052	837 561	847 952	883 016
Natural gas	million m3	1 713	1 591	1 729	1 359	1 245
Nickel, smelter/refinery	tonnes	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Salt						
Rock salt	tonnes	95	169	222	184	245
Salt in brine	tonnes	1 071 842	1 150 474	3 193 216	3 717 419	3 846 881
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	40 512	48 612	47 572	45 442	44 560
Talc	tonnes	138 367	132 018	134 665	134 814	131 108
Tungsten	tonnes (metal content)	975	861	706	851	862

#### Notes

(1) Austria is 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	2010	2011	2012	2013	2014
Primary aggregates	tonnes	2 828 621	2 646 753	2 387 082	2 659 189	2 874 392
Aluminium and bauxite						
Bauxite	tonnes	1	897	11 944	21 832	83
Alumina	tonnes	14 322	34 555	32 486	15 897	18 794
Alumina hydrate	tonnes	32	50	40	30	1 870
Unwrought	tonnes	3 236	2 344	2 465	2 299	1 485
Unwrought alloys	tonnes	151 559	209 748	211 491	276 249	263 678
Scrap	tonnes	122 057	105 138	128 589	151 419	173 159
Barytes						
Barium minerals	tonnes	345	618	766	769	894
Bentonite	tonnes	3 447	4 954	4 513	4 947	4 149
Cement						
Cement clinkers	tonnes	46 560	173 312	121 529	72 246	67 398
Portland cement	tonnes	213 082	330 710	299 060	277 032	347 257
Other cement	tonnes	50 592	25 432	21 521	41 174	41 496
Cobalt						
Metal	tonnes	10 245	2 138	565	707	230

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Chromium						
Ores and concentrates	tonnes	4	1 163	413	9	88
Metal	tonnes	72	60	111	68	48
Copper						
Scrap	tonnes	52 702	55 454	60 033	50 784	57 316
Unwrought, unrefined	tonnes	7 636	7 780	1 049	412	234
Unwrought, refined (a)	tonnes	135 936	129 241	125 425	100 350	91 929
Diamond						
Unsorted	Carats	£191 000	£3 305 000	£17 000	...	...
Gem, cut	Carats	£3 564 000	£6 211 000	£3 657 000	£2 823 000	£5 864 000
Dust	Carats	£225 000	£66 000	£34 000	£122 000	£224 000
Diatomite	tonnes	3 467	2 756	3 550	3 275	3 166
Feldspar	tonnes	13 474	11 807	11 452	11 488	10 668
Gold						
Metal	kilograms	27 800	22 500	18 000	16 600	14 300
Waste and scrap	kilograms	5 900	2 900	1 600	2 800	6 700
Graphite	tonnes	9 518	9 936	5 562	5 216	4 744
Gypsum						
Crude	tonnes	19 124	23 007	18 485	24 898	26 761
Calcined	tonnes	55 927	76 548	79 280	75 787	76 479
Iodine	kilograms	564	413	10 652	200	500
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 476	3	74	776	1 989
Sponge and powder	tonnes	1 195	653	49 019	46 756	10 889
Ferro-manganese	tonnes	150	225	918	1 117	2 234
Ferro-silicon	tonnes	538	1 233	663	1 227	830
Other ferro-alloys	tonnes	1 930	232	710	182	19
Silicon metal	tonnes	7 403	597	1 643	842	557
Ingots, blooms, billets	tonnes	190 343	293 647	238 922	297 349	246 600
Scrap	tonnes	1 034 398	950 865	1 008 503	963 641	1 055 948
Kaolin	tonnes	27 908	6 588	6 958	6 318	5 944
Lead						
Unwrought	tonnes	16 427	15 619	13 329	11 929	14 019
Scrap	tonnes	871	729	983	1 521	2 053
Lithium						
Carbonate	tonnes	170	166	9	13	24
Magnesite and magnesia						
Magnesite	tonnes	989	780	774	559	488
Magnesia	tonnes	39 589	79 519	71 453	70 253	64 204
Mercury (b)	kilograms	* 3 300	* 1 600	* 500	* 200	* 400
Mica	tonnes	4 303	4 245	4 024	3 554	3 411
Molybdenum						
Metal (b)	tonnes	* 2 300	* 2 800	* 2 500	* 2 500	* 3 200
Nickel						
Unwrought (a)	tonnes	208	234	351	305	626
Scrap	tonnes	1 606	2 709	2 633	3 322	5 402
Natural gas	tonnes	2 645 056	2 945 349	1 995 157	992 867	942 452
Platinum metals						
Platinum and platinum metals	kilograms	£83 434 000	£110 119 000	£105 895 000	£101 611 000	£72 848 000
Waste and scrap	kilograms	£1 070 000	£757 000	£733 000	£697 000	£389 000
Potash						
Potassic fertilisers	tonnes	20 259	19 304	21 653	25 037	32 771
Rare earths						
Metals	tonnes	258	452	500	532	475
Cerium compounds	tonnes	1 936	1 167	888	1 102	946
Other rare earth compounds	tonnes	8 658	4 902	5 696	6 166	7 552
Salt	tonnes	500 126	392 506	404 069	475 453	508 940
Silver						
Metal	kilograms	100 300	136 000	155 200	134 800	110 700
Sulphur and pyrites						
Pyrites	tonnes	2 794	2 887	2 579	1 523	965
Sulphur, sublimed and precipitated	tonnes	1 145	746	2 138	3 425	2 230
Talc	tonnes	106 271	115 967	121 264	84 271	127 230
Tantalum and niobium						
Tantalum	tonnes	27	29	21	112	187
Tin						
Unwrought (a)	tonnes	60	98	103	118	112

Austria

Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Titanium						
Metal	tonnes	129	224	317	159	609
Oxides	tonnes	5 956	4 794	3 965	4 052	6 093
Tungsten						
Metal (b)	tonnes	* 3 000	* 2 400	* 2 200	* 1 900	* 2 000
Zinc						
Unwrought (a)	tonnes	8 532	9 776	6 410	11 065	10 933
Scrap	tonnes	5 757	8 583	8 591	10 440	10 077

Note(s)

(a) Including alloys

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	2 284 169	2 184 095	2 521 253	2 420 461	3 404 903
Aluminium and bauxite						
Bauxite	tonnes	8 489	7 842	6 169	9 235	18 742
Alumina	tonnes	47 681	53 232	40 520	20 675	21 841
Alumina hydrate	tonnes	12 914	12 821	14 603	15 411	12 691
Unwrought	tonnes	177 751	197 795	131 764	156 583	146 896
Unwrought alloys	tonnes	239 493	280 502	314 594	235 575	242 352
Scrap	tonnes	268 845	282 707	304 272	280 710	285 564
Antimony						
Metal	tonnes	37	214	267	316	302
Oxide	tonnes	249	204	156	164	288
Barytes	tonnes	3 115	4 711	5 157	3 545	5 262
Bentonite	tonnes	90 229	83 313	91 208	93 506	103 577
Bismuth						
Metal	tonnes	130	138	139	175	166
Bromine	kilograms	318 400	238 900	384 600	647 900	224 800
Cement						
Cement clinkers	tonnes	407 616	393 132	297 009	262 939	261 617
Portland cement	tonnes	637 550	913 116	797 976	749 455	639 189
Other cement	tonnes	71 535	60 349	54 115	133 721	293 335
Chromium						
Ores and concentrates	tonnes	54 945	20 921	33 317	29 138	32 916
Metal	tonnes	6 109	7 868	4 854	4 365	1 424
Coal						
Anthracite	tonnes	3 774	5 760	5 932	1 654	2 246
Other coal	tonnes	3 614 354	3 359 294	3 339 262	3 178 153	3 158 357
Lignite	tonnes	68 777	74 609	75 705	82 039	95 181
Briquettes	tonnes	34 999	35 695	26 598	28 482	32 497
Cobalt						
Metal	tonnes	653	718	730	1 363	785
Oxides	tonnes	10	9	8	54	14
Copper						
Scrap	tonnes	145 903	130 675	127 187	102 554	105 905
Unwrought, unrefined	tonnes	36 218	44 412	42 637	21 970	27 007
Unwrought, refined	tonnes	10 361	16 680	8 374	5 348	9 555
Unwrought alloys	tonnes	1 412	1 376	2 183	2 567	2 868
Diamond						
Unsorted	Carats	£729 000	£3 371 000	£203 000	£108 000	£58 000
Gem, cut	Carats	£9 838 000	£19 112 000	£10 309 000	£9 666 000	£8 346 000
Industrial	Carats	£193 000	£5 500	£149 000	£132 000	£9 600
Dust	Carats	30 000 000	38 000 000	30 500 000	44 000 000	28 000 000
Diatomite	tonnes	13 324	12 798	12 452	12 827	12 983
Feldspar	tonnes	2 433	2 804	2 442	2 094	2 468
Fluorspar	tonnes	3 490	2 911	2 935	2 847	2 738
Gold						
Metal	kilograms	56 600	63 500	47 300	54 400	45 100
Waste and scrap	kilograms	1 400	2 400	3 300	6 900	11 900

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Graphite	tonnes	18 501	21 867	9 272	10 843	17 738
Gypsum						
Crude	tonnes	22 432	84 817	36 806	67 145	123 475
Calcined	tonnes	70 850	72 696	77 931	70 371	88 121
Iodine	kilograms	213 000	198 500	147 200	195 100	322 300
Iron ore (a)	tonnes	9 309 860	9 966 338	9 628 923	8 269 199	6 289 430
Iron, steel and ferro-alloys						
Pig iron	tonnes	25 355	30 367	18 706	18 579	18 012
Sponge and powder	tonnes	13 537	18 585	90 782	49 177	60 919
Ferro-chrome	tonnes	29 355	38 422	35 000	31 026	34 149
Ferro-silico-magnesium	tonnes	132	150	97	101	47
Ferro-manganese	tonnes	17 840	21 671	21 540	27 737	35 023
Ferro-silico-manganese	tonnes	22 976	19 931	18 862	17 957	17 995
Ferro-molybdenum	tonnes	742	1 402	1 503	1 127	883
Ferro-nickel	tonnes	...	973	906	971	889
Ferro-niobium	tonnes	1 061	1 191	1 865	1 165	1 235
Ferro-phosphorus	tonnes	1 232	2 497	610	761	266
Ferro-silicon	tonnes	27 063	33 709	38 402	58 296	56 677
Ferro-titanium and ferro-silico-titanium	tonnes	471	630	607	367	567
Ferro-tungsten and ferro-silico-tungsten	tonnes	552	715	624	533	452
Ferro-vanadium	tonnes	166	65	300	204	191
Other ferro-alloys	tonnes	3 549	4 806	3 067	2 974	1 666
Silicon metal	tonnes	11 497	10 180	7 189	8 773	8 278
Ingots, blooms, billets	tonnes	159 527	186 929	196 328	155 829	314 537
Scrap	tonnes	991 574	1 016 301	1 007 906	1 168 752	1 270 084
Kaolin	tonnes	194 396	187 831	171 310	161 876	157 527
Lead						
Unwrought	tonnes	19 391	31 675	29 938	40 143	45 566
Scrap	tonnes	264	837	558	1 560	1 260
Lithium						
Carbonate	tonnes	402	463	359	298	340
Magnesite and magnesia						
Magnesite	tonnes	848	1 512	1 069	489	213
Magnesia	tonnes	272 232	214 788	180 117	219 973	239 362
Manganese						
Ores and concentrates	tonnes	152	334	222	198	223
Metal	tonnes	16 696	21 123	21 692	20 665	25 822
Mica	tonnes	874	656	625	493	339
Molybdenum						
Ores and concentrates	tonnes	...	...	—	—	8 151
Metal	tonnes	548	951	440	414	917
Nickel						
Scrap	tonnes	440	527	1 917	4 359	4 375
Unwrought (b)	tonnes	6 894	9 231	8 830	8 004	9 062
Oxides	tonnes	15	8	247	63	7
Crude petroleum	tonnes	6 770 069	7 358 582	7 463 478	7 831 498	7 663 094
Natural gas	tonnes	8 697 934	9 390 448	10 043 171	7 317 311	7 096 338
Phosphate rock	tonnes	(c)* 160 000	61 030	(c)* 6 500	(c)* 106	(c)* 200
Platinum metals						
Platinum and platinum metals	kilograms	1 400	4 100	500	2 600	1 100
Waste and scrap	kilograms	100	21 400	1 100	700	5 500
Potash						
Sulphate	tonnes	15 074	9 595	15 636	14 738	15 276
Chloride	tonnes	105 299	102 028	132 302	125 318	146 317
Other potassic fertilisers	tonnes	18 201	9 418	12 312	16 730	19 225
Rare earths						
Metals	tonnes	550	325	442	595	429
Cerium compounds	tonnes	1 766	1 310	696	979	765
Other rare earth compounds	tonnes	3 375	1 646	802	1 630	1 973
Salt	tonnes	293 799	291 187	162 790	314 374	132 360
Sillimanite minerals	tonnes	2 089	2 224	3 093	1 941	1 289
Silver						
Metal	kilograms	481 800	804 000	331 500	583 000	267 100
Sulphur and pyrites						
Pyrites	tonnes	3 154	3 321	3 340	2 133	2 043
Sulphur	tonnes	75 065	70 892	49 910	51 428	58 522
Sulphur, sublimed and precipitated	tonnes	15 331	22 109	16 997	22 895	18 623

## Austria

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Talc	tonnes	74 554	93 985	86 891	84 634	102 494
Tantalum and niobium						
Tantalum	tonnes	17	4	5	31	56
Tin						
Unwrought (b)	tonnes	2 923	3 403	3 186	3 423	3 845
Titanium						
Titanium minerals	tonnes	477	580	284	432	388
Metal	tonnes	1 381	2 590	3 130	2 737	2 859
Oxides	tonnes	28 288	32 258	21 255	20 972	26 352
Tungsten						
Metal	tonnes	632	1 471	1 017	950	997
Carbide	tonnes	1 268	1 241	1 076	968	1 340
Vanadium						
Vanadiferous residues	tonnes	* 46 000	* 46 000	* 46 000	* 46 000	* 46 000
Pentoxide	tonnes	...	...	...	...	1 754
Zinc						
Unwrought	tonnes	37 560	47 394	51 634	72 381	69 138
Unwrought alloys	tonnes	34 411	38 759	34 920	33 182	33 553
Scrap	tonnes	298	4 827	9 832	9 204	12 481
Zirconium						
Concentrates	tonnes	1 680	1 994	1 344	1 193	1 132

## Note(s)

(a) Including burnt pyrites

(b) Including alloys

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



# Belgium

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	* 22 000 000	* 23 000 000	* 21 000 000	* 21 000 000	* 19 000 000
Crushed rock	tonnes	* 44 000 000	* 49 000 000	* 46 000 000	* 46 000 000	* 45 000 000
Arsenic	tonnes	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Cement						
Cement, clinker	tonnes	858 871	* 700 000	726 690	911 116	* 900 000
Cement, finished	tonnes	5 990 000	6 844 000	6 280 000	6 119 000	6 364 000
Cobalt (a)	tonnes	2 600	3 187	4 200	5 415	5 850
Copper, refined	tonnes	381 200	394 200	396 700	389 400	387 300
Indium	tonnes	* 30	* 30	* 30	* 30	* 30
Pig iron	tonnes	4 688 000	4 700 000	4 073 000	4 343 000	4 335 000
Crude steel	tonnes	7 973 000	8 026 000	7 301 000	7 127 000	7 331 000
Kaolin	tonnes	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Lead, refined	tonnes	121 000	119 000	119 000	129 429	133 252
Selenium metal	tonnes	* 200	* 200	* 200	* 200	* 200
Sulphur and pyrites						
Recovered (b)(c)	tonnes (sulphur content)	353 000	396 500	382 100	396 900	* 400 000
Tin	tonnes	9 946	10 008	11 350	10 346	9 718
Zinc, mine (d)	tonnes	260 000	282 000	250 000	252 000	262 000

### Notes

- (a) Some metal production in China is recorded in Belgium  
 (b) From metal sulphide processing  
 (c) From petroleum refining and/or natural gas  
 (d) Years ended 31 March following that stated

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	12 427 043	13 083 592	12 886 680	12 158 112	13 157 456
Aluminium and bauxite						
Bauxite	tonnes	48 683	37 533	36 651	34 078	48 647
Alumina	tonnes	7 516	21 284	5 218	28 210	9 675
Unwrought	tonnes	257 888	150 542	95 405	166 743	169 124
Unwrought alloys	tonnes	14 204	30 285	61 019	74 265	67 028
Scrap	tonnes	274 819	321 484	311 716	286 908	285 743
Antimony						
Ores and concentrates	tonnes	433	274	1 187	4	57
Metal	tonnes	776	732	259	271	138
Oxide	tonnes	10 599	10 417	7 818	7 751	8 555
Arsenic						
Metallic arsenic	tonnes	114	120	191	104	79
Barytes						
Barium minerals	tonnes	3 216	213	1 713	11 796	33 463
Bentonite	tonnes	28 632	28 512	31 222	29 489	43 915
Bromine	kilograms	12 619 000	25 002 100	25 239 600	27 339 200	21 651 100
Cadmium						
Metal	tonnes	459	545	690	178	229
Oxide	tonnes	4 413	3 734	3 764	2 767	2 189
Cement						
Cement clinkers	tonnes	582 766	744 707	638 496	775 332	729 017
Portland cement	tonnes	1 676 150	1 729 402	1 631 167	1 719 988	1 870 308
Other cement	tonnes	410 909	353 126	253 759	239 879	182 001
Chromium						
Ores and concentrates	tonnes	18 415	13 945	34 801	44 009	59 056
Metal	tonnes	1 311	1 010	676	915	558

## Belgium

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Coal</b>						
Anthracite	tonnes	1 652 015	1 915 992	1 668 940	1 772 455	1 300 147
Other coal	tonnes	4 211 655	2 560 811	3 566 699	2 502 987	1 407 064
Lignite	tonnes	18 781	42 164	51 514	42 225	49 615
Briquettes	tonnes	18 899	40 374	41 363	55 684	71 817
<b>Cobalt</b>						
Ore	tonnes	633	2 431	362	175	197
Metal (a)	tonnes	* 4 400	* 2 400	* 2 300	* 2 500	* 2 900
<b>Copper</b>						
Ores and concentrates	tonnes	4 549	2 046	3 242	1 874	696
Matte and cement	tonnes	6 935	9 042	10 231	13 334	14 382
Unwrought, unrefined	tonnes	42 836	40 660	27 586	37 012	24 804
Unwrought, refined	tonnes	189 253	187 595	242 533	230 392	27 574
Unwrought alloys	tonnes	12 116	11 763	12 436	12 049	12 270
Scrap	tonnes	141 380	165 713	168 705	144 000	128 467
<b>Diamond</b>						
Gem, rough	Carats	113 000 000	90 500 000	89 000 000	95 000 000	103 000 000
Gem, cut	Carats	£4 127 959 000	£4 673 765 000	£3 813 301 000	£4 408 390 000	£3 898 534 000
Industrial	Carats	£18 509 000	£21 037 000	£17 642 000	£15 435 000	£12 450 000
Dust	Carats	£13 948 000	£12 800 000	£11 590 000	£11 072 000	£10 437 000
Diatomite	tonnes	3 004	3 122	2 690	3 566	3 547
Feldspar	tonnes	64	317	417	2 830	170
Fluorspar	tonnes	122 483	118 782	147 771	106 343	90 782
<b>Gold</b>						
Metal	kilograms	22 842	6 200	12 900	18 100	16 400
Waste and scrap	kilograms	173 700	67 800	58 600	70 800	7 965 500
Graphite	tonnes	993	1 316	1 716	1 366	1 658
<b>Gypsum</b>						
Crude	tonnes	92 533	101 382	72 899	81 189	84 022
Calcined	tonnes	177 046	(a)* 195 000	(a)* 184 000	(a)* 187 000	(a)* 188 000
Iodine	kilograms	3 989 500	3 584 800	3 391 900	4 457 300	5 356 700
Iron ore	tonnes	366 331	455 069	76 216	7 694	1 918
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	254 854	255 067	232 381	218 946	171 376
Sponge and powder	tonnes	35 395	10 029	14 734	22 163	19 703
Ferro-chrome	tonnes	25 965	23 538	26 098	26 507	43 882
Ferro-silico-chrome	tonnes	5 849	1 549	666	—	13
Ferro-manganese	tonnes	26 544	41 161	43 319	30 129	15 544
Ferro-silico-manganese	tonnes	48 652	47 762	10 280	4 867	2 927
Ferro-molybdenum	tonnes	19 593	20 134	21 760	23 643	27 926
Ferro-nickel	tonnes	...	775	675	57	122
Ferro-niobium	tonnes	...	122	297	234	317
Ferro-phosphorus	tonnes	...	117	211	632	1 091
Ferro-silicon	tonnes	23 071	33 676	25 595	32 322	28 415
Ferro-titanium and ferro-silico-titanium	tonnes	...	31	165	106	113
Ferro-tungsten and ferro-silico-tungsten	tonnes	...	38	44	133	373
Ferro-vanadium	tonnes	...	94	94	199	241
Other ferro-alloys	tonnes	4 137	14 947	6 559	8 315	7 203
Silicon metal	tonnes	8 522	8 396	2 327	2 127	1 910
Ingots, blooms, billets	tonnes	487 535	484 510	336 540	288 335	211 596
Scrap	tonnes	3 754 403	3 533 560	3 618 789	3 218 658	3 949 162
Kaolin	tonnes	523 697	232 664	219 024	193 131	759 901
<b>Lead</b>						
Ores and concentrates	tonnes	101 160	167 055	136 787	290 625	299 740
Unwrought	tonnes	145 571	130 655	127 052	159 411	154 651
Scrap	tonnes	21 479	18 945	18 051	17 405	19 041
<b>Lithium</b>						
Oxides	tonnes	2 284	1 890	2 320	2 380	2 442
Carbonate	tonnes	4 539	4 428	4 985	6 736	5 549
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	1 235	914	150	2 469	1 318
Magnesia	tonnes	96 513	58 237	49 561	17 793	10 618
<b>Manganese</b>						
Ores and concentrates	tonnes	4 444	9 982	4 236	7 751	5 003
Metal	tonnes	1 185	1 625	1 447	2 959	4 828
Mercury	kilograms	11 500	600	8 700	7 900	110
Mica	tonnes	1 590	2 363	3 587	2 561	3 110

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Molybdenum</b>						
Ores and concentrates	tonnes	24 396	25 337	19 444	18 384	19 546
Metal	tonnes	371	128	204	650	880
Oxides	tonnes	83	366	688	59	116
<b>Nickel</b>						
Mattes, sinters etc	tonnes	697	2 380	3 328	2 379	1 053
Unwrought	tonnes	9 271	9 684	11 517	12 067	11 189
Unwrought alloys	tonnes	1 357	1 838	3 838	14 106	12 268
Oxides	tonnes	221	910	498	1 080	282
Scrap	tonnes	3 443	7 430	2 407	2 953	11 773
Crude petroleum	tonnes	2 593 653	2 278 613	2 085 993	2 149 195	2 472 878
Natural gas	tonnes	12 091 105	24 078 554	14 990 395	21 292 092	11 318 364
Phosphate rock	tonnes	30 744	62 021	63 004	66 964	46 172
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	7 500	8 900	5 300	5 400	2 100
Waste and scrap	kilograms	497 000	218 400	31 200	9 300	31 900
<b>Potash</b>						
Chloride	tonnes	64 018	100 097	217 498	65 796	27 879
<b>Rare earths</b>						
Metals	tonnes	476	110	134	171	202
Rare earth compounds	tonnes	332	265	141	180	238
Salt	tonnes	288 679	354 644	151 767	269 571	151 954
Sillimanite minerals	tonnes	53 940	51 011	35 685	32 902	33 547
<b>Silver</b>						
Ores and concentrates	kilograms	12 300	2 149 800	1 409 800	982 300	2 009 800
Metal	kilograms	21 800	197 000	311 900	(a)* 152 906	1 600
<b>Sulphur and pyrites</b>						
Sulphur	tonnes	21 533	34 087	10 274	9 828	27 977
Sulphur, sublimed and precipitated	tonnes	193	83	119	298	85
Talc	tonnes	128 526	125 040	109 253	114 645	102 599
<b>Tantalum and niobium</b>						
Tantalum	tonnes	4	2	2	121	3
<b>Tin</b>						
Concentrates	tonnes	127	95	107	114	509
Unwrought	tonnes	5 114	4 261	7 428	11 881	11 217
Unwrought alloys	tonnes	6 236	6 427	5 018	408	663
Scrap	tonnes	207	1 195	308	2 496	2 483
<b>Titanium</b>						
Titanium minerals	tonnes	106 478	116 859	119 931	96 990	104 513
Metal	tonnes	895	1 405	1 560	1 336	1 038
Oxides	tonnes	435 415	390 405	345 752	399 734	381 857
<b>Tungsten</b>						
Ores and concentrates	tonnes	27	406	544	350	20
Metal	tonnes	723	368	657	427	446
Carbide	tonnes	92	92	77	82	43
<b>Vanadium</b>						
Pentoxide	tonnes	80	* 116	65	7	3
<b>Zinc</b>						
Ores and concentrates	tonnes	749 582	725 335	859 086	773 334	840 967
Unwrought	tonnes	155 654	296 197	277 418	244 589	252 548
Unwrought alloys	tonnes	...	154 258	140 766	155 488	183 718
Scrap	tonnes	14 540	11 652	15 063	13 333	15 985
<b>Zirconium</b>						
Concentrates	tonnes	17 417	12 021	13 246	17 228	9 173
Metal	tonnes	187	272	186	197	274

Note(s)

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	22 484 726	23 911 051	22 934 219	20 869 873	20 335 594
Aluminium and bauxite						
Bauxite	tonnes	75 600	52 727	41 111	41 968	57 338
Alumina	tonnes	19 028	20 406	25 501	21 092	22 643
Alumina hydrate	tonnes	34 978	52 806	36 956	63 875	46 644
Unwrought	tonnes	517 946	412 600	400 947	364 106	321 243
Unwrought alloys	tonnes	193 103	218 350	159 147	168 240	147 383
Scrap	tonnes	228 517	257 366	249 187	206 775	237 259
Antimony						
Ores and concentrates	tonnes	5	—	1	—	5 864
Metal	tonnes	10 280	9 451	7 195	7 613	7 216
Oxide	tonnes	904	831	1 822	786	794
Arsenic						
Metallic arsenic	tonnes	114	634	284	72	74
Barytes						
Barium minerals	tonnes	5 637	4 294	12 095	7 961	36 304
Bentonite	tonnes	72 971	91 291	68 771	71 394	77 905
Bismuth						
Metal	tonnes	1	24	16	30	41
Bromine	kilograms	18 693 500	28 221 500	28 260 600	27 220 500	29 495 400
Cadmium						
Metal	tonnes	6 456	5 932	3 683	3 944	2 058
Oxide	tonnes	43	109	7	32	111
Cement						
Cement clinkers	tonnes	740 528	717 664	649 014	779 293	929 178
Portland cement	tonnes	1 030 282	1 113 638	1 310 336	978 809	773 120
Other cement	tonnes	172 609	158 441	163 298	138 660	141 542
Chromium						
Ores and concentrates	tonnes	25 350	22 896	39 090	52 755	57 166
Metal	tonnes	1 593	3 023	977	834	1 062
Coal						
Anthracite	tonnes	2 660 267	3 382 132	2 377 808	2 077 612	1 862 605
Other coal	tonnes	6 851 382	5 887 514	7 104 464	6 870 834	4 867 631
Lignite	tonnes	362 257	411 424	425 918	474 879	495 571
Briquettes	tonnes	27 379	53 793	40 447	60 486	65 614
Cobalt						
Ore	tonnes	156	379	349	66	42
Metal	tonnes	222	368	246	181	454
Copper						
Ores and concentrates	tonnes	10 554	13 735	1 278	3 413	3 908
Matte and cement	tonnes	29 857	41 741	40 104	(a)* 9 000	(a)* 14 000
Unwrought, unrefined	tonnes	191 159	206 987	181 032	174 338	223 874
Unwrought, refined	tonnes	61 447	34 734	71 465	59 309	50 215
Unwrought alloys	tonnes	4 917	5 134	2 971	3 686	2 133
Scrap	tonnes	272 816	255 661	303 702	307 373	293 141
Diamond						
Unsorted	Carats	£32 253 000	£40 264 000	£39 850 000	£309 925 000	£525 786 000
Gem, rough	Carats	63 000 000	67 500 000	54 500 000	64 000 000	75 000 000
Gem, cut	Carats	3 000 000	3 000 000	500 000	* 2 260 000	500 000
Industrial	Carats	3 000 000	1 000 000	2 500 000	2 000 000	2 000 000
Dust	Carats	61 000 000	58 000 000	68 500 000	57 500 000	68 500 000
Diatomite	tonnes	11 813	10 815	7 143	7 753	9 287
Feldspar	tonnes	24 495	22 623	17 062	18 181	17 998
Fluorspar	tonnes	134 266	145 776	173 038	119 747	123 193
Gold						
Metal	kilograms	10 100	9 100	9 400	10 900	10 700
Waste and scrap (a)	kilograms	* 557 000	* 495 000	* 726 000	* 602 000	* 486 000
Graphite	tonnes	7 243	7 473	6 109	6 321	6 779
Gypsum						
Crude	tonnes	616 338	683 957	838 204	641 842	802 877
Calcined	tonnes	396 873	507 725	455 117	422 056	403 858
Iodine	kilograms	4 087 700	3 814 500	4 663 100	4 773 300	5 909 800
Iron ore	tonnes	(b) 7 567 498	7 425 015	6 309 506	(b) 6 303 617	(b) 6 748 563

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	331 652	320 083	286 145	261 257	224 056
Sponge and powder	tonnes	39 503	54 212	42 889	65 817	45 121
Ferro-chrome	tonnes	263 715	248 006	275 926	312 300	288 703
Ferro-silico-chrome	tonnes	1 950	10 437	19 741	5 569	314
Ferro-silico-magnesium	tonnes	1 992	1 716	1 258	831	915
Ferro-manganese	tonnes	48 471	69 017	70 732	59 929	32 382
Ferro-silico-manganese	tonnes	72 195	77 001	28 938	29 946	22 453
Ferro-molybdenum	tonnes	2 160	3 261	3 437	4 248	5 069
Ferro-nickel	tonnes	48 017	64 242	40 217	45 403	53 439
Ferro-niobium	tonnes	1 890	1 598	1 687	2 047	2 262
Ferro-phosphorus	tonnes	2 612	1 459	1 227	1 536	2 042
Ferro-silicon	tonnes	92 785	105 445	87 805	88 808	104 298
Ferro-titanium and ferro-silico-titanium	tonnes	2 926	2 377	2 525	2 157	2 380
Ferro-tungsten and ferro-silico-tungsten	tonnes	229	93	249	227	471
Ferro-vanadium	tonnes	214	146	263	397	413
Other ferro-alloys	tonnes	7 039	8 777	7 451	9 086	8 121
Silicon metal	tonnes	23 566	21 688	10 440	13 602	16 044
Ingots, blooms, billets	tonnes	2 554 975	2 916 336	2 458 279	1 634 190	1 811 792
Scrap	tonnes	4 726 992	4 634 651	4 330 264	4 238 922	4 746 513
Kaolin	tonnes	1 001 057	890 863	868 298	854 056	930 145
<b>Lead</b>						
Ores and concentrates	tonnes	169 356	154 976	139 771	214 596	213 749
Unwrought	tonnes	14 467	27 696	77 349	33 247	48 052
Scrap	tonnes	31 992	33 219	26 023	24 479	29 470
<b>Lithium</b>						
Oxides	tonnes	2 410	2 953	2 515	3 179	2 389
Carbonate	tonnes	4 183	7 770	7 205	6 403	4 406
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	3 820	2 076	643	800	611
Magnesia	tonnes	80 845	70 954	58 355	46 379	33 152
<b>Manganese</b>						
Ores and concentrates	tonnes	49 731	49 393	50 509	51 271	49 950
Metal	tonnes	4 377	5 466	4 636	5 946	10 178
Mercury	kilograms	57 200	12 500	505	707	200
<b>Mica</b>						
Unmanufactured	tonnes	2 636	2 395	4 331	1 893	2 402
Ground	tonnes	4 086	4 722	3 314	3 803	3 452
Waste	tonnes	8	120	1 212	929	1 114
<b>Molybdenum</b>						
Ores and concentrates	tonnes	46 899	42 498	39 523	45 135	48 791
Metal	tonnes	142	235	304	720	929
Oxides	tonnes	694	1 204	1 659	1 542	862
<b>Nickel</b>						
Mattes, sinters etc	tonnes	330	598	1 541	3 770	968
Scrap	tonnes	918	1 553	1 907	2 109	787
Unwrought	tonnes	15 052	19 170	19 032	19 343	20 768
Unwrought alloys	tonnes	469	574	3 035	11 930	10 110
Oxides	tonnes	700	1 033	576	1 322	284
Crude petroleum	tonnes	35 234 358	34 059 177	35 087 312	32 729 841	37 638 864
Natural gas	tonnes	14 144 704	13 250 074	12 979 827	12 670 698	13 060 915
Phosphate rock	tonnes	1 114 210	1 076 842	1 038 397	946 026	876 395
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	5 189	3 763	3 055	10 418	1 217
<b>Potash</b>						
Sulphate	tonnes	21 604	6 225	15 461	7 775	27 690
Chloride	tonnes	744 987	1 511 805	740 726	717 027	660 878
Other potassic fertilisers	tonnes	13 668	13 771	3 794	5 567	6 126
<b>Rare earths</b>						
Metals	tonnes	411	205	136	205	6
Cerium compounds	tonnes	323	289	146	204	401
Other rare earth compounds	tonnes	172	58	41	52	19
Ferro-cerium and other pyrophoric alloys	tonnes	2	0	7	0	1
Salt	tonnes	1 751 650	2 001 517	1 272 556	1 696 164	1 620 942
<b>Sillimanite minerals</b>						
Sillimanite minerals	tonnes	53 115	50 427	32 683	31 070	38 669
Mullite	tonnes	1 955	1 690	4 139	3 391	3 045

## Belgium

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Silver						
Ores and concentrates	kilograms	6 000 300	7 619 600	25 085 300	2 799 000	—
Metal	kilograms	86 500	71 100	80 200	60 400	55 200
Sulphur and pyrites						
Pyrites	tonnes	20	18	15	0	641
Sulphur	tonnes	592 348	562 688	568 833	662 537	615 912
Sulphur, sublimed and precipitated	tonnes	621	473	558	561	343
Talc	tonnes	183 625	175 662	163 309	168 067	154 480
Tin						
Concentrates	tonnes	200	488	253	124	220
Unwrought	tonnes	1 131	847	1 365	657	1 859
Unwrought alloys	tonnes	3 289	2 785	3 109	3 971	4 781
Scrap	tonnes	3 560	3 551	7 001	7 843	6 461
Titanium						
Titanium minerals	tonnes	181 688	213 276	205 930	174 657	221 108
Metal	tonnes	1 743	1 582	1 160	1 454	1 444
Oxides	tonnes	* 314 200	114 760	97 229	126 543	124 733
Tungsten						
Ores and concentrates	tonnes	28	—	—	48	3
Metal	tonnes	402	321	202	112	173
Carbide	tonnes	31	20	22	52	30
Vanadium						
Pentoxide	tonnes	123	95	364	200	26
Zinc						
Ores and concentrates	tonnes	1 129 207	1 182 797	1 194 208	1 132 719	1 157 770
Unwrought	tonnes	189 980	280 492	267 917	214 491	375 977
Unwrought alloys	tonnes	10 613	11 844	30 383	40 924	26 113
Scrap	tonnes	68 233	66 665	57 765	52 498	51 133
Zirconium						
Concentrates	tonnes	17 469	12 317	12 682	17 652	10 321
Metal	tonnes	370	480	309	382	306

## Note(s)

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

(b) Including burnt pyrites

# Bulgaria

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	5 199 000	10 054 205	9 293 819	8 433 198	9 384 908
Crushed rock	tonnes	16 876 900	17 979 678	18 281 353	18 963 207	21 786 053
Barytes	tonnes	500	200	—	1 000	20 000
Bentonite	tonnes	99 700	53 900	77 900	—	* —
Bismuth	tonnes (metal content)	* 3	* 3	* 3	* 3	* 3
Cadmium	tonnes	389	427	363	* 360	* 360
Cement						
Cement, clinker	tonnes	2 071 100	1 475 700	* 1 500 000	* 1 500 000	* 1 500 000
Cement, finished	tonnes	1 981 971	1 889 502	1 754 204	1 796 021	1 762 366
Coal						
Lignite	tonnes	27 148 300	34 496 200	31 040 700	26 459 300	29 129 000
Brown coal	tonnes	2 321 200	2 743 500	2 556 700	2 301 500	2 200 000
Copper, mine (a)	tonnes (metal content)	112 904	114 603	118 255	115 149	108 300
Copper, smelter	tonnes	247 300	283 800	269 100	294 000	305 000
Copper, refined	tonnes	216 000	226 100	226 000	230 100	234 000
Feldspar	tonnes	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
Fluorspar	tonnes	10	31 800	69 700	82 500	* 82 500
Gold	kilograms	4 489	5 302	7 058	7 385	7 899
Gypsum	tonnes	109 200	114 800	113 700	119 100	* 119 000
Crude steel	tonnes	744 000	835 000	633 000	523 000	612 000
Kaolin	tonnes	* 16 832	7 700	33 900	22 600	* 32 000
Lead, mine (a)	tonnes (metal content)	12 705	14 369	15 949	16 914	15 600
Lead, refined	tonnes	98 000	90 000	85 000	90 000	92 000
Manganese	tonnes	106 000	85 600	39 100	103 600	* 75 000
Perlite	tonnes	—	—	3 700	—	* —
Crude petroleum	tonnes	22 400	21 400	23 600	27 400	* 26 100
Natural gas	million m <sup>3</sup>	74	443	390	282	181
Salt	tonnes	1 900 000	2 200 000	2 100 000	2 000 000	* 2 000 000
Silver	kilograms (metal content)	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	379 000	411 800	375 800	392 200	* 392 000
Recovered (c)	tonnes (sulphur content)	50 000	50 000	55 000	60 000	* 60 000
Vermiculite	tonnes	* 3 000	* 15 000	* 18 600	* 18 600	* 18 600
Zinc, mine (a)	tonnes (metal content)	9 904	10 977	12 116	13 902	11 900
Slab Zinc	tonnes	93 800	88 400	73 100	* 72 000	87 800

### Notes

(1) Bulgaria is believed to produce chromite and magnesite

(a) Metal content of ore

(b) From metal sulphide processing

(c) From petroleum refining and/or natural gas

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	262 166	325 857	513 135	377 613	392 669
Aluminium and bauxite						
Unwrought alloys	tonnes	6 798	7 555	5 866	6 440	7 668
Scrap	tonnes	31 728	26 302	25 579	22 765	23 585
Barytes						
Barium minerals	tonnes	505	231	—	960	19 373
Bentonite	tonnes	72 183	67 118	63 090	45 919	35 954
Bromine	kilograms	...	0	0	25 200	100
Cadmium						
Metal	tonnes	474	421	394	382	385

## Bulgaria

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Cement						
Cement clinkers	tonnes	5 246	8 131	296 372	237 020	270 307
Portland cement	tonnes	164 404	190 570	269 199	269 977	112 636
Other cement	tonnes	1 772	6 516	21 341	4 713	3 833
Chromium						
Metal	tonnes	2	603	304	91	142
Coal						
Anthracite	tonnes	150	2 538	2 731	2 914	2 560
Other coal	tonnes	76 358	123 691	130 739	129 657	63 232
Lignite	tonnes	9 525	2 744	635	127	25 357
Copper						
Ores and concentrates	tonnes	86 171	131 874	204 416	231 388	246 882
Matte and cement	tonnes	5 048	5 827	4 565	3 967	2 217
Unwrought, unrefined	tonnes	7 926	10 844	70 347	121 280	116 252
Unwrought, refined	tonnes	206 309	353 450	(a) 202 925	(a) 199 742	(a) 196 880
Scrap	tonnes	18 226	12 982	12 318	10 760	8 488
Feldspar	tonnes	19 087	19 329	19 414	19 433	18 530
Fluorspar	tonnes	821	33	60	986	4 670
Gypsum						
Crude and calcined	tonnes	3 641	10 953	21 872	11 800	19 110
Iodine	kilograms	600	600	500	400	500
Iron ore	tonnes	1	—	26 823	2 776	156 101
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 141	854	1 249	2 157	1 777
Ferro-manganese	tonnes	...	85	153	969	537
Ferro-silico-manganese	tonnes	19	1	136	761	1 717
Ferro-molybdenum	tonnes	...	—	—	576	240
Ferro-silicon	tonnes	980	248	1 563	1 463	1 679
Other ferro-alloys	tonnes	2 115	227	754	1 652	110
Ingots, blooms, billets	tonnes	30 327	24 822	14 564	11 786	6 658
Scrap	tonnes	949 000	850 898	730 749	610 990	398 988
Kaolin	tonnes	159 669	197 114	193 385	200 655	214 229
Lead						
Ores and concentrates	tonnes	4 611	9 331	2 120	6 896	12 174
Unwrought	tonnes	78 977	68 472	64 354	73 577	83 056
Magnesite and magnesia						
Magnesite	tonnes	—	537	241	94	148
Manganese						
Ores and concentrates	tonnes	163 257	91 110	76 140	50 390	73 996
Molybdenum						
Ores and concentrates	tonnes	...	...	101	304	265
Metal	tonnes	122	355	133	139	138
Nickel						
Scrap	tonnes	1 220	2	...	9	10
Natural gas	tonnes	(b)* 13	(b)* 5	(b)* 539	(b)* 864	1 416
Platinum metals						
Platinum and platinum metals	kilograms	1	15	22	8	519
Waste and scrap (b)	kilograms	* 16 000	* 23 000	* 21 000	* 37 000	* 28 000
Salt	tonnes	1 078	6 074	170	1 313	892
Silver						
Ores and concentrates	kilograms	...	8 900	...	(b)* 1 449 000	3 469 100
Metal	kilograms	37 300	35 200	49 000	52 600	50 200
Sulphur and pyrites						
Sulphur	tonnes	40 286	38 097	41 601	45 592	39 738
Titanium						
Metal	tonnes	—	849	64	114	26
Oxides	tonnes	584	987	408	258	274
Tungsten						
Metal	tonnes	80	11	12	5	11
Zinc						
Unwrought (a)	tonnes	81 332	71 894	57 768	54 272	60 880
Scrap	tonnes	1 949	2 021	2 185	1 353	1 382

## Note(s)

(a) Including alloys

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



## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	14 843	15 075	18 661	50 149	88 713
Aluminium and bauxite						
Alumina	tonnes	2 887	1 875	3 429	3 946	3 919
Unwrought	tonnes	44 468	43 192	43 405	50 232	33 071
Unwrought alloys	tonnes	27 444	35 685	42 685	55 507	61 910
Scrap	tonnes	6 897	4 625	1 582	1 742	1 607
Arsenic						
Metallic arsenic	tonnes	3	10	10	27	12
Barytes						
Barium minerals	tonnes	155	112	848	1 840	1 173
Bentonite	tonnes	2 548	2 591	2 074	2 659	2 843
Bromine	kilograms	...	4 321	52	19 500	500
Cement						
Cement clinkers	tonnes	16 167	17 478	14 586	4 929	20 157
Portland cement	tonnes	448 220	431 780	436 036	368 272	333 479
Other cement	tonnes	2 510	6 147	8 567	6 496	2 085
Chromium						
Ores and concentrates	tonnes	671	971	1 086	679	1 059
Coal						
Anthracite	tonnes	1 858 397	2 203 775	1 132 609	732 939	842 995
Other coal	tonnes	1 081 783	1 032 074	1 080 540	964 062	939 141
Briquettes	tonnes	46 754	19	47	24	—
Cobalt						
Metal	tonnes	1	1	1	3	50
Copper						
Ores and concentrates	tonnes	575 192	836 387	756 349	1 008 680	913 418
Matte and cement	tonnes	13 642	2 006	98	17	84
Unwrought	tonnes	8 272	12 441	6 982	15 532	14 760
Scrap	tonnes	35 464	52 461	64 563	56 040	60 453
Diamond						
Dust	Carats	7 251 395	7 571 255	7 641 000	* 9 090 000	9 000 000
Feldspar	tonnes	86 861	86 056	84 230	110 954	135 195
Fluorspar	tonnes	700	1 742	1 262	421	737
Gold						
Metal	kilograms	55	1 596	342	137	200
Gypsum						
Crude	tonnes	6 239	11 399	6 338	5 416	6 994
Calcined	tonnes	44 383	37 323	29 471	32 856	35 069
Iodine	kilograms	2 300	2 800	3 600	3 200	3 200
Iron ore						
Iron ore	tonnes	7 991	1 265	1 987	9 634	13 859
Burnt pyrites	tonnes	16 653	16 679	11 794	4 344	3 046
Iron, steel and ferro-alloys						
Pig iron	tonnes	14 781	17 521	13 807	19 196	14 048
Ferro-chrome	tonnes	356	578	489	441	475
Ferro-silico-magnesium	tonnes	164	183	177	237	339
Ferro-manganese	tonnes	3 137	6 280	3 816	2 531	2 689
Ferro-silico-manganese	tonnes	4 291	6 324	6 966	5 503	7 722
Ferro-molybdenum	tonnes	47	82	37	728	268
Ferro-silicon	tonnes	2 520	3 246	4 203	4 090	4 129
Ferro-titanium and ferro-silico-titanium	tonnes	72	175	173	101	284
Ferro-vanadium	tonnes	91	134	125	93	114
Other ferro-alloys	tonnes	685	4 238	5 108	532	504
Ingots, blooms, billets	tonnes	258 743	411 534	300 224	412 924	356 345
Scrap	tonnes	269 483	230 401	113 497	93 301	115 480
Kaolin	tonnes	23 784	25 789	29 038	26 218	41 453
Lead						
Ores and concentrates	tonnes	81 307	74 810	72 008	74 199	80 553
Unwrought	tonnes	7 283	21 566	21 064	23 536	12 439
Scrap	tonnes	17 462	4 627	1 660	11 050	16 660
Magnesite and magnesia	tonnes	5 678	11 378	6 204	6 125	8 317
Manganese						
Ores and concentrates	tonnes	5	133	—	7 893	2 523
Molybdenum						
Metal	tonnes	10	193	9	3	2

## Bulgaria

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Nickel						
Unwrought (a)	tonnes	125	201	172	160	167
Crude petroleum	tonnes	5 355 541	4 999 511	5 901 767	5 726 184	5 073 523
Natural gas	tonnes	2 003 357	2 551 044	1 925 287	1 688 459	1 643 658
Phosphate rock	tonnes	455 539	570 288	535 571	410 404	577 889
Potash						
Potassic fertilisers	tonnes	7 985	3 210	9 948	15 194	8 463
Salt	tonnes	215 355	214 732	252 392	163 880	181 412
Silver						
Ores and concentrates	kilograms	91	...	...	88 200	...
Metal	kilograms	2 408	4 300	12 800	4 900	3 400
Talc	tonnes	512	985	956	960	862
Tin						
Unwrought (a)	tonnes	47	359	215	353	136
Titanium						
Titanium minerals	tonnes	506	486	735	—	26
Metal	tonnes	19	46	127	89	75
Oxides	tonnes	5 675	6 454	4 593	4 897	4 885
Tungsten						
Metal	tonnes	86	16	30	21	21
Zinc						
Ores and concentrates	tonnes	167 107	166 553	132 500	127 158	129 405
Unwrought (a)	tonnes	1 761	2 765	6 878	2 765	8 846
Zirconium						
Concentrates	tonnes	781	609	95	231	172

Note(s)

(a) Including alloys

## Croatia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	3 646 572	5 012 106	4 345 920	3 779 919	3 496 693
Bauxite	tonnes	2 300	4 800	5 690	8 220	* 8 000
Primary aluminium	tonnes	666	600	—	—	—
Gypsum	tonnes	248 675	231 008	182 557	114 450	120 055
Crude steel	tonnes	103 429	162 709	1 016	135 000	159 000
Crude petroleum	tonnes	748 791	664 440	620 835	620 795	558 327
Natural gas	million m3	2 727	2 471	2 013	1 862	1 804
Salt	tonnes	66 835	53 963	45 992	42 502	33 039
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	6 834	14 725	17 411	15 902	19 384

#### Notes

(a) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 858 348	992 712	586 991	556 143	821 856
Aluminium and bauxite						
Unwrought	tonnes	2 338	2 674	2 161	2 553	2 472
Unwrought alloys	tonnes	1 017	2 055	2 114	2 516	2 384
Scrap	tonnes	22 346	23 009	23 867	19 095	20 454
Cement						
Cement clinkers	tonnes	176 403	103 281	284 480	324 551	398 469
Portland cement	tonnes	639 236	1 189 738	897 747	1 250 523	1 260 578
Other cement	tonnes	601 470	180 836	102 405	146 025	201 659
Coal						
Hard coal	tonnes	(a) 1	156	(a) 488	(a) 10 733	(a) 20 914
Copper						
Scrap	tonnes	13 329	12 597	14 016	11 319	10 669
Gold						
Metal	kilograms	256	1 408	6 046	4 200	2 900
Waste and scrap	kilograms	...	...	...	500	1 100
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	6 526	5 254	2 368	73	131
Silicon metal	tonnes	1	...	6	3 912	5 055
Ingots, blooms, billets	tonnes	2 495	30 004	4 041	78 244	117 777
Scrap	tonnes	357 015	517 438	516 600	349 730	350 706
Lead						
Scrap	tonnes	1 697	1 842	1 906	2 051	2 051
Natural gas	tonnes	347 567	180 323	174 291	260 560	247 564
Platinum metals						
Waste and scrap	kilograms	53 996	24 958	36 441	35 000	(b)* 32 700
Potash						
Chloride	tonnes	3	212	217	1 033	77
Salt	tonnes	20 721	24 561	21 548	26 247	19 141
Silver						
Metal	kilograms	93	839	2 558	5 500	900
Sulphur and pyrites						
Sulphur	tonnes	6 565	14 256	15 801	12 917	17 107
Titanium						
Oxides	tonnes	117	172	42	519	983
Zinc						
Scrap	tonnes	518	676	764	833	1 023

#### Note(s)

(a) Including anthracite

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	926 574	1 366 197	1 689 891	1 446 658	978 064
Aluminium and bauxite						
Bauxite	tonnes	85 634	66 169	67 410	73 689	93 847
Alumina	tonnes	936	1 552	889	954	2 457
Unwrought	tonnes	50 354	45 493	54 040	38 781	21 086
Unwrought alloys	tonnes	29 270	40 783	31 807	40 502	48 986
Barytes						
Barium minerals	tonnes	710	125	2 225	1 105	847
Bentonite	tonnes	7 852	16 906	5 394	6 391	4 746
Bromine (a)	kilograms	67	120	168	22 911	45
Cement						
Cement clinkers	tonnes	967	144	44	9	2 415
Portland cement	tonnes	344 352	326 526	315 804	261 584	311 539
Other cement	tonnes	7 619	4 200	1 001	1 197	6 537
Chromium						
Metal	tonnes	419	345	404	177	14
Coal						
Anthracite	tonnes	1 325	2 332	234	2 658	4 194
Other coal	tonnes	1 111 497	1 090 562	874 882	1 178 367	956 749
Lignite	tonnes	85 413	85 316	44 423	49 158	41 246
Briquettes	tonnes	1 823	2 302	2 175	6 848	3 142
Copper						
Unwrought	tonnes	944	1 627	3 447	2 894	3 063
Diatomite	tonnes	402	555	616	598	652
Feldspar	tonnes	14 763	14 001	11 676	11 503	12 223
Fluorspar	tonnes	146	3 527	15 513	18 082	35
Gypsum						
Crude	tonnes	1 608	11 421	13 269	37 283	36 261
Calcined	tonnes	14 076	12 709	11 790	9 308	10 276
Iodine	kilograms	204	233	195	400	900
Iron ore	tonnes	(b) 20 125	2 123	(b) 2 764	1 924	1 822
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 343	14 072	12 353	13 950	12 973
Ferro-chrome	tonnes	54	61	46	25	544
Ferro-manganese	tonnes	135	546	59	361	1 027
Ferro-silico-manganese	tonnes	2 005	743	56	927	1 003
Ferro-phosphorus	tonnes	168	196	192	184	164
Ferro-silicon	tonnes	1 416	878	828	1 055	862
Other ferro-alloys	tonnes	441	262	234	26	137
Silicon metal	tonnes	95	208	347	16 466	2 295
Ingots, blooms, billets	tonnes	6 514	1 943	14 199	2 139	2 142
Scrap	tonnes	30 395	44 335	4 875	43 945	91 041
Kaolin	tonnes	10 238	11 278	8 655	9 456	8 417
Magnesite and magnesia	tonnes	1 208	1 061	710	2 019	1 083
Crude petroleum	tonnes	3 517 452	2 838 313	2 324 685	2 461 651	1 851 207
Natural gas	tonnes	587 846	579 005	971 008	1 032 104	768 131
Phosphate rock	tonnes	51 010	67 007	56 303	48 227	37 285
Potash						
Chloride	tonnes	132 471	102 879	115 375	75 526	90 036
Other potassic fertilisers	tonnes	1 749	3 717	1 314	2 233	1 402
Rare earths						
Ferro-cerium and other pyrophoric alloys	tonnes	106	133	116	52	29
Salt	tonnes	287 609	190 963	201 542	256 162	155 427
Silver						
Metal	kilograms	3 212	3 868	3 309	2 859	2 700
Sulphur and pyrites						
Sulphur	tonnes	2 877	2 752	1 503	176	395
Sulphur, sublimed and precipitated	tonnes	105	156	142	116	269
Talc	tonnes	1 813	1 578	1 774	1 989	2 739
Titanium						
Oxides	tonnes	3 000	2 911	2 194	3 257	2 954

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Zinc						
Unwrought (c)	tonnes	3 029	2 886	2 847	3 024	3 395

## Note(s)

- (a) May include some fluorine
- (b) Including burnt pyrites
- (c) Including alloys

## Cyprus

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Crushed rock	tonnes	12 981 444	11 816 397	7 308 056	4 561 152	4 039 087
Bentonite	tonnes	162 969	160 625	160 180	158 386	140 174
Cement						
Cement, clinker	tonnes	—	—	23 363	807 041	1 106 605
Cement, finished	tonnes	1 328 763	1 206 786	1 025 666	854 778	734 692
Copper, mine	tonnes (metal content)	2 595	3 660	4 328	3 631	3 088
Copper, refined	tonnes	2 595	3 660	4 328	3 631	3 088
Gypsum	tonnes	333 000	335 000	327 800	315 000	347 600

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	—	2	78	67	2
Aluminium and bauxite						
Scrap	tonnes	6 896	6 310	7 688	5 595	5 738
Bentonite	tonnes	98 803	114 923	130 413	122 699	116 581
Cement						
Cement clinkers	tonnes	—	—	6 535	739 613	963 022
Portland cement	tonnes	12 866	42 438	248 521	343 434	233 978
Copper						
Unwrought	tonnes	2 550	3 660	4 328	3 615	3 088
Scrap	tonnes	4 619	4 086	5 435	3 511	2 910
Gold						
Metal	kilograms	300	600	1 200	1 300	2 000
Gypsum						
Crude and calcined	tonnes	250 034	248 284	249 250	248 863	297 086
Iodine	kilograms	...	...	...	...	1 700
Iron, steel and ferro-alloys						
Scrap	tonnes	96 654	138 529	136 351	103 981	78 944
Lead						
Scrap	tonnes	252	465	237	1 056	1 494
Salt	tonnes	7 929	6 260	5 765	2 308	5 290
Silver						
Metal	kilograms	400	1 900	2 500	1 200	200

### Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	2 648	1 517	16 792	1 432	1 716
Aluminium and bauxite						
Unwrought (a)	tonnes	9 225	7 104	6 458	4 768	4 136
Barytes						
Barium minerals	tonnes	5	58	2	848	—
Bentonite	tonnes	4 629	142	280	6 246	4 193
Cement						
Cement clinkers	tonnes	29 579	69 780	6 498	10 100	3 307
Portland cement	tonnes	2 512	545	416	466	91
Other cement	tonnes	242	138	78	113	2 365
Coal						
Hard coal (b)	tonnes	7 714	129	164	386	5 170
Diamond						
Gem, cut	Carats	£955 000	£976 000	£921 000	£697 000	£647 000
Industrial	Carats	£1 007 000	£944 000	£1 474 000	£1 137 000	£1 779 000

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Gypsum						
Crude and calcined	tonnes	9 292	6 461	5 165	3 061	2 466
Platinum metals						
Platinum and platinum metals (c)	kilograms	* 900	* 400	* 11	* 340	* 22
Rare earths						
Cerium compounds	tonnes	24	0	16	...	—
Ferro-cerium and other pyrophoric alloys	tonnes	18	...	—	—	39
Salt	tonnes	23 836	20 998	20 470	16 683	18 724
Silver						
Metal	kilograms	1 200	2 200	500	200	300
Sulphur and pyrites						
Sulphur	tonnes	951	625	604	664	822
Talc	tonnes	307	267	133	150	172
Titanium						
Oxides	tonnes	1 299	1 141	783	621	583

## Note(s)

(a) Including alloys

(b) Including anthracite

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

## Czech Republic

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	19 327 000	21 424 000	18 785 000	17 363 000	17 668 000
Crushed rock	tonnes	37 260 000	36 717 000	32 535 000	33 004 000	35 972 000
Bentonite	tonnes	183 000	160 000	221 000	226 000	301 000
Cement						
Cement, clinker	tonnes	2 748 472	3 132 268	2 837 600	2 472 196	2 792 101
Cement, finished	tonnes	3 345 000	3 831 000	3 434 000	3 211 000	3 731 000
Coal						
Bituminous	tonnes	11 193 000	10 967 000	10 796 000	8 610 000	8 341 000
Brown coal	tonnes	43 931 000	46 848 000	43 710 000	40 585 000	38 348 000
Diatomite	tonnes	32 000	46 000	43 000	49 000	34 000
Feldspar	tonnes	388 000	407 000	445 000	411 000	422 000
Gypsum	tonnes	5 000	11 000	14 000	11 000	11 000
Pig iron	tonnes	3 987 000	4 137 000	3 935 207	4 040 000	4 152 000
Crude steel	tonnes	5 180 000	5 583 000	5 072 082	5 171 255	5 360 000
Ferro-alloys						
Ferro-vanadium	tonnes	* 3 400	* 4 600	* 5 800	* 6 400	* 6 400
Kaolin (a)	tonnes	636 000	660 000	624 000	609 000	617 000
Lead, refined	tonnes	36 000	38 000	41 000	42 000	44 000
Crude petroleum	tonnes	173 000	163 000	150 000	152 000	147 000
Natural gas	million m <sup>3</sup>	201	187	204	207	198
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	65 000	35 000	35 000	35 000	* 35 000
Uranium, mine	tonnes (metal content)	259	252	222	232	165

## Notes

(a) Beneficiated

(b) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	683 786	1 010 339	645 164	701 217	874 293
Aluminium and bauxite						
Alumina	tonnes	3 861	3 659	4 065	5 384	6 739
Unwrought (a)	tonnes	51 307	53 600	61 017	64 991	74 559
Scrap	tonnes	71 467	89 690	85 939	55 875	69 547
Bentonite	tonnes	120 859	143 788	151 474	162 165	167 979
Bismuth						
Metal	tonnes	19	3	4	8	4
Cement						
Cement clinkers	tonnes	88 236	169	10 362	1 222	96
Portland cement	tonnes	402 537	844 920	665 669	598 254	601 696
Other cement	tonnes	218 689	232	124	124	487
Chromium						
Ores and concentrates	tonnes	764	1 140	1 061	838	548
Metal	tonnes	21	103	31	149	163
Coal						
Anthracite	tonnes	1 126	3 463	3 583	4 144	4 042
Other coal	tonnes	6 443 306	6 253 274	5 368 575	4 832 928	4 288 594
Lignite	tonnes	1 019 645	1 071 038	12 779 156	1 186 782	892 800
Briquettes	tonnes	90 864	103 816	54 148	45 025	61 700
Copper						
Unwrought	tonnes	11 041	10 703	20 225	47 442	24 381
Unwrought alloys	tonnes	3 515	2 884	1 238	1 331	1 458
Scrap	tonnes	123 688	85 202	74 592	66 568	68 307
Diamond						
Gem, cut	Carats	£4 465 000	£7 709 000	£6 721 000	£5 038 000	£9 122 000
Diatomite	tonnes	4 231	5 182	6 751	7 031	8 438



## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Feldspar	tonnes	129 715	166 859	171 207	173 282	164 127
Fluorspar	tonnes	10 575	10 564	9 634	10 722	9 683
Gold						
Metal	kilograms	12 000	21 400	5 300	82 100	7 600
Waste and scrap	kilograms	4 400	2 700	11 700	1 500	4 400
Graphite	tonnes	3 154	3 417	3 108	2 673	2 980
Gypsum						
Crude	tonnes	48 605	103 363	63 751	70 706	88 861
Calcined	tonnes	5 235	3 448	3 537	3 421	2 983
Iodine	kilograms	1 000	2 000	4 000	5 300	1 400
Iron ore	tonnes	8	984	1 097	1 796	12 210
Iron, steel and ferro-alloys						
Pig iron	tonnes	65 473	45 677	82 769	82 515	42 910
Sponge and powder	tonnes	...	163	46	932	1 132
Ferro-chrome	tonnes	...	2 346	2 329	2 688	2 130
Ferro-manganese	tonnes	...	1 704	1 776	2 107	1 780
Ferro-silico-manganese	tonnes	...	1 754	2 819	4 676	2 188
Ferro-molybdenum	tonnes	...	549	1 870	2 658	223
Ferro-phosphorus	tonnes	...	40	10	92	168
Ferro-silicon	tonnes	9 806	7 354	7 571	10 533	5 939
Ferro-vanadium	tonnes	3 440	4 603	5 737	6 368	6 013
Other ferro-alloys	tonnes	23 873	339	507	766	371
Ingots, blooms, billets	tonnes	320 821	356 146	292 066	259 268	283 542
Scrap	tonnes	1 814 398	2 011 915	2 042 131	1 908 593	2 061 990
Kaolin	tonnes	485 203	537 962	507 689	504 179	504 690
Lead						
Unwrought	tonnes	32 743	27 649	23 614	27 893	35 027
Scrap	tonnes	1 914	2 357	1 157	1 139	1 476
Magnesite and magnesia	tonnes	3 809	7 096	5 997	4 690	3 675
Manganese						
Ores and concentrates	tonnes	—	50	383	65	32
Mica	tonnes	96	163	212	82	56
Molybdenum						
Oxides	tonnes	25	25	20	214	221
Nickel						
Unwrought (a)	tonnes	126	272	725	1 668	1 151
Oxides	tonnes	341	338	380	289	259
Scrap	tonnes	4 558	3 427	6 851	6 560	3 125
Crude petroleum	tonnes	18 239	18 685	21 470	24 673	26 518
Natural gas	tonnes	1 318 872	1 115 748	1 034 568	965 421	1 578 834
Platinum metals						
Platinum and platinum metals	kilograms	6 800	2 900	2 800	3 500	130 700
Waste and scrap	kilograms	—	15 300	—	4 600	—
Potash						
Potassic fertilisers	tonnes	4 235	4 780	3 839	3 320	4 279
Rare earths						
Rare earth compounds	tonnes	6	2	—	2	4
Salt	tonnes	51 289	41 658	25 883	80 306	26 498
Silver						
Ores and concentrates	kilograms	990 205	3	2	2	3 648
Metal	kilograms	74 600	399 700	187 000	432 800	215 100
Sulphur and pyrites						
Sulphur	tonnes	12 124	980	1 852	9 195	7 084
Sulphur, sublimed and precipitated	tonnes	330	260	183	44	69
Talc	tonnes	169	298	214	270	375
Tantalum and niobium						
Tantalum	tonnes	95	110	86	118	121
Tin						
Unwrought (a)	tonnes	276	18	868	1 995	976
Scrap	tonnes	44	167	191	102	81
Titanium						
Titanium minerals	tonnes	2 378	504	684	758	761
Metal	tonnes	358	264	384	368	725
Oxides	tonnes	45 842	45 437	43 174	45 164	51 595

## Czech Republic

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Tungsten						
Ores and concentrates	tonnes	...	...	...	20	45
Metal	tonnes	211	611	1 011	1 110	1 122
Carbide	tonnes	803	903	863	949	1 174
Zinc						
Unwrought (a)	tonnes	5 148	5 147	7 407	13 112	61 347
Scrap	tonnes	4 798	4 189	4 432	3 364	3 276

## Note(s)

(a) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	353 419	357 455	352 553	405 141	740 057
Aluminium and bauxite						
Bauxite	tonnes	33 794	32 556	27 514	24 765	56 797
Alumina	tonnes	7 407	7 980	7 682	9 089	10 222
Alumina hydrate	tonnes	9 547	10 052	8 851	9 574	9 478
Unwrought	tonnes	76 945	84 560	77 128	71 737	58 878
Unwrought alloys	tonnes	135 648	153 819	141 484	166 166	208 080
Scrap	tonnes	61 802	86 969	103 385	81 351	74 357
Antimony						
Metal	tonnes	75	64	31	42	103
Oxide	tonnes	379	356	411	367	375
Barytes						
Barium minerals	tonnes	7 004	7 431	7 008	6 525	7 783
Bentonite	tonnes	18 472	48 326	51 865	54 095	70 095
Bismuth						
Metal	tonnes	106	264	110	101	110
Cadmium						
Oxide	tonnes	464	487	439	415	380
Cement						
Cement clinkers	tonnes	121 682	44 577	86 089	141 404	203 640
Portland cement	tonnes	702 257	765 382	638 364	593 385	503 497
Other cement	tonnes	48 336	31 074	26 875	9 941	8 143
Chromium						
Ores and concentrates	tonnes	7 986	7 986	8 413	6 897	6 974
Metal	tonnes	514	139	147	218	307
Coal						
Anthracite	tonnes	24 471	95 762	121 247	183 417	88 545
Other coal	tonnes	2 016 443	2 286 190	1 833 669	1 940 720	3 019 631
Lignite	tonnes	49 426	91 889	350 322	304 216	1 358 543
Briquettes	tonnes	137 933	157 513	156 682	167 695	135 442
Cobalt						
Metal	tonnes	60	74	77	83	89
Oxides	tonnes	20	20	32	57	38
Copper						
Unwrought	tonnes	6 846	6 252	16 354	29 583	12 923
Unwrought alloys	tonnes	3 674	3 388	1 867	2 400	2 663
Scrap	tonnes	11 804	18 859	18 874	14 107	9 449
Diamond						
Gem, cut	Carats	5 567	6 796	* 10 000	* 7 000	* 6 000
Dust	Carats	£1 704 000	£1 954 000	£2 057 000	£2 229 000	£1 873 000
Diatomite	tonnes	2 753	3 263	3 829	3 694	6 927
Feldspar	tonnes	6 298	6 527	4 735	5 920	5 575
Fluorspar	tonnes	14 495	15 547	15 388	17 129	13 911
Gold						
Metal	kilograms	2 600	23 800	3 600	5 500	5 100
Waste and scrap	kilograms	84 000	192 500	245 400	12 200	14 800
Graphite	tonnes	3 605	5 149	4 757	5 588	4 965

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Gypsum						
Crude	tonnes	55 096	57 962	49 245	42 413	48 453
Calcined	tonnes	33 763	34 353	33 209	34 644	54 348
Iodine	kilograms	35 100	36 500	22 600	16 400	15 800
Iron ore	tonnes	(a) 5 902 011	(a) 7 363 983	(a) 5 870 744	(a) 6 268 042	6 303 298
Iron, steel and ferro-alloys						
Pig iron	tonnes	54 625	76 416	67 036	65 101	71 319
Sponge and powder	tonnes	15 391	24 059	18 754	13 440	11 099
Ferro-chrome	tonnes	16 962	10 933	9 658	18 172	19 509
Ferro-silico-magnesium	tonnes	820	1 061	699	530	596
Ferro-manganese	tonnes	26 204	25 281	24 826	22 787	26 649
Ferro-silico-manganese	tonnes	40 732	41 411	39 572	45 720	45 457
Ferro-molybdenum	tonnes	1 868	2 401	3 415	3 962	2 106
Ferro-nickel	tonnes	96	136	47	380	48
Ferro-niobium	tonnes	275	310	360	295	250
Ferro-phosphorus	tonnes	645	650	451	521	646
Ferro-silicon	tonnes	31 908	33 418	29 475	31 596	28 820
Ferro-titanium and ferro-silico-titanium	tonnes	239	317	212	173	112
Ferro-vanadium	tonnes	482	472	526	935	637
Other ferro-alloys	tonnes	3 012	2 749	2 358	2 316	2 643
Silicon metal	tonnes	5 805	5 809	4 910	6 325	6 437
Ingots, blooms, billets	tonnes	651 182	322 206	352 697	358 780	289 266
Scrap	tonnes	410 647	472 576	475 327	551 957	568 675
Kaolin	tonnes	14 125	19 352	17 045	15 815	16 757
Lead						
Unwrought	tonnes	81 762	36 233	60 258	104 236	125 855
Scrap	tonnes	2 901	2 763	2 560	4 177	4 889
Magnesite and magnesia						
Magnesite	tonnes	7 108	4 578	5 270	3 386	1 837
Magnesia	tonnes	38 862	40 975	43 235	46 261	58 249
Manganese						
Ores and concentrates	tonnes	25 758	28 810	335	14 189	18 671
Metal	tonnes	984	907	521	629	746
Mercury	kilograms	2 561	6 651	3 842	3 783	20 046
Mica	tonnes	2 513	740	915	604	901
Molybdenum						
Metal	tonnes	82	104	57	64	69
Nickel						
Unwrought (b)	tonnes	2 560	3 748	3 761	2 368	5 757
Oxides	tonnes	393	399	307	298	307
Scrap	tonnes	1 257	178	1 311	1 016	470
Crude petroleum	tonnes	7 770 418	6 968 871	7 024 223	6 630 606	7 313 020
Natural gas	tonnes	7 471 522	7 175 884	5 652 749	6 622 377	5 413 601
Phosphate rock	tonnes	9 917	13 163	21	35	37
Platinum metals						
Platinum	kilograms	25 000	2 100	13 100	1 200	1 400
Platinum metals	kilograms	17 700	100	100	300	500
Waste and scrap	kilograms	7 835	54 300	169 600	189 400	54 800
Potash						
Chloride	tonnes	82 710	87 248	75 651	72 531	90 502
Other potassic fertilisers	tonnes	4 773	3 410	3 377	4 381	3 931
Rare earths						
Metals	tonnes	13	35	2	...	1
Rare earth compounds	tonnes	131	117	344	190	274
Ferro-cerium and other pyrophoric alloys	tonnes	6	2	1	1	1
Salt	tonnes	958 474	858 980	560 186	1 046 589	382 879
Sillimanite minerals						
Sillimanite minerals	tonnes	3 682	4 089	4 132	7 867	4 919
Mullite	tonnes	758	818	606	1 142	713
Silver						
Ores and concentrates	kilograms	990 200	—	—	—	—
Metal	kilograms	136 000	1 635 700	993 700	865 000	150 100
Sulphur and pyrites						
Pyrites	tonnes	250	247	384	366	368
Sulphur	tonnes	14 762	14 945	70 008	54 000	62 706
Sulphur, sublimed and precipitated	tonnes	82 355	93 289	39 459	27 870	28 056

## Czech Republic

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Talc	tonnes	9 570	12 686	8 827	9 735	14 617
Tantalum and niobium						
Tantalum	tonnes	265	222	175	224	246
Tin						
Unwrought	tonnes	319	479	478	353	707
Unwrought alloys	tonnes	130	172	153	882	334
Titanium						
Titanium minerals	tonnes	155 485	146 778	98 071	100 317	107 926
Metal	tonnes	779	1 333	1 717	1 884	1 956
Oxides	tonnes	8 857	9 372	7 763	8 863	10 398
Tungsten						
Ores and concentrates	tonnes	...	314	799	100	6
Metal	tonnes	677	367	968	506	437
Carbide	tonnes	150	219	88	198	723
Vanadium						
Pentoxide	tonnes	5 255	7 004	8 672	9 478	9 202
Zinc						
Unwrought	tonnes	15 121	17 137	19 064	21 687	65 712
Unwrought alloys	tonnes	11 653	10 590	11 947	8 524	8 852
Scrap	tonnes	900	909	583	177	161
Zirconium						
Concentrates	tonnes	303	955	595	682	767
Metal	tonnes	37	34	24	46	187

## Note(s)

(a) Including burnt pyrites

(b) Including alloys

## Denmark

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	33 978 000	42 878 000	39 332 000	* 38 000 000	35 761 666
Crushed rock	tonnes	240 000	337 000	293 000	243 000	223 000
Bentonite	tonnes	23 832	38 300	30 330	56 355	66 388
Cement						
Cement, clinker	tonnes	3 819	25	24 256	—	9 081
Cement, finished	tonnes	1 566 624	1 852 804	1 817 334	1 852 445	1 876 095
Diatomite						
Moler (a)	tonnes	124 000	126 000	111 000	128 125	118 750
Crude petroleum	tonnes	12 090 000	10 909 000	9 968 000	8 657 000	8 159 150
Natural gas	million m <sup>3</sup>	7 792	6 262	5 480	4 566	4 502
Salt	tonnes	601 046	* 595 000	* 590 000	580 000	* 580 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	3 246	3 045	3 925	3 599	4 435

## Notes

(1) Denmark is also believed to produce kaolin

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

(b) From petroleum refining and/or natural gas

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	907 149	961 853	1 224 741	1 433 979	1 612 849
Aluminium and bauxite						
Bauxite	tonnes	3 279	6 769	9 432	4 600	386
Alumina	tonnes	4 661	4 958	5 879	4 709	6 863
Unwrought alloys	tonnes	9 515	7 382	7 440	7 896	6 579
Scrap	tonnes	73 402	67 000	73 392	73 142	82 766
Barytes						
Barium minerals	tonnes	(a)* 50	(a)* 1 300	(a)* 300	(a)* 700	1 111
Bentonite	tonnes	13 787	13 827	17 711	20 620	36 421
Cement						
Cement clinkers	tonnes	11 884	2 689	24 658	598	10 929
Portland cement	tonnes	731 730	813 938	767 554	754 399	781 786
Other cement	tonnes	3 860	4 175	4 565	4 574	5 580
Chromium						
Metal	tonnes	1 056	601	548	427	505
Coal						
Hard coal	tonnes	61 612	153 532	(b) 10 585	(b) 80 771	(b) 166 259
Copper						
Scrap	tonnes	30 006	33 289	27 276	29 167	32 745
Diamond						
Unsorted	Carats	...	2 875 000	60 000	—	—
Gem, cut	Carats	520 000	545 000	360 000	3 500 000	2 500 000
Industrial	Carats	90 000	125 000	55 000	65 000	—
Dust	Carats	7 625 000	24 850 000	18 500 000	10 000	—
Diatomite (a)	tonnes	* 57 300	* 56 800	* 42 700	* 55 700	* 57 000
Gold						
Metal	kilograms	761	1 224	1 556	5 560	1 000
Waste and scrap	kilograms	500	1 800	3 000	1 300	300
Gypsum						
Crude	tonnes	2 211	63	5 155	126	15
Calcined	tonnes	8 299	6 725	13 990	1 748	1 603

## Denmark

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	239	1 102	1 681	674	579
Ferro-silicon	tonnes	77	164	1 043	602	197
Other ferro-alloys	tonnes	54	43	48	52	146
Ingots, blooms, billets	tonnes	19 143	21 926	21 050	21 075	16 654
Scrap	tonnes	1 596 485	1 554 808	1 359 467	1 245 646	1 690 566
Kaolin	tonnes	607	1 370	1 489	1 245	966
<b>Lead</b>						
Unwrought	tonnes	896	478	588	1 375	1 095
Scrap	tonnes	3 485	4 118	4 167	5 165	6 160
<b>Magnesite and magnesia</b>						
Magnesia	tonnes	522	497	179	437	376
<b>Nickel</b>						
Scrap	tonnes	1 765	1 244	590	314	278
Crude petroleum	tonnes	7 363 518	6 899 354	5 896 071	6 000 228	4 157 006
Natural gas (a)	tonnes	* 1 044 000	* 836 000	* 729 000	* 1 527 000	* 905 000
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	200	100	200	600	300
<b>Potash</b>						
Chloride	tonnes	69	2 123	2 579	2 628	5 425
Other potassic fertilisers	tonnes	683	8 898	7 664	5 891	5 202
Salt	tonnes	319 317	296 459	391 879	324 030	370 885
<b>Silver</b>						
Ores and concentrates	kilograms	...	422 100	1 533 800	645 100	874 600
Metal	kilograms	30 300	53 800	30 100	29 700	147 400
<b>Sulphur and pyrites</b>						
Sulphur	tonnes	12	39	4 814	14 543	46
Talc	tonnes	409	235	235	188	105
<b>Tin</b>						
Unwrought	tonnes	1	208	81	98	141
Scrap	tonnes	35	71	69	36	147
<b>Titanium</b>						
Metal	tonnes	196	125	194	193	316
Oxides	tonnes	820	5 792	10 732	10 385	10 131
<b>Tungsten</b>						
Metal	tonnes	113	118	32	12	58
<b>Zinc</b>						
Unwrought (c)	tonnes	318	635	789	1 060	727
Scrap	tonnes	2 563	2 468	2 617	2 271	2 565

## Note(s)

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

(b) Including anthracite

(c) Including alloys

**Imports**

Commodity	Units	2010	2011	2012	2013	2014
<b>Primary aggregates</b>						
<b>Aluminium and bauxite</b>						
Bauxite	tonnes	8 364	9 112	7 515	10 371	4 677
Alumina	tonnes	22 484	21 012	25 210	28 552	29 012
Unwrought	tonnes	523	742	2 730	19 795	33 056
Unwrought alloys	tonnes	78 956	85 315	75 066	34 687	24 821
Scrap	tonnes	5 175	5 891	5 267	13 785	6 419
<b>Barytes</b>						
Barium minerals	tonnes	17 749	20 497	8 262	16 259	11 217
Bentonite	tonnes	43 049	34 130	41 931	38 382	42 097
<b>Cement</b>						
Cement clinkers	tonnes	23 732	29 888	24 464	25 822	27 510
Portland cement	tonnes	180 249	244 007	211 379	209 012	208 431
Other cement	tonnes	38 797	19 941	19 569	15 876	19 652

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Chromium						
Ores and concentrates	tonnes	463	579	866	833	1 252
Coal						
Anthracite	tonnes	(b)* 21 000	(b)* 6 000	(b)* 6 000	7	308
Other coal	tonnes	3 670 544	(b)* 7 107 000	(b)* 3 827 000	(b)* 4 516 000	(b)* 4 465 000
Briquettes	tonnes	7 554	14 768	4 106	3 522	675
Cobalt						
Oxides	tonnes	19	42	16	0	5
Copper						
Unwrought	tonnes	1 978	2 255	1 692	2 039	1 980
Scrap	tonnes	9 125	9 075	7 547	9 477	7 800
Diamond						
Unsorted	Carats	£255 000	£82 000	£18 000	£94 000	£234 000
Gem, cut	Carats	£5 339 000	£5 884 000	£8 897 000	£11 316 000	£13 671 000
Industrial	Carats	£59 000	£88 000	£137 000	£105 000	£143 000
Dust	Carats	1 663 715	1 189 540	1 205 000	1 360 000	1 630 000
Diatomite	tonnes	3 294	4 165	3 056	2 998	2 181
Feldspar	tonnes	1 211	2 612	45	2	1 259
Fluorspar	tonnes	13 086	22 462	16 043	11 860	8 258
Gold						
Metal	kilograms	2 065	101 814	2 037	49 186	45 810
Graphite	tonnes	303	405	424	335	256
Gypsum						
Crude	tonnes	53 577	97 219	133 652	85 185	106 959
Calcined	tonnes	42 290	21 696	79 529	34 987	13 311
Iodine	kilograms	10 168	5 895	8 447	11 900	14 100
Iron ore (c)	tonnes	39 494	49 605	49 005	39 879	28 723
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 263	17 316	17 014	18 760	18 331
Sponge and powder	tonnes	3 229	3 586	8 505	28 389	37 989
Ferro-silico-magnesium	tonnes	114	8	32	89	79
Ferro-manganese	tonnes	139	121	248	151	96
Ferro-silicon	tonnes	2 864	3 328	3 655	3 010	3 197
Other ferro-alloys	tonnes	149	98	87	189	202
Ingots, blooms, billets	tonnes	538 503	609 342	420 037	554 999	557 183
Scrap	tonnes	337 192	242 848	208 231	322 275	241 463
Kaolin	tonnes	37 007	37 755	53 815	26 349	12 360
Lead						
Scrap	tonnes	2 890	1 989	2 655	2 601	3 188
Lithium						
Carbonate	tonnes	340	358	80	63	63
Magnesite and magnesia						
Magnesite	tonnes	2 728	2 299	1 784	2 000	722
Magnesia	tonnes	4 636	4 927	5 219	4 187	3 705
Manganese						
Ores and concentrates	tonnes	257	1 051	352	566	804
Mica	tonnes	237	150	148	185	165
Molybdenum						
Oxides	tonnes	418	253	345	570	644
Nickel						
Scrap	tonnes	382	234	227	303	182
Crude petroleum	tonnes	2 562 669	2 625 412	3 150 386	4 274 735	3 344 297
Natural gas	tonnes	103 236	198 423	315 464	419 357	197 175
Platinum metals						
Platinum and platinum metals	kilograms	2 300	1 367	500	1 600	200
Potash						
Sulphate	tonnes	1 910	9 335	11 225	15 644	20 544
Chloride	tonnes	36 608	42 472	30 823	41 611	63 047
Other potassic fertilisers	tonnes	14 967	8 473	4 816	3 951	10 403
Rare earths						
Cerium compounds	tonnes	15	16	19	16	8
Other rare earth compounds	tonnes	19	6	3	20	* 20
Salt	tonnes	762 420	907 135	351 217	715 813	299 129
Sillimanite minerals						
Sillimanite minerals	tonnes	1 124	792	386	1 338	1 276
Mullite	tonnes	3 199	2 590	1 714	1 639	2 239

## Denmark

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Silver						
Metal	kilograms	620 284	160 312	132 719	381 138	283 638
Sulphur and pyrites						
Sulphur	tonnes	7 051	6 123	4 173	4 339	4 253
Talc	tonnes	7 013	6 276	6 883	6 469	6 025
Tin						
Unwrought (a)	tonnes	110	136	195	173	170
Titanium						
Metal	tonnes	674	1 723	1 948	1 036	1 255
Oxides	tonnes	20 427	23 296	17 706	20 220	22 668
Zinc						
Unwrought	tonnes	4 427	6 023	6 877	6 968	6 605
Unwrought alloys	tonnes	1 310	954	923	1 343	1 239

## Note(s)

(a) Including alloys

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

(c) Including burnt pyrites



## Estonia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	3 469 220	3 568 680	3 954 600	5 201 380	5 078 160
Crushed rock	tonnes	5 849 600	5 919 500	6 170 200	6 463 100	5 909 000
Cement						
Cement, clinker	tonnes	537 000	719 000	714 600	691 400	721 000
Cement, finished	tonnes	375 000	451 000	481 500	456 700	447 000
Crude steel	tonnes	—	1	185	157	200
Lead, refined	tonnes	7 200	7 800	8 046	7 581	8 588
Crude petroleum (a)	tonnes	2 080 000	2 173 132	2 180 313	2 379 253	2 359 463

#### Notes

(a) From oil shale

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	810 298	745 353	689 854	625 329	636 548
Aluminium and bauxite						
Bauxite	tonnes	...	29 492	23 317	...	...
Unwrought (a)	tonnes	4 132	52	1 220	1 090	1 014
Scrap	tonnes	65 948	63 880	11 342	10 523	10 323
Antimony						
Metal	tonnes	67	113	...	—	—
Cadmium						
Metal	tonnes	...	...	564	378	386
Cement						
Cement clinkers	tonnes	222 190	426 994	347 754	346 684	363 908
Portland cement	tonnes	148 505	186 255	208 131	202 614	193 939
Other cement	tonnes	488	752	1 107	3	28
Coal						
Hard coal	tonnes	(b) 16 452	(b) 2 312	(b) 741	1	0
Copper						
Unwrought	tonnes	1 790	744	2 386	860	854
Scrap	tonnes	6 915	5 171	5 549	5 820	5 733
Gold						
Metal	kilograms	400	2 300	1 600	2 300	1 500
Gypsum						
Crude and calcined	tonnes	87	105	1 781	1 282	956
Iodine	kilograms	...	...	...	15 000	10 400
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	...	...	36	45	108
Ferro-titanium and ferro-silico-titanium	tonnes	...	...	502	1 641	7 480
Other ferro-alloys	tonnes	124	142	474	489	270
Scrap	tonnes	512 766	563 124	631 831	517 330	424 235
Kaolin	tonnes	878	830	1 019	352	591
Lead						
Unwrought	tonnes	10 624	11 513	11 042	10 334	10 739
Molybdenum						
Ores and concentrates	tonnes	40	80	180	848	260
Nickel						
Unwrought	tonnes	(a) 2	2	539	(a) 2	(a) 24
Scrap	tonnes	0	536	144	20	—
Crude petroleum	tonnes	—	1 062	3 124	12 056	11 532
Platinum metals						
Platinum and platinum metals	kilograms	...	—	654	500	—
Waste and scrap	kilograms	7 700	9 100	8 800	103 800	133 700
Potash						
Potassic fertilisers	tonnes	48	693	242	131	2

## Estonia

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Rare earths						
Metals	tonnes	1	0	42	77	—
Rare earth compounds	tonnes	1 686	1 124	3 210	3 482	2 802
Salt	tonnes	2 055	3 685	2 968	4 383	4 956
Silver						
Metal	kilograms	200	4 600	1 600	1 400	900
Sulphur and pyrites						
Sulphur	tonnes	45	621	—	—	—
Tantalum and niobium						
Tantalum	tonnes	34	76	49	24	38
Tin						
Scrap	tonnes	120	56	121	276	143
Titanium						
Metal	tonnes	26	33	23	41	58
Oxides	tonnes	49	164	468	396	44
Tungsten						
Metal	tonnes	1	...	61	4	—

## Note(s)

(a) Including alloys

(b) Including anthracite

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 395 122	1 302 589	1 215 348	1 308 292	1 197 158
Aluminium and bauxite						
Unwrought (a)	tonnes	3 176	2 231	2 811	902	907
Scrap	tonnes	4 495	2 488	488	250	349
Bentonite	tonnes	3 352	2 937	2 670	2 958	3 294
Cement						
Cement clinkers	tonnes	13 474	(b)* 1 800	4 688	4 526	5 132
Portland cement	tonnes	36 354	52 807	27 404	34 852	42 847
Other cement	tonnes	827	1 545	13 043	31 565	42 817
Coal						
Hard coal (c)	tonnes	77 300	89 422	81 082	58 945	82 302
Copper						
Unwrought	tonnes	520	484	1 480	395	129
Scrap	tonnes	391	335	508	801	2 001
Feldspar	tonnes	94	109	17 881	2 477	88
Gold						
Metal	kilograms	900	1 600	900	3 200	1 600
Gypsum						
Crude	tonnes	11 295	11 922	16 772	13 952	24 475
Calcined	tonnes	8 950	8 343	7 718	8 328	7 892
Iodine	kilograms	13 157	258	39	5 024	10 400
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	182	64	85	52	126
Ferro-niobium	tonnes	438	374	411	410	462
Ferro-silicon	tonnes	21	149	61	83	103
Ferro-titanium and ferro-silico-titanium	tonnes	...	...	11	500	2 984
Other ferro-alloys	tonnes	31	15	17	51	89
Scrap	tonnes	8 434	12 230	8 305	25 634	103 833
Kaolin	tonnes	881	211	8 568	3 090	3 326
Magnesite and magnesia						
Magnesia	tonnes	297	382	380	528	596
Manganese						
Metal	tonnes	576	85	—	71	24
Natural gas	tonnes	491 806	478 288	452 299	535 232	382 921
Platinum metals						
Waste and scrap	kilograms	...	...	—	59 600	114 500

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Potash						
Chloride	tonnes	1 517	1 898	2 438	3 120	4 669
Other potassic fertilisers	tonnes	57	1 491	1 960	372	1 047
Rare earths						
Cerium compounds	tonnes	24	501	545	300	235
Other rare earth compounds	tonnes	2 105	3 616	4 499	4 494	6 057
Salt	tonnes	73 254	85 105	73 248	43 617	65 197
Silver						
Metal	kilograms	3 200	5 000	1 700	3 700	1 800
Sulphur and pyrites						
Sulphur	tonnes	1	2	1 344	1 224	1 487
Talc	tonnes	373	451	429	467	361
Tantalum and niobium						
Tantalum	tonnes	37	20	1	—	8
Titanium						
Metal	tonnes	82	5	683	2 229	3 985
Oxides	tonnes	1 409	1 724	1 921	1 808	1 312
Zinc						
Unwrought (a)	tonnes	5 978	8 887	4 987	664	705

## Note(s)

(a) Including alloys

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

(c) Including anthracite

## Finland

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	* 36 000 000	* 36 000 000	* 34 000 000	* 34 000 000	* 32 000 000
Crushed rock	tonnes	* 48 000 000	* 53 000 000	* 54 000 000	* 49 000 000	* 47 000 000
Cement						
Cement, finished (a)	tonnes	1 215 244	1 387 479	1 292 855	1 271 378	1 255 468
Chromium (b)	tonnes	598 000	692 527	425 217	981 752	1 034 750
Cobalt, mine	tonnes (metal content)	* 140	480	* 1 381	2 061	2 104
Cobalt, metal	tonnes	9 429	10 627	10 562	10 798	12 551
Copper, mine	tonnes (metal content)	14 700	14 000	25 446	38 763	42 790
Copper, smelter	tonnes	120 528	124 360	129 256	135 840	146 542
Copper, refined	tonnes	112 687	124 360	129 256	135 840	146 542
Feldspar	tonnes	28 013	26 292	43 124	47 636	46 233
Germanium	tonnes	12	12	16	17	17
Gold	kilograms	5 896	6 674	9 100	8 660	8 085
Pig iron	tonnes	2 564 000	2 600 000	2 461 000	2 100 000	2 500 000
Crude steel	tonnes	4 029 000	3 989 000	3 759 000	3 517 000	3 808 000
Ferro-alloys						
Ferro-chrome	tonnes	238 000	231 000	229 000	434 000	441 000
Mercury	kilograms	9 000	5 000	—	—	—
Mica	tonnes	13 809	12 896	12 112	11 244	11 973
Nickel, mine	tonnes (metal content)	12 100	18 244	19 073	18 560	19 700
Nickel, smelter/refinery	tonnes	49 772	49 823	46 275	44 498	42 750
Phosphate rock	tonnes	817 289	869 694	858 005	877 189	946 234
Platinum metals	kilograms					
Platinum	kilograms (metal content)	—	—	429	946	1 060
Palladium	kilograms (metal content)	—	—	379	766	808
Selenium metal	tonnes	73	86	93	72	94
Silver	kilograms (metal content)	11 020	11 160	10 479	14 226	12 830
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	250 000	338 000	375 000	347 000	353 000
Recovered (c)	tonnes (sulphur content)	269 449	319 971	329 831	315 958	336 168
Recovered (d)	tonnes (sulphur content)	122 000	133 300	121 700	130 000	* 130 000
Talc	tonnes	419 345	429 494	396 332	361 840	380 821
Wollastonite	tonnes	12 100	11 500	* 11 500	* 11 500	* 11 500
Zinc, mine	tonnes (metal content)	55 562	64 115	52 200	41 124	46 100
Slab zinc	tonnes	307 144	307 352	314 742	311 686	302 000

#### Notes

(1) Finland is believed to produce arsenic

(a) Sales

(b) Concentrates

(c) From metal sulphide processing

(d) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 396 025	2 020 822	953 926	712 702	772 390
Aluminium and bauxite						
Unwrought alloys	tonnes	15 346	11 289	14 185	15 200	15 107
Scrap	tonnes	33 304	38 862	43 221	48 252	51 067
Bentonite	tonnes	0	61	27	123	540
Bromine	kilograms	...	22 200	—	—	—
Cement						
Portland cement	tonnes	373	92	6	1 172	191
Chromium						
Ores and concentrates	tonnes	8 291	5 231	4 575	3 424	148
Metal	tonnes	1 813	2 366	1 950	2 542	174

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Coal						
Hard coal (a)	tonnes	12	32	0	5 270	21
Cobalt						
Metal (b)	tonnes	* 3 900	* 4 200	* 6 000	* 5 300	* 6 400
Oxides (b)	tonnes	* 5 400	* 6 400	* 4 300	* 5 200	* 4 900
Copper						
Matte and cement	tonnes	...	19 610	18 588	28 640	31 335
Unwrought, unrefined	tonnes	35 132	24 908	29 714	21 400	6 903
Unwrought, refined (c)	tonnes	58 273	41 887	60 197	60 041	78 185
Scrap	tonnes	32 819	33 714	32 739	28 583	27 150
Diamond						
Dust	Carats	...	20 000	35 000	105 000	10 000
Feldspar	tonnes	31 844	31 700	47 889	42 359	94 084
Gold						
Metal	kilograms	4 168	4 970	2 841	639	374
Waste and scrap	kilograms	878	1 268	88 389	1 243	954
Iron ore						
Iron ore	tonnes	298 912	(b)* 700 000	(b)* 1 200 000	(b)* 1 700 000	(b)* 2 521 000
Burnt pyrites	tonnes	391 549	(b)* 80 000	(b)* 30 000	(b)* 13 000	(b)* 56 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 564	373	14 459	5 780	163
Ferro-chrome	tonnes	126 713	97 322	104 829	283 425	270 570
Other ferro-alloys	tonnes	560	211	217	202	171
Ingots, blooms, billets	tonnes	263 863	219 129	127 904	49 814	75 696
Scrap	tonnes	229 680	341 937	361 107	402 310	405 112
Kaolin	tonnes	18 176	30 760	40 550	38 900	37 761
Lead						
Scrap	tonnes	340	328	1 231	1 895	2 576
Magnesite and magnesia						
Magnesite	tonnes	11	—	—	—	12 275
Manganese						
Metal	tonnes	32	25	2	1	1 179
Mercury	kilograms	9 321	4 830	—	—	—
Mica	tonnes	11 377	8 636	9 242	11 073	7 909
Nickel						
Ores and concentrates	tonnes	8 946	23 411	55 260	139 017	103 378
Mattes, sinters etc	tonnes	...	7 732	13 387	9 473	0
Unwrought	tonnes	(c) 31 275	(c) 39 472	36 364	36 113	(c) 34 617
Oxides (b)	tonnes	* 500	* 200	* 200	* 150	* 140
Scrap	tonnes	323	33	39	130	416
Natural gas	tonnes	9 052	4 729	34	34	—
Phosphate rock	tonnes	52 006	117 304	43 597	—	57 295
Platinum metals						
Platinum and platinum metals	kilograms	6 238	6 684	3 927	8 475	2 044
Waste and scrap	kilograms	723	75	454	37 096	51 332
Potash						
Sulphate	tonnes	53 850	* 61 000	* 75 000	* 72 000	* 77 000
Rare earths						
Rare earth compounds	tonnes	44	67	0	84	86
Salt	tonnes	11 380	1 370	401	935	1 407
Silver						
Ores and concentrates	kilograms	(b)* 70	46	(b)* 100	...	602 054
Metal	kilograms	1 162	1 336	1 084	3 058	1 839
Sulphur and pyrites						
Pyrites (b)	tonnes	* 198 000	* 460 000	* 520 000	* 316 000	* 718 000
Sulphur	tonnes	2 715	2 404	2 871	(b)* 80	(b)* 200
Talc (b)	tonnes	* 222 000	* 259 000	* 249 000	* 243 000	* 262 000
Tin						
Scrap	tonnes	142	139	171	186	76
Titanium						
Titanium minerals	tonnes	1	0	...	171	3 017
Oxides (b)	tonnes	* 88 000	* 80 000	* 66 000	* 83 000	* 78 000
Tungsten						
Metal	tonnes	450	588	480	643	775

## Finland

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Zinc						
Ores and concentrates	tonnes	22 479	50 656	39 555	29 613	15 395
Unwrought (c)	tonnes	266 738	265 686	271 313	272 632	263 422
Scrap	tonnes	1 369	1 215	1 066	935	80

## Note(s)

(a) Including anthracite

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

(c) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	284 066	52 920	96 804	137 333	126 704
Aluminium and bauxite						
Bauxite	tonnes	9 294	3 036	1 328	3 168	3 504
Alumina	tonnes	2 401	2 422	2 479	3 057	2 571
Alumina hydrate	tonnes	29 607	25 676	22 996	26 702	34 704
Unwrought	tonnes	2 008	2 070	1 596	1 691	2 091
Unwrought alloys	tonnes	37 539	37 589	32 897	33 081	36 068
Scrap	tonnes	15 466	15 803	14 080	14 731	14 880
Barytes						
Barium minerals	tonnes	4 406	4 383	4 101	3 988	4 847
Bentonite	tonnes	16 293	21 194	24 913	26 294	26 397
Bromine	kilograms	318 478	322 231	441 332	371 829	345 578
Cement						
Cement clinkers	tonnes	14 191	16 790	7 512	2 912	1 368
Portland cement	tonnes	587 410	549 673	498 577	401 067	422 293
Other cement	tonnes	10 202	16 408	13 870	20 606	20 825
Chromium						
Ores and concentrates	tonnes	9 197	20 853	9 372	3 726	2 527
Metal	tonnes	139	194	139	94	137
Coal						
Hard coal (a)	tonnes	5 919 757	6 972 540	3 954 916	5 064 181	5 436 916
Cobalt						
Ore	tonnes	9 867	8 994	7 477	5 352	3 237
Metal	tonnes	30 623	53 059	54 106	39 435	66 293
Oxides	tonnes	233	172	298	154	26
Copper						
Ores and concentrates	tonnes	458 174	415 365	424 982	391 822	423 149
Unwrought	tonnes	4 212	4 711	6 366	2 330	5 284
Unwrought alloys	tonnes	2 783	2 528	1 819	2 067	2 023
Scrap	tonnes	6 967	7 726	9 839	7 444	15 832
Diamond						
Unsorted	Carats	£419 000	£315 000	£288 000	£228 000	£180 000
Gem, rough	Carats	£165 000	£131 000	£111 000	£41 000	...
Gem, cut	Carats	£3 575 000	£3 346 000	£3 201 000	£3 018 000	£1 992 000
Industrial	Carats	65 000	520 000	20 000	40 000	20 000
Dust	Carats	519 830	773 725	645 000	735 000	585 000
Diatomite	tonnes	4 367	3 432	3 426	2 724	2 672
Feldspar	tonnes	1 209	1 217	4 902	5 660	8 333
Fluorspar	tonnes	16 740	17 605	16 818	15 398	17 582
Gold						
Metal	kilograms	650	595	1 358	905	975
Gypsum						
Crude	tonnes	235 787	182 082	223 784	150 748	119 917
Calcined	tonnes	7 281	11 020	9 270	7 061	7 728
Iodine	kilograms	1 443	1 174	856	719	794
Iron ore	tonnes	(b) 3 052 609	3 728 222	3 220 998	(b) 2 903 196	(b) 3 091 635

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	36 120	31 235	21 728	20 360	21 725
Sponge and powder	tonnes	872 476	1 871	1 102	1 361	1 783
Ferro-chrome	tonnes	7 055	8 274	33 392	6 865	7 949
Ferro-silico-magnesium	tonnes	190	158	220	100	65
Ferro-manganese	tonnes	10 595	11 784	10 170	9 005	10 661
Ferro-silico-manganese	tonnes	30 204	30 169	* 22 000	30 757	31 309
Ferro-molybdenum	tonnes	1 316	1 717	* 1 200	1 001	1 374
Ferro-nickel	tonnes	25 746	40 962	* 51 000	35 930	75 230
Ferro-niobium	tonnes	629	849	874	804	1 110
Ferro-phosphorus	tonnes	543	499	325	537	374
Ferro-silicon	tonnes	31 395	30 207	34 361	34 600	36 493
Ferro-titanium and ferro-silico-titanium	tonnes	1 043	1 843	942	994	1 072
Ferro-vanadium	tonnes	235	193	134	119	181
Other ferro-alloys	tonnes	4 648	4 839	1 545	1 260	1 061
Silicon metal	tonnes	1 390	1 281	845	1 821	5 370
Ingots, blooms, billets	tonnes	18 268	17 119	10 111	12 616	4 205
Scrap	tonnes	754 726	710 558	* 600 000	* 556 007	* 783 502
Kaolin	tonnes	941 387	936 544	860 241	806 954	745 438
<b>Lead</b>						
Unwrought	tonnes	1 512	2 446	3 821	4 146	4 245
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	118	576	568	264	—
Magnesia	tonnes	7 387	9 214	8 959	8 074	8 153
<b>Manganese</b>						
Ores and concentrates	tonnes	21 961	3 792	329	248	229
Metal	tonnes	2 134	2 123	2 144	1 747	1 818
Mercury	kilograms	2 203	4 069	36	17	31
Mica	tonnes	3 647	3 351	2 267	208	265
<b>Molybdenum</b>						
Ores and concentrates	tonnes	(c)* 1 724	(c)* 1 679	(c)* 2 013	3 864	5 531
<b>Nickel</b>						
Mattes, sinters etc	tonnes	33 986	35 284	30 443	29 502	19 562
Ores and concentrates	tonnes	217 164	276 892	276 587	240 116	307 179
Unwrought	tonnes	14 558	9 946	—	7 878	1 233
Unwrought alloys	tonnes	17 649	2 688	—	490	4 729
Crude petroleum	tonnes	11 211 580	11 504 505	11 088 493	11 639 775	11 608 880
Natural gas	tonnes	3 252 037	3 543 126	* 3 042 000	* 2 166 000	* 1 450 000
Phosphate rock	tonnes	28 144	10 181	(c)* 52	41 664	(c)* 168
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	385	356	57 429	107 271	246
Waste and scrap	kilograms	...	...	—	—	1 777
<b>Potash</b>						
Chloride (d)	tonnes	194 800	211 100	207 500	232 400	226 500
Other potassic fertilisers	tonnes	117	4 602	1 100	9	192
<b>Rare earths</b>						
Cerium compounds	tonnes	72	52	18	23	14
Other rare earth compounds	tonnes	8	14	5	3	1
Ferro-cerium and other pyrophoric alloys	tonnes	2	2	10	12	11
Salt	tonnes	384 089	452 873	385 359	380 753	423 978
<b>Silver</b>						
Metal	kilograms	50 681	26 764	19 618	13 828	14 647
<b>Sulphur and pyrites</b>						
Sulphur	tonnes	21 676	38 923	29 283	16 558	25 298
Sulphur, sublimed and precipitated	tonnes	3	4	43	210	163
Talc	tonnes	1 202	1 929	1 624	1 153	961
<b>Tantalum and niobium</b>						
Tantalum	tonnes	* 0	* 0	* 0	* 87	* 9
<b>Tin</b>						
Unwrought (e)	tonnes	188	136	124	77	249
<b>Titanium</b>						
Titanium minerals	tonnes	(c)* 20	(c)* 3 154	(c)* 20	39 888	(c)* 10
Metal	tonnes	60	66	81	62	246
Oxides	tonnes	15 571	15 533	13 638	14 391	13 669

Finland

Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Tungsten						
Metal	tonnes	403	567	456	725	824
Zinc						
Ores and concentrates	tonnes	559 918	547 265	558 963	611 240	557 413
Unwrought (e)	tonnes	4 374	1 471	1 146	1 565	1 750

Note(s)

- (a) Including anthracite
- (b) Including burnt pyrites
- (c) BGS estimates, based on known exports from certain countries
- (d) K<sub>2</sub>O content
- (e) Including alloys



## France

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	141 290 000	148 680 000	138 280 000	135 543 000	* 127 000 000
Crushed rock	tonnes	201 860 000	204 980 000	196 600 000	205 638 000	* 199 000 000
Bauxite	tonnes	93 100	80 800	90 000	100 000	71 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	481 000	470 000	430 000	430 000	* 400 000
Primary aluminium	tonnes	356 000	334 000	349 000	343 000	415 000
Bentonite	tonnes	25 000	20 000	28 000	25 000	20 000
Cement						
Cement, clinker	tonnes	14 901 000	15 229 000	14 178 000	13 778 000	13 146 000
Cement, finished	tonnes	17 998 000	19 443 000	18 018 000	17 469 000	16 426 000
Cobalt metal	tonnes	302	354	326	308	219
Diatomite	tonnes	* 75 000	* 75 000	* 85 000	* 85 000	* 90 000
Feldspar	tonnes	* 650 000	* 600 000	* 600 000	* 550 000	* 550 000
Gypsum (a)	tonnes	2 065 814	2 452 204	2 314 788	2 189 971	1 907 768
Pig iron	tonnes	10 136 827	9 697 535	9 531 844	10 276 499	10 865 646
Crude steel	tonnes	15 413 577	15 780 639	15 607 227	15 685 350	16 143 625
Ferro-alloys						
Ferro-manganese	tonnes	138 100	130 500	101 000	* 100 000	* 100 000
Ferro-silico-manganese	tonnes	62 400	63 400	68 500	* 70 000	* 70 000
Ferro-silicon	tonnes	* 27 000	* 59 000	* 71 000	* 60 000	40 000
Silicon metal	tonnes	* 112 000	* 128 000	* 110 000	* 110 000	100 000
Kaolin	tonnes	350 000	310 000	308 000	* 300 000	311 000
Lead, refined	tonnes	71 000	80 000	83 000	71 000	72 000
Mica (b)	tonnes	* 19 000	* 19 000	* 18 000	* 19 700	* 20 200
Nickel, smelter/refinery	tonnes	12 900	13 700	13 200	12 100	8 400
Crude petroleum	tonnes	896 000	895 000	806 500	793 000	* 800 000
Natural gas	million m <sup>3</sup>	736	623	538	340	28
Salt	tonnes	* 8 500 000	* 8 500 000	6 545 600	7 312 200	6 500 000
Sillimanite minerals						
Andalusite	tonnes	* 65 000	* 65 000	* 68 000	* 68 000	* 68 000
Sulphur and pyrites						
Recovered (c)	tonnes (sulphur content)	570 000	505 000	440 000	370 000	* 370 000
Recovered (d)	tonnes (sulphur content)	78 400	78 400	78 400	78 400	* 78 400
Talc	tonnes	400 000	400 000	350 000	350 000	350 000
Slab zinc	tonnes	163 000	164 000	161 000	152 000	171 000

#### Notes

- (1) France may produce fuller's earth  
(2) Significant quantities of germanium are also believed to be recovered from imported and domestic material

- (a) Including anhydrite  
(b) Including mica recovered from mica schists and/or kaolin beneficiation  
(c) From petroleum refining and/or natural gas  
(d) Other

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	8 142 237	7 226 413	7 769 899	8 224 326	8 385 946
Aluminium and bauxite						
Bauxite	tonnes	12 116	13 594	11 975	11 125	8 715
Alumina	tonnes	270 769	281 634	309 291	265 798	276 387
Alumina hydrate	tonnes	131 035	83 054	139 311	97 170	87 204
Unwrought	tonnes	51 275	71 970	45 172	64 410	52 152
Unwrought alloys	tonnes	166 807	130 384	127 551	129 161	155 837
Scrap	tonnes	405 847	425 541	423 298	447 687	484 375
Antimony						
Metal	tonnes	145	24	60	95	68
Oxide	tonnes	6 853	6 124	5 482	5 192	5 470

## France

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Arsenic						
Metallic arsenic	tonnes	5	8	10	3	6
Barytes						
Barium minerals (a)	tonnes	* 10 500	* 10 600	* 11 700	* 6 500	* 6 900
Bentonite	tonnes	12 709	11 472	8 826	7 658	9 365
Bismuth						
Metal	tonnes	20	49	115	259	168
Cadmium						
Metal	tonnes	763	549	733	584	285
Cement						
Cement clinkers	tonnes	282 673	179 184	210 901	218 646	194 116
Portland cement	tonnes	766 167	764 305	765 777	896 682	789 824
Chromium						
Ores and concentrates	tonnes	2 422	2 168	1 858	3 390	2 729
Metal	tonnes	7 612	8 034	9 720	9 509	9 857
Coal						
Anthracite	tonnes	9 551	4 760	11 423	100 873	115 987
Other coal	tonnes	121 733	113 718	168 068	96 081	161 171
Briquettes	tonnes	4 495	2 390	109	39	67
Cobalt						
Metal	tonnes	785	1 086	1 100	1 217	1 169
Copper						
Ores and concentrates	tonnes	847	128	536	2 286	24
Scrap	tonnes	292 631	305 883	317 556	298 873	321 509
Unwrought, unrefined	tonnes	7 356	9 545	2 430	2 895	1 465
Unwrought, refined	tonnes	23 258	35 309	39 858	29 397	15 678
Unwrought alloys	tonnes	12 786	10 624	11 182	11 025	9 990
Crude petroleum	tonnes	161 761	467 914	427 246	67 524	4 352
Diamond						
Unsorted	Carats	£16 000	£3 017 000	£217 000	£409 000	£674 000
Gem	Carats	£109 371 000	£122 385 000	£222 448 000	£175 923 000	£217 138 000
Industrial	Carats	£196 000	£70 000	£277 000	£29 000	£137 000
Dust	Carats	1 609 470	8 768 911	2 075 000	3 335 000	3 240 000
Diatomite	tonnes	26 822	25 420	25 245	22 688	23 393
Feldspar	tonnes	226 149	226 934	207 687	167 806	197 618
Gold						
Metal	kilograms	27 729	45 303	54 233	41 186	29 815
Waste and scrap	kilograms	24 189	29 961	10 955	9 694	9 628
Graphite	tonnes	361	321	166	222	265
Gypsum						
Crude	tonnes	259 192	239 815	267 365	328 277	314 872
Calcined	tonnes	286 799	310 248	289 668	242 886	270 093
Iodine	kilograms	47 103	89 357	187 560	86 018	112 913
Iron ore	tonnes	(b) 19 349	129 374	(b) 88 094	167 799	90 541
Iron, steel and ferro-alloys						
Pig iron	tonnes	52 439	53 736	44 010	42 234	35 485
Sponge and powder	tonnes	18 917	20 857	9 484	7 372	18 140
Ferro-chrome	tonnes	2 447	2 035	2 837	1 995	2 056
Ferro-silico-magnesium	tonnes	1 259	1 222	2 381	1 485	1 261
Ferro-manganese	tonnes	2 200	2 554	1 704	782	350
Ferro-silico-manganese	tonnes	51 330	54 023	51 068	79 510	104 825
Ferro-molybdenum	tonnes	548	802	972	724	705
Ferro-nickel	tonnes	6 104	1 042	787	59	40
Ferro-niobium	tonnes	505	220	186	186	739
Ferro-silicon	tonnes	77 144	84 879	74 961	75 639	68 903
Ferro-titanium and ferro-silico-titanium	tonnes	1 869	1 985	1 660	1 744	2 209
Other ferro-alloys	tonnes	37 932	33 076	45 776	39 004	30 344
Silicon metal	tonnes	261	298	85	65	234
Ingots, blooms, billets	tonnes	1 858 111	2 088 739	2 232 987	1 141 631	1 233 421
Scrap	tonnes	6 665 264	6 240 254	6 233 179	6 174 335	6 307 971
Kaolin	tonnes	272 778	273 802	244 439	232 133	240 605
Lead						
Unwrought	tonnes	36 293	40 470	53 971	46 991	42 054
Scrap	tonnes	37 654	20 392	15 936	22 573	25 668
Lithium						
Oxides	tonnes	46	108	103	72	114

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Magnesite and magnesia						
Magnesite	tonnes	274	207	250	195	458
Magnesia	tonnes	52 553	35 543	38 098	53 989	61 368
Manganese						
Ores and concentrates (c)	tonnes	152 425	125 827	118 915	130 333	36 460
Metal	tonnes	717	805	1 081	582	135
Mercury	kilograms	1 595	49 992	2 233	1 092	1 216
Mica	tonnes	12 455	12 821	11 771	13 352	13 200
Molybdenum						
Ores and concentrates	tonnes	205	352	81	30	157
Metal	tonnes	47	36	317	262	1 025
Nickel						
Mattes, sinters etc	tonnes	315	1 306	1 384	1 240	1 177
Unwrought	tonnes	9 376	10 997	11 477	9 535	6 462
Unwrought alloys	tonnes	1 307	1 875	1 818	2 517	3 707
Scrap	tonnes	30 601	11 685	12 683	9 164	10 253
Natural gas	tonnes	2 908 272	8 017 462	* 5 800 000	4 729 143	4 697 219
Phosphate rock (a)	tonnes	* 18 000	* 19 000	* 31 000	* 33 000	* 19 000
Platinum metals						
Platinum	kilograms	1 884	2 566	4 139	4 662	16 425
Platinum metals	kilograms	914	1 255	2 558	3 281	5 514
Waste and scrap	kilograms	179 798	270 355	352 702	521 192	275 632
Potash						
Sulphate	tonnes	17 085	25 238	17 335	3 224	982
Chloride	tonnes	36 215	15 947	65 461	66 100	55 048
Other potassic fertilisers	tonnes	1 788	2 772	3 714	2 660	1 276
Rare earths						
Metals	tonnes	8	11	12	14	10
Rare earth compounds	tonnes	3 411	2 789	2 097	1 878	843
Salt	tonnes	297 909	190 124	147 441	207 111	148 107
Sillimanite minerals	tonnes	49 011	55 316	43 751	43 457	50 394
Silver						
Ores and concentrates	kilograms	—	4 053	319	591 800	81 450
Metal	kilograms	258 205	511 716	392 507	420 267	382 845
Sulphur and pyrites						
Sulphur	tonnes	296 345	248 989	237 974	193 899	95 143
Sulphur, sublimed and precipitated	tonnes	565	556	394	232	99
Talc	tonnes	270 494	269 518	271 399	273 414	285 681
Tantalum and niobium						
Tantalum	tonnes	20	25	41	138	42
Tin						
Concentrates	tonnes	341	89	74	23	42
Unwrought	tonnes	423	413	485	323	526
Unwrought alloys	tonnes	143	178	145	170	79
Scrap	tonnes	342	532	484	616	533
Titanium						
Metal	tonnes	4 907	5 333	5 946	6 633	8 838
Oxides	tonnes	129 197	140 278	114 715	127 319	111 622
Tungsten						
Ores and concentrates	tonnes	2	3	—	1 335	189
Metal	tonnes	473	589	962	566	559
Carbide	tonnes	288	272	353	286	208
Zinc						
Ores and concentrates	tonnes	49 652	54 609	62 111	97 317	81 569
Unwrought	tonnes	79 727	105 934	80 747	73 557	119 045
Unwrought alloys	tonnes	1 851	2 549	1 938	2 333	2 235
Scrap	tonnes	51 755	42 736	42 231	47 478	118 445
Zirconium						
Concentrates	tonnes	2 044	4 973	1 708	1 955	2 569

## Note(s)

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

(b) Including burnt pyrites

(c) Including manganiferous iron ore

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	9 838 820	11 224 302	10 814 082	10 481 744	10 430 257
Aluminium and bauxite						
Bauxite	tonnes	984 804	1 577 328	1 443 488	1 198 412	1 343 089
Alumina	tonnes	734 935	619 175	734 773	720 649	746 090
Alumina hydrate	tonnes	47 336	47 510	43 650	37 402	38 586
Unwrought	tonnes	103 937	152 348	134 309	147 016	177 323
Unwrought alloys	tonnes	364 962	387 038	277 335	326 472	385 126
Scrap	tonnes	260 871	292 597	267 325	246 746	234 669
Antimony						
Ores and concentrates	tonnes	101	74	0	0	9
Metal	tonnes	9 068	7 413	6 502	5 372	6 680
Oxide	tonnes	1 577	2 854	1 677	1 572	1 542
Arsenic						
Metallic arsenic	tonnes	17	21	30	18	33
Asbestos						
Unmanufactured	tonnes	42	(a)* 60	(a)* 10	(a)* 40	(a)* 40
Barytes						
Barium minerals	tonnes	41 513	29 516	40 294	32 790	23 809
Bentonite	tonnes	159 096	194 555	180 301	132 657	131 827
Bismuth						
Metal	tonnes	100	205	281	311	677
Bromine	kilograms	5 275 994	8 449 327	8 999 985	10 135 985	9 845 622
Cadmium						
Metal	tonnes	212	100	285	70	104
Cement						
Cement clinkers	tonnes	838 538	849 577	693 269	1 118 820	958 385
Portland cement	tonnes	2 422 582	3 113 977	3 057 832	2 776 280	2 798 666
Other cement	tonnes	559 436	246 702	239 915	289 020	333 467
Chromium						
Ores and concentrates	tonnes	11 273	15 835	14 844	10 639	14 204
Metal	tonnes	1 155	524	466	837	972
Coal						
Anthracite	tonnes	2 291 609	1 304 643	1 527 937	1 766 268	1 072 158
Other coal	tonnes	16 688 152	14 073 053	16 249 645	16 699 467	13 170 273
Lignite	tonnes	52 076	82 504	75 621	146 480	154 525
Briquettes	tonnes	129 465	102 257	164 158	120 067	127 366
Cobalt						
Metal	tonnes	1 681	2 338	2 013	1 533	1 988
Oxides	tonnes	635	841	611	650	494
Copper						
Unwrought	tonnes	227 271	226 312	218 176	230 041	223 666
Unwrought alloys	tonnes	9 242	9 148	8 200	8 742	6 199
Scrap	tonnes	72 220	81 824	76 972	63 604	67 840
Diamond						
Unsorted	Carats	9 402	10 015	* 41 800	* 22 900	* 18 500
Gem, rough	Carats	£949 000	£698 000	£1 547 000	£914 000	£1 555 000
Gem, cut	Carats	468 867	660 561	* 843 000	* 861 000	* 796 000
Industrial	Carats	30 480	30 012	* 54 000	* 29 000	* 24 000
Dust	Carats	12 512 821	22 167 841	21 135 000	15 530 000	21 025 000
Diatomite	tonnes	17 477	14 098	13 279	11 150	12 086
Feldspar	tonnes	31 721	34 907	36 109	50 725	70 019
Fluorspar	tonnes	14 601	14 655	15 879	15 453	15 795
Gold						
Metal	kilograms	20 037	19 721	18 994	26 979	20 200
Waste and scrap	kilograms	25 070	3 886	697	1 324	12 568
Graphite	tonnes	9 981	11 725	8 201	7 799	11 150
Gypsum						
Crude	tonnes	313 842	249 933	283 071	367 325	320 671
Calcined	tonnes	85 849	76 800	73 772	90 451	93 009
Iodine	kilograms	1 530 436	1 492 427	1 501 344	1 237 444	1 361 833
Iron ore						
Iron ore	tonnes	15 259 049	13 531 471	13 718 095	15 344 995	17 106 178
Burnt pyrites	tonnes	11 603	11 452	23 894	13 099	6 569

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	139 186	160 336	140 321	187 416	150 165
Sponge and powder	tonnes	52 795	84 787	38 973	72 852	37 697
Ferro-chrome	tonnes	111 080	99 240	106 591	121 183	121 006
Ferro-silico-magnesium	tonnes	1 047	1 102	483	572	672
Ferro-manganese	tonnes	44 405	43 245	37 724	40 090	29 547
Ferro-silico-manganese	tonnes	35 405	44 217	58 938	40 432	62 179
Ferro-molybdenum	tonnes	3 720	4 857	4 441	4 081	4 091
Ferro-nickel	tonnes	7 724	16 270	4 818	6 119	13 255
Ferro-niobium	tonnes	2 195	2 225	1 608	1 673	2 103
Ferro-phosphorus	tonnes	2 656	2 227	1 833	1 857	1 983
Ferro-silicon	tonnes	51 906	65 306	54 824	52 768	68 493
Ferro-titanium and ferro-silico-titanium	tonnes	5 457	5 756	3 958	4 314	4 549
Ferro-tungsten and ferro-silico-tungsten	tonnes	343	378	303	328	275
Ferro-vanadium	tonnes	1 065	1 113	811	815	705
Other ferro-alloys	tonnes	16 247	15 035	8 602	11 741	12 485
Silicon metal	tonnes	19 135	19 373	27 828	30 215	30 591
Ingots, blooms, billets	tonnes	1 807 094	2 047 778	1 728 612	1 696 098	1 817 764
Scrap	tonnes	2 450 993	2 682 258	2 732 380	2 377 000	2 480 652
Kaolin	tonnes	231 779	220 764	223 649	198 892	175 767
<b>Lead</b>						
Unwrought	tonnes	34 090	39 305	38 918	42 523	46 479
Scrap	tonnes	12 848	15 182	14 265	2 941	3 273
<b>Lithium</b>						
Oxides	tonnes	570	479	547	505	581
Carbonate	tonnes	1 137	2 792	1 756	1 162	1 371
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	784	1 087	4 013	3 948	2 402
Magnesia	tonnes	126 821	127 469	115 590	131 742	138 689
<b>Manganese</b>						
Ores and concentrates (b)	tonnes	721 272	647 182	562 298	572 043	308 163
Metal	tonnes	17 586	21 186	9 231	10 304	11 272
Mercury	kilograms	19 073	1 406	252	180	402
<b>Mica</b>						
Unmanufactured	tonnes	255	848	488	541	393
Ground	tonnes	1 861	2 149	1 828	1 941	1 649
<b>Molybdenum</b>						
Ores and concentrates	tonnes	1 209	1 764	1 575	1 653	2 228
Metal	tonnes	888	1 098	942	998	1 072
Oxides	tonnes	1 095	1 465	1 365	1 387	1 128
<b>Nickel</b>						
Mattes, sinters etc	tonnes	19 921	19 954	19 395	19 053	12 042
Unwrought	tonnes	13 964	21 693	24 002	16 608	20 214
Unwrought alloys	tonnes	5 029	7 345	5 466	4 943	5 979
Oxides	tonnes	524	412	114	66	56
Scrap	tonnes	2 164	2 988	2 713	3 063	3 036
Crude petroleum	tonnes	59 946 970	62 875 826	56 890 280	55 608 981	51 305 516
Natural gas	tonnes	41 624 014	50 897 525	(a)* 37 000 000	35 767 086	29 549 860
Phosphate rock	tonnes	305 259	264 541	312 023	229 553	260 572
<b>Platinum metals</b>						
Platinum	kilograms	4 516	4 010	4 606	43 645	6 628
Palladium	kilograms	2 706	25 607	7 919	10 272	10 355
Other platinum metals	kilograms	300	270	264	1 308	950
Waste and scrap	kilograms	143 885	296 178	122 641	411 440	329 640
<b>Potash</b>						
Sulphate	tonnes	51 068	40 885	75 743	86 471	85 795
Chloride	tonnes	1 049 344	1 003 299	901 717	826 150	902 959
Other potassic fertilisers	tonnes	13 998	6 814	13 696	15 213	20 530
<b>Rare earths</b>						
Metals	tonnes	372	506	280	338	191
Cerium compounds	tonnes	5 687	1 867	3 940	* 1 900	* 500
Other rare earth compounds	tonnes	1 408	1 359	1 301	1 396	574
Ferro-cerium and other pyrophoric alloys	tonnes	83	388	940	242	932
Salt	tonnes	1 653 101	1 622 835	705 665	1 157 520	643 237
<b>Sillimanite minerals</b>						
Sillimanite minerals	tonnes	3 110	3 502	1 930	2 576	2 573
Mullite	tonnes	2 663	3 831	2 919	2 948	2 650

## France

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Silver						
Ores and concentrates	kilograms	4 433 810	8 499	100 102	8 713	51 561
Metal	kilograms	954 773	908 080	612 382	680 836	750 677
Sulphur and pyrites						
Pyrites	tonnes	183	206	136	254	564
Sulphur	tonnes	78 366	92 106	108 471	145 535	164 461
Sulphur, sublimed and precipitated	tonnes	410	441	481	1 623	495
Talc	tonnes	59 722	48 155	47 883	45 965	23 884
Tantalum and niobium						
Tantalum	tonnes	22	39	49	39	18
Tin						
Unwrought	tonnes	5 787	5 252	4 815	4 693	5 729
Unwrought alloys	tonnes	389	283	266	305	224
Scrap	tonnes	100	61	107	57	76
Titanium						
Titanium minerals	tonnes	50 893	67 259	184 385	91 344	161 216
Metal	tonnes	7 766	10 026	11 881	13 169	16 267
Oxides	tonnes	148 994	138 687	123 037	129 659	139 199
Titanium slag	tonnes	15 218	246	20 762	12 707	—
Tungsten						
Ores and concentrates	tonnes	2	4	14 619	69 283	77
Metal	tonnes	867	1 027	619	534	1 022
Carbide	tonnes	359	583	551	575	603
Vanadium						
Metal	tonnes	84	104	119	80	94
Pentoxide	tonnes	574	605	429	652	660
Zinc						
Ores and concentrates	tonnes	222 580	234 060	288 110	306 850	320 668
Unwrought	tonnes	131 993	151 988	126 771	120 553	119 879
Unwrought alloys	tonnes	34 205	34 022	32 075	34 823	37 710
Scrap	tonnes	3 003	3 853	23 591	58 552	53 540
Zirconium						
Concentrates	tonnes	25 310	35 922	25 784	26 688	17 834
Metal	tonnes	326	687	436	363	3 863

## Note(s)

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

(b) Including manganiferous iron ore

# Germany

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	239 000 000	252 000 000	235 300 000	228 000 000	238 000 000
Crushed rock	tonnes	208 000 000	229 000 000	211 000 000	207 000 000	211 000 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Primary aluminium	tonnes	402 480	432 472	410 413	492 368	530 700
Barytes	tonnes	55 887	55 342	52 030	45 446	70 665
Bentonite	tonnes	362 623	375 332	366 220	358 844	394 657
Bromine	kilograms	1 500 000	1 600 000	1 600 000	1 500 000	1 500 000
Cadmium	tonnes	* 400	* 400	* 400	* 400	* 400
Cement						
Cement, clinker	tonnes	22 996 000	24 775 000	24 581 000	23 127 000	23 871 000
Cement, finished	tonnes	29 915 000	33 540 000	32 432 000	31 308 000	32 099 000
Coal						
Anthracite and Bituminous	tonnes	14 110 000	12 960 000	11 558 000	8 260 000	8 340 000
Brown coal	tonnes	169 402 544	176 502 048	185 432 000	182 995 337	178 177 703
Copper, refined	tonnes	704 300	708 800	682 132	677 600	676 900
Copper, smelter	tonnes	378 700	335 000	352 400	295 200	351 100
Diatomite	tonnes	49 306	52 698	50 036	51 435	54 277
Feldspar	tonnes	350 000	350 000	350 000	* 350 000	* 350 000
Fluorspar	tonnes	59 086	65 619	54 202	48 744	35 270
Graphite	tonnes	—	—	109	269	517
Gypsum (a)	tonnes	1 822 000	2 021 000	1 949 000	1 778 000	1 802 000
Indium	tonnes	* 10	* 10	* 10	* 10	* 10
Iron ore (b)(c)	tonnes	390 353	489 091	447 515	413 404	455 941
Pig iron	tonnes	28 560 000	27 943 000	27 046 000	27 177 000	27 943 000
Crude steel	tonnes	43 830 000	44 284 000	42 661 000	42 645 000	42 941 000
Ferro-alloys						
Ferro-chrome	tonnes	* 18 300	* 18 500	* 17 800	* 17 800	* 17 800
Other ferro-alloys	tonnes	* 9 200	9 985	8 248	* 8 200	* 8 200
Silicon metal	tonnes	30 105	30 134	28 574	30 283	28 500
Kaolin (d)	tonnes	4 578 097	4 898 516	4 398 796	4 348 562	4 275 422
Lead, refined	tonnes	405 400	429 100	423 000	400 000	408 000
Crude petroleum	tonnes	2 511 174	2 677 136	2 633 000	2 638 379	2 429 789
Natural gas	million m <sup>3</sup>	13 666	12 952	11 706	10 678	10 060
Potash						
Potassic salts	tonnes (K <sub>2</sub> O content)	3 023 941	3 214 696	3 149 386	3 075 201	3 126 913
Salt						
Rock salt	tonnes	9 992 156	8 765 168	5 938 855	8 510 652	4 928 656
Brine salt	tonnes	2 118 484	2 217 205	2 182 440	2 164 456	2 133 359
Salt in brine	tonnes	* 4 500 000	* 6 500 000	* 10 900 000	7 878 895	4 075 004
Selenium metal (e)	tonnes	* 650	* 700	* 650	* 700	* 700
Sulphur and pyrites						
Recovered (f)	tonnes (sulphur content)	831 533	874 639	798 257	754 540	708 146
Recovered (g)	tonnes (sulphur content)	520 220	542 210	493 169	464 776	437 677
Uranium, mine	tonnes (metal content)	* 8	52	50	27	33
Zinc, mine	tonnes	165 000	170 000	169 000	162 000	165 000

### Notes

(1) Germany is also believed to produce strontium minerals and tellurium metal

- (a) Including anhydrite
- (b) Including manganiferous iron ore
- (c) Used as aggregate in the construction industry
- (d) Washed and dried
- (e) Includes selenium produced from imported material
- (f) From petroleum refining and/or natural gas
- (g) Other

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	25 337 558	29 162 240	25 160 776	21 825 199	22 579 753
Aluminium and bauxite						
Bauxite	tonnes	26 178	26 306	34 814	22 966	29 271
Alumina	tonnes	424 236	372 191	369 337	374 471	291 433
Alumina hydrate	tonnes	551 817	485 074	455 157	463 704	456 259
Unwrought	tonnes	111 815	83 675	42 580	40 775	26 554
Unwrought alloys	tonnes	361 396	374 917	361 850	383 882	381 113
Scrap	tonnes	823 810	947 252	968 539	935 218	1 048 565
Antimony						
Metal	tonnes	132	239	103	86	20
Oxide	tonnes	961	1 132	688	669	662
Arsenic						
Metallic arsenic	tonnes	57	66	128	40	24
Barytes						
Barium minerals (a)	tonnes	* 33 000	* 34 000	* 29 000	* 12 500	* 2 100
Bentonite	tonnes	84 920	91 477	82 504	72 020	73 547
Bismuth						
Metal	tonnes	178	210	195	86	386
Bromine	kilograms	6 119	7 543	8 559	28 941	5 044
Cadmium						
Metal	tonnes	523	348	379	450	584
Cement						
Cement clinkers	tonnes	680 552	761 406	475 987	443 142	420 122
Portland cement	tonnes	4 173 112	5 002 240	4 672 927	4 217 917	3 843 447
Other cement	tonnes	2 010 734	2 159 075	1 794 724	1 664 700	1 911 501
Chromium						
Ores and concentrates	tonnes	32 070	53 989	60 354	59 965	54 329
Metal	tonnes	4 606	2 995	6 308	3 496	3 928
Coal						
Anthracite	tonnes	222 458	165 471	166 704	198 318	169 161
Other coal	tonnes	31 492	39 712	109 026	52 793	38 926
Lignite	tonnes	696 279	789 315	1 134 350	919 347	1 030 211
Briquettes	tonnes	463 102	467 383	450 270	386 161	1 582 748
Cobalt						
Ore	tonnes	88	—	8	—	175
Metal	tonnes	1 481	1 393	1 533	1 641	1 981
Oxides	tonnes	102	113	84	53	122
Copper						
Ores and concentrates	tonnes	48 761	54 856	57 074	47 039	51 395
Matte and cement	tonnes	8 431	9	2	1	1 340
Unwrought, unrefined	tonnes	104	1 446	2 014	6 688	10 028
Unwrought, refined	tonnes	136 006	195 181	276 943	225 139	174 312
Unwrought alloys	tonnes	13 276	12 276	14 578	14 422	14 261
Scrap	tonnes	578 448	585 346	587 935	516 590	531 195
Diamond						
Unsorted (b)	Carats	£* 863 000	£* 489 000	£* 283 000	£* 3 271 000	£* 3 895 000
Gem	Carats	161 687	155 370	129 830	126 640	98 997
Dust	Carats	7 355 000	13 670 000	15 095 000	16 665 000	18 745 000
Diatomite	tonnes	5 361	14 251	22 190	27 103	29 410
Feldspar	tonnes	78 610	76 300	70 936	91 047	92 144
Fluorspar	tonnes	33 487	45 955	38 029	37 087	31 758
Gold						
Metal	kilograms	221 003	226 243	212 936	183 267	150 242
Waste and scrap	kilograms	904 379	688 482	956 113	80 219	864 308
Graphite	tonnes	20 583	15 600	12 721	13 601	16 994
Gypsum						
Crude	tonnes	430 977	516 024	501 487	425 608	430 612
Calcined	tonnes	1 558 288	1 333 953	1 444 714	1 156 749	1 162 927
Iodine	kilograms	62 331	124 705	109 595	62 042	43 909
Iron ore						
Iron ore	tonnes	22 373	54 555	42 763	50 451	113 172
Burnt pyrites	tonnes	7 994	15 999	—	—	5



## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	180 542	183 310	171 347	149 745	122 568
Sponge and powder	tonnes	56 763	43 160	35 370	35 330	38 850
Ferro-chrome	tonnes	54 956	45 048	32 760	28 644	44 309
Ferro-silico-magnesium	tonnes	1 718	2 355	2 062	2 981	1 762
Ferro-manganese	tonnes	12 387	22 690	11 811	11 501	12 016
Ferro-silico-manganese	tonnes	3 377	17 756	12 006	16 084	16 276
Ferro-molybdenum	tonnes	3 174	4 440	2 815	3 438	3 808
Ferro-nickel	tonnes	7 869	5 775	391	1 146	119
Ferro-niobium	tonnes	538	237	228	283	342
Ferro-phosphorus	tonnes	1 452	1 233	1 250	1 449	1 619
Ferro-silicon	tonnes	95 683	81 464	67 351	65 014	75 122
Ferro-titanium and ferro-silico-titanium	tonnes	4 180	5 350	4 687	4 010	3 739
Ferro-tungsten and ferro-silico-tungsten	tonnes	640	402	417	381	320
Ferro-vanadium	tonnes	659	391	226	389	550
Other ferro-alloys	tonnes	10 799	8 722	3 952	5 080	5 165
Silicon metal	tonnes	29 309	33 077	49 693	58 466	72 954
Ingots, blooms, billets	tonnes	2 150 091	2 150 120	1 712 813	1 844 387	1 945 249
Scrap	tonnes	9 175 802	9 859 197	9 658 280	9 146 441	9 291 270
Kaolin	tonnes	389 927	431 815	361 915	372 171	394 195
<b>Lead</b>						
Ores and concentrates	tonnes	4 296	19 697	60 356	14 517	—
Unwrought	tonnes	203 077	196 443	178 589	146 285	187 687
Scrap	tonnes	9 892	12 932	7 982	12 859	16 234
<b>Lithium</b>						
Carbonate	tonnes	2 387	2 927	2 259	2 809	3 043
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	229	1 303	381	474	1 379
Magnesia	tonnes	94 198	67 605	73 154	84 986	96 136
<b>Manganese</b>						
Ores and concentrates	tonnes	4 480	5 035	4 387	4 114	3 215
Metal	tonnes	8 243	8 907	13 598	9 758	10 285
Mercury	kilograms	110 405	197 989	102 650	133 626	57 942
Mica	tonnes	4 197	4 479	4 474	6 157	4 774
<b>Molybdenum</b>						
Ores and concentrates	tonnes	5 017	3 955	3 738	3 127	2 540
Metal	tonnes	763	1 248	1 395	1 475	1 473
<b>Nickel</b>						
Ores and concentrates	tonnes	2 673	299	778	74	2 222
Mattes, sinters etc	tonnes	13 981	15 998	19 412	18 951	22 490
Unwrought	tonnes	3 751	4 184	4 808	4 922	5 921
Unwrought alloys	tonnes	1 866	4 423	5 036	5 336	8 353
Scrap	tonnes	9 563	8 600	7 727	6 516	9 923
Crude petroleum	tonnes	180 515	283 784	138 712	108 761	31 014
Natural gas	tonnes	11 720 448	19 128 385	24 489 252	28 752 629	32 479 383
Phosphate rock	tonnes	489	1 641	1 742	791	705
<b>Platinum metals</b>						
Platinum	kilograms	24 597	24 994	23 627	25 030	25 819
Palladium	kilograms	35 462	43 952	43 524	44 596	36 703
Other platinum metals	kilograms	33 299	28 158	21 018	23 890	23 716
Waste and scrap	kilograms	5 997 852	6 960 588	6 047 948	6 088 890	6 174 615
<b>Potash</b>						
Potassic fertilisers (c)(d)	tonnes	3 023 941	3 214 696	3 149 386	3 075 201	3 126 913
<b>Rare earths</b>						
Metals	tonnes	25	29	10	9	12
Rare earth compounds	tonnes	601	660	699	319	551
Ferro-cerium and other pyrophoric alloys	tonnes	...	5	3	6	10
Salt	tonnes	3 097 654	2 735 634	2 207 276	2 685 408	2 775 974
Sillimanite minerals	tonnes	13 379	18 818	17 287	19 614	20 557
<b>Silver</b>						
Metal	kilograms	3 397 674	3 368 313	2 984 504	2 944 492	3 135 036
<b>Sulphur and pyrites</b>						
Pyrites	tonnes	755	440	342	301	1 457
Sulphur	tonnes	671 836	721 717	525 622	474 875	388 333
Sulphur, sublimed and precipitated	tonnes	271	1 380	274	493	6 427
Talc	tonnes	4 773	6 243	5 274	5 374	7 724

## Germany

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Tantalum and niobium						
Tantalum	tonnes	18	38	33	30	37
Tin						
Unwrought	tonnes	1 253	1 348	1 223	1 215	1 715
Unwrought alloys	tonnes	956	1 459	1 352	1 442	1 554
Scrap	tonnes	1 440	1 175	1 141	1 067	1 222
Titanium						
Titanium minerals	tonnes	22 384	18 932	13 648	51 517	5 623
Metal	tonnes	9 351	13 954	12 561	13 824	14 096
Oxides	tonnes	391 981	345 661	331 757	374 970	351 825
Tungsten						
Ores and concentrates	tonnes	164	976	524	40	192
Metal	tonnes	3 119	3 064	3 618	4 823	4 234
Vanadium						
Metal	tonnes	248	429	560	487	369
Zinc						
Ores and concentrates	tonnes	1 674	73 980	39 533	96 369	98 065
Unwrought	tonnes	52 483	55 518	59 913	54 476	69 430
Unwrought alloys	tonnes	31 857	31 170	29 775	27 985	24 342
Scrap	tonnes	74 208	75 168	73 200	52 974	53 244
Zirconium						
Concentrates (a)	tonnes	* 10 800	* 10 800	* 7 500	* 6 300	* 5 700
Metal	tonnes	384	792	735	896	853

## 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) K<sub>2</sub>O content  
(d) Including sulphate, chloride and other potassic fertilisers

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	11 936 108	13 786 596	11 636 491	9 868 728	10 545 395
Aluminium and bauxite						
Bauxite	tonnes	2 005 053	2 436 413	2 777 032	2 407 688	2 623 127
Alumina	tonnes	661 379	654 946	476 257	832 700	639 868
Alumina hydrate	tonnes	260 488	176 692	196 301	160 162	199 031
Unwrought	tonnes	799 780	768 797	732 599	759 344	870 026
Unwrought alloys	tonnes	1 591 991	1 810 035	1 750 733	1 759 155	1 819 650
Scrap	tonnes	479 413	535 304	575 925	560 479	655 187
Antimony						
Ores and concentrates	tonnes	11	8	6	922	1 202
Metal	tonnes	494	456	376	462	280
Oxide	tonnes	7 986	6 949	6 013	5 675	5 997
Arsenic						
Metallic arsenic	tonnes	73	6	106	45	23
Asbestos						
Unmanufactured	tonnes	72	88	554	78	—
Barytes						
Barium minerals	tonnes	263 839	291 716	237 254	171 262	106 647
Bentonite	tonnes	386 261	447 793	450 850	489 843	472 491
Bismuth						
Metal	tonnes	1 052	1 282	1 155	1 406	1 726
Bromine	kilograms	657 303	722 036	783 214	669 944	769 231
Cadmium						
Metal	tonnes	18	40	69	19	9
Oxide	tonnes	625	489	653	621	507
Cement						
Cement clinkers	tonnes	18 037	52 111	82 345	43 676	44 715
Portland cement	tonnes	939 310	1 054 856	1 023 170	1 043 382	1 016 930
Other cement	tonnes	255 027	217 931	218 486	273 164	275 562

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Chromium						
Ores and concentrates	tonnes	101 972	180 377	188 783	191 488	141 895
Metal	tonnes	4 783	5 931	6 887	7 596	7 163
Coal						
Anthracite	tonnes	3 643 048	2 535 881	1 399 126	1 047 216	990 703
Other coal	tonnes	34 850 251	40 187 648	41 993 809	49 515 475	56 054 138
Lignite	tonnes	24 400	41 768	28 744	87 355	87 769
Briquettes	tonnes	404 681	291 675	138 019	137 275	103 926
Cobalt						
Ore	tonnes	115	170	128	76	65
Metal	tonnes	3 864	4 946	4 505	4 309	4 679
Oxides	tonnes	1 069	900	878	1 580	1 275
Copper						
Ores and concentrates	tonnes	1 128 472	1 124 525	1 215 273	1 013 432	1 185 757
Matte and cement	tonnes	12 739	2 742	2 415	1 867	3 007
Unwrought, unrefined	tonnes	23 331	68 147	55 179	112 940	49 093
Unwrought, refined	tonnes	743 934	737 763	702 577	685 731	664 537
Unwrought alloys	tonnes	36 249	35 493	37 491	39 025	36 743
Scrap	tonnes	626 442	647 084	655 895	617 454	657 301
Diamond						
Gem	Carats	377 399	366 385	314 347	339 116	289 308
Industrial	Carats	122 838	143 922	149 572	164 340	92 897
Dust	Carats	64 065 000	89 060 000	94 175 000	91 750 000	100 160 000
Diatomite	tonnes	43 487	39 892	42 122	43 006	44 967
Feldspar	tonnes	139 663	153 713	109 157	129 123	155 411
Fluorspar	tonnes	261 999	380 027	280 867	249 532	268 879
Gold						
Metal	kilograms	192 815	162 289	133 260	149 337	112 065
Waste and scrap	kilograms	1 396 280	2 680 174	2 568 174	1 997 032	2 320 541
Graphite	tonnes	56 333	57 411	43 349	46 829	53 380
Gypsum						
Crude	tonnes	29 132	26 182	21 712	16 062	19 377
Calcined	tonnes	82 341	80 574	98 665	93 803	86 645
Iodine	kilograms	1 422 575	1 576 165	1 700 953	1 771 622	1 656 931
Iron ore						
Iron ore	tonnes	43 082 309	41 678 285	38 908 327	40 322 561	43 039 944
Burnt pyrites	tonnes	3 077	4 513	23 495	13 696	10 335
Iron, steel and ferro-alloys						
Pig iron	tonnes	421 287	589 302	614 096	533 932	489 961
Sponge and powder	tonnes	500 970	326 097	210 328	461 742	653 438
Ferro-chrome	tonnes	454 005	447 242	392 515	329 237	265 333
Ferro-silico-chrome	tonnes	29 047	18 334	8 573	19 757	34 772
Ferro-silico-magnesium	tonnes	2 972	6 208	4 528	3 412	3 088
Ferro-manganese	tonnes	203 200	232 613	192 817	204 941	206 095
Ferro-silico-manganese	tonnes	185 067	208 913	206 967	224 049	243 694
Ferro-molybdenum	tonnes	16 375	18 760	16 934	17 025	17 850
Ferro-nickel	tonnes	192 394	155 881	81 991	88 951	20 985
Ferro-niobium	tonnes	5 923	6 579	6 297	5 857	6 540
Ferro-phosphorus	tonnes	6 067	5 137	5 587	5 471	6 788
Ferro-silicon	tonnes	272 466	298 352	248 310	227 634	253 921
Ferro-titanium and ferro-silico-titanium	tonnes	8 754	9 818	9 912	9 423	10 785
Ferro-tungsten and ferro-silico-tungsten	tonnes	787	977	1 010	1 313	1 345
Ferro-vanadium	tonnes	5 034	5 305	5 096	4 962	5 613
Other ferro-alloys	tonnes	11 783	15 982	21 651	14 401	14 036
Silicon metal	tonnes	255 977	241 565	232 640	219 791	245 485
Ingots, blooms, billets	tonnes	1 611 091	2 401 066	1 768 289	1 532 302	2 118 072
Scrap	tonnes	5 305 194	6 658 407	5 737 878	5 656 924	5 292 669
Kaolin	tonnes	715 770	705 107	625 826	629 989	624 461
Lead						
Ores and concentrates	tonnes	184 018	205 464	228 444	258 922	266 438
Unwrought	tonnes	157 301	157 653	148 576	149 465	144 872
Scrap	tonnes	39 653	35 823	28 058	28 091	26 409
Lithium						
Oxides (a)	tonnes	* 1 800	* 1 700	* 1 300	* 1 600	* 1 766
Carbonate	tonnes	6 486	5 735	6 064	5 977	6 015

## Germany

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Magnesite and magnesia						
Magnesite	tonnes	12 751	5 625	5 285	4 637	5 018
Magnesia	tonnes	473 545	515 139	496 202	535 966	520 831
Manganese						
Ores and concentrates (b)	tonnes	17 346	19 137	18 532	18 872	17 359
Metal	tonnes	43 346	40 705	35 671	32 039	34 320
Mercury	kilograms	104 241	134 666	52 469	46 484	19 254
Mica						
Unmanufactured	tonnes	1 330	10 527	8 934	7 986	8 043
Ground	tonnes	29 716	26 405	24 116	24 104	26 407
Waste	tonnes	428	20	—	—	—
Molybdenum						
Ores and concentrates	tonnes	9 134	9 500	7 158	6 165	4 354
Metal	tonnes	3 038	3 761	4 016	3 479	3 760
Oxides	tonnes	2 890	2 699	2 385	2 423	2 619
Nickel						
Mattes, sinters etc	tonnes	849	2 048	1 869	766	545
Ores and concentrates	tonnes	1 667	1 184	8 185	1 637	3 042
Unwrought	tonnes	69 282	68 023	73 360	66 360	60 726
Unwrought alloys	tonnes	8 023	11 778	23 191	7 844	11 039
Oxides	tonnes	621	476	608	532	510
Scrap	tonnes	8 584	11 924	14 191	10 135	11 858
Crude petroleum	tonnes	91 239 711	87 338 296	92 277 990	91 465 347	87 502 814
Natural gas	tonnes	82 784 241	87 762 701	92 961 372	98 149 729	101 080 184
Phosphate rock	tonnes	120 580	117 971	133 355	85 115	115 409
Platinum metals						
Platinum	kilograms	40 983	38 019	32 874	33 128	38 066
Palladium	kilograms	53 479	50 926	47 449	41 511	43 339
Other platinum metals	kilograms	19 655	21 319	18 444	15 626	15 963
Waste and scrap	kilograms	8 069 744	7 290 427	8 020 283	7 091 894	7 580 861
Potash						
Sulphate	tonnes	20 786	22 490	21 559	19 889	22 579
Chloride	tonnes	131 645	131 244	146 673	172 910	198 212
Other potassic fertilisers	tonnes	8 065	11 726	7 729	14 129	13 004
Rare earths						
Metals	tonnes	459	263	290	267	276
Cerium compounds	tonnes	1 006	844	553	862	1 601
Other rare earth compounds	tonnes	9 999	6 904	4 155	5 862	5 618
Ferro-cerium and other pyrophoric alloys	tonnes	6	14	11	13	12
Salt	tonnes	2 654 736	3 477 233	2 277 714	2 376 658	2 404 752
Sillimanite minerals						
Sillimanite minerals	tonnes	47 738	48 748	54 045	50 227	70 963
Mullite	tonnes	47 775	72 049	51 709	57 152	28 806
Silver						
Ores and concentrates	kilograms	4 002 438	3 493 141	5 279 656	2 590 874	5 378 985
Metal	kilograms	2 322 566	2 434 577	1 858 257	2 203 529	2 157 829
Sulphur and pyrites						
Pyrites	tonnes	76 101	82 530	74 726	74 610	92 419
Sulphur	tonnes	44 103	51 714	34 102	49 080	69 343
Sulphur, sublimed and precipitated	tonnes	1 649	4 363	4 637	3 889	2 734
Talc	tonnes	324 703	330 321	293 175	304 604	307 921
Tantalum and niobium						
Tantalum	tonnes	231	376	221	178	151
Tin						
Unwrought	tonnes	18 684	21 396	18 865	19 224	20 561
Unwrought alloys	tonnes	316	112	196	186	163
Scrap	tonnes	714	1 578	461	880	536
Titanium						
Titanium minerals	tonnes	838 768	794 043	648 030	612 633	699 059
Metal	tonnes	12 919	20 233	17 015	16 198	17 038
Oxides	tonnes	309 500	329 073	264 304	309 892	321 016
Titanium slag	tonnes	164	2 499	...	...	...
Tungsten						
Ores and concentrates	tonnes	1 029	843	381	119	357
Metal	tonnes	7 168	8 094	6 946	6 351	6 644
Carbide	tonnes	2 544	3 105	2 478	2 337	2 678

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Vanadium						
Metal	tonnes	61	104	68	60	50
Pentoxide (a)	tonnes	* 1 000	* 700	* 1 300	* 1 500	* 400
Zinc						
Ores and concentrates	tonnes	285 331	344 106	324 954	292 037	364 990
Unwrought	tonnes	380 807	398 086	365 788	371 332	378 951
Unwrought alloys	tonnes	57 563	69 972	64 642	64 278	76 188
Scrap	tonnes	23 694	25 853	25 536	20 363	23 291
Zirconium						
Metal	tonnes	798	676	956	983	867

## Note(s)

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

(b) Including manganiferous iron ore

## Greece

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	* 41 000 000	* 33 000 000	* 30 000 000	* 22 000 000	* 19 000 000
Bauxite	tonnes	1 902 000	2 324 000	1 816 000	1 844 000	1 876 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	661 882	683 030	653 011	664 510	674 000
Primary aluminium	tonnes	137 000	165 150	165 050	169 480	173 260
Bentonite	tonnes	844 804	1 250 000	1 235 110	1 200 000	1 000 000
Cement						
Cement, clinker	tonnes	7 446 775	4 569 167	5 544 951	6 754 154	7 025 675
Cement, finished	tonnes	8 778 949	5 822 967	5 422 499	5 553 411	(b) 5 297 743
Coal						
Lignite	tonnes	53 600 000	58 400 000	62 334 800	55 000 000	50 411 000
Feldspar	tonnes	23 050	10 200	13 000	—	—
Gold	kilograms	—	—	26	823	552
Gypsum (a)	tonnes	* 600 000	587 000	700 000	760 000	572 000
Crude steel	tonnes	1 821 000	1 934 000	1 247 000	1 030 000	1 022 000
Ferro-alloys						
Ferro-nickel	tonnes	69 596	93 905	96 435	86 850	94 952
Kaolin	tonnes	3 493	7 250	6 268	—	—
Lead, mine	tonnes (metal content)	12 200	13 400	18 060	18 010	16 700
Lead, refined	tonnes	* 11 000	* 7 000	* 6 000	* 6 000	* 6 000
Magnesite	tonnes	396 497	393 880	349 998	314 770	391 140
Nickel, mined	tonnes (metal content)	16 100	21 700	21 600	19 100	21 400
Nickel, smelter/refinery	tonnes	13 960	18 530	18 630	16 800	18 481
Crude petroleum	tonnes	86 000	87 126	83 143	62 233	59 743
Natural gas	million m <sup>3</sup>	7	6	6	5	* 5
Perlite	tonnes	790 000	800 000	870 000	890 000	985 000
Salt	tonnes	164 000	174 500	191 970	189 500	* 190 000
Silver	kilograms (metal content)	29 000	* 33 300	* 39 800	39 759	35 785
Sulphur and pyrites						
Recovered (c)	tonnes (sulphur content)	230 000	214 943	227 197	230 000	* 230 000
Zinc, mine	tonnes (metal content)	18 400	21 200	20 800	22 549	23 085

## Notes

(a) Including anhydrite

(b) Sales

(c) From petroleum refining and/or natural gas

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	60 851	76 495	118 173	318 563	327 344
Aluminium and bauxite						
Bauxite	tonnes	436 513	519 999	437 305	337 274	429 707
Alumina	tonnes	224 607	202 986	320 795	315 348	340 471
Alumina hydrate	tonnes	99 574	102 136	110 605	160 632	155 770
Unwrought	tonnes	20 727	19 668	5 925	4 626	7 890
Unwrought alloys	tonnes	68 924	103 326	102 092	120 261	122 464
Scrap	tonnes	32 250	27 738	20 367	16 636	15 084
Bentonite and Fuller's Earth						
Bentonite	tonnes	13 203	33 306	14 233	7 770	13 904
Cement						
Cement clinkers	tonnes	722 142	459 716	1 877 641	1 828 644	3 225 696
Portland cement	tonnes	3 122 615	1 548 482	2 398 675	3 733 819	2 519 835
Other cement	tonnes	47 435	155 000	604	9 525	18 483
Coal						
Anthracite	tonnes	2 073	2 175	1 424	702	1 423
Other coal	tonnes	1 499	6 478	8 849	8 758	10 821
Lignite	tonnes	—	10 242	18 262	16 976	—
Briquettes	tonnes	113	—	8 502	1	—

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Copper						
Unwrought	tonnes	825	4 458	981	852	218
Unwrought alloys	tonnes	2 097	4 346	969	646	209
Scrap	tonnes	21 994	18 672	28 705	20 599	14 654
Diamond						
Unsorted	Carats	£43 000	£99 000	£213 000	£789 000	£204 000
Gem	Carats	£1 956 000	£405 000	£270 000	£247 000	£75 000
Industrial	Carats	£49 000	£20 000	£24 000	£114 000	£146 000
Feldspar	tonnes	1 119	1 562	1 279	5 064	(a)* 8 600
Gold						
Metal	kilograms	48	2 455	1 426	2 600	200
Waste and scrap	kilograms	...	12 300	9 300	24 800	66 100
Gypsum						
Crude	tonnes	38 459	95 699	142 598	338 023	358 840
Calcined	tonnes	337	621	3 750	3 415	1 844
Iron ore						
Burnt pyrites	tonnes	...	6 559	—	10 180	2 678
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 009	2 650	2	...	2 820
Ferro-alloys	tonnes	999	294	11 299	4 816	276
Ingots, blooms, billets	tonnes	143 318	139 537	64 523	44 379	51 214
Scrap	tonnes	66 989	59 592	57 511	70 956	62 938
Lead						
Unwrought	tonnes	5 209	3 068	11 313	7 681	9 294
Scrap	tonnes	1 945	735	1 516	1 579	728
Magnesite and magnesia						
Magnesite	tonnes	...	8 766	4 012	1 268	10 055
Magnesia	tonnes	108 020	110 276	87 550	98 204	87 520
Nickel						
Ores and concentrates	tonnes	20 284	120	86	37	25
Crude petroleum	tonnes	—	—	—	235 324	58 598
Natural gas	tonnes	...	2 871	6 027	2 807	—
Platinum metals						
Platinum and platinum metals	kilograms	345	106	883	37	1 500
Waste and scrap	kilograms	—	...	6 300	32 500	21 600
Potash						
Potassic fertilisers	tonnes	1 294	431	336	575	300
Salt	tonnes	59 655	65 014	41 292	38 494	44 999
Silver						
Metal	kilograms	19 700	13 900	14 100	54 200	4 500
Sulphur and pyrites						
Pyrites	tonnes	28 680	42	3 776	57 800	40 037
Sulphur	tonnes	4 594	35 279	167 611	204 170	208 051
Talc	tonnes	2 809	4 086	9 312	6 997	7 107
Titanium						
Oxides	tonnes	773	731	744	1 079	729
Zinc						
Ores and concentrates	tonnes	14 660	36 016	51 007	41 940	36 764

## Note(s)

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	13 538	16 892	4 102	5 633	3 850
Aluminium and bauxite						
Bauxite	tonnes	465 322	333 571	90 804	330 522	439 916
Unwrought	tonnes	153 771	126 051	119 587	141 469	145 268
Unwrought alloys	tonnes	66 134	59 931	51 875	60 864	61 029
Scrap	tonnes	43 866	95 166	54 011	40 371	32 430
Antimony						
Metal	tonnes	74	84	47	98	46

## Greece

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Arsenic						
Metallic arsenic	tonnes	33	9	3	3	10
Barytes						
Barium minerals	tonnes	1 318	2 277	1 222	2 667	1 396
Bentonite	tonnes	3 668	7 193	5 831	4 125	4 436
Bismuth						
Metal	tonnes	0	12	21	60	1
Cement						
Cement clinkers	tonnes	12 100	34 712	65 317	87 439	122 637
Portland cement	tonnes	206 164	159 514	49 204	24 791	41 196
Other cement	tonnes	15 136	22 371	22 214	13 618	13 338
Coal						
Anthracite	tonnes	48 783	117 406	21 961	21 083	26 932
Other coal	tonnes	512 663	169 990	117 867	339 450	178 480
Lignite	tonnes	87 707	165 417	206 384	163 191	117 979
Briquettes	tonnes	62	12 986	53 028	61 330	21 867
Cobalt						
Metal	tonnes	3	17	64	39	65
Copper						
Unwrought	tonnes	63 684	54 258	54 080	54 806	58 503
Scrap	tonnes	20 017	29 253	43 607	33 690	35 548
Diamond						
Unsorted	Carats	910 000	525 000	135 000	685 000	305 000
Gem, rough	Carats	558 241	292 617	* 86 000	* 49 000	...
Gem, cut	Carats	7 000 000	2 000 000	4 500 000	4 000 000	1 140 000
Industrial	Carats	4 375 000	3 680 000	2 150 000	220 000	380 000
Dust	Carats	(a)* 245 000	200 435	(a)* 125 000	(a)* 100 000	(a)* 165 000
Diatomite	tonnes	668	623	647	424	557
Feldspar	tonnes	12 195	9 469	20	6 128	8 643
Fluorspar	tonnes	2 652	3 073	2 104	1 349	1 606
Gold						
Metal	kilograms	1 055	500	346	12 373	6 793
Graphite	tonnes	219	92	68	64	103
Gypsum						
Crude and calcined	tonnes	1 759	1 400	3 714	4 576	6 799
Iodine	kilograms	1 300	200	300	753	200
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 427	9 127	470	2 615	7 369
Sponge and powder	tonnes	5 772	3 302	429	680	697
Ferro-chrome	tonnes	693	1 217	1 304	1 174	1 425
Ferro-manganese	tonnes	837	271	203	162	197
Ferro-silico-manganese	tonnes	18 515	12 695	10 971	12 124	10 415
Ferro-silicon	tonnes	4 888	4 361	2 924	2 623	2 496
Other ferro-alloys	tonnes	849	167	156	401	838
Silicon metal	tonnes	1 426	1 746	1 212	1 487	1 779
Ingots, blooms, billets	tonnes	28 092	71 878	17 546	45 081	34 204
Scrap	tonnes	1 008 235	935 510	413 394	301 661	457 959
Kaolin	tonnes	31 132	14 336	7 454	8 808	8 254
Lead						
Unwrought	tonnes	11 149	16 980	17 028	16 937	22 195
Scrap	tonnes	1 692	2 136	2 183	915	1 032
Magnesite and magnesia						
Magnesite	tonnes	3 603	14 704	14 475	21 012	15 425
Magnesia	tonnes	2 198	7 506	1 442	882	899
Manganese						
Ores and concentrates	tonnes	22 888	51 374	26 294	22 943	22 304
Metal	tonnes	292	175	855	1 029	1 623
Mercury	kilograms	211	1 200	7 500	900	2 400
Mica	tonnes	169	175	155	211	165
Crude petroleum	tonnes	19 064 118	13 010 825	20 102 882	20 292 638	20 907 404
Natural gas	tonnes	3 520 510	4 233 660	3 927 266	2 835 500	2 127 817
Phosphate rock	tonnes	252 644	220 591	140 205	156 936	182 902
Platinum metals						
Platinum and platinum metals	kilograms	500	1 400	900	400	183



## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Potash						
Sulphate	tonnes	39 155	26 686	26 621	24 778	19 421
Chloride	tonnes	35 176	27 276	19 735	19 026	36 912
Other potassic fertilisers	tonnes	3 240	8 166	2 947	2 276	192
Rare earths						
Rare earth compounds	tonnes	3	4	11	12	3
Ferro-cerium and other pyrophoric alloys	tonnes	65	62	169	20	1
Salt	tonnes	144 367	173 050	154 435	146 686	117 853
Sillimanite minerals	tonnes	44	220	94	425	1 008
Silver						
Metal	kilograms	29 900	55 100	51 900	68 500	55 200
Sulphur and pyrites						
Sulphur	tonnes	42 673	80 976	31 788	38 372	20 225
Talc	tonnes	8 869	8 663	13 779	8 123	9 855
Tin						
Unwrought (b)	tonnes	160	211	70	46	82
Titanium						
Titanium minerals	tonnes	504	396	220	275	292
Metal	tonnes	74	74	47	260	141
Oxides	tonnes	19 003	19 447	12 378	16 796	16 158
Zinc						
Unwrought	tonnes	20 735	9 706	9 762	8 833	6 619
Unwrought alloys	tonnes	1 799	1 652	1 579	1 062	1 025

## Note(s)

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

(b) Including alloys

## Hungary

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	25 059 000	23 361 598	* 22 250 000	* 27 252 746	* 42 445 000
Crushed rock	tonnes	11 390 100	9 128 819	* 9 000 000	* 7 483 894	* 8 477 000
Bauxite	tonnes	307 000	277 800	255 000	93 700	14 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	* 139 000	* 132 000	* 111 000	* 81 000	* 1 000
Bentonite	tonnes	17 200	22 931	1 392	7 397	* 10 500
Cement						
Cement, clinker	tonnes	* 1 500 000	1 167 942	1 332 354	1 065 349	* 1 100 000
Cement, finished	tonnes	* 2 560 000	* 2 200 000	* 2 300 000	* 2 300 000	* 2 200 000
Coal						
Lignite	tonnes	8 202 859	8 800 783	8 438 000	8 834 000	8 918 000
Brown coal	tonnes	813 403	699 129	875 944	718 700	636 000
Diatomite	tonnes	1 197	1 309	1 229	456	* 500
Gypsum (a)	tonnes	20 000	3 000	—	—	—
Pig iron	tonnes	1 325 000	1 315 000	1 229 000	600 000	801 000
Crude steel	tonnes	1 681 000	1 729 000	1 543 000	883 000	1 152 000
Manganese	tonnes	55 000	58 000	51 000	35 000	51 000
Perlite	tonnes	70 990	70 900	72 364	64 944	* 65 000
Crude petroleum	tonnes	735 900	657 000	700 931	626 890	* 600 000
Natural gas	million m <sup>3</sup>	2 600	2 315	2 205	2 028	2 055
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	55 000	60 000	65 000	58 000	* 54 000

## Notes

(a) Including anhydrite

(b) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 191 521	1 137 425	1 003 456	1 122 883	1 144 496
Aluminium and bauxite						
Bauxite	tonnes	738	207	208	548	10 479
Alumina	tonnes	112 819	107 937	99 699	78 432	60 677
Alumina hydrate	tonnes	92 011	71 834	64 000	51 224	43 330
Unwrought (a)	tonnes	41 719	38 819	36 491	39 897	44 072
Scrap	tonnes	51 508	66 599	68 156	78 773	75 901
Barytes						
Barium minerals	tonnes	...	...	180	2 034	209
Bentonite	tonnes	954	782	1 047	813	577
Cement						
Cement clinkers	tonnes	296	25	203 686	8 551	8 515
Portland cement	tonnes	185 279	277 497	269 382	231 601	215 190
Other cement	tonnes	795	6 451	1 363	11 762	2 201
Coal						
Anthracite	tonnes	9 151	5 077	210	11	24
Other coal	tonnes	683	476	208	42 521	200
Lignite	tonnes	3 390	4 886	4 539	14 179	24 593
Copper						
Unwrought, refined	tonnes	24	786	5 867	10 432	4 448
Unwrought alloys	tonnes	571	1 120	476	294	630
Scrap	tonnes	15 319	31 459	37 048	35 024	31 929
Diamond						
Unsorted	Carats	4 000 000	5 500 000	3 500 000	...	—
Dust	Carats	...	9 500 000	14 500 000	14 000 000	7 000 000
Gold						
Metal	kilograms	1 827	2 214	2 529	2 535	900
Waste and scrap	kilograms	2 221 600	2 665 300	2 115 900	11 900	17 200

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Gypsum						
Crude and calcined	tonnes	17 367	44 845	59 059	27 914	33 284
Iodine	kilograms	...	...	92 300	40 900	—
Iron ore	tonnes	52 400	64 435	63 373	11 382	2 009
Iron, steel and ferro-alloys						
Ferro-alloys	tonnes	104	207	272	112	140
Silicon metal	tonnes	...	4 317	2 887	1 809	5
Ingots, blooms, billets	tonnes	9 274	44 796	7 260	14 694	24 832
Scrap	tonnes	1 132 142	1 272 473	1 171 610	1 109 969	1 050 496
Kaolin	tonnes	2 436	3 272	2 861	2 753	2 980
Lead						
Scrap	tonnes	1 898	2 428	1 615	2 942	2 851
Magnesite and magnesia						
Magnesia	tonnes	...	317	309	643	172
Mercury	kilograms	6 400	10 700	6 500	22 800	4 100
Crude petroleum	tonnes	...	...	1 353	65 964	15 294
Natural gas	tonnes	—	—	417 151	829 105	756 154
Platinum metals						
Platinum and platinum metals	kilograms	211	158	—	118	9 418
Waste and scrap	kilograms	92 300	91 200	149 100	36 600	14 000
Potash						
Potassic fertilisers	tonnes	5 697	5 805	7 664	13 513	11 998
Salt	tonnes	1 356	39 405	14 663	9 460	7 805
Sillimanite minerals	tonnes	7 505	8 180	6 335	7 641	6 599
Silver						
Metal	kilograms	3 300	29 200	4 000	8 200	24 200
Sulphur and pyrites						
Sulphur	tonnes	44 098	48 616	43 855	49 438	56 509
Talc	tonnes	173	51	69	413	26
Tin						
Unwrought (a)	tonnes	44	43	41	62	132
Scrap	tonnes	196	222	268	234	288
Titanium						
Metal	tonnes	55	37	68	48	53
Oxides	tonnes	1 942	1 484	1 298	1 871	2 002
Tungsten						
Metal	tonnes	54	53	99	76	68
Zinc						
Unwrought (a)	tonnes	405	527	264	148	1 750
Scrap	tonnes	2 821	2 314	1 897	1 755	2 169

Note(s)

(a) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	473 730	369 445	515 141	1 028 054	1 331 433
Aluminium and bauxite						
Bauxite	tonnes	244 095	254 039	142 246	146 245	1 282
Alumina	tonnes	22 660	36 305	42 371	51 768	59 050
Alumina hydrate	tonnes	6 856	9 123	7 382	69 615	160 273
Unwrought	tonnes	146 221	135 392	129 030	130 942	150 333
Unwrought alloys	tonnes	165 833	190 175	181 695	187 798	166 679
Scrap	tonnes	43 720	59 661	47 904	35 042	37 391
Antimony						
Oxide	tonnes	156	148	173	196	180
Barytes						
Barium minerals	tonnes	1 441	2 852	516	1 106	1 232
Bentonite	tonnes	4 360	4 648	6 527	10 490	9 969
Bismuth						
Metal	tonnes	106	50	43	35	46
Bromine	kilograms	4 500	8 800	5 600	9 300	10 200

## Hungary

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Cement</b>						
Cement clinkers	tonnes	69 469	67 770	43 196	68 506	128 882
Portland cement	tonnes	495 045	785 166	710 516	978 968	1 019 495
Other cement	tonnes	34 191	33 802	6 809	27 678	27 360
<b>Chromium</b>						
Metal	tonnes	82	99	95	130	172
<b>Coal</b>						
Hard coal (a)	tonnes	1 744 778	1 570 645	1 556 689	1 366 089	1 439 839
Lignite	tonnes	297 335	318 792	224 685	187 326	139 549
Briquettes	tonnes	14 352	11 018	21 885	31 443	17 784
<b>Copper</b>						
Unwrought, unrefined	tonnes	772	1 272	1 502	1 102	1 114
Unwrought, refined	tonnes	1 624	2 076	8 281	10 733	4 474
Unwrought alloys	tonnes	1 241	1 471	1 434	1 036	1 006
Scrap	tonnes	4 038	5 416	4 831	3 942	3 907
<b>Diamond</b>						
Gem, cut	Carats	£280 000	£657 000	£421 000	£80 000	£123 000
Industrial	Carats	£168 000	£675 000	£346 000	£153 000	£55 000
Dust	Carats	(b)* 8 910 000	(b)* 12 690 000	14 500 000	14 000 000	7 000 000
Diatomite	tonnes	957	1 189	885	649	689
Feldspar	tonnes	14 235	14 211	13 905	10 755	15 329
Fluorspar	tonnes	2 662	4 152	3 014	3 984	3 326
<b>Gold</b>						
Metal	kilograms	396	1 512	* 1 500	1 898	788
<b>Gypsum</b>						
Crude	tonnes	5 362	5 198	5 241	3 608	2 777
Calcined	tonnes	12 413	18 039	24 138	31 969	35 398
Iodine	kilograms	2 700	6 100	4 000	8 000	12 600
Iron ore	tonnes	1 985 510	1 780 865	(c) 1 632 969	(c) 845 366	1 267 611
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	7 158	5 662	5 527	5 079	8 122
Ferro-chrome	tonnes	187	223	279	323	229
Ferro-manganese	tonnes	12 015	16 011	12 255	5 753	8 770
Ferro-silico-manganese	tonnes	724	1 785	225	1 191	1 553
Ferro-molybdenum	tonnes	85	105	108	89	141
Ferro-niobium	tonnes	75	141	111	71	116
Ferro-phosphorus	tonnes	652	60	111	161	249
Ferro-silicon	tonnes	3 630	3 999	2 969	2 275	2 429
Other ferro-alloys	tonnes	569	312	410	263	545
Silicon metal	tonnes	4 010	7 832	5 619	4 061	2 563
Ingots, blooms, billets	tonnes	30 505	240 299	565 955	1 156 777	727 071
Scrap	tonnes	56 974	68 566	34 219	51 899	75 819
Kaolin	tonnes	24 175	29 736	23 099	26 053	30 157
<b>Lead</b>						
Unwrought	tonnes	6 138	9 497	11 372	8 710	9 751
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	1 331	1 499	1 124	1 351	722
Magnesia	tonnes	6 783	4 369	4 739	6 291	6 444
<b>Manganese</b>						
Ores and concentrates	tonnes	198	159	142	304	229
Metal	tonnes	336	461	500	589	659
Mercury	kilograms	5 000	8 400	6 100	5 400	6 900
<b>Molybdenum</b>						
Metal	tonnes	70	60	51	60	59
<b>Nickel</b>						
Unwrought	tonnes	(d) 346	(d) 35	(d) 47	(d) 159	302
Natural gas	tonnes	5 858 735	5 788 348	5 509 482	6 064 192	7 844 861
Crude petroleum	tonnes	5 310 899	5 935 772	5 489 453	5 741 800	6 057 010
Phosphate rock	tonnes	1 305	1 028	312	215	24
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	1 300	84	—	38	29
<b>Potash</b>						
Chloride	tonnes	90 063	98 351	106 292	127 342	133 156
Other potassic fertilisers	tonnes	5 760	6 161	5 449	5 141	7 798
<b>Rare earths</b>						
Cerium compounds	tonnes	38	33	31	20	42
Other rare earth compounds	tonnes	31	23	31	11	15

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Salt	tonnes	704 143	800 950	540 297	841 520	599 639
Sillimanite minerals						
Sillimanite minerals	tonnes	2 100	2 903	3 039	2 515	4 165
Mullite	tonnes	1 348	1 854	1 352	1 364	1 174
Silver						
Metal	kilograms	196 500	234 100	229 700	232 900	331 700
Sulphur and pyrites						
Sulphur	tonnes	3 189	1 100	981	934	1 066
Sulphur, sublimed and precipitated	tonnes	119	223	172	7	224
Talc	tonnes	6 786	6 226	5 319	6 010	5 438
Tantalum and niobium						
Tantalum	tonnes	32	0	0	0	2
Tin						
Unwrought (d)	tonnes	231	156	205	253	227
Titanium						
Titanium minerals	tonnes	2 677	2 410	3 038	3 254	3 214
Metal	tonnes	84	134	116	143	149
Oxides	tonnes	8 927	8 885	7 325	8 809	9 606
Tungsten						
Metal	tonnes	54	67	56	78	70
Zinc						
Unwrought	tonnes	8 806	9 478	9 838	8 660	10 895
Unwrought alloys	tonnes	2 961	3 340	3 018	3 479	4 579
Zirconium						
Concentrates	tonnes	2 455	1 765	1 965	1 444	1 209

## 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	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	201 280	221 920	232 112	291 384	* 291 000
Primary aluminium	tonnes	825 803	780 853	802 827	736 429	748 949
Ferro-alloys						
Ferro-silicon	tonnes	114 230	120 076	131 818	125 204	109 739

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	44 512	85 854	92 094	81 265	53 105
Aluminium and bauxite						
Unwrought	tonnes	812 981	765 999	787 071	788 366	699 341
Scrap	tonnes	10 136	6 397	3 799	3 672	6 062
Cement						
Portland cement	tonnes	4	146	1	35	—
Iron, steel and ferro-alloys						
Ferro-silicon	tonnes	114 231	120 076	131 818	125 204	112 657
Other ferro-alloys	tonnes	5 603	6	0	0	0
Ingots, blooms, billets	tonnes	...	0	1	1	4 485
Scrap	tonnes	37 328	38 954	28 581	40 564	48 112
Salt	tonnes	1 093	1 402	694	1 228	1 356

### Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	6 492	7 524	32 327	14 981	28 860
Aluminium and bauxite						
Alumina	tonnes	1 612 188	1 539 080	1 590 521	1 646 175	1 583 285
Unwrought (a)	tonnes	6 127	5 560	1 356	1 968	7 288
Bentonite	tonnes	432	563	281	304	46
Cement						
Portland cement	tonnes	24 481	26 714	64 565	82 861	95 935
Other cement	tonnes	4 405	226	229	255	242
Coal						
Anthracite	tonnes	101 220	103 822	103 989	125 109	100 096
Other coal (b)	tonnes	* 115 000	* 228 000	* 115 000	* 59 000	* 127 000
Diamond						
Gem, cut	Carats	110 592	90 000	160 000	210 000	230 000
Industrial	Carats	* 76 000	125 000	75 000	105 000	70 000
Gypsum						
Crude and calcined	tonnes	2 771	1 073	872	932	1 763
Iodine	kilograms	9	24	278	159	1 316
Iron ore	tonnes	36 318	42 846	19 251	22 916	11 088
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 148	841	844	792	1 833
Ferro-alloys	tonnes	6 838	204	727	69	134
Silicon metal	tonnes	4 366	3 204	4 816	6 377	7 469
Scrap	tonnes	11 545	4 680	7	173	4 516
Magnesite and magnesia	tonnes	1	3	2	365	232
Rare earths						
Metals	tonnes	350	77	...	...	...
Salt	tonnes	65 342	94 177	100 020	84 266	88 758

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Silver Metal	kilograms	909	700	640	399	489
Titanium Metal	tonnes	100	59	75	80	154

## Note(s)

(a) Including alloys

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

## Ireland, Republic of

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	* 10 000 000	* 7 000 000	* 7 000 000	* 7 000 000	7 000 000
Crushed rock	tonnes	* 40 000 000	* 25 000 000	* 22 000 000	* 22 000 000	22 000 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	1 211 600	1 249 300	1 250 600	1 264 689	1 270 784
Cement						
Cement, finished	tonnes	* 2 290 000	* 1 700 000	1 573 000	1 450 000	1 500 000
Gypsum	tonnes	* 300 000	* 300 000	* 200 000	* 200 000	* 300 000
Lead, mine	tonnes (metal content)	39 100	50 700	47 400	42 950	40 500
Lead, refined	tonnes	19 000	18 000	16 000	17 000	17 200
Natural gas (a)	million m <sup>3</sup>	402	357	381	343	354
Silver	kilograms (metal content)	3 818	6 109	9 454	7 822	6 436
Zinc, mine	tonnes (metal content)	342 500	344 000	337 500	326 700	282 600

## Notes

(a) Sales

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	13 318	16 005	88 530	147 770	129 518
Aluminium and bauxite						
Alumina	tonnes	1 542 563	1 794 148	1 616 065	1 867 541	1 846 540
Alumina hydrate	tonnes	124 803	103 631	30 328	55 265	111 513
Unwrought alloys	tonnes	2 576	3 109	2 684	3 095	3 148
Scrap	tonnes	22 810	29 261	24 137	29 763	25 260
Cement						
Cement clinkers	tonnes	1	—	16 698	0	—
Portland cement	tonnes	1 025 910	942 940	1 238 718	1 234 596	1 524 566
Other cement	tonnes	8 787	1 158	971	1 074	595
Coal						
Hard coal	tonnes	5 820	(a) 2 857	18 914	(a) 35 038	27 286
Briquettes	tonnes	12 695	11 333	12 115	12 113	11 352
Cobalt						
Ore	tonnes	184	68	177	144	162
Metal	tonnes	234	125	234	272	310
Copper						
Scrap	tonnes	13 172	10 168	10 046	9 601	10 287
Diamond						
Gem, rough	Carats	10 000	100 000	—	5 000	—
Gem, cut	Carats	345 000	260 000	600 000	405 000	520 000
Industrial	Carats	58 658	2 801 447	460 000	3 170 000	625 000
Dust	Carats	65 787 012	283 458 829	...	69 945 000	114 610 000
Gold						
Waste and scrap	kilograms	10 480	9 268	68 063	179 072	24 283
Gypsum						
Crude	tonnes	23 355	5 390	5 176	7 039	8 025
Calcined	tonnes	15 129	21 274	16 585	16 699	18 723
Iodine	kilograms	—	2 589	—	—	—
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	...	18 709	150	1 268	653
Ingots, blooms, billets	tonnes	262	9 240	510	425	887
Scrap	tonnes	484 871	609 985	517 800	447 391	447 669
Lead						
Ores and concentrates	tonnes	62 729	64 470	80 910	70 125	71 545
Scrap	tonnes	638	4 144	42 384	30 813	39 993
Magnesite and magnesia						
Magnesite	tonnes	3 383	18 665	13 218	4 114	16 568
Magnesia	tonnes	33 334	11 761	3 465	41 749	61 343



## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Nickel						
Scrap	tonnes	557	269	208	188	162
Crude petroleum	tonnes	96	46 629	62	—	—
Platinum metals						
Platinum and platinum metals	kilograms	* 213	* 295	* 268	549	984
Waste and scrap	kilograms	5 440	1 763	3 496	1 775	2 012
Rare earths						
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	14	5
Salt	tonnes	10 183	1 540	2 608	2 656	3 549
Silver						
Metal	kilograms	...	263	824	608	666
Tin						
Unwrought	tonnes	(b) 689	—	—	—	—
Scrap	tonnes	59	54	43	45	227
Zinc						
Ores and concentrates	tonnes	588 143	660 259	647 444	615 916	531 029

## Note(s)

(a) Including anthracite

(b) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	652 594	695 162	817 052	840 968	963 667
Aluminium and bauxite						
Bauxite	tonnes	4 111 457	4 215 019	4 169 784	4 434 990	4 424 292
Alumina	tonnes	4 903	4 378	9 679	9 288	5 536
Antimony						
Metal	tonnes	64	0	0	0	0
Bentonite	tonnes	2 734	2 623	2 788	3 975	4 657
Bromine	kilograms	743	38 566	675	501	1 568
Cement						
Cement clinkers	tonnes	15 459	23 190	24 718	25 005	18 666
Portland cement	tonnes	133 977	100 440	86 608	87 458	103 491
Other cement	tonnes	4 974	4 112	4 375	5 793	4 229
Chromium						
Metal	tonnes	83	179	40	77	82
Coal						
Anthracite	tonnes	77 112	33 665	30 564	43 709	35 790
Other coal	tonnes	1 601 294	2 149 095	2 028 332	2 300 643	1 731 529
Lignite	tonnes	242	60	21 901	21 901	1 912
Briquettes	tonnes	31 507	30 673	46 258	91 158	87 980
Cobalt						
Metal	tonnes	756	601	743	701	3 117
Crude petroleum	tonnes	2 931 391	2 720 968	2 843 575	2 989 606	2 776 466
Diamond						
Unsorted	Carats	£362 000	£320 000	£164 000	£172 000	£1 109 000
Gem, rough	Carats	1 565 000	1 620 000	1 595 000	1 475 000	1 480 000
Gem, cut	Carats	11 385 000	6 745 000	3 905 000	3 305 000	2 300 000
Industrial	Carats	4 585 000	2 570 000	1 545 000	750 000	1 200 000
Dust	Carats	86 782 073	737 418 949	358 020 000	405 650 000	526 160 000
Diatomite	tonnes	640	699	965	683	439
Gold						
Metal	kilograms	£4 047 000	£5 356 000	£7 079 000	£11 757 000	£6 133 000
Gypsum						
Crude	tonnes	20 637	2 731	10 715	10 688	38 603
Calcined	tonnes	5 410	9 318	7 623	8 944	8 369
Iodine	kilograms	13 311	22 220	32 305	23 685	31 919

## Ireland, Republic of

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 345	946	797	797	131
Sponge and powder	tonnes	989	1 176	1 216	698	443
Ferro-chrome	tonnes	89	128	100	91	89
Other ferro-alloys	tonnes	296	233	139	213	161
Ingots, blooms, billets	tonnes	7 332	5 423	4 952	7 230	10 757
Scrap	tonnes	4 030	3 310	6 565	3 496	3 171
Kaolin	tonnes	4 039	3 414	3 377	3 489	3 457
Lead						
Unwrought	tonnes	14 357	15 345	5 199	2 916	3 586
Scrap	tonnes	12 074	12 305	14 089	16 874	16 884
Magnesite and magnesia						
Magnesite	tonnes	5 535	6 333	1 731	7 853	2 054
Magnesia	tonnes	39 638	49 122	48 779	43 182	44 472
Manganese						
Ores and concentrates (b)	tonnes	54	9 565	31	19	37
Mercury	kilograms	8 582	24	81	69	89
Mica	tonnes	77	24	32	43	1 151
Nickel						
Unwrought (a)	tonnes	1 503	1 748	568	409	181
Natural gas	tonnes	4 738 918	4 430 360	4 282 222	4 372 123	4 111 051
Phosphate rock	tonnes	5 328	264	327	55	3 476
Platinum metals						
Platinum and platinum metals	kilograms	9 470	7 826	13 879	15 171	41 557
Potash						
Chloride	tonnes	99 181	95 816	85 536	146 361	175 688
Other potassic fertilisers	tonnes	7 570	2 011	5 249	6 697	3 933
Rare earths						
Rare earth compounds	tonnes	8	85	3	2	4
Salt	tonnes	172 053	308 884	105 270	131 516	131 561
Silver						
Metal	kilograms	3 999	5 431	3 571	10 137	25 963
Talc	tonnes	1 140	1 320	3 033	2 982	3 303
Tantalum and niobium						
Tantalum	tonnes	85	0	1	0	1
Tin						
Unwrought (a)	tonnes	157	117	22	17	24
Titanium						
Metal	tonnes	414	202	432	1 297	1 558
Oxides	tonnes	4 922	4 312	3 924	4 044	4 207
Tungsten						
Metal	tonnes	91	76	121	101	141
Carbide	tonnes	68	186	116	113	76
Zinc						
Unwrought (a)	tonnes	2 104	2 358	2 058	2 481	2 579
Zirconium						
Concentrates	tonnes	16 162	886	146	268	231

## Note(s)

(a) Including alloys

(b) Including manganese iron ore

# Italy

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel (a)	tonnes	150 996 352	131 770 340	105 221 496	70 081 328	73 690 871
Crushed rock	tonnes	(a) 80 336 696	86 547 652	75 406 269	49 075 806	50 926 292
Primary aluminium	tonnes	129 500	141 900	99 600	—	—
Barytes	tonnes	* 3 500	* 3 500	* 3 500	* 3 500	* 3 500
Bentonite	tonnes	104 279	112 811	95 757	20 129	20 658
Cement						
Cement, clinker	tonnes	22 670 724	22 282 388	18 700 700	15 691 270	15 133 894
Cement, finished	tonnes	37 061 576	34 114 018	27 831 741	23 114 037	21 672 232
Copper, refined	tonnes	1 800	7 600	7 700	4 900	7 900
Feldspar	tonnes	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000
Gypsum (b)	tonnes	4 441 109	3 642 897	3 200 920	3 192 186	8 551 200
Indium	tonnes	* 5	* 5	* 5	* 5	* 5
Pig iron	tonnes	8 555 000	9 824 000	9 424 000	6 933 000	6 371 000
Crude steel	tonnes	25 750 000	28 735 000	27 252 000	24 093 000	23 714 000
Ferro-alloys						
Ferro-manganese	tonnes	* 25 000	* 25 000	* 27 000	* 27 000	* 27 000
Ferro-silico-manganese	tonnes	108 000	145 000	110 000	153 000	67 000
Kaolin	tonnes	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Lead, refined	tonnes	150 000	149 500	138 400	151 000	160 000
Perlite	tonnes	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Crude petroleum	tonnes	5 080 498	5 286 042	5 376 629	5 480 000	5 750 000
Natural gas	million m <sup>3</sup>	7 900	8 300	8 540	7 710	7 280
Salt						
Rock salt and brine salt	tonnes	4 006 882	2 912 128	2 862 440	2 672 340	2 560 441
Sulphur and pyrites						
Recovered (c)	tonnes (sulphur content)	124 200	65 400	58 800	40 200	* 40 200
Recovered (d)	tonnes (sulphur content)	600 000	620 000	540 000	510 000	* 510 000
Talc	tonnes	140 000	140 000	140 000	162 234	* 165 000
Slab zinc	tonnes	104 700	110 200	97 200	111 000	110 100

### Notes

(a) Sales

(b) Including anhydrite

(c) From metal sulphide processing

(d) From petroleum refining and/or natural gas

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 507 704	1 071 579	1 073 466	1 120 193	1 201 976
Aluminium and bauxite						
Bauxite	tonnes	66 218	46 330	93 847	169 411	88 289
Alumina	tonnes	17 056	16 821	3 424	4 411	7 746
Alumina hydrate	tonnes	4 346	7 023	6 448	7 809	4 263
Unwrought	tonnes	49 442	25 882	30 378	23 224	28 368
Unwrought alloys	tonnes	220 237	286 525	311 381	322 614	342 526
Scrap	tonnes	107 131	102 696	103 518	106 916	111 224
Antimony						
Ores and concentrates	tonnes	960	898	1 311	1 669	1 970
Metal	tonnes	19	80	2	7	61
Oxide	tonnes	226	261	215	399	450
Barytes						
Barium minerals	tonnes	1 906	2 623	4 898	4 427	5 735
Bentonite	tonnes	257 173	214 775	225 729	224 684	235 922
Bismuth						
Metal	tonnes	1	13	11	2	2
Cadmium						
Metal	tonnes	3 104	1 722	363	3	3

## Italy

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Cement</b>						
Cement clinkers	tonnes	52 673	45 472	47 155	129 335	206 598
Portland cement	tonnes	2 035 118	1 681 397	1 838 228	2 440 982	2 393 724
Other cement	tonnes	393 746	250 624	200 038	162 360	192 682
<b>Chromium</b>						
Ores and concentrates	tonnes	1 617	3 764	1 831	1 828	2 259
<b>Coal</b>						
Anthracite	tonnes	12 817	17 611	12 841	13 515	19 808
Other coal	tonnes	1 485	571	53 107	1 953	378
Briquettes	tonnes	3 923	213	798	45	—
<b>Cobalt</b>						
Metal	tonnes	187	230	177	184	242
Oxides	tonnes	206	224	188	390	422
<b>Copper</b>						
Matte and cement	tonnes	61	1	333	1 041	5 550
Unwrought, unrefined	tonnes	7 290	8 502	7 811	5 612	7 354
Unwrought, refined	tonnes	8 648	13 506	21 312	12 227	4 818
Unwrought alloys	tonnes	15 553	20 024	21 264	17 927	20 878
Scrap	tonnes	167 424	174 068	181 600	172 601	174 345
<b>Diamond</b>						
Unsorted	Carats	210 000	205 000	2 880 000	* 2 600 000	1 165 000
Gem, rough	Carats	15 000	—	120 000	370 000	2 595 000
Gem, cut	Carats	243 170	181 572	12 605 000	86 540 000	92 205 000
Industrial	Carats	250 000	285 000	1 585 000	18 865 000	11 890 000
Dust	Carats	15 054 770	14 873 656	10 850 000	7 825 000	6 280 000
<b>Diatomite</b>						
	tonnes	6 716	2 226	1 229	1 458	1 373
<b>Feldspar</b>						
	tonnes	194 763	288 246	220 404	261 124	235 591
<b>Fluorspar</b>						
	tonnes	6 740	28 942	48 048	54 013	67 401
<b>Gold</b>						
Metal	kilograms	109 762	176 952	200 363	138 471	103 143
Waste and scrap	kilograms	154 845	1 006	7 001	10 283	3 990
<b>Graphite</b>						
	tonnes	798	512	310	233	281
<b>Gypsum</b>						
Crude	tonnes	12 035	9 614	8 383	35 889	289 213
Calcined	tonnes	18 484	39 465	79 661	84 696	186 856
<b>Iodine</b>						
	kilograms	24 722	20 112	22 559	26 637	128 186
<b>Iron ore (a)</b>						
	tonnes	8 779	6 742	14 191	18 697	2 510
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	38 026	22 412	51 911	39 597	49 144
Sponge and powder	tonnes	729	1 534	3 904	3 571	6 151
Ferro-chrome	tonnes	5 020	5 639	3 399	4 180	5 291
Ferro-silico-chrome	tonnes	48	57	—	—	122
Ferro-silico-magnesium	tonnes	33	27	114	527	92
Ferro-manganese	tonnes	9 186	9 761	11 603	8 233	9 372
Ferro-silico-manganese	tonnes	4 316	3 890	15 215	15 371	20 285
Ferro-molybdenum	tonnes	149	41	1 048	368	607
Ferro-nickel	tonnes	176	215	52	186	285
Ferro-silicon	tonnes	6 329	8 642	7 741	10 028	10 964
Ferro-vanadium	tonnes	6	124	324	78	335
Other ferro-alloys	tonnes	809	770	644	923	748
Silicon metal	tonnes	3 284	4 293	1 621	1 246	2 902
Ingots, blooms, billets	tonnes	909 562	908 493	831 477	702 422	653 960
Scrap	tonnes	422 731	317 626	324 451	253 587	268 714
<b>Kaolin</b>						
	tonnes	36 208	27 994	21 393	24 241	29 178
<b>Lead</b>						
Unwrought	tonnes	7 821	15 455	8 646	7 058	22 609
Scrap	tonnes	9 776	10 173	14 804	11 681	12 877
<b>Lithium</b>						
Carbonate	tonnes	49	105	73	84	133
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	2 535	3 236	2 902	2 305	3 372
Magnesia	tonnes	7 393	6 194	7 283	7 237	6 997
<b>Manganese</b>						
Metal	tonnes	716	963	897	600	470
<b>Mercury</b>						
	kilograms	202 273	68 623	12 706	8 743	1 322
<b>Mica</b>						
	tonnes	697	1 014	1 138	1 336	1 440

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Molybdenum</b>						
Ores and concentrates	tonnes	1 523	2 299	3 153	2 503	6 023
Metal	tonnes	911	443	409	76	728
Oxides	tonnes	443	286	22	126	139
<b>Nickel</b>						
Unwrought (b)	tonnes	2 408	2 097	2 182	2 766	2 898
Scrap	tonnes	3 537	627	1 260	710	926
Crude petroleum	tonnes	423 777	713 237	920 740	573 665	617 854
Natural gas	tonnes	1 427 161	159 619	143 244	190 849	155 899
Phosphate rock	tonnes	10 751	16 139	8 370	8 614	7 696
<b>Platinum metals</b>						
Platinum	kilograms	10 408	9 982	10 071	9 791	12 296
Platinum metals	kilograms	12 684	14 436	16 259	23 339	36 220
Waste and scrap	kilograms	634	37 750	2 899	6 425	22 415
<b>Potash</b>						
Potassic fertilisers	tonnes	13 629	8 702	8 551	9 426	9 698
<b>Rare earths</b>						
Metals	tonnes	101	145	111	100	80
Rare earth compounds	tonnes	236	322	353	319	250
Ferro-cerium and other pyrophoric alloys	tonnes	...	3	6	4	3
Salt	tonnes	919 673	1 017 938	473 826	776 645	459 773
<b>Silver</b>						
Ores and concentrates	kilograms	38	—	1	112	3 538
Metal	kilograms	715 501	995 384	979 652	1 024 151	1 027 173
<b>Sulphur and pyrites</b>						
Pyrites	tonnes	13 698	16 032	11 114	13 741	13 208
Sulphur	tonnes	286 954	285 891	249 274	212 188	146 971
Sulphur, sublimed and precipitated	tonnes	22 485	55 740	17 021	5 279	20 028
Talc	tonnes	143 236	135 418	140 618	144 432	141 343
<b>Tin</b>						
Unwrought (b)	tonnes	367	383	582	869	370
Scrap	tonnes	289	243	240	266	164
<b>Titanium</b>						
Metal	tonnes	3 248	4 789	4 531	4 756	5 315
Oxides	tonnes	27 450	26 181	22 039	37 137	35 730
<b>Tungsten</b>						
Ores and concentrates	tonnes	...	...	0	0	62
Metal	tonnes	925	1 091	1 060	687	858
<b>Vanadium</b>						
Metal	tonnes	37	1	...	...	477
<b>Zinc</b>						
Ores and concentrates	tonnes	98 211	71 471	84 569	89 580	68 508
Unwrought	tonnes	11 071	16 570	14 737	8 016	11 199
Unwrought alloys	tonnes	6 377	9 385	10 029	8 415	7 417
Scrap	tonnes	16 427	13 006	7 151	7 019	10 416
<b>Zirconium</b>						
Concentrates	tonnes	41 784	44 252	11 012	2 832	3 500
Metal	tonnes	136	34	137	27	17

## Note(s)

(a) Including burnt pyrites

(b) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	3 057 378	2 135 306	966 588	1 035 371	558 871
Aluminium and bauxite						
Bauxite	tonnes	62 666	45 146	55 504	31 679	52 264
Alumina	tonnes	252 028	406 774	292 537	122 812	131 876
Alumina hydrate	tonnes	198 253	205 274	180 778	199 553	196 890
Unwrought	tonnes	432 393	482 850	355 557	465 484	532 070
Unwrought alloys	tonnes	488 002	563 882	489 373	520 800	582 184
Scrap	tonnes	372 686	461 302	444 544	448 220	510 101
Antimony						
Ores and concentrates	tonnes	1 378	1 169	1 474	1 964	2 347
Metal	tonnes	233	298	132	332	188
Oxide	tonnes	5 460	4 227	3 538	3 201	3 284
Arsenic						
Metallic arsenic	tonnes	19	74	33	81	1
Barytes						
Barium minerals	tonnes	67 303	88 574	69 098	93 846	66 352
Bentonite	tonnes	130 508	140 458	133 041	158 054	140 837
Bismuth						
Metal	tonnes	355	378	154	146	128
Bromine	kilograms	1 259 187	1 207 042	939 005	939 294	416 440
Cadmium						
Metal	tonnes	3	44	37	24	13
Cement						
Cement clinkers	tonnes	797 703	844 108	729 063	450 465	436 549
Portland cement	tonnes	1 298 080	1 119 225	998 392	804 854	664 331
Other cement	tonnes	139 459	125 066	106 926	108 775	93 431
Chromium						
Ores and concentrates	tonnes	22 012	31 861	30 547	28 069	24 772
Metal	tonnes	881	1 738	1 598	1 960	1 409
Coal						
Anthracite	tonnes	408 391	394 026	266 462	162 364	204 631
Other coal	tonnes	21 820 370	23 656 907	25 609 289	20 184 762	19 358 211
Briquettes	tonnes	6 233	3 857	1 905	3 975	3 847
Cobalt						
Metal	tonnes	477	758	609	744	786
Oxides	tonnes	707	719	679	901	759
Copper						
Unwrought	tonnes	628 325	615 251	583 215	559 334	622 721
Unwrought alloys	tonnes	14 679	15 910	14 795	16 689	18 652
Scrap	tonnes	129 074	148 358	137 709	151 708	178 256
Diamond						
Unsorted	Carats	£8 198 000	£8 652 000	£7 050 000	£9 648 000	£9 302 000
Gem, rough	Carats	60 000	115 000	175 000	28 050 000	38 335 000
Gem, cut	Carats	£285 718 000	£370 521 000	£338 455 000	£347 587 000	£429 445 000
Industrial	Carats	£7 993 000	£7 254 000	£4 318 000	£8 721 000	£9 094 000
Dust	Carats	196 860 000	248 520 000	252 160 000	306 965 000	395 715 000
Diatomite	tonnes	3 920	5 555	5 091	4 571	4 792
Feldspar	tonnes	1 951 827	1 954 499	1 905 805	1 855 315	1 831 264
Fluorspar	tonnes	200 184	246 374	232 908	232 279	249 889
Gold						
Metal	kilograms	149 022	175 415	195 214	175 188	145 409
Waste and scrap	kilograms	649	1 223	5 075	4 360	2 137
Graphite	tonnes	8 308	12 559	6 411	6 274	7 703
Gypsum						
Crude	tonnes	3 618	2 205	8 793	1 980	1 264
Calcined	tonnes	16 267	16 976	17 916	17 911	20 810
Iodine	kilograms	1 080 203	1 375 868	1 633 655	1 673 429	1 613 146
Iron ore	tonnes	12 092 237	15 134 122	13 396 809	11 522 381	9 510 836

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	1 018 615	1 288 014	1 106 558	1 517 045	1 689 784
Sponge and powder	tonnes	278 989	540 005	551 034	732 306	703 570
Ferro-chrome	tonnes	390 374	414 410	416 091	388 133	339 587
Ferro-silico-chrome	tonnes	97	841	3	99	83
Ferro-silico-magnesium	tonnes	1 943	1 683	2 125	2 586	2 086
Ferro-manganese	tonnes	71 406	86 512	82 933	86 923	72 526
Ferro-silico-manganese	tonnes	158 540	176 855	167 310	173 051	167 846
Ferro-molybdenum	tonnes	6 141	8 541	9 547	10 710	12 009
Ferro-nickel	tonnes	98 168	116 806	128 877	124 343	118 962
Ferro-niobium	tonnes	2 751	2 521	2 619	2 490	2 223
Ferro-phosphorus	tonnes	631	414	365	380	297
Ferro-silicon	tonnes	137 031	160 561	118 880	129 155	124 794
Ferro-titanium and ferro-silico-titanium	tonnes	3 876	3 819	3 139	2 418	2 574
Ferro-tungsten and ferro-silico-tungsten	tonnes	247	252	269	298	309
Ferro-vanadium	tonnes	1 901	2 330	2 367	2 011	1 885
Other ferro-alloys	tonnes	7 325	9 198	7 117	8 392	9 250
Silicon metal	tonnes	48 392	53 131	41 277	43 173	40 350
Ingots, blooms, billets	tonnes	3 681 439	3 662 856	3 169 000	3 198 102	3 126 871
Scrap	tonnes	4 609 403	5 752 270	5 271 612	4 957 195	5 144 643
Kaolin	tonnes	823 461	707 622	681 595	686 567	722 977
<b>Lead</b>						
Ores and concentrates	tonnes	20	0	9 419	39 748	73 037
Unwrought	tonnes	111 301	109 458	89 266	71 393	93 413
Scrap	tonnes	2 609	4 976	4 111	3 059	2 904
<b>Lithium</b>						
Oxides	tonnes	175	148	143	121	160
Carbonate	tonnes	1 123	1 369	1 052	1 241	1 116
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	21 454	27 347	13 774	8 223	5 153
Magnesia	tonnes	143 725	133 451	120 185	105 816	107 610
<b>Manganese</b>						
Ores and concentrates (a)	tonnes	55 284	81 629	107 907	27 243	27 243
Metal	tonnes	5 788	5 759	5 804	6 274	5 095
Mercury	kilograms	10 510	15 246	4 247	1 863	1 579
<b>Mica</b>						
Unmanufactured	tonnes	136	209	205	187	141
Ground	tonnes	3 854	3 849	3 489	3 329	3 572
<b>Molybdenum</b>						
Ores and concentrates	tonnes	9 108	5 248	4 794	5 394	5 310
Metal	tonnes	136	219	192	161	506
Oxides	tonnes	276	199	187	128	114
<b>Nickel</b>						
Mattes, sinters etc	tonnes	1	4	78	1 281	903
Unwrought	tonnes	39 586	38 075	33 635	28 985	30 904
Unwrought alloys	tonnes	1 171	1 314	2 626	9 793	6 651
Scrap	tonnes	1 063	656	899	1 330	1 554
Natural gas	tonnes	59 616 091	50 506 295	48 666 707	43 720 221	39 108 795
Crude petroleum	tonnes	76 729 305	72 173 373	68 812 837	57 467 112	52 923 689
Phosphate rock	tonnes	231 808	243 718	196 478	140 749	107 048
<b>Platinum metals</b>						
Platinum	kilograms	12 545	10 630	7 417	8 436	15 766
Palladium	kilograms	10 019	9 171	7 855	6 411	11 765
Other platinum metals	kilograms	1 694	1 084	1 244	782	3 203
Waste and scrap	kilograms	16 918	1 468	3 103	2 150	12 607
<b>Potash</b>						
Sulphate	tonnes	88 593	58 418	52 568	59 966	43 124
Chloride	tonnes	367 465	287 984	285 476	283 353	300 974
Other potassic fertilisers	tonnes	8 415	1 368	511	416	481
<b>Rare earths</b>						
Metals	tonnes	124	108	30	62	96
Cerium compounds	tonnes	597	616	337	565	220
Other rare earth compounds	tonnes	303	307	257	232	276
Ferro-cerium and other pyrophoric alloys	tonnes	10	3	3	1	3
Salt	tonnes	1 119 583	1 045 659	1 128 585	943 961	670 659

## Italy

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Sillimanite minerals						
Sillimanite minerals	tonnes	14 473	17 937	11 720	10 465	16 054
Mullite	tonnes	16 141	13 564	16 084	6 728	10 739
Silver						
Ores and concentrates	kilograms	70 440	31 391	11 644	102	547
Metal	kilograms	1 120 080	729 807	645 344	911 101	1 062 821
Sulphur and pyrites						
Pyrites	tonnes	13 538	29 746	10 436	12 808	27 135
Sulphur	tonnes	19 263	30 290	22 499	23 964	63 824
Sulphur, sublimed and precipitated	tonnes	758	732	887	5 066	1 283
Talc	tonnes	100 934	115 046	111 333	99 446	125 992
Tin						
Unwrought	tonnes	3 828	4 936	3 375	3 617	3 981
Unwrought alloys	tonnes	724	303	297	244	189
Scrap	tonnes	60	220	22	35	68
Titanium						
Titanium minerals	tonnes	98 978	111 842	(b)* 4 132	55 323	102 316
Metal	tonnes	4 497	9 420	7 367	6 065	6 630
Oxides	tonnes	160 361	164 708	137 976	143 083	155 263
Tungsten						
Metal	tonnes	496	552	656	482	606
Carbide	tonnes	279	440	240	380	531
Vanadium						
Pentoxide	tonnes	53	45	117	231	304
Zinc						
Ores and concentrates	tonnes	184 192	153 982	186 715	140 909	183 989
Unwrought	tonnes	245 254	244 557	164 716	142 457	143 426
Unwrought alloys	tonnes	34 595	39 554	31 434	48 303	49 733
Scrap	tonnes	27 740	36 491	36 134	39 614	50 413
Zirconium						
Concentrates	tonnes	98 214	81 360	40 897	56 430	55 743
Metal	tonnes	144	184	135	141	80

## Note(s)

(a) Including manganiferous iron ore

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



## Latvia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	6 016 126	7 855 125	8 358 839	7 297 980	12 361 256
Crushed rock	tonnes	1 375 197	2 050 976	2 072 775	2 664 580	2 229 552
Cement						
Cement, clinker	tonnes	1 158 000	1 277 000	1 485 720	* 1 500 000	* 1 500 000
Cement, finished	tonnes	* 1 100 000	* 1 100 000	* 1 100 000	* 1 100 000	* 1 200 000
Gypsum (a)	tonnes	176 510	215 950	252 714	272 340	* 280 000
Crude steel	tonnes	655 000	568 000	805 000	198 000	* 190 000

#### Notes

(a) Including anhydrite

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	101 406	59 930	19 683	49 235	76 856
Aluminium and bauxite						
Alumina	tonnes	140	64 225	115 744	14 622	85
Unwrought alloys	tonnes	14 493	21 793	18 481	9 196	8 870
Scrap	tonnes	5 461	4 414	4 876	4 771	7 090
Cement						
Cement clinkers	tonnes	68 802	201 050	163 102	26 930	2 019
Portland cement	tonnes	562 435	673 260	759 738	734 184	890 382
Other cement	tonnes	76	250	176	237	107
Coal						
Hard coal (a)	tonnes	3 136	26 100	13 823	32 847	44 891
Briquettes	tonnes	3 262	6 402	4 007	2 772	2 483
Copper						
Unwrought	tonnes	—	642	4 314	6 428	2 341
Unwrought alloys	tonnes	722	1 008	1 156	2 053	3 090
Scrap	tonnes	7 106	13 679	8 494	7 847	7 362
Gold						
Metal	kilograms	81	344	850	1 286	6 630
Gypsum						
Crude and calcined	tonnes	38 596	47 016	84 358	97 074	92 767
Iodine	kilograms	4 200	—	7 400	—	—
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	4 051	9 502	30 189	13 006	10 095
Ferro-silico-chrome	tonnes	...	...	233	121	6 849
Ferro-manganese	tonnes	794	1 132	515	679	44
Ferro-silico-manganese	tonnes	6 247	16 563	20 152	11 513	7 636
Ferro-silicon	tonnes	11 029	23 706	13 874	26 207	20 202
Ingots, blooms, billets	tonnes	2 442	5 045	72 535	32 687	629
Scrap	tonnes	396 794	563 192	507 285	468 154	477 810
Lead						
Scrap	tonnes	3 243	3 086	2 687	2 362	1 911
Nickel						
Scrap	tonnes	3 108	2 284	150	291	304
Crude petroleum	tonnes	524	42 208	45 767	5 690	105 267
Potash						
Chloride	tonnes	39	28	1 427	137	1 952
Potassic fertilisers	tonnes	357	535	1 344	1 070	1 092
Salt	tonnes	23 172	35 545	21 741	25 536	21 949
Silver						
Metal	kilograms	300	1 600	100	3 600	2 200
Tin						
Scrap	tonnes	175	8	2	3	2

Latvia

Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Titanium						
Metal	tonnes	7	61	42	2	1
Zinc						
Scrap	tonnes	587	459	779	821	838

Note(s)

(a) Including anthracite

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	467 414	611 872	895 335	1 212 414	1 155 283
Aluminium and bauxite						
Scrap	tonnes	7 828	10 381	10 956	13 929	9 794
Bentonite	tonnes	2 787	3 434	2 701	3 501	4 430
Cement						
Cement clinkers	tonnes	158	(a) 20	701	68	106
Portland cement	tonnes	94 873	89 751	108 596	137 815	168 013
Other cement	tonnes	643	281	306	229	267
Coal						
Anthracite	tonnes	1 273	12 649	5 111	3 903	455
Other coal	tonnes	180 075	185 516	152 423	132 348	123 639
Copper						
Unwrought	tonnes	4	1 074	1 689	90	410
Unwrought alloys	tonnes	708	1 079	2 621	4 103	1 848
Scrap	tonnes	2 942	3 855	5 014	8 145	6 402
Diatomite	tonnes	412	805	812	836	1 310
Feldspar	tonnes	577	561	1 292	1 522	1 114
Fluorspar	tonnes	678	775	1 269	811	598
Graphite	tonnes	1	1	3 813	4	3
Gypsum						
Crude	tonnes	22 669	33 495	48 578	45 012	60 286
Calcined	tonnes	2 027	2 787	2 523	1 918	3 153
Iodine	kilograms	140	272	252	708	19
Iron ore	tonnes	1	(b) 7 422	(b) 3 797	(b) 7 149	(b) 11 848
Iron, steel and ferro-alloys						
Pig iron	tonnes	45 454	2 244	2 653	1 163	897
Sponge and powder	tonnes	4 460	565	104	84	46
Ferro-chrome	tonnes	6 995	9 782	17 179	13 045	3 125
Ferro-manganese	tonnes	4 090	1 480	584	782	74
Ferro-silico-manganese	tonnes	18 898	17 085	25 026	10 122	7 564
Ferro-silicon	tonnes	24 660	25 992	15 963	25 583	20 428
Ferro-tungsten and ferro-silico-tungsten	tonnes	...	...	80	120	...
Other ferro-alloys	tonnes	158	245	119	51	174
Silicon metal	tonnes	1 553	981	1 134	879	459
Ingots, blooms, billets	tonnes	206 428	402 711	3 861	2 695	3 141
Scrap	tonnes	443 817	366 039	923 037	318 371	219 926
Kaolin	tonnes	10 594	9 289	10 768	12 151	12 593
Lead						
Scrap	tonnes	93	1 221	502	922	3 808
Magnesite and magnesia						
Magnesia	tonnes	5 524	2 735	12 507	3 596	1 328
Manganese						
Ores and concentrates	tonnes	27	92	97	200	201
Nickel						
Unwrought	tonnes	...	0	584	1	30
Crude petroleum	tonnes	376	1 453	99	2 575	67 892
Natural gas	tonnes	1 160 668	1 099 045	1 034 139	1 081 866	924 514
Platinum metals						
Waste and scrap	kilograms	(a)* 400	...	...	—	—
Potash						
Chloride	tonnes	6 414	3 468	8 694	9 043	9 881
Salt	tonnes	163 486	198 975	135 514	187 521	85 353

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Silver						
Metal	kilograms	791	2 300	1 400	7 900	2 400
Titanium						
Oxides	tonnes	739	693	640	586	699
Zinc						
Unwrought (c)	tonnes	383	249	662	402	3 637
Zirconium						
Concentrates	tonnes	...	...	165	352	540

## Note(s)

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

## Lithuania

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	5 655 401	5 776 850	5 081 166	6 930 916	7 164 096
Crushed rock	tonnes	3 281 330	4 456 089	3 241 831	3 801 100	4 084 594
Cement						
Cement, finished	tonnes	834 000	996 284	1 014 977	1 069 593	* 902 733
Crude petroleum	tonnes	114 464	113 895	101 644	86 054	80 862
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	73 470	76 699	73 040	81 449	76 594

#### Notes

(a) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	57 255	139 291	118 463	137 961	142 719
Aluminium and bauxite						
Alumina	tonnes	22	59	413	2 574	74
Unwrought alloys	tonnes	7 754	7 534	6 363	4 286	3 183
Scrap	tonnes	5 298	8 952	10 306	12 777	14 729
Bentonite	tonnes	442	1 628	1 386	1 530	1 947
Cement						
Portland cement	tonnes	352 750	450 601	529 457	604 824	362 762
Other cement	tonnes	1 151	406	36	280	1 411
Coal						
Hard coal (a)	tonnes	33 109	28 271	5 762	33 957	33 623
Copper						
Unwrought	tonnes	591	4 873	1 481	1 558	193
Scrap	tonnes	4 128	5 724	7 582	10 680	14 242
Diatomite	tonnes	551	615	234	280	254
Iodine	kilograms	4	8 900	3 000	6 900	800
Iron, steel and ferro-alloys						
Ferro-nickel	tonnes	...	...	1 336	635	1 044
Other ferro-alloys	tonnes	104	141	1 944	600	163
Scrap	tonnes	595 721	664 225	562 585	493 483	576 123
Kaolin	tonnes	40	648	1 258	258	311
Lead						
Scrap	tonnes	5 941	5 335	6 603	4 019	3 734
Magnesite and magnesia						
Magnesia	tonnes	717	352	350	294	239
Crude petroleum	tonnes	110 597	80 025	78 183	66 924	62 678
Phosphate rock	tonnes	—	—	20 000	—	—
Platinum metals						
Waste and scrap	kilograms	193 600	126 800	(b)* 153 000	(b)* 183 000	144 564
Potash						
Potassic fertilisers	tonnes	6 517	4 256	7 989	6 381	8 210
Rare earths						
Cerium compounds	tonnes	12	10	7	9	5
Salt	tonnes	19 031	13 514	7 653	19 753	21 680
Silver						
Metal	kilograms	1 100	1 600	2 900	3 100	700
Sulphur and pyrites						
Sulphur	tonnes	1 227	403	759	383	36 476
Talc	tonnes	350	111	126	232	40
Tantalum and niobium						
Tantalum	tonnes	9	18	10	6	3
Titanium						
Metal	tonnes	3	3	3	6	93
Oxides	tonnes	1 167	965	1 029	1 122	1 486

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Tungsten						
Ores and concentrates	tonnes	...	...	...	41	...
Metal	tonnes	—	178	18	17	53
Zinc						
Unwrought	tonnes	...	330	618	432	1 283

## Note(s)

(a) Including anthracite

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	849 462	1 046 066	991 388	1 678 898	2 028 733
Aluminium and bauxite						
Alumina	tonnes	16 411	26 876	23 690	21 348	12 813
Scrap	tonnes	2 460	6 014	3 238	3 682	2 721
Bentonite	tonnes	4 378	6 250	6 656	7 366	9 361
Cement						
Cement clinkers	tonnes	176 461	227 793	173 488	24 015	22
Portland cement	tonnes	122 178	144 824	147 329	199 114	281 613
Other cement	tonnes	390	502	479	671	1 555
Coal						
Anthracite	tonnes	3 616	24 260	62 934	3 435	6 713
Other coal	tonnes	313 355	368 099	256 651	416 369	325 951
Copper						
Unwrought	tonnes	596	4 652	1 251	472	618
Scrap	tonnes	436	634	2 505	5 696	7 662
Diatomite	tonnes	744	1 174	865	1 187	2 136
Feldspar	tonnes	6 265	10 278	6 700	1 405	1 478
Gold						
Waste and scrap	kilograms	—	64 453	12 202	—	15 800
Gypsum						
Crude	tonnes	54 772	63 632	64 379	82 504	72 310
Calcined	tonnes	17 377	18 503	19 211	19 504	25 502
Iodine	kilograms	17 732	20 100	3 200	2 000	400
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	51	39	6	38	106
Ferro-molybdenum	tonnes	—	3	936	3	5
Ferro-nickel	tonnes	...	674	986	—	1 044
Ferro-silicon	tonnes	102	40	40	46	34
Other ferro-alloys	tonnes	40	38	1 500	1 087	46
Ingots, blooms, billets	tonnes	4 270	5 384	4 536	7 537	8 864
Scrap	tonnes	35 270	71 858	59 444	30 690	35 161
Kaolin	tonnes	486	360	480	508	619
Lead						
Scrap	tonnes	4 459	5 755	1 892	3 350	982
Magnesite and magnesia						
Magnesia	tonnes	1 245	593	1 159	939	1 022
Molybdenum						
Metal	tonnes	65	37	45	6	18
Crude petroleum	tonnes	9 018 334	8 943 996	8 523 368	9 077 111	7 478 509
Natural gas	tonnes	2 048 906	2 385 268	2 265 929	1 954 603	1 760 365
Phosphate rock	tonnes	1 354 093	1 254 579	1 216 427	1 283 243	1 251 250
Platinum metals						
Waste and scrap	kilograms	76 400	64 600	4 800	59 500	98 000
Potash						
Sulphate	tonnes	2 581	7 069	6 267	4 521	3 127
Chloride	tonnes	32 552	35 602	52 573	46 394	60 786
Other potassic fertilisers	tonnes	4	112	1 837	98	162
Rare earths						
Rare earth compounds	tonnes	14	11	10	11	4

## Lithuania

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Salt	tonnes	209 506	246 724	154 780	225 754	130 638
Silver						
Metal	kilograms	6 300	7 800	9 200	11 300	13 200
Sulphur and pyrites						
Sulphur	tonnes	326 485	298 977	293 839	291 622	324 726
Tantalum and niobium						
Tantalum	tonnes	12	13	4	1	1
Tin						
Unwrought alloys	tonnes	...	1	—	1	143
Titanium						
Metal	tonnes	7	4	38	71	78
Oxides	tonnes	1 947	2 081	2 028	2 686	2 362
Tungsten						
Metal	tonnes	1	156	52	25	286
Zinc						
Unwrought (a)	tonnes	460	1 049	1 063	684	1 830

## Note(s)

(a) Including alloys

## Luxembourg

### Production

Commodity	Units	2010	2011	2012	2013	2014
Cement						
Cement, clinker	tonnes	736 000	770 232	* 740 000	* 710 000	* 700 000
Cement, finished	tonnes	1 030 700	1 232 633	1 177 000	1 127 000	1 057 000
Crude steel	tonnes	2 548 000	2 521 000	2 214 000	2 090 000	2 193 000

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	160 773	161 019	165 025	152 062	170 609
Aluminium and bauxite						
Unwrought alloys	tonnes	157 473	151 330	145 882	145 487	153 502
Scrap	tonnes	6 034	6 051	6 902	5 993	4 467
Cement						
Cement clinkers	tonnes	7 695	4 215	1	2	—
Portland cement	tonnes	341 075	424 306	321 903	407 310	399 064
Other cement	tonnes	219 688	320 980	338 240	216 961	195 342
Cobalt						
Metal	tonnes	1	305	1	1	—
Copper						
Scrap	tonnes	2 492	2 449	2 449	3 823	2 372
Diamond						
Dust	Carats	750 900	1 006 960	13 945 000	12 465 000	1 000 000
Gold						
Metal	kilograms	32 700	8 000	4 500	100	4 900
Gypsum						
Crude and calcined	tonnes	1 596	1 919	1 698	1 594	606
Iodine	kilograms	83 600	40 900	—	—	—
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	10 953	37 393	27 521	26 104	15 018
Scrap	tonnes	165 832	133 133	102 625	127 509	98 166
Magnesite and magnesia						
Magnesite	tonnes	943	1 325	1 171	1 081	778
Platinum metals						
Platinum and platinum metals	kilograms	243	197	469	477	—
Waste and scrap	kilograms	5 600	16 000	...	100	—
Silver						
Metal	kilograms	1 409	3 324	1 152	1 884	300
Titanium						
Metal	tonnes	20	17	17	151	164
Tungsten						
Metal	tonnes	203	47	0	0	3
Zinc						
Scrap	tonnes	1 134	739	698	690	790

### Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	2 118 047	2 309 583	2 047 389	2 232 322	2 834 047
Aluminium and bauxite						
Unwrought	tonnes	62 504	51 627	44 826	37 496	58 344
Unwrought alloys	tonnes	7 362	5 586	8 278	8 556	12 470
Scrap	tonnes	128 632	121 295	161 015	168 410	133 848
Asbestos						
Unmanufactured	tonnes	—	37	1	—	...

## Luxembourg

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Barytes						
Barium minerals	tonnes	17 182	17 049	12 350	6 827	5 728
Bentonite	tonnes	168	202	168	227	536
Cement						
Cement clinkers	tonnes	27 238	34 532	34 703	8 589	10 615
Portland cement	tonnes	34 642	42 548	37 740	67 220	103 013
Other cement	tonnes	12 119	14 934	15 382	11 592	13 447
Coal						
Anthracite	tonnes	24 834	16 256	10 994	10 869	10 465
Other coal	tonnes	76 133	73 322	69 623	62 674	73 527
Lignite	tonnes	7 090	7 710	8 620	3 483	3 687
Cobalt						
Metal	tonnes	163	811	80	113	130
Copper						
Scrap	tonnes	10 708	10 061	14 275	11 913	9 110
Diamond						
Unsorted	Carats	£20 000	£248 000	£262 000	£38 000	£23 000
Gem, cut	Carats	£418 000	£533 000	£861 000	£2 332 000	£1 664 000
Industrial	Carats	105 000	35 000	860 000	360 000	330 000
Dust	Carats	£609 000	£471 000	£562 000	£552 000	£491 000
Diatomite	tonnes	7 858	7 394	129	48	498
Fluorspar	tonnes	983	887	795	739	937
Gold						
Metal	kilograms	42 136	184 535	83 757	36 175	1 000
Waste and scrap	kilograms	1	69	10	114	6 014
Gypsum						
Crude	tonnes	50 104	69 918	63 994	61 079	63 371
Calcined	tonnes	10 715	18 459	24 216	19 003	17 069
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	910	1 317	1 193	1 032	2 028
Ferro-silico-manganese	tonnes	27 116	29 053	29 843	29 419	28 497
Ferro-niobium	tonnes	192	226	212	243	248
Ferro-silicon	tonnes	3 428	3 828	3 642	3 337	3 081
Ferro-titanium and ferro-silico-titanium	tonnes	33	63	81	108	394
Ferro-vanadium	tonnes	292	328	298	308	396
Other ferro-alloys	tonnes	581	788	716	942	757
Ingots, blooms, billets	tonnes	407 419	370 786	237 293	131 957	137 643
Scrap	tonnes	2 693 481	2 632 849	2 259 684	2 330 581	2 224 619
Kaolin	tonnes	904	563	736	1 046	705
Magnesite and Magnesite	tonnes	2 612	2 375	3 805	2 116	2 187
Natural gas	tonnes	3 591	3 077	1 441	—	1 188
Platinum metals						
Platinum and platinum metals	kilograms	1 633	438	329	301	1 798
Potash						
Potassic fertilisers	tonnes	1 681	1 167	1 252	1 832	1 722
Rare earths						
Rare earth compounds	tonnes	2	5	2	1	183
Ferro-cerium and other pyrophoric alloys	tonnes	11	0	—	—	—
Salt	tonnes	77 304	91 033	24 059	86 365	41 338
Silver						
Metal	kilograms	24 304	11 000	2 800	1 100	2 700
Sulphur and pyrites						
Sulphur	tonnes	2 166	1 789	1 432	1 604	1 845
Tantalum and niobium						
Tantalum	tonnes	1	1	1	52	1
Tin						
Scrap	tonnes	...	3	95	105	—
Titanium						
Metal	tonnes	456	1 842	786	1 898	1 039
Oxides	tonnes	1 481	1 534	1 494	13 393	15 235
Zinc						
Unwrought	tonnes	9 232	6 819	7 461	7 080	5 664



## Macedonia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Bentonite	tonnes	7 084	8 918	2 355	18 520	11 691
Coal						
Lignite	tonnes	6 583 074	7 902 084	7 309 546	6 633 560	6 469 819
Copper, mine	tonnes (metal content)	7 912	7 555	9 506	9 802	8 187
Copper, refined	tonnes	—	—	1 100	1 900	1 700
Feldspar	tonnes	23 188	25 032	17 168	15 168	18 076
Gypsum (a)	tonnes	143 118	162 984	157 844	162 661	156 492
Crude steel	tonnes	344 866	348 576	225 224	145 633	196 454
Ferro-alloys						
Ferro-silico-manganese	tonnes	36 705	50 756	14 179	—	—
Ferro-nickel	tonnes	14 413	17 292	19 247	20 001	18 054
Ferro-silicon	tonnes	30 044	56 167	42 402	72 279	73 014
Lead, mine	tonnes (metal content)	41 293	37 295	39 184	42 826	43 810
Nickel, mined	tonnes (metal content)	* 1 800	* 3 600	* 1 700	—	—
Nickel, smelter/refinery	tonnes	14 400	17 300	19 200	20 000	18 100
Silver	kilograms (metal content)	* 32 000	* 30 000	* 31 000	* 32 000	* 33 000
Talc	tonnes	1 292	547	286	—	—
Zinc, mine	tonnes (metal content)	32 872	28 132	28 037	30 907	31 570

#### Notes

(a) Including anhydrite

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	...	39 217	47 352	59 365	64 549
Aluminium and bauxite						
Scrap	tonnes	2 351	2 432	2 724	2 833	2 479
Bentonite	tonnes	3 310	3 730	3 635	3 237	2 544
Cement						
Cement clinkers	tonnes	...	0	154 117	20 118	...
Portland cement	tonnes	315 074	277 326	136 803	164 396	127 436
Other cement	tonnes	1 027	...	...	...	6 347
Copper						
Ores and concentrates	tonnes	41 135	39 014	45 119	51 838	42 034
Unwrought	tonnes	8	8	1 090	1 919	1 459
Scrap	tonnes	576	2 845	2 221	2 144	2 151
Feldspar	tonnes	21 924	25 111	14 857	15 477	17 675
Gypsum						
Crude and calcined	tonnes	30 273	32 328	29 321	27 891	29 710
Iron, steel and ferro-alloys						
Ferro-manganese	tonnes	50	4	209	21	57
Ferro-silico-manganese	tonnes	31 344	46 254	22 482	441	4
Ferro-nickel	tonnes	67 384	77 107	89 302	94 714	83 915
Ferro-silicon	tonnes	19 491	52 684	41 131	71 956	78 486
Scrap	tonnes	71 830	83 784	88 861	75 972	61 124
Lead						
Ores and concentrates	tonnes	55 482	48 959	49 055	54 266	54 989
Unwrought	tonnes	801	421	685	2 136	107
Nickel						
Ores and concentrates	tonnes	60 181	25 579	16 219	3 575	4
Phosphate rock	tonnes	1 056	651	709	529	553
Salt	tonnes	2 666	5 456	4 898	3 195	3 318
Sulphur and pyrites						
Sulphur	tonnes	1 653	877	197	170	...
Talc	tonnes	636	648	380	618	368
Zinc						
Ores and concentrates	tonnes	60 369	51 545	51 154	56 810	57 218
Scrap	tonnes	739	313	103	144	230

**Imports**

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 029	1 180	3 403	1 085	3 938
Aluminium and bauxite						
Unwrought (a)	tonnes	2 839	2 642	2 785	2 856	3 034
Scrap	tonnes	1 554	1 842	1 073	834	723
Bentonite	tonnes	219	302	725	400	380
Cement						
Cement clinkers	tonnes	1 191	8 932	(b)* 20	...	(b) —
Portland cement	tonnes	185 378	148 954	193 978	178 196	207 763
Other cement	tonnes	1 213	409	501	545	692
Chromium						
Ores and concentrates	tonnes	294	512	324	268	885
Coal						
Hard coal (c)	tonnes	160 162	189 549	233 556	163 242	160 070
Lignite	tonnes	23 409	42 052	27 024	51 273	27 958
Briquettes	tonnes	7 623	22 546	18 209	90 103	54 187
Fluorspar	tonnes	350	600	244	122	223
Graphite	tonnes	875	911	648	764	678
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 823	1 382	1 075	967	1 079
Ferro-alloys	tonnes	2 401	5 970	3 251	2 436	3 410
Ingots, blooms, billets	tonnes	145 509	97 889	100 791	90 116	116 862
Scrap	tonnes	292 049	318 612	157 401	55 654	153 264
Kaolin	tonnes	4 985	3 815	1 440	1 497	3 046
Lead						
Unwrought	tonnes	395	479	268	2 313	1 936
Magnesite and magnesia	tonnes	11 266	9 418	5 547	2 115	5 533
Manganese						
Ores and concentrates	tonnes	56 893	110 589	42 109	503	70
Nickel						
Ores and concentrates	tonnes	1 210 300	1 393 490	1 518 156	1 259 734	1 391 103
Crude petroleum	tonnes	852 361	685 090	258 896	51 521	—
Natural gas	tonnes	79 059	93 816	96 877	93 567	103 041
Platinum metals						
Platinum and platinum metals	kilograms	2 420	7 649	9 910	13 443	21 219
Salt	tonnes	42 011	39 986	49 248	43 611	34 013
Silver						
Metal	kilograms	3 294	3 779	2 032	2 781	2 059
Titanium						
Oxides	tonnes	504	502	455	546	528
Zinc						
Unwrought (a)	tonnes	5 213	4 920	4 611	4 075	4 664

## Note(s)

(a) Including alloys

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

(c) Including anthracite

## Malta

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Crushed rock	tonnes	(a) 1 753 096	(a) 1 739 037	(a) 1 707 653	1 828 716	1 763 865

#### Notes

(a) Includes gravel

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Aluminium and bauxite						
Scrap	tonnes	1 865	1 788	2 058	1 811	1 979
Copper						
Scrap	tonnes	919	1 096	1 287	736	606
Gold						
Waste and scrap	kilograms	17 008	27 387	...	...	...
Iron, steel and ferro-alloys						
Scrap	tonnes	29 498	38 408	34 244	28 134	48 856
Silver						
Metal	kilograms	100	500	500	100	200
Tin						
Scrap	tonnes	* 3	4	134	7	...

### Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	37 324	28 813	38 373	51 082	95 964
Barytes	tonnes	10	14	6	11	4 813
Bentonite	tonnes	921	844	446	440	457
Cement						
Portland cement	tonnes	285 182	258 304	260 664	223 401	258 469
Other cement	tonnes	13 002	6 676	2 906	2 122	2 994
Gold						
Metal	kilograms	8 200	3 400	3 100	7 100	7 400
Gypsum						
Crude and calcined	tonnes	10 446	11 428	12 507	6 191	7 526
Salt	tonnes	1 682	1 366	2 567	1 464	2 009
Silver						
Metal	kilograms	128	100	100	800	700
Titanium						
Oxides	tonnes	463	445	346	382	361

## Montenegro

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	255 678	133 947	201 896	213 002	289 469
Crushed rock	tonnes	265 066	167 405	112 630	143 179	137 299
Bauxite	tonnes	61 205	158 614	—	61 154	155 153
Primary aluminium	tonnes	82 043	92 838	74 813	47 951	42 767
Coal						
Lignite	tonnes	1 937 847	1 972 671	1 706 302	1 692 535	1 655 045
Crude steel	tonnes	48 272	61 164	28 161	19 723	* 15 000
Lead, mine	tonnes (metal content)	...	...	1 958	2 453	2 755
Salt						
Sea salt	tonnes	11 200	10 000	16 000	10 000	* 10 000
Zinc, mine	tonnes (metal content)	* 250	* 3 300	4 677	5 487	5 505

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	112 522	32 451	15 527	45 091	50 500
Aluminium and bauxite						
Bauxite	tonnes	85 623	127 268	26 354	100 291	68 378
Unwrought	tonnes	(a) 76 891	108 813	75 180	(a) 48 052	(a) 42 171
Scrap	tonnes	2 045	2 357	2 356	2 337	2 071
Cement						
Portland cement	tonnes	...	2 372	1 583	3 250	246
Coal						
Lignite	tonnes	69 130	48 940	47 778	22 877	27 857
Copper						
Scrap	tonnes	1 769	2 356	1 650	1 705	1 587
Iron, steel and ferro-alloys						
Ingots, blooms, billets	tonnes	18 775	6 866	9 199	3 540	716
Scrap	tonnes	28 570	55 204	43 998	56 423	51 429
Salt	tonnes	14 316	1 560	1 845	2 158	692
Silver						
Metal	kilograms	...	—	14	372	42 403
Zinc						
Ores and concentrates	tonnes	499	6 579	9 120	9 283	14 340

Note(s)

(a) Including alloys

### Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	26 703	12 574	4 709	1 933	9 860
Aluminium and bauxite						
Alumina	tonnes	157 753	185 103	139 940	93 297	83 512
Cement						
Portland cement	tonnes	266 063	250 759	248 013	267 715	288 075
Other cement	tonnes	116 132	90 911	92 927	96 956	81 088
Diamond						
Dust	carats	45 000	...	...	...	10 000

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Iron, steel and ferro-alloys						
Ferro-chrome	tonnes	242	395	249	147	186
Ferro-silico-manganese	tonnes	1 663	891	306	168	146
Ferro-silicon	tonnes	288	187	402	241	199
Other ferro-alloys	tonnes	55	171	38	80	55
Scrap	tonnes	19 950	27 396	11 306	16 280	2 877
Salt	tonnes	6 470	9 600	6 795	6 137	10 034

## Netherlands

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	55 439 000	60 795 000	49 900 000	48 974 000	* 48 500 000
Primary aluminium	tonnes	217 000	* 200 000	86 300	81 000	800
Cadmium	tonnes	* 560	* 570	* 560	* 610	* 620
Cement						
Cement, finished	tonnes	2 138 000	2 318 000	2 056 000	2 120 000	1 984 000
Indium	tonnes	* 5	* 5	* 5	* 5	* 5
Pig iron	tonnes	5 799 000	5 943 000	5 909 000	5 700 000	5 868 000
Crude steel	tonnes	6 651 000	6 937 000	6 879 000	6 713 000	6 964 000
Lead, refined	tonnes	27 000	27 000	27 000	27 000	31 000
Magnesite (a)	tonnes	236 053	274 877	290 873	249 568	285 907
Crude petroleum	tonnes	1 414 000	1 464 000	1 467 000	1 519 000	1 900 000
Natural gas	million m <sup>3</sup>	83 944	76 429	76 020	81 479	66 324
Salt	tonnes	5 982 000	6 866 000	6 513 000	6 517 000	6 500 000
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	121 000	120 900	117 600	120 900	* 120 000
Recovered (c)	tonnes (sulphur content)	465 000	470 000	450 000	430 000	* 410 000
Slab zinc	tonnes	264 000	261 000	257 000	275 000	290 000

#### Notes

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

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	9 311 275	15 472 833	15 140 085	14 071 676	13 479 227
Aluminium and bauxite						
Bauxite	tonnes	26 997	12 739	19 133	68 646	83 596
Alumina	tonnes	8 665	43 695	9 831	583 016	629 400
Alumina hydrate	tonnes	76 244	89 612	128 448	159 168	165 198
Unwrought	tonnes	424 733	390 062	371 106	381 464	626 547
Unwrought alloys	tonnes	320 263	246 826	203 792	223 326	264 739
Scrap	tonnes	317 038	322 834	372 917	320 523	349 012
Antimony						
Metal	tonnes	219	385	475	429	571
Oxide	tonnes	433	264	206	155	250
Arsenic						
Metallic arsenic	tonnes	11	62	55	22	62
Barytes						
Barium minerals	tonnes	79 880	71 719	92 823	95 795	108 073
Bentonite	tonnes	178 093	186 574	141 709	137 010	121 350
Bismuth						
Metal	tonnes	34	32	52	107	194
Bromine	kilograms	1 477 700	1 154 400	84 300	95 800	1 340 200
Cadmium						
Metal	tonnes	606	617	839	896	1 020
Cement						
Cement clinkers	tonnes	34	3 911	33 160	2 022	398
Portland cement	tonnes	201 065	310 479	274 856	291 279	308 896
Other cement	tonnes	57 922	150 175	203 678	419 501	402 813
Chromium						
Ores and concentrates	tonnes	74 483	126 012	156 975	175 682	138 528
Metal	tonnes	3 569	2 197	3 112	5 870	6 384
Coal						
Anthracite	tonnes	41 054	303 741	153 370	91 575	41 940
Other coal	tonnes	7 580 839	10 529 025	12 817 303	11 303 627	8 942 983
Briquettes	tonnes	144 797	294 637	148 931	14 240	113 965

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Cobalt</b>						
Metal	tonnes	1 733	2 062	1 934	2 054	3 260
Oxides	tonnes	144	67	132	45	21
<b>Copper</b>						
Ores and concentrates	tonnes	0	0	6 540	56 629	91 185
Unwrought	tonnes	20 175	34 435	59 260	27 722	25 173
Unwrought alloys	tonnes	2 379	3 057	2 389	2 497	3 119
Scrap	tonnes	283 847	315 437	328 463	295 139	326 278
<b>Diamond</b>						
Unsorted	Carats	£371 000	£1 799 000	£823 000	£308 000	£3 338 000
Gem, cut	Carats	£3 132 000	£16 418 000	£8 002 000	£10 206 000	£7 105 000
Industrial	Carats	£2 179 000	£1 282 000	£1 508 000	£2 148 000	£269 000
Dust	Carats	£51 000	£57 000	£97 000	£794 000	£2 552 000
<b>Diatomite</b>						
	tonnes	359	633	807	864	604
<b>Feldspar</b>						
	tonnes	105	112	281	228	533
<b>Fluorspar</b>						
	tonnes	14 023	28 870	19 488	16 659	34 470
<b>Gold</b>						
Metal	kilograms	34 851	50 559	37 629	31 713	20 606
Waste and scrap	kilograms	57 680	112 629	123 769	58 592	44 029
<b>Graphite</b>						
	tonnes	2 967	10 651	11 201	8 019	9 535
<b>Gypsum</b>						
Crude	tonnes	15 773	42 080	36 388	39 777	32 497
Calcined	tonnes	1 656	2 714	3 005	2 818	3 216
<b>Iodine</b>						
	kilograms	124 797	152 295	122 569	502 562	704 006
<b>Iron ore</b>						
	tonnes	121 426	208 469	49 903	241 379	140 232
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	111 189	133 861	184 975	78 365	105 754
Sponge and powder	tonnes	359	625	745	26 189	37 091
Ferro-chrome	tonnes	170 489	242 310	232 408	168 967	227 443
Ferro-silico-chrome	tonnes	448	14 816	31 811	6 589	9 567
Ferro-manganese	tonnes	35 353	66 053	57 013	88 182	78 639
Ferro-silico-manganese	tonnes	66 085	62 737	99 228	124 570	127 457
Ferro-molybdenum	tonnes	6 462	6 544	8 031	8 399	5 929
Ferro-nickel	tonnes	6 264	7 514	10 306	23 130	40 420
Ferro-niobium	tonnes	1 175	2 070	1 280	1 941	1 909
Ferro-silicon	tonnes	219 244	238 469	226 217	112 552	143 357
Ferro-titanium and ferro-silico-titanium	tonnes	10 510	13 620	10 357	11 011	14 667
Ferro-tungsten and ferro-silico-tungsten	tonnes	727	1 155	990	1 663	1 436
Ferro-vanadium	tonnes	1 909	2 343	1 772	1 525	3 156
Other ferro-alloys	tonnes	50 903	16 535	15 559	7 145	10 167
Silicon metal	tonnes	69 896	65 055	86 097	47 748	51 298
Ingots, blooms, billets	tonnes	849 018	1 553 519	1 601 063	702 912	624 693
Scrap	tonnes	5 541 773	5 692 223	5 635 229	5 517 477	5 295 208
<b>Kaolin</b>						
	tonnes	33 923	24 652	25 254	26 668	29 800
<b>Lead</b>						
Ores and concentrates	tonnes	63 921	94 100	46 688	41 266	63 529
Unwrought	tonnes	12 971	16 989	14 432	17 260	48 573
Scrap	tonnes	35 168	30 486	21 665	38 896	42 570
<b>Lithium</b>						
Oxides	tonnes	116	365	303	492	314
Carbonate	tonnes	160	300	567	266	229
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	423	744	31	99	1 304
Magnesia	tonnes	139 516	402 976	370 287	273 416	266 591
<b>Manganese</b>						
Ores and concentrates	tonnes	21 806	29 097	27 154	30 072	29 303
Metal	tonnes	38 159	44 310	29 855	26 866	27 634
<b>Mercury</b>						
	kilograms	195 272	72 020	67 263	64 995	1 806
<b>Mica</b>						
	tonnes	1 687	2 396	1 986	1 897	2 246
<b>Molybdenum</b>						
Ores and concentrates	tonnes	17 126	19 765	24 083	29 792	30 292
Metal	tonnes	249	492	128	141	251
Oxides	tonnes	6 429	6 434	6 407	7 319	6 956

## Netherlands

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Nickel</b>						
Ores and concentrates	tonnes	40	(b)* 11	3 787	(b)* 1 145	309
Mattes, sinters etc (b)	tonnes	* 1 800	* 2 400	* 1 400	* 980	* 490
Unwrought (a)	tonnes	165	49 681	46 929	45 573	51 310
Oxides	tonnes	...	1 456	1 398	1 433	1 205
Scrap	tonnes	1 956	1 793	1 405	2 948	3 252
Crude petroleum	tonnes	340 357	81 621	396 475	8 886 727	9 007 981
Phosphate rock	tonnes	138 239	166 704	162 952	117 248	128 632
<b>Platinum metals</b>						
Platinum	kilograms	£14 634 000	£9 386 000	£10 282 000	£6 146 000	£7 996 000
Platinum metals	kilograms	£7 953 000	£7 261 000	£5 329 000	£6 817 000	£4 605 000
Waste and scrap	kilograms	1 877	220	5 714	1 445	97 519
<b>Potash</b>						
Sulphate	tonnes	7 854	45 711	27 002	27 259	202 718
Chloride	tonnes	174 453	227 456	395 684	327 663	280 860
Other potassic fertilisers	tonnes	15 619	45 766	31 642	33 173	30 626
<b>Rare earths</b>						
Metals	tonnes	86	70	163	2 688	142
Rare earth compounds	tonnes	177	327	341	256	223
Ferro-cerium and other pyrophoric alloys	tonnes	49	18	32	14	5
Salt	tonnes	3 456 740	2 631 255	2 456 168	4 304 382	4 290 537
Sillimanite minerals	tonnes	6 907	23 239	13 447	18 958	6 494
<b>Silver</b>						
Ores and concentrates	kilograms	1 458	6 944	123	—	—
Metal	kilograms	216 182	624 589	241 614	555 475	160 451
<b>Sulphur and pyrites</b>						
Pyrites	tonnes	56 610	101 114	84 734	13 367	45 579
Sulphur	tonnes	480 968	469 819	561 995	395 938	441 806
Talc	tonnes	173 042	147 492	150 456	145 912	166 925
<b>Tantalum and niobium</b>						
Tantalum	tonnes	22	42	19	12	(b)* 128
<b>Tin</b>						
Unwrought	tonnes	4 043	3 619	5 670	6 126	7 752
Unwrought alloys	tonnes	856	357	314	338	446
Scrap	tonnes	544	465	363	653	563
<b>Titanium</b>						
Titanium minerals	tonnes	101 840	69 170	57 796	3 396	2 503
Metal	tonnes	4 117	9 548	10 173	8 815	5 403
Oxides	tonnes	31 385	11 305	14 836	114 285	119 100
<b>Tungsten</b>						
Ores and concentrates	tonnes	104	0	0	63	197
Metal	tonnes	406	255	119	84	123
<b>Vanadium</b>						
Pentoxide	tonnes	122	186	328	492	314
<b>Zinc</b>						
Ores and concentrates	tonnes	12 182	132 344	90 253	91 030	79 600
Unwrought	tonnes	166 281	122 532	213 479	272 732	190 548
Unwrought alloys	tonnes	42 182	52 382	39 626	48 484	68 830
Scrap	tonnes	32 543	25 629	28 277	26 682	31 910
<b>Zirconium</b>						
Concentrates	tonnes	11 091	13 351	9 959	9 514	11 493
Metal	tonnes	110	108	147	75	32

## Note(s)

(a) Including alloys

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



## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	26 065 573	28 239 777	23 457 644	22 724 647	24 404 781
Aluminium and bauxite						
Bauxite	tonnes	113 499	113 653	108 492	35 459	126 019
Alumina	tonnes	692 413	955 665	626 715	792 007	804 607
Alumina hydrate	tonnes	167 596	246 013	243 186	287 325	269 165
Unwrought	tonnes	384 724	424 915	487 639	163 027	930 866
Unwrought alloys	tonnes	462 371	537 289	464 926	444 992	463 212
Scrap	tonnes	184 066	241 081	270 014	220 965	233 610
Antimony						
Metal	tonnes	314	208	586	697	628
Oxide	tonnes	57 454	26 729	18 315	16 031	1 708
Arsenic						
Metallic arsenic	tonnes	95	104	—	109	196
Barytes						
Barium minerals	tonnes	161 343	148 240	168 963	140 000	153 290
Bentonite	tonnes	237 683	289 615	277 221	216 441	264 000
Bismuth						
Metal	tonnes	259	192	427	694	981
Bromine	kilograms	123 400	61 900	262 000	32 000	387 100
Cadmium						
Metal	tonnes	102	1	15	36	35
Cement						
Cement clinkers	tonnes	636 694	424 274	558 153	634 548	352 521
Portland cement	tonnes	1 123 936	1 580 140	1 278 033	1 259 993	1 610 207
Other cement	tonnes	1 136 163	1 475 035	1 488 241	1 271 302	1 115 885
Chromium						
Ores and concentrates	tonnes	88 788	135 776	180 648	150 921	974
Metal	tonnes	6 642	5 773	4 789	5 260	6 704
Coal						
Anthracite	tonnes	44 958	225 184	257 485	160 206	111 094
Other coal	tonnes	18 783 491	18 008 920	21 017 984	22 978 921	21 218 149
Lignite	tonnes	21 933	15 824	22 991	16 285	22 108
Briquettes	tonnes	132 281	429 514	1 398 836	2 702 367	2 591 227
Cobalt						
Metal	tonnes	962	1 023	1 249	1 581	1 907
Oxides	tonnes	118	596	16	7	5 516
Copper						
Ores and concentrates	tonnes	40	99	2 529	66 783	29 507
Unwrought, unrefined	tonnes	7 194	5 502	9	68	9
Unwrought, refined	tonnes	26 982	41 659	25 369	21 677	18 982
Unwrought alloys	tonnes	2 101	2 111	1 930	2 982	2 951
Scrap	tonnes	144 426	204 327	214 211	166 106	147 516
Diamond						
Unsorted	Carats	£80 000	£192 000	£144 000	£885 000	£171 000
Gem, cut	Carats	£15 248 000	£35 316 000	£30 128 000	£33 465 000	£22 637 000
Industrial	Carats	£624 000	£1 393 000	£1 392 000	£2 340 000	£1 245 000
Dust	Carats	290 475	2 074 815	820 000	14 150 000	30 820 000
Diatomite	tonnes	4 641	6 034	6 232	6 445	43 518
Feldspar	tonnes	15 721	9 071	57 431	85 487	64 185
Fluorspar	tonnes	14 294	23 603	11 725	26 299	28 875
Gold						
Metal	kilograms	37 888	38 349	35 027	38 821	19 861
Waste and scrap	kilograms	110 465	188 490	117	52 603	308
Graphite	tonnes	16 692	14 266	13 498	11 342	13 371
Gypsum						
Crude	tonnes	203 179	307 971	280 623	349 844	415 489
Calcined	tonnes	368 523	611 145	570 600	504 609	192 705
Iodine	kilograms	16 031	1 352 421	811 065	1 174 000	947 209
Iron ore	tonnes	(a) 8 810 077	8 921 399	7 445 399	(a) 5 200 141	(a) 8 297 535

## Netherlands

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	98 575	213 530	190 874	188 277	284 279
Sponge and powder	tonnes	378 111	402 025	416 889	190 235	212 909
Ferro-chrome	tonnes	93 919	123 284	76 613	264 401	177 341
Ferro-silico-chrome	tonnes	2 838	525	353	6 227	1 427
Ferro-manganese	tonnes	86 504	89 805	84 529	141 367	123 405
Ferro-silico-manganese	tonnes	57 967	80 905	21 583	78 217	55 053
Ferro-molybdenum	tonnes	4 643	7 753	4 548	3 397	3 466
Ferro-nickel	tonnes	19 378	25 849	20 222	7 243	48 172
Ferro-niobium	tonnes	920	1 354	1 397	78	1 695
Ferro-silicon	tonnes	178 138	152 194	181 213	62 226	58 818
Ferro-titanium and ferro-silico-titanium	tonnes	11 922	13 484	14 189	9 816	8 819
Ferro-tungsten and ferro-silico-tungsten	tonnes	1 168	1 298	726	1 108	1 063
Ferro-vanadium	tonnes	2 014	1 890	1 710	1 102	1 238
Other ferro-alloys	tonnes	11 263	17 558	7 372	6 993	15 282
Silicon metal	tonnes	82 599	75 664	81 148	100 682	134 485
Ingots, blooms, billets	tonnes	536 157	1 335 875	1 040 244	404 473	742 121
Scrap	tonnes	1 988 278	2 188 452	2 408 332	2 290 454	2 359 263
Kaolin	tonnes	150 929	150 310	149 090	115 525	168 279
<b>Lead</b>						
Ores and concentrates	tonnes	1 558	8 083	29 375	7 383	47 770
Unwrought	tonnes	8 717	8 496	4 020	5 484	5 561
Scrap	tonnes	21 255	16 886	15 622	10 578	8 823
<b>Lithium</b>						
Oxides	tonnes	290	494	201	229	188
Carbonate	tonnes	431	527	462	524	542
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	459	3 115	195	645	2 001
Magnesia	tonnes	345 154	458 372	340 922	235 685	187 691
<b>Manganese</b>						
Ores and concentrates	tonnes	23 045	33 555	66 281	38 141	414 471
Metal	tonnes	50 866	35 618	40 131	30 706	25 735
Mercury	kilograms	30 636	213 259	154 983	124 697	2 122
<b>Mica</b>						
Unmanufactured	tonnes	191	419	418	540	158
Ground	tonnes	21 756	20 744	4 632	4 504	5 565
Waste	tonnes	748	462	24	0	...
<b>Molybdenum</b>						
Ores and concentrates	tonnes	35 335	40 562	39 782	30 242	22 784
Metal	tonnes	274	261	236	154	152
Oxides	tonnes	594	865	596	617	648
<b>Nickel</b>						
Ores and concentrates	tonnes	5 940	9 544	744	0	—
Unwrought	tonnes	...	50 510	32 005	41 856	45 272
Unwrought alloys	tonnes	638	3 548	982	1 126	1 386
Oxides (b)	tonnes	* 50	* 70	* 150	* 253	* 96
Scrap	tonnes	10 852	4 607	2 584	2 803	4 208
Crude petroleum	tonnes	60 408 191	55 108 848	63 505 928	63 201 586	62 072 337
Natural gas (b)	tonnes	* 11 044 000	* 12 153 000	* 10 107 568	* 2 884 000	* 3 026 000
Phosphate rock	tonnes	779 354	779 537	679 557	287 737	301 386
<b>Platinum metals</b>						
Platinum	kilograms	£25 740 000	£73 911 000	£79 002 000	£15 407 000	£10 591 546
Platinum metals	kilograms	£13 014 000	£54 486 000	£31 440 000	£10 916 000	£9 319 288
Waste and scrap	kilograms	260 515	411 332	5 883	116 333	6 003
<b>Potash</b>						
Sulphate	tonnes	21 982	56 536	66 497	118 050	246 261
Chloride	tonnes	430 138	756 966	905 233	851 210	978 368
Other potassic fertilisers	tonnes	1 542	26 231	24 569	80 844	103 051
<b>Rare earths</b>						
Metals	tonnes	48	18	99	75	94
Cerium compounds	tonnes	88	223	396	268	201
Other rare earth compounds	tonnes	568	173	742	878	1 094
Ferro-cerium and other pyrophoric alloys	tonnes	2	1	23	14	...
Salt	tonnes	1 404 032	2 397 781	331 643	1 090 957	324 274
<b>Sillimanite minerals</b>						
Sillimanite minerals	tonnes	3 576	13 342	13 177	24 417	20 577
Mullite	tonnes	51 745	64 162	34 244	32 464	49 343

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Silver						
Metal	kilograms	304 219	338 239	301 089	321 318	179 287
Sulphur and pyrites						
Pyrites	tonnes	48	1 593	329	1 481	3 288
Sulphur	tonnes	49 399	229 496	80 459	117 195	96 545
Sulphur, sublimed and precipitated	tonnes	4	7	3 736	1	22
Talc	tonnes	178 312	199 302	182 898	213 095	249 040
Tantalum and niobium						
Tantalum	tonnes	27	33	54	10	62
Tin						
Unwrought	tonnes	13 967	11 303	7 453	11 803	11 282
Unwrought alloys	tonnes	665	505	276	389	160
Scrap	tonnes	606	524	424	3 655	1 678
Titanium						
Titanium minerals	tonnes	238 199	196 960	158 679	83 675	114 468
Metal	tonnes	5 330	6 094	5 709	5 902	4 678
Oxides	tonnes	43 542	52 165	38 792	58 718	58 775
Tungsten						
Ores and concentrates (b)	tonnes	* 1 200	* 3 100	* 3 400	* 3 203	* 3 600
Metal	tonnes	206	209	211	471	226
Vanadium						
Metal	tonnes	21	6	...	66	333
Pentoxide	tonnes	204	888	558	1 240	3 465
Zinc						
Ores and concentrates	tonnes	391 050	355 644	445 698	474 857	640 235
Unwrought	tonnes	254 953	227 277	221 680	191 576	165 072
Unwrought alloys	tonnes	19 827	13 356	8 029	24 859	12 532
Scrap	tonnes	12 653	9 283	6 759	7 301	8 417
Zirconium						
Concentrates	tonnes	23 981	43 560	17 070	6 651	19 942
Metal	tonnes	188	297	211	152	206

## Note(s)

(a) Including burnt pyrites

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

## Norway

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	13 011 000	13 215 000	14 262 000	13 984 000	14 111 000
Crushed rock	tonnes	54 134 000	63 855 000	67 670 000	66 259 000	64 828 000
Primary aluminium	tonnes	1 090 000	1 201 000	1 110 900	1 154 900	1 250 000
Cadmium	tonnes	300	309	* 310	* 310	* 310
Cement						
Cement, clinker	tonnes	1 433 783	1 382 809	1 435 497	1 399 012	1 364 866
Cement, finished	tonnes	1 467 363	1 579 505	1 661 157	1 694 150	1 693 379
Coal						
Bituminous (a)	tonnes	1 685 000	1 640 000	1 325 000	2 135 000	1 701 000
Cobalt	tonnes	3 208	3 067	2 969	3 348	3 582
Copper, smelter	tonnes	36 200	36 000	37 891	37 461	35 813
Copper, refined	tonnes	36 200	36 000	37 891	37 461	35 813
Feldspar	tonnes	56 000	25 271	—	—	154
Graphite	tonnes	6 270	7 789	6 992	6 207	8 308
Gypsum (b)(c)	tonnes	36 395	88 953	85 296	77 009	79 740
Iron ore	tonnes	6 742 333	6 723 426	7 744 487	9 549 232	10 542 149
Pig iron	tonnes	108 000	101 000	100 000	100 000	110 000
Crude steel	tonnes	530 000	610 000	700 000	605 000	595 000
Ferro-alloys						
Ferro-manganese	tonnes	297 300	337 900	325 900	320 000	* 285 000
Ferro-silico-manganese	tonnes	(c) 281 266	266 000	271 400	* 250 000	* 250 000
Ferro-silicon	tonnes	* 225 000	170 102	203 886	337 281	192 389
Silicon metal	tonnes	* 170 000	* 170 000	* 150 000	* 150 000	* 150 000
Molybdenum	tonnes (metal content)	...	...	4	8	2
Nepheline Syenite	tonnes	327 000	330 000	320 000	320 000	331 000
Nickel, mined	tonnes (metal content)	348	339	351	296	290
Nickel, smelter/refinery	tonnes	92 185	92 427	91 687	91 017	90 526
Crude petroleum	tonnes	105 146 000	100 343 000	94 497 000	90 387 000	93 294 000
Natural gas	million m3	107 800	101 697	114 918	108 746	108 820
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	36 900	37 531	41 464	38 745	40 119
Recovered (e)	tonnes (sulphur content)	22 000	19 000	20 000	22 000	* 22 000
Talc	tonnes	6 392	8 191	7 983	8 459	* 8 000
Titanium						
Ilmenite	tonnes	864 000	870 000	830 614	826 126	863 660
Slab zinc	tonnes	148 862	153 200	152 647	143 444	165 600

#### Notes

- (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	2010	2011	2012	2013	2014
Primary aggregates	tonnes	16 877 617	20 858 955	19 761 572	18 103 600	18 944 242
Aluminium and bauxite						
Alumina	tonnes	156	187	228	2 715	54
Unwrought	tonnes	74 941	58 478	66 997	57 855	51 221
Unwrought alloys	tonnes	1 420 662	1 370 411	1 287 135	1 196 035	1 275 484
Scrap	tonnes	77 216	88 312	76 950	61 112	69 737
Barytes						
Barium minerals	tonnes	12 071	8 008	9 954	13 246	10 729
Bentonite	tonnes	3 726	318	1 318	494	623
Bismuth						
Metal	tonnes	25	—	—	—	—

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Cadmium						
Metal	tonnes	329	317	221	267	227
Cement						
Cement clinkers (a)	tonnes	* 150 000	* 251 000	* 104 000	* 40 000	* 2 500
Portland cement (a)	tonnes	* 144 000	* 94 000	* 138 000	* 148 000	* 179 000
Chromium						
Metal	tonnes	97	78	202	61	35
Cobalt						
Metal	tonnes	3 325	3 064	3 059	2 876	3 669
Copper						
Matte and cement	tonnes	0	2	3 852	2 387	2 728
Unwrought	tonnes	35 975	36 549	38 146	37 287	37 397
Scrap	tonnes	37 829	45 889	55 842	57 357	53 906
Feldspar	tonnes	55 637	30 617	4 821	9 146	5 698
Gold						
Metal	kilograms	4 567	7 439	8 498	4 912	3 828
Waste and scrap	kilograms	1 482	1 904	4 261	1 027	427
Gypsum						
Crude and calcined	tonnes	36 298	85 598	90 159	77 012	79 729
Iodine	kilograms	—	13 250	1 127	—	—
Iron ore	tonnes	1 803 242	2 435 415	3 659 210	3 567 408	4 016 143
Iron, steel and ferro-alloys						
Pig iron (a)	tonnes	* 118 000	* 110 000	* 91 000	* 118 000	* 126 000
Sponge and powder	tonnes	678	169	1 269	3 722	3 986
Ferro-chrome (a)	tonnes	* 30	* 65	* 90	* 89	* 62
Ferro-manganese (a)	tonnes	* 332 000	* 379 000	* 370 000	* 825 000	* 332 000
Ferro-silico-manganese	tonnes	245 095	246 808	277 070	279 907	302 037
Ferro-silicon	tonnes	214 643	246 711	244 224	246 718	268 911
Other ferro-alloys	tonnes	2 479	47	9	20	74
Silicon metal	tonnes	162 649	154 191	161 468	174 217	191 221
Ingots, blooms, billets	tonnes	64 474	92 475	163 423	87 907	54 323
Scrap	tonnes	337 675	289 943	345 558	365 332	422 776
Kaolin	tonnes	103	85	492	20	72
Lead						
Scrap	tonnes	1 800	1 444	1 944	1 290	1 689
Manganese						
Ores and concentrates	tonnes	10 709	2 600	39 355	8 211	2 100
Metal	tonnes	112	462	95	0	—
Mica	tonnes	2 078	2 144	2 093	2 447	2 289
Nickel						
Ores and concentrates	tonnes	4 818	7 598	7 969	5 433	5 397
Unwrought	tonnes	91 813	92 705	91 591	89 413	86 210
Scrap	tonnes	1 042	582	499	674	404
Crude petroleum	tonnes	79 030 886	70 031 846	64 341 641	59 375 084	62 177 588
Natural gas	tonnes	75 626 277	74 356 856	84 557 156	81 107 905	82 413 956
Phosphate rock	tonnes	2	5	6 866	17 506	29 217
Platinum metals						
Platinum and platinum metals	kilograms	9 714	11 951	13 707	10 088	9 262
Waste and scrap	kilograms	157 937	36 399	63 560	19 969	3 814
Rare earths						
Metals	tonnes	—	19	5	54	—
Rare earth compounds	tonnes	30	23	13	35	15
Salt	tonnes	12 609	5 775	17 053	9 211	14 597
Silver						
Metal	kilograms	57 617	62 849	49 856	48 129	52 256
Talc	tonnes	728	2 204	535	648	71
Titanium						
Titanium minerals (a)	tonnes	* 465 000	* 441 000	* 392 000	* 396 000	* 420 000
Metal	tonnes	231	343	243	271	468
Oxides (a)	tonnes	* 35 000	* 35 000	* 31 000	* 35 000	* 38 000
Zinc						
Unwrought	tonnes	122 649	119 770	115 789	109 485	125 164
Unwrought alloys	tonnes	19 889	29 094	28 188	30 614	33 315

Note(s)

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	82 706	98 721	107 087	83 631	53 541
Aluminium and bauxite						
Bauxite	tonnes	8 645	459	746	485	475
Alumina	tonnes	2 144 519	2 185 976	2 191 352	2 302 823	2 260 295
Alumina hydrate	tonnes	35 379	53 224	50 386	47 789	52 105
Unwrought	tonnes	512 340	450 432	298 464	286 320	334 875
Unwrought alloys	tonnes	68 086	27 867	41 031	21 577	13 455
Scrap	tonnes	38 039	42 078	31 750	32 529	32 927
Antimony						
Oxide	tonnes	264	193	211	162	176
Barytes						
Barium minerals	tonnes	149 510	139 620	124 210	159 682	154 378
Bentonite	tonnes	14 506	12 668	11 620	16 045	24 565
Cement						
Cement clinkers	tonnes	7 070	170	312	376	101
Portland cement	tonnes	353 102	409 018	435 344	464 686	491 789
Other cement	tonnes	21 621	25 809	28 533	31 974	28 655
Chromium						
Ores and concentrates (a)	tonnes	* 400	* 500	* 300	* 200	* 200
Metal	tonnes	90	437	453	543	92
Coal						
Anthracite (b)	tonnes	78 387	79 140	78 412	68 231	79 859
Other coal (a)(b)	tonnes	* 517 000	* 343 000	* 468 000	* 465 000	* 476 000
Cobalt						
Metal	tonnes	2 132	684	5 090	2 678	4
Copper						
Unwrought	tonnes	4 609	909	704	1 460	1 107
Scrap	tonnes	9 891	12 856	12 073	11 674	10 891
Diamond						
Gem, cut	Carats	8 545	5 284	* 4 400	* 6 800	* 6 500
Industrial	Carats	160 000	140 000	285 000	130 000	340 000
Dust	Carats	...	...	115 000	55 000	10 000
Diatomite	tonnes	842	808	867	937	1 130
Feldspar	tonnes	16 413	18 228	14 322	15 794	17 151
Gold						
Metal	kilograms	969	1 220	1 338	1 007	1 018
Waste and scrap	kilograms	4 127	5 415	4 915	3 928	4 000
Graphite	tonnes	400	129	124	45	28
Gypsum						
Crude	tonnes	84 359	94 824	79 789	78 521	88 089
Calcined	tonnes	270 721	275 909	299 898	264 601	277 549
Iodine	kilograms	1 708 338	1 663 657	1 759 025	2 035 784	2 057 520
Iron ore	tonnes	148 809	127 127	92 702	74 266	49 445
Iron, steel and ferro-alloys						
Pig iron	tonnes	1 498	10 709	9 749	7 650	3 445
Sponge and powder	tonnes	575	39 665	36 216	28 156	7 197
Ferro-chrome	tonnes	1 311	1 534	1 293	1 170	1 094
Ferro-manganese	tonnes	5 303	5 254	1 200	124	237
Ferro-silico-manganese	tonnes	548	0	2	197	—
Ferro-molybdenum	tonnes	121	172	133	142	130
Ferro-silicon	tonnes	10 615	9 595	5 383	3 478	5 128
Other ferro-alloys	tonnes	1 544	2 090	1 022	1 845	1 902
Silicon metal	tonnes	49 349	53 897	28 196	19 763	27 475
Ingots, blooms, billets	tonnes	4 733	5 411	5 977	8 395	7 601
Scrap	tonnes	108 802	138 814	210 426	194 345	155 549
Kaolin	tonnes	225 576	149 002	176 164	168 419	148 595
Lead						
Unwrought	tonnes	6 449	7 713	8 071	9 630	8 902
Magnesite and magnesia						
Magnesia	tonnes	10 987	8 714	9 795	8 060	6 830
Manganese						
Ores and concentrates	tonnes	1 121 716	1 085 383	1 072 991	992 832	1 092 278
Metal	tonnes	1 974	2 697	1 636	2 158	1 851

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Mica						
Unmanufactured	tonnes	1 224	1 573	1 964	2 027	500
Ground	tonnes	1 179	294	285	193	797
Waste	tonnes	...	...	82	355	896
Nickel						
Mattes, sinters etc	tonnes	170 365	199 173	190 275	178 840	162 202
Unwrought (c)	tonnes	235	246	250	175	131
Crude petroleum	tonnes	1 508 241	1 238 531	1 305 413	1 815 872	1 220 705
Natural gas	tonnes	4 393	1 005	444	36	23
Phosphate rock	tonnes	9 638	6 499	—	—	—
Platinum metals						
Platinum and platinum metals	kilograms	1 425	1 430	758	955	813
Waste and scrap	kilograms	1 362	1 160	1 403	1 225	1 290
Potash						
Sulphate (a)	tonnes	* 99 000	* 65 000	* 27 782	* 49 000	* 455 000
Chloride (a)	tonnes	* 377 000	* 354 000	* 395 133	* 371 000	* 389 000
Other potassic fertilisers	tonnes	612	287	320	235	2 348
Rare earths						
Metals	tonnes	148	552	438	439	361
Cerium compounds	tonnes	1	13	3	—	3
Other rare earth compounds	tonnes	8	9	9	17	11
Salt	tonnes	1 042 489	1 106 066	1 052 197	1 029 977	954 563
Sillimanite minerals	tonnes	3 456	3 208	3 626	2 767	2 520
Silver						
Ores and concentrates	kilograms	(a)* 1 100	(a)* 700	(a)* 4 700	...	...
Metal	kilograms	57 422	49 727	47 768	27 060	36 991
Sulphur and pyrites						
Sulphur	tonnes	2 897	3 051	2 725	2 614	2 838
Sulphur, sublimed and precipitated	tonnes	11 515	11 627	12 685	12 848	11 188
Talc	tonnes	8 356	8 364	8 374	10 586	11 702
Titanium						
Titanium minerals	tonnes	45 018	25 003	...	26 238	26 780
Metal	tonnes	412	723	890	671	762
Oxides	tonnes	10 115	10 376	8 093	7 214	7 115
Zinc						
Ores and concentrates	tonnes	228 828	250 537	260 442	237 170	261 048
Unwrought (c)	tonnes	1 376	1 013	2 313	205	279

## 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	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel (a)	tonnes	* 157 236 000	* 176 000 000	* 145 000 000	* 141 000 000	* 136 000 000
Crushed rock	tonnes	62 886 200	88 696 900	64 859 600	57 945 100	61 117 900
Bentonite	tonnes	2 000	910	780	1 050	650
Cadmium	tonnes	451	526	370	460	628
Cement						
Cement, clinker	tonnes	11 767 782	13 629 500	11 807 300	10 855 278	11 865 500
Cement, finished	tonnes	15 756 000	18 929 000	15 918 614	14 831 323	15 814 500
Coal						
Bituminous	tonnes	76 727 802	76 447 604	79 854 904	68 399 000	65 969 000
Lignite	tonnes	56 510 125	62 841 269	64 297 772	66 139 000	64 002 000
Copper, mine	tonnes (metal content)	425 725	426 665	427 064	428 879	421 700
Copper, smelter	tonnes	469 656	481 875	466 715	458 789	503 111
Copper, refined	tonnes	547 074	571 041	565 834	565 155	576 876
Diatomite	tonnes	1 000	580	600	600	590
Feldspar	tonnes	513 700	538 800	487 200	483 000	* 485 000
Gold	kilograms	500	400	469	431	226
Gypsum (b)	tonnes	1 241 200	1 418 300	1 395 400	1 270 100	1 231 900
Pig iron	tonnes	3 637 994	3 974 930	3 943 968	4 013 877	4 637 478
Crude steel	tonnes	7 993 025	8 776 458	8 542 514	8 199 353	8 799 731
Ferro-alloys						
Ferro-manganese	tonnes	800	800	800	820	* 820
Ferro-silico-manganese	tonnes	100	400	200	100	* 100
Ferro-silicon	tonnes	53 206	72 668	78 115	73 589	62 878
Other ferro-alloys	tonnes	200	300	300	11 250	* 11 300
Kaolin (c)	tonnes	125 000	163 600	137 800	166 000	* 165 000
Lead, mine	tonnes (metal content)	48 050	67 003	64 342	79 480	83 150
Lead, refined	tonnes	120 300	121 500	141 000	145 400	149 000
Magnesite	tonnes	63 000	75 350	83 860	97 000	92 000
Nickel, mined	tonnes (metal content)	570	850	840	570	780
Nickel, smelter/refinery	tonnes	600	900	800	600	800
Crude petroleum	tonnes	686 487	618 163	677 664	960 672	984 216
Natural gas	million m <sup>3</sup>	5 666	5 825	5 783	5 790	5 660
Selenium	tonnes	79	85	90	80	90
Platinum metals						
Platinum	kilograms (metal content)	30	23	39	51	* 60
Palladium	kilograms (metal content)	20	13	23	30	* 30
Rhenium	tonnes	3	3	3	5	* 5
Salt						
Rock salt	tonnes	1 221 700	1 233 800	782 500	1 310 500	763 100
Brine salt	tonnes	2 464 400	2 633 300	2 732 200	2 735 500	2 705 100
Other salt	tonnes	763 515	768 000	724 000	686 352	641 769
Silver	kilograms (metal content)	1 183 000	1 167 000	1 149 000	1 161 114	1 384 000
Sulphur and pyrites						
Frasch	tonnes (sulphur content)	516 700	657 100	702 190	526 290	605 420
Recovered (d)	tonnes (sulphur content)	253 000	273 000	267 000	260 000	* 260 000
Recovered (e)	tonnes (sulphur content)	250 075	259 000	285 000	* 280 000	* 280 000
Tin	tonnes	602	82	1 375	1 900	2 253
Zinc, mine	tonnes (metal content)	107 700	87 200	76 700	75 900	56 000
Slab Zinc	tonnes	135 100	144 100	138 300	146 300	154 000

#### Notes

- (a) Includes an estimate for small producers
- (b) Including anhydrite
- (c) Washed
- (d) From metal sulphide processing
- (e) From petroleum refining and/or natural gas



## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 031 013	1 058 307	962 169	1 565 938	1 989 610
Aluminium and bauxite						
Bauxite	tonnes	448	8 546	—	2	1
Unwrought (a)	tonnes	103 803	111 421	118 356	153 672	218 895
Scrap	tonnes	123 503	130 472	155 032	151 679	182 781
Bentonite	tonnes	21 987	25 050	23 563	38 087	31 419
Bromine	kilograms	9 800	7 100	3 600	5 400	5 100
Cadmium						
Metal	tonnes	484	579	388	437	730
Cement						
Cement clinkers	tonnes	89 692	46 295	99 977	147 787	241 114
Portland cement	tonnes	415 187	358 847	303 667	419 673	524 213
Other cement	tonnes	22 984	17 523	28 200	20 620	19 150
Chromium						
Ores and concentrates	tonnes	425	3 604	536	373	923
Metal	tonnes	7 948	7 135	2 977	4 423	5 980
Coal						
Anthracite	tonnes	41 908	43 370	37 906	52 188	53 662
Other coal	tonnes	10 323 041	676 364	5 257 817	10 805 260	8 815 725
Lignite	tonnes	116 682	145 063	133 531	217 825	302 793
Briquettes	tonnes	2 114	15 992	1 676	1 637	2 880
Copper						
Ores and concentrates	tonnes	—	1	3	1	27 646
Matte and cement	tonnes	956	1 567	1 306	1 724	1 053
Unwrought	tonnes	332 989	327 585	333 648	343 628	308 042
Unwrought alloys	tonnes	1 180	1 260	2 571	2 279	2 270
Scrap	tonnes	68 686	60 544	49 128	57 215	64 023
Diatomite	tonnes	111	788	3 012	5 823	1 430
Feldspar	tonnes	3 050	3 012	1 376	1 222	898
Fluorspar	tonnes	22	10	—	31	336
Gold						
Metal	kilograms	1 100	3 000	12 300	7 100	4 200
Waste and scrap	kilograms	588	26	1 000	180	147
Graphite	tonnes	233	505	977	796	600
Gypsum						
Crude and calcined	tonnes	47 654	121 689	111 389	119 406	136 399
Iodine	kilograms	16 400	4 000	3 700	2 700	4 000
Iron ore	tonnes	16 130	4 400	1 573	29 699	97 832
Iron, steel and ferro-alloys						
Pig iron	tonnes	17 340	21 122	79 889	49 925	83 488
Sponge and powder	tonnes	5 293	16 519	7 185	7 040	6 990
Ferro-chrome	tonnes	668	309	505	648	1 396
Ferro-silico-chrome	tonnes	81	95	—	7 558	28 705
Ferro-manganese and ferro-silico-manganese	tonnes	10 113	3 284	5 844	44 294	58 249
Ferro-molybdenum	tonnes	991	3 379	2 605	3 550	205
Ferro-silicon	tonnes	59 845	76 121	72 741	83 700	68 970
Ferro-vanadium	tonnes	457	146	266	333	387
Other ferro-alloys	tonnes	5 255	4 206	1 548	2 998	1 726
Silicon metal	tonnes	845	1 390	1 674	2 161	1 425
Ingots, blooms, billets	tonnes	490 919	846 908	618 682	360 816	715 244
Scrap	tonnes	1 334 069	1 838 699	1 955 438	1 946 832	2 041 162
Kaolin	tonnes	9 781	13 591	12 366	10 173	11 749
Lead						
Ores and concentrates	tonnes	35 459	30 132	60 549	56 766	75 580
Unwrought	tonnes	43 945	59 599	62 941	62 616	88 648
Scrap	tonnes	1 668	1 010	1 392	1 282	1 304
Magnesite and magnesia						
Magnesia	tonnes	1 013	550	3 303	5 873	6 066
Manganese						
Metal	tonnes	2 875	41	97	198	313
Mercury	kilograms	106 100	7 300	—	—	—
Nickel						
Mattes, sinters etc	tonnes	1 134	—	—	28	2
Unwrought	tonnes	(a) 1 876	(a) 252	(a) 917	2 617	(a) 3 303
Scrap	tonnes	416	749	709	319	369

## Poland

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Crude petroleum	tonnes	3	186 730	211 223	402 670	420 124
Phosphate rock	tonnes	43	434	226	1 284	909
Platinum metals						
Platinum and platinum metals	kilograms	1 100	2 400	400	900	900
Waste and scrap	kilograms	300	3 400	63 900	425 200	538 900
Potash						
Potassic fertilisers	tonnes	10 687	10 078	3 999	15 678	27 845
Rare earths						
Cerium compounds	tonnes	7	86	1	9	20
Other rare earth compounds	tonnes	4	66	3	4	5
Salt	tonnes	572 595	515 723	393 235	625 660	307 444
Silver						
Metal	kilograms	1 281 800	1 328 900	1 378 800	1 245 000	1 436 700
Sulphur and pyrites						
Sulphur	tonnes	402 102	394 861	506 641	406 030	506 889
Sulphur, sublimed and precipitated	tonnes	34 752	26 542	29 757	500	42 324
Talc	tonnes	869	744	830	825	520
Tin						
Unwrought (a)	tonnes	408	536	533	558	686
Titanium						
Metal	tonnes	76	90	47	47	459
Oxides	tonnes	20 996	23 401	20 201	20 329	14 517
Tungsten						
Ores and concentrates	tonnes	...	314	...	41	—
Metal	tonnes	154	179	89	348	304
Zinc						
Ores and concentrates	tonnes	4 213	0	0	3	2
Unwrought	tonnes	96 142	105 552	105 929	128 521	181 437
Unwrought alloys	tonnes	6 280	6 939	6 541	9 137	13 607
Scrap	tonnes	902	960	533	570	1 570

Note(s)

(a) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	5 014 564	9 022 494	5 766 695	3 143 654	3 680 582
Aluminium and bauxite						
Bauxite	tonnes	48 664	45 672	51 430	46 961	44 237
Alumina	tonnes	29 920	34 691	35 709	34 969	40 087
Alumina hydrate	tonnes	31 406	26 536	25 912	28 557	27 653
Unwrought	tonnes	125 567	125 147	112 325	99 308	86 261
Unwrought alloys	tonnes	192 393	232 859	245 491	254 479	333 092
Scrap	tonnes	84 622	98 484	108 168	175 534	206 825
Antimony						
Ores and concentrates	tonnes	54	10	34	44	110
Metal	tonnes	47	68	62	115	93
Oxide	tonnes	1 044	1 026	949	841	922
Arsenic						
Metallic arsenic	tonnes	42	45	44	39	25
Barytes						
Barium minerals	tonnes	11 758	15 723	21 567	11 154	14 600
Bentonite	tonnes	155 173	212 585	233 200	212 103	201 653
Bismuth						
Metal	tonnes	34	23	24	33	31
Bromine	kilograms	17 200	11 200	66 300	35 300	4 100
Cement						
Cement clinkers	tonnes	100 352	19 900	7 873	11 334	26 189
Portland cement	tonnes	565 893	932 507	695 629	659 111	763 618
Other cement	tonnes	26 247	25 467	21 027	108 490	75 243

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Chromium						
Ores and concentrates	tonnes	15 672	30 863	27 723	30 554	26 625
Metal	tonnes	2 692	4 530	76	416	256
Coal						
Anthracite	tonnes	583 158	582 605	407 120	384 053	318 430
Other coal	tonnes	13 127 065	14 090 331	9 652 129	10 434 564	10 005 485
Lignite	tonnes	35 973	67 550	134 135	221 819	204 790
Briquettes	tonnes	60 548	60 758	53 873	57 782	94 283
Cobalt						
Metal	tonnes	52	47	52	48	73
Oxides	tonnes	18	114	17	20	25
Copper						
Ores and concentrates	tonnes	38 000	45 484	41 333	112 568	160 562
Unwrought, unrefined	tonnes	33 717	23 581	22 766	17 481	13 833
Unwrought, refined	tonnes	26 944	11 822	19 234	17 078	8 498
Unwrought alloys	tonnes	2 813	2 939	4 229	2 693	2 718
Scrap	tonnes	24 316	26 201	53 828	49 205	63 996
Diamond						
Unsorted	Carats	£208 000	£24 000	£289 000	£22 000	£286 000
Gem, cut	Carats	£2 128 000	£3 805 000	£2 532 000	£3 111 000	£4 680 000
Dust	Carats	£179 000	£273 000	£376 000	£388 000	£273 000
Diatomite	tonnes	6 753	9 365	7 802	6 980	6 068
Feldspar	tonnes	243 645	324 426	287 882	288 728	272 111
Fluorspar	tonnes	11 013	12 239	11 747	9 106	10 698
Gold						
Metal	kilograms	200	1 500	1 800	1 900	1 200
Graphite	tonnes	6 933	10 267	6 833	7 317	7 742
Gypsum						
Crude	tonnes	129 336	134 230	122 407	20 267	20 374
Calcined	tonnes	53 613	47 261	39 845	43 204	50 895
Iodine	kilograms	21 700	11 600	12 900	21 800	9 200
Iron ore	tonnes	6 494 457	5 977 338	6 576 287	6 640 058	7 438 720
Iron, steel and ferro-alloys						
Pig iron	tonnes	176 145	228 357	200 340	157 826	172 215
Sponge and powder	tonnes	7 594	14 597	7 336	8 430	7 149
Ferro-chrome	tonnes	7 785	8 042	9 413	19 247	27 396
Ferro-silico-magnesium	tonnes	3 402	2 326	1 752	1 352	1 696
Ferro-manganese	tonnes	30 721	45 192	31 083	64 426	45 459
Ferro-silico-manganese	tonnes	56 882	65 816	60 667	71 356	114 736
Ferro-molybdenum	tonnes	612	547	470	1 316	1 333
Ferro-nickel	tonnes	4	...	207	9	419
Ferro-niobium	tonnes	395	279	379	278	316
Ferro-phosphorus	tonnes	917	1 253	1 183	850	760
Ferro-silicon	tonnes	21 576	18 457	15 818	23 324	28 620
Ferro-titanium and ferro-silico-titanium	tonnes	194	259	291	291	276
Ferro-vanadium	tonnes	370	10	447	621	828
Other ferro-alloys	tonnes	4 351	5 856	6 451	4 766	6 093
Silicon metal	tonnes	16 219	17 091	17 754	22 669	24 818
Ingots, blooms, billets	tonnes	119 466	370 144	575 506	603 525	400 640
Scrap	tonnes	374 076	409 454	383 472	510 652	485 705
Kaolin	tonnes	117 914	143 476	138 026	146 430	135 599
Lead						
Unwrought	tonnes	46 810	52 011	42 108	44 237	51 216
Scrap	tonnes	7 154	6 673	4 980	10 330	11 539
Lithium						
Oxides	tonnes	86	114	141	100	137
Carbonate	tonnes	175	177	177	165	186
Magnesite and magnesia						
Magnesite	tonnes	3 966	1 375	1 948	659	590
Magnesia	tonnes	113 757	137 148	116 632	103 475	125 579
Manganese						
Ores and concentrates	tonnes	4 345	4 509	4 951	5 459	52 330
Metal	tonnes	1 514	436	764	1 030	1 378
Mercury	kilograms	4 300	39 900	13 700	31 300	50 900
Mica	tonnes	1 150	2 019	1 504	1 459	1 711

## Poland

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Molybdenum</b>						
Metal	tonnes	889	1 292	72	72	99
Oxides	tonnes	162	198	237	195	224
<b>Nickel</b>						
Mattes, sinters etc	tonnes	1 223	7	—	10	—
Unwrought (a)	tonnes	3 350	2 722	3 189	3 208	2 518
Oxides	tonnes	38	28	263	29	35
Scrap	tonnes	341	603	325	447	447
Crude petroleum	tonnes	22 009 801	22 870 416	24 629 744	23 141 408	23 577 998
Phosphate rock	tonnes	1 299 106	1 434 124	1 237 885	957 111	1 265 788
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	5 100	2 700	1 800	300	900
Waste and scrap	kilograms	19	1	100	33 000	143 200
<b>Potash</b>						
Sulphate	tonnes	19 155	23 281	23 883	28 911	38 846
Chloride	tonnes	757 987	769 256	779 023	784 534	860 095
Other potassic fertilisers	tonnes	4 442	10 317	11 544	17 079	25 937
<b>Rare earths</b>						
Metals	tonnes	5	0	2	27	2
Cerium compounds	tonnes	134	86	68	104	184
Other rare earth compounds	tonnes	48	32	13	13	14
Salt	tonnes	886 294	1 052 650	451 619	906 654	468 938
<b>Silicon</b>						
Ferro-silico-magnesium	tonnes	3 402	2 326	1 752	1 352	1 696
Ferro-silicon	tonnes	21 576	18 457	15 818	23 324	28 620
Ferro-silico-manganese	tonnes	56 882	65 816	60 667	71 356	114 736
<b>Sillimanite minerals</b>						
Sillimanite minerals	tonnes	17 956	13 791	17 567	20 761	23 924
Mullite	tonnes	2 109	2 817	2 757	2 299	2 476
<b>Silver</b>						
Metal	kilograms	106 700	78 600	82 800	76 900	76 500
<b>Sulphur and pyrites</b>						
Pyrites	tonnes	1 866	1 255	1 480	1 473	1 574
Sulphur	tonnes	44 939	53 828	30 488	8 508	2 904
Sulphur, sublimed and precipitated	tonnes	164	387	6	88	76
Talc	tonnes	23 331	26 212	26 430	34 117	29 854
<b>Tin</b>						
Unwrought (a)	tonnes	1 317	1 579	1 281	1 138	968
Scrap	tonnes	1 605	2 790	3 689	4 638	4 583
<b>Titanium</b>						
Titanium minerals	tonnes	105 384	99 055	84 143	96 894	92 439
Metal	tonnes	616	2 020	329	270	377
Oxides	tonnes	46 110	54 770	44 098	48 200	52 495
<b>Tungsten</b>						
Metal	tonnes	124	96	69	170	160
<b>Zinc</b>						
Ores and concentrates	tonnes	115 561	97 225	178 780	157 232	143 744
Unwrought	tonnes	53 983	49 569	47 314	48 736	41 524
Unwrought alloys	tonnes	7 610	10 045	11 622	11 593	9 799
Scrap	tonnes	7 188	10 421	11 060	14 251	15 464
<b>Zirconium</b>						
Concentrates	tonnes	648	488	670	735	759

Note(s)

(a) Including alloys

## Portugal

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	8 569 474	7 658 205	6 093 188	5 488 141	5 215 900
Crushed rock	tonnes	50 628 649	48 737 535	32 966 351	21 577 096	24 051 109
Arsenic	tonnes	* 15	* 15	* 15	* —	* —
Barytes	tonnes	15	—	—	—	—
Cement						
Cement, clinker	tonnes	6 483 644	5 351 024	4 881 543	5 427 443	5 967 865
Cement, finished (a)	tonnes	6 665 585	6 072 751	5 392 995	5 342 661	5 480 202
Copper, mine	tonnes (metal content)	74 426	79 686	74 043	77 236	75 433
Feldspar (b)	tonnes	169 722	187 159	167 287	138 715	136 440
Gypsum	tonnes	336 755	337 272	321 988	299 038	328 730
Crude steel	tonnes	1 543 000	1 942 000	1 960 000	2 050 000	* 2 000 000
Kaolin	tonnes	273 890	322 041	321 689	248 008	264 872
Lead, mine	tonnes (metal content)	—	—	87	1 496	3 192
Lead, refined	tonnes	9 000	6 000	5 000	4 000	5 000
Lithium						
Lepidolite	tonnes	40 109	37 534	20 698	19 940	17 459
Salt						
Rock salt	tonnes	618 961	631 295	520 284	473 095	69 702
Sea salt	tonnes	44 574	47 267	88 693	91 282	96 321
Silver	kilograms (metal content)	20 561	28 027	29 890	40 621	43 172
Sulphur and pyrites						
Recovered	tonnes (sulphur content)	23 000	20 500	20 600	* 21 000	* 21 000
Talc	tonnes	11 981	15 462	15 131	11 348	14 942
Tin	tonnes (metal content)	22	39	42	84	75
Tungsten (c)	tonnes (metal content)	799	818	763	692	671
Zinc, mine	tonnes (metal content)	6 422	4 227	30 006	53 382	67 378

#### Notes

(a) Sales

(b) Includes feldspathic sand

(c) Wolframite and scheelite

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	67 505	120 946	71 399	353 360	309 526
Aluminium and bauxite						
Unwrought alloys	tonnes	102 856	59 056	40 526	5 593	3 526
Scrap	tonnes	51 888	45 775	52 782	40 273	41 929
Antimony						
Metal	tonnes	138	70	277	138	51
Bentonite	tonnes	1 175	1 356	1 935	1 672	2 175
Cement						
Cement clinkers	tonnes	1 888 362	916 431	994 099	1 410 579	1 860 476
Portland cement	tonnes	996 778	1 345 607	2 000 541	2 668 095	3 132 133
Other cement	tonnes	10 440	8 111	40 461	57 065	38 377
Coal						
Anthracite	tonnes	7 136	7 405	11 385	9 679	5 189
Other coal	tonnes	326	17 903	179	357	885
Copper						
Ores and concentrates	tonnes	305 485	327 096	312 192	328 240	320 063
Unwrought	tonnes	1 887	9 969	8 425	248	334
Scrap	tonnes	24 491	36 151	41 285	36 744	35 130
Diamond						
Gem, cut	Carats	£550	£61 000	£136 000	£507 000	£93 000
Industrial	Carats	3 500 000	1 000 000	1 500 000	500 000	—
Dust	Carats	92 107	788 459	1 000 000	550 000	1 000 000
Diatomite	tonnes	7 545	7 299	11 538	18 246	23 028

## Portugal

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Feldspar	tonnes	2 190	3 197	17 482	29 205	24 563
Gold						
Metal	kilograms	6 600	13 100	17 000	10 600	6 700
Waste and scrap	kilograms	800	100	457 000	274 800	84 200
Gypsum						
Crude and calcined	tonnes	20 016	47 278	56 546	31 679	26 634
Iodine	kilograms	—	500	200	100	1 000
Iron, steel and ferro-alloys						
Pig iron	tonnes	18 502	21 606	18 330	17 431	37 707
Ferro-alloys	tonnes	1 746	2 392	793	443	352
Ingots, blooms, billets	tonnes	172 983	119 353	54 844	71 231	146 809
Scrap	tonnes	303 013	239 842	236 115	246 687	214 984
Kaolin	tonnes	31 390	102 721	122 029	103 161	147 026
Lead						
Ores and concentrates	tonnes	...	...	91	3 685	10 871
Unwrought	tonnes	8 785	8 050	5 124	3 952	5 340
Scrap	tonnes	1 710	1 855	1 363	3 639	1 866
Magnesite and magnesia						
Magnesite	tonnes	11	1	716	503	4 988
Magnesia	tonnes	4	1	528	712	708
Mercury	kilograms	200	6 700	25 600	—	—
Natural gas	tonnes	389 309	875	58 753	243 548	49 632
Platinum metals						
Waste and scrap	kilograms	...	15 100	3 200	1 600	300
Potash						
Potassic fertilisers	tonnes	612	895	3 901	10 878	4 350
Rare earths						
Other rare earth compounds	tonnes	9	2	—	0	—
Salt	tonnes	31 022	31 304	37 302	33 633	28 458
Silver						
Ores and concentrates	kilograms	12 300	16 300	15 100	25 200	14 100
Metal	kilograms	3 400	10 600	40 600	34 200	20 400
Sulphur and pyrites						
Sulphur	tonnes	6 164	9 737	7 065	24 478	32 210
Talc	tonnes	4 316	2 526	2 224	1 740	2 966
Tantalum and niobium						
Tantalum	tonnes	98	81	50	27	12
Tin						
Scrap	tonnes	43	82	200	117	182
Titanium						
Oxides	tonnes	1 091	3 422	5 322	6 733	6 934
Tungsten						
Ores and concentrates	tonnes	1 289	1 324	1 325	1 253	1 070
Metal	tonnes	6	131	51	10	70
Zinc						
Ores and concentrates	tonnes	7 438	2 201	67 881	112 125	150 223
Unwrought (a)	tonnes	151	734	1 723	492	320
Scrap	tonnes	940	755	5 736	1 745	2 072

Note(s)

(a) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	945 814	453 721	356 411	205 991	270 800
Aluminium and bauxite						
Alumina	tonnes	14 862	8 762	8 863	9 472	9 006
Unwrought	tonnes	20 152	18 744	17 371	13 634	13 076
Unwrought alloys	tonnes	170 057	113 150	96 190	74 013	92 153
Scrap	tonnes	10 183	5 305	7 409	4 460	6 896
Antimony						
Oxide	tonnes	240	184	239	229	239

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Barytes						
Barium minerals	tonnes	4 448	2 509	2 286	2 985	3 640
Bentonite	tonnes	18 205	23 436	26 466	21 319	29 840
Cement						
Cement clinkers	tonnes	34 216	5 037	3 930	1 044	224
Portland cement	tonnes	238 605	238 605	220 968	308 064	374 506
Other cement	tonnes	8 557	8 067	7 795	6 749	2 579
Chromium						
Ores and concentrates	tonnes	2 108	2 727	2 639	2 206	2 529
Coal						
Anthracite	tonnes	21 454	30 860	42 657	32 258	11 883
Other coal	tonnes	2 648 704	3 592 502	4 999 817	4 182 028	4 419 070
Copper						
Unwrought	tonnes	5 534	4 725	4 688	5 613	7 613
Scrap	tonnes	8 819	7 973	5 169	6 797	8 104
Unwrought alloys	tonnes	4 127	4 378	3 993	3 445	3 999
Diamond						
Gem, cut	Carats	£2 039 000	£3 732 000	£2 532 000	£2 414 000	£2 246 000
Industrial	Carats	£111 000	£122 000	£86 000	£65 000	£21 000
Dust	Carats	9 509 385	10 215 655	5 245 000	4 775 000	8 930 000
Diatomite	tonnes	2 284	2 340	2 242	2 702	2 840
Feldspar	tonnes	63 675	49 902	61 516	79 625	80 517
Fluorspar	tonnes	1 384	2 350	3 234	3 291	2 894
Gold						
Metal	kilograms	1 500	1 200	800	700	1 500
Waste and scrap	kilograms	...	49 685	18 835	19 509	55 945
Gypsum						
Crude	tonnes	73 822	40 153	28 175	44 712	34 852
Calcined	tonnes	270 783	237 788	167 437	133 151	123 507
Iodine	kilograms	8 700	8 600	6 300	10 800	19 100
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 623	4 980	1 895	3 230	3 645
Sponge and powder	tonnes	6 919	37 376	27 383	30 100	578
Ferro-chrome	tonnes	810	683	617	770	960
Ferro-silico-magnesium	tonnes	1 475	470	79	21	5
Ferro-manganese	tonnes	856	722	683	593	623
Ferro-silico-manganese	tonnes	4 396	9 877	15 041	13 097	9 481
Ferro-silicon	tonnes	2 902	3 408	3 130	2 240	3 803
Other ferro-alloys	tonnes	657	2 611	4 500	2 868	3 856
Silicon metal	tonnes	753	950	1 182	606	770
Ingots, blooms, billets	tonnes	28 583	33 675	33 266	31 844	35 388
Scrap	tonnes	672 856	616 063	1 165 785	1 409 187	1 526 817
Kaolin	tonnes	96 851	106 955	103 863	97 034	155 804
Lead						
Unwrought	tonnes	5 593	9 403	8 661	13 630	13 263
Scrap	tonnes	395	266	1 113	5 026	953
Magnesite and magnesia						
Magnesite	tonnes	1 162	1 379	1 249	1 652	801
Magnesia	tonnes	4 504	5 523	7 130	9 037	9 406
Manganese						
Ores and concentrates	tonnes	68	56	168	38	205
Mercury	kilograms	152 900	125 400	59	18	30
Mica	tonnes	284	288	258	263	219
Nickel						
Unwrought	tonnes	312	221	285	405	327
Crude petroleum	tonnes	11 251 958	10 152 747	11 456 025	11 600 330	11 149 051
Natural gas	tonnes	3 849 819	3 543 064	3 231 198	3 456 751	3 109 506
Phosphate rock	tonnes	93 348	91 703	105 186	73 503	105 798
Platinum metals						
Platinum and platinum metals	kilograms	796	245	* 800	* 900	205
Waste and scrap	kilograms	...	...	—	3 600	28 600
Potash						
Sulphate	tonnes	3 840	4 405	10 798	27 020	10 290
Chloride	tonnes	50 687	65 352	82 364	64 943	73 749
Other potassic fertilisers	tonnes	1 899	2 596	5 395	8 477	3 952

## Portugal

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Rare earths						
Metals	tonnes	1	87	—	1	1
Cerium compounds	tonnes	7	8	7	6	1
Other rare earth compounds	tonnes	5	18	3	3	3
Salt	tonnes	172 107	144 688	182 585	149 922	227 884
Sillimanite minerals	tonnes	466	641	2 241	794	962
Silver						
Metal	kilograms	66 900	38 700	22 200	37 300	31 700
Sulphur and pyrites						
Sulphur	tonnes	4 861	3 981	2 726	2 367	2 007
Talc	tonnes	24 143	22 388	11 746	14 043	17 819
Tantalum and niobium						
Tantalum	tonnes	41	44	33	23	6
Tin						
Unwrought	tonnes	317	560	435	510	503
Unwrought alloys	tonnes	100	19	13	23	52
Titanium						
Titanium minerals	tonnes	714	807	429	517	885
Metal	tonnes	26	28	38	32	95
Oxides	tonnes	20 486	19 813	14 788	23 016	24 277
Tungsten						
Metal	tonnes	277	206	151	147	70
Carbide	tonnes	110	106	79	93	76
Zinc						
Unwrought	tonnes	15 757	13 299	11 135	10 471	8 692
Unwrought alloys	tonnes	4 522	3 967	4 601	6 084	6 585
Zirconium						
Concentrates	tonnes	5 475	4 048	2 386	2 574	3 555



## Romania

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	22 085 231	25 319 433	21 068 344	50 829 386	51 812 555
Crushed rock	tonnes	3 774 309	6 189 078	5 593 429	36 888 195	32 061 735
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	414 000	484 000	414 000	391 000	363 000
Primary aluminium	tonnes	241 000	261 000	249 000	250 000	263 000
Bentonite	tonnes	21 637	19 864	19 241	24 127	18 583
Cement						
Cement, clinker	tonnes	5 201 629	5 751 215	5 873 601	5 061 670	5 466 540
Cement, finished (a)	tonnes	6 867 596	7 646 612	7 727 046	7 120 934	7 554 605
Coal						
Anthracite and Bituminous	tonnes	—	2 121 574	1 876 062	1 839 667	1 619 347
Lignite	tonnes	28 774 244	33 779 130	31 529 377	22 902 291	23 144 539
Brown coal	tonnes	62 448	46 071	17 700	—	—
Copper, mine	tonnes (metal content)	5 127	6 355	5 902	6 700	7 200
Feldspar	tonnes	6 049	3 814	4 112	7 060	7 570
Gold	kilograms	* 500	* 500	* 500	* 500	* 500
Graphite	tonnes	6 633	—	—	—	—
Gypsum	tonnes	639 010	834 009	765 251	736 099	815 586
Pig iron	tonnes	1 723 418	1 595 000	1 580 000	1 300 000	* 1 300 000
Crude steel	tonnes	3 720 775	3 828 000	3 292 000	2 985 000	3 158 000
Ferro-alloys						
Ferro-chrome	tonnes	14 353	—	—	—	—
Ferro-silico-manganese	tonnes	20 605	* 30 000	* 30 000	* 30 000	* 30 000
Kaolin	tonnes	326	—	—	32 722	30 638
Lead, mine	tonnes (metal content)	* 300	* —	* 5 300	* 400	* —
Lead, refined	tonnes	11 263	6 747	14 668	14 000	12 000
Manganese	tonnes	13 120	3 180	8 993	21 300	12 662
Crude petroleum	tonnes	4 172 411	4 081 979	3 992 011	3 994 122	3 922 784
Natural gas	million m <sup>3</sup>	11 138	11 164	11 095	11 135	11 345
Salt	tonnes	2 388 357	2 248 940	1 888 516	2 127 780	2 046 740
Silver	kilograms (metal content)	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Sulphur and pyrites						
Recovered	tonnes (sulphur content)	50 700	55 600	50 000	60 000	* 47 000
Talc	tonnes	296	131	13	—	—
Uranium, mine	tonnes (metal content)	* 77	* 77	* 90	* 80	* 77
Zinc, mine	tonnes (metal content)	* 7 700	* 8 800	* 8 400	* 2 000	* 3 300

#### Notes

(1) Romania is also believed to produce mica

(a) Sales

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	360 161	255 970	438 328	889 084	1 167 093
Aluminium and bauxite						
Bauxite	tonnes	1 513	2 318	5 274	—	329
Alumina	tonnes	25 559	38 406	29 070	30 444	56 015
Unwrought	tonnes	10 312	14 004	6 074	6 534	2 581
Unwrought alloys	tonnes	51 556	70 697	83 687	90 163	84 876
Scrap	tonnes	17 733	12 801	14 200	12 046	10 662
Barytes						
Barium minerals	tonnes	258	2 009	1 326	6 802	1 011
Cement						
Cement clinkers	tonnes	265	24 810	84 874	7 092	2 652
Portland cement	tonnes	20 039	278 795	333 946	156 625	184 798
Other cement	tonnes	214	16 310	16 668	10 984	13 691

## Romania

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Coal						
Hard coal	tonnes	(a) 73 002	35 712	19 701	(a) 5 599	(a) 4 835
Lignite	tonnes	—	1	338	—	37 085
Copper						
Ores and concentrates	tonnes	31 582	39 704	41 879	44 995	46 980
Unwrought	tonnes	797	308	1 603	380	277
Scrap	tonnes	49 248	54 536	51 844	44 056	39 434
Feldspar	tonnes	1	283	260	301	329
Gypsum						
Crude and calcined	tonnes	17 672	15 576	15 693	13 360	14 794
Iron ore						
Iron ore	tonnes	1 718	2 728	53 998	317 571	4 436
Burnt pyrites	tonnes	1 359	1 690	2 887	10 757	17 177
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	24 454	29 320	25 038	24 992	27 736
Ferro-chrome	tonnes	14 234	10 996	8 577	1 715	1 209
Ferro-manganese	tonnes	45	26	195	92	18
Ferro-silico-manganese	tonnes	19 087	34 387	4 171	14 170	7 477
Ferro-molybdenum	tonnes	179	73	1 655	703	1 590
Ferro-niobium	tonnes	53	66	136	217	56
Ferro-silicon	tonnes	24	0	—	45	167
Other ferro-alloys	tonnes	44	28	61	52	27
Ingots, blooms, billets	tonnes	196 302	267 543	199 986	156 285	186 585
Scrap	tonnes	2 519 237	2 348 565	1 908 069	1 947 543	1 430 949
Lead						
Ores and concentrates	tonnes	9 096	5 952	11 051	1 631	1 374
Unwrought	tonnes	10 573	18 722	18 859	21 331	19 305
Scrap	tonnes	5 659	6 846	5 419	3 884	11 269
Magnesite and magnesia						
Magnesia	tonnes	460	212	412	309	248
Manganese						
Ores and concentrates	tonnes	...	...	9 085	6 623	23 231
Molybdenum						
Ores and concentrates	tonnes	...	...	652	525	—
Nickel						
Scrap	tonnes	816	561	66	131	65
Crude petroleum	tonnes	78 256	76 061	48 688	60 128	51 070
Phosphate rock	tonnes	20	—	22	—	2 004
Potash						
Chloride	tonnes	5 218	303	390	99	24
Salt	tonnes	790 530	712 657	635 801	808 606	612 954
Silver						
Ores and concentrates	kilograms	...	(b)* 217 000	...	(b)* 181 000	36 200
Sulphur and pyrites						
Sulphur	tonnes	55 961	58 437	54 016	63 651	78 970
Tin						
Unwrought (c)	tonnes	68	128	67	109	78
Titanium						
Metal	tonnes	960	550	375	615	287
Oxides	tonnes	310	498	536	433	583
Tungsten						
Metal	tonnes	9	23	43	5 373	1 266
Zinc						
Ores and concentrates	tonnes	15 375	17 592	16 745	4 080	6 647
Scrap	tonnes	711	597	672	592	885

## Note(s)

(a) Including anthracite

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

(c) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	248 484	370 249	512 538	331 523	256 239
Aluminium and bauxite						
Bauxite	tonnes	1 277 587	1 271 274	1 297 303	1 064 823	1 162 356
Alumina	tonnes	1 928	15 037	2 554	22 819	86 791
Alumina hydrate	tonnes	10 412	5 768	2 841	537	1 001
Unwrought	tonnes	2 163	3 024	2 751	10 877	13 824
Unwrought alloys	tonnes	33 711	24 287	26 311	31 608	50 854
Scrap	tonnes	83 381	62 768	66 878	92 702	83 977
Antimony						
Metal	tonnes	61	43	9	55	18
Oxide	tonnes	88	120	163	138	183
Arsenic						
Metallic arsenic	tonnes	2	5	7	8	16
Asbestos						
Unmanufactured	tonnes	—	...	3	27	103
Barytes						
Barium minerals	tonnes	8 501	15 598	16 874	23 859	20 836
Bentonite	tonnes	4 825	6 341	8 463	8 787	7 789
Cement						
Cement clinkers	tonnes	75 812	144 547	144 116	216 322	207 700
Portland cement	tonnes	307 977	239 373	240 469	208 701	196 179
Other cement	tonnes	22 004	21 297	18 626	14 882	19 494
Chromium						
Ores and concentrates	tonnes	7 054	1 637	2 288	1 514	1 990
Metal	tonnes	16	105	50	151	161
Coal						
Anthracite	tonnes	72 776	148 260	137 388	143 627	131 807
Other coal	tonnes	936 727	840 669	1 142 615	785 892	563 641
Lignite	tonnes	718	1 706	3 492	2 611	387 705
Briquettes	tonnes	96 428	197	197	511	128
Cobalt						
Oxides	tonnes	41	79	27	32	25
Copper						
Unwrought	tonnes	2 282	2 915	1 899	1 997	2 169
Scrap	tonnes	2 443	3 218	2 355	6 279	2 098
Diatomite	tonnes	2 269	2 459	1 827	2 583	2 046
Feldspar	tonnes	36 924	45 421	47 688	39 447	41 451
Fluorspar	tonnes	2 911	3 817	3 178	1 475	1 880
Graphite	tonnes	204	742	601	182	210
Gypsum						
Crude	tonnes	40 703	63 658	92 883	54 106	53 982
Calcined	tonnes	47 912	50 866	43 118	36 964	61 892
Iodine	kilograms	300	500	400	2 500	600
Iron ore						
Iron ore	tonnes	2 848 921	2 186 674	2 023 063	2 545 657	2 225 618
Burnt pyrites	tonnes	29 544	35 551	30 178	17 263	16 569
Iron, steel and ferro-alloys						
Pig iron	tonnes	111 702	48 365	58 954	35 635	11 244
Sponge and powder	tonnes	2 740	22 355	1 777	2 551	4 772
Ferro-chrome	tonnes	1 500	2 856	2 564	1 911	2 803
Ferro-silico-magnesium	tonnes	49	25	104	92	7
Ferro-manganese	tonnes	15 530	18 136	21 039	19 489	21 826
Ferro-silico-manganese	tonnes	19 151	24 215	19 093	10 013	17 029
Ferro-molybdenum	tonnes	274	315	420	365	352
Ferro-niobium	tonnes	55	132	177	172	116
Ferro-phosphorus	tonnes	217	154	119	135	27
Ferro-silicon	tonnes	9 859	9 602	10 392	8 149	7 881
Ferro-titanium and ferro-silico-titanium	tonnes	183	412	284	250	209
Ferro-vanadium	tonnes	153	166	166	211	167
Other ferro-alloys	tonnes	1 255	1 495	635	677	886
Silicon metal	tonnes	3 098	3 205	2 730	2 097	2 445
Ingots, blooms, billets	tonnes	458 742	771 167	328 843	224 868	303 099
Scrap	tonnes	5 501	8 416	49 468	17 655	6 274
Kaolin	tonnes	51 754	56 871	60 170	62 370	69 190

## Romania

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Lead						
Ores and concentrates	tonnes	7 052	9 420	463	831	1 861
Unwrought	tonnes	11 834	16 789	12 777	14 707	14 090
Magnesite and magnesia						
Magnesia	tonnes	10 389	13 391	11 402	8 838	9 393
Manganese						
Ores and concentrates	tonnes	87 880	66 285	244	13	77
Metal	tonnes	220	588	415	517	698
Mercury	kilograms	18 149	19 500	4 200	2 600	1 800
Mica						
Mica	tonnes	785	1 077	810	1 039	841
Molybdenum						
Ores and concentrates	tonnes	1	41	1 516	1	2
Metal	tonnes	31	9	4	2	1 622
Nickel						
Unwrought (a)	tonnes	456	224	190	216	193
Crude petroleum	tonnes	5 821 640	5 451 662	5 127 631	5 299 043	6 727 423
Natural gas	tonnes	* 2 000 000	3 283 138	(b)* 200 000	(b)* 260 000	417 705
Phosphate rock	tonnes	233 377	254 061	229 060	63 150	88 353
Potash						
Sulphate	tonnes	13 726	6 936	17 559	32 233	20 486
Chloride	tonnes	56 922	46 842	21 354	46 300	49 333
Other potassic fertilisers	tonnes	425	683	1 279	1 161	1 253
Rare earths						
Rare earth compounds	tonnes	5	1	2	1	4
Salt	tonnes	81 441	114 500	94 288	107 859	106 703
Silver						
Metal (b)	kilograms	* 27 500	* 8 100	* 15 900	* 14 600	* 71 400
Sulphur and pyrites						
Sulphur	tonnes	2 561	2 965	6 246	4 311	4 461
Sulphur, sublimed and precipitated	tonnes	2 062	2 074	1 807	1 469	1 478
Talc	tonnes	2 099	2 248	2 593	2 284	1 995
Tantalum and niobium						
Tantalum	tonnes	0	* 0	0	* 60	* 81
Tin						
Unwrought (a)	tonnes	85	125	91	120	165
Titanium						
Titanium minerals	tonnes	2 095	5 393	1 354	1 721	1 930
Metal	tonnes	771	541	776	801	543
Oxides	tonnes	8 733	10 571	7 511	8 996	9 451
Tungsten						
Metal	tonnes	79	50	63	45	32
Zinc						
Unwrought (a)	tonnes	16 664	17 006	16 883	18 691	18 128
Scrap	tonnes	246	439	1 628	1 101	1 046
Zirconium						
Metal	tonnes	35	41	1	46	106

## Note(s)

(a) Including alloys

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

## Serbia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Cement						
Cement, clinker	tonnes	...	1 529 226	1 264 333	1 121 538	1 122 964
Coal						
Bituminous	tonnes	108 000	134 000	141 000	160 000	121 000
Lignite (a)	tonnes	37 562 840	40 467 132	37 707 017	39 752 741	29 340 000
Brown coal	tonnes	193 492	349 861	316 507	340 892	354 000
Copper, mine	tonnes (metal content)	22 800	26 100	32 200	36 200	33 739
Copper, refined	tonnes	22 200	28 400	34 700	35 800	33 175
Copper, smelter	tonnes	20 000	28 200	36 800	41 300	40 898
Feldspar	tonnes	253	23 586	19 927	* 20 000	* 20 000
Gold (b)	kilograms	856	1 534	1 400	1 154	* 1 200
Pig iron	tonnes	1 158 628	1 197 693	318 651	366 277	550 000
Crude steel	tonnes	1 254 386	1 304 954	346 000	396 000	583 000
Kaolin	tonnes	76 197	90 472	69 487	* 70 000	* 70 000
Lead, mine	tonnes (metal content)	1 800	2 100	2 500	3 100	3 700
Crude petroleum	tonnes	865 499	1 020 490	1 124 794	1 163 988	1 112 303
Natural gas	million m <sup>3</sup>	423	616	672	660	631
Platinum metals	kilograms					
Platinum	kilograms (metal content)	—	6	3	3	* 3
Palladium	kilograms (metal content)	22	4	22	20	* 20
Salt	tonnes	30 816	23 334	16 506	13 704	12 994
Selenium	tonnes	11	13	13	16	* 16
Silver (c)	kilograms (metal content)	4 384	7 380	8 388	* 8 400	* 8 400
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	21 200	27 800	29 700	29 400	* 29 400
Zinc, mine	tonnes (metal content)	2 600	3 100	6 000	5 800	7 100

#### Notes

- (a) Excluding production in Kosovo
- (b) Metal production
- (c) Smelter and/or refinery production
- (d) From metal sulphide processing

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	127 309	497 637	485 266	211 015	263 545
Aluminium and bauxite						
Unwrought	tonnes	17 602	15 353	10 130	10 713	7 933
Scrap	tonnes	13 574	22 248	20 752	16 939	15 611
Asbestos						
Unmanufactured	tonnes	1	306	...	...	...
Bentonite	tonnes	4 823	11 903	2 972	3 367	65
Cement						
Portland cement	tonnes	156 477	115 432	138 914	81 091	87 741
Coal						
Anthracite	tonnes	4 434	2 507	160	3 009	60
Other coal	tonnes	3 801	1 116	441	1 112	857
Lignite	tonnes	112 009	32 337	28 266	51 729	13 798
Briquettes	tonnes	8 724	573	53	62 273	39 254
Copper						
Ores and concentrates	tonnes	1 666	2 234	4 276	4 158	12 038
Matte and cement	tonnes	2 501	1 649	358	714	306
Unwrought	tonnes	10 280	8 840	15 242	19 712	16 823
Unwrought alloys	tonnes	641	704	370	1 308	1 624
Scrap	tonnes	12 286	9 991	10 496	7 705	7 961
Iron ore						
Burnt pyrites	tonnes	0	34 828	1 547 491	1 288 928	206 424

## Serbia

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Iron, steel and ferro-alloys						
Pig iron	tonnes	70 090	46 629	374 860	910	...
Ingots, blooms, billets	tonnes	20 547	111 080	187 578	266 510	266 038
Scrap	tonnes	416 713	357 778	372 846	330 259	266 550
Kaolin	tonnes	1 868	1 282	1 069	4 649	8 234
Lead						
Ores and concentrates	tonnes	10 265	13 981	13 479	14 917	14 150
Unwrought	tonnes	5 661	7 848	5 777	1 847	55
Magnesite and magnesia						
Magnesite	tonnes	1 851	1 524	1 852	2 551	2 448
Magnesia	tonnes	328	5 831	8 704	3 283	4 167
Potash						
Potassic fertilisers	tonnes	690	3 672	3 546	2 288	957
Salt	tonnes	16 290	13 362	5 073	9 987	9 861
Silver						
Metal	kilograms	4 355	4 222	3 044	7 084	6 978
Sulphur and pyrites						
Sulphur	tonnes	2 335	3 571	2 760	12 556	15 352
Zinc						
Ores and concentrates	tonnes	14 921	23 247	22 559	25 416	24 149
Scrap	tonnes	120	67	907	834	652

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	15 910	8 759	9 907	14 742	19 854
Aluminium and bauxite						
Bauxite	tonnes	10 972	7 800	5 976	3 807	736
Alumina	tonnes	3 682	2 673	3 092	3 190	4 080
Unwrought	tonnes	54 512	51 717	51 578	54 127	49 263
Unwrought alloys	tonnes	13 600	15 834	14 446	17 668	19 465
Scrap	tonnes	8 404	6 870	7 209	10 334	10 053
Barytes						
Barium minerals	tonnes	421	1 494	3 468	2 491	1 578
Bentonite	tonnes	1 683	1 804	5 294	3 906	3 296
Cement						
Cement clinkers	tonnes	1 321	5 309	51 360	27 469	36 541
Portland cement	tonnes	52 582	92 665	194 728	198 866	238 754
Other cement	tonnes	728	784	664	1 979	1 536
Chromium						
Ores and concentrates	tonnes	641	725	211	140	234
Coal						
Anthracite	tonnes	18 056	16 456	13 988	21 017	32 254
Other coal	tonnes	156 846	183 713	178 984	83 968	133 244
Lignite	tonnes	307 250	615 026	716 035	321 145	457 613
Briquettes	tonnes	11 130	8 975	18 239	6 699	4 169
Copper						
Ores and concentrates	tonnes	...	3 063	0	(a)* 4 800	(a)* 12 600
Unwrought	tonnes	37 129	26 995	14 679	8 262	4 152
Scrap	tonnes	342	769	809	2 259	3 117
Crude petroleum	tonnes	1 869 881	1 497 415	1 091 762	1 596 462	1 434 923
Diamond						
Dust	Carats	550 000	885 000	425 000	580 000	485 000
Feldspar	tonnes	10 139	11 864	11 302	9 794	13 208
Gypsum						
Crude	tonnes	14 601	22 546	32 566	25 738	29 987
Calcined	tonnes	9 276	9 962	9 096	7 441	8 292
Iodine	kilograms	8 137	10 876	2 790	748	1 171
Iron ore	tonnes	1 860 593	(b) 1 624 795	(b) 465 170	486 247	850 269

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Iron, steel and ferro-alloys						
Pig iron	tonnes	2 739	1 281	1 073	1 017	569
Sponge and powder	tonnes	217	187	89	1 524	135
Ferro-chrome	tonnes	1 272	1 884	1 327	1 146	551
Ferro-manganese	tonnes	9 524	9 270	2 299	4 893	6 905
Ferro-silico-manganese	tonnes	440	2 431	3 727	3 970	4 182
Ferro-silicon	tonnes	2 418	3 285	2 631	2 355	2 374
Other ferro-alloys	tonnes	324	357	219	219	157
Ingots, blooms, billets	tonnes	283 255	34 913	2 021	1 325	2 622
Scrap	tonnes	12 403	35 192	90 554	169 512	148 094
Kaolin	tonnes	50 421	38 810	25 922	22 219	26 900
Lead						
Ores and concentrates	tonnes	5 978	8 127	2 642	1 475	5
Unwrought	tonnes	6 018	5 302	9 163	3 862	2 486
Scrap	tonnes	1 228	2 643	2 087	45	...
Magnesite and magnesia						
Magnesia	tonnes	570	547	623	899	907
Manganese						
Ores and concentrates	tonnes	17 003	14 366	4 229	5 829	8 780
Metal	tonnes	324	317	254	184	183
Natural gas	tonnes	1 346 955	1 362 390	1 289 674	1 201 886	1 028 997
Phosphate rock	tonnes	20 394	60 024	85 674	97 293	152 508
Potash						
Chloride	tonnes	71 906	53 113	69 712	57 629	66 813
Salt	tonnes	204 395	274 636	246 280	197 570	148 063
Silver						
Metal	kilograms	* 741	* 800	411	1 846	1 670
Sulphur and pyrites						
Sulphur	tonnes	674	721	635	796	1 072
Talc	tonnes	1 616	1 270	1 432	1 957	1 764
Tin						
Unwrought	tonnes	60	72	148	224	406
Titanium						
Oxides	tonnes	3 888	4 498	3 960	4 336	4 430
Zinc						
Unwrought	tonnes	4 846	5 275	5 344	6 418	5 932

## Note(s)

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

(b) Including burnt pyrites

## Slovakia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	6 931 873	6 020 641	3 794 873	3 953 525	3 863 467
Crushed rock	tonnes	14 909 400	13 834 800	10 157 400	8 526 598	10 188 851
Primary aluminium	tonnes	163 000	162 840	160 662	163 000	168 000
Barytes	tonnes	17 000	13 000	21 000	24 000	21 000
Bentonite	tonnes	153 000	213 000	177 000	184 000	205 000
Cement						
Cement, clinker	tonnes	1 607 025	1 823 306	1 490 768	* 1 500 000	* 1 500 000
Cement, finished	tonnes	2 887 749	3 219 557	2 915 166	3 121 000	3 319 320
Coal						
Lignite	tonnes	176 000	124 000	136 000	179 000	166 000
Brown coal	tonnes	2 026 000	1 989 000	1 964 000	2 009 000	1 885 000
Copper, mine	tonnes (metal content)	22	28	31	40	46
Feldspar	tonnes	—	—	—	5 000	6 000
Gold	kilograms	534	398	546	533	582
Gypsum (a)	tonnes	87 000	88 000	88 000	60 000	65 000
Pig iron	tonnes	3 649 000	3 346 000	3 519 755	3 617 000	3 838 000
Crude steel	tonnes	4 583 000	4 236 000	4 403 447	4 511 000	4 705 000
Ferro-alloys						
Ferro-silico-manganese	tonnes	34 960	25 036	50 089	* 50 000	29 643
Ferro-silicon	tonnes	26 419	32 304	32 726	41 664	44 030
Other ferro-alloys	tonnes	38 860	18 575	20 059	* 20 000	26 505
Kaolin	tonnes	—	4 000	3 000	6 000	6 000
Lead, mine	tonnes (metal content)	94	114	166	235	162
Magnesite	tonnes	650 100	751 700	618 400	584 000	557 100
Perlite	tonnes	23 000	23 000	24 000	16 000	17 000
Crude petroleum	tonnes	16 000	18 000	14 000	13 000	13 000
Natural gas	million m <sup>3</sup>	106	106	93	91	87
Silver	kilograms (metal content)	320	330	441	508	437
Sulphur and pyrites						
Recovered (b)	tonnes (sulphur content)	4 900	4 900	4 900	4 900	* 4 900
Recovered (c)	tonnes (sulphur content)	73 200	83 300	76 200	85 300	* 85 300
Talc	tonnes	7 000	7 000	2 000	10 000	3 000
Zinc, mine	tonnes (metal content)	82	103	134	190	176

#### Notes

(a) Including anhydrite

(b) From metal sulphide processing

(c) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates (a)	tonnes	* 598 000	* 615 008	* 525 000	* 534 000	* 615 000
Aluminium and bauxite						
Unwrought	tonnes	44 989	40 011	576	5 715	4 340
Unwrought alloys	tonnes	111 769	118 485	80 141	164 465	153 108
Scrap	tonnes	10 260	14 044	18 207	31 339	29 907
Barytes						
Barium minerals	tonnes	641	230	197	10 831	9 549
Bentonite	tonnes	32 981	85 760	98 257	144 198	159 650
Cement						
Cement clinkers	tonnes	69 366	44 607	—	0	23 569
Portland cement	tonnes	1 396 241	1 795 235	1 407 502	1 876 911	1 937 757
Other cement	tonnes	21 660	10	28	77	28
Chromium						
Metal	tonnes	777	83	2	2	—



## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Coal</b>						
Anthracite	tonnes	725	6 198	9 373	7 955	8 213
Other coal	tonnes	5 128	2 552	10	9 463	1 159
Lignite	tonnes	55	908	53	18 063	11 737
Briquettes	tonnes	108	65	6 486	6 953	7 395
<b>Copper</b>						
Unwrought, unrefined	tonnes	31 685	38 566	40 404	20 077	27 183
Unwrought, refined	tonnes	2 597	4 435	2 751	13 189	15 161
Unwrought alloys	tonnes	1 346	704	619	1 343	2 191
Scrap	tonnes	15 550	19 522	23 250	25 452	19 682
<b>Diamond</b>						
Gem, cut	Carats	7 000 000	3 000 000	500 000	75 000	65 000
Dust	Carats	6 250 000	2 934 017	...	...	—
Feldspar	tonnes	...	58	1	1 532	4 857
<b>Gold</b>						
Metal	kilograms	2 926	20 000	3 300	267 600	886 700
Waste and scrap	kilograms	7 300	6 800	4 800	6 500	200
Iron ore	tonnes	62 568	22 481	118 695	121 558	97 908
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	70 588	26 976	29 527	42 978	18 683
Ferro-chrome	tonnes	10 029	11 189	12 893	10 802	9 185
Ferro-manganese	tonnes	14 032	10 229	4 308	13 223	14 904
Ferro-silico-manganese	tonnes	35 764	28 660	44 202	41 345	44 048
Ferro-molybdenum	tonnes	78	2 416	172	98	24
Ferro-niobium	tonnes	95	46	10	319	289
Ferro-silicon	tonnes	19 656	31 004	26 389	39 296	42 123
Other ferro-alloys	tonnes	3 295	3 180	4 930	6 277	8 190
Ingots, blooms, billets	tonnes	631 135	221 697	413 032	128 932	306 932
Scrap	tonnes	556 952	651 135	430 539	360 818	510 907
Kaolin	tonnes	4 493	552	42	14 067	16 080
<b>Lead</b>						
Unwrought	tonnes	250	539	373	1 577	4 178
Scrap	tonnes	662	737	759	1 258	1 218
<b>Magnesite and magnesia</b>						
Magnesite (a)	tonnes	* 8 400	* 4 900	* 3 800	* 2 600	* 2 700
Magnesia	tonnes	336 786	340 612	272 677	266 320	266 297
<b>Manganese</b>						
Ores and concentrates	tonnes	—	7 508	—	—	3 029
<b>Nickel</b>						
Unwrought	tonnes	68	84	—	1 095	2 147
Scrap	tonnes	295	1 368	217	149	158
Crude petroleum	tonnes	13 048	15 359	11 515	10 042	9 398
Natural gas	tonnes	1 153 269	1 439 467	1 366 942	1 052 157	1 518 006
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	5 800	84 100	29 400	1 800	2 100
Waste and scrap	kilograms	111	764	97	152	30 600
<b>Potash</b>						
Potassic fertilisers	tonnes	51	580	183	859	1 184
Salt	tonnes	45 056	27 935	20 917	20 151	13 942
<b>Silver</b>						
Metal	kilograms	39 100	15 100	31 500	28 800	37 900
<b>Sulphur and pyrites</b>						
Sulphur	tonnes	448	1 998	2 456	2 075	2 528
Sulphur, sublimed and precipitated	tonnes	72 910	82 785	74 817	86 343	74 490
Talc	tonnes	47	38	25	939	1 019
<b>Tin</b>						
Unwrought	tonnes	(b) 8	11	688	1 968	(b) 526
Scrap	tonnes	8	4	9	42	127
<b>Titanium</b>						
Metal	tonnes	49	24	199	91	101
<b>Tungsten</b>						
Metal	tonnes	4	9	43	296	1

Slovakia

Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Zinc						
Unwrought	tonnes	7 903	2 836	3 421	2 385	8 410
Unwrought alloys	tonnes	13 075	7 001	10 336	10 472	13 722

Note(s)

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

(b) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	666 380	527 259	419 992	385 376	225 339
Aluminium and bauxite						
Bauxite	tonnes	4 233	6 136	6 087	9 087	6 772
Alumina	tonnes	270 777	232 187	261 594	320 772	321 679
Unwrought	tonnes	8 916	3 430	1 627	2 082	4 494
Unwrought alloys	tonnes	37 657	40 885	37 654	46 976	56 446
Scrap	tonnes	2 098	3 181	3 667	6 174	7 903
Asbestos						
Unmanufactured	tonnes	—	64	76	96	77
Bentonite	tonnes	6 416	26 935	25 923	6 917	6 956
Cement						
Cement clinkers	tonnes	6 380	9 706	5 840	29 373	33 807
Portland cement	tonnes	256 358	281 910	266 308	300 277	376 153
Other cement	tonnes	34 733	102 134	71 001	60 034	13 249
Chromium						
Ores and concentrates	tonnes	4 546	5 542	3 562	5 459	5 204
Coal						
Anthracite	tonnes	293 054	713 105	635 877	499 374	609 327
Other coal	tonnes	3 063 331	3 177 887	3 245 231	3 133 715	3 125 690
Lignite	tonnes	563 021	534 118	624 731	436 339	463 136
Briquettes	tonnes	12 799	14 836	16 545	25 808	31 121
Cobalt						
Oxides	tonnes	137	97	147	144	240
Copper						
Unwrought	tonnes	6 153	7 531	8 665	10 099	18 795
Scrap	tonnes	40 347	30 687	37 623	28 454	34 097
Diamond						
Gem, rough	Carats	£600 000	£406 000	£923 000	£57 000	£645 000
Gem, cut	Carats	£2 530 000	£2 720 000	£6 610 000	£2 750 000	£913 000
Industrial	Carats	55 000	1 037 208	* 10 000	40 000	15 000
Dust	Carats	18 560 000	325 000	* 600 000	160 000	275 000
Diatomite	tonnes	784	415	461	498	473
Feldspar	tonnes	5 886	5 590	5 518	5 809	5 499
Fluorspar	tonnes	954	762	896	820	1 484
Gold						
Metal	kilograms	220 470	189 400	523 800	120 600	1 124 900
Graphite	tonnes	1 899	1 688	1 847	1 741	2 402
Gypsum						
Crude	tonnes	74 512	80 966	70 308	99 454	104 686
Calcined	tonnes	16 732	17 194	17 335	15 319	14 021
Iodine	kilograms	325	500	300	500	400
Iron ore	tonnes	5 796 813	5 103 229	5 404 215	5 647 197	6 012 384

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Iron, steel and ferro-alloys						
Pig iron	tonnes	33 258	43 874	38 466	36 404	34 910
Sponge and powder	tonnes	13 227	7 294	6 124	6 188	6 119
Ferro-chrome	tonnes	6 829	6 684	8 014	7 056	5 056
Ferro-manganese	tonnes	13 202	16 391	17 286	19 133	20 384
Ferro-silico-manganese	tonnes	1 776	4 904	3 902	22 205	11 071
Ferro-molybdenum	tonnes	140	374	252	213	194
Ferro-niobium	tonnes	315	426	549	540	567
Ferro-phosphorus	tonnes	282	629	463	307	511
Ferro-silicon	tonnes	15 250	12 660	9 171	10 200	11 007
Ferro-titanium and ferro-silico-titanium	tonnes	535	435	281	224	736
Ferro-vanadium	tonnes	62	123	144	127	141
Other ferro-alloys	tonnes	1 627	981	201	267	238
Silicon metal	tonnes	6 309	7 196	6 329	6 735	7 887
Ingots, blooms, billets	tonnes	10 020	24 162	7 314	12 664	10 131
Scrap	tonnes	224 868	146 065	342 657	383 012	248 305
Kaolin	tonnes	62 748	70 451	64 345	70 545	72 923
Lead						
Unwrought	tonnes	136	563	697	252	2 583
Magnesite and magnesia						
Magnesite	tonnes	3 916	4 960	(a)* 2 000	(a)* 3 000	(a)* 1 766
Magnesia	tonnes	28 639	27 100	23 363	20 405	25 213
Manganese						
Ores and concentrates	tonnes	146 434	130 519	144 936	127 764	54 955
Metal	tonnes	442	659	228	207	304
Mercury	kilograms	4 700	27 700	10 000	3 000	5 000
Nickel						
Scrap	tonnes	52	312	35	1	35
Unwrought (b)	tonnes	112	617	103	2 659	1 855
Crude petroleum	tonnes	5 555 541	5 988 119	5 345 149	5 821 927	5 479 990
Natural gas	tonnes	5 765 254	5 747 975	5 577 333	5 378 551	4 475 375
Phosphate rock	tonnes	1 688	1 662	1 299	(a)* 1 000	142
Platinum metals						
Platinum	kilograms	1 625 761	2 662 700	2 339 500	1 544 400	101 800
Palladium	kilograms	2 702	4 400	4 800	500	3 300
Potash						
Chloride	tonnes	22 561	24 631	23 613	18 670	12 171
Other potassic fertilisers	tonnes	2 913	2 260	3 204	1 032	719
Rare earths						
Rare earth compounds	tonnes	8	10	7	10	9
Salt	tonnes	266 329	244 787	226 571	408 235	221 269
Sillimanite minerals	tonnes	2 456	2 917	844	2 002	2 036
Silver						
Metal	kilograms	55 300	* 47 000	268 700	97 800	168 400
Sulphur and pyrites						
Sulphur	tonnes	3 855	3 173	3 115	3 571	3 773
Sulphur, sublimed and precipitated	tonnes	864	1 510	735	576	64
Talc	tonnes	719	380	470	1 098	2 679
Tin						
Unwrought (b)	tonnes	2 087	2 120	2 091	4 119	2 577
Titanium						
Titanium minerals	tonnes	0	1	2	4	6 847
Metal	tonnes	956	2 271	643	778	801
Oxides	tonnes	2 109	2 409	2 163	2 776	2 843
Tungsten						
Metal	tonnes	366	5 398	5 331	2 207	50
Zinc						
Unwrought (b)	tonnes	37 266	34 536	27 313	36 191	50 943

## Note(s)

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

(b) Including alloys

## Slovenia

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	2 422 771	1 899 770	1 707 455	2 143 013	2 799 006
Crushed rock	tonnes	12 072 532	9 626 791	7 557 431	7 067 895	8 123 587
Primary aluminium	tonnes	40 177	75 300	83 300	84 035	* 84 000
Bentonite	tonnes	135	168	98	143	199
Cement						
Cement, finished	tonnes	* 1 000 000	* 1 000 000	745 000	614 000	706 000
Coal						
Lignite	tonnes	4 010 930	4 066 278	3 967 064	3 721 188	3 108 203
Brown coal	tonnes	419 466	435 800	314 262	50 744	—
Crude steel	tonnes	606 000	648 000	632 000	618 000	615 000
Lead, refined	tonnes	14 000	15 000	14 000	12 000	11 000
Crude petroleum	tonnes	233	263	279	298	366
Natural gas	million m <sup>3</sup>	7	2	2	3	3
Salt	tonnes	59	4 291	5 684	3 360	—

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	488 256	426 686	406 872	562 005	660 277
Aluminium and bauxite						
Bauxite	tonnes	6 665	5 738	1 576	1 713	2 813
Alumina	tonnes	239 729	161 747	203 376	196 342	140 481
Unwrought alloys	tonnes	78 619	95 251	94 531	104 253	104 408
Scrap	tonnes	33 972	39 961	52 712	50 473	48 362
Antimony						
Metal	tonnes	—	2	1	40	63
Cement						
Cement clinkers	tonnes	42 475	140 361	175 807	256 109	351 686
Portland cement	tonnes	168 056	200 615	172 090	153 772	201 189
Other cement	tonnes	4 731	988	308	2 487	966
Chromium						
Metal	tonnes	123	174	1	1	3
Coal						
Anthracite	tonnes	760	2 068	615	1 920	1 003
Other coal	tonnes	2	200	—	4 999	—
Cobalt						
Metal	tonnes	65	33	71	96	163
Copper						
Unwrought	tonnes	7 042	5 847	561	2 135	899
Scrap	tonnes	29 276	22 126	33 239	25 751	27 958
Feldspar	tonnes	47	52	—	128	384
Gold						
Waste and scrap	kilograms	5 450	12 200	14 800	1 100	—
Graphite	tonnes	14	661	252	79	402
Iron, steel and ferro-alloys						
Pig iron	tonnes	10 507	21 823	19 227	10 834	12 799
Ferro-chrome	tonnes	5 320	4 757	12 373	14 421	6 900
Ferro-silico-magnesium	tonnes	2 139	2 002	2 197	2 842	4 082
Ferro-manganese	tonnes	1 769	1 317	3 076	5 676	3 974
Ferro-silico-manganese	tonnes	5 959	4 268	3 281	1 200	2 467
Ferro-phosphorus	tonnes	464	569	639	600	693
Ferro-silicon	tonnes	7 280	13 397	9 241	5 150	5 471
Ferro-titanium and ferro-silico-titanium	tonnes	124	123	53	46	123
Other ferro-alloys	tonnes	1 611	1 983	2 357	2 230	4 594
Silicon metal	tonnes	5 568	4 753	764	1 303	6 181
Ingots, blooms, billets	tonnes	17 320	39 269	33 034	36 092	46 103
Scrap	tonnes	343 716	409 401	417 264	395 560	419 844
Kaolin	tonnes	359	277	197	504	300

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Lead						
Unwrought	tonnes	8 090	6 008	5 391	5 995	5 963
Magnesite and magnesia						
Magnesite	tonnes	4 798	78	22	20	30
Magnesia	tonnes	334	259	9 577	125 735	123 173
Nickel						
Unwrought (a)	tonnes	1 544	520	692	527	1 075
Natural gas	tonnes	—	—	—	71 993	258 652
Phosphate rock	tonnes	153 182	164 440	172 405	153 665	174 264
Rare earths						
Metals	tonnes	...	7	2	1	3
Salt	tonnes	21 711	33 998	30 498	17 001	15 002
Silver						
Metal	kilograms	3 100	3 600	3 800	14 400	19 300
Sulphur and pyrites						
Sulphur	tonnes	1 016	145	190	79	403
Titanium						
Metal	tonnes	171	346	356	347	315
Oxides	tonnes	61 637	53 015	47 488	58 140	56 320
Zinc						
Unwrought (a)	tonnes	2 725	918	367	604	1 477
Scrap	tonnes	933	832	1 104	1 173	1 656

Note(s)

(a) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	771 814	486 627	461 601	531 904	741 266
Aluminium and bauxite						
Bauxite	tonnes	41 846	42 555	22 700	44 860	28 914
Alumina	tonnes	328 453	322 872	381 845	376 159	329 588
Alumina hydrate	tonnes	27 252	26 173	15 753	21 712	24 169
Unwrought	tonnes	87 848	65 523	66 209	74 611	78 438
Unwrought alloys	tonnes	65 950	71 318	66 410	84 970	82 509
Scrap	tonnes	51 159	52 860	60 468	69 046	77 241
Antimony						
Metal	tonnes	36	150	25	49	101
Arsenic						
Metallic arsenic	tonnes	* —	11	11	10	15
Barytes						
Barium minerals	tonnes	457	609	881	860	929
Bentonite	tonnes	4 191	4 790	5 905	8 555	6 101
Bismuth						
Metal	tonnes	49	63	57	75	66
Cement						
Cement clinkers	tonnes	129	95 704	168 235	2 549	42
Portland cement	tonnes	328 563	334 053	210 734	206 144	204 199
Other cement	tonnes	17 328	8 237	4 077	2 626	3 179
Chromium						
Ores and concentrates	tonnes	1 912	966	466	677	476
Metal	tonnes	104	97	101	98	108
Coal						
Anthracite	tonnes	7 898	15 300	8 745	15 621	11 015
Other coal	tonnes	18 975	15 329	14 920	13 345	11 545
Lignite	tonnes	544 523	515 659	599 679	496 183	438 744
Cobalt						
Metal	tonnes	141	110	92	206	207
Copper						
Unwrought	tonnes	8 369	7 062	1 287	1 892	1 164
Scrap	tonnes	22 407	12 350	10 222	8 120	8 878

## Slovenia

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Diamond						
Dust	Carats	1 656 306	1 423 460	990 000	1 280 000	1 040 000
Diatomite	tonnes	718	623	397	394	414
Feldspar	tonnes	14 954	13 168	6 012	5 963	5 782
Fluorspar	tonnes	1 754	1 463	1 481	1 586	1 656
Gold						
Metal	kilograms	1 100	1 700	1 100	800	300
Waste and scrap	kilograms	5 400	5 600	1 800	2 300	1 300
Graphite	tonnes	303	232	206	202	219
Gypsum						
Crude and calcined	tonnes	8 557	7 003	6 132	5 411	5 853
Iodine	kilograms	45	35	111	3 529	65
Iron, steel and ferro-alloys						
Pig iron	tonnes	29 120	25 327	30 517	29 660	28 531
Sponge and powder	tonnes	1 225	1 630	794	1 020	1 211
Ferro-chrome	tonnes	26 575	36 528	36 673	51 232	38 659
Ferro-silico-magnesium	tonnes	624	786	1 485	1 377	1 509
Ferro-manganese	tonnes	6 175	5 763	6 318	8 882	7 342
Ferro-silico-manganese	tonnes	8 810	7 697	7 477	5 608	7 487
Ferro-molybdenum	tonnes	717	885	1 028	1 060	1 085
Ferro-nickel	tonnes	...	42	...	—	605
Ferro-phosphorus	tonnes	846	968	1 115	710	978
Ferro-silicon	tonnes	13 114	15 739	15 371	12 419	12 310
Ferro-titanium and ferro-silico-titanium	tonnes	230	232	228	219	306
Ferro-tungsten and ferro-silico-tungsten	tonnes	99	136	65	60	62
Ferro-vanadium	tonnes	481	449	413	471	516
Other ferro-alloys	tonnes	1 795	1 645	1 714	1 433	2 224
Silicon metal	tonnes	7 874	8 318	5 862	5 810	11 851
Ingots, blooms, billets	tonnes	8 191	31 931	20 897	20 770	28 446
Scrap	tonnes	495 432	561 713	552 363	539 994	579 017
Kaolin	tonnes	27 287	28 779	22 614	23 877	25 248
Lead						
Unwrought	tonnes	16 025	17 594	17 294	21 844	27 402
Scrap	tonnes	3 812	3 611	3 741	4 117	5 055
Lithium						
Oxides	tonnes	95	125	190	298	332
Magnesite and magnesia	tonnes	7 279	64 675	109 365	128 518	129 116
Manganese						
Metal	tonnes	433	420	483	417	486
Molybdenum						
Ores and concentrates	tonnes	561	523	473	476	717
Nickel						
Unwrought (a)	tonnes	2 967	3 230	4 304	4 469	4 190
Natural gas	tonnes	828 674	736 641	662 178	719 982	802 609
Phosphate rock	tonnes	153 160	164 442	172 406	153 649	174 270
Potash						
Potassic fertilisers	tonnes	1 919	2 076	1 447	1 574	1 610
Rare earths						
Metals	tonnes	98	26	55	61	65
Rare earth compounds	tonnes	3	3	9	5	13
Salt	tonnes	317 999	235 663	142 926	284 695	169 045
Sillimanite minerals	tonnes	363	921	1 901	3 970	3 706
Silver						
Metal	kilograms	24 100	29 700	25 100	26 900	21 200
Sulphur and pyrites						
Pyrites	tonnes	645	836	921	959	957
Sulphur	tonnes	57 411	56 490	51 225	54 707	57 575
Talc	tonnes	10 793	4 489	4 413	4 618	4 311
Tin						
Unwrought (a)	tonnes	118	70	62	89	93
Titanium						
Titanium minerals	tonnes	25 081	54 387	20 208	19 761	48 861
Metal	tonnes	400	964	739	844	694
Oxides	tonnes	2 917	2 884	2 625	2 954	3 407
Titanium slag	tonnes	...	39 644	57 097	54 482	58 063

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Tungsten						
Metal	tonnes	15	16	28	42	63
Zinc						
Unwrought	tonnes	15 314	14 495	12 916	12 984	14 284
Unwrought alloys	tonnes	5 850	7 374	6 623	8 457	9 576
Scrap	tonnes	313	299	279	384	968

## Note(s)

(a) Including alloys

## Spain

## Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	73 765 882	60 603 982	41 834 967	* 33 300 000	30 000 000
Crushed rock	tonnes	180 105 140	143 579 886	96 056 496	* 67 800 000	65 000 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	* 1 300 000	* 1 300 000	* 1 100 000	* 1 400 000	* 1 400 000
Primary aluminium	tonnes	456 500	408 400	386 395	* 250 000	* 230 000
Barytes	tonnes	2 050	—	—	—	—
Bentonite and Fuller's Earth						
Bentonite	tonnes	157 001	110 371	96 605	102 726	* 100 000
Attapulgite	tonnes	27 841	26 021	23 537	26 764	* 26 800
Sepiolite	tonnes	557 862	566 270	622 372	599 352	555 581
Cement						
Cement, clinker	tonnes	21 234 637	17 000 000	16 719 769	14 600 000	* 15 000 000
Cement, finished	tonnes	26 161 660	22 178 237	15 938 965	* 13 700 000	* 14 000 000
Coal						
Anthracite	tonnes	3 266 041	4 032 683	2 514 649	759 930	1 263 585
Bituminous	tonnes	2 776 918	1 774 992	1 823 343	1 814 328	1 931 807
Sub-bituminous	tonnes	2 443 677	2 358 372	1 826 680	1 870 569	1 347 849
Copper, mine	tonnes (metal content)	54 335	68 511	97 452	104 600	103 900
Copper, smelter	tonnes	259 119	260 730	270 200	212 000	294 100
Copper, refined	tonnes	347 518	353 790	406 600	351 000	418 500
Diatomite (a)	tonnes	64 346	83 624	60 777	53 713	59 619
Feldspar	tonnes	691 894	662 418	530 238	592 908	* 600 000
Fluorspar	tonnes	132 341	117 063	113 570	128 512	135 293
Gold	kilograms	—	529	1 529	1 994	1 800
Gypsum	tonnes	6 990 249	7 825 747	6 359 923	7 388 699	* 7 000 000
Pig iron	tonnes	3 572 000	3 540 000	3 081 000	3 949 000	3 958 000
Crude steel	tonnes	16 343 000	15 504 000	13 639 000	14 252 000	14 163 000
Ferro-alloys						
Ferro-manganese	tonnes	102 200	92 100	* 80 200	* 80 000	* 80 000
Ferro-silico-manganese	tonnes	134 200	142 300	* 148 100	* 150 000	* 150 000
Ferro-silicon	tonnes	* 64 400	* 57 000	* 42 000	* 40 000	* 40 000
Silicon metal	tonnes	* 32 500	* 43 000	* 62 000	* 65 000	* 65 000
Kaolin (b)	tonnes	310 993	384 179	402 251	410 717	350 000
Lead, mine	tonnes (metal content)	229	5 705	3 800	2 200	1 200
Lead, refined	tonnes	165 000	177 000	160 000	157 000	166 000
Lithium						
Lepidolite	tonnes	7 824	—	—	—	—
Magnesite	tonnes	462 959	577 725	649 977	836 269	840 000
Mica (c)	tonnes	4 034	3 609	3 518	3 462	3 500
Nickel, mine	tonnes (metal content)	6 296	—	2 398	7 574	8 631
Crude petroleum	tonnes	121 528	99 925	143 526	367 569	305 263
Natural gas	million m <sup>3</sup>	58	58	65	62	20
Potash						
Chloride	tonnes (K <sub>2</sub> O content)	513 222	520 555	421 652	711 272	972 045
Salt						
Rock salt	tonnes	3 115 940	3 096 383	2 785 959	2 973 993	* 3 000 000
Sea salt	tonnes	1 242 718	1 314 529	1 222 060	1 221 018	1 320 000
Other salt	tonnes	92 644	92 850	100 643	114 829	105 000
Silver	kilograms (metal content)	20 800	29 900	32 943	* 31 000	* 31 000
Strontium minerals	tonnes	83 035	97 102	96 888	90 972	128 077
Sulphur and pyrites						
Recovered (d)	tonnes (sulphur content)	547 400	490 200	578 400	539 200	* 539 000
Recovered (e)	tonnes (sulphur content)	480 000	520 000	545 000	515 000	* 515 000
Talc						
Pyrophyllite	tonnes	—	5 600	* —	—	—
Talc	tonnes	51 897	11 957	8 857	* —	* —
Tin	tonnes (metal content)	—	9	69	0	—
Tungsten	tonnes (metal content)	303	425	496	614	1 036
Wollastonite	tonnes	6 000	7 417	10 918	16 738	15 298



## Production continued

Commodity	Units	2010	2011	2012	2013	2014
Zinc, mine	tonnes (metal content)	17 323	33 197	28 634	30 428	26 756
Slab zinc	tonnes	517 100	527 100	528 300	* 530 000	* 530 000

## Notes

(1) Spain is also believed to produce arsenic

(a) Including Tripoli

(b) Washed

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

(d) From metal sulphide processing

(e) From petroleum refining and/or natural gas

## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 105 524	1 249 318	726 145	953 044	1 293 021
Aluminium and bauxite						
Alumina	tonnes	299 703	391 516	426 925	636 058	709 781
Alumina hydrate	tonnes	126 398	186 543	282 062	227 359	245 468
Unwrought	tonnes	26 693	19 248	29 433	42 539	54 538
Unwrought alloys	tonnes	148 884	175 112	181 026	174 067	200 991
Scrap	tonnes	66 976	51 518	90 881	94 856	80 107
Antimony						
Metal	tonnes	19	50	247	2	11
Oxide	tonnes	1 716	1 784	1 204	2 361	2 457
Barytes						
Barium minerals	tonnes	32 427	34 285	38 285	34 361	33 825
Bentonite	tonnes	66 096	54 547	54 376	56 416	50 219
Sepiolite	tonnes	443 594	502 083	531 475	...	...
Bismuth						
Metal	tonnes	9	9	4	6	15
Bromine	kilograms	15 627	86 311	10 480	72 396	5 303
Cement						
Cement clinkers	tonnes	1 541 790	1 590 245	3 493 671	3 870 209	4 669 688
Portland cement	tonnes	2 768 457	2 594 711	3 021 493	3 333 949	4 361 048
Other cement	tonnes	87 864	174 167	117 257	194 554	119 739
Chromium						
Ores and concentrates	tonnes	600	1 252	4 225	2 250	968
Metal	tonnes	665	237	555	470	518
Coal						
Anthracite	tonnes	337 930	337 833	240 630	351 794	278 244
Other coal	tonnes	1 149 991	851 716	1 620 047	356 469	1 006 016
Cobalt						
Metal	tonnes	4	25	72	6	11
Oxides	tonnes	19	14	37	66	123
Copper						
Ores and concentrates	tonnes	219 996	583 189	528 980	729 177	759 907
Matte and cement	tonnes	25	17 596	9 413	0	149
Unwrought, unrefined	tonnes	33 973	36 562	43 244	37 762	42 487
Unwrought, refined	tonnes	78 030	90 279	146 942	113 585	160 941
Unwrought alloys	tonnes	15 742	16 039	17 598	16 646	18 408
Scrap	tonnes	102 236	87 122	159 419	156 511	150 874
Diamond						
Unsorted	Carats	£292 000	£154 000	£490 000	£390 000	£311 000
Gem, rough	Carats	...	£500 000	£130 000	£160 000	£153 000
Gem, cut	Carats	£7 350 000	£9 802 000	£9 021 000	£11 894 000	£9 086 000
Industrial	Carats	£210 000	£590 000	£42 000	£499 000	£82 000
Dust	Carats	689 563	8 454 551	21 675 000	23 795 000	12 850 000
Diatomite	tonnes	7 382	6 655	10 384	4 271	5 730
Feldspar	tonnes	69 337	71 940	63 644	81 429	99 009
Fluorspar	tonnes	1 680	3 312	5 519	12 754	5 735

## Spain

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Gold</b>						
Metal	kilograms	282 816	9 444 195	4 268 966	3 562 857	2 590 351
Waste and scrap	kilograms	258 156	176 652	113 264	621 165	21 272
Graphite	tonnes	5 369	6 142	5 184	1 620	446
<b>Gypsum</b>						
Crude	tonnes	2 678 452	3 379 570	3 781 205	3 454 407	3 911 285
Calcined	tonnes	165 424	170 384	135 464	188 096	151 664
Iodine	kilograms	14 704	7 909	43 289	90 312	97 866
Iron ore (a)	tonnes	9 079	165 589	184 056	270 073	60 022
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	2 998	7 023	11 831	17 049	9 620
Sponge and powder	tonnes	2 658	3 233	3 000	3 659	5 565
Ferro-chrome	tonnes	1 025	1 181	1 359	2 224	1 616
Ferro-silico-chrome	tonnes	239	236	...	...	323
Ferro-silico-magnesium	tonnes	57	514	569	2 835	784
Ferro-manganese	tonnes	52 296	37 866	42 486	71 628	83 903
Ferro-silico-manganese	tonnes	58 097	65 469	66 101	58 380	45 196
Ferro-molybdenum	tonnes	359	7	55	22	129
Ferro-nickel	tonnes	4	2	47	28	2 272
Ferro-niobium	tonnes	380	518	336	88	235
Ferro-phosphorus	tonnes	57	167	250	391	294
Ferro-silicon	tonnes	12 854	12 952	20 235	17 571	21 927
Ferro-titanium and ferro-silico-titanium	tonnes	18	12	56	190	152
Other ferro-alloys	tonnes	1 436	877	643	797	1 253
Silicon metal	tonnes	18 463	21 864	20 690	19 644	15 884
Ingots, blooms, billets	tonnes	337 566	194 482	134 781	253 033	113 488
Scrap	tonnes	277 401	431 394	737 203	567 955	626 637
Kaolin	tonnes	167 557	161 497	173 332	164 350	200 956
<b>Lead</b>						
Ores and concentrates	tonnes	9 513	24 677	50 216	45 055	45 576
Unwrought	tonnes	6 630	15 683	37 882	13 350	9 434
Scrap	tonnes	6 781	5 029	3 361	7 505	3 436
<b>Lithium</b>						
Carbonate	tonnes	176	268	100	2 477	6 770
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	410	573	1 081	798	970
Magnesia	tonnes	222 825	256 523	256 824	234 020	233 754
<b>Manganese</b>						
Ores and concentrates	tonnes	707	623	621	5 367	1 537
Metal	tonnes	1 297	1 735	4 665	3 880	4 106
Mercury	kilograms	964 922	824 421	950 824	1 008 952	1 123 184
<b>Mica</b>						
Unmanufactured	tonnes	1 339	1 846	1 826	1 904	2 075
Ground	tonnes	2 269	2 193	1 993	613	923
<b>Molybdenum</b>						
Metal	tonnes	243	14	69	79	30
<b>Nickel</b>						
Ores and concentrates	tonnes	106 913	26 597	20 739	100 228	133 552
Unwrought (b)	tonnes	738	400	570	390	1 377
Oxides	tonnes	11	1	104	125	232
Scrap	tonnes	366	376	454	339	1 284
Crude petroleum	tonnes	2	7 592	14	11	1 416 095
Natural gas	tonnes	200 027	555 012	1 325 072	2 483 109	3 779 768
Phosphate rock	tonnes	1 888	10 985	620	269	952
<b>Platinum metals</b>						
Platinum and platinum metals	kilograms	2 347	1 255	21 889	467 717	322 509
Waste and scrap	kilograms	291 877	163 420	68 805	106 813	601 265
<b>Potash</b>						
Sulphate	tonnes	6 474	3 713	4 873	4 150	5 078
Chloride	tonnes	609 429	688 599	737 088	852 298	859 278
Other potassic fertilisers	tonnes	2 365	2 385	3 020	1 879	2 251
<b>Rare earths</b>						
Metals	tonnes	97	51	1	2	2
Cerium compounds	tonnes	51	62	8	25	38
Other rare earth compounds	tonnes	34	32	9	9	6
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	11	72

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Salt	tonnes	1 311 257	1 311 383	807 026	1 496 873	1 145 725
Sillimanite minerals	tonnes	288	358	796	1 585	1 514
Silver						
Ores and concentrates	kilograms	377	9 847	30 748	896	1 278
Metal	kilograms	417 381	383 412	626 782	670 633	13 855 475
Sulphur and pyrites						
Sulphur	tonnes	138 168	361 188	438 368	456 025	396 507
Sulphur, sublimed and precipitated	tonnes	612	289	264	165	660
Talc	tonnes	11 206	28 971	9 844	8 823	8 391
Tantalum and niobium						
Tantalum	tonnes	4	11	3	13	7
Tin						
Unwrought (b)	tonnes	513	449	558	978	580
Scrap	tonnes	376	4 543	2 436	932	817
Titanium						
Titanium minerals	tonnes	2 405	650	4 011	297	227
Metal	tonnes	1 928	1 698	1 779	2 896	1 888
Oxides	tonnes	35 233	48 870	51 919	85 355	81 080
Tungsten						
Ores and concentrates	tonnes	400	981	1 074	958	1 460
Metal	tonnes	315	880	453	504	350
Vanadium						
Pentoxide	tonnes	22	774	26	9	102
Zinc						
Ores and concentrates	tonnes	104 276	122 372	133 163	92 125	71 193
Unwrought	tonnes	318 527	351 378	359 605	303 548	291 072
Unwrought alloys	tonnes	91 054	35 318	38 229	42 674	56 974
Scrap	tonnes	37 362	15 625	8 283	17 625	8 669
Zirconium						
Concentrates	tonnes	122 372	29 952	14 360	8 031	10 191
Metal	tonnes	51	3	64	73	50

## Note(s)

(a) Including burnt pyrites

(b) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	1 029 946	694 299	618 871	475 414	594 772
Aluminium and bauxite						
Bauxite	tonnes	3 325 099	3 080 295	3 693 740	3 510 247	3 806 558
Alumina	tonnes	31 527	61 184	28 910	31 683	31 029
Alumina hydrate	tonnes	29 317	22 917	16 162	13 491	21 749
Unwrought	tonnes	119 589	110 612	107 320	122 958	171 163
Unwrought alloys	tonnes	229 036	219 925	207 511	202 690	207 579
Scrap	tonnes	111 942	125 190	155 371	176 445	200 411
Antimony						
Ores and concentrates	tonnes	103	29	10	7	10
Metal	tonnes	2 642	2 450	1 553	2 760	1 609
Oxide	tonnes	516	494	720	630	606
Arsenic						
Metallic arsenic	tonnes	96	93	143	117	209
Asbestos						
Unmanufactured	tonnes	—	6	28	51	(a)* 632
Barytes						
Barium minerals	tonnes	106 637	70 896	49 674	47 798	60 311
Bentonite	tonnes	114 371	163 119	114 421	103 691	114 219
Bismuth						
Metal	tonnes	141	99	103	107	49
Bromine	kilograms	222 746	250 417	188 015	181 058	215 251

## Spain

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Cadmium						
Metal	tonnes	153	38	37	39	59
Cement						
Cement clinkers	tonnes	1 334 019	490 339	80 228	106 170	103 630
Portland cement	tonnes	637 040	450 416	363 065	274 456	320 675
Other cement	tonnes	14 479	15 884	17 347	24 997	23 245
Chromium						
Ores and concentrates	tonnes	5 579	9 262	10 487	6 644	9 276
Metal	tonnes	1 878	2 350	1 479	1 438	1 854
Coal						
Anthracite	tonnes	846 015	852 813	594 330	544 040	566 371
Other coal	tonnes	10 983 379	15 315 861	21 819 298	13 118 931	15 828 967
Cobalt						
Metal	tonnes	144	159	233	209	259
Oxides	tonnes	1 543	1 837	1 941	2 053	1 881
Copper						
Ores and concentrates	tonnes	1 229 136	1 482 090	1 517 856	1 575 657	1 788 742
Matte and cement	tonnes	992	17 530	9 417	4 889	131
Unwrought, unrefined	tonnes	518	12 747	685	209	347
Unwrought, refined	tonnes	73 877	62 695	44 567	60 873	44 247
Unwrought alloys	tonnes	4 014	6 998	4 109	4 549	4 075
Scrap	tonnes	82 931	89 499	97 129	104 671	114 867
Diamond						
Unsorted	Carats	£1 814 000	£3 864 000	£2 441 000	£2 139 000	£3 635 000
Gem, rough	Carats	£312 000	£276 000	£487 000	£207 000	£303 000
Gem, cut	Carats	£26 488 000	£25 312 000	£24 197 000	£25 904 000	£24 854 000
Industrial	Carats	£275 000	£605 000	£774 000	£580 000	£1 174 000
Dust	Carats	27 500 320	27 699 364	* 19 429 000	* 19 405 000	* 18 568 000
Diatomite	tonnes	8 203	8 026	7 368	6 480	8 202
Feldspar	tonnes	856 406	993 378	926 809	1 092 403	1 235 414
Fluorspar	tonnes	12 008	14 198	16 542	23 713	31 466
Gold						
Metal	kilograms	44 542	46 695	24 180	103 946	803 063
Waste and scrap	kilograms	2 780	29 069	33 912	25 382	21 318
Graphite	tonnes	34 268	10 765	5 579	4 736	4 828
Gypsum						
Crude	tonnes	20 776	13 207	11 943	5 398	11 959
Calcined	tonnes	6 021	5 799	5 548	12 354	14 797
Iodine	kilograms	342 914	522 768	357 482	534 309	461 345
Iron ore (b)	tonnes	5 873 927	5 143 562	4 475 772	6 260 115	5 699 476
Iron, steel and ferro-alloys						
Pig iron	tonnes	442 656	315 904	274 202	219 240	278 949
Sponge and powder	tonnes	636 496	640 549	487 073	724 592	657 961
Ferro-chrome	tonnes	164 125	152 254	180 740	168 647	202 818
Ferro-silico-chrome	tonnes	1 854	5 448	4 037	5 878	5 673
Ferro-silico-magnesium	tonnes	1 567	2 139	2 696	1 935	1 946
Ferro-manganese	tonnes	19 930	15 256	23 224	14 088	6 801
Ferro-silico-manganese	tonnes	39 895	36 803	39 584	36 653	33 322
Ferro-molybdenum	tonnes	6 446	6 943	10 662	7 733	4 690
Ferro-nickel	tonnes	47 389	43 284	45 528	47 485	44 498
Ferro-niobium	tonnes	983	1 334	1 000	3 627	20 093
Ferro-phosphorus	tonnes	1 425	1 816	1 282	1 478	1 515
Ferro-silicon	tonnes	27 581	29 894	28 149	30 794	74 775
Ferro-titanium and ferro-silico-titanium	tonnes	1 203	1 120	957	1 575	1 376
Ferro-tungsten and ferro-silico-tungsten	tonnes	55	60	1 079	187	161
Ferro-vanadium	tonnes	1 088	1 094	964	3 595	1 057
Other ferro-alloys	tonnes	6 138	8 566	7 401	7 581	7 618
Silicon metal	tonnes	8 446	11 801	12 573	16 647	8 840
Ingots, blooms, billets	tonnes	1 269 577	1 061 766	1 025 012	789 798	976 739
Scrap	tonnes	5 708 900	4 764 338	4 348 807	4 851 614	4 928 152
Kaolin	tonnes	1 061 703	1 055 912	856 355	1 016 611	1 078 541
Lead						
Ores and concentrates	tonnes	10 946	6 698	4 651	1 536	1 682
Unwrought	tonnes	110 316	114 428	122 913	110 576	94 173
Scrap	tonnes	43 432	42 236	34 702	35 284	32 249

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Lithium						
Oxides	tonnes	1 007	706	763	645	647
Carbonate	tonnes	3 239	3 877	2 638	2 905	2 765
Magnesite and magnesia						
Magnesite	tonnes	3 926	6 164	2 675	2 189	13 109
Magnesia	tonnes	99 436	105 674	91 916	65 530	71 435
Manganese						
Ores and concentrates	tonnes	407 450	508 794	413 613	542 836	595 513
Metal	tonnes	7 510	10 951	6 470	7 047	8 461
Mercury	kilograms	335 852	54 748	54 994	70 325	10 054
Mica	tonnes	1 183	1 538	1 017	1 538	1 819
Molybdenum						
Ores and concentrates	tonnes	2 585	3 572	3 041	3 136	4 211
Metal	tonnes	239	83	78	42	47
Nickel						
Ores and concentrates	tonnes	5	1	—	6 888	11 492
Scrap	tonnes	151	806	554	386	728
Unwrought	tonnes	16 540	17 495	20 230	18 352	22 034
Unwrought alloys	tonnes	2 033	2 593	2 049	1 510	1 203
Oxides	tonnes	329	323	131	43	28
Crude petroleum	tonnes	52 714 224	51 960 524	58 285 251	58 583 900	62 353 860
Natural gas	tonnes	27 795 263	27 529 122	26 622 307	26 177 038	25 681 312
Phosphate rock	tonnes	1 017 820	377 348	345 571	312 525	385 790
Platinum metals						
Platinum and platinum metals (a)	kilograms	* 3 500	* 3 000	* 2 500	* 3 000	* 3 000
Waste and scrap	kilograms	29 183	17 845	13 104	5 866	114 289
Potash						
Sulphate	tonnes	40 716	34 477	43 865	46 773	42 717
Chloride	tonnes	209 552	221 210	232 397	242 393	220 390
Other potassic fertilisers	tonnes	1 607	1 283	968	426	683
Rare earths						
Metals	tonnes	421	9	19	93	296
Cerium compounds	tonnes	543	636	455	729	457
Other rare earth compounds	tonnes	216	102	155	438	266
Ferro-cerium and other pyrophoric alloys	tonnes	41	33	22	35	209
Salt	tonnes	85 807	116 804	48 061	182 413	54 335
Sillimanite minerals						
Sillimanite minerals	tonnes	27 611	32 091	12 372	24 416	30 600
Mullite	tonnes	4 934	6 153	2 465	3 274	4 371
Silver						
Ores and concentrates	kilograms	11 317	17 131	123 171	11 356	3 395
Metal	kilograms	1 513 257	828 017	431 934	8 665 969	10 281 452
Sulphur and pyrites						
Pyrites	tonnes	1 160	476	384	922	805
Sulphur	tonnes	68 214	44 724	13 291	20 710	25 114
Sulphur, sublimed and precipitated	tonnes	229	176	300	669	1 069
Talc	tonnes	84 536	88 989	80 421	91 965	92 006
Tin						
Unwrought	tonnes	6 335	5 992	5 744	5 300	6 583
Unwrought alloys	tonnes	176	428	122	82	142
Scrap	tonnes	2 410	5 386	801	799	1 019
Titanium						
Titanium minerals	tonnes	111 298	123 284	99 055	130 406	155 814
Metal	tonnes	2 627	3 673	3 411	4 285	3 614
Oxides	tonnes	91 822	90 581	67 970	79 052	88 028
Tungsten						
Ores and concentrates	tonnes	44	15	17	13	4
Metal	tonnes	426	216	506	596	620
Carbide	tonnes	25	51	35	41	38
Vanadium						
Pentoxide	tonnes	115	52	56	57	36
Zinc						
Ores and concentrates	tonnes	958 485	977 695	1 069 671	994 451	1 057 670
Unwrought	tonnes	7 583	16 841	6 091	4 623	12 274
Unwrought alloys	tonnes	15 388	11 025	7 235	7 156	8 081
Scrap	tonnes	10 935	23 205	9 620	38 266	41 625

Spain

Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Zirconium						
Concentrates	tonnes	149 442	143 493	63 341	99 858	116 434
Metal	tonnes	132	97	124	136	136

Note(s)

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

(b) Including burnt pyrites

## Sweden

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	* 17 000 000	* 17 000 000	13 809 028	11 399 554	10 970 490
Crushed rock	tonnes	* 57 000 000	* 58 000 000	71 839 600	66 621 935	68 034 725
Primary aluminium	tonnes	93 000	111 000	129 000	131 000	113 000
Cement						
Cement, clinker	tonnes	1 790 784	* 1 750 000	* 1 750 000	* 1 750 000	* 1 750 000
Cement, finished	tonnes	2 298 000	2 546 000	2 611 000	2 654 000	2 885 000
Copper, mine	tonnes (metal content)	76 514	82 967	82 422	82 904	79 681
Copper, refined	tonnes	190 497	219 316	214 050	206 193	217 337
Copper, smelter	tonnes	141 500	161 500	151 100	140 400	150 000
Feldspar	tonnes	22 000	30 000	27 000	30 000	27 000
Gold	kilograms	6 285	5 994	6 015	6 530	6 849
Iron ore	tonnes	28 797 000	30 840 000	32 198 000	37 411 000	35 759 000
Pig iron	tonnes	3 447 000	3 240 000	2 805 000	2 896 000	3 078 000
Crude steel	tonnes	4 845 600	4 867 000	4 326 000	4 404 000	4 539 000
Ferro-alloys						
Ferro-chrome	tonnes	64 400	80 140	35 800	55 078	65 703
Lead, mine	tonnes (metal content)	67 697	62 028	63 551	59 556	70 848
Lead, refined	tonnes	59 179	52 438	61 528	68 713	68 708
Selenium metal	tonnes	72	70	70	100	* 100
Silver	kilograms (metal content)	302 145	301 959	309 337	341 346	382 611
Sulphur and pyrites						
Recovered (a)	tonnes (sulphur content)	180 540	211 280	198 850	194 938	205 616
Recovered (b)	tonnes (sulphur content)	83 947	92 973	93 442	64 587	86 538
Talc	tonnes	4 000	3 000	—	—	—
Tellurium metal	tonnes	—	—	7	24	31
Zinc, mine	tonnes (metal content)	198 687	194 021	188 325	176 582	221 841

#### Notes

(a) From metal sulphide processing

(b) From petroleum refining and/or natural gas

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	2 248 515	1 624 154	1 602 379	1 234 782	1 079 882
Aluminium and bauxite						
Alumina	tonnes	19 037	13 870	10 401	9 818	6 560
Unwrought (a)	tonnes	190 589	183 681	188 936	172 557	175 092
Scrap	tonnes	88 070	95 632	108 353	103 323	112 292
Bentonite	tonnes	3 457	3 300	5 492	9 949	10 085
Bismuth						
Metal	tonnes	11	1	—	—	—
Cadmium						
Oxide	tonnes	360	429	335	330	338
Cement						
Cement clinkers	tonnes	505 585	267 884	391 898	357 876	132 346
Portland cement	tonnes	467 559	590 443	782 362	752 187	1 166 546
Other cement	tonnes	5 819	7 120	8 546	7 774	7 694
Chromium						
Metal	tonnes	191	167	123	122	140
Cobalt						
Metal	tonnes	220	99	200	364	223
Copper						
Ores and concentrates	tonnes	24	8 010	4 266	4	—
Unwrought	tonnes	71 394	92 971	105 338	91 292	108 584
Unwrought alloys	tonnes	8 563	5 615	3 585	4 773	4 738
Scrap	tonnes	43 311	58 031	58 829	56 469	66 735

## Sweden

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Diamond						
Dust	Carats	500 000	—	—	...	2 000 000
Diatomite	tonnes	829	1 098	1 214	1 116	1 138
Feldspar	tonnes	11 251	19 258	16 831	14 081	21 413
Fluorspar	tonnes	8 101	11 053	13 714	11 668	10 106
Gold						
Metal	kilograms	14 700	12 900	16 600	15 100	14 600
Waste and scrap	kilograms	5 100	21 000	9 700	2 400	21 900
Graphite	tonnes	254	129	129	114	192
Gypsum						
Crude and calcined	tonnes	8 155	3 865	4 466	6 522	7 375
Iodine	kilograms	700	900	7 900	(b)* 500	(b)* 600
Iron ore	tonnes	20 726 152	21 115 203	22 869 383	23 455 915	23 727 480
Iron, steel and ferro-alloys						
Pig iron	tonnes	146 027	133 387	109 644	34 960	66 844
Sponge and powder	tonnes	12 335	313 081	297 427	293 451	302 616
Ferro-chrome	tonnes	51 010	2 752	2 525	37 393	43 515
Ferro-manganese and ferro-silico-manganese	tonnes	3 517	3 581	2 835	2 395	2 826
Ferro-molybdenum	tonnes	340	375	294	253	276
Ferro-niobium	tonnes	475	622	771	743	1 062
Ferro-phosphorus	tonnes	582	448	479	497	535
Ferro-silicon	tonnes	6 905	6 903	15 630	20 102	12 954
Ferro-tungsten and ferro-silico-tungsten	tonnes	5	25	165	403	219
Other ferro-alloys	tonnes	68	75	78	56	162
Silicon metal	tonnes	2 337	1 274	1 206	1 409	2 013
Ingots, blooms, billets	tonnes	261 273	235 814	450 860	415 798	256 503
Scrap	tonnes	1 352 399	1 484 197	1 543 542	1 317 282	1 490 281
Kaolin	tonnes	23 103	16 444	7 032	769	605
Lead						
Ores and concentrates	tonnes	111 153	73 996	68 646	43 506	64 208
Unwrought	tonnes	55 501	54 370	51 796	71 771	66 869
Scrap	tonnes	1 445	1 471	1 425	1 113	9 181
Magnesite and magnesia						
Magnesia	tonnes	303	165	130	69	109
Nickel						
Unwrought (a)	tonnes	497	599	1 690	385	1 021
Oxides	tonnes	534	516	429	406	401
Scrap	tonnes	1 022	1 137	13 853	1 265	1 396
Crude petroleum	tonnes	2	3 105	22 040	2 797	699
Natural gas	tonnes	21	6 159	475	13 416	25 221
Phosphate rock	tonnes	125	2 253	1 826	1 558	2 536
Platinum metals						
Platinum and platinum metals	kilograms	£429 000	£1 203 000	£801 000	£1 550 000	£2 194 000
Waste and scrap	kilograms	69 000	43 600	39 100	24 900	62 100
Potash						
Sulphate	tonnes	93 796	84 381	69 205	79 724	99 551
Rare earths						
Cerium compounds	tonnes	9	* 0	5	3	3
Salt	tonnes	12 742	13 297	8 973	6 459	7 219
Silver						
Metal	kilograms	412 900	428 500	480 100	457 100	501 000
Sulphur and pyrites						
Sulphur	tonnes	2 768	3 980	10 145	13 751	11 598
Sulphur, sublimed and precipitated	tonnes	11 564	10 344	5 248	1 601	2 380
Talc	tonnes	9 014	8 308	4 598	4 915	3 598
Tin						
Unwrought (a)	tonnes	163	52	32	46	56
Scrap	tonnes	27	71	34	48	110
Titanium						
Metal	tonnes	925	1 086	1 111	981	1 453
Oxides	tonnes	20 567	18 331	16 429	15 109	16 125
Tungsten						
Ores and concentrates	tonnes	—	21	149	105	25
Metal	tonnes	289	218	122	495	197
Carbide	tonnes	401	186	109	87	28



## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Zinc						
Ores and concentrates	tonnes	362 085	374 501	343 725	333 534	411 944
Scrap	tonnes	2 900	3 257	3 166	2 877	2 143

## Note(s)

(a) Including alloys

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	533 148	802 173	944 006	924 873	988 134
Aluminium and bauxite						
Bauxite	tonnes	6 660	10 460	12 271	13 074	15 944
Alumina	tonnes	211 393	266 978	258 634	278 411	210 340
Alumina hydrate	tonnes	95 073	77 121	64 907	66 055	68 803
Unwrought	tonnes	35 506	22 371	26 948	22 447	38 605
Unwrought alloys	tonnes	188 198	175 194	125 377	108 735	134 294
Scrap	tonnes	48 508	47 458	49 270	59 064	72 278
Antimony						
Oxide	tonnes	219	227	194	153	149
Barytes						
Barium minerals	tonnes	4 406	4 224	3 947	2 666	3 510
Bentonite	tonnes	200 422	214 173	231 973	189 875	237 429
Bismuth						
Metal	tonnes	12	2	4	2	24
Cadmium						
Metal	tonnes	825	1 127	1 172	1 108	1 529
Oxide	tonnes	107	172	145	105	13
Cement						
Cement clinkers	tonnes	36 629	58 132	5 230	8 044	76 665
Portland cement	tonnes	348 431	419 332	391 030	403 823	455 351
Other cement	tonnes	36 399	42 002	43 520	67 981	84 244
Chromium						
Ores and concentrates (a)	tonnes	* 169 000	* 128 600	* 135 900	* 79 000	* 221 900
Metal	tonnes	4 999	6 598	6 139	5 490	3 870
Coal						
Anthracite	tonnes	48 767	38 136	34 827	32 706	33 818
Other coal	tonnes	3 236 437	2 971 646	2 218 768	2 499 142	2 729 091
Cobalt						
Metal	tonnes	396	571	443	287	442
Copper						
Ores and concentrates	tonnes	302 514	300 878	310 772	270 120	274 664
Unwrought, unrefined	tonnes	3 100	5 843	6 690	7 826	6 903
Unwrought, refined	tonnes	46 383	31 760	30 772	6 906	475
Unwrought alloys	tonnes	5 181	3 186	2 588	3 222	3 362
Scrap	tonnes	108 971	121 099	139 188	152 058	103 319
Diamond						
Unsorted	Carats	£125 000	£105 000	£178 000	£128 828	£148 000
Gem, cut	Carats	9 615	12 118	* 8 000	* 8 000	* 8 000
Industrial	Carats	26 277	5 390	* 8 100	* 12 000	* 23 000
Dust	Carats	8 000 000	9 500 000	22 000 000	61 500 000	67 500 000
Diatomite	tonnes	8 099	8 247	7 532	7 410	7 037
Feldspar	tonnes	6 410	4 363	547	3 803	4 140
Fluorspar	tonnes	9 451	14 980	10 729	6 815	10 717
Gold						
Metal	kilograms	£32 625 000	£42 028 000	£33 413 000	£38 738 665	£33 702 000
Waste and scrap	kilograms	£12 243 000	£33 337 000	£26 246 000	£1 074 504	£984 000
Graphite	tonnes	1 315	1 129	779	893	844
Gypsum						
Crude	tonnes	256 696	324 584	294 946	271 096	337 505
Calcined	tonnes	73 865	58 751	48 111	60 279	64 079

## Sweden

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Iodine	kilograms	1 100	1 800	8 600	1 700	2 900
Iron ore						
Iron ore	tonnes	55 078	51 334	44 285	26 028	26 374
Burnt pyrites	tonnes	16 743	24 561	22 191	...	4 014
Iron, steel and ferro-alloys						
Pig iron	tonnes	58 974	78 818	58 329	53 075	57 075
Sponge and powder	tonnes	11 668	24 398	34 982	39 343	32 521
Ferro-chrome	tonnes	90 630	74 988	56 996	64 917	69 787
Ferro-silico-chrome	tonnes	1 805	4 133	803	1 251	1 901
Ferro-silico-magnesium	tonnes	424	20	44	28	38
Ferro-manganese	tonnes	60 577	57 927	45 423	36 501	35 293
Ferro-silico-manganese	tonnes	9 099	11 586	15 965	15 241	18 638
Ferro-molybdenum	tonnes	4 388	4 723	4 913	5 205	4 374
Ferro-nickel	tonnes	7 995	10 119	10 119	11 819	16 693
Ferro-niobium	tonnes	1 146	1 544	1 614	1 645	2 122
Ferro-phosphorus	tonnes	415	632	584	671	657
Ferro-silicon	tonnes	37 424	37 743	44 736	38 173	37 700
Ferro-titanium and ferro-silico-titanium	tonnes	1 127	1 459	1 731	1 421	1 526
Ferro-vanadium	tonnes	729	1 058	954	766	841
Other ferro-alloys	tonnes	2 097	1 894	1 691	1 676	1 514
Silicon metal	tonnes	6 818	5 375	6 112	8 391	9 264
Ingots, blooms, billets	tonnes	193 605	203 669	151 187	121 328	168 391
Scrap	tonnes	217 682	245 225	236 125	256 251	295 477
Kaolin	tonnes	367 948	389 358	359 345	316 362	324 835
Lead						
Ores and concentrates	tonnes	14 763	—	—	—	10
Unwrought	tonnes	5 340	5 783	6 616	6 876	6 235
Scrap	tonnes	9 464	8 401	9 624	9 282	9 572
Lithium						
Oxides	tonnes	214	243	213	235	218
Carbonate	tonnes	87	69	159	126	136
Magnesite and magnesia						
Magnesia	tonnes	12 004	20 425	19 081	18 068	21 886
Manganese						
Ores and concentrates	tonnes	522	438	412	504	535
Metal	tonnes	3 815	5 241	3 438	4 838	5 889
Mercury	kilograms	2 700	2 400	1 400	1 200	5 000
Mica	tonnes	673	545	419	429	488
Molybdenum						
Ores and concentrates	tonnes	5 487	5 893	6 110	5 988	6 218
Metal	tonnes	644	360	356	160	172
Oxides	tonnes	414	357	496	880	673
Nickel						
Mattes, sinters etc	tonnes	1 239	1 723	1 008	777	179
Scrap	tonnes	10 491	10 332	8 801	8 898	9 881
Unwrought	tonnes	23 375	23 191	17 878	17 406	18 291
Unwrought alloys	tonnes	397	216	542	1 226	839
Crude petroleum	tonnes	18 236 284	17 988 419	20 429 251	15 900 863	17 390 820
Natural gas	tonnes	1 066 174	899 467	816 561	804 417	745 739
Phosphate rock	tonnes	3 869	12 968	10 687	4 831	4 244
Platinum metals						
Platinum and platinum metals	kilograms	£7 551 000	£8 430 000	£12 301 000	£8 081 000	£10 548 769
Waste and scrap	kilograms	1 500	19 800	12 700	1 100	5 200
Potash						
Sulphate	tonnes	1 789	2 551	1 340	1 855	1 663
Chloride	tonnes	55 671	79 863	81 282	74 406	92 734
Other potassic fertilisers	tonnes	5 858	9 276	8 187	5 193	2 719
Rare earths						
Metals	tonnes	37	48	72	62	52
Cerium compounds	tonnes	47	55	31	1	1
Other rare earth compounds	tonnes	7	9	16	37	21
Salt	tonnes	905 190	933 936	745 276	958 222	669 334
Sillimanite minerals	tonnes	4 782	5 174	4 225	4 677	4 906
Silver						
Ores and concentrates	kilograms	...	(a)* 87	(a)* 131	...	72 400
Metal	kilograms	83 700	90 900	94 900	80 900	68 500

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Sulphur and pyrites						
Pyrites	tonnes	874	825	744	820	754
Sulphur	tonnes	56 961	65 296	42 457	34 206	48 378
Sulphur, sublimed and precipitated	tonnes	200	145	130	138	555
Talc	tonnes	25 998	22 202	22 507	18 259	18 149
Tin						
Unwrought (b)	tonnes	435	189	149	201	180
Titanium						
Titanium minerals	tonnes	1 854	645	629	661	1 569
Metal	tonnes	1 936	2 390	2 245	2 072	2 323
Oxides	tonnes	61 191	62 054	53 030	52 729	53 879
Tungsten						
Metal	tonnes	179	302	538	407	280
Carbide	tonnes	1 308	2 050	852	1 088	881
Zinc						
Unwrought	tonnes	37 524	30 598	24 686	23 619	25 827
Unwrought alloys	tonnes	5 905	6 282	5 907	6 536	6 910
Zirconium						
Metal	tonnes	220	120	146	119	121

## Note(s)

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

(b) Including alloys

## Switzerland

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	* 40 000 000	51 940 000	49 780 000	49 480 000	53 940 000
Crushed rock	tonnes	* 5 000 000	2 432 977	2 328 758	2 445 464	2 401 627
Cement						
Cement, finished (a)	tonnes	4 553 077	4 687 138	4 395 084	4 563 931	4 583 355
Gypsum	tonnes	335 000	300 000	297 000	284 000	242 000
Crude steel	tonnes	1 320 000	1 400 000	* 1 450 000	* 1 530 000	* 1 500 000
Salt	tonnes	643 000	478 324	492 700	560 076	418 389

## Notes

(a) Includes production in Liechtenstein

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	193 312	188 183	274 029	215 232	222 546
Aluminium and bauxite						
Unwrought (a)	tonnes	20 954	23 397	23 439	25 570	22 153
Scrap	tonnes	131 819	138 643	141 836	149 337	157 396
Asbestos						
Unmanufactured	tonnes	42	17	10	30	...
Cement						
Cement clinkers	tonnes	6 983	104	35	350	45
Portland cement	tonnes	103 952	63 262	72 143	142 900	151 319
Other cement	tonnes	2 959	51	67	467	227
Chromium						
Metal	tonnes	82	92	111	322	275
Cobalt						
Metal	tonnes	80	97	113	125	103
Copper						
Unwrought	tonnes	832	1 030	935	1 470	1 779
Scrap	tonnes	75 973	84 373	86 964	80 104	82 237
Diamond						
Gem, rough	Carats	14 892	3 628	5 000	5 000	5 000
Gem, cut	Carats	357 976	435 272	145 000	110 000	140 000
Dust	Carats	60 980 000	70 880 000	59 620 000	72 175 000	60 575 000
Diatomite	tonnes	453	564	629	447	266
Gold						
Metal	kilograms	1 605 359	1 867 822	1 627 583	2 853 431	1 824 340
Waste and scrap	kilograms	105 407	94 837	71 297	162 383	154 409
Graphite	tonnes	326	100	96	85	100
Gypsum						
Crude and calcined	tonnes	8 536	8 606	7 283	5 386	4 597
Iodine	kilograms	349	239	238	17 244	1 952
Iron, steel and ferro-alloys						
Sponge and powder	tonnes	2 191	981	1 013	908	184
Ferro-alloys	tonnes	1 191	1 299	848	1 026	874
Ingots, blooms, billets	tonnes	66 642	85 201	70 375	74 934	74 578
Scrap	tonnes	623 910	630 837	626 757	714 655	633 366
Kaolin	tonnes	287	55	201	425	189
Lead						
Scrap	tonnes	5 497	5 732	5 301	4 424	4 407
Lithium						
Oxides	tonnes	190	1	83	91	92
Mercury	kilograms	8 529	53 581	164 517	132 596	87 222
Nickel						
Unwrought (a)	tonnes	173	130	62	63	103
Scrap	tonnes	1 090	909	1 214	1 069	1 649

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Platinum metals						
Platinum	kilograms	72 006	63 853	64 331	53 309	30 715
Palladium	kilograms	70 662	60 859	56 950	50 029	42 138
Other platinum metals	kilograms	464	494	836	977	1 252
Waste and scrap	kilograms	314 061	289 174	241 307	365 333	260 344
Rare earths						
Cerium compounds	tonnes	2	9	5	3	4
Other rare earth compounds	tonnes	1	1	5	1	1
Salt	tonnes	67 537	71 525	58 820	70 945	61 889
Silver						
Metal	kilograms	1 456 475	1 779 063	1 719 300	2 490 396	2 195 532
Sulphur and pyrites						
Sulphur	tonnes	5 310	4 864	2 160	5 494	4 854
Tantalum and niobium						
Tantalum	tonnes	—	1	2	...	23
Tin						
Scrap	tonnes	118	131	169	102	112
Titanium						
Metal	tonnes	805	868	724	887	1 038
Oxides	tonnes	1 466	1 666	1 623	2 009	2 130
Tungsten						
Metal	tonnes	476	398	400	323	448
Zinc						
Scrap	tonnes	2 582	2 846	2 284	1 889	2 222

Note(s)

(a) Including alloys

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	8 010 059	8 566 572	8 611 775	8 315 656	8 687 660
Aluminium and bauxite						
Bauxite	tonnes	6 718	11 898	10 924	10 792	5 779
Alumina	tonnes	10 662	9 957	8 625	8 295	9 855
Alumina hydrate	tonnes	20 697	19 131	17 473	16 761	16 310
Unwrought	tonnes	148 099	166 853	159 296	162 271	169 257
Unwrought alloys	tonnes	84 113	70 200	59 087	60 952	82 461
Scrap	tonnes	33 341	36 829	43 797	50 969	52 345
Antimony						
Oxide	tonnes	1 108	1 131	583	505	492
Barytes						
Barium minerals	tonnes	3 020	3 156	3 359	3 429	3 434
Bentonite	tonnes	20 362	19 316	19 203	19 982	19 037
Bismuth						
Metal	tonnes	25	18	12	16	15
Cement						
Cement clinkers	tonnes	74 946	46 117	2 580	62 514	82 786
Portland cement	tonnes	465 699	538 979	526 305	588 965	642 843
Other cement	tonnes	49 549	73 361	92 633	121 136	144 179
Chromium						
Ores and concentrates	tonnes	1 051	809	1 359	1 253	643
Metal	tonnes	74	71	93	147	104
Coal						
Anthracite	tonnes	7 164	7 144	12 121	16 400	10 766
Other coal	tonnes	124 096	92 473	129 051	128 071	29 523
Lignite	tonnes	62 756	69 378	48 704	59 651	131 895
Briquettes	tonnes	3 328	2 887	3 750	4 490	2 066
Cobalt						
Metal	tonnes	318	298	260	222	320

## Switzerland

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Copper</b>						
Unwrought	tonnes	3 229	2 353	2 006	2 371	2 595
Unwrought alloys	tonnes	4 137	3 520	3 489	3 495	3 616
Scrap	tonnes	6 061	4 178	2 244	4 039	4 105
<b>Diamond</b>						
Gem, rough	Carats	20 460	3 263	5 000	10 000	5 000
Gem, cut	Carats	840 245	1 227 118	1 185 000	1 280 000	1 195 000
Dust	Carats	74 015 000	101 250 000	82 185 000	103 905 000	80 765 000
Diatomite	tonnes	5 758	4 642	5 177	5 634	5 578
Feldspar	tonnes	6 593	6 124	4 575	4 504	5 268
Fluorspar	tonnes	492	210	181	111	111
<b>Gold</b>						
Metal	kilograms	2 343 070	2 684 244	2 280 215	3 092 010	2 242 812
Waste and scrap	kilograms	219 260	205 846	28 550	14 390	19 450
Graphite	tonnes	848	823	454	841	854
<b>Gypsum</b>						
Crude	tonnes	112 555	94 474	81 642	78 329	107 446
Calcined	tonnes	100 958	104 574	113 112	116 822	128 964
Iodine	kilograms	10 238	10 839	13 172	13 865	9 232
<b>Iron ore</b>						
Iron ore	tonnes	5 382	12 537	12 046	9 224	12 244
Burnt pyrites	tonnes	15 171	14 916	13 386	10 991	8 162
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	16 812	17 969	13 207	15 397	13 826
Sponge and powder	tonnes	6 668	4 812	4 780	4 959	4 133
Ferro-chrome	tonnes	1 480	1 846	1 519	1 852	2 021
Ferro-manganese	tonnes	11 566	9 721	10 871	10 771	12 019
Ferro-silico-manganese	tonnes	3 767	4 948	4 292	5 474	5 100
Ferro-molybdenum	tonnes	174	230	157	190	165
Ferro-phosphorus	tonnes	321	191	200	235	163
Ferro-silicon	tonnes	5 014	5 937	4 527	4 607	5 413
Ferro-vanadium	tonnes	548	544	187	130	55
Other ferro-alloys	tonnes	381	561	272	606	409
Silicon metal	tonnes	1 385	1 661	1 014	953	1 042
Ingots, blooms, billets	tonnes	18 026	61 349	49 448	45 336	33 908
Scrap	tonnes	452 626	456 700	343 770	417 588	427 354
Kaolin	tonnes	24 249	21 460	21 551	17 924	16 830
<b>Lead</b>						
Unwrought	tonnes	5 664	2 838	5 519	3 186	2 372
<b>Lithium</b>						
Oxides	tonnes	118	141	98	136	101
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	362	793	521	1 122	50
Magnesia	tonnes	4 625	4 917	5 734	13 961	12 034
<b>Manganese</b>						
Ores and concentrates	tonnes	214	333	357	181	207
Metal	tonnes	556	509	490	385	284
Mercury	kilograms	1 370	471	5 096	246	—
Mica	tonnes	1 226	866	893	630	713
<b>Nickel</b>						
Unwrought (a)	tonnes	1 370	1 199	1 320	1 224	1 214
Crude petroleum	tonnes	4 534 930	4 302 674	3 231 713	4 891 059	4 963 792
Natural gas	tonnes	2 759 930	2 521 494	2 644 533	2 857 193	2 536 886
Phosphate rock	tonnes	3 657	20 007	15 024	13 770	297
<b>Platinum metals</b>						
Platinum	kilograms	49 089	57 415	39 955	38 007	25 303
Palladium	kilograms	41 454	43 310	27 123	28 836	25 681
Other platinum metals	kilograms	813	873	1 065	1 488	1 252
Waste and scrap	kilograms	912 680	459 360	413 819	410 984	421 031
<b>Potash</b>						
Sulphate	tonnes	4 914	5 899	6 638	5 248	8 023
Chloride	tonnes	16 865	14 730	11 866	12 201	12 965
Other potassic fertilisers	tonnes	2 049	1 159	1 136	990	805

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Rare earths						
Metals	tonnes	4	5	21	11	5
Cerium compounds	tonnes	31	18	15	11	14
Other rare earth compounds	tonnes	16	12	17	40	38
Ferro-cerium and other pyrophoric alloys	tonnes	...	5	3	23	1
Salt	tonnes	37 731	58 307	23 179	27 569	9 701
Sillimanite minerals	tonnes	1 162	1 596	1 079	1 580	1 169
Silver						
Ores and concentrates (b)	kilograms	* 24 000	* 115 000	* 30 000	* 31 000	* 22 000
Metal	kilograms	1 746 243	2 155 625	2 397 273	1 935 822	1 279 130
Sulphur and pyrites						
Pyrites	tonnes	185	128	131	116	248
Sulphur	tonnes	17 414	13 072	14 257	14 183	14 121
Talc	tonnes	8 490	7 666	6 975	7 377	7 074
Tin						
Unwrought (a)	tonnes	863	737	799	857	835
Titanium						
Metal	tonnes	971	1 081	1 177	1 207	1 463
Oxides	tonnes	19 725	22 198	16 806	18 186	19 436
Tungsten						
Metal	tonnes	143	226	234	176	156
Zinc						
Unwrought	tonnes	15 521	12 747	11 702	11 554	10 560
Unwrought alloys	tonnes	2 276	2 158	1 930	1 648	2 080

## Note(s)

(a) Including alloys

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

# Turkey

## Production

Commodity	Units	2010	2011	2012	2013	2014
Bauxite	tonnes	1 311 064	1 024 915	1 521 150	795 562	* 800 000
Alumina	tonnes (Al <sub>2</sub> O <sub>3</sub> content)	* 160 000	* 210 000	* 220 000	* 186 000	* 190 000
Primary aluminium	tonnes	54 100	56 400	43 700	32 200	30 400
Antimony	tonnes (metal content)	1 403	2 340	7 119	4 512	* 4 500
Barytes	tonnes	172 618	250 786	* 250 000	* 250 000	* 340 000
Bentonite and Fuller's Earth						
Bentonite	tonnes	718 260	471 528	1 033 568	622 872	* 620 000
Sepiolite	tonnes	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Borates	tonnes	2 504 249	2 729 849	1 814 725	1 748 231	* 1 750 000
Cadmium	tonnes	—	—	—	12	* 12
Cement						
Cement, clinker	tonnes	54 222 939	53 228 248	* 53 000 000	* 53 000 000	* 53 000 000
Cement, finished	tonnes	70 800 657	66 656 800	67 019 400	72 687 000	71 239 000
Chromium	tonnes	2 461 314	2 281 981	3 295 398	4 140 655	* 4 100 000
Coal						
Anthracite	tonnes	6 312 137	5 619 316	3 358 843	* 3 100 000	* 3 100 000
Bituminous	tonnes	* 3 000 000	3 542 223	3 502 009	2 789 338	* 2 800 000
Lignite	tonnes	86 943 392	79 968 510	75 036 558	* 75 000 000	* 75 000 000
Copper, mine	tonnes (metal content)	79 900	92 500	104 300	120 500	122 000
Copper, refined	tonnes	47 300	74 354	59 673	75 000	71 200
Copper, smelter	tonnes	* 25 000	* 30 600	* 35 500	* 35 800	* 35 100
Diatomite	tonnes	18 448	45 187	86 403	84 751	* 85 000
Feldspar	tonnes	6 281 597	7 076 068	7 076 068	7 090 677	7 609 692
Fluorspar	tonnes	25 189	4 524	5 197	3 874	* 3 800
Gold	kilograms	16 890	24 000	29 390	33 980	31 000
Graphite	tonnes	—	5 250	31 500	28 740	* 28 500
Gypsum	tonnes	6 321 891	5 723 439	8 248 446	9 790 097	* 9 800 000
Iron ore	tonnes	5 378 455	6 308 448	7 599 511	* 7 700 000	* 7 700 000
Pig iron	tonnes	16 362 115	14 877 155	18 289 109	19 548 094	* 20 000 000
Crude steel	tonnes	29 029 789	30 562 184	35 885 000	34 654 000	34 035 000
Ferro-alloys						
Ferro-chrome	tonnes	* 50 000	* 40 000	* 40 000	* 40 000	* 40 000
Ferro-silico-chrome	tonnes	* 3 000	* 3 000	* 3 000	* 3 000	* 3 000
Kaolin	tonnes	787 287	1 229 352	988 081	1 027 189	734 072
Lead, mine	tonnes (metal content)	39 000	38 682	57 017	76 638	62 190
Lead, refined	tonnes	* 42 000	* 48 000	* 50 000	* 50 000	* 55 000
Magnesite	tonnes	2 316 763	2 588 276	2 475 828	2 597 465	* 2 600 000
Manganese	tonnes	134 336	172 480	192 756	321 785	* 320 000
Mica	tonnes	36 009	17 542	1 253	2 304	* 2 300
Molybdenum	tonnes (metal content)	—	3	—	1	* 1
Natural gas	million m <sup>3</sup>	626	536	547	562	* 550
Nickel, mined	tonnes (metal content)	2 539	848	3 805	1 076	2 400
Perlite	tonnes	545 585	702 673	887 600	1 075 949	* 1 100 000
Crude petroleum	tonnes	2 602 114	* 2 600 000	2 957 000	2 508 894	2 373 000
Salt	tonnes	4 044 254	6 545 546	5 254 813	5 564 736	* 5 500 000
Silver	kilograms (metal content)	363 520	246 500	193 890	189 600	205 000
Natural sodium carbonate	tonnes	1 623 192	1 749 068	1 852 817	1 665 077	* 1 650 000
Sulphur and pyrites						
Pyrites	tonnes (sulphur content)	55 152	56 780	52 080	45 348	* 40 000
Recovered (a)(b)	tonnes (sulphur content)	72 900	72 900	72 900	* 72 900	* 72 900
Sulphur ore	tonnes (sulphur content)	427	3 820	5 889	8 069	* 10 000
Talc						
Pyrophyllite	tonnes	192 643	115 462	85 251	101 872	* 100 000
Talc	tonnes	1 826	9 959	14 537	1 132	* 1 100
Zinc, mine	tonnes (metal content)	195 500	158 057	195 793	195 025	210 152

### Notes

(a) From petroleum refining and/or natural gas

(b) Other



## Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	955 765	1 237 704	1 299 391	1 534 475	1 160 902
Aluminium and bauxite						
Bauxite	tonnes	331 458	158 232	166 744	215 732	212 747
Alumina	tonnes	190 094	96	—	...	...
Alumina hydrate	tonnes	2 910	21 172	—	—	—
Unwrought	tonnes	42 090	4 868	—	...	...
Unwrought alloys	tonnes	36 994	38 640	36 106	30 280	39 011
Scrap	tonnes	14 291	12 020	9 905	13 346	19 918
Antimony						
Ores and concentrates	tonnes	2 765	2 977	2 450	3 150	2 935
Metal	tonnes	21	6	113	554	367
Barytes						
Barium minerals	tonnes	175 497	144 238	157 967	215 363	273 831
Bentonite	tonnes	307 891	319 189	337 860	394 169	379 107
Cement						
Cement clinkers	tonnes	2 792 332	2 472 979	2 980 566	2 176 337	2 927 812
Portland cement	tonnes	15 842 398	11 750 755	10 716 605	10 290 995	8 026 728
Other cement	tonnes	415 763	315 159	104 504	165 249	137 515
Chromium						
Ores and concentrates	tonnes	2 256 387	2 161 001	2 129 693	2 218 264	1 503 900
Metal	tonnes	184	1 930	2 344	63	168
Coal						
Anthracite	tonnes	717	5 210	5 700	1 356	5 602
Other coal	tonnes	37 319	802	1 534	4 464	58 088
Lignite	tonnes	4 554	43 942	48 706	13 204	5 969
Copper						
Ores and concentrates	tonnes	421 536	257 914	351 882	428 144	342 957
Unwrought	tonnes	2 106	2 845	5 701	1 026	1 864
Unwrought alloys	tonnes	6 764	10 135	7 673	9 101	9 710
Scrap	tonnes	12 426	5 124	9 226	23 251	17 478
Diamond						
Dust	Carats	1 253 750	7 702 486	400 000	10 000	2 070 000
Diatomite	tonnes	37 432	28 104	36 985	55 673	46 832
Feldspar	tonnes	3 759 104	3 973 160	4 107 038	4 139 071	4 629 112
Fluorspar	tonnes	174	243	244	357	726
Gold						
Metal	kilograms	56 035	30 226	282 160	71 980	78 083
Waste and scrap	kilograms	619	1 360	...	580	84 829
Graphite	tonnes	220	761	766	836	663
Gypsum						
Crude	tonnes	134 905	111 864	107 000	62 545	29 276
Calcined	tonnes	682 898	708 056	789 505	882 998	788 435
Iodine	kilograms	2 960	4 877	2 480	3 393	18 747
Iron ore						
Iron ore	tonnes	195 770	273 798	323 089	858 755	1 029 111
Burnt pyrites	tonnes	4 830	22 752	100 447	96 577	45 670
Iron, steel and ferro-alloys						
Pig iron	tonnes	8 028	9 357	7 723	6 240	4 640
Sponge and powder	tonnes	1 326	7 581	1 422	3 174	599
Ferro-chrome	tonnes	74 570	76 255	75 555	104 259	103 552
Ferro-silico-chrome	tonnes	4	3 994	593	1 512	150
Ferro-manganese	tonnes	4 410	3 536	2 003	2 249	1 842
Ferro-silico-manganese	tonnes	2 362	2 172	1 237	1 472	1 131
Ferro-silicon	tonnes	4 619	5 807	2 653	2 676	3 987
Other ferro-alloys	tonnes	203	892	202	408	201
Ingots, blooms, billets	tonnes	3 716 586	2 459 563	2 985 209	1 566 856	603 113
Scrap	tonnes	94 498	105 914	95 152	101 685	168 061
Kaolin	tonnes	137 963	83 203	110 139	91 294	117 304
Lead						
Ores and concentrates	tonnes	64 247	65 917	93 590	130 217	109 067
Unwrought	tonnes	400	802	2 522	1 726	922
Magnesite and magnesia						
Magnesite	tonnes	24 213	37 902	28 747	38 569	22 746
Magnesia	tonnes	209 633	238 620	245 537	266 279	231 851

## Turkey

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Manganese						
Ores and concentrates	tonnes	51 731	100 172	118 953	310 479	126 140
Metal	tonnes	4 952	12	3 535	1 468	943
Mercury	kilograms	2 156	10 890	4 392	1 245	6 690
Mica	tonnes	601	1 039	1 054	624	572
Molybdenum						
Ores and concentrates	tonnes	160	266	—	1 498	1 522
Metal	tonnes	42	64	11	22	2
Nickel						
Ores and concentrates	tonnes	172 682	378 350	302 100	104 212	163 916
Unwrought	tonnes	(a) 292	(a) 96	(a) 204	(a) 223	373
Scrap	tonnes	519	841	783	992	1 273
Crude petroleum (b)	tonnes	* 1 139 000	* 702 000	* 99 000	* 2 371 000	* 2 057 000
Natural gas	tonnes	590 182	(b)* 653 000	(b)* 589 000	(b)* 498 000	(b)* 450 000
Phosphate rock	tonnes	620	1 454	937	105 453	1 338
Platinum metals						
Platinum and platinum metals	kilograms	5 124	2 765	589	4 743	695
Waste and scrap	kilograms	4 491	5 332	13 244	550	1 236
Potash						
Potassic fertilisers	tonnes	6 533	6 504	3 654	6 620	5 558
Rare earths						
Cerium compounds	tonnes	5	10	5	9	23
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	...	50	21
Salt	tonnes	262 050	417 596	66 690	90 656	159 791
Sillimanite minerals	tonnes	2 623	3 357	4 444	6 278	22
Silver						
Metal	kilograms	144 942	202 886	216 509	209 094	93 889
Sulphur and pyrites						
Pyrites	tonnes	1	...	48	1 243	14 730
Sulphur	tonnes	279 822	56 143	59 116	47 765	62 847
Sulphur, sublimed and precipitated	tonnes	21 068	7 949	8 757	9 454	6 221
Talc	tonnes	2 865	2 711	2 635	3 401	3 380
Tantalum and niobium						
Tantalum	tonnes	2	—	22	13	16
Titanium						
Metal	tonnes	85	95	122	193	327
Oxides	tonnes	2 650	3 170	2 538	2 749	2 821
Tungsten						
Metal	tonnes	139	237	210	227	220
Zinc						
Ores and concentrates	tonnes	392 725	316 714	412 744	399 384	422 982
Unwrought (a)	tonnes	666	1 704	2 130	2 443	2 490
Scrap	tonnes	1 536	2 997	2 960	1 903	1 469

## Note(s)

(a) Including alloys

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

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	9 372	3 487	7 129	10 516	5 199
Aluminium and bauxite						
Bauxite	tonnes	35 652	36 358	28 947	34 716	32 484
Alumina	tonnes	15 772	15 434	14 740	19 709	21 272
Alumina hydrate	tonnes	27 721	35 739	41 275	49 347	54 081
Unwrought	tonnes	460 915	553 191	576 670	627 747	675 861
Unwrought alloys	tonnes	281 588	332 228	356 862	362 548	418 621
Scrap	tonnes	24 952	25 107	20 811	21 408	34 307
Antimony						
Ores and concentrates	tonnes	82	121	0	11	13
Metal	tonnes	219	245	256	273	249
Oxide	tonnes	885	739	705	817	925

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Arsenic						
Metallic arsenic	tonnes	55	10	49	78	143
Barytes						
Barium minerals	tonnes	342	2 863	5 567	29 019	31 297
Bentonite	tonnes	1 641	1 915	1 952	2 037	1 955
Bismuth						
Metal	tonnes	11	16	7	15	10
Cement						
Cement clinkers	tonnes	58 176	10 511	58 098	99 947	123 558
Portland cement	tonnes	5 875	3 406	21 972	23 322	3 841
Other cement	tonnes	6 168	10 847	7 142	6 982	8 117
Chromium						
Ores and concentrates	tonnes	113 487	122 070	162 266	152 549	129 697
Metal	tonnes	65	108	91	183	131
Coal						
Anthracite	tonnes	972 425	990 996	854 104	665 244	783 126
Other coal	tonnes	21 048 121	22 721 500	28 405 516	25 960 988	29 033 299
Lignite	tonnes	5 339	—	75	7 103	—
Cobalt						
Metal	tonnes	145	171	159	190	190
Oxides	tonnes	199	277	364	384	543
Copper						
Unwrought, unrefined	tonnes	5 892	4 329	2 824	478	44
Unwrought, refined	tonnes	332 482	337 337	348 938	362 854	363 801
Unwrought alloys	tonnes	6 601	9 450	6 695	2 946	2 617
Scrap	tonnes	3 943	6 181	3 806	3 663	10 600
Diamond						
Gem	Carats	131 146	141 277	2 080 000	1 270 000	2 175 000
Industrial	Carats	46 890	82 417	65 000	90 000	170 000
Dust	Carats	25 190 000	31 125 000	36 995 000	34 835 000	36 360 000
Diatomite	tonnes	1 319	1 702	2 124	2 247	2 290
Feldspar	tonnes	39 953	34 726	47 361	39 456	41 695
Fluorspar	tonnes	37 977	48 210	53 627	56 451	61 641
Gold						
Metal	kilograms	64 105	128 367	157 629	350 563	192 182
Graphite	tonnes	11 191	13 138	8 171	11 776	8 796
Gypsum						
Crude	tonnes	232 713	375 169	295 462	347 834	310 438
Calcined	tonnes	1 782	1 916	2 259	2 485	3 431
Iodine	kilograms	3 218	6 641	6 163	4 423	5 561
Iron ore	tonnes	7 220 977	6 644 310	7 842 126	8 114 387	8 543 994
Iron, steel and ferro-alloys						
Pig iron	tonnes	557 398	1 137 729	1 376 572	982 579	912 961
Sponge and powder	tonnes	284 608	180 591	387 667	510 327	223 419
Ferro-chrome	tonnes	8 159	9 061	6 493	8 093	5 429
Ferro-silico-chrome	tonnes	1	200	600	0	0
Ferro-silico-magnesium	tonnes	786	1 344	2 064	1 910	1 280
Ferro-manganese	tonnes	61 866	59 326	54 195	47 517	47 835
Ferro-silico-manganese	tonnes	229 451	243 637	252 758	243 123	263 189
Ferro-molybdenum	tonnes	1 577	1 091	1 181	1 106	1 125
Ferro-niobium	tonnes	147	424	550	392	529
Ferro-phosphorus	tonnes	1 050	1 035	1 117	817	684
Ferro-silicon	tonnes	87 552	107 151	100 727	108 702	109 772
Ferro-titanium and ferro-silico-titanium	tonnes	167	480	629	701	852
Ferro-vanadium	tonnes	261	591	562	769	776
Other ferro-alloys	tonnes	7 366	8 213	6 639	5 653	5 293
Silicon metal	tonnes	9 978	10 363	10 777	7 215	9 814
Ingots, blooms, billets	tonnes	2 350 758	2 157 532	3 355 265	5 429 936	4 777 554
Scrap	tonnes	19 138 460	21 452 724	22 415 045	19 725 026	19 068 005
Kaolin	tonnes	424 152	497 148	479 665	404 283	441 998
Lead						
Unwrought	tonnes	73 057	85 131	99 137	91 337	105 082
Lithium						
Oxides	tonnes	268	261	236	273	238
Carbonate	tonnes	770	865	1 006	1 304	1 598
Magnesite and magnesia						
Magnesia	tonnes	60 121	58 556	50 199	56 723	58 607

## Turkey

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Manganese						
Ores and concentrates	tonnes	694	1 295	534	529	565
Metal	tonnes	980	1 202	863	1 356	1 890
Mercury	kilograms	719	9 772	3 143	1 490	3 476
Mica	tonnes	317	508	285	483	407
Nickel						
Unwrought (a)	tonnes	3 391	4 047	4 012	4 233	4 332
Oxides	tonnes	144	108	104	170	189
Crude petroleum	tonnes	16 873 392	18 049 163	19 479 238	20 091 078	17 481 481
Phosphate rock	tonnes	686 966	814 382	711 627	745 424	911 012
Potash						
Sulphate	tonnes	34 986	28 989	36 459	22 799	25 613
Chloride	tonnes	82 923	93 471	94 930	116 098	151 935
Other potassic fertilisers	tonnes	1 075	109	107	113	127
Rare earths						
Metals	tonnes	14	13	10	5	8
Cerium compounds	tonnes	233	128	120	160	103
Other rare earth compounds	tonnes	13	8	4	11	11
Ferro-cerium and other pyrophoric alloys	tonnes	...	...	13	18	107
Salt	tonnes	154 536	254 045	248 663	(b)* 72 000	13 959
Sillimanite minerals						
Sillimanite minerals	tonnes	5 466	6 907	6 905	9 434	11 122
Mullite	tonnes	12 675	10 733	8 827	5 530	2 072
Silver						
Metal	kilograms	90 064	209 909	226 227	299 109	316 698
Sulphur and pyrites						
Pyrites	tonnes	480	323	142	205	329
Sulphur	tonnes	141 478	161 866	151 955	136 430	127 648
Sulphur, sublimed and precipitated	tonnes	592	292	382	302	118
Talc	tonnes	20 026	26 952	23 496	28 004	23 085
Tin						
Unwrought (a)	tonnes	2 558	2 707	2 195	2 420	2 581
Titanium						
Titanium minerals	tonnes	7 390	9 454	7 328	9 292	9 281
Metal	tonnes	298	357	356	556	642
Oxides	tonnes	127 266	144 383	117 269	130 866	141 078
Tungsten						
Metal	tonnes	74	70	71	46	72
Zinc						
Unwrought	tonnes	182 598	201 409	224 683	234 744	237 999
Unwrought alloys	tonnes	2 876	6 504	5 261	10 059	13 969
Zirconium						
Concentrates	tonnes	4 823	4 770	3 268	4 130	4 808

## Note(s)

(a) Including alloys

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

## United Kingdom

### Production

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates						
Sand and gravel	tonnes	61 700 000	63 100 000	56 600 000	58 000 000	61 100 000
Crushed rock (a)	tonnes	94 203 000	102 800 000	94 800 000	94 300 000	100 000 000
Primary aluminium	tonnes	186 000	213 000	60 000	45 000	41 000
Barytes	tonnes	34 099	31 000	30 000	* 30 000	* 44 000
Cement						
Cement, clinker	tonnes	6 598 000	7 096 000	6 555 000	6 712 000	7 197 000
Cement, finished (b)	tonnes	7 883 000	8 529 000	7 952 000	8 203 000	8 958 000
Coal						
Bituminous (c)	tonnes	18 347 000	18 552 000	16 967 000	12 767 000	11 648 000
Fluorspar	tonnes	26 420	—	—	30 000	77 000
Gold	kilograms	177	202	102	42	—
Gypsum	tonnes	* 1 200 000	* 1 200 000	* 1 200 000	* 1 200 000	* 1 200 000
Indium	tonnes	* 5	* 5	* 5	* 5	* 5
Pig iron	tonnes	7 233 000	6 625 000	7 183 100	9 471 000	9 705 000
Crude steel	tonnes	9 708 000	9 478 000	9 579 100	11 857 500	12 120 000
Kaolin	tonnes	* 1 140 000	* 1 290 000	* 1 150 000	* 1 110 000	* 1 090 000
Lead, mine	tonnes (metal content)	(f) * 380	(d) 280	(d) 61	(f) * 100	(g) * 100
Lead, refined	tonnes	301 000	275 000	311 930	329 200	267 000
Nickel, smelter/refinery	tonnes	31 600	37 400	34 300	40 400	39 100
Crude petroleum	tonnes	62 962 000	51 972 000	44 560 000	40 646 000	39 550 000
Natural gas	million m <sup>3</sup>	59 707	47 733	41 054	38 475	38 517
Potash						
Chloride	tonnes (K <sub>2</sub> O content)	* 403 800	* 462 000	* 540 000	* 540 000	* 600 000
Salt	tonnes	6 666 000	6 060 000	6 460 000	6 930 000	* 5 000 000
Silver	kilograms (metal content)	506	531	230	82	—
Sulphur and pyrites						
Recovered (e)	tonnes (sulphur content)	162 000	165 000	158 000	313 000	134 000
Talc	tonnes	2 633	3 708	3 667	2 947	4 907

#### Notes

- (1) United Kingdom is also believed to produce arsenic.  
(2) Production capacity for synthetic mullite also exists 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) By-product of gold mining in Northern Ireland  
(e) From petroleum refining and/or natural gas  
(f) By product of Pennine fluorspar operations and of gold mining in Northern Ireland  
(g) By product of Pennine fluorspar operations

### Exports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	10 992 431	10 800 338	8 823 773	9 223 542	8 700 345
Aluminium and bauxite						
Bauxite	tonnes	3 140	5 936	2 929	4 804	4 339
Alumina	tonnes	5 879	5 114	3 590	3 247	4 116
Alumina hydrate (a)	tonnes	* 2 100	* 2 600	* 10 700	* 1 600	* 1 900
Unwrought	tonnes	43 665	49 959	9 597	8 510	6 364
Unwrought alloys	tonnes	364 612	356 170	279 263	188 996	219 143
Scrap	tonnes	443 466	440 399	445 730	402 060	452 620
Antimony						
Metal	tonnes	77	57	237	425	525
Oxide	tonnes	490	290	422	152	127
Barytes						
Barium minerals (b)	tonnes	17 851	15 648	19 072	13 854	13 550

## United Kingdom

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Bentonite	tonnes	41 323	38 478	39 535	37 694	31 347
Bismuth						
Metal	tonnes	427	1 038	744	407	348
Bromine	kilograms	780 704	1 472 523	1 377 726	645 676	751 037
Cadmium						
Metal	tonnes	2 545	1 441	272	99	44
Cement						
Cement clinkers	tonnes	5 500	15 531	31 458	24 056	21 059
Portland cement	tonnes	134 223	121 537	239 058	85 405	68 225
Other cement	tonnes	56 781	62 333	75 502	76 851	71 169
Chromium						
Ores and concentrates	tonnes	297	168	50	50	57
Metal	tonnes	7 441	8 017	7 737	7 061	7 216
Coal						
Anthracite	tonnes	89 701	97 014	119 826	143 133	81 353
Other coal	tonnes	615 067	502 581	417 654	456 259	343 800
Briquettes	tonnes	89 125	117 025	150 783	106 890	108 844
Cobalt						
Unwrought	tonnes	730	843	676	732	615
Metal	tonnes	1 780	1 739	1 865	3 136	1 996
Oxides	tonnes	1 267	820	1 179	1 493	1 434
Scrap	tonnes	494	363	685	700	887
Copper						
Unwrought	tonnes	9 048	18 145	25 145	17 538	1 198
Unwrought alloys	tonnes	12 782	16 872	15 441	21 946	19 226
Scrap	tonnes	421 868	513 394	373 943	291 924	295 741
Diamond						
Unsorted	Carats	3 689 202	2 735 369	2 974 099	11 165 256	14 606 086
Gem, rough	Carats	51 769 860	41 541 219	46 117 478	34 651 963	581 879
Gem, cut	Carats	283 435	1 292 162	1 702 424	284 182	470 026
Industrial	Carats	2 478 568	3 864 054	3 949 553	2 001 018	2 430 399
Dust	Carats	113 451 535	42 269 921	32 288 331	28 709 324	19 103 486
Diatomite	tonnes	1 650	797	659	497	734
Fluorspar	tonnes	412	590	75	16 127	49 078
Gold						
Metal	kilograms	293 153	775 261	266 572	1 736 966	1 890 797
Waste and scrap	kilograms	496 924	272 597	1 928 197	388 290	726 210
Graphite	tonnes	2 981	3 660	2 196	2 011	1 608
Gypsum						
Crude	tonnes	3 330	3 428	4 036	4 745	4 296
Calcined	tonnes	24 552	25 504	21 216	19 481	19 957
Iodine	kilograms	393 005	234 182	370 132	190 878	304 611
Iron ore (c)	tonnes	5 256	179 709	108 415	71 811	3 860
Iron, steel and ferro-alloys						
Pig iron	tonnes	4 339	2 074	3 775	1 652	1 758
Sponge and powder	tonnes	2 938	3 775	4 585	4 858	4 067
Ferro-alloys	tonnes	45 314	43 918	49 357	47 949	47 413
Ferro-chrome	tonnes	2 403	1 853	2 288	2 108	3 537
Ferro-silico-chrome	tonnes	22	364	72	168	362
Ferro-silico-magnesium	tonnes	366	338	327	240	119
Ferro-manganese	tonnes	8 361	819	658	407	2 721
Ferro-silico-manganese	tonnes	52	132	7 503	3 626	791
Ferro-molybdenum	tonnes	11 248	12 948	12 421	11 922	12 491
Ferro-nickel	tonnes	15	49	539	183	68
Ferro-niobium	tonnes	224	179	257	162	195
Ferro-phosphorus	tonnes	667	766	562	558	336
Ferro-silicon	tonnes	2 958	6 594	4 659	5 109	3 400
Ferro-titanium and ferro-silico-titanium	tonnes	15 197	17 662	18 040	22 652	22 831
Other ferro-alloys	tonnes	3 802	2 213	2 030	814	562
Silicon metal	tonnes	2 901	3 662	3 027	4 979	5 422
Ingots, blooms, billets	tonnes	1 137 160	668 885	1 817 820	3 164 861	3 197 397
Scrap	tonnes	7 507 853	7 744 411	7 160 639	6 777 534	6 934 918
Kaolin	tonnes	1 722 335	1 157 780	1 039 460	1 003 841	984 272

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Lead</b>						
Unwrought	tonnes	105 235	144 877	169 739	144 718	150 270
Unwrought alloys	tonnes	62 406	4 820	6 050	5 521	3 006
Scrap	tonnes	69 404	74 789	57 990	53 746	56 432
<b>Lithium</b>						
Oxides	tonnes	144	7	41	39	65
Carbonate	tonnes	123	50	102	86	138
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	470	745	1 163	1 744	1 266
Magnesia	tonnes	14 497	28 042	14 869	14 017	11 531
<b>Manganese</b>						
Ores and concentrates	tonnes	97	129	101	284	3 983
Metal (a)	tonnes	* 2 000	* 2 100	* 1 600	* 1 200	* 700
Mercury	kilograms	9 321	5 368	2 991	3 405	10 421
Mica	tonnes	4 137	4 238	3 639	4 679	4 714
<b>Molybdenum</b>						
Ores and concentrates	tonnes	305	3	64	—	—
Metal	tonnes	572	403	375	472	797
Scrap	tonnes	490	299	280	355	514
Nepheline-syenite	tonnes	291	337	403	311	288
<b>Nickel</b>						
Unwrought	tonnes	18 639	28 994	30 322	31 742	27 358
Unwrought alloys	tonnes	4 530	6 025	6 711	7 324	7 629
Scrap	tonnes	19 361	17 405	33 614	20 994	15 772
Perlite	tonnes	(d) 1 059	(d) 1 116	(d) 1 228	(d) 1 459	935
Crude petroleum	tonnes	41 591 305	34 304 184	33 679 090	35 581 067	37 109 307
Natural gas (e)	tonnes	14 461 473	15 239 637	11 325 170	8 562 644	9 969 015
<b>Platinum metals</b>						
Platinum	kilograms	24 464	37 836	55 114	42 712	74 068
Palladium	kilograms	42 864	50 917	55 864	55 322	60 671
Other platinum metals	kilograms	23 021	17 319	18 945	17 843	20 158
Waste and scrap	kilograms	527 862	287 198	1 066 729	1 193 612	3 815 056
<b>Potash</b>						
Sulphate	tonnes	71	108	118	428	469
Chloride (a)	tonnes	* 339 000	* 429 000	* 440 000	* 504 000	* 568 000
Other potassic fertilisers	tonnes	420	5 283	15 732	29 558	53 838
<b>Rare earths</b>						
Metals	tonnes	46	272	54	65	18
Cerium compounds	tonnes	182	149	273	48	24
Other rare earth compounds	tonnes	614	347	214	220	275
Ferro-cerium and other pyrophoric alloys	tonnes	37	48	79	40	152
Salt	tonnes	450 246	489 633	396 155	497 670	772 971
Sillimanite minerals	tonnes	1 378	1 761	1 141	1 459	1 065
<b>Silver</b>						
Ores and concentrates	kilograms	2 035	206	—	2 174	1 584
Metal	kilograms	2 579 909	3 937 294	3 197 152	4 219 571	3 516 844
Waste and scrap	kilograms	5 160 290	11 649 846	19 737 958	17 177 345	11 220 895
<b>Sulphur and pyrites</b>						
Sulphur, crude	tonnes	41 491	101 964	37 239	27 018	6 154
Sulphur, refined	tonnes	1 198	3 686	14 609	7 560	24 766
Sulphur, sublimed and precipitated	tonnes	1 349	2 151	21 385	7 359	31 088
Talc	tonnes	3 074	3 171	5 026	4 681	3 570
<b>Tantalum and niobium</b>						
Tantalum	tonnes	191	97	336	43	61
Niobium (f)	tonnes	45	72	29	142	43
<b>Tin</b>						
Concentrates	tonnes	163	58	241	86	45
Unwrought	tonnes	1 856	1 797	2 092	1 726	332
Unwrought alloys	tonnes	389	545	246	319	293
Scrap	tonnes	13 115	4 414	3 435	1 526	636
<b>Titanium</b>						
Unwrought	tonnes	3 683	1 263	709	1 475	1 362
Metal	tonnes	12 060	11 926	11 541	11 493	11 911
Wrought	tonnes	4 197	4 907	5 628	6 122	6 316
Oxides	tonnes	208 518	223 190	142 135	169 548	191 395

## United Kingdom

## Exports continued

Commodity	Units	2010	2011	2012	2013	2014
Tungsten						
Ores and concentrates	tonnes	29	35	102	67	558
Metal	tonnes	1 650	2 135	1 674	2 448	4 580
Carbide	tonnes	41	597	463	400	232
Vanadium						
Pentoxide	tonnes	694	6	0	0	—
Metal	tonnes	23	...	...	...	...
Zinc						
Ores and concentrates	tonnes	8 405	9 714	5 561	4 720	7 515
Unwrought	tonnes	3 580	2 724	1 823	2 138	2 930
Unwrought alloys	tonnes	14 561	12 737	13 580	11 251	17 173
Scrap	tonnes	14 903	12 545	9 897	4 375	4 736
Zirconium						
Concentrates	tonnes	1 405	1 661	818	1 037	1 261
Metal	tonnes	90	102	213	66	60

## Note(s)

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

(b) Mainly barites with some witherite

(c) Including burnt pyrites

(d) Figure also includes vermiculite and chlorites.

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

(f) Including rhenium

## Imports

Commodity	Units	2010	2011	2012	2013	2014
Primary aggregates	tonnes	2 239 950	2 062 760	1 792 148	923 566	931 278
Aluminium and bauxite						
Bauxite	tonnes	41 650	41 497	33 925	41 256	34 299
Alumina	tonnes	229 158	110 265	56 724	50 376	69 337
Alumina hydrate	tonnes	87 278	90 065	72 468	80 674	81 787
Unwrought	tonnes	138 975	201 428	144 629	144 616	191 242
Unwrought alloys	tonnes	62 686	62 784	64 561	70 720	62 549
Scrap	tonnes	126 584	109 122	106 654	113 461	168 299
Antimony						
Metal	tonnes	68	120	257	280	375
Oxide	tonnes	2 607	2 466	1 712	1 688	1 916
Arsenic						
Metallic arsenic	tonnes	7	5	15	11	7
Asbestos						
Unmanufactured	tonnes	—	—	0	—	323
Barytes						
Barium minerals (a)	tonnes	89 474	99 872	88 042	102 274	75 984
Bentonite	tonnes	141 849	200 332	183 343	173 094	151 570
Bismuth						
Metal	tonnes	366	411	481	441	321
Bromine	kilograms	5 787 829	9 485 963	7 817 484	6 833 649	5 932 000
Cadmium						
Metal	tonnes	470	542	229	304	346
Oxide	tonnes	309	281	169	182	241
Cement						
Cement clinkers	tonnes	201 308	208 595	206 086	290 071	981 457
Portland cement	tonnes	1 759 841	1 746 862	1 429 848	1 776 713	2 314 549
Other cement	tonnes	92 031	100 453	31 045	32 498	39 732
Chromium						
Ores and concentrates	tonnes	7 084	10 572	9 124	10 033	8 111
Metal	tonnes	3 007	2 346	1 663	1 751	1 829
Coal						
Anthracite	tonnes	187 246	193 474	29 186	23 059	111 197
Other coal	tonnes	23 227 529	31 627 894	42 069 614	44 867 788	38 420 305
Briquettes	tonnes	11 169	21 142	15 004	14 954	14 733



## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Cobalt</b>						
Ore	tonnes	143	124	125	137	151
Metal	tonnes	5 963	6 093	6 197	5 215	4 560
Oxides	tonnes	198	256	164	180	160
<b>Copper</b>						
Unwrought, unrefined	tonnes	2 039	1 267	147	409	754
Unwrought, refined	tonnes	40 708	34 627	38 674	34 723	19 339
Unwrought alloys	tonnes	5 688	5 498	5 957	12 098	4 815
Scrap	tonnes	27 495	29 010	27 214	25 055	28 243
<b>Diamond</b>						
Unsorted	Carats	8 703 907	8 484 526	9 238 531	12 754 564	14 833 453
Gem, rough	Carats	40 559 260	38 472 604	33 227 748	29 495 262	823 336
Gem, cut	Carats	761 455	18 292 931	7 009 031	1 494 267	5 254 159
Industrial	Carats	7 299 364	10 236 376	7 747 613	6 399 457	4 270 299
Dust	Carats	111 136 020	32 411 894	26 886 717	25 157 153	25 481 253
Diatomite (b)	tonnes	18 649	20 042	19 752	19 713	25 542
Feldspar	tonnes	17 584	16 750	21 610	24 568	19 154
Fluorspar	tonnes	1 294	45 327	19 739	(c)* 15 600	(c)* 12 100
<b>Gold</b>						
Metal	kilograms	800 602	1 012 882	1 052 573	334 032	496 597
Waste and scrap	kilograms	65 833	71 449	164 833	101 612	72 150
Graphite	tonnes	6 989	6 869	4 114	4 951	5 277
<b>Gypsum</b>						
Crude	tonnes	216 605	539 327	490 661	376 972	516 377
Calcined	tonnes	54 209	46 526	47 545	33 620	41 106
Iodine	kilograms	1 253 806	1 426 239	1 573 126	1 135 699	1 129 242
Iron ore	tonnes	10 597 085	(d) 9 175 852	(d) 10 062 323	(d) 14 137 160	(d) 14 469 169
<b>Iron, steel and ferro-alloys</b>						
Pig iron	tonnes	41 959	69 095	55 845	38 057	52 780
Sponge and powder	tonnes	97 745	147 870	176 638	33 518	9 590
Ferro-alloys	tonnes	208 817	225 819	212 787	216 722	235 941
Ferro-chrome	tonnes	58 398	70 191	65 219	48 587	63 275
Ferro-silico-chrome	tonnes	9	362	723	163	307
Ferro-silico-magnesium	tonnes	931	1 328	1 360	1 211	948
Ferro-manganese	tonnes	46 985	39 159	47 706	59 517	54 814
Ferro-silico-manganese	tonnes	49 280	51 928	36 661	43 823	47 122
Ferro-molybdenum	tonnes	322	573	458	259	303
Ferro-nickel	tonnes	6 284	13 888	17 916	13 439	22 480
Ferro-niobium	tonnes	859	395	250	987	1 029
Ferro-phosphorus	tonnes	836	1 134	474	810	1 088
Ferro-silicon	tonnes	43 703	45 918	39 351	42 966	43 209
Ferro-titanium and ferro-silico-titanium	tonnes	274	187	902	687	805
Ferro-tungsten and ferro-silico-tungsten	tonnes	48	44	34	30	47
Ferro-vanadium	tonnes	340	368	246	339	450
Other ferro-alloys	tonnes	595	388	1 520	3 904	158
Silicon metal	tonnes	99 651	101 005	97 454	97 524	111 125
Ingots, blooms, billets	tonnes	714 541	1 185 242	835 691	443 657	340 628
Scrap	tonnes	270 986	423 744	284 986	302 580	351 436
Kaolin	tonnes	95 865	102 396	88 505	85 534	92 426
<b>Lead</b>						
Unwrought	tonnes	166 830	147 579	189 605	171 169	130 199
Scrap	tonnes	8 858	4 792	3 317	4 169	7 236
<b>Lithium</b>						
Oxides	tonnes	218	215	119	281	384
Carbonate	tonnes	427	376	344	364	434
<b>Magnesite and magnesia</b>						
Magnesite	tonnes	8 640	7 903	5 059	5 015	5 258
Magnesia	tonnes	49 076	52 263	70 330	69 822	65 730
<b>Manganese</b>						
Ores and concentrates (e)	tonnes	1 517	1 656	1 597	2 168	3 232
Metal	tonnes	6 619	5 444	3 721	3 796	3 629
Mercury	kilograms	22 065	425	21 138	41 836	4 259
<b>Mica</b>						
Unmanufactured	tonnes	43	243	407	131	160
Ground	tonnes	7 341	7 926	9 203	7 307	7 891
Waste	tonnes	902	0	0	24	—

## United Kingdom

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
<b>Molybdenum</b>						
Ores and concentrates	tonnes	12 581	15 844	16 041	14 396	16 629
Metal	tonnes	1 099	1 415	1 487	1 271	1 649
Oxides	tonnes	1 638	2 316	1 971	2 101	2 723
Nepheline-syenite	tonnes	39 092	35 573	30 744	36 080	33 646
<b>Nickel</b>						
Mattes, sinters etc	tonnes	50 263	58 519	57 108	63 129	59 194
Unwrought	tonnes	14 200	12 707	11 521	8 130	9 031
Unwrought alloys	tonnes	3 310	4 644	4 771	4 309	3 771
Scrap	tonnes	8 154	6 741	9 237	9 887	11 000
Perlite	tonnes	(f) 58 456	(f) 98 437	(f) 66 298	(f) 59 424	77 419
Crude petroleum	tonnes	50 447 008	53 647 056	56 471 508	48 380 730	46 831 399
Natural gas (g)	tonnes	50 244 561	50 045 076	46 191 572	45 144 017	39 999 792
<b>Phosphate rock</b>						
Calcium phosphates	tonnes	68 902	86 333	90 653	89 196	90 439
Phosphate rock	tonnes	9 873	15 885	15 314	3 186	3 515
<b>Platinum metals</b>						
Platinum	kilograms	58 659	46 092	54 073	39 973	51 736
Palladium	kilograms	73 184	42 167	59 803	49 348	34 191
Other platinum metals	kilograms	9 487	7 768	4 374	6 953	5 339
Waste and scrap	kilograms	819 769	1 556 736	2 163 943	1 186 431	838 025
<b>Potash</b>						
Sulphate	tonnes	15 766	13 232	10 795	10 905	16 513
Chloride	tonnes	270 096	153 141	161 388	149 121	201 039
Other potassic fertilisers	tonnes	10 565	2 373	7 899	8 484	8 875
<b>Rare earths</b>						
Metals	tonnes	119	79	65	128	127
Cerium compounds	tonnes	1 119	1 713	485	633	603
Other rare earth compounds	tonnes	322	629	518	654	591
Ferro-cerium and other pyrophoric alloys	tonnes	150	79	14	50	28
Salt	tonnes	1 288 253	1 814 865	418 028	738 670	356 289
<b>Sillimanite minerals</b>						
Sillimanite minerals	tonnes	7 419	12 485	10 562	6 058	6 814
Mullite	tonnes	8 276	3 491	4 588	3 746	7 306
<b>Silver</b>						
Ores and concentrates	kilograms	9 737	1 209	6 287	72 454	394 649
Metal	kilograms	3 278 015	3 686 011	8 525 994	6 097 865	4 740 438
Waste and scrap	kilograms	4 137 096	13 713 610	5 946 307	6 668 845	5 107 834
<b>Sulphur and pyrites</b>						
Pyrites	tonnes	2 581	1 734	168	435	962
Sulphur, crude	tonnes	274	590	1 125	1 374	4 439
Sulphur, refined	tonnes	10 201	10 391	8 670	8 485	7 885
Sulphur, sublimed and precipitated	tonnes	767	691	698	946	6 647
Talc	tonnes	50 309	53 339	57 751	53 099	63 815
<b>Tantalum and niobium</b>						
Tantalum	tonnes	284	176	144	203	184
Niobium (h)	tonnes	104	176	130	62	60
<b>Tin</b>						
Unwrought	tonnes	4 327	4 186	3 850	3 484	4 318
Unwrought alloys	tonnes	365	396	1 113	4 049	5 750
Scrap	tonnes	196	121	147	69	7
<b>Titanium</b>						
Titanium minerals	tonnes	90 622	32 127	117 860	104 134	210 722
Metal	tonnes	20 681	69 844	33 943	27 099	30 278
Oxides	tonnes	59 460	62 311	63 058	75 316	67 143
<b>Tungsten</b>						
Metal	tonnes	1 676	1 999	1 888	1 906	1 958
Carbide	tonnes	1 111	3 622	1 245	878	1 740
<b>Vanadium</b>						
Metal	tonnes	197	376	261	199	168
<b>Zinc</b>						
Unwrought	tonnes	97 066	85 516	77 847	98 448	113 410
Unwrought alloys	tonnes	2 973	9 306	8 917	8 469	5 177
Scrap	tonnes	447	339	412	533	1 412

## Imports continued

Commodity	Units	2010	2011	2012	2013	2014
Zirconium						
Concentrates (i)	tonnes	8 450	14 709	8 928	6 879	7 974
Metal	tonnes	411	616	482	513	391

## Note(s)

- (a) Mainly barites with some witherite
- (b) Officially recorded under the heading 'Siliceous fossil meals and similar siliceous earths'. Excludes flux calcined diatomite
- (c) BGS estimates, based on known exports from certain countries
- (d) Including burnt pyrites
- (e) Including manganiferous iron ore
- (f) Figure also includes vermiculite and chlorites
- (g) Tonnes of oil equivalent. Converted from GWh to 1 tonne of oil equivalent. Source: Department of Energy and Climate Change
- (h) Including rhenium
- (i) Mainly zircon

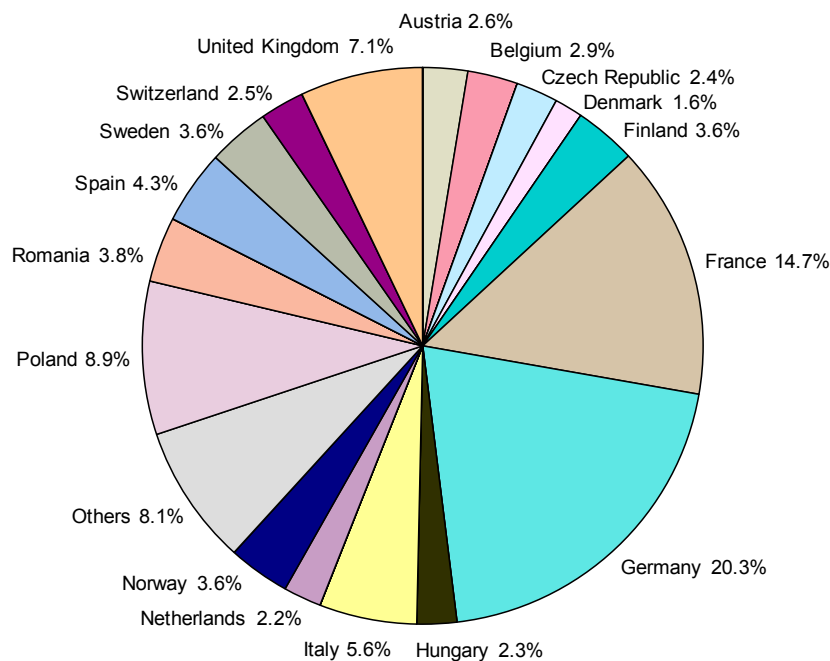


# **STATISTICAL INFORMATION BY COMMODITY**

## 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.

### EU36 Production of aggregates 2014



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

tonnes

Country	2010	2011	2012	2013	2014
<b>Austria</b>					
Sand and gravel	(a) 30 182 855	(a) 35 507 353	(a) 31 285 739	(a) 30 123 970	30 276 160
Crushed rock	(a) 24 399 380	(a) 26 866 150	(a) 26 348 996	(a) 25 973 740	26 946 973
<b>Belgium</b>					
Sand and gravel	* 22 000 000	* 23 000 000	* 21 000 000	* 21 000 000	* 19 000 000
Crushed rock	* 44 000 000	* 49 000 000	* 46 000 000	* 46 000 000	* 45 000 000
<b>Bulgaria</b>					
Sand and gravel	5 199 000	10 054 205	9 293 819	8 433 198	9 384 908
Crushed rock	16 876 900	17 979 678	18 281 353	18 963 207	21 786 053
<b>Croatia</b>					
Sand and gravel	3 646 572	5 012 106	4 345 920	3 779 919	3 496 693
<b>Cyprus</b>					
Crushed rock	12 981 444	11 816 397	7 308 056	4 561 152	4 039 087
<b>Czech Republic</b>					
Sand and gravel	19 327 000	21 424 000	18 785 000	17 363 000	17 668 000
Crushed rock	37 260 000	36 717 000	32 535 000	33 004 000	35 972 000
<b>Denmark</b>					
Sand and gravel	33 978 000	42 878 000	39 332 000	* 38 000 000	35 761 666
Crushed rock	240 000	337 000	293 000	243 000	223 000

Production continued

tonnes

Country	2010	2011	2012	2013	2014
Estonia					
Sand and gravel	3 469 220	3 568 680	3 954 600	5 201 380	5 078 160
Crushed rock	5 849 600	5 919 500	6 170 200	6 463 100	5 909 000
Finland					
Sand and gravel	* 36 000 000	* 36 000 000	* 34 000 000	* 34 000 000	* 32 000 000
Crushed rock	* 48 000 000	* 53 000 000	* 54 000 000	* 49 000 000	* 47 000 000
France					
Sand and gravel	141 290 000	148 680 000	138 280 000	135 543 000	* 127 000 000
Crushed rock	201 860 000	204 980 000	196 600 000	205 638 000	* 199 000 000
Germany					
Sand and gravel	239 000 000	252 000 000	235 300 000	228 000 000	238 000 000
Crushed rock	208 000 000	229 000 000	211 000 000	207 000 000	211 000 000
Greece	* 41 000 000	* 33 000 000	* 30 000 000	* 22 000 000	* 19 000 000
Hungary					
Sand and gravel	25 059 000	23 361 598	* 22 250 000	* 27 252 746	* 42 445 000
Crushed rock	11 390 100	9 128 819	* 9 000 000	* 7 483 894	* 8 477 000
Iceland					
Sand and gravel	201 280	221 920	232 112	291 384	* 291 000
Ireland, Republic of					
Sand and gravel	* 10 000 000	* 7 000 000	* 7 000 000	* 7 000 000	7 000 000
Crushed rock	* 40 000 000	* 25 000 000	* 22 000 000	* 22 000 000	22 000 000
Italy					
Sand and gravel (a)	150 996 352	131 770 340	105 221 496	70 081 328	73 690 871
Crushed rock	(a) 80 336 696	86 547 652	75 406 269	49 075 806	50 926 292
Latvia					
Sand and gravel	6 016 126	7 855 125	8 358 839	7 297 980	12 361 256
Crushed rock	1 375 197	2 050 976	2 072 775	2 664 580	2 229 552
Lithuania					
Sand and gravel	5 655 401	5 776 850	5 081 166	6 930 916	7 164 096
Crushed rock	3 281 330	4 456 089	3 241 831	3 801 100	4 084 594
Malta					
Crushed rock	(b) 1 753 096	(b) 1 739 037	(b) 1 707 653	1 828 716	1 763 865
Montenegro					
Sand and gravel	255 678	133 947	201 896	213 002	289 469
Crushed rock	265 066	167 405	112 630	143 179	137 299
Netherlands					
Sand and gravel	55 439 000	60 795 000	49 900 000	48 974 000	* 48 500 000
Norway					
Sand and gravel	13 011 000	13 215 000	14 262 000	13 984 000	14 111 000
Crushed rock	54 134 000	63 855 000	67 670 000	66 259 000	64 828 000
Poland					
Sand and gravel (c)	* 157 236 000	* 176 000 000	* 145 000 000	* 141 000 000	* 136 000 000
Crushed rock	62 886 200	88 696 900	64 859 600	57 945 100	61 117 900
Portugal					
Sand and gravel	8 569 474	7 658 205	6 093 188	5 488 141	5 215 900
Crushed rock	50 628 649	48 737 535	32 966 351	21 577 096	24 051 109
Romania					
Sand and gravel	22 085 231	25 319 433	21 068 344	50 829 386	51 812 555
Crushed rock	3 774 309	6 189 078	5 593 429	36 888 195	32 061 735
Slovakia					
Sand and gravel	6 931 873	6 020 641	3 794 873	3 953 525	3 863 467
Crushed rock	14 909 400	13 834 800	10 157 400	8 526 598	10 188 851
Slovenia					
Sand and gravel	2 422 771	1 899 770	1 707 455	2 143 013	2 799 006
Crushed rock	12 072 532	9 626 791	7 557 431	7 067 895	8 123 587
Spain					
Sand and gravel	73 765 882	60 603 982	41 834 967	* 33 300 000	30 000 000
Crushed rock	180 105 140	143 579 886	96 056 496	* 67 800 000	65 000 000
Sweden					
Sand and gravel	* 17 000 000	* 17 000 000	13 809 028	11 399 554	10 970 490
Crushed rock	* 57 000 000	* 58 000 000	71 839 600	66 621 935	68 034 725
Switzerland					
Sand and gravel	* 40 000 000	51 940 000	49 780 000	49 480 000	53 940 000
Crushed rock	* 5 000 000	2 432 977	2 328 758	2 445 464	2 401 627

## Aggregates

### Production continued

tonnes

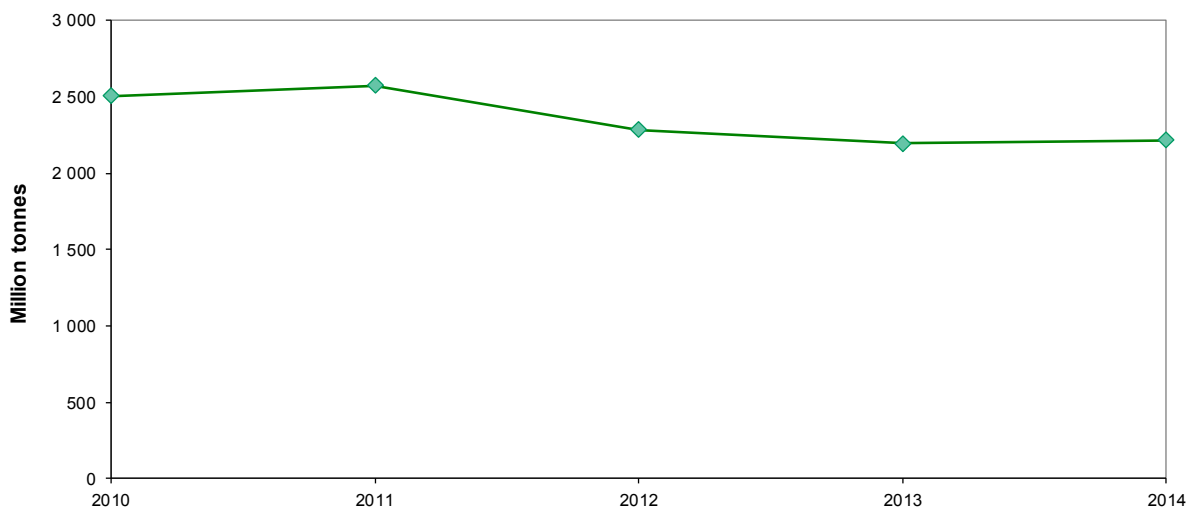
Country	2010	2011	2012	2013	2014
United Kingdom					
Sand and gravel	61 700 000	63 100 000	56 600 000	58 000 000	61 100 000
Crushed rock (d)	94 203 000	102 800 000	94 800 000	94 300 000	100 000 000
<b>EU36 total</b>	<b>2 504 000 000</b>	<b>2 573 000 000</b>	<b>2 284 000 000</b>	<b>2 194 000 000</b>	<b>2 216 000 000</b>

### Notes

- (1) So far as possible, these production statistics include construction sand; gravel, pebbles, shingle and flint; crushed stone used for concrete aggregates, roadstone and other construction uses; granules, chippings and powders. 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 EU36 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 gravel
- (c) Includes an estimate for small producers
- (d) Includes small quantities for other purposes in Northern Ireland

**EU36 Production of aggregates 2010 - 14**



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

tonnes

Country	2010	2011	2012	2013	2014
Albania	887	8 321	24 363	2 517	1 724
Austria	2 828 621	2 646 753	2 387 082	2 659 189	2 874 392
Belgium	12 427 043	13 083 592	12 886 680	12 158 112	13 157 456
Bulgaria	262 166	325 857	513 135	377 613	392 669
Croatia	1 858 348	992 712	586 991	556 143	821 856
Cyprus	—	2	78	67	2
Czech Republic	683 786	1 010 339	645 164	701 217	874 293
Denmark	907 149	961 853	1 224 741	1 433 979	1 612 849
Estonia	810 298	745 353	689 854	625 329	636 548
Finland	1 396 025	2 020 822	953 926	712 702	772 390
France	8 142 237	7 226 413	7 769 899	8 224 326	8 385 946
Germany	25 337 558	29 162 240	25 160 776	21 825 199	22 579 753
Greece	60 851	76 495	118 173	318 563	327 344



Exports continued					tonnes
Country	2010	2011	2012	2013	2014
Hungary	1 191 521	1 137 425	1 003 456	1 122 883	1 144 496
Iceland	44 512	85 854	92 094	81 265	53 105
Ireland, Republic of	13 318	16 005	88 530	147 770	129 518
Italy	1 507 704	1 071 579	1 073 466	1 120 193	1 201 976
Latvia	101 406	59 930	19 683	49 235	76 856
Lithuania	57 255	139 291	118 463	137 961	142 719
Luxembourg	160 773	161 019	165 025	152 062	170 609
Macedonia	...	39 217	47 352	59 365	64 549
Montenegro	112 522	32 451	15 527	45 091	50 500
Netherlands	9 311 275	15 472 833	15 140 085	14 071 676	13 479 227
Norway	16 877 617	20 858 955	19 761 572	18 103 600	18 944 242
Poland	1 031 013	1 058 307	962 169	1 565 938	1 989 610
Portugal	67 505	120 946	71 399	353 360	309 526
Romania	360 161	255 970	438 328	889 084	1 167 093
Serbia	127 309	497 637	485 266	211 015	263 545
Slovakia (a)	* 598 000	* 615 008	* 525 000	* 534 000	* 615 000
Slovenia	488 256	426 686	406 872	562 005	660 277
Spain	1 105 524	1 249 318	726 145	953 044	1 293 021
Sweden	2 248 515	1 624 154	1 602 379	1 234 782	1 079 882
Switzerland	193 312	188 183	274 029	215 232	222 546
Turkey	955 765	1 237 704	1 299 391	1 534 475	1 160 902
United Kingdom	10 992 431	10 800 338	8 823 773	9 223 542	8 700 345

## Notes

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

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

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

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

Imports of primary aggregates (sand and gravel and crushed rock)					tonnes
Country	2010	2011	2012	2013	2014
Albania	15 253	20 645	26 226	41 918	37 907
Austria	2 284 169	2 184 095	2 521 253	2 420 461	3 404 903
Belgium	22 484 726	23 911 051	22 934 219	20 869 873	20 335 594
Bulgaria	14 843	15 075	18 661	50 149	88 713
Croatia	926 574	1 366 197	1 689 891	1 446 658	978 064
Cyprus	2 648	1 517	16 792	1 432	1 716
Czech Republic	353 419	357 455	352 553	405 141	740 057
Denmark	2 777 604	3 531 658	3 934 656	3 688 045	3 777 573
Estonia	1 395 122	1 302 589	1 215 348	1 308 292	1 197 158
Finland	284 066	52 920	96 804	137 333	126 704
France	9 838 820	11 224 302	10 814 082	10 481 744	10 430 257
Germany	11 936 108	13 786 596	11 636 491	9 868 728	10 545 395
Greece	13 538	16 892	4 102	5 633	3 850
Hungary	473 730	369 445	515 141	1 028 054	1 331 433
Iceland	6 492	7 524	32 327	14 981	28 860
Ireland, Republic of	652 594	695 162	817 052	840 968	963 667
Italy	3 057 378	2 135 306	966 588	1 035 371	558 871
Latvia	467 414	611 872	895 335	1 212 414	1 155 283
Lithuania	849 462	1 046 066	991 388	1 678 898	2 028 733
Luxembourg	2 118 047	2 309 583	2 047 389	2 232 322	2 834 047
Macedonia	1 029	1 180	3 403	1 085	3 938
Malta	37 324	28 813	38 373	51 082	95 964
Montenegro	26 703	12 574	4 709	1 933	9 860
Netherlands	26 065 573	28 239 777	23 457 644	22 724 647	24 404 781
Norway	82 706	98 721	107 087	83 631	53 541
Poland	5 014 564	9 022 494	5 766 695	3 143 654	3 680 582
Portugal	945 814	453 721	356 411	205 991	270 800
Romania	248 484	370 249	512 538	331 523	256 239
Serbia	15 910	8 759	9 907	14 742	19 854

Aggregates

Imports continued

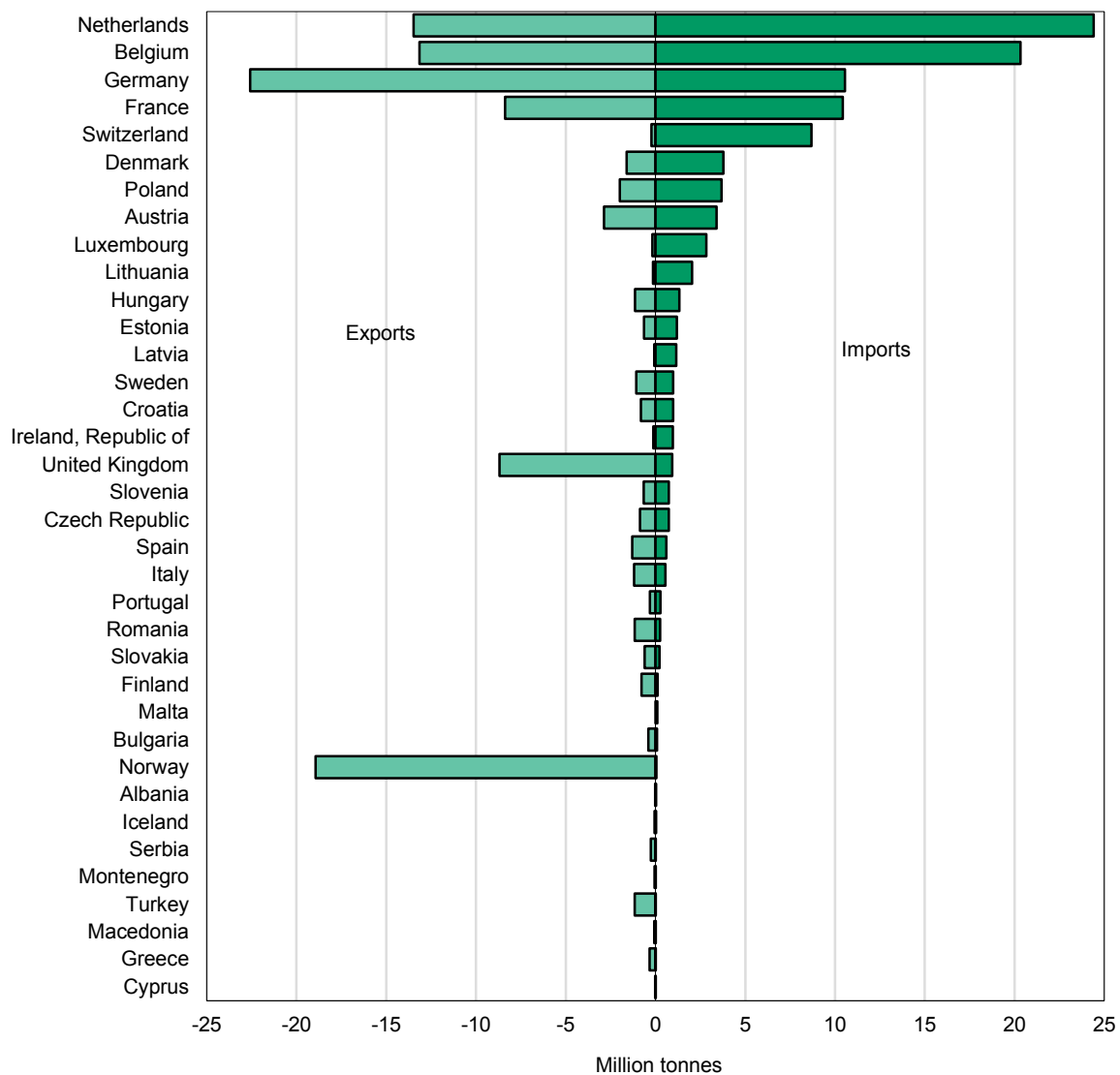
tonnes

Country	2010	2011	2012	2013	2014
Slovakia	666 380	527 259	419 992	385 376	225 339
Slovenia	771 814	486 627	461 601	531 904	741 266
Spain	1 029 946	694 299	618 871	475 414	594 772
Sweden	533 148	802 173	944 006	924 873	988 134
Switzerland	8 010 059	8 566 572	8 611 775	8 315 656	8 687 660
Turkey	9 372	3 487	7 129	10 516	5 199
United Kingdom	2 239 950	2 062 760	1 792 148	923 566	931 278

Notes

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

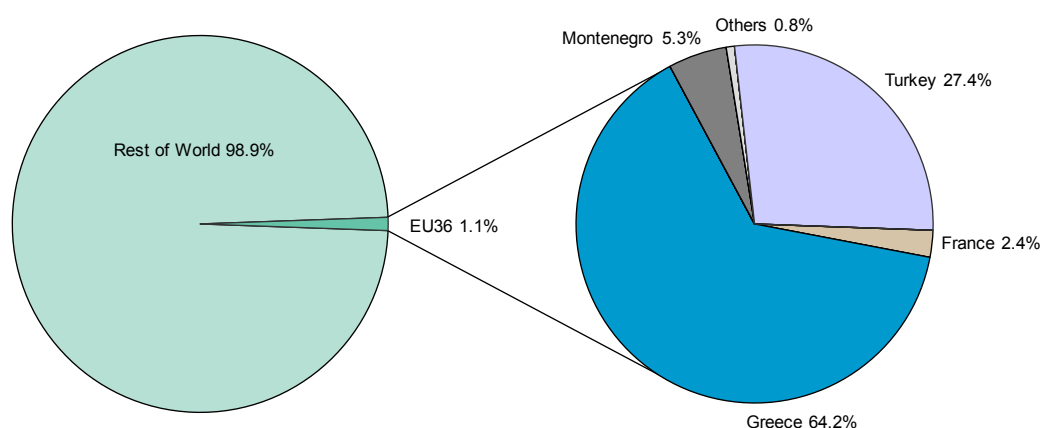
Aggregates - EU36 trade in 2014



## 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 2014, with 30 per cent of the total world output. The second largest was China (estimated to be 25 per cent), followed by Brazil (14 per cent), India (eight per cent), and Guinea (seven per cent).

**EU36 Production of bauxite 2014**



## Production of bauxite

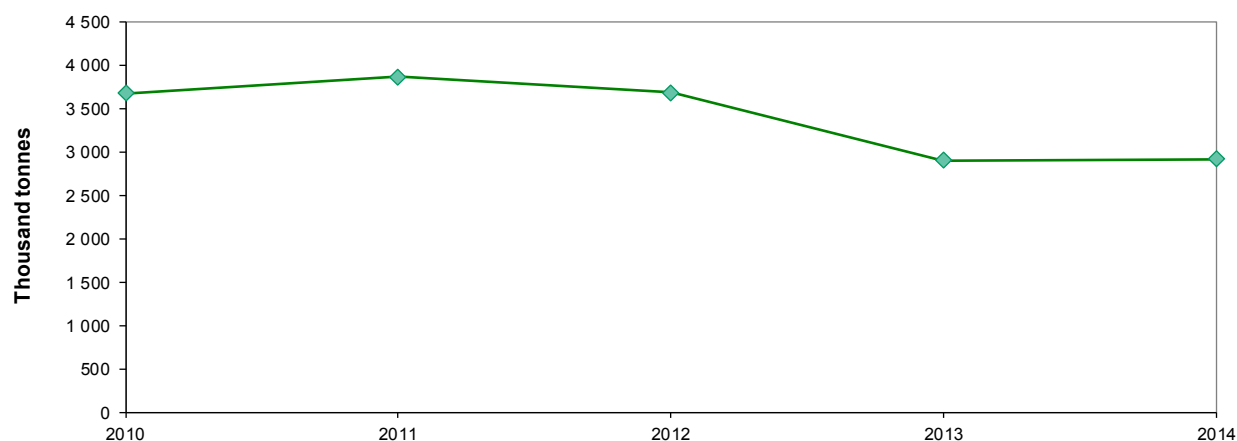
tonnes

Country	2010	2011	2012	2013	2014
Croatia	2 300	4 800	5 690	8 220	* 8 000
France	93 100	80 800	90 000	100 000	71 000
Greece	1 902 000	2 324 000	1 816 000	1 844 000	1 876 000
Hungary	307 000	277 800	255 000	93 700	14 000
Montenegro	61 205	158 614	—	61 154	155 153
Turkey	1 311 064	1 024 915	1 521 150	795 562	* 800 000
<b>EU36 total</b>	<b>3 677 000</b>	<b>3 871 000</b>	<b>3 688 000</b>	<b>2 903 000</b>	<b>2 924 000</b>

### Notes

(1) This table includes production of refractory bauxite

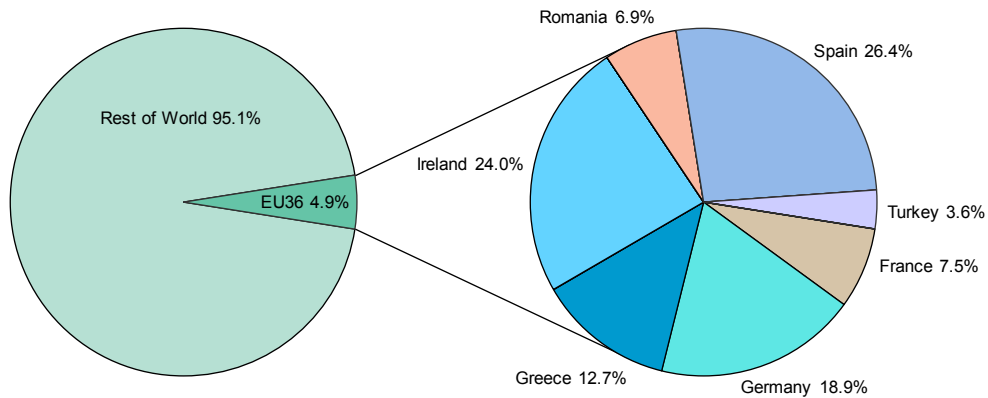
**EU36 Production of bauxite 2010 - 14**



## 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 2014, with 47 per cent of the total world output. Australia was the second largest (19 per cent) followed by Brazil (ten per cent), USA and India (with four per cent each)

**EU36 Production of alumina 2014**



### Production of alumina

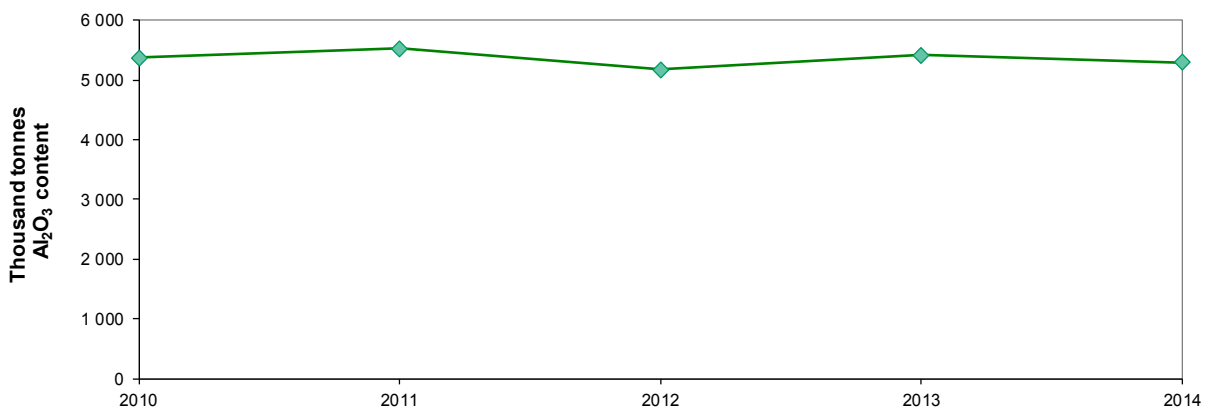
tonnes (Al<sub>2</sub>O<sub>3</sub> content)

Country	2010	2011	2012	2013	2014
France	481 000	470 000	430 000	430 000	* 400 000
Germany	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Greece	661 882	683 030	653 011	664 510	674 000
Hungary	* 139 000	* 132 000	* 111 000	* 81 000	* 1 000
Ireland, Republic of	1 211 600	1 249 300	1 250 600	1 264 689	1 270 784
Romania	414 000	484 000	414 000	391 000	363 000
Spain	* 1 300 000	* 1 300 000	* 1 100 000	* 1 400 000	* 1 400 000
Turkey	* 160 000	* 210 000	* 220 000	* 186 000	* 190 000
<b>EU36 total</b>	<b>5 367 000</b>	<b>5 528 000</b>	<b>5 179 000</b>	<b>5 417 000</b>	<b>5 299 000</b>

**Notes**

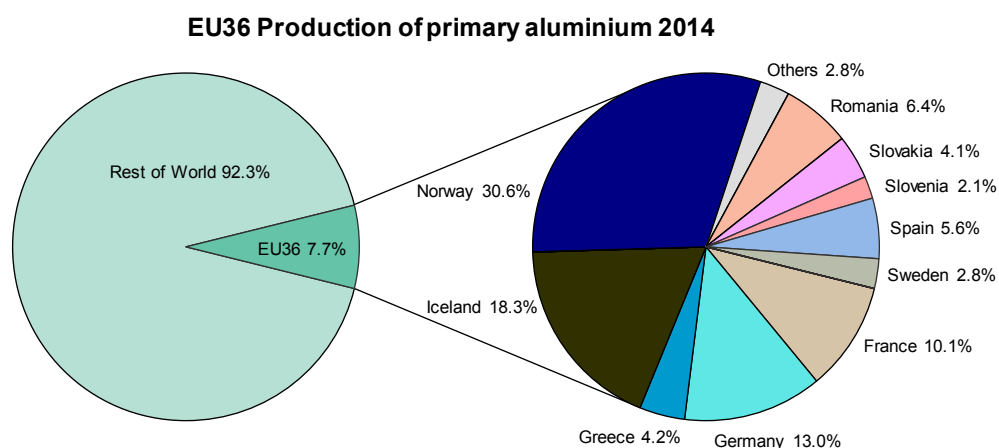
- Where possible, figures in this table show the alumina equivalent (Al<sub>2</sub>O<sub>3</sub>) of total hydrate produced, whether or not calcined
- The figures in this table represent alumina produced from bauxite. Alumina-rich materials can also be derived from salt slags formed during the production of secondary aluminium

**EU36 Production of alumina 2010 - 14**



## 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 2014, with 52 per cent of the total world output. The second largest was Russia (seven per cent), followed by Canada (five per cent), United Arab Emirates (four per cent) and the USA (three per cent).



## Production of primary aluminium

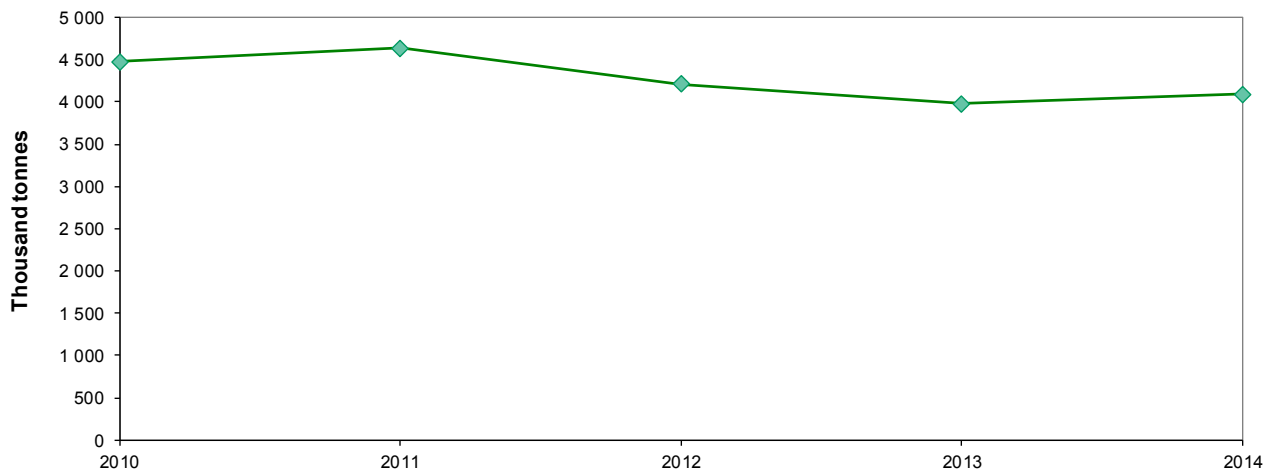
tonnes

Country	2010	2011	2012	2013	2014
Croatia	666	600	—	—	—
France	356 000	334 000	349 000	343 000	415 000
Germany	402 480	432 472	410 413	492 368	530 700
Greece	137 000	165 150	165 050	169 480	173 260
Iceland	825 803	780 853	802 827	736 429	748 949
Italy	129 500	141 900	99 600	—	—
Montenegro	82 043	92 838	74 813	47 951	42 767
Netherlands	217 000	* 200 000	86 300	81 000	800
Norway	1 090 000	1 201 000	1 110 900	1 154 900	1 250 000
Romania	241 000	261 000	249 000	250 000	263 000
Slovakia	163 000	162 840	160 662	163 000	168 000
Slovenia	40 177	75 300	83 300	84 035	* 84 000
Spain	456 500	408 400	386 395	* 250 000	* 230 000
Sweden	93 000	111 000	129 000	131 000	113 000
Turkey	54 100	56 400	43 700	32 200	30 400
United Kingdom	186 000	213 000	60 000	45 000	41 000
<b>EU36 total</b>	<b>4 474 000</b>	<b>4 637 000</b>	<b>4 211 000</b>	<b>3 980 000</b>	<b>4 091 000</b>

### Notes

- (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

## EU36 Production of primary aluminium 2010 - 14



## Exports of bauxite, alumina and aluminium

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Unwrought (a)	2 805	3 309	1 940	4 124	(b)* 6 000
Scrap	5 290	4 670	6 260	5 854	1 933
Austria					
Bauxite	1	897	11 944	21 832	83
Alumina	14 322	34 555	32 486	15 897	18 794
Alumina hydrate	32	50	40	30	1 870
Unwrought	3 236	2 344	2 465	2 299	1 485
Unwrought alloys	151 559	209 748	211 491	276 249	263 678
Scrap	122 057	105 138	128 589	151 419	173 159
Belgium					
Bauxite	48 683	37 533	36 651	34 078	48 647
Alumina	7 516	21 284	5 218	28 210	9 675
Unwrought	257 888	150 542	95 405	166 743	169 124
Unwrought alloys	14 204	30 285	61 019	74 265	67 028
Scrap	274 819	321 484	311 716	286 908	285 743
Bulgaria					
Unwrought alloys	6 798	7 555	5 866	6 440	7 668
Scrap	31 728	26 302	25 579	22 765	23 585
Croatia					
Unwrought	2 338	2 674	2 161	2 553	2 472
Unwrought alloys	1 017	2 055	2 114	2 516	2 384
Scrap	22 346	23 009	23 867	19 095	20 454
Cyprus					
Scrap	6 896	6 310	7 688	5 595	5 738
Czech Republic					
Alumina	3 861	3 659	4 065	5 384	6 739
Unwrought (a)	51 307	53 600	61 017	64 991	74 559
Scrap	71 467	89 690	85 939	55 875	69 547
Denmark					
Bauxite	3 279	6 769	9 432	4 600	386
Alumina	4 661	4 958	5 879	4 709	6 863
Unwrought alloys	9 515	7 382	7 440	7 896	6 579
Scrap	73 402	67 000	73 392	73 142	82 766
Estonia					
Bauxite	...	29 492	23 317	...	...
Unwrought (a)	4 132	52	1 220	1 090	1 014
Scrap	65 948	63 880	11 342	10 523	10 323
Finland					
Unwrought alloys	15 346	11 289	14 185	15 200	15 107
Scrap	33 304	38 862	43 221	48 252	51 067

Exports continued					tonnes
Country	2010	2011	2012	2013	2014
France					
Bauxite	12 116	13 594	11 975	11 125	8 715
Alumina	270 769	281 634	309 291	265 798	276 387
Alumina hydrate	131 035	83 054	139 311	97 170	87 204
Unwrought	51 275	71 970	45 172	64 410	52 152
Unwrought alloys	166 807	130 384	127 551	129 161	155 837
Scrap	405 847	425 541	423 298	447 687	484 375
Germany					
Bauxite	26 178	26 306	34 814	22 966	29 271
Alumina	424 236	372 191	369 337	374 471	291 433
Alumina hydrate	551 817	485 074	455 157	463 704	456 259
Unwrought	111 815	83 675	42 580	40 775	26 554
Unwrought alloys	361 396	374 917	361 850	383 882	381 113
Scrap	823 810	947 252	968 539	935 218	1 048 565
Greece					
Bauxite	436 513	519 999	437 305	337 274	429 707
Alumina	224 607	202 986	320 795	315 348	340 471
Alumina hydrate	99 574	102 136	110 605	160 632	155 770
Unwrought	20 727	19 668	5 925	4 626	7 890
Unwrought alloys	68 924	103 326	102 092	120 261	122 464
Scrap	32 250	27 738	20 367	16 636	15 084
Hungary					
Bauxite	738	207	208	548	10 479
Alumina	112 819	107 937	99 699	78 432	60 677
Alumina hydrate	92 011	71 834	64 000	51 224	43 330
Unwrought (a)	41 719	38 819	36 491	39 897	44 072
Scrap	51 508	66 599	68 156	78 773	75 901
Iceland					
Unwrought	812 981	765 999	787 071	788 366	699 341
Scrap	10 136	6 397	3 799	3 672	6 062
Ireland, Republic of					
Alumina	1 542 563	1 794 148	1 616 065	1 867 541	1 846 540
Alumina hydrate	124 803	103 631	30 328	55 265	111 513
Unwrought alloys	2 576	3 109	2 684	3 095	3 148
Scrap	22 810	29 261	24 137	29 763	25 260
Italy					
Bauxite	66 218	46 330	93 847	169 411	88 289
Alumina	17 056	16 821	3 424	4 411	7 746
Alumina hydrate	4 346	7 023	6 448	7 809	4 263
Unwrought	49 442	25 882	30 378	23 224	28 368
Unwrought alloys	220 237	286 525	311 381	322 614	342 526
Scrap	107 131	102 696	103 518	106 916	111 224
Latvia					
Alumina	140	64 225	115 744	14 622	85
Unwrought alloys	14 493	21 793	18 481	9 196	8 870
Scrap	5 461	4 414	4 876	4 771	7 090
Lithuania					
Alumina	22	59	413	2 574	74
Unwrought alloys	7 754	7 534	6 363	4 286	3 183
Scrap	5 298	8 952	10 306	12 777	14 729
Luxembourg					
Unwrought alloys	157 473	151 330	145 882	145 487	153 502
Scrap	6 034	6 051	6 902	5 993	4 467
Macedonia					
Scrap	2 351	2 432	2 724	2 833	2 479
Malta					
Scrap	1 865	1 788	2 058	1 811	1 979
Montenegro					
Bauxite	85 623	127 268	26 354	100 291	68 378
Unwrought	(a) 76 891	108 813	75 180	(a) 48 052	(a) 42 171
Scrap	2 045	2 357	2 356	2 337	2 071

## Aluminium and Bauxite

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Netherlands					
Bauxite	26 997	12 739	19 133	68 646	83 596
Alumina	8 665	43 695	9 831	583 016	629 400
Alumina hydrate	76 244	89 612	128 448	159 168	165 198
Unwrought	424 733	390 062	371 106	381 464	626 547
Unwrought alloys	320 263	246 826	203 792	223 326	264 739
Scrap	317 038	322 834	372 917	320 523	349 012
Norway					
Alumina	156	187	228	2 715	54
Unwrought	74 941	58 478	66 997	57 855	51 221
Unwrought alloys	1 420 662	1 370 411	1 287 135	1 196 035	1 275 484
Scrap	77 216	88 312	76 950	61 112	69 737
Poland					
Bauxite	448	8 546	—	2	1
Unwrought (a)	103 803	111 421	118 356	153 672	218 895
Scrap	123 503	130 472	155 032	151 679	182 781
Portugal					
Unwrought alloys	102 856	59 056	40 526	5 593	3 526
Scrap	51 888	45 775	52 782	40 273	41 929
Romania					
Bauxite	1 513	2 318	5 274	—	329
Alumina	25 559	38 406	29 070	30 444	56 015
Unwrought	10 312	14 004	6 074	6 534	2 581
Unwrought alloys	51 556	70 697	83 687	90 163	84 876
Scrap	17 733	12 801	14 200	12 046	10 662
Serbia					
Unwrought	17 602	15 353	10 130	10 713	7 933
Scrap	13 574	22 248	20 752	16 939	15 611
Slovakia					
Unwrought	44 989	40 011	576	5 715	4 340
Unwrought alloys	111 769	118 485	80 141	164 465	153 108
Scrap	10 260	14 044	18 207	31 339	29 907
Slovenia					
Bauxite	6 665	5 738	1 576	1 713	2 813
Alumina	239 729	161 747	203 376	196 342	140 481
Unwrought alloys	78 619	95 251	94 531	104 253	104 408
Scrap	33 972	39 961	52 712	50 473	48 362
Spain					
Alumina	299 703	391 516	426 925	636 058	709 781
Alumina hydrate	126 398	186 543	282 062	227 359	245 468
Unwrought	26 693	19 248	29 433	42 539	54 538
Unwrought alloys	148 884	175 112	181 026	174 067	200 991
Scrap	66 976	51 518	90 881	94 856	80 107
Sweden					
Alumina	19 037	13 870	10 401	9 818	6 560
Unwrought (a)	190 589	183 681	188 936	172 557	175 092
Scrap	88 070	95 632	108 353	103 323	112 292
Switzerland					
Unwrought (a)	20 954	23 397	23 439	25 570	22 153
Scrap	131 819	138 643	141 836	149 337	157 396
Turkey					
Bauxite	331 458	158 232	166 744	215 732	212 747
Alumina	190 094	96	—	...	...
Alumina hydrate	2 910	21 172	—	—	—
Unwrought	42 090	4 868	—	...	...
Unwrought alloys	36 994	38 640	36 106	30 280	39 011
Scrap	14 291	12 020	9 905	13 346	19 918



Exports continued						tonnes
Country	2010	2011	2012	2013	2014	
United Kingdom						
Bauxite	3 140	5 936	2 929	4 804	4 339	
Alumina	5 879	5 114	3 590	3 247	4 116	
Alumina hydrate (b)	* 2 100	* 2 600	* 10 700	* 1 600	* 1 900	
Unwrought	43 665	49 959	9 597	8 510	6 364	
Unwrought alloys	364 612	356 170	279 263	188 996	219 143	
Scrap	443 466	440 399	445 730	402 060	452 620	

## Notes

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

(a) Including alloys

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

## Imports of bauxite, alumina and aluminium

Imports of bauxite, alumina and aluminium						tonnes
Country	2010	2011	2012	2013	2014	
Albania						
Bauxite	5 408	497	(a)* 1	...	(a)* 2	
Unwrought (b)	7 198	7 718	9 946	10 631	(a)* 6 000	
Scrap	1 268	1 234	548	1 802	(a)* 400	
Austria						
Bauxite	8 489	7 842	6 169	9 235	18 742	
Alumina	47 681	53 232	40 520	20 675	21 841	
Alumina hydrate	12 914	12 821	14 603	15 411	12 691	
Unwrought	177 751	197 795	131 764	156 583	146 896	
Unwrought alloys	239 493	280 502	314 594	235 575	242 352	
Scrap	268 845	282 707	304 272	280 710	285 564	
Belgium						
Bauxite	75 600	52 727	41 111	41 968	57 338	
Alumina	19 028	20 406	25 501	21 092	22 643	
Alumina hydrate	34 978	52 806	36 956	63 875	46 644	
Unwrought	517 946	412 600	400 947	364 106	321 243	
Unwrought alloys	193 103	218 350	159 147	168 240	147 383	
Scrap	228 517	257 366	249 187	206 775	237 259	
Bulgaria						
Alumina	2 887	1 875	3 429	3 946	3 919	
Unwrought	44 468	43 192	43 405	50 232	33 071	
Unwrought alloys	27 444	35 685	42 685	55 507	61 910	
Scrap	6 897	4 625	1 582	1 742	1 607	
Croatia						
Bauxite	85 634	66 169	67 410	73 689	93 847	
Alumina	936	1 552	889	954	2 457	
Unwrought	50 354	45 493	54 040	38 781	21 086	
Unwrought alloys	29 270	40 783	31 807	40 502	48 986	
Cyprus						
Unwrought (b)	9 225	7 104	6 458	4 768	4 136	
Czech Republic						
Bauxite	33 794	32 556	27 514	24 765	56 797	
Alumina	7 407	7 980	7 682	9 089	10 222	
Alumina hydrate	9 547	10 052	8 851	9 574	9 478	
Unwrought	76 945	84 560	77 128	71 737	58 878	
Unwrought alloys	135 648	153 819	141 484	166 166	208 080	
Scrap	61 802	86 969	103 385	81 351	74 357	
Denmark						
Bauxite	8 364	9 112	7 515	10 371	4 677	
Alumina	22 484	21 012	25 210	28 552	29 012	
Unwrought	523	742	2 730	19 795	33 056	
Unwrought alloys	78 956	85 315	75 066	34 687	24 821	
Scrap	5 175	5 891	5 267	13 785	6 419	

## Aluminium and Bauxite

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Estonia					
Unwrought (b)	3 176	2 231	2 811	902	907
Scrap	4 495	2 488	488	250	349
Finland					
Bauxite	9 294	3 036	1 328	3 168	3 504
Alumina	2 401	2 422	2 479	3 057	2 571
Alumina hydrate	29 607	25 676	22 996	26 702	34 704
Unwrought	2 008	2 070	1 596	1 691	2 091
Unwrought alloys	37 539	37 589	32 897	33 081	36 068
Scrap	15 466	15 803	14 080	14 731	14 880
France					
Bauxite	984 804	1 577 328	1 443 488	1 198 412	1 343 089
Alumina	734 935	619 175	734 773	720 649	746 090
Alumina hydrate	47 336	47 510	43 650	37 402	38 586
Unwrought	103 937	152 348	134 309	147 016	177 323
Unwrought alloys	364 962	387 038	277 335	326 472	385 126
Scrap	260 871	292 597	267 325	246 746	234 669
Germany					
Bauxite	2 005 053	2 436 413	2 777 032	2 407 688	2 623 127
Alumina	661 379	654 946	476 257	832 700	639 868
Alumina hydrate	260 488	176 692	196 301	160 162	199 031
Unwrought	799 780	768 797	732 599	759 344	870 026
Unwrought alloys	1 591 991	1 810 035	1 750 733	1 759 155	1 819 650
Scrap	479 413	535 304	575 925	560 479	655 187
Greece					
Bauxite	465 322	333 571	90 804	330 522	439 916
Unwrought	153 771	126 051	119 587	141 469	145 268
Unwrought alloys	66 134	59 931	51 875	60 864	61 029
Scrap	43 866	95 166	54 011	40 371	32 430
Hungary					
Bauxite	244 095	254 039	142 246	146 245	1 282
Alumina	22 660	36 305	42 371	51 768	59 050
Alumina hydrate	6 856	9 123	7 382	69 615	160 273
Unwrought	146 221	135 392	129 030	130 942	150 333
Unwrought alloys	165 833	190 175	181 695	187 798	166 679
Scrap	43 720	59 661	47 904	35 042	37 391
Iceland					
Alumina	1 612 188	1 539 080	1 590 521	1 646 175	1 583 285
Unwrought (b)	6 127	5 560	1 356	1 968	7 288
Ireland, Republic of					
Bauxite	4 111 457	4 215 019	4 169 784	4 434 990	4 424 292
Alumina	4 903	4 378	9 679	9 288	5 536
Italy					
Bauxite	62 666	45 146	55 504	31 679	52 264
Alumina	252 028	406 774	292 537	122 812	131 876
Alumina hydrate	198 253	205 274	180 778	199 553	196 890
Unwrought	432 393	482 850	355 557	465 484	532 070
Unwrought alloys	488 002	563 882	489 373	520 800	582 184
Scrap	372 686	461 302	444 544	448 220	510 101
Latvia					
Scrap	7 828	10 381	10 956	13 929	9 794
Lithuania					
Alumina	16 411	26 876	23 690	21 348	12 813
Scrap	2 460	6 014	3 238	3 682	2 721
Luxembourg					
Unwrought	62 504	51 627	44 826	37 496	58 344
Unwrought alloys	7 362	5 586	8 278	8 556	12 470
Scrap	128 632	121 295	161 015	168 410	133 848
Macedonia					
Unwrought (b)	2 839	2 642	2 785	2 856	3 034
Scrap	1 554	1 842	1 073	834	723
Montenegro					
Alumina	157 753	185 103	139 940	93 297	83 512

Imports continued		tonnes				
Country	2010	2011	2012	2013	2014	
<b>Netherlands</b>						
Bauxite	113 499	113 653	108 492	35 459	126 019	
Alumina	692 413	955 665	626 715	792 007	804 607	
Alumina hydrate	167 596	246 013	243 186	287 325	269 165	
Unwrought	384 724	424 915	487 639	163 027	930 866	
Unwrought alloys	462 371	537 289	464 926	444 992	463 212	
Scrap	184 066	241 081	270 014	220 965	233 610	
<b>Norway</b>						
Bauxite	8 645	459	746	485	475	
Alumina	2 144 519	2 185 976	2 191 352	2 302 823	2 260 295	
Alumina hydrate	35 379	53 224	50 386	47 789	52 105	
Unwrought	512 340	450 432	298 464	286 320	334 875	
Unwrought alloys	68 086	27 867	41 031	21 577	13 455	
Scrap	38 039	42 078	31 750	32 529	32 927	
<b>Poland</b>						
Bauxite	48 664	45 672	51 430	46 961	44 237	
Alumina	29 920	34 691	35 709	34 969	40 087	
Alumina hydrate	31 406	26 536	25 912	28 557	27 653	
Unwrought	125 567	125 147	112 325	99 308	86 261	
Unwrought alloys	192 393	232 859	245 491	254 479	333 092	
Scrap	84 622	98 484	108 168	175 534	206 825	
<b>Portugal</b>						
Alumina	14 862	8 762	8 863	9 472	9 006	
Unwrought	20 152	18 744	17 371	13 634	13 076	
Unwrought alloys	170 057	113 150	96 190	74 013	92 153	
Scrap	10 183	5 305	7 409	4 460	6 896	
<b>Romania</b>						
Bauxite	1 277 587	1 271 274	1 297 303	1 064 823	1 162 356	
Alumina	1 928	15 037	2 554	22 819	86 791	
Alumina hydrate	10 412	5 768	2 841	537	1 001	
Unwrought	2 163	3 024	2 751	10 877	13 824	
Unwrought alloys	33 711	24 287	26 311	31 608	50 854	
Scrap	83 381	62 768	66 878	92 702	83 977	
<b>Serbia</b>						
Bauxite	10 972	7 800	5 976	3 807	736	
Alumina	3 682	2 673	3 092	3 190	4 080	
Unwrought	54 512	51 717	51 578	54 127	49 263	
Unwrought alloys	13 600	15 834	14 446	17 668	19 465	
Scrap	8 404	6 870	7 209	10 334	10 053	
<b>Slovakia</b>						
Bauxite	4 233	6 136	6 087	9 087	6 772	
Alumina	270 777	232 187	261 594	320 772	321 679	
Unwrought	8 916	3 430	1 627	2 082	4 494	
Unwrought alloys	37 657	40 885	37 654	46 976	56 446	
Scrap	2 098	3 181	3 667	6 174	7 903	
<b>Slovenia</b>						
Bauxite	41 846	42 555	22 700	44 860	28 914	
Alumina	328 453	322 872	381 845	376 159	329 588	
Alumina hydrate	27 252	26 173	15 753	21 712	24 169	
Unwrought	87 848	65 523	66 209	74 611	78 438	
Unwrought alloys	65 950	71 318	66 410	84 970	82 509	
Scrap	51 159	52 860	60 468	69 046	77 241	
<b>Spain</b>						
Bauxite	3 325 099	3 080 295	3 693 740	3 510 247	3 806 558	
Alumina	31 527	61 184	28 910	31 683	31 029	
Alumina hydrate	29 317	22 917	16 162	13 491	21 749	
Unwrought	119 589	110 612	107 320	122 958	171 163	
Unwrought alloys	229 036	219 925	207 511	202 690	207 579	
Scrap	111 942	125 190	155 371	176 445	200 411	
<b>Sweden</b>						
Bauxite	6 660	10 460	12 271	13 074	15 944	
Alumina	211 393	266 978	258 634	278 411	210 340	
Alumina hydrate	95 073	77 121	64 907	66 055	68 803	
Unwrought	35 506	22 371	26 948	22 447	38 605	
Unwrought alloys	188 198	175 194	125 377	108 735	134 294	
Scrap	48 508	47 458	49 270	59 064	72 278	

Aluminium and Bauxite

Imports continued

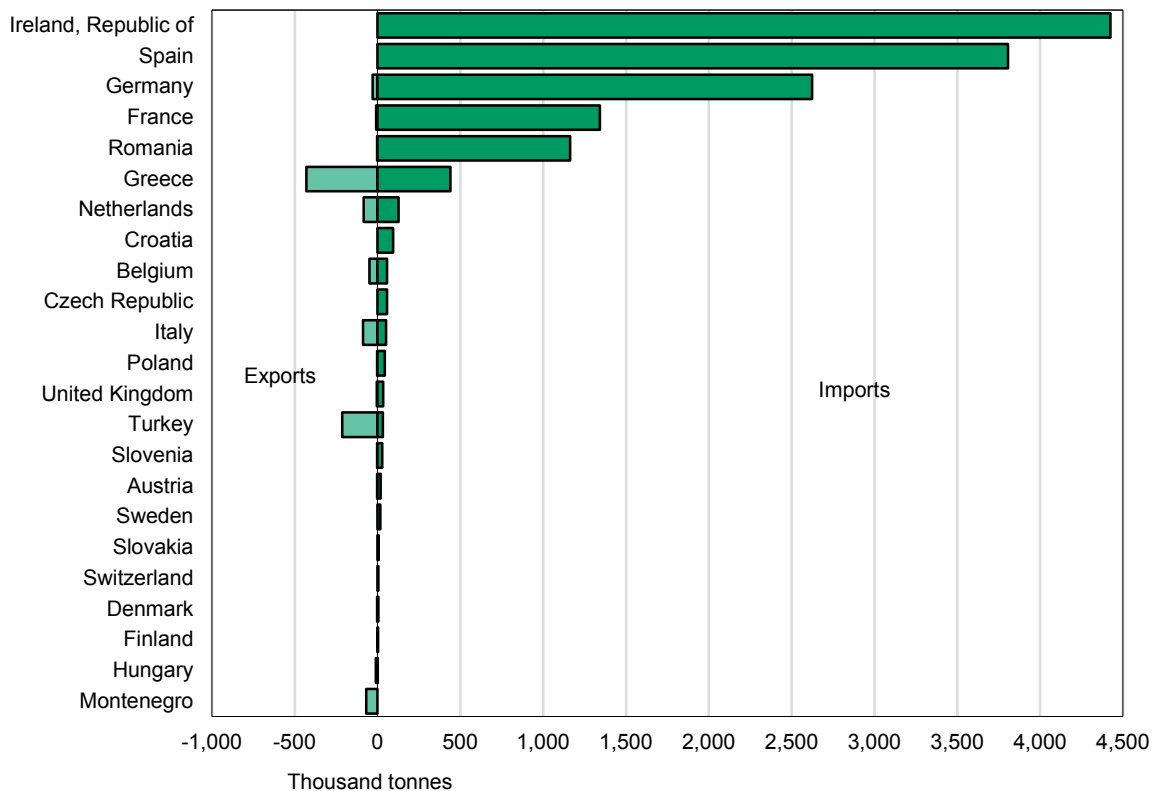
tonnes

Country	2010	2011	2012	2013	2014
<b>Switzerland</b>					
Bauxite	6 718	11 898	10 924	10 792	5 779
Alumina	10 662	9 957	8 625	8 295	9 855
Alumina hydrate	20 697	19 131	17 473	16 761	16 310
Unwrought	148 099	166 853	159 296	162 271	169 257
Unwrought alloys	84 113	70 200	59 087	60 952	82 461
Scrap	33 341	36 829	43 797	50 969	52 345
<b>Turkey</b>					
Bauxite	35 652	36 358	28 947	34 716	32 484
Alumina	15 772	15 434	14 740	19 709	21 272
Alumina hydrate	27 721	35 739	41 275	49 347	54 081
Unwrought	460 915	553 191	576 670	627 747	675 861
Unwrought alloys	281 588	332 228	356 862	362 548	418 621
Scrap	24 952	25 107	20 811	21 408	34 307
<b>United Kingdom</b>					
Bauxite	41 650	41 497	33 925	41 256	34 299
Alumina	229 158	110 265	56 724	50 376	69 337
Alumina hydrate	87 278	90 065	72 468	80 674	81 787
Unwrought	138 975	201 428	144 629	144 616	191 242
Unwrought alloys	62 686	62 784	64 561	70 720	62 549
Scrap	126 584	109 122	106 654	113 461	168 299

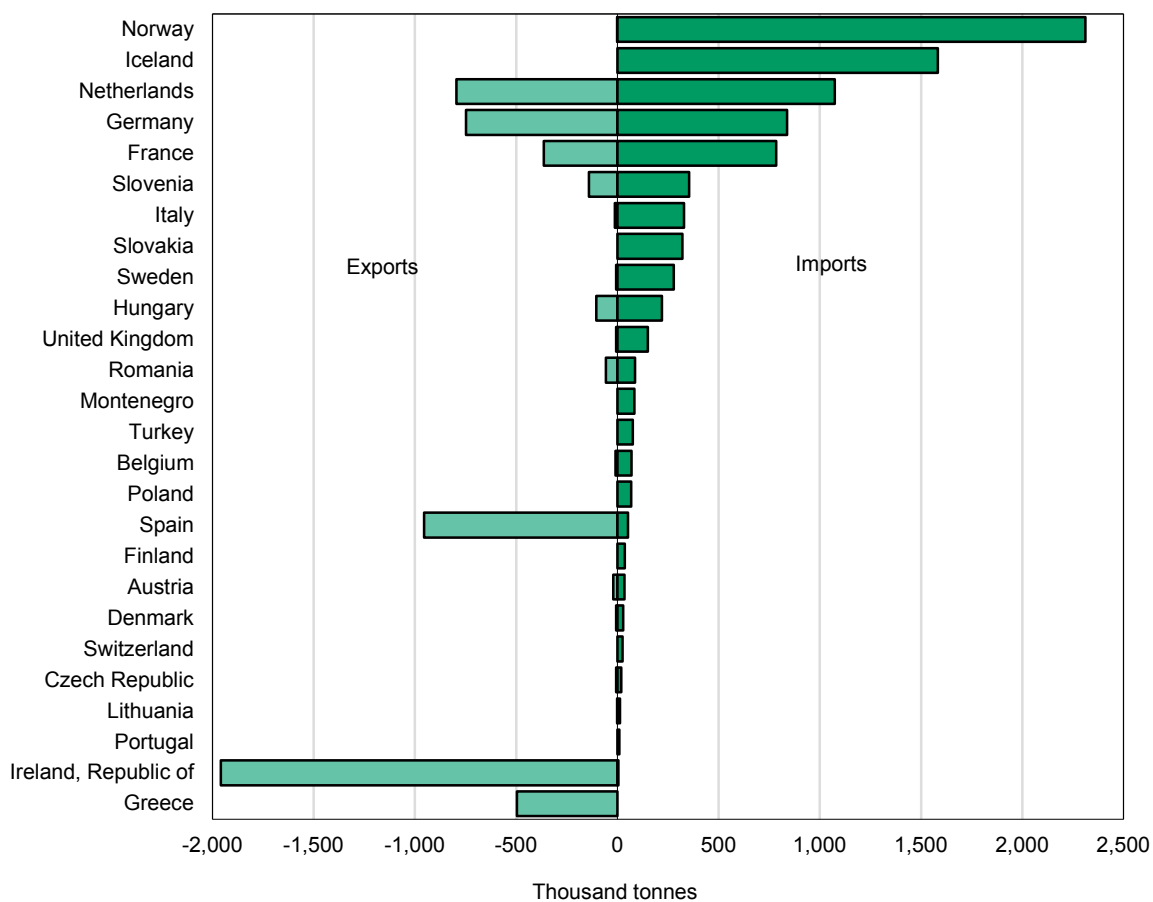
Notes

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

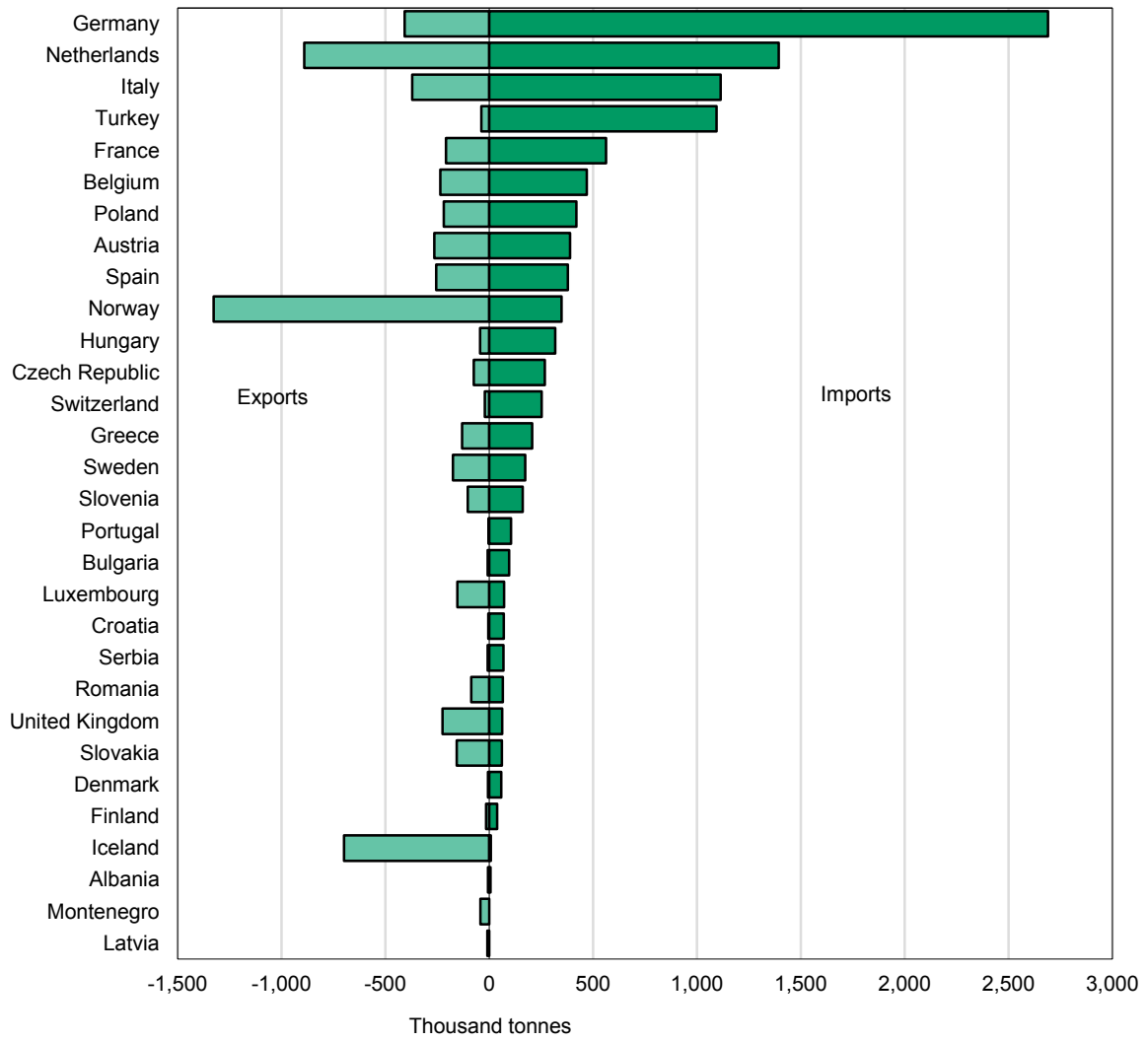
**Bauxite - EU36 trade in 2014**



Alumina and alumina hydrate - EU36 trade in 2014



Aluminium metal - EU36 trade in 2014



## 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 2014, with 76 per cent of world production. The second largest were Tajikistan and Russia (with four per cent each), followed by Turkey and Bolivia (with three per cent each). Antimony is also produced as a by-product of lead refining in many countries.

### Mine production of antimony

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Turkey	1 403	2 340	7 119	4 512	* 4 500

#### Notes

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

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

### Exports of antimony

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Ores and concentrates	433	274	1 187	4	57
Metal	776	732	259	271	138
Oxide	10 599	10 417	7 818	7 751	8 555
Estonia					
Metal	67	113	...	—	—
France					
Metal	145	24	60	95	68
Oxide	6 853	6 124	5 482	5 192	5 470
Germany					
Metal	132	239	103	86	20
Oxide	961	1 132	688	669	662
Italy					
Ores and concentrates	960	898	1 311	1 669	1 970
Metal	19	80	2	7	61
Oxide	226	261	215	399	450
Netherlands					
Metal	219	385	475	429	571
Oxide	433	264	206	155	250
Portugal					
Metal	138	70	277	138	51
Slovenia					
Metal	—	2	1	40	63
Spain					
Metal	19	50	247	2	11
Oxide	1 716	1 784	1 204	2 361	2 457
Turkey					
Ores and concentrates	2 765	2 977	2 450	3 150	2 935
Metal	21	6	113	554	367
United Kingdom					
Metal	77	57	237	425	525
Oxide	490	290	422	152	127

**Imports of antimony**

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metal	37	214	267	316	302
Oxide	249	204	156	164	288
Belgium					
Ores and concentrates	5	—	1	—	5 864
Metal	10 280	9 451	7 195	7 613	7 216
Oxide	904	831	1 822	786	794
Czech Republic					
Metal	75	64	31	42	103
Oxide	379	356	411	367	375
France					
Ores and concentrates	101	74	0	0	9
Metal	9 068	7 413	6 502	5 372	6 680
Oxide	1 577	2 854	1 677	1 572	1 542
Germany					
Ores and concentrates	11	8	6	922	1 202
Metal	494	456	376	462	280
Oxide	7 986	6 949	6 013	5 675	5 997
Greece					
Metal	74	84	47	98	46
Hungary					
Oxide	156	148	173	196	180
Ireland, Republic of					
Metal	64	0	0	0	0
Italy					
Ores and concentrates	1 378	1 169	1 474	1 964	2 347
Metal	233	298	132	332	188
Oxide	5 460	4 227	3 538	3 201	3 284
Netherlands					
Metal	314	208	586	697	628
Oxide	57 454	26 729	18 315	16 031	1 708
Norway					
Oxide	264	193	211	162	176
Poland					
Ores and concentrates	54	10	34	44	110
Metal	47	68	62	115	93
Oxide	1 044	1 026	949	841	922
Portugal					
Oxide	240	184	239	229	239
Romania					
Metal	61	43	9	55	18
Oxide	88	120	163	138	183
Slovenia					
Metal	36	150	25	49	101
Spain					
Ores and concentrates	103	29	10	7	10
Metal	2 642	2 450	1 553	2 760	1 609
Oxide	516	494	720	630	606
Sweden					
Oxide	219	227	194	153	149
Switzerland					
Oxide	1 108	1 131	583	505	492
Turkey					
Ores and concentrates	82	121	0	11	13
Metal	219	245	256	273	249
Oxide	885	739	705	817	925
United Kingdom					
Metal	68	120	257	280	375
Oxide	2 607	2 466	1 712	1 688	1 916



## 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 2014 and is estimated to produce more than half of world output. Other significant producers are Morocco, Russia and Belgium.

### Production of white arsenic

tonnes

Country	2010	2011	2012	2013	2014
Belgium	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	* 15	* 15	* 15	*—	*—

#### Notes

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

### Exports of metallic arsenic

tonnes

Country	2010	2011	2012	2013	2014
Belgium	114	120	191	104	79
France	5	8	10	3	6
Germany	57	66	128	40	24
Netherlands	11	62	55	22	62

#### Notes

- (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	2010	2011	2012	2013	2014
Belgium	114	634	284	72	74
Bulgaria	3	10	10	27	12
France	17	21	30	18	33
Germany	73	6	106	45	23
Greece	33	9	3	3	10
Italy	19	74	33	81	1
Netherlands	95	104	—	109	196
Poland	42	45	44	39	25
Romania	2	5	7	8	16
Slovenia	*—	11	11	10	15
Spain	96	93	143	117	209
Turkey	55	10	49	78	143
United Kingdom	7	5	15	11	7

#### Notes

- (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 53 per cent of the total world output, followed by China with an estimated 20 per cent. Other significant producers are Brazil (16 per cent) and Kazakhstan (11 per cent).

### Exports of unmanufactured asbestos

tonnes

Country	2010	2011	2012	2013	2014
Serbia	1	306	...	...	...
Switzerland	42	17	10	30	...

### Imports of unmanufactured asbestos

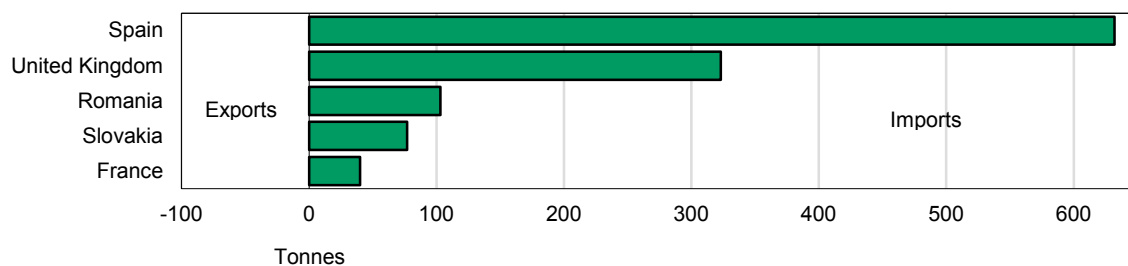
tonnes

Country	2010	2011	2012	2013	2014
France	42	(a)* 60	(a)* 10	(a)* 40	(a)* 40
Germany	72	88	554	78	—
Luxembourg	—	37	1	—	...
Romania	—	...	3	27	103
Slovakia	—	64	76	96	77
Spain	—	6	28	51	(a)* 632
United Kingdom	—	—	0	—	323

#### Notes

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

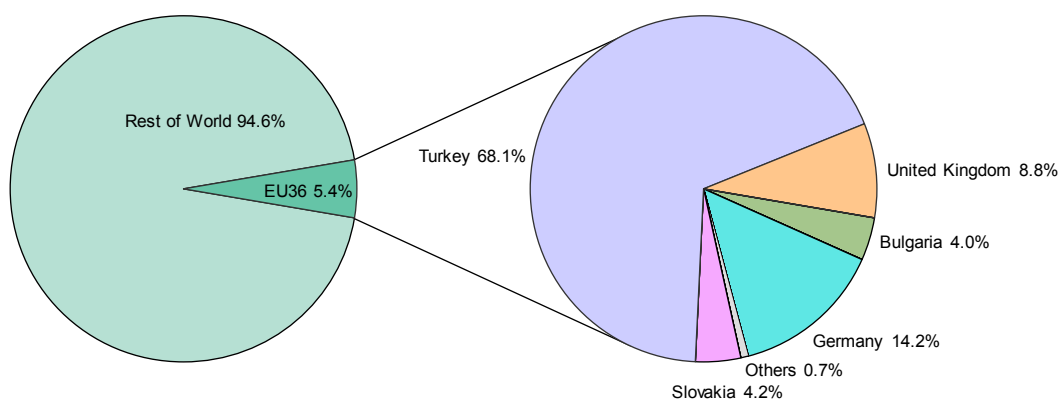
### Asbestos - EU36 trade in 2014



## 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 80 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 2014, with 44 per cent of the total world output. The second largest was India (15 per cent), followed by Morocco (11 per cent), USA (eight per cent) and Iran (five per cent).

**EU36 Production of barytes 2014**



## Production of barytes

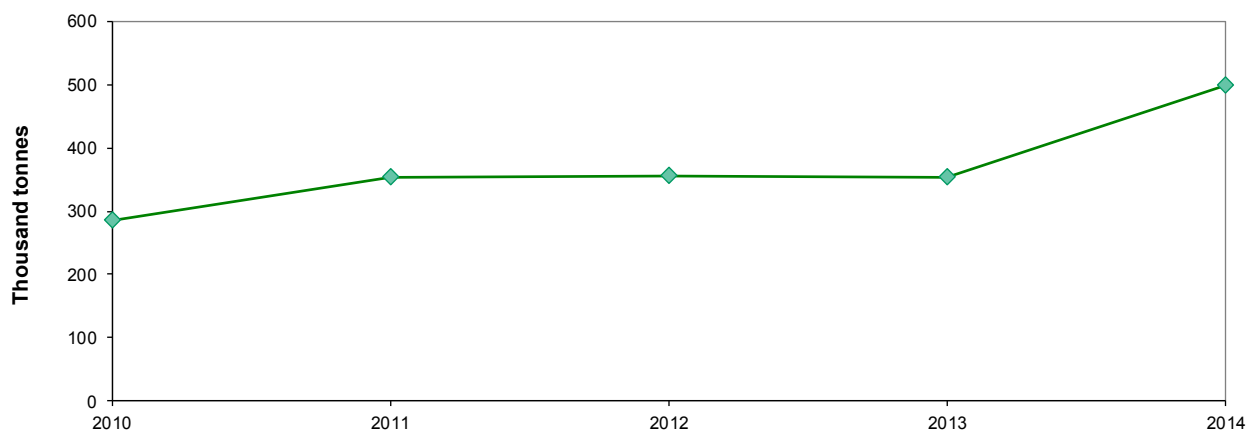
tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	500	200	—	1 000	20 000
Germany	55 887	55 342	52 030	45 446	70 665
Italy	* 3 500	* 3 500	* 3 500	* 3 500	* 3 500
Portugal	15	—	—	—	—
Slovakia	17 000	13 000	21 000	24 000	21 000
Spain	2 050	—	—	—	—
Turkey	172 618	250 786	* 250 000	* 250 000	* 340 000
United Kingdom	34 099	31 000	30 000	* 30 000	* 44 000
<b>EU36 total</b>	<b>286 000</b>	<b>354 000</b>	<b>357 000</b>	<b>354 000</b>	<b>499 000</b>

### Notes

(1) This table may include small quantities of witherite

**EU36 Production of barytes 2010 - 14**



**Exports of barytes**

tonnes

Country	2010	2011	2012	2013	2014
Austria	345	618	766	769	894
Belgium	3 216	213	1 713	11 796	33 463
Bulgaria	505	231	—	960	19 373
Denmark	(a)* 50	(a)* 1 300	(a)* 300	(a)* 700	1 111
France (a)	* 10 500	* 10 600	* 11 700	* 6 500	* 6 900
Germany (a)	* 33 000	* 34 000	* 29 000	* 12 500	* 2 100
Hungary	...	...	180	2 034	209
Italy	1 906	2 623	4 898	4 427	5 735
Netherlands	79 880	71 719	92 823	95 795	108 073
Norway	12 071	8 008	9 954	13 246	10 729
Romania	258	2 009	1 326	6 802	1 011
Slovakia	641	230	197	10 831	9 549
Spain	32 427	34 285	38 285	34 361	33 825
Turkey	175 497	144 238	157 967	215 363	273 831
United Kingdom (b)	17 851	15 648	19 072	13 854	13 550

## Notes

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

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

(b) Mainly barites with some witherite.

**Imports of barytes**

tonnes

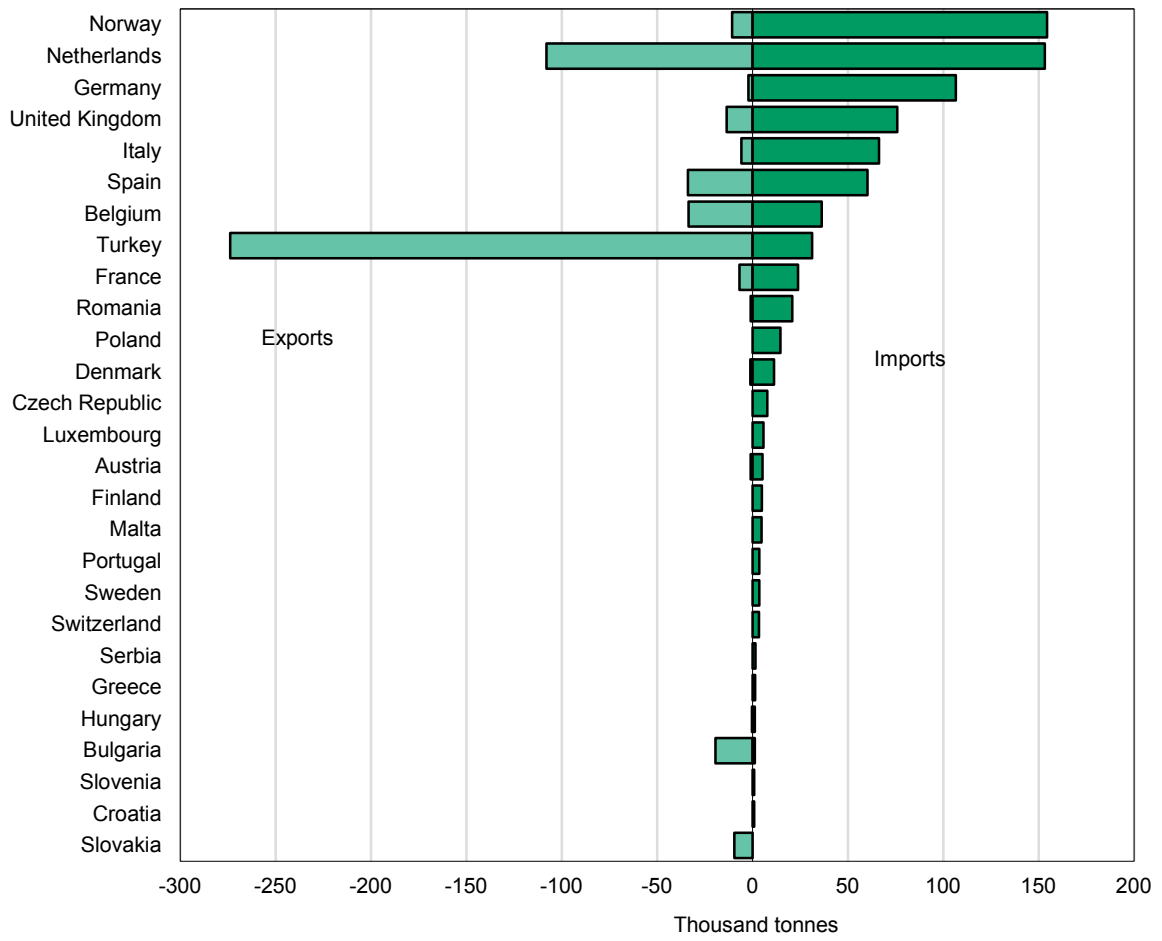
Country	2010	2011	2012	2013	2014
Albania	320	1 192	2 665	363	13
Austria	3 115	4 711	5 157	3 545	5 262
Belgium	5 637	4 294	12 095	7 961	36 304
Bulgaria	155	112	848	1 840	1 173
Croatia	710	125	2 225	1 105	847
Cyprus	5	58	2	848	—
Czech Republic	7 004	7 431	7 008	6 525	7 783
Denmark	17 749	20 497	8 262	16 259	11 217
Finland	4 406	4 383	4 101	3 988	4 847
France	41 513	29 516	40 294	32 790	23 809
Germany	263 839	291 716	237 254	171 262	106 647
Greece	1 318	2 277	1 222	2 667	1 396
Hungary	1 441	2 852	516	1 106	1 232
Italy	67 303	88 574	69 098	93 846	66 352
Luxembourg	17 182	17 049	12 350	6 827	5 728
Malta	10	14	6	11	4 813
Netherlands	161 343	148 240	168 963	140 000	153 290
Norway	149 510	139 620	124 210	159 682	154 378
Poland	11 758	15 723	21 567	11 154	14 600
Portugal	4 448	2 509	2 286	2 985	3 640
Romania	8 501	15 598	16 874	23 859	20 836
Serbia	421	1 494	3 468	2 491	1 578
Slovenia	457	609	881	860	929
Spain	106 637	70 896	49 674	47 798	60 311
Sweden	4 406	4 224	3 947	2 666	3 510
Switzerland	3 020	3 156	3 359	3 429	3 434
Turkey	342	2 863	5 567	29 019	31 297
United Kingdom (a)	89 474	99 872	88 042	102 274	75 984

## Notes

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

(a) Mainly barites with some witherite.

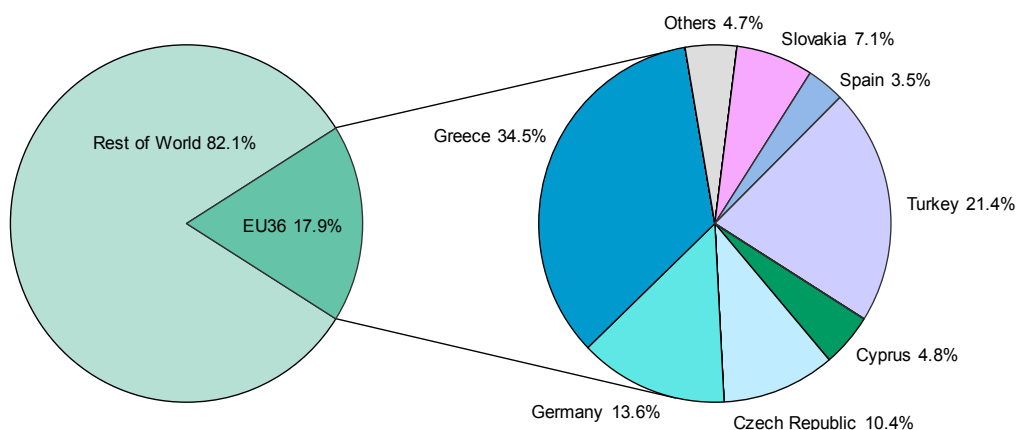
### Barytes - EU36 trade in 2014



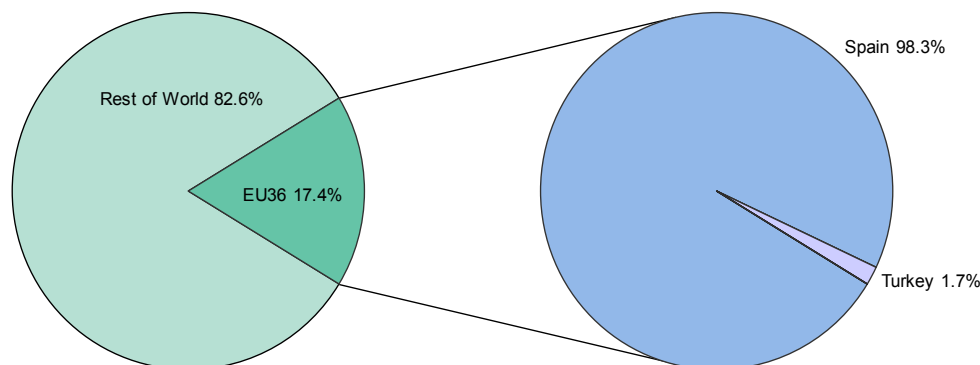
## Bentonite and fullers earth

- 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 2014, with an estimated 29 per cent of the total world output. The second largest was China (estimated at 22 per cent), followed by India (eight per cent) Greece (six per cent), Turkey and Mexico (four per cent each). The USA was also the largest producer of fuller's earth.

**EU36 Production of bentonite 2014**



**EU36 Production of attapulgite and sepiolite 2014**



### Production of bentonite and fuller's earth

tonnes

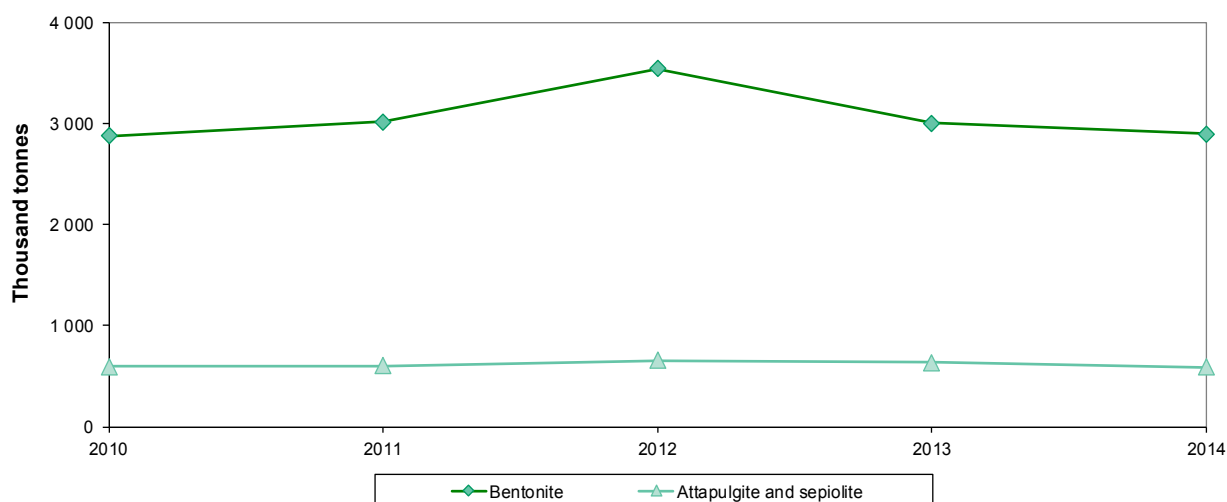
Country	2010	2011	2012	2013	2014
Bulgaria					
Bentonite	99 700	53 900	77 900	—	*—
Cyprus					
Bentonite	162 969	160 625	160 180	158 386	140 174
Czech Republic					
Bentonite	183 000	160 000	221 000	226 000	301 000
Denmark					
Bentonite	23 832	38 300	30 330	56 355	66 388
France					
Bentonite	25 000	20 000	28 000	25 000	20 000

Country	2010	2011	2012	2013	2014
Germany					
Bentonite	362 623	375 332	366 220	358 844	394 657
Greece					
Bentonite	844 804	1 250 000	1 235 110	1 200 000	1 000 000
Hungary					
Bentonite	17 200	22 931	1 392	7 397	* 10 500
Italy					
Bentonite	104 279	112 811	95 757	20 129	20 658
Macedonia					
Bentonite	7 084	8 918	2 355	18 520	11 691
Poland					
Bentonite	2 000	910	780	1 050	650
Romania					
Bentonite	21 637	19 864	19 241	24 127	18 583
Slovakia					
Bentonite	153 000	213 000	177 000	184 000	205 000
Slovenia					
Bentonite	135	168	98	143	199
Spain					
Bentonite	157 001	110 371	96 605	102 726	* 100 000
Attapulgit	27 841	26 021	23 537	26 764	* 26 800
Sepiolite	557 862	566 270	622 372	599 352	555 581
Turkey					
Bentonite	718 260	471 528	1 033 568	622 872	* 620 000
Sepiolite	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
EU36 total					
Bentonite	2 883 000	3 019 000	3 546 000	3 006 000	2 910 000
Attapulgit and sepiolite	596 000	602 000	656 000	636 000	592 000

## Notes

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

EU36 Production of bentonite, attapulgit and sepiolite 2010 - 14



**Exports of bentonite**

tonnes

Country	2010	2011	2012	2013	2014
Austria	3 447	4 954	4 513	4 947	4 149
Belgium	28 632	28 512	31 222	29 489	43 915
Bulgaria	72 183	67 118	63 090	45 919	35 954
Cyprus	98 803	114 923	130 413	122 699	116 581
Czech Republic	120 859	143 788	151 474	162 165	167 979
Denmark	13 787	13 827	17 711	20 620	36 421
Finland	0	61	27	123	540
France	12 709	11 472	8 826	7 658	9 365
Germany	84 920	91 477	82 504	72 020	73 547
Greece	13 203	33 306	14 233	7 770	13 904
Hungary	954	782	1 047	813	577
Italy	257 173	214 775	225 729	224 684	235 922
Lithuania	442	1 628	1 386	1 530	1 947
Macedonia	3 310	3 730	3 635	3 237	2 544
Netherlands	178 093	186 574	141 709	137 010	121 350
Norway	3 726	318	1 318	494	623
Poland	21 987	25 050	23 563	38 087	31 419
Portugal	1 175	1 356	1 935	1 672	2 175
Serbia	4 823	11 903	2 972	3 367	65
Slovakia	32 981	85 760	98 257	144 198	159 650
Spain					
Bentonite	66 096	54 547	54 376	56 416	50 219
Sepiolite	443 594	502 083	531 475	...	...
Sweden	3 457	3 300	5 492	9 949	10 085
Turkey	307 891	319 189	337 860	394 169	379 107
United Kingdom	41 323	38 478	39 535	37 694	31 347

## Notes

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

**Imports of bentonite**

tonnes

Country	2010	2011	2012	2013	2014
Albania	1 059	1 549	373	377	262
Austria	90 229	83 313	91 208	93 506	103 577
Belgium	72 971	91 291	68 771	71 394	77 905
Bulgaria	2 548	2 591	2 074	2 659	2 843
Croatia	7 852	16 906	5 394	6 391	4 746
Cyprus	4 629	142	280	6 246	4 193
Czech Republic	18 472	48 326	51 865	54 095	70 095
Denmark	43 049	34 130	41 931	38 382	42 097
Estonia	3 352	2 937	2 670	2 958	3 294
Finland	16 293	21 194	24 913	26 294	26 397
France	159 096	194 555	180 301	132 657	131 827
Germany	386 261	447 793	450 850	489 843	472 491
Greece	3 668	7 193	5 831	4 125	4 436
Hungary	4 360	4 648	6 527	10 490	9 969
Iceland	432	563	281	304	46
Ireland, Republic of	2 734	2 623	2 788	3 975	4 657
Italy	130 508	140 458	133 041	158 054	140 837
Latvia	2 787	3 434	2 701	3 501	4 430
Lithuania	4 378	6 250	6 656	7 366	9 361
Luxembourg	168	202	168	227	536
Macedonia	219	302	725	400	380
Malta	921	844	446	440	457
Netherlands	237 683	289 615	277 221	216 441	264 000
Norway	14 506	12 668	11 620	16 045	24 565
Poland	155 173	212 585	233 200	212 103	201 653

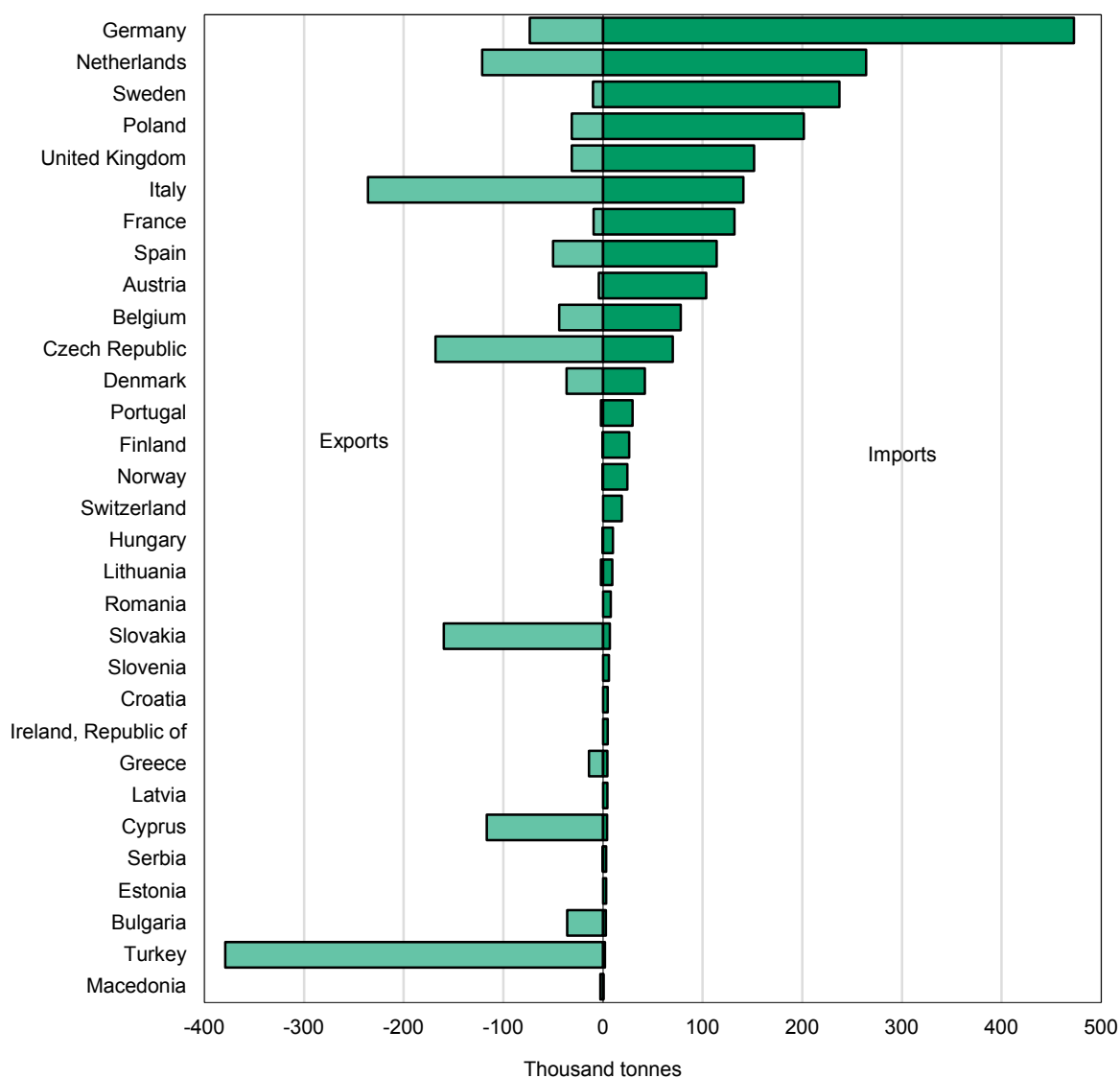


Imports continued	tonnes				
Country	2010	2011	2012	2013	2014
Portugal	18 205	23 436	26 466	21 319	29 840
Romania	4 825	6 341	8 463	8 787	7 789
Serbia	1 683	1 804	5 294	3 906	3 296
Slovakia	6 416	26 935	25 923	6 917	6 956
Slovenia	4 191	4 790	5 905	8 555	6 101
Spain	114 371	163 119	114 421	103 691	114 219
Sweden	200 422	214 173	231 973	189 875	237 429
Switzerland	20 362	19 316	19 203	19 982	19 037
Turkey	1 641	1 915	1 952	2 037	1 955
United Kingdom	141 849	200 332	183 343	173 094	151 570

## Notes

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

## Bentonite and Fuller's earth - EU36 trade in 2014



## 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 2014, with an estimated 41 per cent of the total world output. The second largest was Mexico (28 per cent), followed by Japan (17 per cent) and Vietnam (estimated at 12 per cent). Bismuth is also produced as a by-product of lead and zinc refining.

### Mine production of bismuth

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Bulgaria	* 3	* 3	* 3	* 3	* 3

#### Notes

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

### Exports of bismuth metal

tonnes

Country	2010	2011	2012	2013	2014
Czech Republic	19	3	4	8	4
France	20	49	115	259	168
Germany	178	210	195	86	386
Italy	1	13	11	2	2
Netherlands	34	32	52	107	194
Norway	25	—	—	—	—
Spain	9	9	4	6	15
Sweden	11	1	—	—	—
United Kingdom	427	1 038	744	407	348

### Imports of bismuth metal

tonnes

Country	2010	2011	2012	2013	2014
Austria	130	138	139	175	166
Belgium	1	24	16	30	41
Czech Republic	106	264	110	101	110
France	100	205	281	311	677
Germany	1 052	1 282	1 155	1 406	1 726
Greece	0	12	21	60	1
Hungary	106	50	43	35	46
Italy	355	378	154	146	128
Netherlands	259	192	427	694	981
Poland	34	23	24	33	31
Slovenia	49	63	57	75	66
Spain	141	99	103	107	49
Sweden	12	2	4	2	24
Switzerland	25	18	12	16	15
Turkey	11	16	7	15	10
United Kingdom	366	411	481	441	321

## Bromine

- Bromine is the only non-metallic element that is liquid at room temperature. It is strongly reactive and hazardous in pure forms and has a wide range of uses including medicines, fumigants, dyes, and pesticides.
- Bromine is almost entirely produced from processing sea-water. The USA was estimated to be the world's largest producer in 2014, with 35 per cent of the total world output. The second largest was Israel (27 per cent), followed by China (17 per cent), Jordan (with an estimated 15 per cent) and Japan (five per cent).

### Production of bromine

kilograms

Country	2010	2011	2012	2013	2014
Germany	1 500 000	1 600 000	1 600 000	1 500 000	1 500 000

### Exports of bromine

kilograms

Country	2010	2011	2012	2013	2014
Belgium	12 619 000	25 002 100	25 239 600	27 339 200	21 651 100
Bulgaria	...	0	0	25 200	100
Finland	...	22 200	—	—	—
Germany	6 119	7 543	8 559	28 941	5 044
Netherlands	1 477 700	1 154 400	84 300	95 800	1 340 200
Poland	9 800	7 100	3 600	5 400	5 100
Spain	15 627	86 311	10 480	72 396	5 303
United Kingdom	780 704	1 472 523	1 377 726	645 676	751 037

#### Notes

(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	2010	2011	2012	2013	2014
Austria	318 400	238 900	384 600	647 900	224 800
Belgium	18 693 500	28 221 500	28 260 600	27 220 500	29 495 400
Bulgaria	...	4 321	52	19 500	500
Croatia (a)	67	120	168	22 911	45
Finland	318 478	322 231	441 332	371 829	345 578
France	5 275 994	8 449 327	8 999 985	10 135 985	9 845 622
Germany	657 303	722 036	783 214	669 944	769 231
Hungary	4 500	8 800	5 600	9 300	10 200
Ireland, Republic of	743	38 566	675	501	1 568
Italy	1 259 187	1 207 042	939 005	939 294	416 440
Netherlands	123 400	61 900	262 000	32 000	387 100
Poland	17 200	11 200	66 300	35 300	4 100
Spain	222 746	250 417	188 015	181 058	215 251
United Kingdom	5 787 829	9 485 963	7 817 484	6 833 649	5 932 000

#### Notes

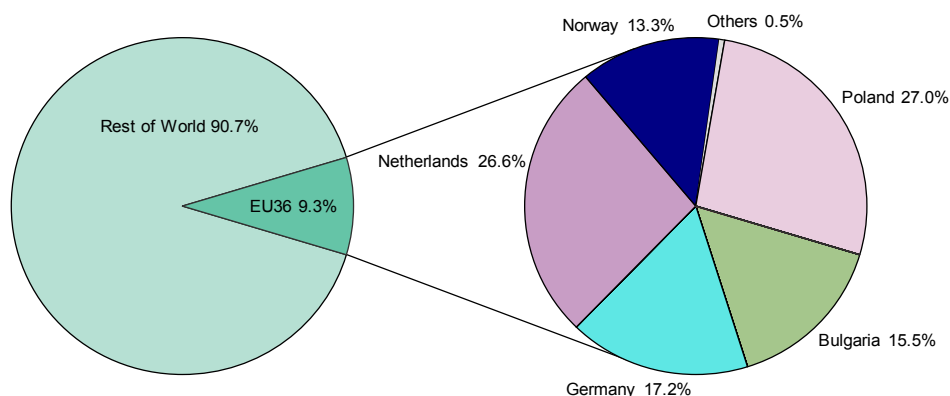
(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

(a) May include some fluorine

## Cadmium

- Cadmium is a highly toxic metallic element mostly produced as a by-product of zinc refining. The bulk of cadmium in use is in nickel-cadmium (NiCd) rechargeable batteries. Other major uses are in pigments and in metal coatings.
- China was the world's largest producer in 2014, with an estimated 30 per cent of the total world output. The second largest was South Korea (23 per cent), followed by Japan and Kazakhstan (seven per cent each), and Mexico (six per cent).

**EU36 Production of cadmium 2014**



### Production of cadmium

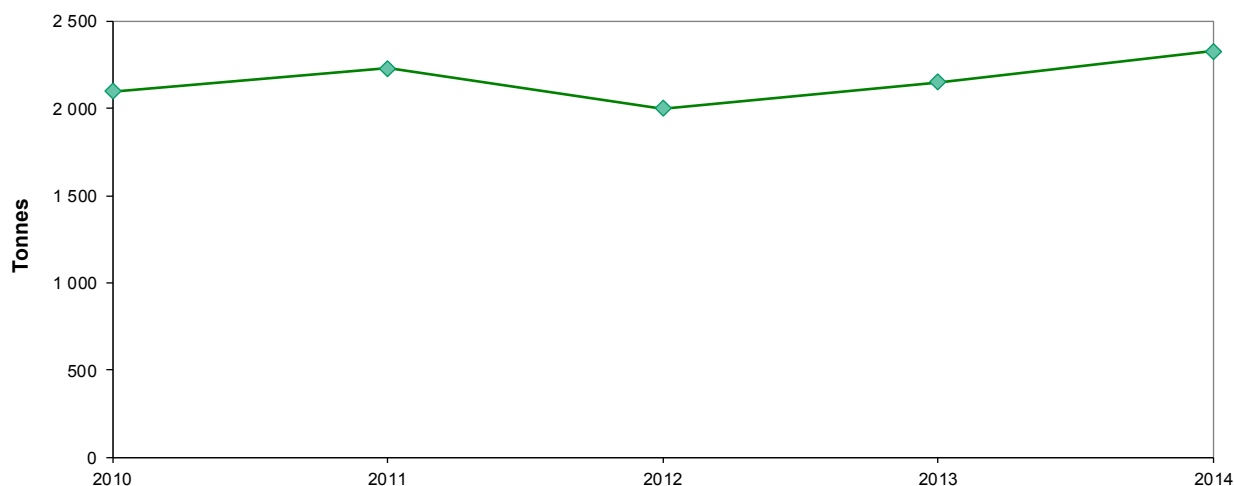
tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	389	427	363	* 360	* 360
Germany	* 400	* 400	* 400	* 400	* 400
Netherlands	* 560	* 570	* 560	* 610	* 620
Norway	300	309	* 310	* 310	* 310
Poland	451	526	370	460	628
Turkey	—	—	—	12	* 12
<b>EU36 total</b>	<b>2 100</b>	<b>2 200</b>	<b>2 000</b>	<b>2 200</b>	<b>2 300</b>

Notes

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

**EU36 Production of cadmium 2010 - 14**



**Exports of cadmium**

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Metal	459	545	690	178	229
Oxide	4 413	3 734	3 764	2 767	2 189
Bulgaria					
Metal	474	421	394	382	385
Estonia					
Metal	...	...	564	378	386
France					
Metal	763	549	733	584	285
Germany					
Metal	523	348	379	450	584
Italy					
Metal	3 104	1 722	363	3	3
Netherlands					
Metal	606	617	839	896	1 020
Norway					
Metal	329	317	221	267	227
Poland					
Metal	484	579	388	437	730
Sweden					
Oxide	360	429	335	330	338
United Kingdom					
Metal	2 545	1 441	272	99	44

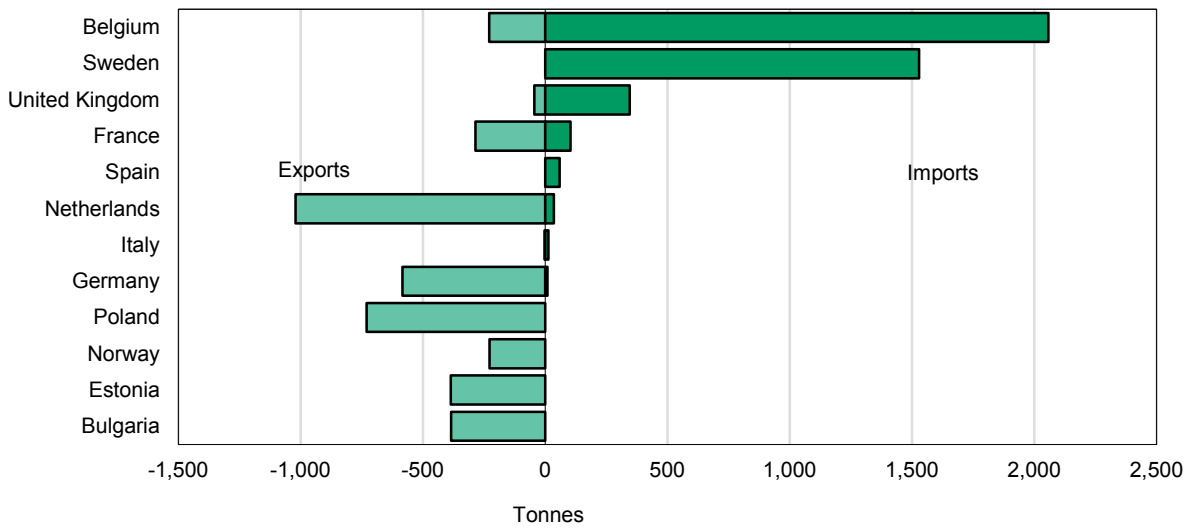
**Imports of cadmium**

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Metal	6 456	5 932	3 683	3 944	2 058
Oxide	43	109	7	32	111
Czech Republic					
Oxide	464	487	439	415	380
France					
Metal	212	100	285	70	104
Germany					
Metal	18	40	69	19	9
Oxide	625	489	653	621	507
Italy					
Metal	3	44	37	24	13
Netherlands					
Metal	102	1	15	36	35
Spain					
Metal	153	38	37	39	59
Sweden					
Metal	825	1 127	1 172	1 108	1 529
Oxide	107	172	145	105	13
United Kingdom					
Metal	470	542	229	304	346
Oxide	309	281	169	182	241

Cadmium

Cadmium metal - EU36 trade in 2014



## Cement

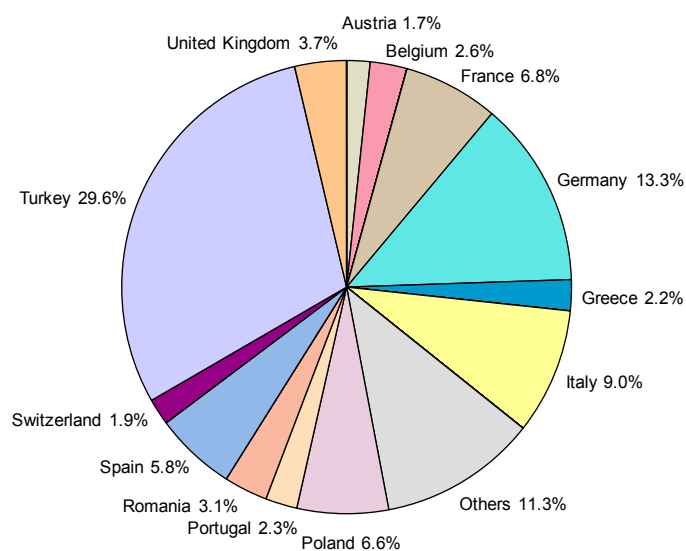
- Cement is a manufactured product and is the essential basis of concrete and mortar. Its chief raw materials are limestone or chalk and clay or mudstone. In Europe it is the largest use of limestone after crushed rock aggregate.
- Cement is made by firing a mixture of limestone and clay in a kiln to 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	2010	2011	2012	2013	2014
Austria	54 369	131 734	* 125 000	* 120 000	* 120 000
Belgium	858 871	* 700 000	726 690	911 116	* 900 000
Bulgaria	2 071 100	1 475 700	* 1 500 000	* 1 500 000	* 1 500 000
Cyprus	—	—	23 363	807 041	1 106 605
Czech Republic	2 748 472	3 132 268	2 837 600	2 472 196	2 792 101
Denmark	3 819	25	24 256	—	9 081
Estonia	537 000	719 000	714 600	691 400	721 000
France	14 901 000	15 229 000	14 178 000	13 778 000	13 146 000
Germany	22 996 000	24 775 000	24 581 000	23 127 000	23 871 000
Greece	7 446 775	4 569 167	5 544 951	6 754 154	7 025 675
Hungary	* 1 500 000	1 167 942	1 332 354	1 065 349	* 1 100 000
Italy	22 670 724	22 282 388	18 700 700	15 691 270	15 133 894
Latvia	1 158 000	1 277 000	1 485 720	* 1 500 000	* 1 500 000
Luxembourg	736 000	770 232	* 740 000	* 710 000	* 700 000
Norway	1 433 783	1 382 809	1 435 497	1 399 012	1 364 866
Poland	11 767 782	13 629 500	11 807 300	10 855 278	11 865 500
Portugal	6 483 644	5 351 024	4 881 543	5 427 443	5 967 865
Romania	5 201 629	5 751 215	5 873 601	5 061 670	5 466 540
Serbia	...	1 529 226	1 264 333	1 121 538	1 122 964
Slovakia	1 607 025	1 823 306	1 490 768	* 1 500 000	* 1 500 000
Spain	21 234 637	17 000 000	16 719 769	14 600 000	* 15 000 000
Sweden	1 790 784	* 1 750 000	* 1 750 000	* 1 750 000	* 1 750 000
Turkey	54 222 939	53 228 248	* 53 000 000	* 53 000 000	* 53 000 000
United Kingdom	6 598 000	7 096 000	6 555 000	6 712 000	7 197 000
<b>EU36 total</b>	<b>188 000 000</b>	<b>185 000 000</b>	<b>177 000 000</b>	<b>171 000 000</b>	<b>174 000 000</b>

### EU36 Production of finished cement 2014



**Production of finished cement**

tonnes

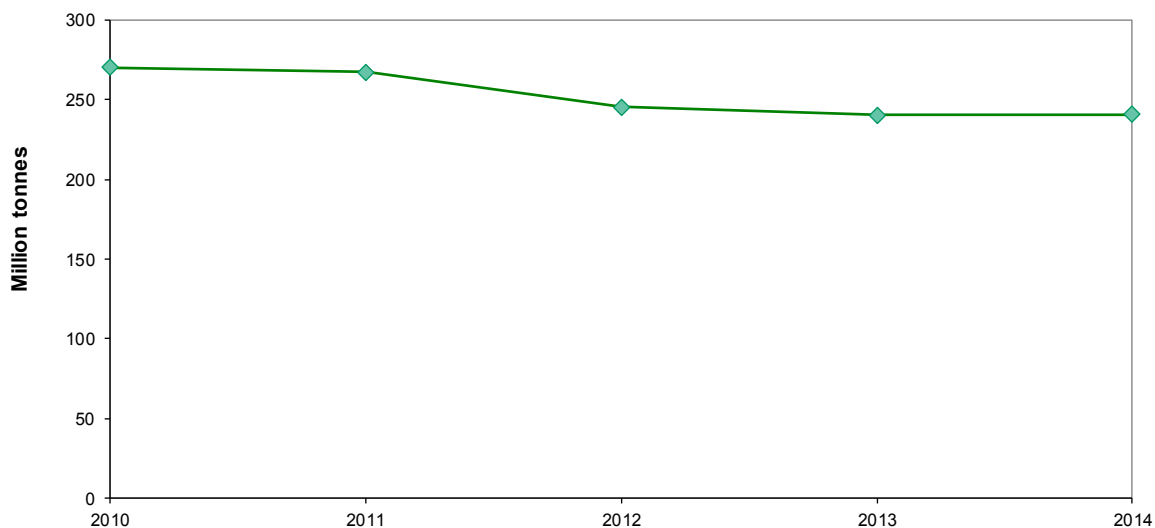
Country	2010	2011	2012	2013	2014
Austria	4 499 402	4 291 449	4 162 406	3 967 440	4 048 146
Belgium	5 990 000	6 844 000	6 280 000	6 119 000	6 364 000
Bulgaria	1 981 971	1 889 502	1 754 204	1 796 021	1 762 366
Cyprus	1 328 763	1 206 786	1 025 666	854 778	734 692
Czech Republic	3 345 000	3 831 000	3 434 000	3 211 000	3 731 000
Denmark	1 566 624	1 852 804	1 817 334	1 852 445	1 876 095
Estonia	375 000	451 000	481 500	456 700	447 000
Finland (a)	1 215 244	1 387 479	1 292 855	1 271 378	1 255 468
France	17 998 000	19 443 000	18 018 000	17 469 000	16 426 000
Germany	29 915 000	33 540 000	32 432 000	31 308 000	32 099 000
Greece	8 778 949	5 822 967	5 422 499	5 553 411	(a) 5 297 743
Hungary	* 2 560 000	* 2 200 000	* 2 300 000	* 2 300 000	* 2 200 000
Ireland, Republic of	* 2 290 000	* 1 700 000	1 573 000	1 450 000	1 500 000
Italy	37 061 576	34 114 018	27 831 741	23 114 037	21 672 232
Latvia	* 1 100 000	* 1 100 000	* 1 100 000	* 1 100 000	* 1 200 000
Lithuania	834 000	996 284	1 014 977	1 069 593	* 902 733
Luxembourg	1 030 700	1 232 633	1 177 000	1 127 000	1 057 000
Netherlands	2 138 000	2 318 000	2 056 000	2 120 000	1 984 000
Norway	1 467 363	1 579 505	1 661 157	1 694 150	1 693 379
Poland	15 756 000	18 929 000	15 918 614	14 831 323	15 814 500
Portugal (a)	6 665 585	6 072 751	5 392 995	5 342 661	5 480 202
Romania (a)	6 867 596	7 646 612	7 727 046	7 120 934	7 554 605
Slovakia	2 887 749	3 219 557	2 915 166	3 121 000	3 319 320
Slovenia	* 1 000 000	* 1 000 000	745 000	614 000	706 000
Spain	26 161 660	22 178 237	15 938 965	* 13 700 000	* 14 000 000
Sweden	2 298 000	2 546 000	2 611 000	2 654 000	2 885 000
Switzerland (b)	4 553 077	4 687 138	4 395 084	4 563 931	4 583 355
Turkey	70 800 657	66 656 800	67 019 400	72 687 000	71 239 000
United Kingdom (c)	7 883 000	8 529 000	7 952 000	8 203 000	8 958 000
<b>EU36 total</b>	<b>270 300 000</b>	<b>267 300 000</b>	<b>245 400 000</b>	<b>240 700 000</b>	<b>240 800 000</b>

## Notes

(a) Sales

(b) Includes production in Liechtenstein

(c) Great Britain only.

**EU36 Production of finished cement 2010 - 14**



## Exports of cement

Country	2010	2011	2012	2013	2014
Albania					
Cement clinkers	87 590	(a)* 22 370	23 341	18 066	(a)* 310
Portland cement	511 681	674 037	1 026 560	997 924	22 552
Other cement	25	(a)* 350	(a)* 350	(a)* 210	(a)* 210
Austria					
Cement clinkers	46 560	173 312	121 529	72 246	67 398
Portland cement	213 082	330 710	299 060	277 032	347 257
Other cement	50 592	25 432	21 521	41 174	41 496
Belgium					
Cement clinkers	582 766	744 707	638 496	775 332	729 017
Portland cement	1 676 150	1 729 402	1 631 167	1 719 988	1 870 308
Other cement	410 909	353 126	253 759	239 879	182 001
Bulgaria					
Cement clinkers	5 246	8 131	296 372	237 020	270 307
Portland cement	164 404	190 570	269 199	269 977	112 636
Other cement	1 772	6 516	21 341	4 713	3 833
Croatia					
Cement clinkers	176 403	103 281	284 480	324 551	398 469
Portland cement	639 236	1 189 738	897 747	1 250 523	1 260 578
Other cement	601 470	180 836	102 405	146 025	201 659
Cyprus					
Cement clinkers	—	—	6 535	739 613	963 022
Portland cement	12 866	42 438	248 521	343 434	233 978
Czech Republic					
Cement clinkers	88 236	169	10 362	1 222	96
Portland cement	402 537	844 920	665 669	598 254	601 696
Other cement	218 689	232	124	124	487
Denmark					
Cement clinkers	11 884	2 689	24 658	598	10 929
Portland cement	731 730	813 938	767 554	754 399	781 786
Other cement	3 860	4 175	4 565	4 574	5 580
Estonia					
Cement clinkers	222 190	426 994	347 754	346 684	363 908
Portland cement	148 505	186 255	208 131	202 614	193 939
Other cement	488	752	1 107	3	28
Finland					
Portland cement	373	92	6	1 172	191
France					
Cement clinkers	282 673	179 184	210 901	218 646	194 116
Portland cement	766 167	764 305	765 777	896 682	789 824
Germany					
Cement clinkers	680 552	761 406	475 987	443 142	420 122
Portland cement	4 173 112	5 002 240	4 672 927	4 217 917	3 843 447
Other cement	2 010 734	2 159 075	1 794 724	1 664 700	1 911 501
Greece					
Cement clinkers	722 142	459 716	1 877 641	1 828 644	3 225 696
Portland cement	3 122 615	1 548 482	2 398 675	3 733 819	2 519 835
Other cement	47 435	155 000	604	9 525	18 483
Hungary					
Cement clinkers	296	25	203 686	8 551	8 515
Portland cement	185 279	277 497	269 382	231 601	215 190
Other cement	795	6 451	1 363	11 762	2 201
Iceland					
Portland cement	4	146	1	35	—
Ireland, Republic of					
Cement clinkers	1	—	16 698	0	—
Portland cement	1 025 910	942 940	1 238 718	1 234 596	1 524 566
Other cement	8 787	1 158	971	1 074	595
Italy					
Cement clinkers	52 673	45 472	47 155	129 335	206 598
Portland cement	2 035 118	1 681 397	1 838 228	2 440 982	2 393 724
Other cement	393 746	250 624	200 038	162 360	192 682
Latvia					
Cement clinkers	68 802	201 050	163 102	26 930	2 019
Portland cement	562 435	673 260	759 738	734 184	890 382
Other cement	76	250	176	237	107

## Cement

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Lithuania					
Portland cement	352 750	450 601	529 457	604 824	362 762
Other cement	1 151	406	36	280	1 411
Luxembourg					
Cement clinkers	7 695	4 215	1	2	—
Portland cement	341 075	424 306	321 903	407 310	399 064
Other cement	219 688	320 980	338 240	216 961	195 342
Macedonia					
Cement clinkers	...	0	154 117	20 118	...
Portland cement	315 074	277 326	136 803	164 396	127 436
Other cement	1 027	...	...	...	6 347
Montenegro					
Portland cement	...	2 372	1 583	3 250	246
Netherlands					
Cement clinkers	34	3 911	33 160	2 022	398
Portland cement	201 065	310 479	274 856	291 279	308 896
Other cement	57 922	150 175	203 678	419 501	402 813
Norway					
Cement clinkers (a)	* 150 000	* 251 000	* 104 000	* 40 000	* 2 500
Portland cement (a)	* 144 000	* 94 000	* 138 000	* 148 000	* 179 000
Poland					
Cement clinkers	89 692	46 295	99 977	147 787	241 114
Portland cement	415 187	358 847	303 667	419 673	524 213
Other cement	22 984	17 523	28 200	20 620	19 150
Portugal					
Cement clinkers	1 888 362	916 431	994 099	1 410 579	1 860 476
Portland cement	996 778	1 345 607	2 000 541	2 668 095	3 132 133
Other cement	10 440	8 111	40 461	57 065	38 377
Romania					
Cement clinkers	265	24 810	84 874	7 092	2 652
Portland cement	20 039	278 795	333 946	156 625	184 798
Other cement	214	16 310	16 668	10 984	13 691
Serbia					
Portland cement	156 477	115 432	138 914	81 091	87 741
Slovakia					
Cement clinkers	69 366	44 607	—	0	23 569
Portland cement	1 396 241	1 795 235	1 407 502	1 876 911	1 937 757
Other cement	21 660	10	28	77	28
Slovenia					
Cement clinkers	42 475	140 361	175 807	256 109	351 686
Portland cement	168 056	200 615	172 090	153 772	201 189
Other cement	4 731	988	308	2 487	966
Spain					
Cement clinkers	1 541 790	1 590 245	3 493 671	3 870 209	4 669 688
Portland cement	2 768 457	2 594 711	3 021 493	3 333 949	4 361 048
Other cement	87 864	174 167	117 257	194 554	119 739
Sweden					
Cement clinkers	505 585	267 884	391 898	357 876	132 346
Portland cement	467 559	590 443	782 362	752 187	1 166 546
Other cement	5 819	7 120	8 546	7 774	7 694
Switzerland					
Cement clinkers	6 983	104	35	350	45
Portland cement	103 952	63 262	72 143	142 900	151 319
Other cement	2 959	51	67	467	227
Turkey					
Cement clinkers	2 792 332	2 472 979	2 980 566	2 176 337	2 927 812
Portland cement	15 842 398	11 750 755	10 716 605	10 290 995	8 026 728
Other cement	415 763	315 159	104 504	165 249	137 515
United Kingdom					
Cement clinkers	5 500	15 531	31 458	24 056	21 059
Portland cement	134 223	121 537	239 058	85 405	68 225
Other cement	56 781	62 333	75 502	76 851	71 169

## Notes

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

## Imports of cement

Country	2010	2011	2012	2013	2014
Albania					
Cement clinkers	40	...	5 260	79 661	(a) 150 900
Portland cement	593 883	384 655	284 837	122 507	(a) 81 800
Other cement	300 788	211 346	162 203	107 529	58 603
Austria					
Cement clinkers	407 616	393 132	297 009	262 939	261 617
Portland cement	637 550	913 116	797 976	749 455	639 189
Other cement	71 535	60 349	54 115	133 721	293 335
Belgium					
Cement clinkers	740 528	717 664	649 014	779 293	929 178
Portland cement	1 030 282	1 113 638	1 310 336	978 809	773 120
Other cement	172 609	158 441	163 298	138 660	141 542
Bulgaria					
Cement clinkers	16 167	17 478	14 586	4 929	20 157
Portland cement	448 220	431 780	436 036	368 272	333 479
Other cement	2 510	6 147	8 567	6 496	2 085
Croatia					
Cement clinkers	967	144	44	9	2 415
Portland cement	344 352	326 526	315 804	261 584	311 539
Other cement	7 619	4 200	1 001	1 197	6 537
Cyprus					
Cement clinkers	29 579	69 780	6 498	10 100	3 307
Portland cement	2 512	545	416	466	91
Other cement	242	138	78	113	2 365
Czech Republic					
Cement clinkers	121 682	44 577	86 089	141 404	203 640
Portland cement	702 257	765 382	638 364	593 385	503 497
Other cement	48 336	31 074	26 875	9 941	8 143
Denmark					
Cement clinkers	23 732	29 888	24 464	25 822	27 510
Portland cement	180 249	244 007	211 379	209 012	208 431
Other cement	38 797	19 941	19 569	15 876	19 652
Estonia					
Cement clinkers	13 474	(a)* 1 800	4 688	4 526	5 132
Portland cement	36 354	52 807	27 404	34 852	42 847
Other cement	827	1 545	13 043	31 565	42 817
Finland					
Cement clinkers	14 191	16 790	7 512	2 912	1 368
Portland cement	587 410	549 673	498 577	401 067	422 293
Other cement	10 202	16 408	13 870	20 606	20 825
France					
Cement clinkers	838 538	849 577	693 269	1 118 820	958 385
Portland cement	2 422 582	3 113 977	3 057 832	2 776 280	2 798 666
Other cement	559 436	246 702	239 915	289 020	333 467
Germany					
Cement clinkers	18 037	52 111	82 345	43 676	44 715
Portland cement	939 310	1 054 856	1 023 170	1 043 382	1 016 930
Other cement	255 027	217 931	218 486	273 164	275 562
Greece					
Cement clinkers	12 100	34 712	65 317	87 439	122 637
Portland cement	206 164	159 514	49 204	24 791	41 196
Other cement	15 136	22 371	22 214	13 618	13 338
Hungary					
Cement clinkers	69 469	67 770	43 196	68 506	128 882
Portland cement	495 045	785 166	710 516	978 968	1 019 495
Other cement	34 191	33 802	6 809	27 678	27 360
Iceland					
Portland cement	24 481	26 714	64 565	82 861	95 935
Other cement	4 405	226	229	255	242
Ireland, Republic of					
Cement clinkers	15 459	23 190	24 718	25 005	18 666
Portland cement	133 977	100 440	86 608	87 458	103 491
Other cement	4 974	4 112	4 375	5 793	4 229

## Cement

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Italy					
Cement clinkers	797 703	844 108	729 063	450 465	436 549
Portland cement	1 298 080	1 119 225	998 392	804 854	664 331
Other cement	139 459	125 066	106 926	108 775	93 431
Latvia					
Cement clinkers	158	(a) 20	701	68	106
Portland cement	94 873	89 751	108 596	137 815	168 013
Other cement	643	281	306	229	267
Lithuania					
Cement clinkers	176 461	227 793	173 488	24 015	22
Portland cement	122 178	144 824	147 329	199 114	281 613
Other cement	390	502	479	671	1 555
Luxembourg					
Cement clinkers	27 238	34 532	34 703	8 589	10 615
Portland cement	34 642	42 548	37 740	67 220	103 013
Other cement	12 119	14 934	15 382	11 592	13 447
Macedonia					
Cement clinkers	1 191	8 932	(a)* 20	...	(a) —
Portland cement	185 378	148 954	193 978	178 196	207 763
Other cement	1 213	409	501	545	692
Malta					
Portland cement	285 182	258 304	260 664	223 401	258 469
Other cement	13 002	6 676	2 906	2 122	2 994
Montenegro					
Portland cement	266 063	250 759	248 013	267 715	288 075
Other cement	116 132	90 911	92 927	96 956	81 088
Netherlands					
Cement clinkers	636 694	424 274	558 153	634 548	352 521
Portland cement	1 123 936	1 580 140	1 278 033	1 259 993	1 610 207
Other cement	1 136 163	1 475 035	1 488 241	1 271 302	1 115 885
Norway					
Cement clinkers	7 070	170	312	376	101
Portland cement	353 102	409 018	435 344	464 686	491 789
Other cement	21 621	25 809	28 533	31 974	28 655
Poland					
Cement clinkers	100 352	19 900	7 873	11 334	26 189
Portland cement	565 893	932 507	695 629	659 111	763 618
Other cement	26 247	25 467	21 027	108 490	75 243
Portugal					
Cement clinkers	34 216	5 037	3 930	1 044	224
Portland cement	238 605	238 605	220 968	308 064	374 506
Other cement	8 557	8 067	7 795	6 749	2 579
Romania					
Cement clinkers	75 812	144 547	144 116	216 322	207 700
Portland cement	307 977	239 373	240 469	208 701	196 179
Other cement	22 004	21 297	18 626	14 882	19 494
Serbia					
Cement clinkers	1 321	5 309	51 360	27 469	36 541
Portland cement	52 582	92 665	194 728	198 866	238 754
Other cement	728	784	664	1 979	1 536
Slovakia					
Cement clinkers	6 380	9 706	5 840	29 373	33 807
Portland cement	256 358	281 910	266 308	300 277	376 153
Other cement	34 733	102 134	71 001	60 034	13 249
Slovenia					
Cement clinkers	129	95 704	168 235	2 549	42
Portland cement	328 563	334 053	210 734	206 144	204 199
Other cement	17 328	8 237	4 077	2 626	3 179
Spain					
Cement clinkers	1 334 019	490 339	80 228	106 170	103 630
Portland cement	637 040	450 416	363 065	274 456	320 675
Other cement	14 479	15 884	17 347	24 997	23 245
Sweden					
Cement clinkers	36 629	58 132	5 230	8 044	76 665
Portland cement	348 431	419 332	391 030	403 823	455 351
Other cement	36 399	42 002	43 520	67 981	84 244

Imports continued

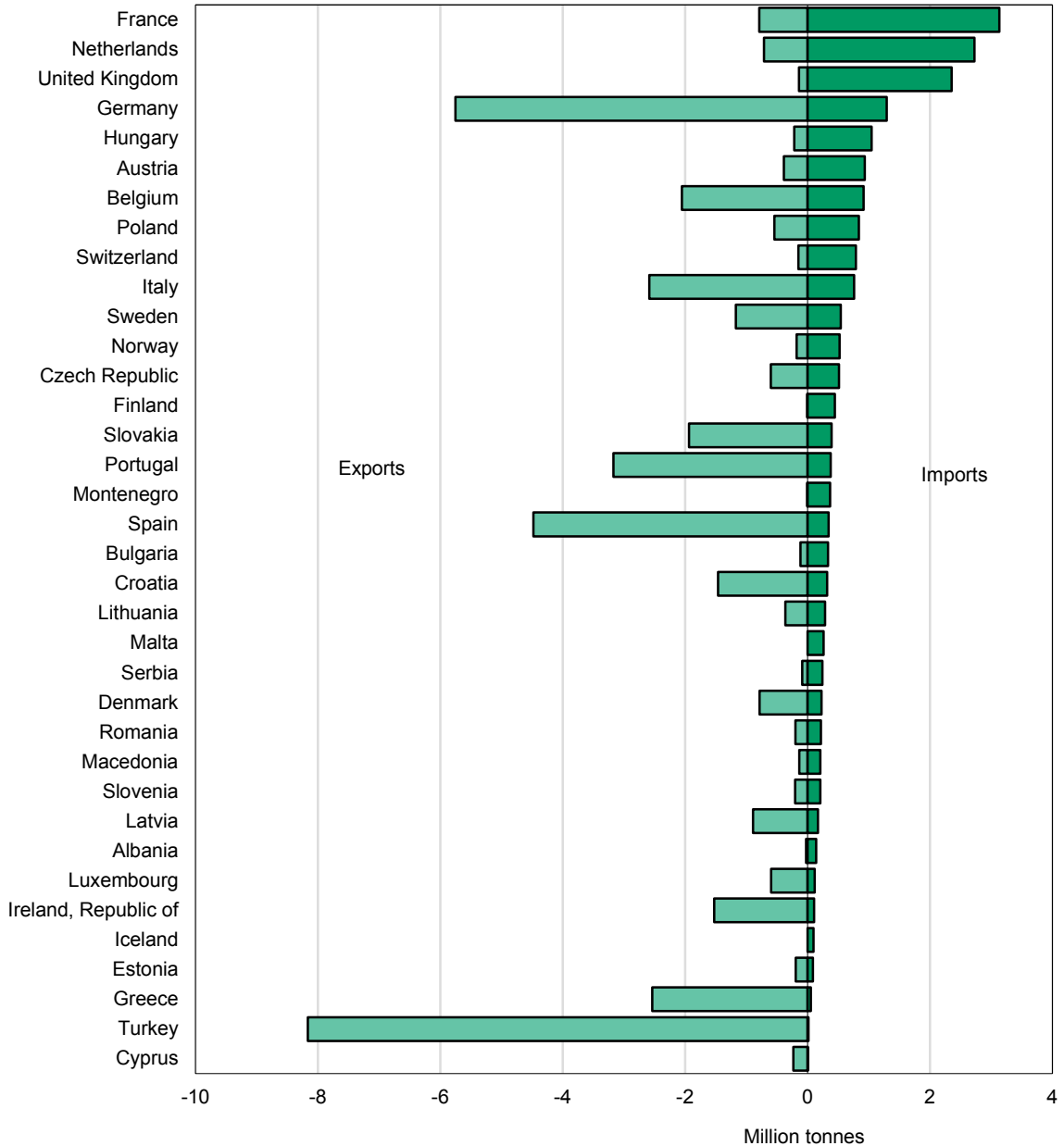
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Country	2010	2011	2012	2013	2014
Switzerland					
Cement clinkers	74 946	46 117	2 580	62 514	82 786
Portland cement	465 699	538 979	526 305	588 965	642 843
Other cement	49 549	73 361	92 633	121 136	144 179
Turkey					
Cement clinkers	58 176	10 511	58 098	99 947	123 558
Portland cement	5 875	3 406	21 972	23 322	3 841
Other cement	6 168	10 847	7 142	6 982	8 117
United Kingdom					
Cement clinkers	201 308	208 595	206 086	290 071	981 457
Portland cement	1 759 841	1 746 862	1 429 848	1 776 713	2 314 549
Other cement	92 031	100 453	31 045	32 498	39 732

Notes

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

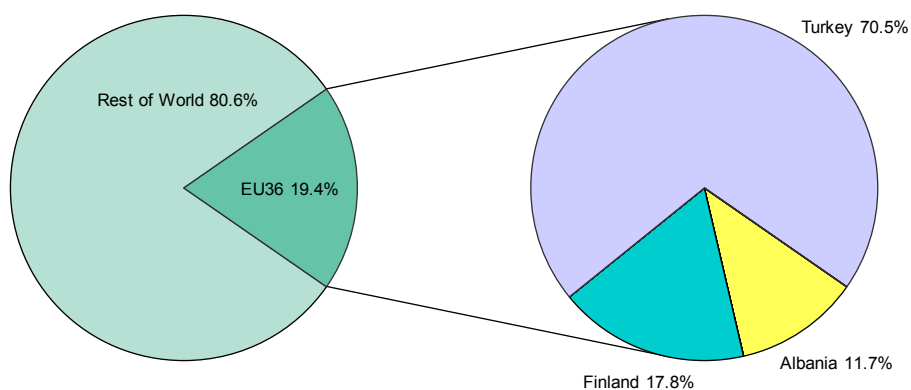
Cement - EU36 trade in 2014



## 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 2014, with 47 per cent of the total world output. The second largest was Kazakhstan (18 per cent), followed by Turkey (with an estimated 14 per cent), India (six per cent), and Finland (three per cent).

**EU36 Production of chromium ores and concentrates 2014**



## Production of chromium ores and concentrates

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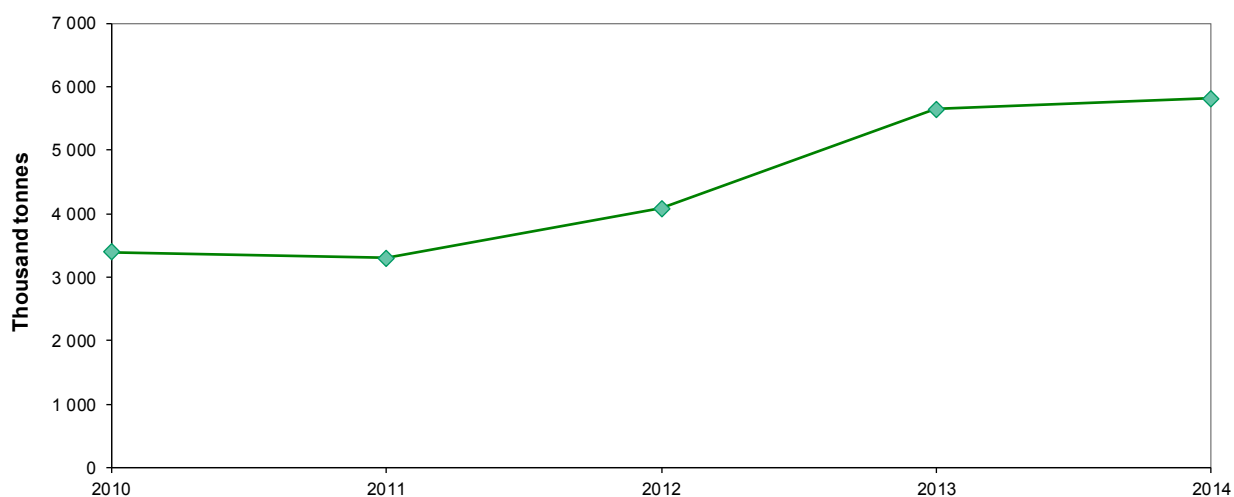
Country	2010	2011	2012	2013	2014
Albania	334 467	330 938	365 749	529 592	678 803
Finland (a)	598 000	692 527	425 217	981 752	1 034 750
Turkey	2 461 314	2 281 981	3 295 398	4 140 655	* 4 100 000
<b>EU36 total</b>	<b>3 394 000</b>	<b>3 305 000</b>	<b>4 086 000</b>	<b>5 652 000</b>	<b>5 814 000</b>

### Notes

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

(a) Concentrates

**EU36 Production of chromium ores and concentrates 2010 - 14**



**Exports of chromium**

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Ores and concentrates	428 385	346 792	427 092	756 361	479 445
Austria					
Ores and concentrates	4	1 163	413	9	88
Metal	10 245	2 138	565	707	230
Belgium					
Ores and concentrates	18 415	13 945	34 801	44 009	59 056
Metal	1 311	1 010	676	915	558
Bulgaria					
Metal	2	603	304	91	142
Czech Republic					
Ores and concentrates	764	1 140	1 061	838	548
Metal	21	103	31	149	163
Denmark					
Metal	1 056	601	548	427	505
Finland					
Ores and concentrates	8 291	5 231	4 575	3 424	148
Metal	1 813	2 366	1 950	2 542	174
France					
Ores and concentrates	2 422	2 168	1 858	3 390	2 729
Metal	7 612	8 034	9 720	9 509	9 857
Germany					
Ores and concentrates	32 070	53 989	60 354	59 965	54 329
Metal	4 606	2 995	6 308	3 496	3 928
Italy					
Ores and concentrates	1 617	3 764	1 831	1 828	2 259
Netherlands					
Ores and concentrates	74 483	126 012	156 975	175 682	138 528
Metal	3 569	2 197	3 112	5 870	6 384
Norway					
Metal	97	78	202	61	35
Poland					
Ores and concentrates	425	3 604	536	373	923
Metal	7 948	7 135	2 977	4 423	5 980
Slovakia					
Metal	777	83	2	2	—
Slovenia					
Metal	123	174	1	1	3
Spain					
Ores and concentrates	600	1 252	4 225	2 250	968
Metal	665	237	555	470	518
Sweden					
Metal	191	167	123	122	140
Switzerland					
Metal	82	92	111	322	275
Turkey					
Ores and concentrates	2 256 387	2 161 001	2 129 693	2 218 264	1 503 900
Metal	184	1 930	2 344	63	168
United Kingdom					
Ores and concentrates	297	168	50	50	57
Metal	7 441	8 017	7 737	7 061	7 216

## Notes

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

**Imports of chromium**

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Ores and concentrates	4 651	7 477	...	...	...
Austria					
Ores and concentrates	54 945	20 921	33 317	29 138	32 916
Metal	6 109	7 868	4 854	4 365	1 424
					191

## Chromium

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Ores and concentrates	25 350	22 896	39 090	52 755	57 166
Metal	1 593	3 023	977	834	1 062
Bulgaria					
Ores and concentrates	671	971	1 086	679	1 059
Croatia					
Metal	419	345	404	177	14
Czech Republic					
Ores and concentrates	7 986	7 986	8 413	6 897	6 974
Metal	514	139	147	218	307
Denmark					
Ores and concentrates	463	579	866	833	1 252
Finland					
Ores and concentrates	9 197	20 853	9 372	3 726	2 527
Metal	139	194	139	94	137
France					
Ores and concentrates	11 273	15 835	14 844	10 639	14 204
Metal	1 155	524	466	837	972
Germany					
Ores and concentrates	101 972	180 377	188 783	191 488	141 895
Metal	4 783	5 931	6 887	7 596	7 163
Hungary					
Metal	82	99	95	130	172
Ireland, Republic of					
Metal	83	179	40	77	82
Italy					
Ores and concentrates	22 012	31 861	30 547	28 069	24 772
Metal	881	1 738	1 598	1 960	1 409
Macedonia					
Ores and concentrates	294	512	324	268	885
Netherlands					
Ores and concentrates	88 788	135 776	180 648	150 921	974
Metal	6 642	5 773	4 789	5 260	6 704
Norway					
Ores and concentrates (a)	* 400	* 500	* 300	* 200	* 200
Metal	90	437	453	543	92
Poland					
Ores and concentrates	15 672	30 863	27 723	30 554	26 625
Metal	2 692	4 530	76	416	256
Portugal					
Ores and concentrates	2 108	2 727	2 639	2 206	2 529
Romania					
Ores and concentrates	7 054	1 637	2 288	1 514	1 990
Metal	16	105	50	151	161
Serbia					
Ores and concentrates	641	725	211	140	234
Slovakia					
Ores and concentrates	4 546	5 542	3 562	5 459	5 204
Slovenia					
Ores and concentrates	1 912	966	466	677	476
Metal	104	97	101	98	108
Spain					
Ores and concentrates	5 579	9 262	10 487	6 644	9 276
Metal	1 878	2 350	1 479	1 438	1 854
Sweden					
Ores and concentrates (a)	* 169 000	* 128 600	* 135 900	* 79 000	* 221 900
Metal	4 999	6 598	6 139	5 490	3 870
Switzerland					
Ores and concentrates	1 051	809	1 359	1 253	643
Metal	74	71	93	147	104
Turkey					
Ores and concentrates	113 487	122 070	162 266	152 549	129 697
Metal	65	108	91	183	131



Imports continued

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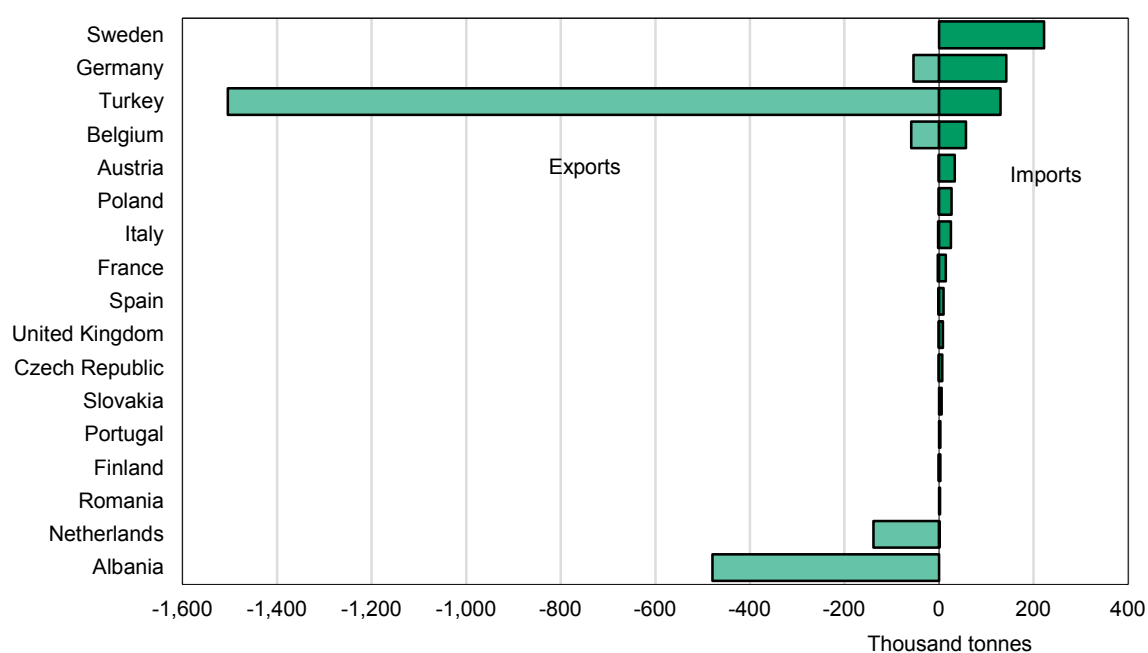
Country	2010	2011	2012	2013	2014
United Kingdom					
Ores and concentrates	7 084	10 572	9 124	10 033	8 111
Metal	3 007	2 346	1 663	1 751	1 829

## Notes

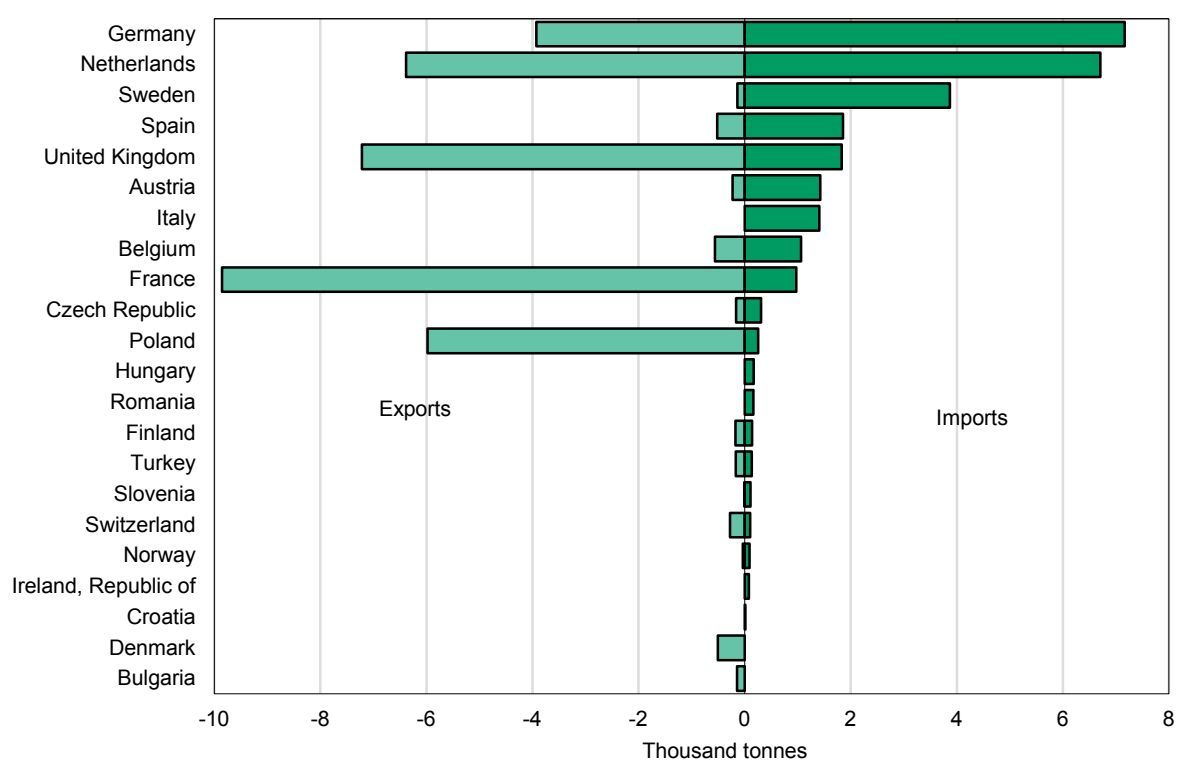
(1) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

## Chromium ores and concentrates - EU36 trade in 2014



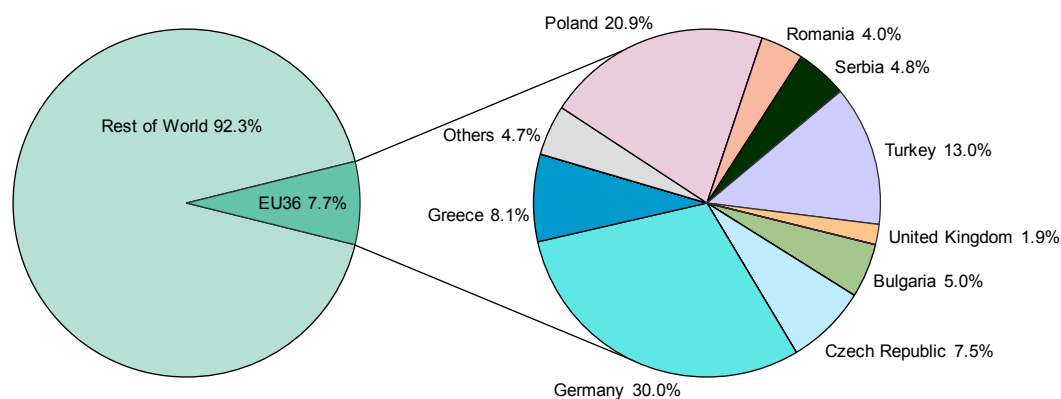
## Chromium metal - EU36 trade in 2014



## 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 2014, with 48 per cent of the total world output. The second largest was USA (12 per cent), followed by India (seven per cent), Australia (six per cent) and Indonesia (five per cent).

**EU36 Production of coal (all forms) 2014**



## Production of coal

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Lignite	3 000	100	—	—	—
Bulgaria					
Lignite	27 148 300	34 496 200	31 040 700	26 459 300	29 129 000
Brown coal	2 321 200	2 743 500	2 556 700	2 301 500	2 200 000
Czech Republic					
Bituminous	11 193 000	10 967 000	10 796 000	8 610 000	8 341 000
Brown coal	43 931 000	46 848 000	43 710 000	40 585 000	38 348 000
Germany					
Anthracite and Bituminous	14 110 000	12 960 000	11 558 000	8 260 000	8 340 000
Brown coal	169 402 544	176 502 048	185 432 000	182 995 337	178 177 703
Greece					
Lignite	53 600 000	58 400 000	62 334 800	55 000 000	50 411 000
Hungary					
Lignite	8 202 859	8 800 783	8 438 000	8 834 000	8 918 000
Brown coal	813 403	699 129	875 944	718 700	636 000
Macedonia					
Lignite	6 583 074	7 902 084	7 309 546	6 633 560	6 469 819
Montenegro					
Lignite	1 937 847	1 972 671	1 706 302	1 692 535	1 655 045
Norway					
Bituminous (a)	1 685 000	1 640 000	1 325 000	2 135 000	1 701 000
Poland					
Bituminous	76 727 802	76 447 604	79 854 904	68 399 000	65 969 000
Lignite	56 510 125	62 841 269	64 297 772	66 139 000	64 002 000
Romania					
Anthracite and Bituminous	—	2 121 574	1 876 062	1 839 667	1 619 347
Lignite	28 774 244	33 779 130	31 529 377	22 902 291	23 144 539
Brown coal	62 448	46 071	17 700	—	—

Production continued

tonnes

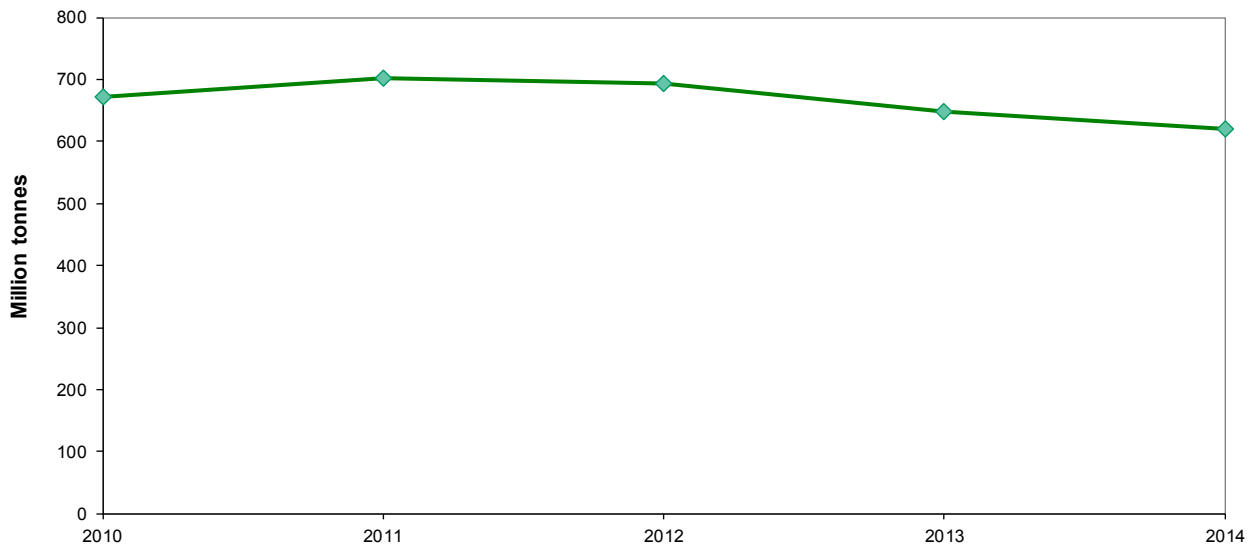
Country	2010	2011	2012	2013	2014
Serbia					
Bituminous	108 000	134 000	141 000	160 000	121 000
Lignite (b)	37 562 840	40 467 132	37 707 017	39 752 741	29 340 000
Brown coal	193 492	349 861	316 507	340 892	354 000
Slovakia					
Lignite	176 000	124 000	136 000	179 000	166 000
Brown coal	2 026 000	1 989 000	1 964 000	2 009 000	1 885 000
Slovenia					
Lignite	4 010 930	4 066 278	3 967 064	3 721 188	3 108 203
Brown coal	419 466	435 800	314 262	50 744	—
Spain					
Anthracite	3 266 041	4 032 683	2 514 649	759 930	1 263 585
Bituminous	2 776 918	1 774 992	1 823 343	1 814 328	1 931 807
Sub-bituminous	2 443 677	2 358 372	1 826 680	1 870 569	1 347 849
Turkey					
Anthracite	6 312 137	5 619 316	3 358 843	* 3 100 000	* 3 100 000
Bituminous	* 3 000 000	3 542 223	3 502 009	2 789 338	* 2 800 000
Lignite	86 943 392	79 968 510	75 036 558	* 75 000 000	* 75 000 000
United Kingdom					
Bituminous (c)	18 347 000	18 552 000	16 967 000	12 767 000	11 648 000
EU36 total	670 600 000	702 600 000	694 200 000	647 800 000	621 100 000

## Notes

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

- (a) Spitzbergen: not including production from mines controlled by Russia  
 (b) Excluding production in Kosovo  
 (c) Including anthracite

EU36 Production of coal (all forms) 2010 - 14



## Coal

## Exports of coal

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Anthracite	1 652 015	1 915 992	1 668 940	1 772 455	1 300 147
Other coal	4 211 655	2 560 811	3 566 699	2 502 987	1 407 064
Lignite	18 781	42 164	51 514	42 225	49 615
Briquettes	18 899	40 374	41 363	55 684	71 817
Bulgaria					
Anthracite	150	2 538	2 731	2 914	2 560
Other coal	76 358	123 691	130 739	129 657	63 232
Lignite	9 525	2 744	635	127	25 357
Croatia					
Hard coal	(a) 1	156	(a) 488	(a) 10 733	(a) 20 914
Czech Republic					
Anthracite	1 126	3 463	3 583	4 144	4 042
Other coal	6 443 306	6 253 274	5 368 575	4 832 928	4 288 594
Lignite	1 019 645	1 071 038	12 779 156	1 186 782	892 800
Briquettes	90 864	103 816	54 148	45 025	61 700
Denmark					
Hard coal	61 612	153 532	(a) 10 585	(a) 80 771	(a) 166 259
Estonia					
Hard coal	(a) 16 452	(a) 2 312	(a) 741	1	0
Finland					
Hard coal (a)	12	32	0	5 270	21
France					
Anthracite	9 551	4 760	11 423	100 873	115 987
Other coal	121 733	113 718	168 068	96 081	161 171
Briquettes	4 495	2 390	109	39	67
Germany					
Anthracite	222 458	165 471	166 704	198 318	169 161
Other coal	31 492	39 712	109 026	52 793	38 926
Lignite	696 279	789 315	1 134 350	919 347	1 030 211
Briquettes	463 102	467 383	450 270	386 161	1 582 748
Greece					
Anthracite	2 073	2 175	1 424	702	1 423
Other coal	1 499	6 478	8 849	8 758	10 821
Lignite	—	10 242	18 262	16 976	—
Briquettes	113	—	8 502	1	—
Hungary					
Anthracite	9 151	5 077	210	11	24
Other coal	683	476	208	42 521	200
Lignite	3 390	4 886	4 539	14 179	24 593
Ireland, Republic of					
Hard coal	5 820	(a) 2 857	18 914	(a) 35 038	27 286
Briquettes	12 695	11 333	12 115	12 113	11 352
Italy					
Anthracite	12 817	17 611	12 841	13 515	19 808
Other coal	1 485	571	53 107	1 953	378
Briquettes	3 923	213	798	45	—
Latvia					
Hard coal (a)	3 136	26 100	13 823	32 847	44 891
Briquettes	3 262	6 402	4 007	2 772	2 483
Lithuania					
Hard coal (a)	33 109	28 271	5 762	33 957	33 623
Montenegro					
Lignite	69 130	48 940	47 778	22 877	27 857
Netherlands					
Anthracite	41 054	303 741	153 370	91 575	41 940
Other coal	7 580 839	10 529 025	12 817 303	11 303 627	8 942 983
Briquettes	144 797	294 637	148 931	14 240	113 965
Poland					
Anthracite	41 908	43 370	37 906	52 188	53 662
Other coal	10 323 041	676 364	5 257 817	10 805 260	8 815 725
Lignite	116 682	145 063	133 531	217 825	302 793
Briquettes	2 114	15 992	1 676	1 637	2 880
Portugal					
Anthracite	7 136	7 405	11 385	9 679	5 189
Other coal	326	17 903	179	357	885

## Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Romania					
Hard coal	(a) 73 002	35 712	19 701	(a) 5 599	(a) 4 835
Lignite	—	1	338	—	37 085
Serbia					
Anthracite	4 434	2 507	160	3 009	60
Other coal	3 801	1 116	441	1 112	857
Lignite	112 009	32 337	28 266	51 729	13 798
Briquettes	8 724	573	53	62 273	39 254
Slovakia					
Anthracite	725	6 198	9 373	7 955	8 213
Other coal	5 128	2 552	10	9 463	1 159
Lignite	55	908	53	18 063	11 737
Briquettes	108	65	6 486	6 953	7 395
Slovenia					
Anthracite	760	2 068	615	1 920	1 003
Other coal	2	200	—	4 999	—
Spain					
Anthracite	337 930	337 833	240 630	351 794	278 244
Other coal	1 149 991	851 716	1 620 047	356 469	1 006 016
Turkey					
Anthracite	717	5 210	5 700	1 356	5 602
Other coal	37 319	802	1 534	4 464	58 088
Lignite	4 554	43 942	48 706	13 204	5 969
United Kingdom					
Anthracite	89 701	97 014	119 826	143 133	81 353
Other coal	615 067	502 581	417 654	456 259	343 800
Briquettes	89 125	117 025	150 783	106 890	108 844

## Notes

(1) This table excludes bunker shipments

(a) Including anthracite

## Imports of coal

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Anthracite	5 023	8 245	9 240	8 729	(a)* 500
Other coal	59 663	82 438	90 273	84 406	(a)* 79 800
Austria					
Anthracite	3 774	5 760	5 932	1 654	2 246
Other coal	3 614 354	3 359 294	3 339 262	3 178 153	3 158 357
Lignite	68 777	74 609	75 705	82 039	95 181
Briquettes	34 999	35 695	26 598	28 482	32 497
Belgium					
Anthracite	2 660 267	3 382 132	2 377 808	2 077 612	1 862 605
Other coal	6 851 382	5 887 514	7 104 464	6 870 834	4 867 631
Lignite	362 257	411 424	425 918	474 879	495 571
Briquettes	27 379	53 793	40 447	60 486	65 614
Bulgaria					
Anthracite	1 858 397	2 203 775	1 132 609	732 939	842 995
Other coal	1 081 783	1 032 074	1 080 540	964 062	939 141
Briquettes	46 754	19	47	24	—
Croatia					
Anthracite	1 325	2 332	234	2 658	4 194
Other coal	1 111 497	1 090 562	874 882	1 178 367	956 749
Lignite	85 413	85 316	44 423	49 158	41 246
Briquettes	1 823	2 302	2 175	6 848	3 142
Cyprus					
Hard coal (b)	7 714	129	164	386	5 170

## Coal

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Czech Republic					
Anthracite	24 471	95 762	121 247	183 417	88 545
Other coal	2 016 443	2 286 190	1 833 669	1 940 720	3 019 631
Lignite	49 426	91 889	350 322	304 216	1 358 543
Briquettes	137 933	157 513	156 682	167 695	135 442
Denmark					
Anthracite	(a)* 21 000	(a)* 6 000	(a)* 6 000	7	308
Other coal	3 670 544	(a)* 7 107 000	(a)* 3 827 000	(a)* 4 516 000	(a)* 4 465 000
Briquettes	7 554	14 768	4 106	3 522	675
Estonia					
Hard coal (b)	77 300	89 422	81 082	58 945	82 302
Finland					
Hard coal (b)	5 919 757	6 972 540	3 954 916	5 064 181	5 436 916
France					
Anthracite	2 291 609	1 304 643	1 527 937	1 766 268	1 072 158
Other coal	16 688 152	14 073 053	16 249 645	16 699 467	13 170 273
Lignite	52 076	82 504	75 621	146 480	154 525
Briquettes	129 465	102 257	164 158	120 067	127 366
Germany					
Anthracite	3 643 048	2 535 881	1 399 126	1 047 216	990 703
Other coal	34 850 251	40 187 648	41 993 809	49 515 475	56 054 138
Lignite	24 400	41 768	28 744	87 355	87 769
Briquettes	404 681	291 675	138 019	137 275	103 926
Greece					
Anthracite	48 783	117 406	21 961	21 083	26 932
Other coal	512 663	169 990	117 867	339 450	178 480
Lignite	87 707	165 417	206 384	163 191	117 979
Briquettes	62	12 986	53 028	61 330	21 867
Hungary					
Hard coal (b)	1 744 778	1 570 645	1 556 689	1 366 089	1 439 839
Lignite	297 335	318 792	224 685	187 326	139 549
Briquettes	14 352	11 018	21 885	31 443	17 784
Iceland					
Anthracite	101 220	103 822	103 989	125 109	100 096
Other coal (a)	* 115 000	* 228 000	* 115 000	* 59 000	* 127 000
Ireland, Republic of					
Anthracite	77 112	33 665	30 564	43 709	35 790
Other coal	1 601 294	2 149 095	2 028 332	2 300 643	1 731 529
Lignite	242	60	21 901	21 901	1 912
Briquettes	31 507	30 673	46 258	91 158	87 980
Italy					
Anthracite	408 391	394 026	266 462	162 364	204 631
Other coal	21 820 370	23 656 907	25 609 289	20 184 762	19 358 211
Briquettes	6 233	3 857	1 905	3 975	3 847
Latvia					
Anthracite	1 273	12 649	5 111	3 903	455
Other coal	180 075	185 516	152 423	132 348	123 639
Lithuania					
Anthracite	3 616	24 260	62 934	3 435	6 713
Other coal	313 355	368 099	256 651	416 369	325 951
Luxembourg					
Anthracite	24 834	16 256	10 994	10 869	10 465
Other coal	76 133	73 322	69 623	62 674	73 527
Lignite	7 090	7 710	8 620	3 483	3 687
Macedonia					
Hard coal (b)	160 162	189 549	233 556	163 242	160 070
Lignite	23 409	42 052	27 024	51 273	27 958
Briquettes	7 623	22 546	18 209	90 103	54 187
Netherlands					
Anthracite	44 958	225 184	257 485	160 206	111 094
Other coal	18 783 491	18 008 920	21 017 984	22 978 921	21 218 149
Lignite	21 933	15 824	22 991	16 285	22 108
Briquettes	132 281	429 514	1 398 836	2 702 367	2 591 227
Norway					
Anthracite (c)	78 387	79 140	78 412	68 231	79 859
Other coal (a)(c)	* 517 000	* 343 000	* 468 000	* 465 000	* 476 000

Imports continued

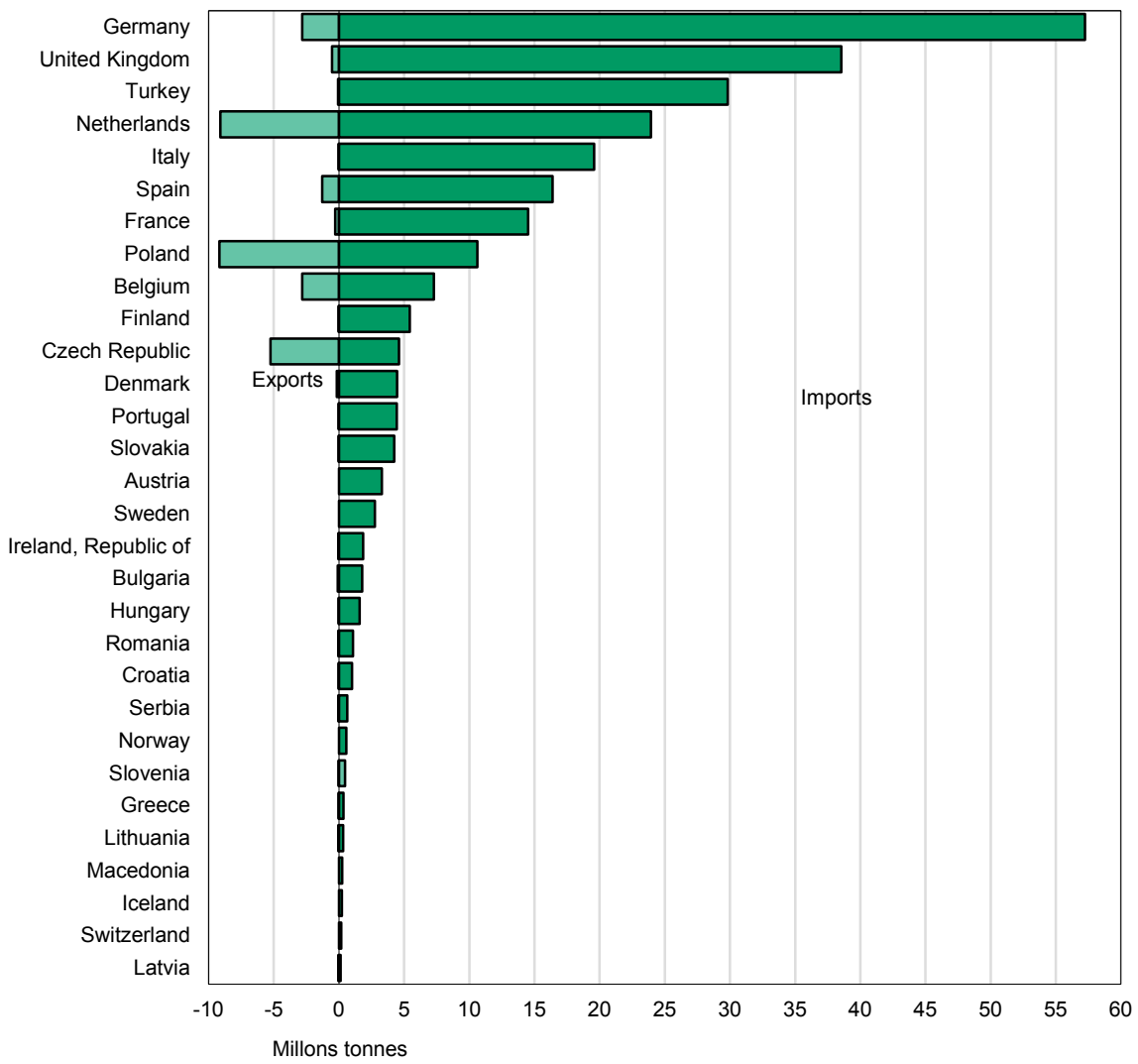
tonnes

Country	2010	2011	2012	2013	2014
Poland					
Anthracite	583 158	582 605	407 120	384 053	318 430
Other coal	13 127 065	14 090 331	9 652 129	10 434 564	10 005 485
Lignite	35 973	67 550	134 135	221 819	204 790
Briquettes	60 548	60 758	53 873	57 782	94 283
Portugal					
Anthracite	21 454	30 860	42 657	32 258	11 883
Other coal	2 648 704	3 592 502	4 999 817	4 182 028	4 419 070
Romania					
Anthracite	72 776	148 260	137 388	143 627	131 807
Other coal	936 727	840 669	1 142 615	785 892	563 641
Lignite	718	1 706	3 492	2 611	387 705
Briquettes	96 428	197	197	511	128
Serbia					
Anthracite	18 056	16 456	13 988	21 017	32 254
Other coal	156 846	183 713	178 984	83 968	133 244
Lignite	307 250	615 026	716 035	321 145	457 613
Briquettes	11 130	8 975	18 239	6 699	4 169
Slovakia					
Anthracite	293 054	713 105	635 877	499 374	609 327
Other coal	3 063 331	3 177 887	3 245 231	3 133 715	3 125 690
Lignite	563 021	534 118	624 731	436 339	463 136
Briquettes	12 799	14 836	16 545	25 808	31 121
Slovenia					
Anthracite	7 898	15 300	8 745	15 621	11 015
Other coal	18 975	15 329	14 920	13 345	11 545
Lignite	544 523	515 659	599 679	496 183	438 744
Spain					
Anthracite	846 015	852 813	594 330	544 040	566 371
Other coal	10 983 379	15 315 861	21 819 298	13 118 931	15 828 967
Sweden					
Anthracite	48 767	38 136	34 827	32 706	33 818
Other coal	3 236 437	2 971 646	2 218 768	2 499 142	2 729 091
Switzerland					
Anthracite	7 164	7 144	12 121	16 400	10 766
Other coal	124 096	92 473	129 051	128 071	29 523
Lignite	62 756	69 378	48 704	59 651	131 895
Briquettes	3 328	2 887	3 750	4 490	2 066
Turkey					
Anthracite	972 425	990 996	854 104	665 244	783 126
Other coal	21 048 121	22 721 500	28 405 516	25 960 988	29 033 299
Lignite	5 339	—	75	7 103	—
United Kingdom					
Anthracite	187 246	193 474	29 186	23 059	111 197
Other coal	23 227 529	31 627 894	42 069 614	44 867 788	38 420 305
Briquettes	11 169	21 142	15 004	14 954	14 733

## Notes

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

Coal - EU36 trade in 2014





## Cobalt

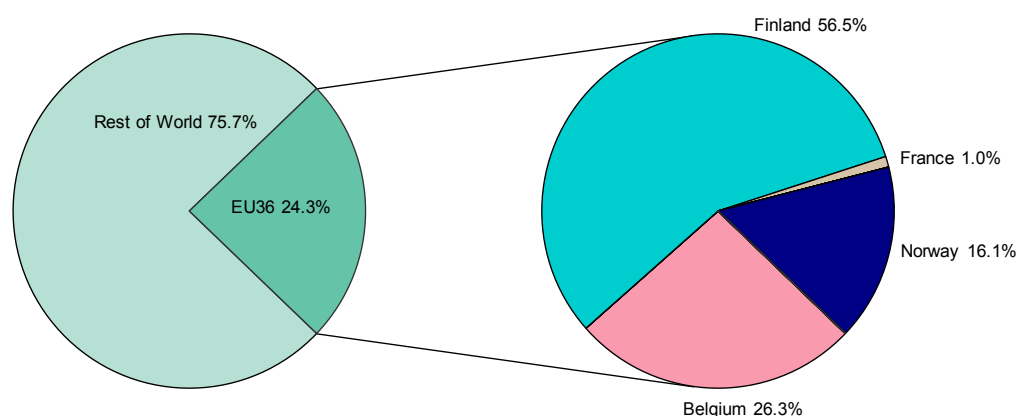
- Cobalt is a lustrous, greyish-silver, brittle metal. It is also very hard and can take a high polish. It retains its strength at high temperatures and is ferromagnetic, which means it is capable of being magnetised. Cobalt is extensively used as an alloying metal and is valued for its ability to produce 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 2014, with 59 per cent of the total world output. The second largest was China (seven per cent), followed by Canada and Australia (five per cent each), Zambia and the Philippines (three per cent each).
- China was the world's largest producer of cobalt metal in 2014, with 43 per cent of the total world output. The second largest was Finland (14 per cent), followed by Belgium and Australia (six per cent each) and Zambia (five per cent).

### Mine production of cobalt

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Finland	* 140	480	* 1 381	2 061	2 104

### EU36 Production of cobalt metal 2014



### Production of cobalt metal

tonnes

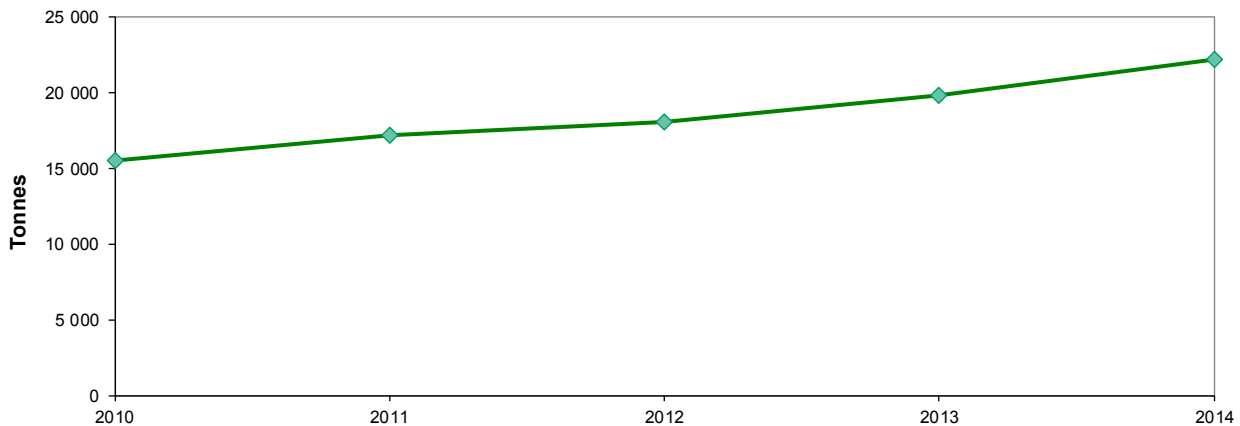
Country	2010	2011	2012	2013	2014
Belgium (a)	2 600	3 187	4 200	5 415	5 850
Finland	9 429	10 627	10 562	10 798	12 551
France	302	354	326	308	219
Norway	3 208	3 067	2 969	3 348	3 582
EU36 total	15 500	17 200	18 100	19 900	22 200

#### Notes

(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

## EU36 Production of cobalt metal 2010 - 14



## Exports of cobalt

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metal	72	60	111	68	48
Belgium					
Ore	633	2 431	362	175	197
Metal (a)	* 4 400	* 2 400	* 2 300	* 2 500	* 2 900
Finland					
Metal (a)	* 3 900	* 4 200	* 6 000	* 5 300	* 6 400
Oxides (a)	* 5 400	* 6 400	* 4 300	* 5 200	* 4 900
France					
Metal	785	1 086	1 100	1 217	1 169
Germany					
Ore	88	—	8	—	175
Metal	1 481	1 393	1 533	1 641	1 981
Oxides	102	113	84	53	122
Ireland, Republic of					
Ore	184	68	177	144	162
Metal	234	125	234	272	310
Italy					
Metal	187	230	177	184	242
Oxides	206	224	188	390	422
Luxembourg					
Metal	1	305	1	1	—
Netherlands					
Metal	1 733	2 062	1 934	2 054	3 260
Oxides	144	67	132	45	21
Norway					
Metal	3 325	3 064	3 059	2 876	3 669
Slovenia					
Metal	65	33	71	96	163
Spain					
Metal	4	25	72	6	11
Oxides	19	14	37	66	123
Sweden					
Metal	220	99	200	364	223
Switzerland					
Metal	80	97	113	125	103
United Kingdom					
Metal	1 780	1 739	1 865	3 136	1 996
Oxides	1 267	820	1 179	1 493	1 434

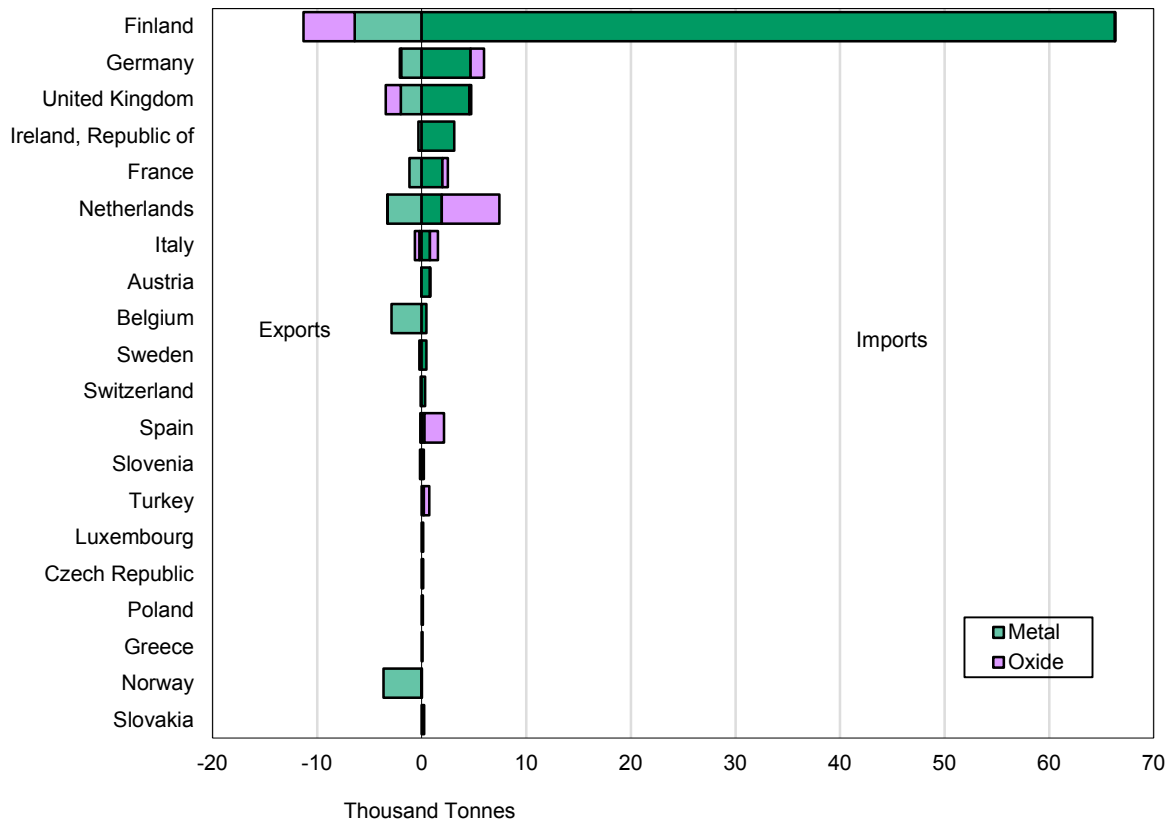
## Notes

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

**Imports of cobalt**

Country	2010	2011	2012	2013	2014
Austria					
Metal	653	718	730	1 363	785
Oxides	10	9	8	54	14
Belgium					
Ore	156	379	349	66	42
Metal	222	368	246	181	454
Bulgaria					
Metal	1	1	1	3	50
Czech Republic					
Metal	60	74	77	83	89
Oxides	20	20	32	57	38
Denmark					
Oxides	19	42	16	0	5
Finland					
Ore	9 867	8 994	7 477	5 352	3 237
Metal	30 623	53 059	54 106	39 435	66 293
Oxides	233	172	298	154	26
France					
Metal	1 681	2 338	2 013	1 533	1 988
Oxides	635	841	611	650	494
Germany					
Ore	115	170	128	76	65
Metal	3 864	4 946	4 505	4 309	4 679
Oxides	1 069	900	878	1 580	1 275
Greece					
Metal	3	17	64	39	65
Ireland, Republic of					
Metal	756	601	743	701	3 117
Italy					
Metal	477	758	609	744	786
Oxides	707	719	679	901	759
Luxembourg					
Metal	163	811	80	113	130
Netherlands					
Metal	962	1 023	1 249	1 581	1 907
Oxides	118	596	16	7	5 516
Norway					
Metal	2 132	684	5 090	2 678	4
Poland					
Metal	52	47	52	48	73
Oxides	18	114	17	20	25
Romania					
Oxides	41	79	27	32	25
Slovakia					
Oxides	137	97	147	144	240
Slovenia					
Metal	141	110	92	206	207
Spain					
Metal	144	159	233	209	259
Oxides	1 543	1 837	1 941	2 053	1 881
Sweden					
Metal	396	571	443	287	442
Switzerland					
Metal	318	298	260	222	320
Turkey					
Metal	145	171	159	190	190
Oxides	199	277	364	384	543
United Kingdom					
Ore	143	124	125	137	151
Metal	5 963	6 093	6 197	5 215	4 560
Oxides	198	256	164	180	160

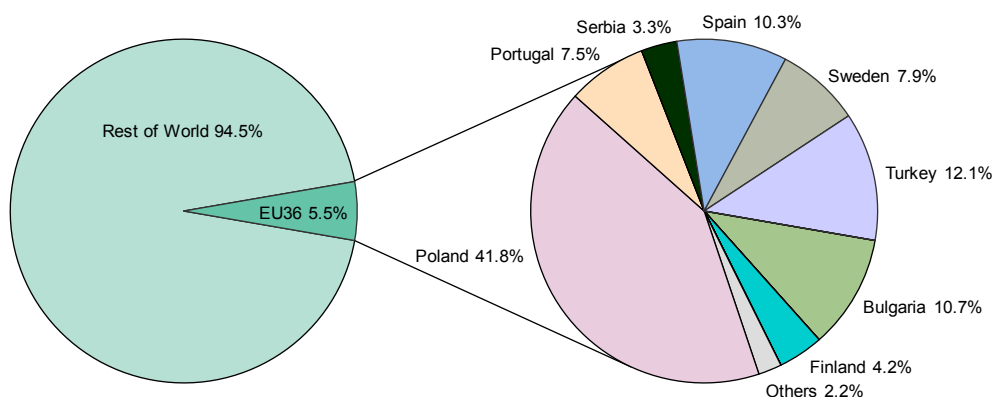
Cobalt - EU36 trade in 2014



## 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 2014, with 31 per cent of the total world output. The second largest was China (nine per cent), followed by Peru and the USA (seven per cent each), and Democratic Republic of Congo (six per cent).
- China was also the world's largest producer of refined copper in 2014, with 34 per cent of the total world output. The second largest was Chile (12 per cent), followed by Japan (seven per cent), USA (five per cent) and Russia (four per cent).

**EU36 Mine production of copper 2014**



### Mine production of copper

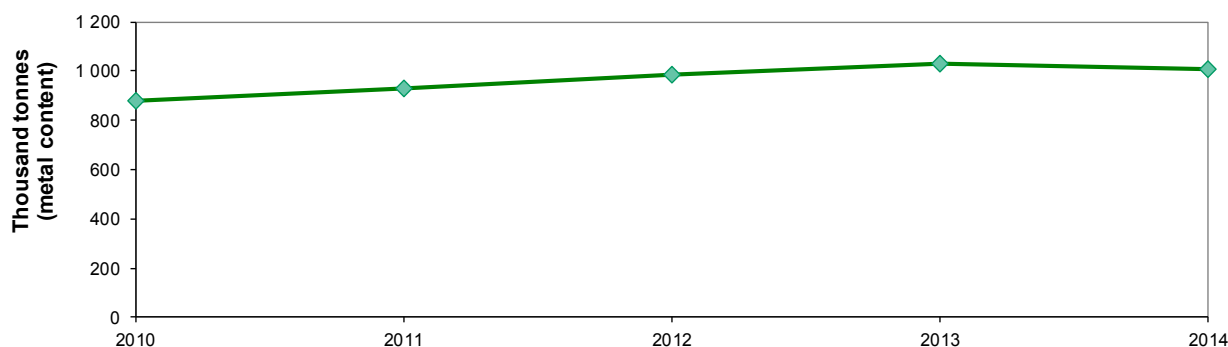
tonnes (metal content)

Country	2010	2011	2012	2013	2014
Albania	2 672	4 379	5 691	5 087	3 503
Bulgaria (a)	112 904	114 603	118 255	115 149	108 300
Cyprus	2 595	3 660	4 328	3 631	3 088
Finland	14 700	14 000	25 446	38 763	42 790
Macedonia	7 912	7 555	9 506	9 802	8 187
Poland	425 725	426 665	427 064	428 879	421 700
Portugal	74 426	79 686	74 043	77 236	75 433
Romania	5 127	6 355	5 902	6 700	7 200
Serbia	22 800	26 100	32 200	36 200	33 739
Slovakia	22	28	31	40	46
Spain	54 335	68 511	97 452	104 600	103 900
Sweden	76 514	82 967	82 422	82 904	79 681
Turkey	79 900	92 500	104 300	120 500	122 000
<b>EU36 total</b>	<b>880 000</b>	<b>927 000</b>	<b>987 000</b>	<b>1 029 000</b>	<b>1 010 000</b>

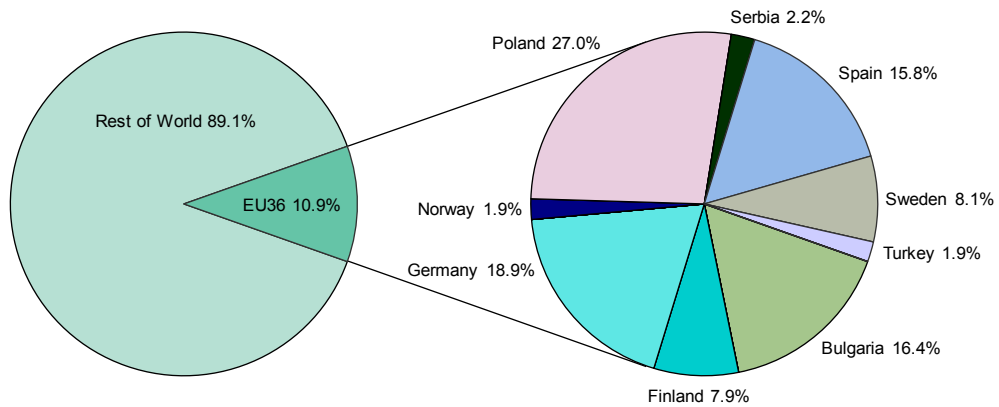
#### Notes

(a) Metal content of ore

**EU36 Mine production of copper 2010 - 14**



**EU36 Smelter production of copper 2014**



**Smelter production of copper**

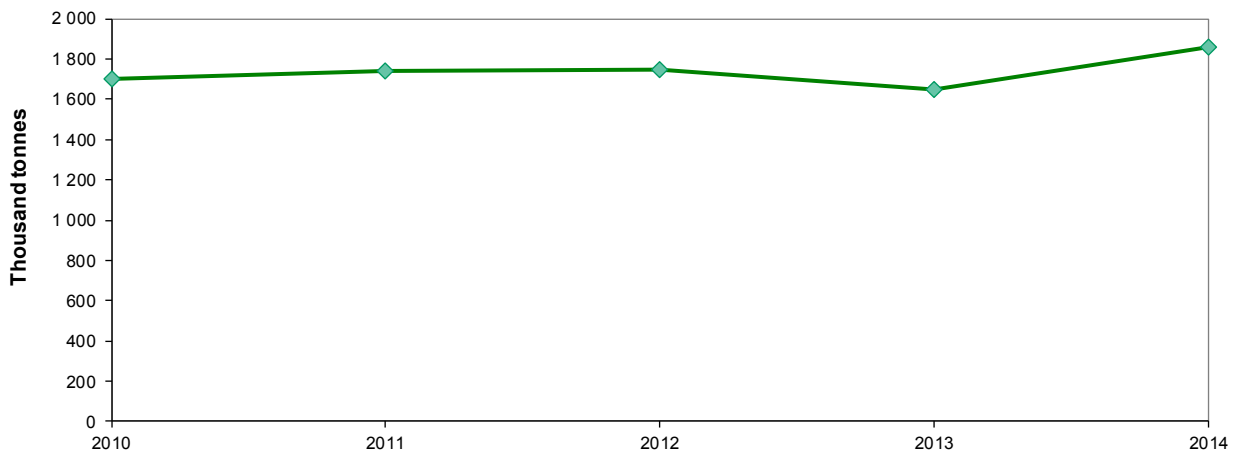
tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	247 300	283 800	269 100	294 000	305 000
Finland	120 528	124 360	129 256	135 840	146 542
Germany	378 700	335 000	352 400	295 200	351 100
Norway	36 200	36 000	37 891	37 461	35 813
Poland	469 656	481 875	466 715	458 789	503 111
Serbia	20 000	28 200	36 800	41 300	40 898
Spain	259 119	260 730	270 200	212 000	294 100
Sweden	141 500	161 500	151 100	140 400	150 000
Turkey	* 25 000	* 30 600	* 35 500	* 35 800	* 35 100
<b>EU36 total</b>	<b>1 698 000</b>	<b>1 742 000</b>	<b>1 749 000</b>	<b>1 651 000</b>	<b>1 862 000</b>

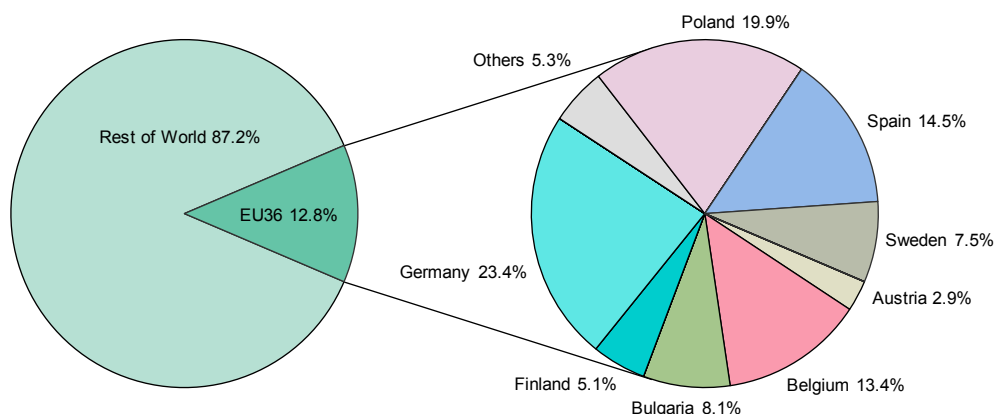
Notes

(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

**EU36 Smelter production of copper 2010 - 14**



### EU36 Production of refined copper 2014



### Production of refined copper

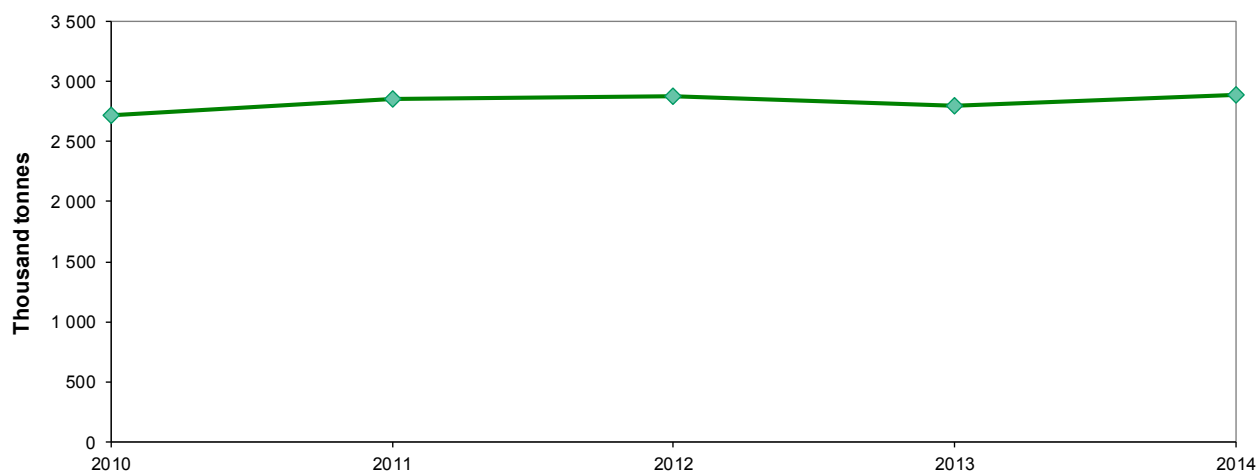
tonnes

Country	2010	2011	2012	2013	2014
Austria	113 700	112 500	113 600	82 842	83 200
Belgium	381 200	394 200	396 700	389 400	387 300
Bulgaria	216 000	226 100	226 000	230 100	234 000
Cyprus	2 595	3 660	4 328	3 631	3 088
Finland	112 687	124 360	129 256	135 840	146 542
Germany	704 300	708 800	682 132	677 600	676 900
Italy	1 800	7 600	7 700	4 900	7 900
Macedonia	—	—	1 100	1 900	1 700
Norway	36 200	36 000	37 891	37 461	35 813
Poland	547 074	571 041	565 834	565 155	576 876
Serbia	22 200	28 400	34 700	35 800	33 175
Spain	347 518	353 790	406 600	351 000	418 500
Sweden	190 497	219 316	214 050	206 193	217 337
Turkey	47 300	74 354	59 673	75 000	71 200
<b>EU36 total</b>	<b>2 723 000</b>	<b>2 860 000</b>	<b>2 880 000</b>	<b>2 797 000</b>	<b>2 894 000</b>

#### Notes

(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

### EU36 Production of refined copper 2010 - 14



## Copper

## Exports of copper

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Ores and concentrates	24 820	31 481	36 482	38 311	205
Scrap	4 953	5 656	5 725	4 613	1 445
Austria					
Unwrought, unrefined	7 636	7 780	1 049	412	234
Unwrought, refined (a)	135 936	129 241	125 425	100 350	91 929
Scrap	52 702	55 454	60 033	50 784	57 316
Belgium					
Ores and concentrates	4 549	2 046	3 242	1 874	696
Matte and cement	6 935	9 042	10 231	13 334	14 382
Unwrought, unrefined	42 836	40 660	27 586	37 012	24 804
Unwrought, refined	189 253	187 595	242 533	230 392	27 574
Unwrought alloys	12 116	11 763	12 436	12 049	12 270
Scrap	141 380	165 713	168 705	144 000	128 467
Bulgaria					
Ores and concentrates	86 171	131 874	204 416	231 388	246 882
Matte and cement	5 048	5 827	4 565	3 967	2 217
Unwrought, unrefined	7 926	10 844	70 347	121 280	116 252
Unwrought, refined	206 309	353 450	(a) 202 925	(a) 199 742	(a) 196 880
Scrap	18 226	12 982	12 318	10 760	8 488
Croatia					
Scrap	13 329	12 597	14 016	11 319	10 669
Cyprus					
Unwrought	2 550	3 660	4 328	3 615	3 088
Scrap	4 619	4 086	5 435	3 511	2 910
Czech Republic					
Unwrought	11 041	10 703	20 225	47 442	24 381
Unwrought alloys	3 515	2 884	1 238	1 331	1 458
Scrap	123 688	85 202	74 592	66 568	68 307
Denmark					
Scrap	30 006	33 289	27 276	29 167	32 745
Estonia					
Unwrought	1 790	744	2 386	860	854
Scrap	6 915	5 171	5 549	5 820	5 733
Finland					
Matte and cement	...	19 610	18 588	28 640	31 335
Unwrought, unrefined	35 132	24 908	29 714	21 400	6 903
Unwrought, refined (a)	58 273	41 887	60 197	60 041	78 185
Scrap	32 819	33 714	32 739	28 583	27 150
France					
Ores and concentrates	847	128	536	2 286	24
Unwrought, unrefined	7 356	9 545	2 430	2 895	1 465
Unwrought, refined	23 258	35 309	39 858	29 397	15 678
Unwrought alloys	12 786	10 624	11 182	11 025	9 990
Scrap	292 631	305 883	317 556	298 873	321 509
Germany					
Ores and concentrates	48 761	54 856	57 074	47 039	51 395
Matte and cement	8 431	9	2	1	1 340
Unwrought, unrefined	104	1 446	2 014	6 688	10 028
Unwrought, refined	136 006	195 181	276 943	225 139	174 312
Unwrought alloys	13 276	12 276	14 578	14 422	14 261
Scrap	578 448	585 346	587 935	516 590	531 195
Greece					
Unwrought	825	4 458	981	852	218
Unwrought alloys	2 097	4 346	969	646	209
Scrap	21 994	18 672	28 705	20 599	14 654
Hungary					
Unwrought, refined	24	786	5 867	10 432	4 448
Unwrought alloys	571	1 120	476	294	630
Scrap	15 319	31 459	37 048	35 024	31 929
Ireland, Republic of					
Scrap	13 172	10 168	10 046	9 601	10 287



Exports continued

Country	2010	2011	2012	2013	2014
Italy					
Matte and cement	61	1	333	1 041	5 550
Unwrought, unrefined	7 290	8 502	7 811	5 612	7 354
Unwrought, refined	8 648	13 506	21 312	12 227	4 818
Unwrought alloys	15 553	20 024	21 264	17 927	20 878
Scrap	167 424	174 068	181 600	172 601	174 345
Latvia					
Unwrought	—	642	4 314	6 428	2 341
Unwrought alloys	722	1 008	1 156	2 053	3 090
Scrap	7 106	13 679	8 494	7 847	7 362
Lithuania					
Unwrought	591	4 873	1 481	1 558	193
Scrap	4 128	5 724	7 582	10 680	14 242
Luxembourg					
Scrap	2 492	2 449	2 449	3 823	2 372
Macedonia					
Ores and concentrates	41 135	39 014	45 119	51 838	42 034
Unwrought	8	8	1 090	1 919	1 459
Scrap	576	2 845	2 221	2 144	2 151
Malta					
Scrap	919	1 096	1 287	736	606
Montenegro					
Scrap	1 769	2 356	1 650	1 705	1 587
Netherlands					
Ores and concentrates	0	0	6 540	56 629	91 185
Unwrought	20 175	34 435	59 260	27 722	25 173
Unwrought alloys	2 379	3 057	2 389	2 497	3 119
Scrap	283 847	315 437	328 463	295 139	326 278
Norway					
Matte and cement	0	2	3 852	2 387	2 728
Unwrought	35 975	36 549	38 146	37 287	37 397
Scrap	37 829	45 889	55 842	57 357	53 906
Poland					
Ores and concentrates	—	1	3	1	27 646
Matte and cement	956	1 567	1 306	1 724	1 053
Unwrought	332 989	327 585	333 648	343 628	308 042
Unwrought alloys	1 180	1 260	2 571	2 279	2 270
Scrap	68 686	60 544	49 128	57 215	64 023
Portugal					
Ores and concentrates	305 485	327 096	312 192	328 240	320 063
Unwrought	1 887	9 969	8 425	248	334
Scrap	24 491	36 151	41 285	36 744	35 130
Romania					
Ores and concentrates	31 582	39 704	41 879	44 995	46 980
Unwrought	797	308	1 603	380	277
Scrap	49 248	54 536	51 844	44 056	39 434
Serbia					
Ores and concentrates	1 666	2 234	4 276	4 158	12 038
Matte and cement	2 501	1 649	358	714	306
Unwrought	10 280	8 840	15 242	19 712	16 823
Unwrought alloys	641	704	370	1 308	1 624
Scrap	12 286	9 991	10 496	7 705	7 961
Slovakia					
Unwrought, unrefined	31 685	38 566	40 404	20 077	27 183
Unwrought, refined	2 597	4 435	2 751	13 189	15 161
Unwrought alloys	1 346	704	619	1 343	2 191
Scrap	15 550	19 522	23 250	25 452	19 682
Slovenia					
Unwrought	7 042	5 847	561	2 135	899
Scrap	29 276	22 126	33 239	25 751	27 958
Spain					
Ores and concentrates	219 996	583 189	528 980	729 177	759 907
Matte and cement	25	17 596	9 413	0	149
Unwrought, unrefined	33 973	36 562	43 244	37 762	42 487
Unwrought, refined	78 030	90 279	146 942	113 585	160 941
Unwrought alloys	15 742	16 039	17 598	16 646	18 408
Scrap	102 236	87 122	159 419	156 511	150 874

## Copper

## Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Sweden					
Ores and concentrates	24	8 010	4 266	4	—
Unwrought	71 394	92 971	105 338	91 292	108 584
Unwrought alloys	8 563	5 615	3 585	4 773	4 738
Scrap	43 311	58 031	58 829	56 469	66 735
Switzerland					
Unwrought	832	1 030	935	1 470	1 779
Scrap	75 973	84 373	86 964	80 104	82 237
Turkey					
Ores and concentrates	421 536	257 914	351 882	428 144	342 957
Unwrought	2 106	2 845	5 701	1 026	1 864
Unwrought alloys	6 764	10 135	7 673	9 101	9 710
Scrap	12 426	5 124	9 226	23 251	17 478
United Kingdom					
Unwrought	9 068	18 145	25 145	17 538	1 198
Unwrought alloys	12 782	16 872	15 441	21 946	19 226
Scrap	421 868	513 394	373 943	291 924	295 741

## Notes

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

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

(a) Including alloys

## Imports of copper

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Unwrought, unrefined	36 218	44 412	42 637	21 970	27 007
Unwrought, refined	10 361	16 680	8 374	5 348	9 555
Unwrought alloys	1 412	1 376	2 183	2 567	2 868
Scrap	145 903	130 675	127 187	102 554	105 905
Belgium					
Ores and concentrates	10 554	13 735	1 278	3 413	3 908
Matte and cement	29 857	41 741	40 104	(a)* 9 000	(a)* 14 000
Unwrought, unrefined	191 159	206 987	181 032	174 338	223 874
Unwrought, refined	61 447	34 734	71 465	59 309	50 215
Unwrought alloys	4 917	5 134	2 971	3 686	2 133
Scrap	272 816	255 661	303 702	307 373	293 141
Bulgaria					
Ores and concentrates	575 192	836 387	756 349	1 008 680	913 418
Matte and cement	13 642	2 006	98	17	84
Unwrought	8 272	12 441	6 982	15 532	14 760
Scrap	35 464	52 461	64 563	56 040	60 453
Croatia					
Unwrought	944	1 627	3 447	2 894	3 063
Czech Republic					
Unwrought	6 846	6 252	16 354	29 583	12 923
Unwrought alloys	3 674	3 388	1 867	2 400	2 663
Scrap	11 804	18 859	18 874	14 107	9 449
Denmark					
Unwrought	1 978	2 255	1 692	2 039	1 980
Scrap	9 125	9 075	7 547	9 477	7 800
Estonia					
Unwrought	520	484	1 480	395	129
Scrap	391	335	508	801	2 001
Finland					
Ores and concentrates	458 174	415 365	424 982	391 822	423 149
Unwrought	4 212	4 711	6 366	2 330	5 284
Unwrought alloys	2 783	2 528	1 819	2 067	2 023
Scrap	6 967	7 726	9 839	7 444	15 832

## Imports continued

Country	2010	2011	2012	2013	2014
France					
Unwrought	227 271	226 312	218 176	230 041	223 666
Unwrought alloys	9 242	9 148	8 200	8 742	6 199
Scrap	72 220	81 824	76 972	63 604	67 840
Germany					
Ores and concentrates	1 128 472	1 124 525	1 215 273	1 013 432	1 185 757
Matte and cement	12 739	2 742	2 415	1 867	3 007
Unwrought, unrefined	23 331	68 147	55 179	112 940	49 093
Unwrought, refined	743 934	737 763	702 577	685 731	664 537
Unwrought alloys	36 249	35 493	37 491	39 025	36 743
Scrap	626 442	647 084	655 895	617 454	657 301
Greece					
Unwrought	63 684	54 258	54 080	54 806	58 503
Scrap	20 017	29 253	43 607	33 690	35 548
Hungary					
Unwrought, unrefined	772	1 272	1 502	1 102	1 114
Unwrought, refined	1 624	2 076	8 281	10 733	4 474
Unwrought alloys	1 241	1 471	1 434	1 036	1 006
Scrap	4 038	5 416	4 831	3 942	3 907
Italy					
Unwrought	628 325	615 251	583 215	559 334	622 721
Unwrought alloys	14 679	15 910	14 795	16 689	18 652
Scrap	129 074	148 358	137 709	151 708	178 256
Latvia					
Unwrought	4	1 074	1 689	90	410
Unwrought alloys	708	1 079	2 621	4 103	1 848
Scrap	2 942	3 855	5 014	8 145	6 402
Lithuania					
Unwrought	596	4 652	1 251	472	618
Scrap	436	634	2 505	5 696	7 662
Luxembourg					
Scrap	10 708	10 061	14 275	11 913	9 110
Netherlands					
Ores and concentrates	40	99	2 529	66 783	29 507
Unwrought, unrefined	7 194	5 502	9	68	9
Unwrought, refined	26 982	41 659	25 369	21 677	18 982
Unwrought alloys	2 101	2 111	1 930	2 982	2 951
Scrap	144 426	204 327	214 211	166 106	147 516
Norway					
Unwrought	4 609	909	704	1 460	1 107
Scrap	9 891	12 856	12 073	11 674	10 891
Poland					
Ores and concentrates	38 000	45 484	41 333	112 568	160 562
Unwrought, unrefined	33 717	23 581	22 766	17 481	13 833
Unwrought, refined	26 944	11 822	19 234	17 078	8 498
Unwrought alloys	2 813	2 939	4 229	2 693	2 718
Scrap	24 316	26 201	53 828	49 205	63 996
Portugal					
Unwrought	5 534	4 725	4 688	5 613	7 613
Unwrought alloys	4 127	4 378	3 993	3 445	3 999
Scrap	8 819	7 973	5 169	6 797	8 104
Romania					
Unwrought	2 282	2 915	1 899	1 997	2 169
Scrap	2 443	3 218	2 355	6 279	2 098
Serbia					
Ores and concentrates	...	3 063	0	(a)* 4 800	(a)* 12 600
Unwrought	37 129	26 995	14 679	8 262	4 152
Scrap	342	769	809	2 259	3 117
Slovakia					
Unwrought	6 153	7 531	8 665	10 099	18 795
Scrap	40 347	30 687	37 623	28 454	34 097
Slovenia					
Unwrought	8 369	7 062	1 287	1 892	1 164
Scrap	22 407	12 350	10 222	8 120	8 878

## Copper

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Spain					
Ores and concentrates	1 229 136	1 482 090	1 517 856	1 575 657	1 788 742
Matte and cement	992	17 530	9 417	4 889	131
Unwrought, unrefined	518	12 747	685	209	347
Unwrought, refined	73 877	62 695	44 567	60 873	44 247
Unwrought alloys	4 014	6 998	4 109	4 549	4 075
Scrap	82 931	89 499	97 129	104 671	114 867
Sweden					
Ores and concentrates	302 514	300 878	310 772	270 120	274 664
Unwrought, unrefined	3 100	5 843	6 690	7 826	6 903
Unwrought, refined	46 383	31 760	30 772	6 906	475
Unwrought alloys	5 181	3 186	2 588	3 222	3 362
Scrap	108 971	121 099	139 188	152 058	103 319
Switzerland					
Unwrought	3 229	2 353	2 006	2 371	2 595
Unwrought alloys	4 137	3 520	3 489	3 495	3 616
Scrap	6 061	4 178	2 244	4 039	4 105
Turkey					
Unwrought, unrefined	5 892	4 329	2 824	478	44
Unwrought, refined	332 482	337 337	348 938	362 854	363 801
Unwrought alloys	6 601	9 450	6 695	2 946	2 617
Scrap	3 943	6 181	3 806	3 663	10 600
United Kingdom					
Unwrought, unrefined	2 039	1 267	147	409	754
Unwrought, refined	40 708	34 627	38 674	34 723	19 339
Unwrought alloys	5 688	5 498	5 957	12 098	4 815
Scrap	27 495	29 010	27 214	25 055	28 243

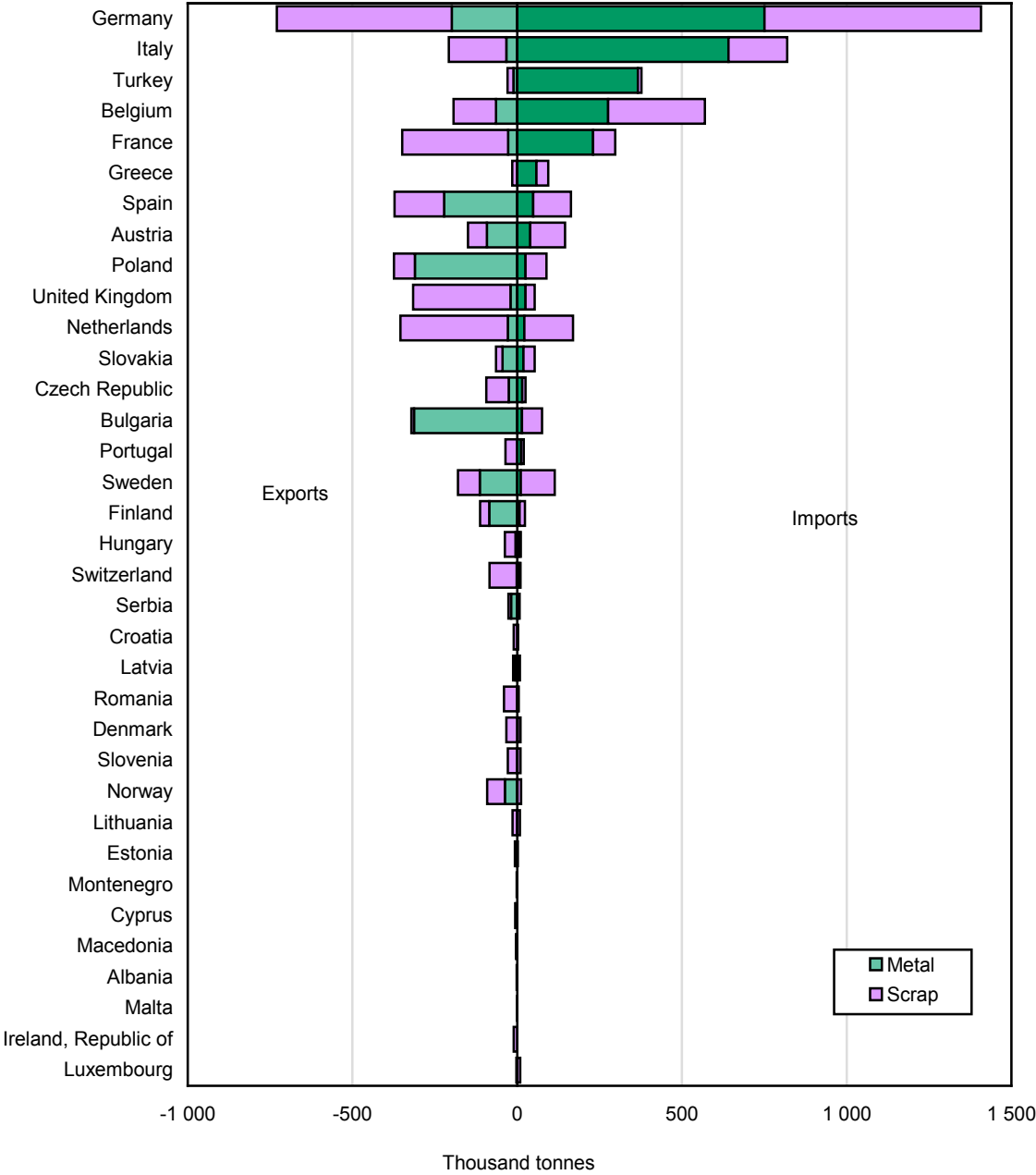
## Notes

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

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

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

Copper - EU36 trade in 2014



## 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 2014, with 31 per cent of the total world output. The second largest is Botswana (with 20 per cent), followed by the Democratic Republic of Congo (12 per cent), Canada (ten per cent), Australia and Angola (seven per cent each).

### Exports of diamond

Country	2010	2011	2012	2013	2014
Austria					
Unsorted	£191 000	£3 305 000	£17 000	...	...
Gem, cut	£3 564 000	£6 211 000	£3 657 000	£2 823 000	£5 864 000
Dust	£225 000	£66 000	£34 000	£122 000	£224 000
Belgium					
Gem, rough	113 000 000	90 500 000	89 000 000	95 000 000	103 000 000
Gem, cut	£4 127 959 000	£4 673 765 000	£3 813 301 000	£4 408 390 000	£3 898 534 000
Industrial	£18 509 000	£21 037 000	£17 642 000	£15 435 000	£12 450 000
Dust	£13 948 000	£12 800 000	£11 590 000	£11 072 000	£10 437 000
Czech Republic					
Gem, cut	£4 465 000	£7 709 000	£6 721 000	£5 038 000	£9 122 000
Denmark					
Unsorted	...	2 875 000	60 000	—	—
Gem, cut	520 000	545 000	360 000	3 500 000	2 500 000
Industrial	90 000	125 000	55 000	65 000	—
Dust	7 625 000	24 850 000	18 500 000	10 000	—
Finland					
Dust	...	20 000	35 000	105 000	10 000
France					
Unsorted	£16 000	£3 017 000	£217 000	£409 000	£674 000
Gem	£109 371 000	£122 385 000	£222 448 000	£175 923 000	£217 138 000
Industrial	£196 000	£70 000	£277 000	£29 000	£137 000
Dust	1 609 470	8 768 911	2 075 000	3 335 000	3 240 000
Germany					
Unsorted (a)	* £863 000	* £489 000	* £283 000	* £3 271 000	* £3 895 000
Gem	161 687	155 370	129 830	126 640	98 997
Dust	7 355 000	13 670 000	15 095 000	16 665 000	18 745 000
Greece					
Unsorted	£43 000	£99 000	£213 000	£789 000	£204 000
Gem	£1 956 000	£405 000	£270 000	£247 000	£75 000
Industrial	£49 000	£20 000	£24 000	£114 000	£146 000
Hungary					
Unsorted	4 000 000	5 500 000	3 500 000	...	—
Dust	...	9 500 000	14 500 000	14 000 000	7 000 000
Ireland, Republic of					
Gem, rough	10 000	100 000	—	5 000	—
Gem, cut	345 000	260 000	600 000	405 000	520 000
Industrial	58 658	2 801 447	460 000	3 170 000	625 000
Dust	65 787 012	283 458 829	...	69 945 000	114 610 000
Italy					
Unsorted	210 000	205 000	2 880 000	* 2 600 000	1 165 000
Gem, rough	15 000	—	120 000	370 000	2 595 000
Gem, cut	243 170	181 572	12 605 000	86 540 000	92 205 000
Industrial	250 000	285 000	1 585 000	18 865 000	11 890 000
Dust	15 054 770	14 873 656	10 850 000	7 825 000	6 280 000
Luxembourg					
Dust	750 900	1 006 960	13 945 000	12 465 000	1 000 000
Netherlands					
Unsorted	£371 000	£1 799 000	£823 000	£308 000	£3 338 000
Gem, cut	£3 132 000	£16 418 000	£8 002 000	£10 206 000	£7 105 000
Industrial	£2 179 000	£1 282 000	£1 508 000	£2 148 000	£269 000
Dust	£51 000	£57 000	£97 000	£794 000	£2 552 000

Exports continued

	Carats				
Country	2010	2011	2012	2013	2014
Portugal					
Gem, cut	£550	£61 000	£136 000	£507 000	£93 000
Industrial	3 500 000	1 000 000	1 500 000	500 000	—
Dust	92 107	788 459	1 000 000	550 000	1 000 000
Slovakia					
Gem, cut	7 000 000	3 000 000	500 000	75 000	65 000
Dust	6 250 000	2 934 017	...	...	—
Spain					
Unsorted	£292 000	£154 000	£490 000	£390 000	£311 000
Gem, rough	...	£500 000	£130 000	£160 000	£153 000
Gem, cut	£7 350 000	£9 802 000	£9 021 000	£11 894 000	£9 086 000
Industrial	£210 000	£590 000	£42 000	£499 000	£82 000
Dust	689 563	8 454 551	21 675 000	23 795 000	12 850 000
Sweden					
Dust	500 000	—	—	...	2 000 000
Switzerland					
Gem, rough	14 892	3 628	5 000	5 000	5 000
Gem, cut	357 976	435 272	145 000	110 000	140 000
Dust	60 980 000	70 880 000	59 620 000	72 175 000	60 575 000
Turkey					
Dust	1 253 750	7 702 486	400 000	10 000	2 070 000
United Kingdom					
Unsorted	3 689 202	2 735 369	2 974 099	11 165 256	14 606 086
Gem, rough	51 769 860	41 541 219	46 117 478	34 651 963	581 879
Gem, cut	283 435	1 292 162	1 702 424	284 182	470 026
Industrial	2 478 568	3 864 054	3 949 553	2 001 018	2 430 399
Dust	113 451 535	42 269 921	32 288 331	28 709 324	19 103 486

## Notes

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

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

## Imports of diamond

	Carats				
Country	2010	2011	2012	2013	2014
Austria					
Unsorted	£729 000	£3 371 000	£203 000	£108 000	£58 000
Gem, cut	£9 838 000	£19 112 000	£10 309 000	£9 666 000	£8 346 000
Industrial	£193 000	£5 500	£149 000	£132 000	£9 600
Dust	30 000 000	38 000 000	30 500 000	44 000 000	28 000 000
Belgium					
Unsorted	£32 253 000	£40 264 000	£39 850 000	£309 925 000	£525 786 000
Gem, rough	63 000 000	67 500 000	54 500 000	64 000 000	75 000 000
Gem, cut	3 000 000	3 000 000	500 000	* 2 260 000	500 000
Industrial	3 000 000	1 000 000	2 500 000	2 000 000	2 000 000
Dust	61 000 000	58 000 000	68 500 000	57 500 000	68 500 000
Bulgaria					
Dust	7 251 395	7 571 255	7 641 000	* 9 090 000	9 000 000
Cyprus					
Gem, cut	£955 000	£976 000	£921 000	£697 000	£647 000
Industrial	£1 007 000	£944 000	£1 474 000	£1 137 000	£1 779 000
Czech Republic					
Gem, cut	5 567	6 796	* 10 000	* 7 000	* 6 000
Dust	£1 704 000	£1 954 000	£2 057 000	£2 229 000	£1 873 000
Denmark					
Unsorted	£255 000	£82 000	£18 000	£94 000	£234 000
Gem, cut	£5 339 000	£5 884 000	£8 897 000	£11 316 000	£13 671 000
Industrial	£59 000	£88 000	£137 000	£105 000	£143 000
Dust	1 663 715	1 189 540	1 205 000	1 360 000	1 630 000

## Diamond

## Imports continued

Carats

Country	2010	2011	2012	2013	2014
Finland					
Unsorted	£419 000	£315 000	£288 000	£228 000	£180 000
Gem, rough	£165 000	£131 000	£111 000	£41 000	...
Gem, cut	£3 575 000	£3 346 000	£3 201 000	£3 018 000	£1 992 000
Industrial	65 000	520 000	20 000	40 000	20 000
Dust	519 830	773 725	645 000	735 000	585 000
France					
Unsorted	9 402	10 015	* 41 800	* 22 900	* 18 500
Gem, rough	£949 000	£698 000	£1 547 000	£914 000	£1 555 000
Gem, cut	468 867	660 561	* 843 000	* 861 000	* 796 000
Industrial	30 480	30 012	* 54 000	* 29 000	* 24 000
Dust	12 512 821	22 167 841	21 135 000	15 530 000	21 025 000
Germany					
Gem	377 399	366 385	314 347	339 116	289 308
Industrial	122 838	143 922	149 572	164 340	92 897
Dust	64 065 000	89 060 000	94 175 000	91 750 000	100 160 000
Greece					
Unsorted	910 000	525 000	135 000	685 000	305 000
Gem, rough	558 241	292 617	* 86 000	* 49 000	...
Gem, cut	7 000 000	2 000 000	4 500 000	4 000 000	1 140 000
Industrial	4 375 000	3 680 000	2 150 000	220 000	380 000
Dust	(a)* 245 000	200 435	(a)* 125 000	(a)* 100 000	(a)* 165 000
Hungary					
Gem, cut	£280 000	£657 000	£421 000	£80 000	£123 000
Industrial	£168 000	£675 000	£346 000	£153 000	£55 000
Dust	(a)* 8 910 000	(a)* 12 690 000	14 500 000	14 000 000	7 000 000
Iceland					
Gem, cut	110 592	90 000	160 000	210 000	230 000
Industrial	* 76 000	125 000	75 000	105 000	70 000
Ireland, Republic of					
Unsorted	£362 000	£320 000	£164 000	£172 000	£1 109 000
Gem, rough	1 565 000	1 620 000	1 595 000	1 475 000	1 480 000
Gem, cut	11 385 000	6 745 000	3 905 000	3 305 000	2 300 000
Industrial	4 585 000	2 570 000	1 545 000	750 000	1 200 000
Dust	86 782 073	737 418 949	358 020 000	405 650 000	526 160 000
Italy					
Unsorted	£8 198 000	£8 652 000	£7 050 000	£9 648 000	£9 302 000
Gem, rough	60 000	115 000	175 000	28 050 000	38 335 000
Gem, cut	£285 718 000	£370 521 000	£338 455 000	£347 587 000	£429 445 000
Industrial	£7 993 000	£7 254 000	£4 318 000	£8 721 000	£9 094 000
Dust	196 860 000	248 520 000	252 160 000	306 965 000	395 715 000
Luxembourg					
Unsorted	£20 000	£248 000	£262 000	£38 000	£23 000
Gem, cut	£418 000	£533 000	£861 000	£2 332 000	£1 664 000
Industrial	105 000	35 000	860 000	360 000	330 000
Dust	£609 000	£471 000	£562 000	£552 000	£491 000
Montenegro					
Dust	45 000	...	...	...	10 000
Netherlands					
Unsorted	£80 000	£192 000	£144 000	£885 000	£171 000
Gem, cut	£15 248 000	£35 316 000	£30 128 000	£33 465 000	£22 637 000
Industrial	£624 000	£1 393 000	£1 392 000	£2 340 000	£1 245 000
Dust	290 475	2 074 815	820 000	14 150 000	30 820 000
Norway					
Gem, cut	8 545	5 284	* 4 400	* 6 800	* 6 500
Industrial	160 000	140 000	285 000	130 000	340 000
Dust	...	...	115 000	55 000	10 000
Poland					
Unsorted	£208 000	£24 000	£289 000	£22 000	£286 000
Gem, cut	£2 128 000	£3 805 000	£2 532 000	£3 111 000	£4 680 000
Dust	£179 000	£273 000	£376 000	£388 000	£273 000
Portugal					
Gem, cut	£2 039 000	£3 732 000	£2 532 000	£2 414 000	£2 246 000
Industrial	£111 000	£122 000	£86 000	£65 000	£21 000
Dust	9 509 385	10 215 655	5 245 000	4 775 000	8 930 000



## Imports continued

Carats

Country	2010	2011	2012	2013	2014
Serbia					
Dust	550 000	885 000	425 000	580 000	485 000
Slovakia					
Gem, rough	£600 000	£406 000	£923 000	£57 000	£645 000
Gem, cut	£2 530 000	£2 720 000	£6 610 000	£2 750 000	£913 000
Industrial	55 000	1 037 208	* 10 000	40 000	15 000
Dust	18 560 000	325 000	* 600 000	160 000	275 000
Slovenia					
Dust	1 656 306	1 423 460	990 000	1 280 000	1 040 000
Spain					
Unsorted	£1 814 000	£3 864 000	£2 441 000	£2 139 000	£3 635 000
Gem, rough	£312 000	£276 000	£487 000	£207 000	£303 000
Gem, cut	£26 488 000	£25 312 000	£24 197 000	£25 904 000	£24 854 000
Industrial	£275 000	£605 000	£774 000	£580 000	£1 174 000
Dust	27 500 320	27 699 364	* 19 429 000	* 19 405 000	* 18 568 000
Sweden					
Unsorted	£125 000	£105 000	£178 000	£128 828	£148 000
Gem, cut	9 615	12 118	* 8 000	* 8 000	* 8 000
Industrial	26 277	5 390	* 8 100	* 12 000	* 23 000
Dust	8 000 000	9 500 000	22 000 000	61 500 000	67 500 000
Switzerland					
Gem, rough	20 460	3 263	5 000	10 000	5 000
Gem, cut	840 245	1 227 118	1 185 000	1 280 000	1 195 000
Dust	74 015 000	101 250 000	82 185 000	103 905 000	80 765 000
Turkey					
Gem	131 146	141 277	2 080 000	1 270 000	2 175 000
Industrial	46 890	82 417	65 000	90 000	170 000
Dust	25 190 000	31 125 000	36 995 000	34 835 000	36 360 000
United Kingdom					
Unsorted	8 703 907	8 484 526	9 238 531	12 754 564	14 833 453
Gem, rough	40 559 260	38 472 604	33 227 748	29 495 262	823 336
Gem, cut	761 455	18 292 931	7 009 031	1 494 267	5 254 159
Industrial	7 299 364	10 236 376	7 747 613	6 399 457	4 270 299
Dust	111 136 020	32 411 894	26 886 717	25 157 153	25 481 253

## Notes

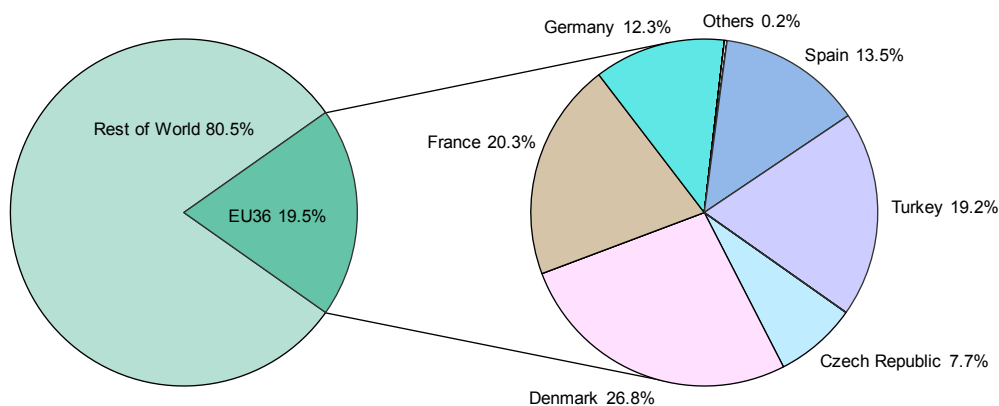
- (1) Carats have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national figure has been converted to £ sterling
- (2) See explanatory notes at the front of the volume regarding currency conversion
- (3) In this table the term 'Dust' corresponds 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 2014, with 35 per cent of the total world output. The second largest was China (19 per cent), followed by Peru (seven per cent) and Denmark (five per cent).

**EU36 Production of diatomite 2014**



## Production of diatomite

tonnes

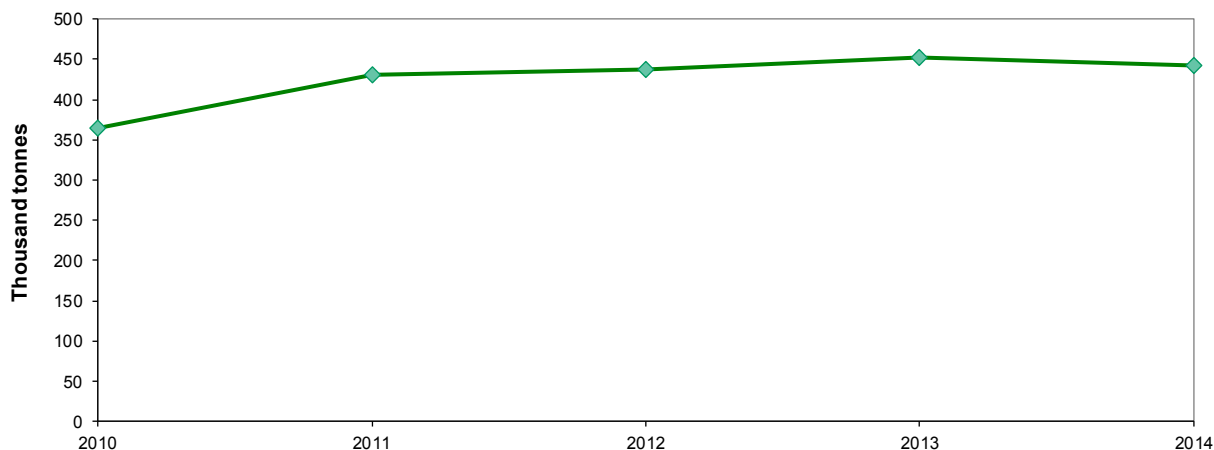
Country	2010	2011	2012	2013	2014
Czech Republic	32 000	46 000	43 000	49 000	34 000
Denmark					
Moler (a)	124 000	126 000	111 000	128 125	118 750
France	* 75 000	* 75 000	* 85 000	* 85 000	* 90 000
Germany	49 306	52 698	50 036	51 435	54 277
Hungary	1 197	1 309	1 229	456	* 500
Poland	1 000	580	600	600	590
Spain (b)	64 346	83 624	60 777	53 713	59 619
Turkey	18 448	45 187	86 403	84 751	* 85 000
<b>EU36 total</b>	<b>365 000</b>	<b>430 000</b>	<b>438 000</b>	<b>453 000</b>	<b>443 000</b>

### Notes

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

(b) Including Tripoli

**EU36 Production of diatomite 2010 - 14**



**Exports of diatomite**

tonnes

Country	2010	2011	2012	2013	2014
Austria	3 467	2 756	3 550	3 275	3 166
Belgium	3 004	3 122	2 690	3 566	3 547
Czech Republic	4 231	5 182	6 751	7 031	8 438
Denmark (a)	* 57 300	* 56 800	* 42 700	* 55 700	* 57 000
France	26 822	25 420	25 245	22 688	23 393
Germany	5 361	14 251	22 190	27 103	29 410
Italy	6 716	2 226	1 229	1 458	1 373
Lithuania	551	615	234	280	254
Netherlands	359	633	807	864	604
Poland	111	788	3 012	5 823	1 430
Portugal	7 545	7 299	11 538	18 246	23 028
Spain	7 382	6 655	10 384	4 271	5 730
Sweden	829	1 098	1 214	1 116	1 138
Switzerland	453	564	629	447	266
Turkey	37 432	28 104	36 985	55 673	46 832
United Kingdom	1 650	797	659	497	734

## Notes

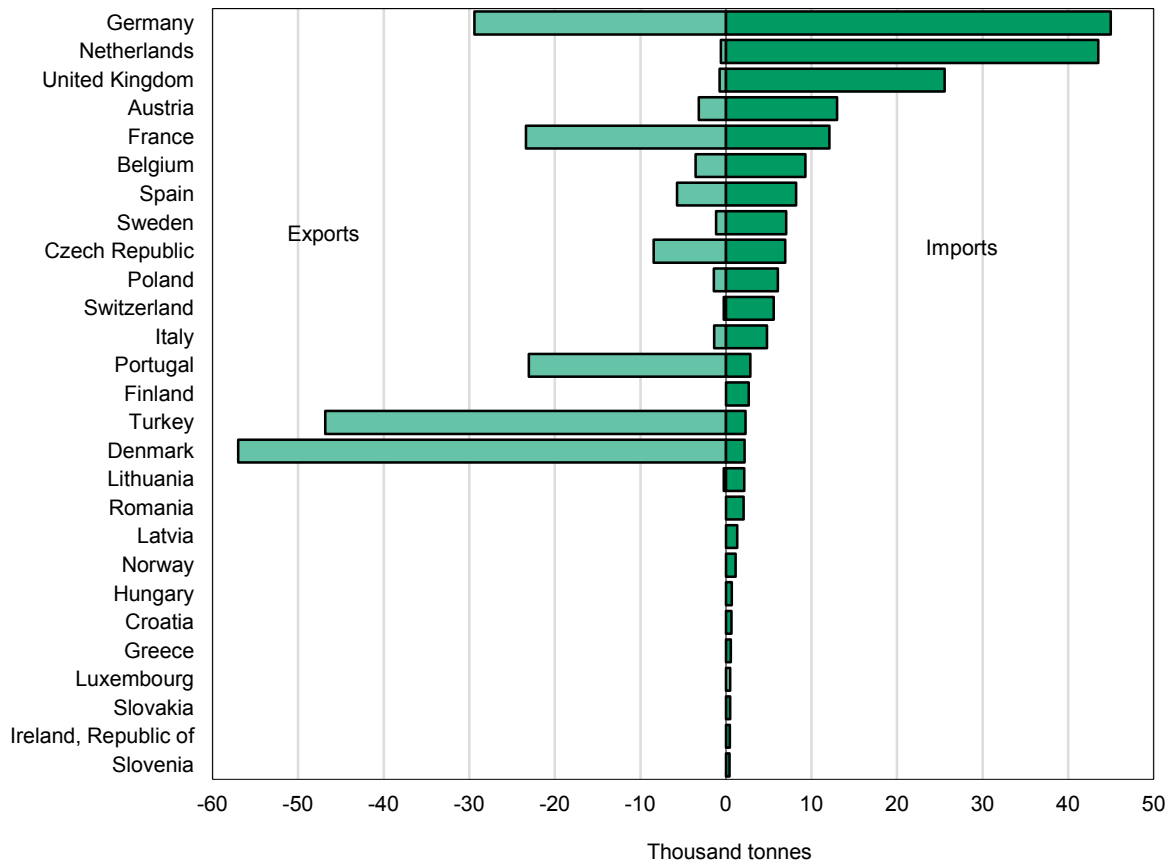
(a) BGS estimates, based on known imports into certain countries

**Imports of diatomite**

tonnes

Country	2010	2011	2012	2013	2014
Austria	13 324	12 798	12 452	12 827	12 983
Belgium	11 813	10 815	7 143	7 753	9 287
Croatia	402	555	616	598	652
Czech Republic	2 753	3 263	3 829	3 694	6 927
Denmark	3 294	4 165	3 056	2 998	2 181
Finland	4 367	3 432	3 426	2 724	2 672
France	17 477	14 098	13 279	11 150	12 086
Germany	43 487	39 892	42 122	43 006	44 967
Greece	668	623	647	424	557
Hungary	957	1 189	885	649	689
Ireland, Republic of	640	699	965	683	439
Italy	3 920	5 555	5 091	4 571	4 792
Latvia	412	805	812	836	1 310
Lithuania	744	1 174	865	1 187	2 136
Luxembourg	7 858	7 394	129	48	498
Netherlands	4 641	6 034	6 232	6 445	43 518
Norway	842	808	867	937	1 130
Poland	6 753	9 365	7 802	6 980	6 068
Portugal	2 284	2 340	2 242	2 702	2 840
Romania	2 269	2 459	1 827	2 583	2 046
Slovakia	784	415	461	498	473
Slovenia	718	623	397	394	414
Spain	8 203	8 026	7 368	6 480	8 202
Sweden	8 099	8 247	7 532	7 410	7 037
Switzerland	5 758	4 642	5 177	5 634	5 578
Turkey	1 319	1 702	2 124	2 247	2 290
United Kingdom	18 649	20 042	19 752	19 713	25 542

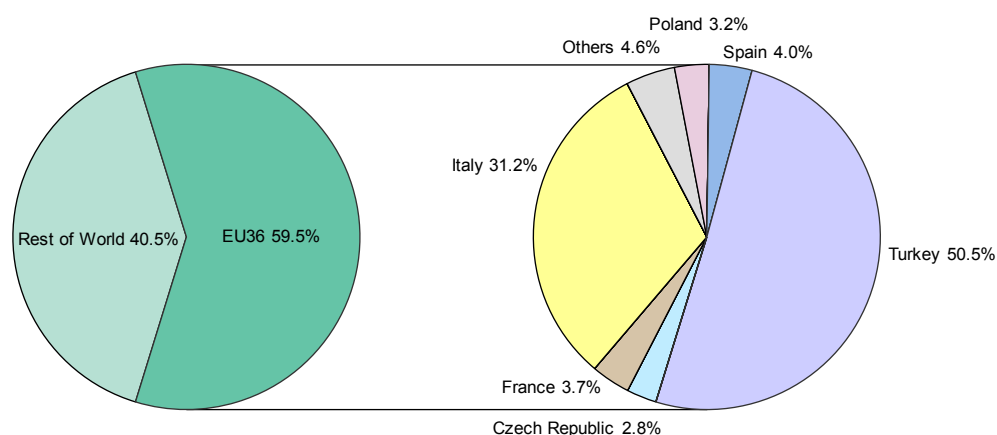
Diatomite - EU36 trade in 2014



## 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 2014, with 30 per cent of the total world output. The second largest was Italy (19 per cent), followed by China (eight per cent), India (seven per cent) and Thailand (six per cent).

**EU36 Production of feldspar 2014**



## Production of feldspar

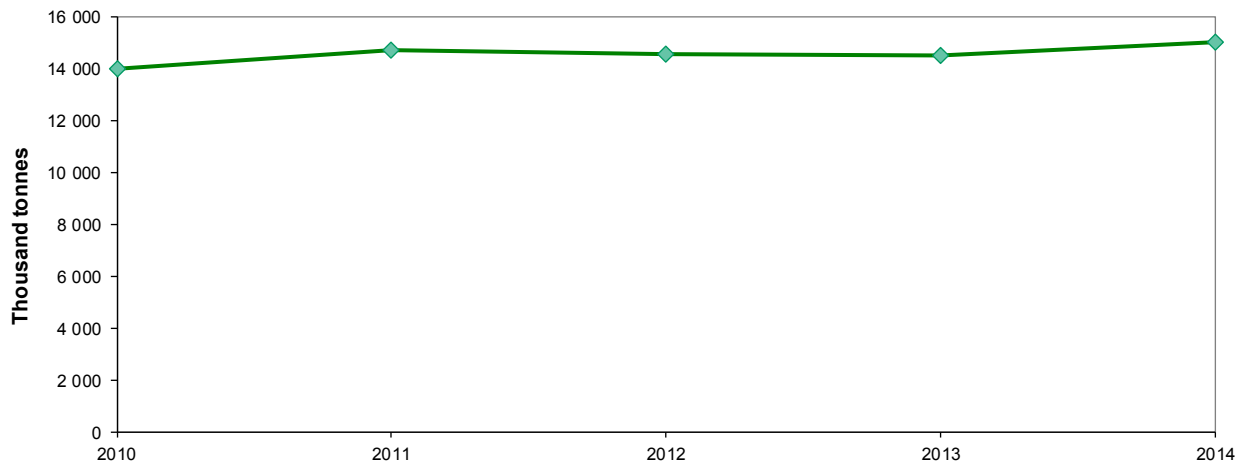
tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
Czech Republic	388 000	407 000	445 000	411 000	422 000
Finland	28 013	26 292	43 124	47 636	46 233
France	* 650 000	* 600 000	* 600 000	* 550 000	* 550 000
Germany	350 000	350 000	350 000	* 350 000	* 350 000
Greece	23 050	10 200	13 000	—	—
Italy	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000
Macedonia	23 188	25 032	17 168	15 168	18 076
Norway	56 000	25 271	—	—	154
Poland	513 700	538 800	487 200	483 000	* 485 000
Portugal (a)	169 722	187 159	167 287	138 715	136 440
Romania	6 049	3 814	4 112	7 060	7 570
Serbia	253	23 586	19 927	* 20 000	* 20 000
Slovakia	—	—	—	5 000	6 000
Spain	691 894	662 418	530 238	592 908	* 600 000
Sweden	22 000	30 000	27 000	30 000	27 000
Turkey	6 281 597	7 076 068	7 076 068	7 090 677	7 609 692
<b>EU36 total</b>	<b>13 983 000</b>	<b>14 746 000</b>	<b>14 560 000</b>	<b>14 521 000</b>	<b>15 058 000</b>

### Notes

(a) Includes feldspathic sand

## EU36 Production of feldspar 2010 - 14



## Exports of feldspar

tonnes

Country	2010	2011	2012	2013	2014
Austria	13 474	11 807	11 452	11 488	10 668
Belgium	64	317	417	2 830	170
Bulgaria	19 087	19 329	19 414	19 433	18 530
Czech Republic	129 715	166 859	171 207	173 282	164 127
Finland	31 844	31 700	47 889	42 359	94 084
France	226 149	226 934	207 687	167 806	197 618
Germany	78 610	76 300	70 936	91 047	92 144
Greece	1 119	1 562	1 279	5 064	(a)* 8 600
Italy	194 763	288 246	220 404	261 124	235 591
Macedonia	21 924	25 111	14 857	15 477	17 675
Netherlands	105	112	281	228	533
Norway	55 637	30 617	4 821	9 146	5 698
Poland	3 050	3 012	1 376	1 222	898
Portugal	2 190	3 197	17 482	29 205	24 563
Romania	1	283	260	301	329
Slovakia	...	58	1	1 532	4 857
Slovenia	47	52	—	128	384
Spain	69 337	71 940	63 644	81 429	99 009
Sweden	11 251	19 258	16 831	14 081	21 413
Turkey	3 759 104	3 973 160	4 107 038	4 139 071	4 629 112

## Notes

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

## Imports of feldspar

tonnes

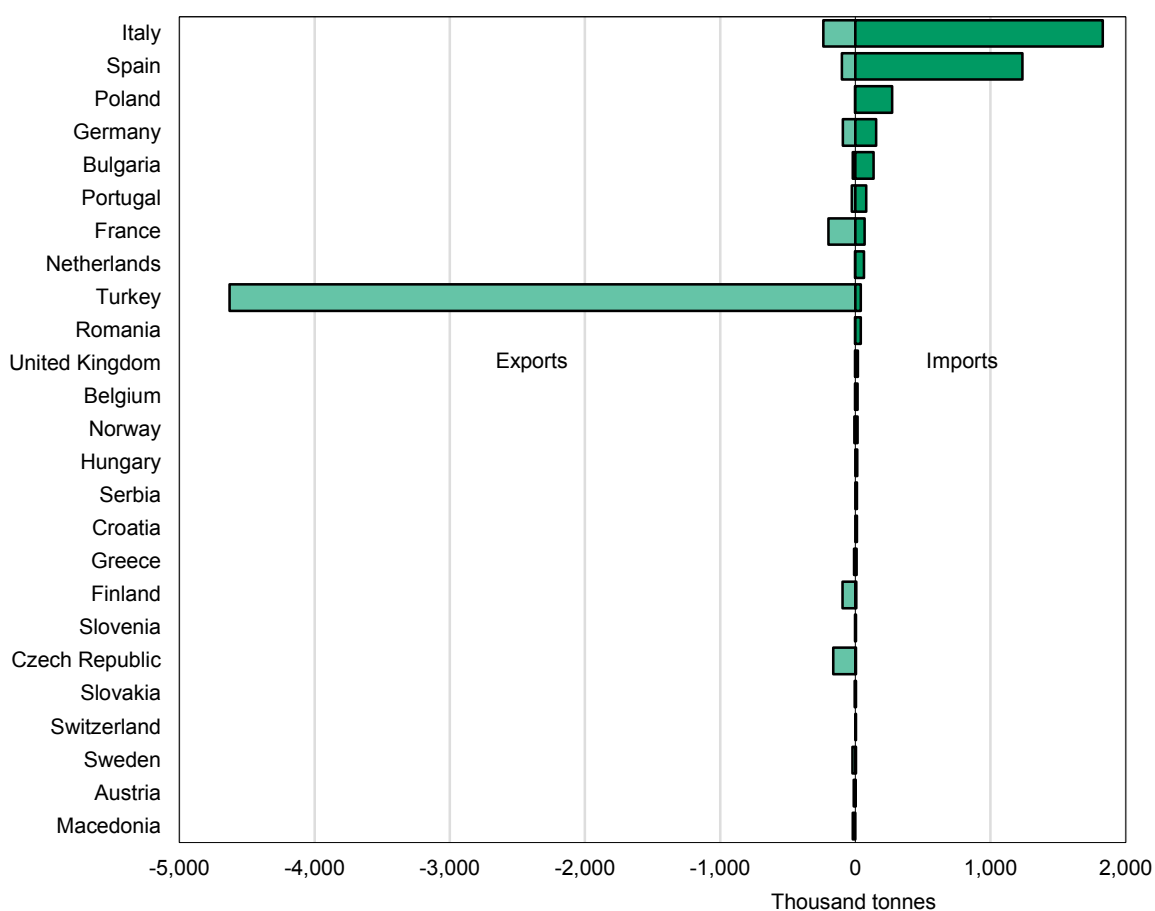
Country	2010	2011	2012	2013	2014
Austria	2 433	2 804	2 442	2 094	2 468
Belgium	24 495	22 623	17 062	18 181	17 998
Bulgaria	86 861	86 056	84 230	110 954	135 195
Croatia	14 763	14 001	11 676	11 503	12 223
Czech Republic	6 298	6 527	4 735	5 920	5 575
Denmark	1 211	2 612	45	2	1 259
Estonia	94	109	17 881	2 477	88
Finland	1 209	1 217	4 902	5 660	8 333
France	31 721	34 907	36 109	50 725	70 019
Germany	139 663	153 713	109 157	129 123	155 411
Greece	12 195	9 469	20	6 128	8 643

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Hungary	14 235	14 211	13 905	10 755	15 329
Italy	1 951 827	1 954 499	1 905 805	1 855 315	1 831 264
Latvia	577	561	1 292	1 522	1 114
Lithuania	6 265	10 278	6 700	1 405	1 478
Netherlands	15 721	9 071	57 431	85 487	64 185
Norway	16 413	18 228	14 322	15 794	17 151
Poland	243 645	324 426	287 882	288 728	272 111
Portugal	63 675	49 902	61 516	79 625	80 517
Romania	36 924	45 421	47 688	39 447	41 451
Serbia	10 139	11 864	11 302	9 794	13 208
Slovakia	5 886	5 590	5 518	5 809	5 499
Slovenia	14 954	13 168	6 012	5 963	5 782
Spain	856 406	993 378	926 809	1 092 403	1 235 414
Sweden	6 410	4 363	547	3 803	4 140
Switzerland	6 593	6 124	4 575	4 504	5 268
Turkey	39 953	34 726	47 361	39 456	41 695
United Kingdom	17 584	16 750	21 610	24 568	19 154

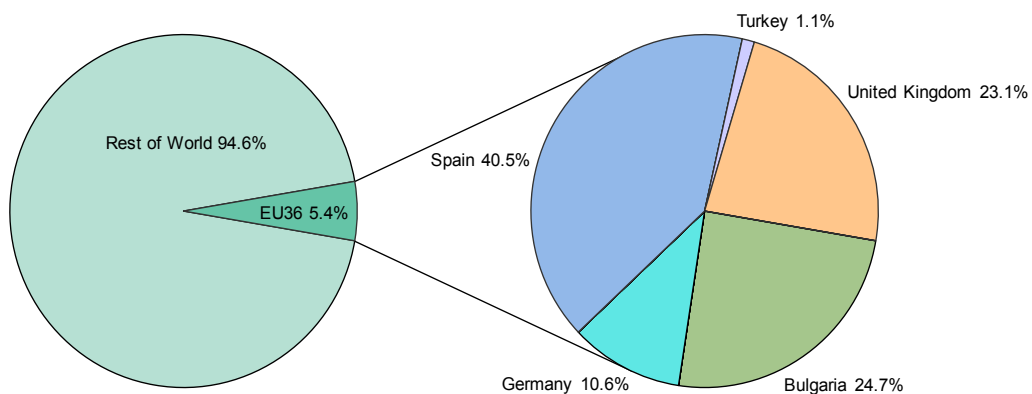
## Feldspar - EU36 trade in 2014



## 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 2014, with 58 per cent of the total world output. The second largest was Mexico (18 per cent), followed by Mongolia (five per cent) and South Africa (four per cent).

**EU36 Production of fluorspar 2014**

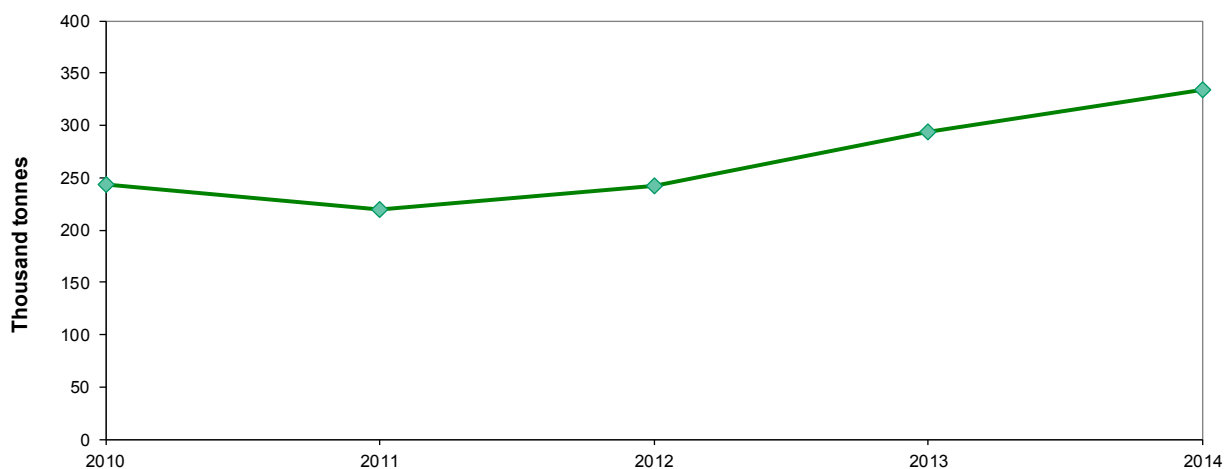


## Production of fluorspar

tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	10	31 800	69 700	82 500	* 82 500
Germany	59 086	65 619	54 202	48 744	35 270
Spain	132 341	117 063	113 570	128 512	135 293
Turkey	25 189	4 524	5 197	3 874	* 3 800
United Kingdom	26 420	—	—	30 000	77 000
<b>EU36 total</b>	<b>243 000</b>	<b>219 000</b>	<b>243 000</b>	<b>294 000</b>	<b>334 000</b>

**EU36 Production of fluorspar 2010 - 14**





**Exports of fluorspar**

tonnes

Country	2010	2011	2012	2013	2014
Belgium	122 483	118 782	147 771	106 343	90 782
Bulgaria	821	33	60	986	4 670
Czech Republic	10 575	10 564	9 634	10 722	9 683
Germany	33 487	45 955	38 029	37 087	31 758
Italy	6 740	28 942	48 048	54 013	67 401
Netherlands	14 023	28 870	19 488	16 659	34 470
Poland	22	10	—	31	336
Spain	1 680	3 312	5 519	12 754	5 735
Sweden	8 101	11 053	13 714	11 668	10 106
Turkey	174	243	244	357	726
United Kingdom	412	590	75	16 127	49 078

**Imports of fluorspar**

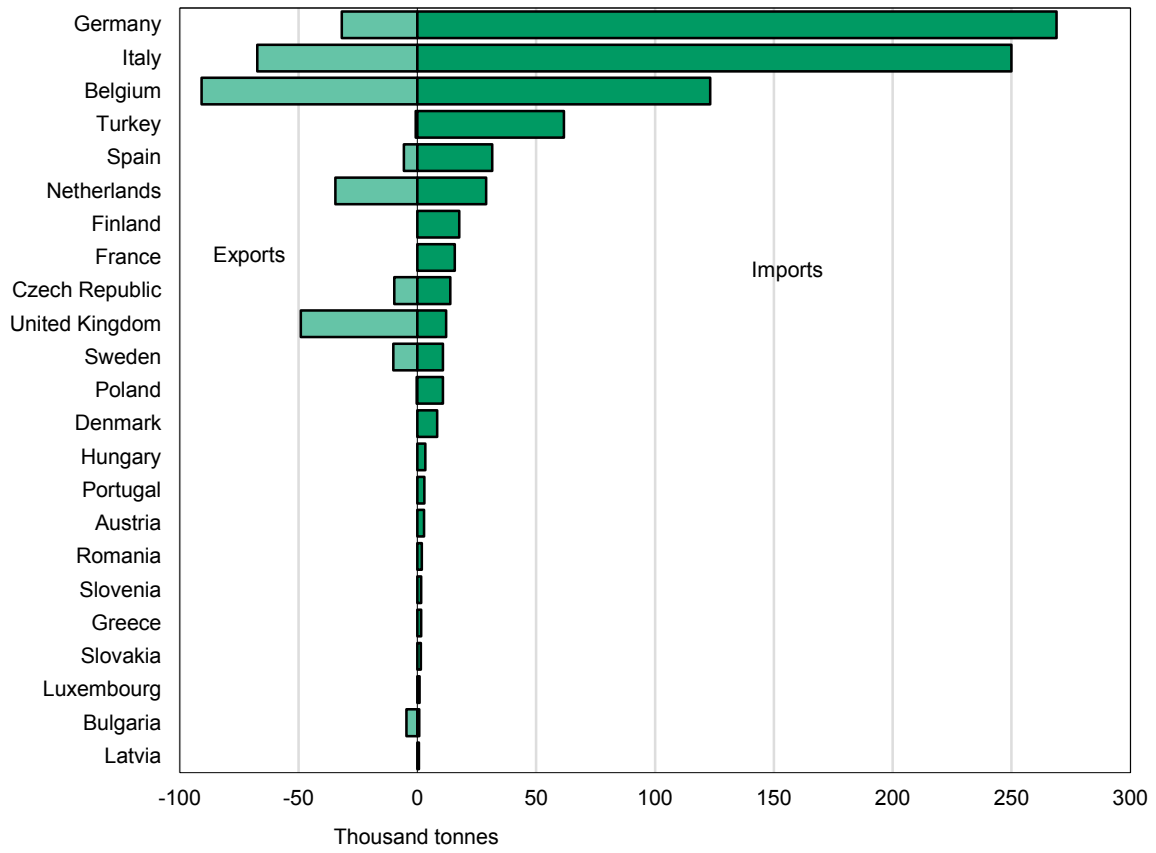
tonnes

Country	2010	2011	2012	2013	2014
Albania	350	650	55	500	* —
Austria	3 490	2 911	2 935	2 847	2 738
Belgium	134 266	145 776	173 038	119 747	123 193
Bulgaria	700	1 742	1 262	421	737
Croatia	146	3 527	15 513	18 082	35
Czech Republic	14 495	15 547	15 388	17 129	13 911
Denmark	13 086	22 462	16 043	11 860	8 258
Finland	16 740	17 605	16 818	15 398	17 582
France	14 601	14 655	15 879	15 453	15 795
Germany	261 999	380 027	280 867	249 532	268 879
Greece	2 652	3 073	2 104	1 349	1 606
Hungary	2 662	4 152	3 014	3 984	3 326
Italy	200 184	246 374	232 908	232 279	249 889
Latvia	678	775	1 269	811	598
Luxembourg	983	887	795	739	937
Macedonia	350	600	244	122	223
Netherlands	14 294	23 603	11 725	26 299	28 875
Poland	11 013	12 239	11 747	9 106	10 698
Portugal	1 384	2 350	3 234	3 291	2 894
Romania	2 911	3 817	3 178	1 475	1 880
Slovakia	954	762	896	820	1 484
Slovenia	1 754	1 463	1 481	1 586	1 656
Spain	12 008	14 198	16 542	23 713	31 466
Sweden	9 451	14 980	10 729	6 815	10 717
Switzerland	492	210	181	111	111
Turkey	37 977	48 210	53 627	56 451	61 641
United Kingdom	1 294	45 327	19 739	(a)* 15 600	(a)* 12 100

## Notes

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

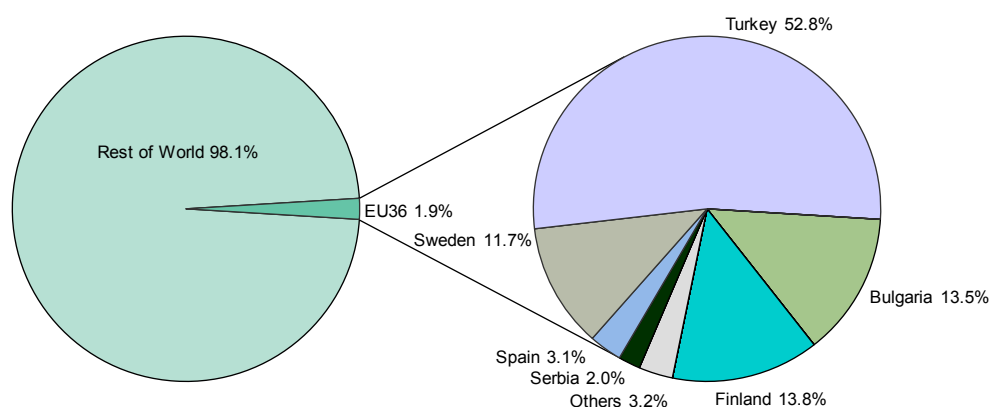
### Fluorspar - EU36 trade in 2014



## 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 2014, with 15 per cent of the total world output. The second largest was Australia (nine per cent), followed Russia (eight per cent), USA (seven per cent), Canada, South Africa and Peru (five per cent each).

**EU36 Mine production of gold 2014**



## Mine production of gold

kilograms

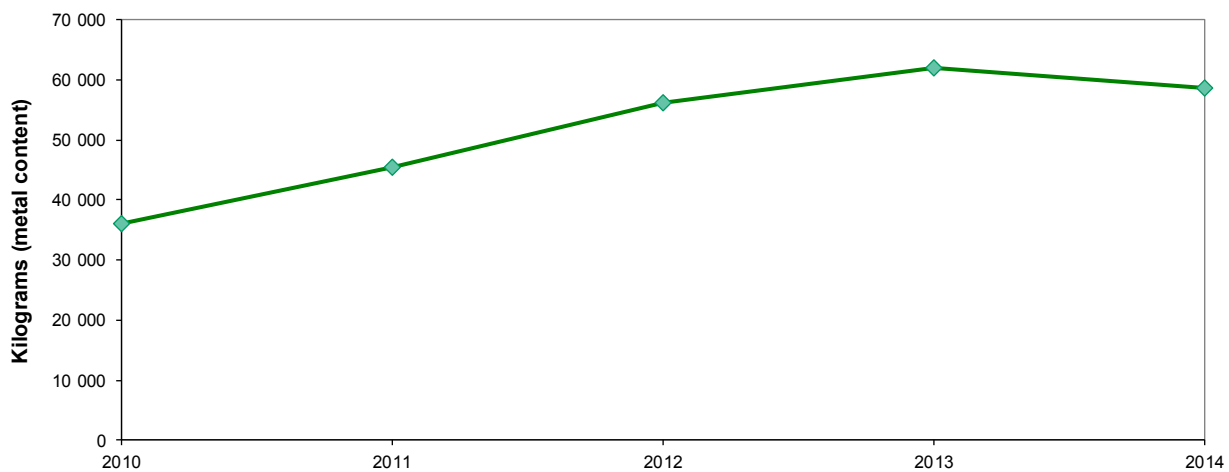
Country	2010	2011	2012	2013	2014
Bulgaria	4 489	5 302	7 058	7 385	7 899
Finland	5 896	6 674	9 100	8 660	8 085
Greece	—	—	26	823	552
Poland	500	400	469	431	226
Romania	* 500	* 500	* 500	* 500	* 500
Serbia (a)	856	1 534	1 400	1 154	* 1 200
Slovakia	534	398	546	533	582
Spain	—	529	1 529	1 994	1 800
Sweden	6 285	5 994	6 015	6 530	6 849
Turkey	16 890	24 000	29 390	33 980	31 000
United Kingdom	177	202	102	42	—
<b>EU36 total</b>	<b>36 000</b>	<b>46 000</b>	<b>56 000</b>	<b>62 000</b>	<b>59 000</b>

### Notes

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

(a) Metal production

## EU36 Mine production of gold 2010 - 14



## Exports of gold

kilograms

Country	2010	2011	2012	2013	2014
Austria					
Metal	27 800	22 500	18 000	16 600	14 300
Waste and scrap	5 900	2 900	1 600	2 800	6 700
Belgium					
Metal	22 842	6 200	12 900	18 100	16 400
Waste and scrap	173 700	67 800	58 600	70 800	7 965 500
Croatia					
Metal	256	1 408	6 046	4 200	2 900
Waste and scrap	...	...	...	500	1 100
Cyprus					
Metal	300	600	1 200	1 300	2 000
Czech Republic					
Metal	12 000	21 400	5 300	82 100	7 600
Waste and scrap	4 400	2 700	11 700	1 500	4 400
Denmark					
Metal	761	1 224	1 556	5 560	1 000
Waste and scrap	500	1 800	3 000	1 300	300
Estonia					
Metal	400	2 300	1 600	2 300	1 500
Finland					
Metal	4 168	4 970	2 841	639	374
Waste and scrap	878	1 268	88 389	1 243	954
France					
Metal	27 729	45 303	54 233	41 186	29 815
Waste and scrap	24 189	29 961	10 955	9 694	9 628
Germany					
Metal	221 003	226 243	212 936	183 267	150 242
Waste and scrap	904 379	688 482	956 113	80 219	864 308
Greece					
Metal	48	2 455	1 426	2 600	200
Waste and scrap	...	12 300	9 300	24 800	66 100
Hungary					
Metal	1 827	2 214	2 529	2 535	900
Waste and scrap	2 221 600	2 665 300	2 115 900	11 900	17 200
Ireland, Republic of					
Waste and scrap	10 480	9 268	68 063	179 072	24 283
Italy					
Metal	109 762	176 952	200 363	138 471	103 143
Waste and scrap	154 845	1 006	7 001	10 283	3 990
Latvia					
Metal	81	344	850	1 286	6 630

## Exports continued

kilograms

Country	2010	2011	2012	2013	2014
Luxembourg					
Metal	32 700	8 000	4 500	100	4 900
Malta					
Waste and scrap	17 008	27 387	...	...	...
Netherlands					
Metal	34 851	50 559	37 629	31 713	20 606
Waste and scrap	57 680	112 629	123 769	58 592	44 029
Norway					
Metal	4 567	7 439	8 498	4 912	3 828
Waste and scrap	1 482	1 904	4 261	1 027	427
Poland					
Metal	1 100	3 000	12 300	7 100	4 200
Waste and scrap	588	26	1 000	180	147
Portugal					
Metal	6 600	13 100	17 000	10 600	6 700
Waste and scrap	800	100	457 000	274 800	84 200
Slovakia					
Metal	2 926	20 000	3 300	267 600	886 700
Waste and scrap	7 300	6 800	4 800	6 500	200
Slovenia					
Waste and scrap	5 450	12 200	14 800	1 100	—
Spain					
Metal	282 816	9 444 195	4 268 966	3 562 857	2 590 351
Waste and scrap	258 156	176 652	113 264	621 165	21 272
Sweden					
Metal	14 700	12 900	16 600	15 100	14 600
Waste and scrap	5 100	21 000	9 700	2 400	21 900
Switzerland					
Metal	1 605 359	1 867 822	1 627 583	2 853 431	1 824 340
Waste and scrap	105 407	94 837	71 297	162 383	154 409
Turkey					
Metal	56 035	30 226	282 160	71 980	78 083
Waste and scrap	619	1 360	...	580	84 829
United Kingdom					
Metal	293 153	775 261	266 572	1 736 966	1 890 797
Waste and scrap	496 924	272 597	1 928 197	388 290	726 210

## Notes

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

## Imports of gold

kilograms

Country	2010	2011	2012	2013	2014
Austria					
Metal	56 600	63 500	47 300	54 400	45 100
Waste and scrap	1 400	2 400	3 300	6 900	11 900
Belgium					
Metal	10 100	9 100	9 400	10 900	10 700
Waste and scrap (a)	* 557 000	* 495 000	* 726 000	* 602 000	* 486 000
Bulgaria					
Metal	55	1 596	342	137	200
Czech Republic					
Metal	2 600	23 800	3 600	5 500	5 100
Waste and scrap	84 000	192 500	245 400	12 200	14 800
Denmark					
Metal	2 065	101 814	2 037	49 186	45 810
Estonia					
Metal	900	1 600	900	3 200	1 600
Finland					
Metal	650	595	1 358	905	975
France					
Metal	20 037	19 721	18 994	26 979	20 200
Waste and scrap	25 070	3 886	697	1 324	12 568

## Gold

## Imports continued

kilograms

Country	2010	2011	2012	2013	2014
Germany					
Metal	192 815	162 289	133 260	149 337	112 065
Waste and scrap	1 396 280	2 680 174	2 568 174	1 997 032	2 320 541
Greece					
Metal	1 055	500	346	12 373	6 793
Hungary					
Metal	396	1 512	* 1 500	1 898	788
Ireland, Republic of					
Metal	£4 047 000	£5 356 000	£7 079 000	£11 757 000	£6 133 000
Italy					
Metal	149 022	175 415	195 214	175 188	145 409
Waste and scrap	649	1 223	5 075	4 360	2 137
Lithuania					
Waste and scrap	—	64 453	12 202	—	15 800
Luxembourg					
Metal	42 136	184 535	83 757	36 175	1 000
Waste and scrap	1	69	10	114	6 014
Malta					
Metal	8 200	3 400	3 100	7 100	7 400
Netherlands					
Metal	37 888	38 349	35 027	38 821	19 861
Waste and scrap	110 465	188 490	117	52 603	308
Norway					
Metal	969	1 220	1 338	1 007	1 018
Waste and scrap	4 127	5 415	4 915	3 928	4 000
Poland					
Metal	200	1 500	1 800	1 900	1 200
Portugal					
Metal	1 500	1 200	800	700	1 500
Waste and scrap	...	49 685	18 835	19 509	55 945
Slovakia					
Metal	220 470	189 400	523 800	120 600	1 124 900
Slovenia					
Metal	1 100	1 700	1 100	800	300
Waste and scrap	5 400	5 600	1 800	2 300	1 300
Spain					
Metal	44 542	46 695	24 180	103 946	803 063
Waste and scrap	2 780	29 069	33 912	25 382	21 318
Sweden					
Metal	£32 625 000	£42 028 000	£33 413 000	£38 738 665	£33 702 000
Waste and scrap	£12 243 000	£33 337 000	£26 246 000	£1 074 504	£984 000
Switzerland					
Metal	2 343 070	2 684 244	2 280 215	3 092 010	2 242 812
Waste and scrap	219 260	205 846	28 550	14 390	19 450
Turkey					
Metal	64 105	128 367	157 629	350 563	192 182
United Kingdom					
Metal	800 602	1 012 882	1 052 573	334 032	496 597
Waste and scrap	65 833	71 449	164 833	101 612	72 150

## Notes

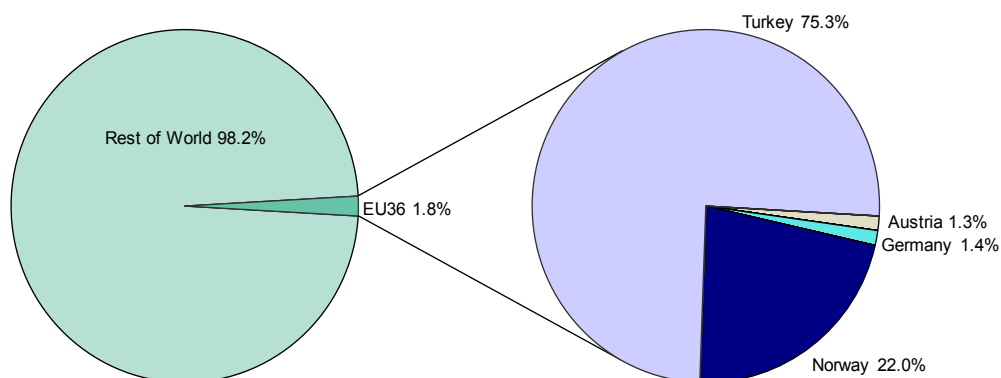
- (1) In this table the term 'metal' includes both unwrought and partly worked gold but excludes gold coin  
(2) Kilograms have been used as the unit except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £sterling  
(3) See explanatory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

(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 2014, with 86 per cent of the total world output. The second largest was India (five per cent) followed by Brazil (with four per cent).

**EU36 Production of graphite 2014**



## Production of graphite

tonnes

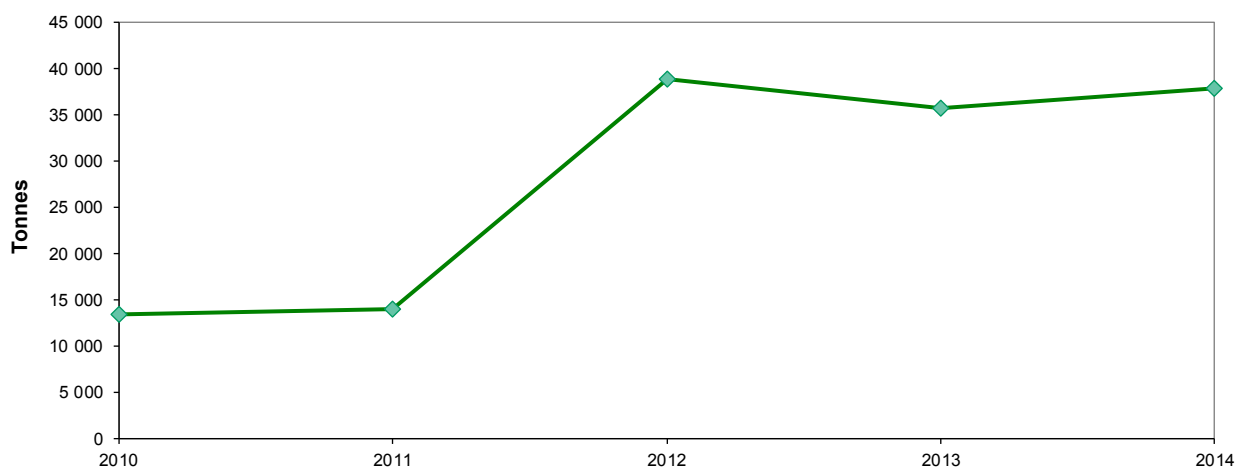
Country	2010	2011	2012	2013	2014
Austria (a)	420	925	219	* 500	* 500
Germany	—	—	109	269	517
Norway	6 270	7 789	6 992	6 207	8 308
Romania	6 633	—	—	—	—
Turkey	—	5 250	31 500	28 740	* 28 500
<b>EU36 total</b>	<b>13 000</b>	<b>14 000</b>	<b>39 000</b>	<b>36 000</b>	<b>38 000</b>

### Notes

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

(a) Crude

**EU36 Production of graphite 2010 - 14**



## Graphite

**Exports of graphite**

tonnes

Country	2010	2011	2012	2013	2014
Austria	9 518	9 936	5 562	5 216	4 744
Belgium	993	1 316	1 716	1 366	1 658
Czech Republic	3 154	3 417	3 108	2 673	2 980
France	361	321	166	222	265
Germany	20 583	15 600	12 721	13 601	16 994
Italy	798	512	310	233	281
Netherlands	2 967	10 651	11 201	8 019	9 535
Poland	233	505	977	796	600
Slovenia	14	661	252	79	402
Spain	5 369	6 142	5 184	1 620	446
Sweden	254	129	129	114	192
Switzerland	326	100	96	85	100
Turkey	220	761	766	836	663
United Kingdom	2 981	3 660	2 196	2 011	1 608

## Notes

(1) This table excludes synthetic graphite

**Imports of graphite**

tonnes

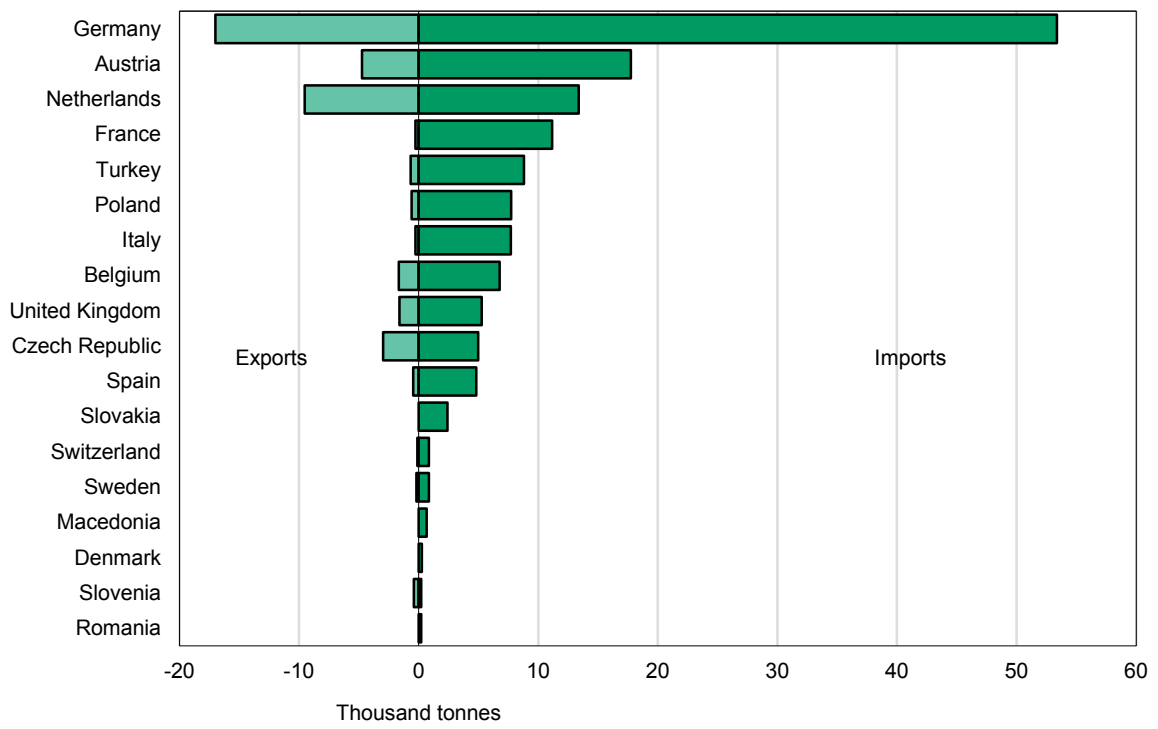
Country	2010	2011	2012	2013	2014
Austria	18 501	21 867	9 272	10 843	17 738
Belgium	7 243	7 473	6 109	6 321	6 779
Czech Republic	3 605	5 149	4 757	5 588	4 965
Denmark	303	405	424	335	256
France	9 981	11 725	8 201	7 799	11 150
Germany	56 333	57 411	43 349	46 829	53 380
Greece	219	92	68	64	103
Italy	8 308	12 559	6 411	6 274	7 703
Latvia	1	1	3 813	4	3
Macedonia	875	911	648	764	678
Netherlands	16 692	14 266	13 498	11 342	13 371
Norway	400	129	124	45	28
Poland	6 933	10 267	6 833	7 317	7 742
Romania	204	742	601	182	210
Slovakia	1 899	1 688	1 847	1 741	2 402
Slovenia	303	232	206	202	219
Spain	34 268	10 765	5 579	4 736	4 828
Sweden	1 315	1 129	779	893	844
Switzerland	848	823	454	841	854
Turkey	11 191	13 138	8 171	11 776	8 796
United Kingdom	6 989	6 869	4 114	4 951	5 277

## Notes

(1) This table excludes synthetic graphite



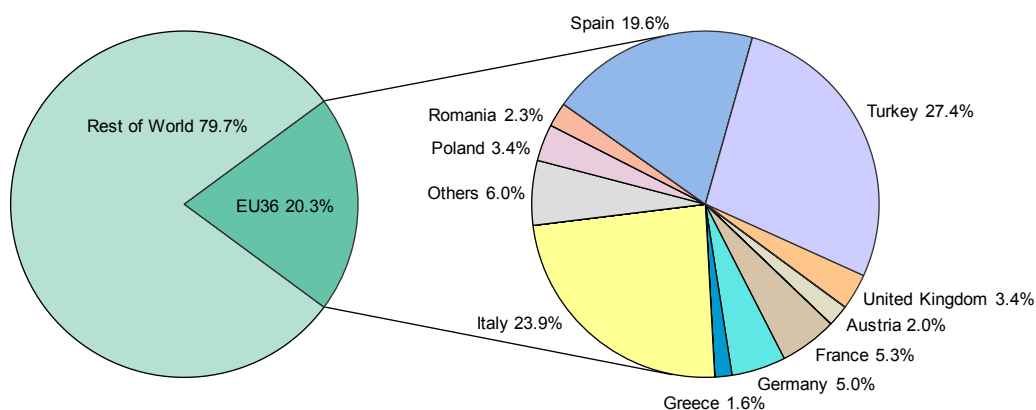
Graphite - EU36 trade in 2014



## 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 2014, with an estimated 21 per cent of the total world output. The second largest were Iran and USA (ten per cent each), followed by Thailand (eight per cent), Iraq and Turkey (with six per cent each).

**EU36 Production of gypsum 2014**



## Production of Gypsum

tonnes

Country	2010	2011	2012	2013	2014
Albania	* 80 000	* 80 000	91 021	126 349	108 733
Austria (a)	872 273	815 438	791 961	635 299	729 892
Bulgaria	109 200	114 800	113 700	119 100	* 119 000
Croatia	248 675	231 008	182 557	114 450	120 055
Cyprus	333 000	335 000	327 800	315 000	347 600
Czech Republic	5 000	11 000	14 000	11 000	11 000
France (a)	2 065 814	2 452 204	2 314 788	2 189 971	1 907 768
Germany (a)	1 822 000	2 021 000	1 949 000	1 778 000	1 802 000
Greece (a)	* 600 000	587 000	700 000	760 000	572 000
Hungary (a)	20 000	3 000	—	—	—
Ireland, Republic of	* 300 000	* 300 000	* 200 000	* 200 000	* 300 000
Italy (a)	4 441 109	3 642 897	3 200 920	3 192 186	8 551 200
Latvia (a)	176 510	215 950	252 714	272 340	* 280 000
Macedonia (a)	143 118	162 984	157 844	162 661	156 492
Norway (a)(b)	36 395	88 953	85 296	77 009	79 740
Poland (a)	1 241 200	1 418 300	1 395 400	1 270 100	1 231 900
Portugal	336 755	337 272	321 988	299 038	328 730
Romania	639 010	834 009	765 251	736 099	815 586
Slovakia (a)	87 000	88 000	88 000	60 000	65 000
Spain	6 990 249	7 825 747	6 359 923	7 388 699	* 7 000 000
Switzerland	335 000	300 000	297 000	284 000	242 000
Turkey	6 321 891	5 723 439	8 248 446	9 790 097	* 9 800 000
United Kingdom	* 1 200 000	* 1 200 000	* 1 200 000	* 1 200 000	* 1 200 000
<b>EU36 total</b>	<b>28 400 000</b>	<b>28 800 000</b>	<b>29 100 000</b>	<b>31 000 000</b>	<b>35 800 000</b>

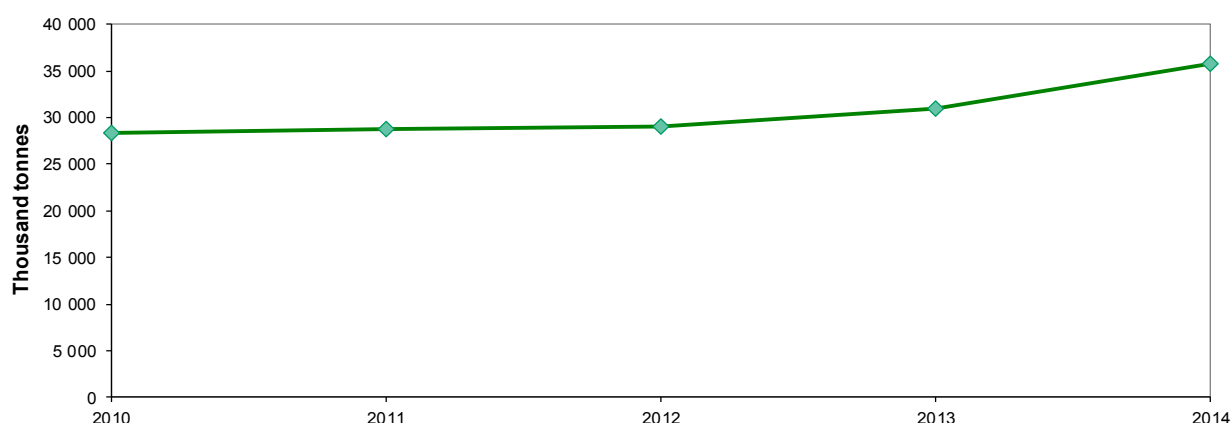
### Notes

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

(a) Including anhydrite

(b) Sales

## EU36 Production of gypsum 2010 - 14



## Exports of Gypsum

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Crude and calcined	1 955	791	2 019	7 439	...
Austria					
Crude	19 124	23 007	18 485	24 898	26 761
Calcined	55 927	76 548	79 280	75 787	76 479
Belgium					
Crude	92 533	101 382	72 899	81 189	84 022
Calcined	177 046	(a)* 195 000	(a)* 184 000	(a)* 187 000	(a)* 188 000
Bulgaria					
Crude and calcined	3 641	10 953	21 872	11 800	19 110
Cyprus					
Crude and calcined	250 034	248 284	249 250	248 863	297 086
Czech Republic					
Crude	48 605	103 363	63 751	70 706	88 861
Calcined	5 235	3 448	3 537	3 421	2 983
Denmark					
Crude	2 211	63	5 155	126	15
Calcined	8 299	6 725	13 990	1 748	1 603
Estonia					
Crude and calcined	87	105	1 781	1 282	956
France					
Crude	259 192	239 815	267 365	328 277	314 872
Calcined	286 799	310 248	289 668	242 886	270 093
Germany					
Crude	430 977	516 024	501 487	425 608	430 612
Calcined	1 558 288	1 333 953	1 444 714	1 156 749	1 162 927
Greece					
Crude	38 459	95 699	142 598	338 023	358 840
Calcined	337	621	3 750	3 415	1 844
Hungary					
Crude and calcined	17 367	44 845	59 059	27 914	33 284
Ireland, Republic of					
Crude	23 355	5 390	5 176	7 039	8 025
Calcined	15 129	21 274	16 585	16 699	18 723
Italy					
Crude	12 035	9 614	8 383	35 889	289 213
Calcined	18 484	39 465	79 661	84 696	186 856
Latvia					
Crude and calcined	38 596	47 016	84 358	97 074	92 767
Luxembourg					
Crude and calcined	1 596	1 919	1 698	1 594	606
Macedonia					
Crude and calcined	30 273	32 328	29 321	27 891	29 710

## Gypsum

### Exports of Gypsum

tonnes

Country	2010	2011	2012	2013	2014
Netherlands					
Crude	15 773	42 080	36 388	39 777	32 497
Calcined	1 656	2 714	3 005	2 818	3 216
Norway					
Crude and calcined	36 298	85 598	90 159	77 012	79 729
Poland					
Crude and calcined	47 654	121 689	111 389	119 406	136 399
Portugal					
Crude and calcined	20 016	47 278	56 546	31 679	26 634
Romania					
Crude and calcined	17 672	15 576	15 693	13 360	14 794
Spain					
Crude	2 678 452	3 379 570	3 781 205	3 454 407	3 911 285
Calcined	165 424	170 384	135 464	188 096	151 664
Sweden					
Crude and calcined	8 155	3 865	4 466	6 522	7 375
Switzerland					
Crude and calcined	8 536	8 606	7 283	5 386	4 597
Turkey					
Crude	134 905	111 864	107 000	62 545	29 276
Calcined	682 898	708 056	789 505	882 998	788 435
United Kingdom					
Crude	3 330	3 428	4 036	4 745	4 296
Calcined	24 552	25 504	21 216	19 481	19 957

#### Notes

(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	2010	2011	2012	2013	2014
Albania					
Crude and calcined	2 115	1 644	1 153	1 022	391
Austria					
Crude	22 432	84 817	36 806	67 145	123 475
Calcined	70 850	72 696	77 931	70 371	88 121
Belgium					
Crude	616 338	683 957	838 204	641 842	802 877
Calcined	396 873	507 725	455 117	422 056	403 858
Bulgaria					
Crude	6 239	11 399	6 338	5 416	6 994
Calcined	44 383	37 323	29 471	32 856	35 069
Croatia					
Crude	1 608	11 421	13 269	37 283	36 261
Calcined	14 076	12 709	11 790	9 308	10 276
Cyprus					
Crude and calcined	9 292	6 461	5 165	3 061	2 466
Czech Republic					
Crude	55 096	57 962	49 245	42 413	48 453
Calcined	33 763	34 353	33 209	34 644	54 348
Denmark					
Crude	53 577	97 219	133 652	85 185	106 959
Calcined	42 290	21 696	79 529	34 987	13 311
Estonia					
Crude	11 295	11 922	16 772	13 952	24 475
Calcined	8 950	8 343	7 718	8 328	7 892
Finland					
Crude	235 787	182 082	223 784	150 748	119 917
Calcined	7 281	11 020	9 270	7 061	7 728

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
France					
Crude	313 842	249 933	283 071	367 325	320 671
Calcined	85 849	76 800	73 772	90 451	93 009
Germany					
Crude	29 132	26 182	21 712	16 062	19 377
Calcined	82 341	80 574	98 665	93 803	86 645
Greece					
Crude and calcined	1 759	1 400	3 714	4 576	6 799
Hungary					
Crude	5 362	5 198	5 241	3 608	2 777
Calcined	12 413	18 039	24 138	31 969	35 398
Iceland					
Crude and calcined	2 771	1 073	872	932	1 763
Ireland, Republic of					
Crude	20 637	2 731	10 715	10 688	38 603
Calcined	5 410	9 318	7 623	8 944	8 369
Italy					
Crude	3 618	2 205	8 793	1 980	1 264
Calcined	16 267	16 976	17 916	17 911	20 810
Latvia					
Crude	22 669	33 495	48 578	45 012	60 286
Calcined	2 027	2 787	2 523	1 918	3 153
Lithuania					
Crude	54 772	63 632	64 379	82 504	72 310
Calcined	17 377	18 503	19 211	19 504	25 502
Luxembourg					
Crude	50 104	69 918	63 994	61 079	63 371
Calcined	10 715	18 459	24 216	19 003	17 069
Malta					
Crude and calcined	10 446	11 428	12 507	6 191	7 526
Netherlands					
Crude	203 179	307 971	280 623	349 844	415 489
Calcined	368 523	611 145	570 600	504 609	192 705
Norway					
Crude	84 359	94 824	79 789	78 521	88 089
Calcined	270 721	275 909	299 898	264 601	277 549
Poland					
Crude	129 336	134 230	122 407	20 267	20 374
Calcined	53 613	47 261	39 845	43 204	50 895
Portugal					
Crude	73 822	40 153	28 175	44 712	34 852
Calcined	270 783	237 788	167 437	133 151	123 507
Romania					
Crude	40 703	63 658	92 883	54 106	53 982
Calcined	47 912	50 866	43 118	36 964	61 892
Serbia					
Crude	14 601	22 546	32 566	25 738	29 987
Calcined	9 276	9 962	9 096	7 441	8 292
Slovakia					
Crude	74 512	80 966	70 308	99 454	104 686
Calcined	16 732	17 194	17 335	15 319	14 021
Slovenia					
Crude and calcined	8 557	7 003	6 132	5 411	5 853
Spain					
Crude	20 776	13 207	11 943	5 398	11 959
Calcined	6 021	5 799	5 548	12 354	14 797
Sweden					
Crude	256 696	324 584	294 946	271 096	337 505
Calcined	73 865	58 751	48 111	60 279	64 079
Switzerland					
Crude	112 555	94 474	81 642	78 329	107 446
Calcined	100 958	104 574	113 112	116 822	128 964
Turkey					
Crude	232 713	375 169	295 462	347 834	310 438
Calcined	1 782	1 916	2 259	2 485	3 431

Gypsum

Imports continued

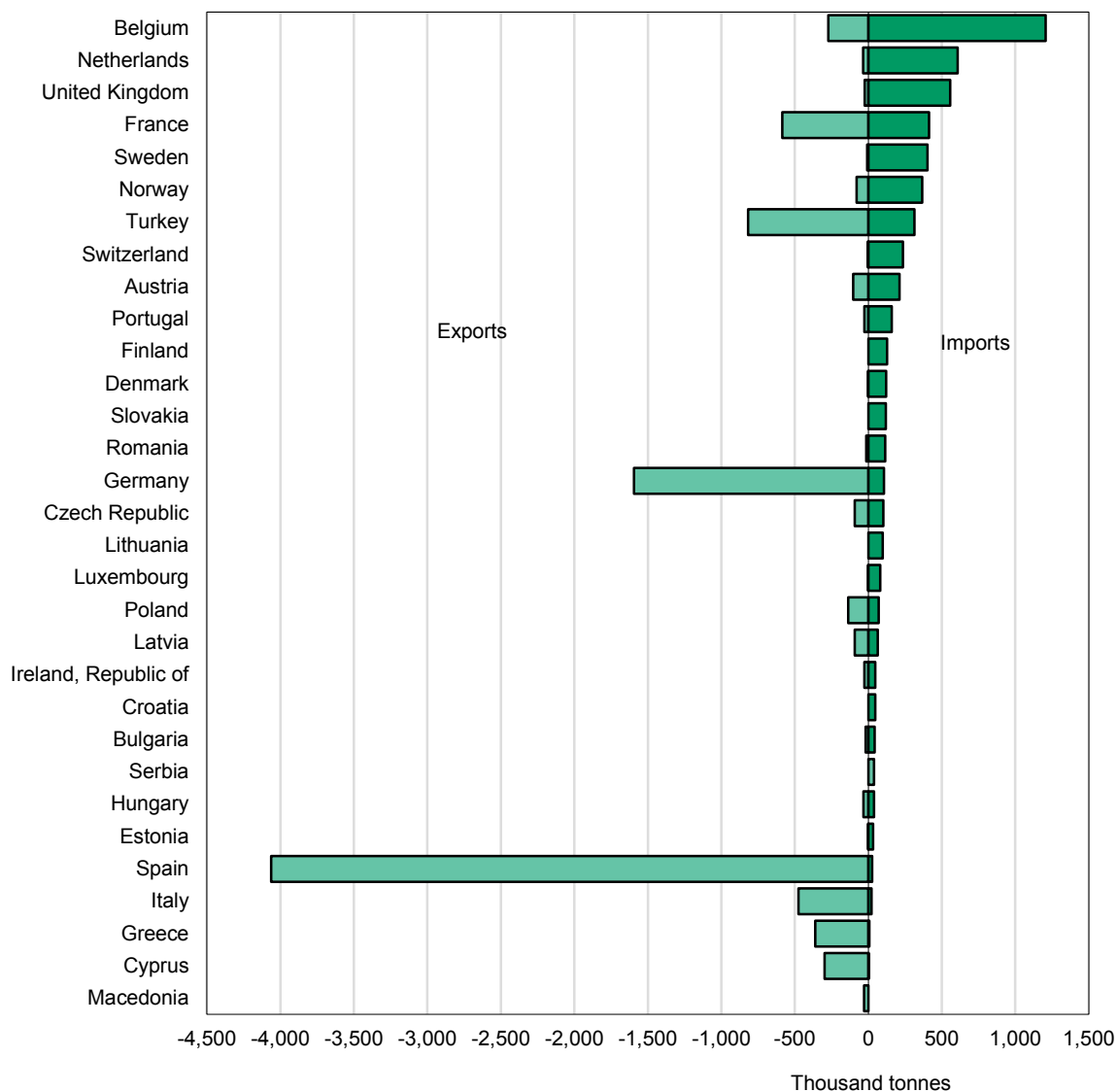
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Country	2010	2011	2012	2013	2014
United Kingdom					
Crude	216 605	539 327	490 661	376 972	516 377
Calcined	54 209	46 526	47 545	33 620	41 106

Notes

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

Gypsum - EU36 trade in 2014



## 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 2014, with 61 per cent of the total world output. The second largest was Japan (30 per cent), followed by USA (four per cent), China and Turkmenistan (two per cent each).

### Exports of iodine

kilograms

Country	2010	2011	2012	2013	2014
Austria	564	413	10 652	200	500
Belgium	3 989 500	3 584 800	3 391 900	4 457 300	5 356 700
Bulgaria	600	600	500	400	500
Cyprus	...	...	...	...	1 700
Czech Republic	1 000	2 000	4 000	5 300	1 400
Estonia	...	...	...	15 000	10 400
France	47 103	89 357	187 560	86 018	112 913
Germany	62 331	124 705	109 595	62 042	43 909
Hungary	...	...	92 300	40 900	—
Ireland, Republic of	—	2 589	—	—	—
Italy	24 722	20 112	22 559	26 637	128 186
Latvia	4 200	—	7 400	—	—
Lithuania	4	8 900	3 000	6 900	800
Luxembourg	83 600	40 900	—	—	—
Netherlands	124 797	152 295	122 569	502 562	704 006
Norway	—	13 250	1 127	—	—
Poland	16 400	4 000	3 700	2 700	4 000
Portugal	—	500	200	100	1 000
Spain	14 704	7 909	43 289	90 312	97 866
Sweden	700	900	7 900	(a)* 500	(a)* 600
Switzerland	349	239	238	17 244	1 952
Turkey	2 960	4 877	2 480	3 393	18 747
United Kingdom	393 005	234 182	370 132	190 878	304 611

## Notes

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

### Imports of iodine

kilograms

Country	2010	2011	2012	2013	2014
Austria	213 000	198 500	147 200	195 100	322 300
Belgium	4 087 700	3 814 500	4 663 100	4 773 300	5 909 800
Bulgaria	2 300	2 800	3 600	3 200	3 200
Croatia	204	233	195	400	900
Czech Republic	35 100	36 500	22 600	16 400	15 800
Denmark	10 168	5 895	8 447	11 900	14 100
Estonia	13 157	258	39	5 024	10 400
Finland	1 443	1 174	856	719	794
France	1 530 436	1 492 427	1 501 344	1 237 444	1 361 833
Germany	1 422 575	1 576 165	1 700 953	1 771 622	1 656 931
Greece	1 300	200	300	753	200
Hungary	2 700	6 100	4 000	8 000	12 600
Iceland	9	24	278	159	1 316
Ireland, Republic of	13 311	22 220	32 305	23 685	31 919
Italy	1 080 203	1 375 868	1 633 655	1 673 429	1 613 146
Latvia	140	272	252	708	19
Lithuania	17 732	20 100	3 200	2 000	400
Netherlands	16 031	1 352 421	811 065	1 174 000	947 209
Norway	1 708 338	1 663 657	1 759 025	2 035 784	2 057 520
Poland	21 700	11 600	12 900	21 800	9 200
Portugal	8 700	8 600	6 300	10 800	19 100
Romania	300	500	400	2 500	600

Iodine

Imports continued

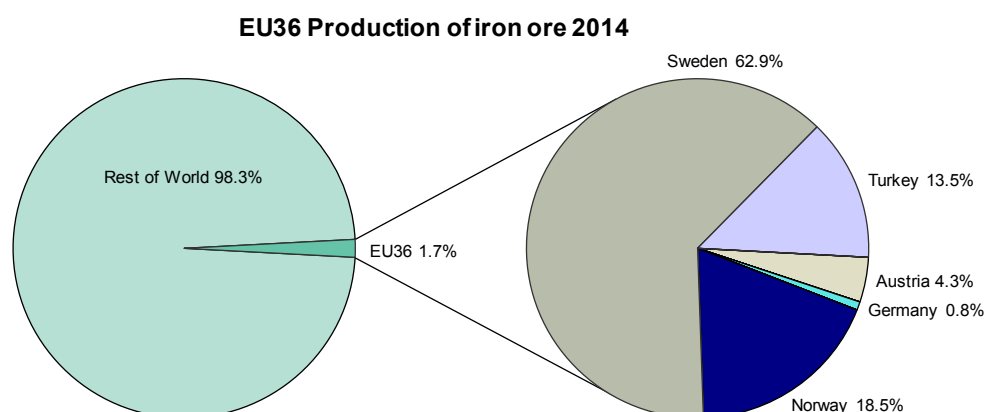
kilograms

Country	2010	2011	2012	2013	2014
Serbia	8 137	10 876	2 790	748	1 171
Slovakia	325	500	300	500	400
Slovenia	45	35	111	3 529	65
Spain	342 914	522 768	357 482	534 309	461 345
Sweden	1 100	1 800	8 600	1 700	2 900
Switzerland	10 238	10 839	13 172	13 865	9 232
Turkey	3 218	6 641	6 163	4 423	5 561
United Kingdom	1 253 806	1 426 239	1 573 126	1 135 699	1 129 242



## Iron ore

- There are two main commercial ores of iron — magnetite and haematite (both iron oxides). Iron is also recovered from pyrites ( $\text{FeS}_2$ ). 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 2014, with 45 per cent of the total world output. The second largest was Australia (22 per cent), followed by Brazil (ten per cent), India (four per cent) and Russia (three per cent).



## Production of iron ore

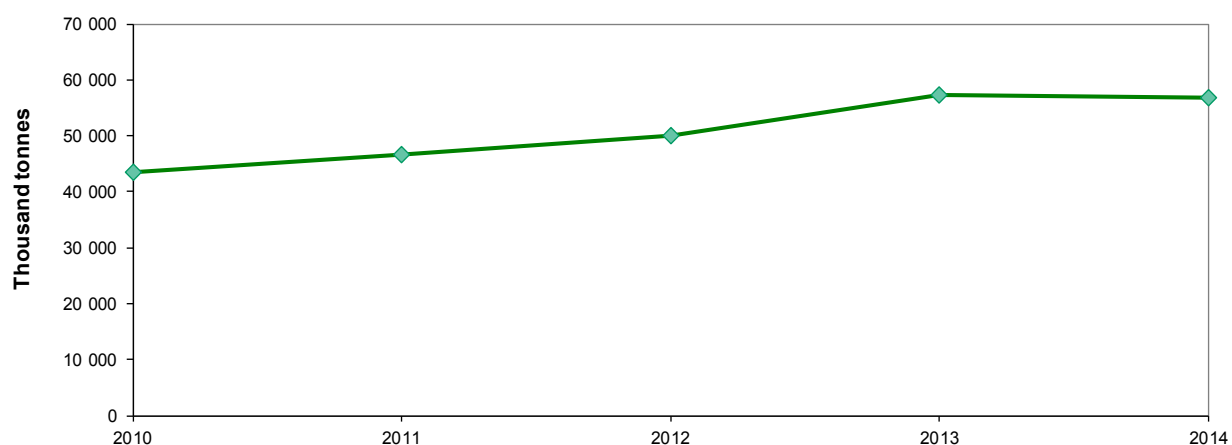
tonnes

Country	2010	2011	2012	2013	2014
Austria (a)	2 068 853	2 206 910	2 142 255	2 323 323	2 436 675
Germany (b)(c)	390 353	489 091	447 515	413 404	455 941
Norway	6 742 333	6 723 426	7 744 487	9 549 232	10 542 149
Sweden	28 797 000	30 840 000	32 198 000	37 411 000	35 759 000
Turkey	5 378 455	6 308 448	7 599 511	* 7 700 000	* 7 700 000
<b>EU36 total</b>	<b>43 377 000</b>	<b>46 568 000</b>	<b>50 132 000</b>	<b>57 397 000</b>	<b>56 894 000</b>

### Notes

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

## EU36 Production of iron ore 2010 - 14



**Exports of iron ore**

tonnes

Country	2010	2011	2012	2013	2014
Albania	277 026	606 577	191 531	191 934	479 445
Belgium	366 331	455 069	76 216	7 694	1 918
Bulgaria	1	—	26 823	2 776	156 101
Czech Republic	8	984	1 097	1 796	12 210
Finland					
Iron ore	298 912	(a)* 700 000	(a)* 1 200 000	(a)* 1 700 000	(a)* 2 521 000
Burnt pyrites	391 549	(a)* 80 000	(a)* 30 000	(a)* 13 000	(a)* 56 000
France	(b) 19 349	129 374	(b) 88 094	167 799	90 541
Germany					
Iron ore	22 373	54 555	42 763	50 451	113 172
Burnt pyrites	7 994	15 999	—	—	5
Greece					
Burnt pyrites	...	6 559	—	10 180	2 678
Hungary	52 400	64 435	63 373	11 382	2 009
Italy (b)	8 779	6 742	14 191	18 697	2 510
Netherlands	121 426	208 469	49 903	241 379	140 232
Norway	1 803 242	2 435 415	3 659 210	3 567 408	4 016 143
Poland	16 130	4 400	1 573	29 699	97 832
Romania					
Iron ore	1 718	2 728	53 998	317 571	4 436
Burnt pyrites	1 359	1 690	2 887	10 757	17 177
Serbia					
Burnt pyrites	0	34 828	1 547 491	1 288 928	206 424
Slovakia	62 568	22 481	118 695	121 558	97 908
Spain (b)	9 079	165 589	184 056	270 073	60 022
Sweden	20 726 152	21 115 203	22 869 383	23 455 915	23 727 480
Turkey					
Iron ore	195 770	273 798	323 089	858 755	1 029 111
Burnt pyrites	4 830	22 752	100 447	96 577	45 670
United Kingdom (b)	5 256	179 709	108 415	71 811	3 860

## Notes

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

(b) Including burnt pyrites

**Imports of iron ore**

tonnes

Country	2010	2011	2012	2013	2014
Austria (a)	9 309 860	9 966 338	9 628 923	8 269 199	6 289 430
Belgium	(a) 7 567 498	7 425 015	6 309 506	(a) 6 303 617	(a) 6 748 563
Bulgaria					
Iron ore	7 991	1 265	1 987	9 634	13 859
Burnt pyrites	16 653	16 679	11 794	4 344	3 046
Croatia	(a) 20 125	2 123	(a) 2 764	1 924	1 822
Czech Republic	(a) 5 902 011	(a) 7 363 983	(a) 5 870 744	(a) 6 268 042	6 303 298
Denmark (a)	39 494	49 605	49 005	39 879	28 723
Finland	(a) 3 052 609	3 728 222	3 220 998	(a) 2 903 196	(a) 3 091 635
France					
Iron ore	15 259 049	13 531 471	13 718 095	15 344 995	17 106 178
Burnt pyrites	11 603	11 452	23 894	13 099	6 569
Germany					
Iron ore	43 082 309	41 678 285	38 908 327	40 322 561	43 039 944
Burnt pyrites	3 077	4 513	23 495	13 696	10 335
Hungary	1 985 510	1 780 865	(a) 1 632 969	(a) 845 366	1 267 611
Iceland	36 318	42 846	19 251	22 916	11 088
Italy	12 092 237	15 134 122	13 396 809	11 522 381	9 510 836
Latvia	1	(a) 7 422	(a) 3 797	(a) 7 149	(a) 11 848
Netherlands	(a) 8 810 077	8 921 399	7 445 399	(a) 5 200 141	(a) 8 297 535
Norway	148 809	127 127	92 702	74 266	49 445
Poland	6 494 457	5 977 338	6 576 287	6 640 058	7 438 720
Romania					
Iron ore	2 848 921	2 186 674	2 023 063	2 545 657	2 225 618
Burnt pyrites	29 544	35 551	30 178	17 263	16 569

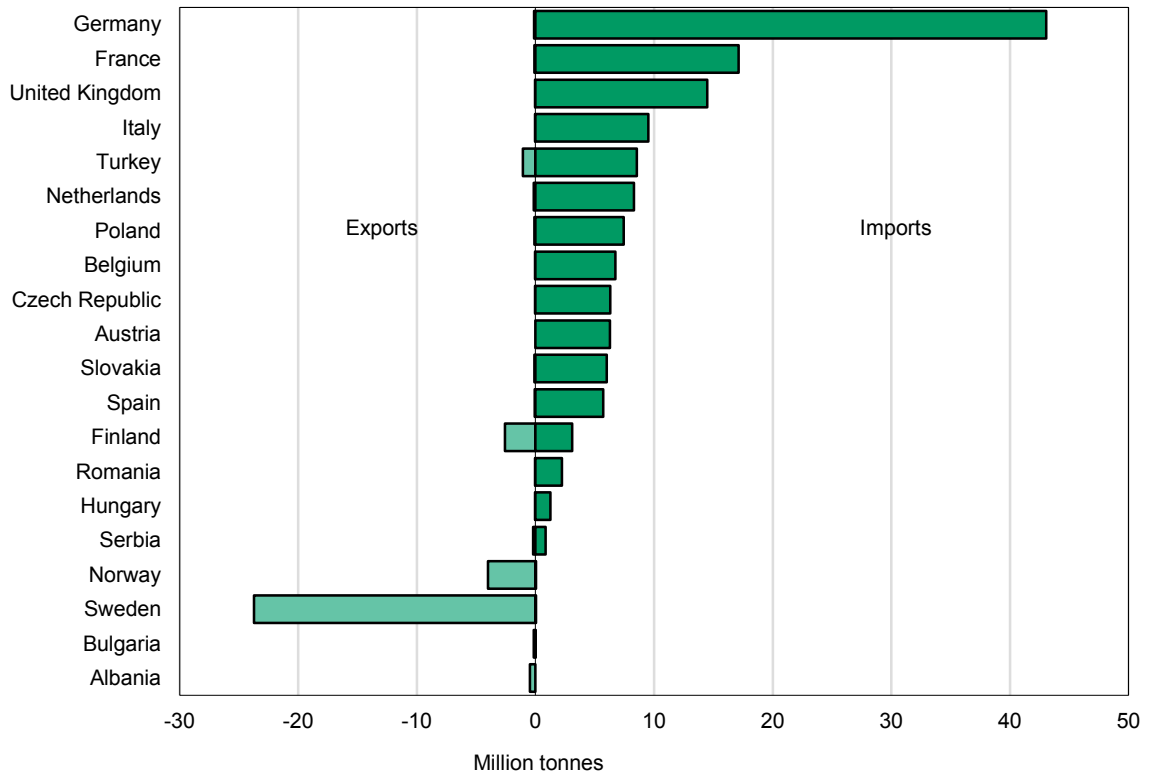
Imports continued

Country	2010	2011	2012	2013	2014
Serbia	1 860 593	(a) 1 624 795	(a) 465 170	486 247	850 269
Slovakia	5 796 813	5 103 229	5 404 215	5 647 197	6 012 384
Spain (a)	5 873 927	5 143 562	4 475 772	6 260 115	5 699 476
Sweden					
Iron ore	55 078	51 334	44 285	26 028	26 374
Burnt pyrites	16 743	24 561	22 191	...	4 014
Switzerland					
Iron ore	5 382	12 537	12 046	9 224	12 244
Burnt pyrites	15 171	14 916	13 386	10 991	8 162
Turkey	7 220 977	6 644 310	7 842 126	8 114 387	8 543 994
United Kingdom	10 597 085	(a) 9 175 852	(a) 10 062 323	(a) 14 137 160	(a) 14 469 169

Notes

(a) Including burnt pyrites

Iron ore - EU36 trade in 2014



**Production of pig iron**

tonnes

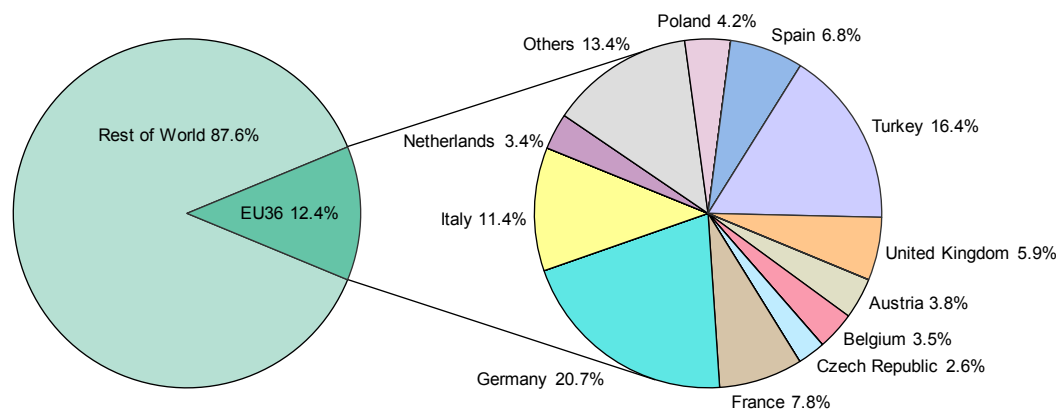
Country	2010	2011	2012	2013	2014
Austria	5 621 000	5 815 000	5 751 000	6 200 000	6 015 000
Belgium	4 688 000	4 700 000	4 073 000	4 343 000	4 335 000
Czech Republic	3 987 000	4 137 000	3 935 207	4 040 000	4 152 000
Finland	2 564 000	2 600 000	2 461 000	2 100 000	2 500 000
France	10 136 827	9 697 535	9 531 844	10 276 499	10 865 646
Germany	28 560 000	27 943 000	27 046 000	27 177 000	27 943 000
Hungary	1 325 000	1 315 000	1 229 000	600 000	801 000
Italy	8 555 000	9 824 000	9 424 000	6 933 000	6 371 000
Netherlands	5 799 000	5 943 000	5 909 000	5 700 000	5 868 000
Norway	108 000	101 000	100 000	100 000	110 000
Poland	3 637 994	3 974 930	3 943 968	4 013 877	4 637 478
Romania	1 723 418	1 595 000	1 580 000	1 300 000	* 1 300 000
Serbia	1 158 628	1 197 693	318 651	366 277	550 000
Slovakia	3 649 000	3 346 000	3 519 755	3 617 000	3 838 000
Spain	3 572 000	3 540 000	3 081 000	3 949 000	3 958 000
Sweden	3 447 000	3 240 000	2 805 000	2 896 000	3 078 000
Turkey	16 362 115	14 877 155	18 289 109	19 548 094	* 20 000 000
United Kingdom	7 233 000	6 625 000	7 183 100	9 471 000	9 705 000
<b>EU36 total</b>	<b>112 127 000</b>	<b>110 471 000</b>	<b>110 181 000</b>	<b>112 631 000</b>	<b>116 027 000</b>

## Notes

(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 2014, with 49 per cent of the total world output. The second largest was Japan (seven per cent), followed by USA and India (five per cent each), and Russia and South Korea (four per cent each).

**EU36 Production of crude steel 2014**

## Production of crude steel

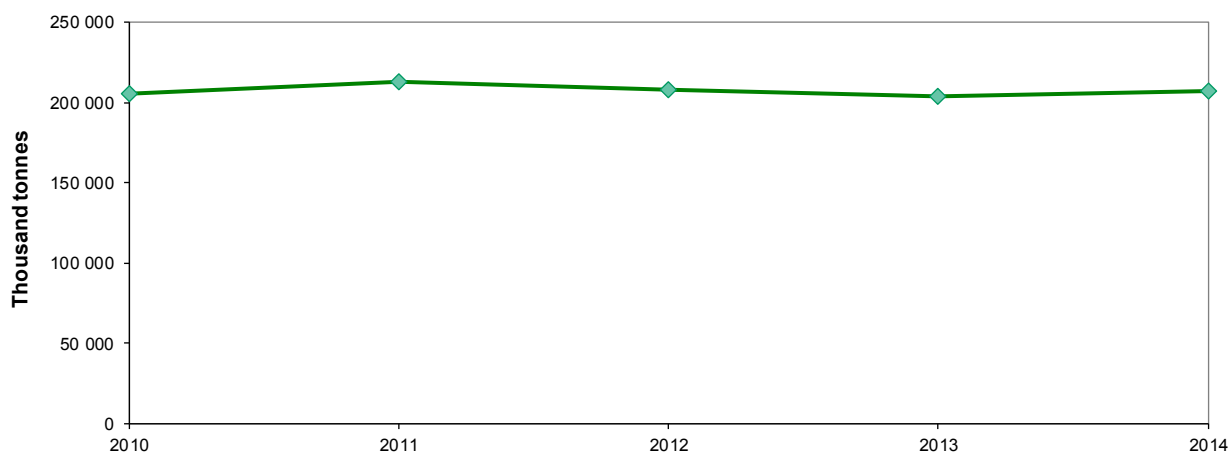
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Country	2010	2011	2012	2013	2014
Albania	390 000	464 000	390 000	312 000	637 905
Austria	7 206 000	7 474 000	7 421 000	7 953 000	7 876 000
Belgium	7 973 000	8 026 000	7 301 000	7 127 000	7 331 000
Bulgaria	744 000	835 000	633 000	523 000	612 000
Croatia	103 429	162 709	1 016	135 000	159 000
Czech Republic	5 180 000	5 583 000	5 072 082	5 171 255	5 360 000
Estonia	—	1	185	157	200
Finland	4 029 000	3 989 000	3 759 000	3 517 000	3 808 000
France	15 413 577	15 780 639	15 607 227	15 685 350	16 143 625
Germany	43 830 000	44 284 000	42 661 000	42 645 000	42 941 000
Greece	1 821 000	1 934 000	1 247 000	1 030 000	1 022 000
Hungary	1 681 000	1 729 000	1 543 000	883 000	1 152 000
Italy	25 750 000	28 735 000	27 252 000	24 093 000	23 714 000
Latvia	655 000	568 000	805 000	198 000	* 190 000
Luxembourg	2 548 000	2 521 000	2 214 000	2 090 000	2 193 000
Macedonia	344 866	348 576	225 224	145 633	196 454
Montenegro	48 272	61 164	28 161	19 723	* 15 000
Netherlands	6 651 000	6 937 000	6 879 000	6 713 000	6 964 000
Norway	530 000	610 000	700 000	605 000	595 000
Poland	7 993 025	8 776 458	8 542 514	8 199 353	8 799 731
Portugal	1 543 000	1 942 000	1 960 000	2 050 000	* 2 000 000
Romania	3 720 775	3 828 000	3 292 000	2 985 000	3 158 000
Serbia	1 254 386	1 304 954	346 000	396 000	583 000
Slovakia	4 583 000	4 236 000	4 403 447	4 511 000	4 705 000
Slovenia	606 000	648 000	632 000	618 000	615 000
Spain	16 343 000	15 504 000	13 639 000	14 252 000	14 163 000
Sweden	4 845 600	4 867 000	4 326 000	4 404 000	4 539 000
Switzerland	1 320 000	1 400 000	* 1 450 000	* 1 530 000	* 1 500 000
Turkey	29 029 789	30 562 184	35 885 000	34 654 000	34 035 000
United Kingdom	9 708 000	9 478 000	9 579 100	11 857 500	12 120 000
<b>EU36 total</b>	<b>205 845 000</b>	<b>212 589 000</b>	<b>207 794 000</b>	<b>204 303 000</b>	<b>207 128 000</b>

## Notes

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

EU36 Production of crude steel 2010 - 14



## 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 2014, followed by South Africa, India, Russia and Kazakhstan.

### Production of ferro-alloys

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Ferro-chrome	23 233	28 433	24 018	24 692	34 897
Austria					
Ferro-molybdenum	4 000	4 000	4 000	4 000	4 000
Ferro-nickel	2 500	2 500	2 500	2 500	2 500
Ferro-vanadium	8 000	8 000	8 000	8 000	8 000
Czech Republic					
Ferro-vanadium	* 3 400	* 4 600	* 5 800	* 6 400	* 6 400
Finland					
Ferro-chrome	238 000	231 000	229 000	434 000	441 000
France					
Ferro-manganese	138 100	130 500	101 000	* 100 000	* 100 000
Ferro-silico-manganese	62 400	63 400	68 500	* 70 000	* 70 000
Ferro-silicon	* 27 000	* 59 000	* 71 000	* 60 000	40 000
Silicon metal	* 112 000	* 128 000	* 110 000	* 110 000	100 000
Germany					
Ferro-chrome	* 18 300	* 18 500	* 17 800	* 17 800	* 17 800
Other ferro-alloys	* 9 200	9 985	8 248	* 8 200	* 8 200
Silicon metal	30 105	30 134	28 574	30 283	28 500
Greece					
Ferro-nickel	69 596	93 905	96 435	86 850	94 952
Iceland					
Ferro-silicon	114 230	120 076	131 818	125 204	109 739
Italy					
Ferro-manganese	* 25 000	* 25 000	* 27 000	* 27 000	* 27 000
Ferro-silico-manganese	108 000	145 000	110 000	153 000	67 000
Macedonia					
Ferro-silico-manganese	36 705	50 756	14 179	—	—
Ferro-nickel	14 413	17 292	19 247	20 001	18 054
Ferro-silicon	30 044	56 167	42 402	72 279	73 014
Norway					
Ferro-manganese	297 300	337 900	325 900	320 000	* 285 000
Ferro-silico-manganese	(a) 281 266	266 000	271 400	* 250 000	* 250 000
Ferro-silicon	* 225 000	170 102	203 886	337 281	192 389
Silicon metal	* 170 000	* 170 000	* 150 000	* 150 000	* 150 000
Poland					
Ferro-manganese	800	800	800	820	* 820
Ferro-silico-manganese	100	400	200	100	* 100
Ferro-silicon	53 206	72 668	78 115	73 589	62 878
Other ferro-alloys	200	300	300	11 250	* 11 300
Romania					
Ferro-chrome	14 353	—	—	—	—
Ferro-silico-manganese	20 605	* 30 000	* 30 000	* 30 000	* 30 000
Slovakia					
Ferro-silico-manganese	34 960	25 036	50 089	* 50 000	29 643
Ferro-silicon	26 419	32 304	32 726	41 664	44 030
Other ferro-alloys	38 860	18 575	20 059	* 20 000	26 505
Spain					
Ferro-manganese	102 200	92 100	* 80 200	* 80 000	* 80 000
Ferro-silico-manganese	134 200	142 300	* 148 100	* 150 000	* 150 000
Ferro-silicon	* 64 400	* 57 000	* 42 000	* 40 000	* 40 000
Silicon metal	* 32 500	* 43 000	* 62 000	* 65 000	* 65 000
Sweden					
Ferro-chrome	64 400	80 140	35 800	55 078	65 703

Production continued					tonnes
Country	2010	2011	2012	2013	2014
Turkey					
Ferro-chrome	* 50 000	* 40 000	* 40 000	* 40 000	* 40 000
Ferro-silico-chrome	* 3 000	* 3 000	* 3 000	* 3 000	* 3 000

Notes  
(a) Sales

Exports of iron, steel and ferro-alloys					tonnes
Country	2010	2011	2012	2013	2014
Albania					
Ferro-alloys	23 493	31 364	29 813	28 389	7 383
Ingots, blooms, billets	132 144	162 632	124 525	42 798	(a)* 103 700
Scrap	55 885	99 445	86 884	23 038	8 387
Austria					
Pig iron	4 476	3	74	776	1 989
Sponge and powder	1 195	653	49 019	46 756	10 889
Ferro-manganese	150	225	918	1 117	2 234
Ferro-silicon	538	1 233	663	1 227	830
Other ferro-alloys	1 930	232	710	182	19
Silicon metal	7 403	597	1 643	842	557
Ingots, blooms, billets	190 343	293 647	238 922	297 349	246 600
Scrap	1 034 398	950 865	1 008 503	963 641	1 055 948
Belgium					
Pig iron	254 854	255 067	232 381	218 946	171 376
Sponge and powder	35 395	10 029	14 734	22 163	19 703
Ferro-chrome	25 965	23 538	26 098	26 507	43 882
Ferro-silico-chrome	5 849	1 549	666	—	13
Ferro-manganese	26 544	41 161	43 319	30 129	15 544
Ferro-silico-manganese	48 652	47 762	10 280	4 867	2 927
Ferro-molybdenum	19 593	20 134	21 760	23 643	27 926
Ferro-nickel	...	775	675	57	122
Ferro-niobium	...	122	297	234	317
Ferro-phosphorus	...	117	211	632	1 091
Ferro-silicon	23 071	33 676	25 595	32 322	28 415
Ferro-titanium and ferro-silico-titanium	...	31	165	106	113
Ferro-tungsten and ferro-silico-tungsten	...	38	44	133	373
Ferro-vanadium	...	94	94	199	241
Other ferro-alloys	4 137	14 947	6 559	8 315	7 203
Silicon metal	8 522	8 396	2 327	2 127	1 910
Ingots, blooms, billets	487 535	484 510	336 540	288 335	211 596
Scrap	3 754 403	3 533 560	3 618 789	3 218 658	3 949 162
Bulgaria					
Pig iron	1 141	854	1 249	2 157	1 777
Ferro-manganese	...	85	153	969	537
Ferro-silico-manganese	19	1	136	761	1 717
Ferro-molybdenum	...	—	—	576	240
Ferro-silicon	980	248	1 563	1 463	1 679
Other ferro-alloys	2 115	227	754	1 652	110
Ingots, blooms, billets	30 327	24 822	14 564	11 786	6 658
Scrap	949 000	850 898	730 749	610 990	398 988
Croatia					
Ferro-alloys	6 526	5 254	2 368	73	131
Silicon metal	1	...	6	3 912	5 055
Ingots, blooms, billets	2 495	30 004	4 041	78 244	117 777
Scrap	357 015	517 438	516 600	349 730	350 706
Cyprus					
Scrap	96 654	138 529	136 351	103 981	78 944

## Iron, steel and ferro-alloys

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
<b>Czech Republic</b>					
Pig iron	65 473	45 677	82 769	82 515	42 910
Sponge and powder	...	163	46	932	1 132
Ferro-chrome	...	2 346	2 329	2 688	2 130
Ferro-manganese	...	1 704	1 776	2 107	1 780
Ferro-silico-manganese	...	1 754	2 819	4 676	2 188
Ferro-molybdenum	...	549	1 870	2 658	223
Ferro-phosphorus	...	40	10	92	168
Ferro-silicon	9 806	7 354	7 571	10 533	5 939
Ferro-vanadium	3 440	4 603	5 737	6 368	6 013
Other ferro-alloys	23 873	339	507	766	371
Ingots, blooms, billets	320 821	356 146	292 066	259 268	283 542
Scrap	1 814 398	2 011 915	2 042 131	1 908 593	2 061 990
<b>Denmark</b>					
Pig iron	239	1 102	1 681	674	579
Ferro-silicon	77	164	1 043	602	197
Other ferro-alloys	54	43	48	52	146
Ingots, blooms, billets	19 143	21 926	21 050	21 075	16 654
Scrap	1 596 485	1 554 808	1 359 467	1 245 646	1 690 566
<b>Estonia</b>					
Ferro-manganese	...	...	36	45	108
Ferro-titanium and ferro-silico-titanium	...	...	502	1 641	7 480
Other ferro-alloys	124	142	474	489	270
Scrap	512 766	563 124	631 831	517 330	424 235
<b>Finland</b>					
Pig iron	2 564	373	14 459	5 780	163
Ferro-chrome	126 713	97 322	104 829	283 425	270 570
Other ferro-alloys	560	211	217	202	171
Ingots, blooms, billets	263 863	219 129	127 904	49 814	75 696
Scrap	229 680	341 937	361 107	402 310	405 112
<b>France</b>					
Pig iron	52 439	53 736	44 010	42 234	35 485
Sponge and powder	18 917	20 857	9 484	7 372	18 140
Ferro-chrome	2 447	2 035	2 837	1 995	2 056
Ferro-silico-magnesium	1 259	1 222	2 381	1 485	1 261
Ferro-manganese	2 200	2 554	1 704	782	350
Ferro-silico-manganese	51 330	54 023	51 068	79 510	104 825
Ferro-molybdenum	548	802	972	724	705
Ferro-nickel	6 104	1 042	787	59	40
Ferro-niobium	505	220	186	186	739
Ferro-silicon	77 144	84 879	74 961	75 639	68 903
Ferro-titanium and ferro-silico-titanium	1 869	1 985	1 660	1 744	2 209
Other ferro-alloys	37 932	33 076	45 776	39 004	30 344
Silicon metal	261	298	85	65	234
Ingots, blooms, billets	1 858 111	2 088 739	2 232 987	1 141 631	1 233 421
Scrap	6 665 264	6 240 254	6 233 179	6 174 335	6 307 971
<b>Germany</b>					
Pig iron	180 542	183 310	171 347	149 745	122 568
Sponge and powder	56 763	43 160	35 370	35 330	38 850
Ferro-chrome	54 956	45 048	32 760	28 644	44 309
Ferro-silico-magnesium	1 718	2 355	2 062	2 981	1 762
Ferro-manganese	12 387	22 690	11 811	11 501	12 016
Ferro-silico-manganese	3 377	17 756	12 006	16 084	16 276
Ferro-molybdenum	3 174	4 440	2 815	3 438	3 808
Ferro-nickel	7 869	5 775	391	1 146	119
Ferro-niobium	538	237	228	283	342
Ferro-phosphorus	1 452	1 233	1 250	1 449	1 619
Ferro-silicon	95 683	81 464	67 351	65 014	75 122
Ferro-titanium and ferro-silico-titanium	4 180	5 350	4 687	4 010	3 739
Ferro-tungsten and ferro-silico-tungsten	640	402	417	381	320
Ferro-vanadium	659	391	226	389	550
Other ferro-alloys	10 799	8 722	3 952	5 080	5 165
Silicon metal	29 309	33 077	49 693	58 466	72 954
Ingots, blooms, billets	2 150 091	2 150 120	1 712 813	1 844 387	1 945 249
Scrap	9 175 802	9 859 197	9 658 280	9 146 441	9 291 270



Exports continued						tonnes
Country	2010	2011	2012	2013	2014	
<b>Greece</b>						
Pig iron	2 009	2 650	2	...	2 820	
Ferro-alloys	999	294	11 299	4 816	276	
Ingots, blooms, billets	143 318	139 537	64 523	44 379	51 214	
Scrap	66 989	59 592	57 511	70 956	62 938	
<b>Hungary</b>						
Ferro-alloys	104	207	272	112	140	
Silicon metal	...	4 317	2 887	1 809	5	
Ingots, blooms, billets	9 274	44 796	7 260	14 694	24 832	
Scrap	1 132 142	1 272 473	1 171 610	1 109 969	1 050 496	
<b>Iceland</b>						
Ferro-silicon	114 231	120 076	131 818	125 204	112 657	
Other ferro-alloys	5 603	6	0	0	0	
Ingots, blooms, billets	...	0	1	1	4 485	
Scrap	37 328	38 954	28 581	40 564	48 112	
<b>Ireland, Republic of</b>						
Sponge and powder	...	18 709	150	1 268	653	
Ingots, blooms, billets	262	9 240	510	425	887	
Scrap	484 871	609 985	517 800	447 391	447 669	
<b>Italy</b>						
Pig iron	38 026	22 412	51 911	39 597	49 144	
Sponge and powder	729	1 534	3 904	3 571	6 151	
Ferro-chrome	5 020	5 639	3 399	4 180	5 291	
Ferro-silico-chrome	48	57	—	—	122	
Ferro-silico-magnesium	33	27	114	527	92	
Ferro-manganese	9 186	9 761	11 603	8 233	9 372	
Ferro-silico-manganese	4 316	3 890	15 215	15 371	20 285	
Ferro-molybdenum	149	41	1 048	368	607	
Ferro-nickel	176	215	52	186	285	
Ferro-silicon	6 329	8 642	7 741	10 028	10 964	
Ferro-vanadium	6	124	324	78	335	
Other ferro-alloys	809	770	644	923	748	
Silicon metal	3 284	4 293	1 621	1 246	2 902	
Ingots, blooms, billets	909 562	908 493	831 477	702 422	653 960	
Scrap	422 731	317 626	324 451	253 587	268 714	
<b>Latvia</b>						
Ferro-chrome	4 051	9 502	30 189	13 006	10 095	
Ferro-silico-chrome	...	...	233	121	6 849	
Ferro-manganese	794	1 132	515	679	44	
Ferro-silico-manganese	6 247	16 563	20 152	11 513	7 636	
Ferro-silicon	11 029	23 706	13 874	26 207	20 202	
Ingots, blooms, billets	2 442	5 045	72 535	32 687	629	
Scrap	396 794	563 192	507 285	468 154	477 810	
<b>Lithuania</b>						
Ferro-nickel	...	...	1 336	635	1 044	
Other ferro-alloys	104	141	1 944	600	163	
Scrap	595 721	664 225	562 585	493 483	576 123	
<b>Luxembourg</b>						
Ingots, blooms, billets	10 953	37 393	27 521	26 104	15 018	
Scrap	165 832	133 133	102 625	127 509	98 166	
<b>Macedonia</b>						
Ferro-manganese	50	4	209	21	57	
Ferro-silico-manganese	31 344	46 254	22 482	441	4	
Ferro-nickel	67 384	77 107	89 302	94 714	83 915	
Ferro-silicon	19 491	52 684	41 131	71 956	78 486	
Scrap	71 830	83 784	88 861	75 972	61 124	
<b>Malta</b>						
Scrap	29 498	38 408	34 244	28 134	48 856	
<b>Montenegro</b>						
Ingots, blooms, billets	18 775	6 866	9 199	3 540	716	
Scrap	28 570	55 204	43 998	56 423	51 429	

## Iron, steel and ferro-alloys

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
<b>Netherlands</b>					
Pig iron	111 189	133 861	184 975	78 365	105 754
Sponge and powder	359	625	745	26 189	37 091
Ferro-chrome	170 489	242 310	232 408	168 967	227 443
Ferro-silico-chrome	448	14 816	31 811	6 589	9 567
Ferro-manganese	35 353	66 053	57 013	88 182	78 639
Ferro-silico-manganese	66 085	62 737	99 228	124 570	127 457
Ferro-molybdenum	6 462	6 544	8 031	8 399	5 929
Ferro-nickel	6 264	7 514	10 306	23 130	40 420
Ferro-niobium	1 175	2 070	1 280	1 941	1 909
Ferro-silicon	219 244	238 469	226 217	112 552	143 357
Ferro-titanium and ferro-silico-titanium	10 510	13 620	10 357	11 011	14 667
Ferro-tungsten and ferro-silico-tungsten	727	1 155	990	1 663	1 436
Ferro-vanadium	1 909	2 343	1 772	1 525	3 156
Other ferro-alloys	50 903	16 535	15 559	7 145	10 167
Silicon metal	69 896	65 055	86 097	47 748	51 298
Ingots, blooms, billets	849 018	1 553 519	1 601 063	702 912	624 693
Scrap	5 541 773	5 692 223	5 635 229	5 517 477	5 295 208
<b>Norway</b>					
Pig iron (a)	* 118 000	* 110 000	* 91 000	* 118 000	* 126 000
Sponge and powder	678	169	1 269	3 722	3 986
Ferro-chrome (a)	* 30	* 65	* 90	* 89	* 62
Ferro-manganese (a)	* 332 000	* 379 000	* 370 000	* 825 000	* 332 000
Ferro-silico-manganese	245 095	246 808	277 070	279 907	302 037
Ferro-silicon	214 643	246 711	244 224	246 718	268 911
Other ferro-alloys	2 479	47	9	20	74
Silicon metal	162 649	154 191	161 468	174 217	191 221
Ingots, blooms, billets	64 474	92 475	163 423	87 907	54 323
Scrap	337 675	289 943	345 558	365 332	422 776
<b>Poland</b>					
Pig iron	17 340	21 122	79 889	49 925	83 488
Sponge and powder	5 293	16 519	7 185	7 040	6 990
Ferro-chrome	668	309	505	648	1 396
Ferro-silico-chrome	81	95	—	7 558	28 705
Ferro-manganese and ferro-silico-manganese	10 113	3 284	5 844	44 294	58 249
Ferro-molybdenum	991	3 379	2 605	3 550	205
Ferro-silicon	59 845	76 121	72 741	83 700	68 970
Ferro-vanadium	457	146	266	333	387
Other ferro-alloys	5 255	4 206	1 548	2 998	1 726
Silicon metal	845	1 390	1 674	2 161	1 425
Ingots, blooms, billets	490 919	846 908	618 682	360 816	715 244
Scrap	1 334 069	1 838 699	1 955 438	1 946 832	2 041 162
<b>Portugal</b>					
Pig iron	18 502	21 606	18 330	17 431	37 707
Ferro-alloys	1 746	2 392	793	443	352
Ingots, blooms, billets	172 983	119 353	54 844	71 231	146 809
Scrap	303 013	239 842	236 115	246 687	214 984
<b>Romania</b>					
Sponge and powder	24 454	29 320	25 038	24 992	27 736
Ferro-chrome	14 234	10 996	8 577	1 715	1 209
Ferro-manganese	45	26	195	92	18
Ferro-silico-manganese	19 087	34 387	4 171	14 170	7 477
Ferro-molybdenum	179	73	1 655	703	1 590
Ferro-niobium	53	66	136	217	56
Ferro-silicon	24	0	—	45	167
Other ferro-alloys	44	28	61	52	27
Ingots, blooms, billets	196 302	267 543	199 986	156 285	186 585
Scrap	2 519 237	2 348 565	1 908 069	1 947 543	1 430 949
<b>Serbia</b>					
Pig iron	70 090	46 629	374 860	910	...
Ingots, blooms, billets	20 547	111 080	187 578	266 510	266 038
Scrap	416 713	357 778	372 846	330 259	266 550

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
<b>Slovakia</b>					
Pig iron	70 588	26 976	29 527	42 978	18 683
Ferro-chrome	10 029	11 189	12 893	10 802	9 185
Ferro-manganese	14 032	10 229	4 308	13 223	14 904
Ferro-silico-manganese	35 764	28 660	44 202	41 345	44 048
Ferro-molybdenum	78	2 416	172	98	24
Ferro-niobium	95	46	10	319	289
Ferro-silicon	19 656	31 004	26 389	39 296	42 123
Other ferro-alloys	3 295	3 180	4 930	6 277	8 190
Ingots, blooms, billets	631 135	221 697	413 032	128 932	306 932
Scrap	556 952	651 135	430 539	360 818	510 907
<b>Slovenia</b>					
Pig iron	10 507	21 823	19 227	10 834	12 799
Ferro-chrome	5 320	4 757	12 373	14 421	6 900
Ferro-silico-magnesium	2 139	2 002	2 197	2 842	4 082
Ferro-manganese	1 769	1 317	3 076	5 676	3 974
Ferro-silico-manganese	5 959	4 268	3 281	1 200	2 467
Ferro-phosphorus	464	569	639	600	693
Ferro-silicon	7 280	13 397	9 241	5 150	5 471
Ferro-titanium and ferro-silico-titanium	124	123	53	46	123
Other ferro-alloys	1 611	1 983	2 357	2 230	4 594
Silicon metal	5 568	4 753	764	1 303	6 181
Ingots, blooms, billets	17 320	39 269	33 034	36 092	46 103
Scrap	343 716	409 401	417 264	395 560	419 844
<b>Spain</b>					
Pig iron	2 998	7 023	11 831	17 049	9 620
Sponge and powder	2 658	3 233	3 000	3 659	5 565
Ferro-chrome	1 025	1 181	1 359	2 224	1 616
Ferro-silico-chrome	239	236	...	...	323
Ferro-silico-magnesium	57	514	569	2 835	784
Ferro-manganese	52 296	37 866	42 486	71 628	83 903
Ferro-silico-manganese	58 097	65 469	66 101	58 380	45 196
Ferro-molybdenum	359	7	55	22	129
Ferro-nickel	4	2	47	28	2 272
Ferro-niobium	380	518	336	88	235
Ferro-phosphorus	57	167	250	391	294
Ferro-silicon	12 854	12 952	20 235	17 571	21 927
Ferro-titanium and ferro-silico-titanium	18	12	56	190	152
Other ferro-alloys	1 436	877	643	797	1 253
Silicon metal	18 463	21 864	20 690	19 644	15 884
Ingots, blooms, billets	337 566	194 482	134 781	253 033	113 488
Scrap	277 401	431 394	737 203	567 955	626 637
<b>Sweden</b>					
Pig iron	146 027	133 387	109 644	34 960	66 844
Sponge and powder	12 335	313 081	297 427	293 451	302 616
Ferro-chrome	51 010	2 752	2 525	37 393	43 515
Ferro-manganese and ferro-silico-manganese	3 517	3 581	2 835	2 395	2 826
Ferro-molybdenum	340	375	294	253	276
Ferro-niobium	475	622	771	743	1 062
Ferro-phosphorus	582	448	479	497	535
Ferro-silicon	6 905	6 903	15 630	20 102	12 954
Ferro-tungsten and ferro-silico-tungsten	5	25	165	403	219
Other ferro-alloys	68	75	78	56	162
Silicon metal	2 337	1 274	1 206	1 409	2 013
Ingots, blooms, billets	261 273	235 814	450 860	415 798	256 503
Scrap	1 352 399	1 484 197	1 543 542	1 317 282	1 490 281
<b>Switzerland</b>					
Sponge and powder	2 191	981	1 013	908	184
Ferro-alloys	1 191	1 299	848	1 026	874
Ingots, blooms, billets	66 642	85 201	70 375	74 934	74 578
Scrap	623 910	630 837	626 757	714 655	633 366

## Iron, steel and ferro-alloys

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Turkey					
Pig iron	8 028	9 357	7 723	6 240	4 640
Sponge and powder	1 326	7 581	1 422	3 174	599
Ferro-chrome	74 570	76 255	75 555	104 259	103 552
Ferro-silico-chrome	4	3 994	593	1 512	150
Ferro-manganese	4 410	3 536	2 003	2 249	1 842
Ferro-silico-manganese	2 362	2 172	1 237	1 472	1 131
Ferro-silicon	4 619	5 807	2 653	2 676	3 987
Other ferro-alloys	203	892	202	408	201
Ingots, blooms, billets	3 716 586	2 459 563	2 985 209	1 566 856	603 113
Scrap	94 498	105 914	95 152	101 685	168 061
United Kingdom					
Pig iron	4 339	2 074	3 775	1 652	1 758
Sponge and powder	2 938	3 775	4 585	4 858	4 067
Ferro-alloys	45 314	43 918	49 357	47 949	47 413
Ferro-chrome	2 403	1 853	2 288	2 108	3 537
Ferro-silico-chrome	22	364	72	168	362
Ferro-silico-magnesium	366	338	327	240	119
Ferro-manganese	8 361	819	658	407	2 721
Ferro-silico-manganese	52	132	7 503	3 626	791
Ferro-molybdenum	11 248	12 948	12 421	11 922	12 491
Ferro-nickel	15	49	539	183	68
Ferro-niobium	224	179	257	162	195
Ferro-phosphorus	667	766	562	558	336
Ferro-silicon	2 958	6 594	4 659	5 109	3 400
Ferro-titanium and ferro-silico-titanium	15 197	17 662	18 040	22 652	22 831
Other ferro-alloys	3 802	2 213	2 030	814	562
Silicon metal	2 901	3 662	3 027	4 979	5 422
Ingots, blooms, billets	1 137 160	668 885	1 817 820	3 164 861	3 197 397
Scrap	7 507 853	7 744 411	7 160 639	6 777 534	6 934 918

## Notes

- (1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel
- (2) In this table "ferro-silico-magnesium" includes both HS codes 7207 9930 and 7202 9980 even though the description appears to have changed
- (a) BGS estimates, based on known imports into certain countries

## Imports of iron, steel and ferro-alloys

tonnes

Country	2010	2011	2012	2013	2014
<b>Albania</b>					
Ferro-silico-manganese	3 354	4 145	4 217	3 095	(a)* 4 000
Ferro-silicon	484	1 447	915	618	(a)* 30
Other ferro-alloys	2 056	10	45	206	...
Scrap	292 096	312 746	211 910	201 240	376
<b>Austria</b>					
Pig iron	25 355	30 367	18 706	18 579	18 012
Sponge and powder	13 537	18 585	90 782	49 177	60 919
Ferro-chrome	29 355	38 422	35 000	31 026	34 149
Ferro-silico-magnesium	132	150	97	101	47
Ferro-manganese	17 840	21 671	21 540	27 737	35 023
Ferro-silico-manganese	22 976	19 931	18 862	17 957	17 995
Ferro-molybdenum	742	1 402	1 503	1 127	883
Ferro-nickel	...	973	906	971	889
Ferro-niobium	1 061	1 191	1 865	1 165	1 235
Ferro-phosphorus	1 232	2 497	610	761	266
Ferro-silicon	27 063	33 709	38 402	58 296	56 677
Ferro-titanium and ferro-silico-titanium	471	630	607	367	567
Ferro-tungsten and ferro-silico-tungsten	552	715	624	533	452
Ferro-vanadium	166	65	300	204	191
Other ferro-alloys	3 549	4 806	3 067	2 974	1 666
Silicon metal	11 497	10 180	7 189	8 773	8 278
Ingots, blooms, billets	159 527	186 929	196 328	155 829	314 537
Scrap	991 574	1 016 301	1 007 906	1 168 752	1 270 084
<b>Belgium</b>					
Pig iron	331 652	320 083	286 145	261 257	224 056
Sponge and powder	39 503	54 212	42 889	65 817	45 121
Ferro-chrome	263 715	248 006	275 926	312 300	288 703
Ferro-silico-chrome	1 950	10 437	19 741	5 569	314
Ferro-silico-magnesium	1 992	1 716	1 258	831	915
Ferro-manganese	48 471	69 017	70 732	59 929	32 382
Ferro-silico-manganese	72 195	77 001	28 938	29 946	22 453
Ferro-molybdenum	2 160	3 261	3 437	4 248	5 069
Ferro-nickel	48 017	64 242	40 217	45 403	53 439
Ferro-niobium	1 890	1 598	1 687	2 047	2 262
Ferro-phosphorus	2 612	1 459	1 227	1 536	2 042
Ferro-silicon	92 785	105 445	87 805	88 808	104 298
Ferro-titanium and ferro-silico-titanium	2 926	2 377	2 525	2 157	2 380
Ferro-tungsten and ferro-silico-tungsten	229	93	249	227	471
Ferro-vanadium	214	146	263	397	413
Other ferro-alloys	7 039	8 777	7 451	9 086	8 121
Silicon metal	23 566	21 688	10 440	13 602	16 044
Ingots, blooms, billets	2 554 975	2 916 336	2 458 279	1 634 190	1 811 792
Scrap	4 726 992	4 634 651	4 330 264	4 238 922	4 746 513
<b>Bulgaria</b>					
Pig iron	14 781	17 521	13 807	19 196	14 048
Ferro-chrome	356	578	489	441	475
Ferro-silico-magnesium	164	183	177	237	339
Ferro-manganese	3 137	6 280	3 816	2 531	2 689
Ferro-silico-manganese	4 291	6 324	6 966	5 503	7 722
Ferro-molybdenum	47	82	37	728	268
Ferro-silicon	2 520	3 246	4 203	4 090	4 129
Ferro-titanium and ferro-silico-titanium	72	175	173	101	284
Ferro-vanadium	91	134	125	93	114
Other ferro-alloys	685	4 238	5 108	532	504
Ingots, blooms, billets	258 743	411 534	300 224	412 924	356 345
Scrap	269 483	230 401	113 497	93 301	115 480

## Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
<b>Croatia</b>					
Pig iron	10 343	14 072	12 353	13 950	12 973
Ferro-chrome	54	61	46	25	544
Ferro-manganese	135	546	59	361	1 027
Ferro-silico-manganese	2 005	743	56	927	1 003
Ferro-phosphorus	168	196	192	184	164
Ferro-silicon	1 416	878	828	1 055	862
Other ferro-alloys	441	262	234	26	137
Silicon metal	95	208	347	16 466	2 295
Ingots, blooms, billets	6 514	1 943	14 199	2 139	2 142
Scrap	30 395	44 335	4 875	43 945	91 041
<b>Czech Republic</b>					
Pig iron	54 625	76 416	67 036	65 101	71 319
Sponge and powder	15 391	24 059	18 754	13 440	11 099
Ferro-chrome	16 962	10 933	9 658	18 172	19 509
Ferro-silico-magnesium	820	1 061	699	530	596
Ferro-manganese	26 204	25 281	24 826	22 787	26 649
Ferro-silico-manganese	40 732	41 411	39 572	45 720	45 457
Ferro-molybdenum	1 868	2 401	3 415	3 962	2 106
Ferro-nickel	96	136	47	380	48
Ferro-niobium	275	310	360	295	250
Ferro-phosphorus	645	650	451	521	646
Ferro-silicon	31 908	33 418	29 475	31 596	28 820
Ferro-titanium and ferro-silico-titanium	239	317	212	173	112
Ferro-vanadium	482	472	526	935	637
Other ferro-alloys	3 012	2 749	2 358	2 316	2 643
Silicon metal	5 805	5 809	4 910	6 325	6 437
Ingots, blooms, billets	651 182	322 206	352 697	358 780	289 266
Scrap	410 647	472 576	475 327	551 957	568 675
<b>Denmark</b>					
Pig iron	10 263	17 316	17 014	18 760	18 331
Sponge and powder	3 229	3 586	8 505	28 389	37 989
Ferro-silico-magnesium	114	8	32	89	79
Ferro-manganese	139	121	248	151	96
Ferro-silicon	2 864	3 328	3 655	3 010	3 197
Other ferro-alloys	149	98	87	189	202
Ingots, blooms, billets	538 503	609 342	420 037	554 999	557 183
Scrap	337 192	242 848	208 231	322 275	241 463
<b>Estonia</b>					
Ferro-manganese	182	64	85	52	126
Ferro-niobium	438	374	411	410	462
Ferro-silicon	21	149	61	83	103
Ferro-titanium and ferro-silico-titanium	...	...	11	500	2 984
Other ferro-alloys	31	15	17	51	89
Scrap	8 434	12 230	8 305	25 634	103 833
<b>Finland</b>					
Pig iron	36 120	31 235	21 728	20 360	21 725
Sponge and powder	872 476	1 871	1 102	1 361	1 783
Ferro-chrome	7 055	8 274	33 392	6 865	7 949
Ferro-silico-magnesium	190	158	220	100	65
Ferro-manganese	10 595	11 784	10 170	9 005	10 661
Ferro-silico-manganese	30 204	30 169	* 22 000	30 757	31 309
Ferro-molybdenum	1 316	1 717	* 1 200	1 001	1 374
Ferro-nickel	25 746	40 962	* 51 000	35 930	75 230
Ferro-niobium	629	849	874	804	1 110
Ferro-phosphorus	543	499	325	537	374
Ferro-silicon	31 395	30 207	34 361	34 600	36 493
Ferro-titanium and ferro-silico-titanium	1 043	1 843	942	994	1 072
Ferro-vanadium	235	193	134	119	181
Other ferro-alloys	4 648	4 839	1 545	1 260	1 061
Silicon metal	1 390	1 281	845	1 821	5 370
Ingots, blooms, billets	18 268	17 119	10 111	12 616	4 205
Scrap	754 726	710 558	* 600 000	* 556 007	* 783 502

Imports continued						tonnes
Country	2010	2011	2012	2013	2014	
<b>France</b>						
Pig iron	139 186	160 336	140 321	187 416	150 165	
Sponge and powder	52 795	84 787	38 973	72 852	37 697	
Ferro-chrome	111 080	99 240	106 591	121 183	121 006	
Ferro-silico-magnesium	1 047	1 102	483	572	672	
Ferro-manganese	44 405	43 245	37 724	40 090	29 547	
Ferro-silico-manganese	35 405	44 217	58 938	40 432	62 179	
Ferro-molybdenum	3 720	4 857	4 441	4 081	4 091	
Ferro-nickel	7 724	16 270	4 818	6 119	13 255	
Ferro-niobium	2 195	2 225	1 608	1 673	2 103	
Ferro-phosphorus	2 656	2 227	1 833	1 857	1 983	
Ferro-silicon	51 906	65 306	54 824	52 768	68 493	
Ferro-titanium and ferro-silico-titanium	5 457	5 756	3 958	4 314	4 549	
Ferro-tungsten and ferro-silico-tungsten	343	378	303	328	275	
Ferro-vanadium	1 065	1 113	811	815	705	
Other ferro-alloys	16 247	15 035	8 602	11 741	12 485	
Silicon metal	19 135	19 373	27 828	30 215	30 591	
Ingots, blooms, billets	1 807 094	2 047 778	1 728 612	1 696 098	1 817 764	
Scrap	2 450 993	2 682 258	2 732 380	2 377 000	2 480 652	
<b>Germany</b>						
Pig iron	421 287	589 302	614 096	533 932	489 961	
Sponge and powder	500 970	326 097	210 328	461 742	653 438	
Ferro-chrome	454 005	447 242	392 515	329 237	265 333	
Ferro-silico-chrome	29 047	18 334	8 573	19 757	34 772	
Ferro-silico-magnesium	2 972	6 208	4 528	3 412	3 088	
Ferro-manganese	203 200	232 613	192 817	204 941	206 095	
Ferro-silico-manganese	185 067	208 913	206 967	224 049	243 694	
Ferro-molybdenum	16 375	18 760	16 934	17 025	17 850	
Ferro-nickel	192 394	155 881	81 991	88 951	20 985	
Ferro-niobium	5 923	6 579	6 297	5 857	6 540	
Ferro-phosphorus	6 067	5 137	5 587	5 471	6 788	
Ferro-silicon	272 466	298 352	248 310	227 634	253 921	
Ferro-titanium and ferro-silico-titanium	8 754	9 818	9 912	9 423	10 785	
Ferro-tungsten and ferro-silico-tungsten	787	977	1 010	1 313	1 345	
Ferro-vanadium	5 034	5 305	5 096	4 962	5 613	
Other ferro-alloys	11 783	15 982	21 651	14 401	14 036	
Silicon metal	255 977	241 565	232 640	219 791	245 485	
Ingots, blooms, billets	1 611 091	2 401 066	1 768 289	1 532 302	2 118 072	
Scrap	5 305 194	6 658 407	5 737 878	5 656 924	5 292 669	
<b>Greece</b>						
Pig iron	4 427	9 127	470	2 615	7 369	
Sponge and powder	5 772	3 302	429	680	697	
Ferro-chrome	693	1 217	1 304	1 174	1 425	
Ferro-manganese	837	271	203	162	197	
Ferro-silico-manganese	18 515	12 695	10 971	12 124	10 415	
Ferro-silicon	4 888	4 361	2 924	2 623	2 496	
Other ferro-alloys	849	167	156	401	838	
Silicon metal	1 426	1 746	1 212	1 487	1 779	
Ingots, blooms, billets	28 092	71 878	17 546	45 081	34 204	
Scrap	1 008 235	935 510	413 394	301 661	457 959	
<b>Hungary</b>						
Pig iron	7 158	5 662	5 527	5 079	8 122	
Ferro-chrome	187	223	279	323	229	
Ferro-manganese	12 015	16 011	12 255	5 753	8 770	
Ferro-silico-manganese	724	1 785	225	1 191	1 553	
Ferro-molybdenum	85	105	108	89	141	
Ferro-niobium	75	141	111	71	116	
Ferro-phosphorus	652	60	111	161	249	
Ferro-silicon	3 630	3 999	2 969	2 275	2 429	
Other ferro-alloys	569	312	410	263	545	
Silicon metal	4 010	7 832	5 619	4 061	2 563	
Ingots, blooms, billets	30 505	240 299	565 955	1 156 777	727 071	
Scrap	56 974	68 566	34 219	51 899	75 819	

## Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
<b>Iceland</b>					
Pig iron	1 148	841	844	792	1 833
Ferro-alloys	6 838	204	727	69	134
Silicon metal	4 366	3 204	4 816	6 377	7 469
Scrap	11 545	4 680	7	173	4 516
<b>Ireland, Republic of</b>					
Pig iron	1 345	946	797	797	131
Sponge and powder	989	1 176	1 216	698	443
Ferro-chrome	89	128	100	91	89
Other ferro-alloys	296	233	139	213	161
Ingots, blooms, billets	7 332	5 423	4 952	7 230	10 757
Scrap	4 030	3 310	6 565	3 496	3 171
<b>Italy</b>					
Pig iron	1 018 615	1 288 014	1 106 558	1 517 045	1 689 784
Sponge and powder	278 989	540 005	551 034	732 306	703 570
Ferro-chrome	390 374	414 410	416 091	388 133	339 587
Ferro-silico-chrome	97	841	3	99	83
Ferro-silico-magnesium	1 943	1 683	2 125	2 586	2 086
Ferro-manganese	71 406	86 512	82 933	86 923	72 526
Ferro-silico-manganese	158 540	176 855	167 310	173 051	167 846
Ferro-molybdenum	6 141	8 541	9 547	10 710	12 009
Ferro-nickel	98 168	116 806	128 877	124 343	118 962
Ferro-niobium	2 751	2 521	2 619	2 490	2 223
Ferro-phosphorus	631	414	365	380	297
Ferro-silicon	137 031	160 561	118 880	129 155	124 794
Ferro-titanium and ferro-silico-titanium	3 876	3 819	3 139	2 418	2 574
Ferro-tungsten and ferro-silico-tungsten	247	252	269	298	309
Ferro-vanadium	1 901	2 330	2 367	2 011	1 885
Other ferro-alloys	7 325	9 198	7 117	8 392	9 250
Silicon metal	48 392	53 131	41 277	43 173	40 350
Ingots, blooms, billets	3 681 439	3 662 856	3 169 000	3 198 102	3 126 871
Scrap	4 609 403	5 752 270	5 271 612	4 957 195	5 144 643
<b>Latvia</b>					
Pig iron	45 454	2 244	2 653	1 163	897
Sponge and powder	4 460	565	104	84	46
Ferro-chrome	6 995	9 782	17 179	13 045	3 125
Ferro-manganese	4 090	1 480	584	782	74
Ferro-silico-manganese	18 898	17 085	25 026	10 122	7 564
Ferro-silicon	24 660	25 992	15 963	25 583	20 428
Ferro-tungsten and ferro-silico-tungsten	...	...	80	120	...
Other ferro-alloys	158	245	119	51	174
Silicon metal	1 553	981	1 134	879	459
Ingots, blooms, billets	206 428	402 711	3 861	2 695	3 141
Scrap	443 817	366 039	923 037	318 371	219 926
<b>Lithuania</b>					
Ferro-manganese	51	39	6	38	106
Ferro-molybdenum	—	3	936	3	5
Ferro-nickel	...	674	986	—	1 044
Ferro-silicon	102	40	40	46	34
Other ferro-alloys	40	38	1 500	1 087	46
Ingots, blooms, billets	4 270	5 384	4 536	7 537	8 864
Scrap	35 270	71 858	59 444	30 690	35 161
<b>Luxembourg</b>					
Ferro-manganese	910	1 317	1 193	1 032	2 028
Ferro-silico-manganese	27 116	29 053	29 843	29 419	28 497
Ferro-niobium	192	226	212	243	248
Ferro-silicon	3 428	3 828	3 642	3 337	3 081
Ferro-titanium and ferro-silico-titanium	33	63	81	108	394
Ferro-vanadium	292	328	298	308	396
Other ferro-alloys	581	788	716	942	757
Ingots, blooms, billets	407 419	370 786	237 293	131 957	137 643
Scrap	2 693 481	2 632 849	2 259 684	2 330 581	2 224 619
<b>Macedonia</b>					
Pig iron	1 823	1 382	1 075	967	1 079
Ferro-alloys	2 401	5 970	3 251	2 436	3 410
Ingots, blooms, billets	145 509	97 889	100 791	90 116	116 862
Scrap	292 049	318 612	157 401	55 654	153 264



Imports continued					tonnes
Country	2010	2011	2012	2013	2014
<b>Montenegro</b>					
Ferro-chrome	242	395	249	147	186
Ferro-silico-manganese	1 663	891	306	168	146
Ferro-silicon	288	187	402	241	199
Other ferro-alloys	55	171	38	80	55
Scrap	19 950	27 396	11 306	16 280	2 877
<b>Netherlands</b>					
Pig iron	98 575	213 530	190 874	188 277	284 279
Sponge and powder	378 111	402 025	416 889	190 235	212 909
Ferro-chrome	93 919	123 284	76 613	264 401	177 341
Ferro-silico-chrome	2 838	525	353	6 227	1 427
Ferro-manganese	86 504	89 805	84 529	141 367	123 405
Ferro-silico-manganese	57 967	80 905	21 583	78 217	55 053
Ferro-molybdenum	4 643	7 753	4 548	3 397	3 466
Ferro-nickel	19 378	25 849	20 222	7 243	48 172
Ferro-niobium	920	1 354	1 397	78	1 695
Ferro-silicon	178 138	152 194	181 213	62 226	58 818
Ferro-titanium and ferro-silico-titanium	11 922	13 484	14 189	9 816	8 819
Ferro-tungsten and ferro-silico-tungsten	1 168	1 298	726	1 108	1 063
Ferro-vanadium	2 014	1 890	1 710	1 102	1 238
Other ferro-alloys	11 263	17 558	7 372	6 993	15 282
Silicon metal	82 599	75 664	81 148	100 682	134 485
Ingots, blooms, billets	536 157	1 335 875	1 040 244	404 473	742 121
Scrap	1 988 278	2 188 452	2 408 332	2 290 454	2 359 263
<b>Norway</b>					
Pig iron	1 498	10 709	9 749	7 650	3 445
Sponge and powder	575	39 665	36 216	28 156	7 197
Ferro-chrome	1 311	1 534	1 293	1 170	1 094
Ferro-manganese	5 303	5 254	1 200	124	237
Ferro-silico-manganese	548	0	2	197	—
Ferro-molybdenum	121	172	133	142	130
Ferro-silicon	10 615	9 595	5 383	3 478	5 128
Other ferro-alloys	1 544	2 090	1 022	1 845	1 902
Silicon metal	49 349	53 897	28 196	19 763	27 475
Ingots, blooms, billets	4 733	5 411	5 977	8 395	7 601
Scrap	108 802	138 814	210 426	194 345	155 549
<b>Poland</b>					
Pig iron	176 145	228 357	200 340	157 826	172 215
Sponge and powder	7 594	14 597	7 336	8 430	7 149
Ferro-chrome	7 785	8 042	9 413	19 247	27 396
Ferro-silico-magnesium	3 402	2 326	1 752	1 352	1 696
Ferro-manganese	30 721	45 192	31 083	64 426	45 459
Ferro-silico-manganese	56 882	65 816	60 667	71 356	114 736
Ferro-molybdenum	612	547	470	1 316	1 333
Ferro-nickel	4	...	207	9	419
Ferro-niobium	395	279	379	278	316
Ferro-phosphorus	917	1 253	1 183	850	760
Ferro-silicon	21 576	18 457	15 818	23 324	28 620
Ferro-titanium and ferro-silico-titanium	194	259	291	291	276
Ferro-vanadium	370	10	447	621	828
Other ferro-alloys	4 351	5 856	6 451	4 766	6 093
Silicon metal	16 219	17 091	17 754	22 669	24 818
Ingots, blooms, billets	119 466	370 144	575 506	603 525	400 640
Scrap	374 076	409 454	383 472	510 652	485 705
<b>Portugal</b>					
Pig iron	10 623	4 980	1 895	3 230	3 645
Sponge and powder	6 919	37 376	27 383	30 100	578
Ferro-chrome	810	683	617	770	960
Ferro-silico-magnesium	1 475	470	79	21	5
Ferro-manganese	856	722	683	593	623
Ferro-silico-manganese	4 396	9 877	15 041	13 097	9 481
Ferro-silicon	2 902	3 408	3 130	2 240	3 803
Other ferro-alloys	657	2 611	4 500	2 868	3 856
Silicon metal	753	950	1 182	606	770
Ingots, blooms, billets	28 583	33 675	33 266	31 844	35 388
Scrap	672 856	616 063	1 165 785	1 409 187	1 526 817

## Iron, Steel and Ferro-Alloys

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
<b>Romania</b>					
Pig iron	111 702	48 365	58 954	35 635	11 244
Sponge and powder	2 740	22 355	1 777	2 551	4 772
Ferro-chrome	1 500	2 856	2 564	1 911	2 803
Ferro-silico-magnesium	49	25	104	92	7
Ferro-manganese	15 530	18 136	21 039	19 489	21 826
Ferro-silico-manganese	19 151	24 215	19 093	10 013	17 029
Ferro-molybdenum	274	315	420	365	352
Ferro-niobium	55	132	177	172	116
Ferro-phosphorus	217	154	119	135	27
Ferro-silicon	9 859	9 602	10 392	8 149	7 881
Ferro-titanium and ferro-silico-titanium	183	412	284	250	209
Ferro-vanadium	153	166	166	211	167
Other ferro-alloys	1 255	1 495	635	677	886
Silicon metal	3 098	3 205	2 730	2 097	2 445
Ingots, blooms, billets	458 742	771 167	328 843	224 868	303 099
Scrap	5 501	8 416	49 468	17 655	6 274
<b>Serbia</b>					
Pig iron	2 739	1 281	1 073	1 017	569
Sponge and powder	217	187	89	1 524	135
Ferro-chrome	1 272	1 884	1 327	1 146	551
Ferro-manganese	9 524	9 270	2 299	4 893	6 905
Ferro-silico-manganese	440	2 431	3 727	3 970	4 182
Ferro-silicon	2 418	3 285	2 631	2 355	2 374
Other ferro-alloys	324	357	219	219	157
Ingots, blooms, billets	283 255	34 913	2 021	1 325	2 622
Scrap	12 403	35 192	90 554	169 512	148 094
<b>Slovakia</b>					
Pig iron	33 258	43 874	38 466	36 404	34 910
Sponge and powder	13 227	7 294	6 124	6 188	6 119
Ferro-chrome	6 829	6 684	8 014	7 056	5 056
Ferro-manganese	13 202	16 391	17 286	19 133	20 384
Ferro-silico-manganese	1 776	4 904	3 902	22 205	11 071
Ferro-molybdenum	140	374	252	213	194
Ferro-niobium	315	426	549	540	567
Ferro-phosphorus	282	629	463	307	511
Ferro-silicon	15 250	12 660	9 171	10 200	11 007
Ferro-titanium and ferro-silico-titanium	535	435	281	224	736
Ferro-vanadium	62	123	144	127	141
Other ferro-alloys	1 627	981	201	267	238
Silicon metal	6 309	7 196	6 329	6 735	7 887
Ingots, blooms, billets	10 020	24 162	7 314	12 664	10 131
Scrap	224 868	146 065	342 657	383 012	248 305
<b>Slovenia</b>					
Pig iron	29 120	25 327	30 517	29 660	28 531
Sponge and powder	1 225	1 630	794	1 020	1 211
Ferro-chrome	26 575	36 528	36 673	51 232	38 659
Ferro-silico-magnesium	624	786	1 485	1 377	1 509
Ferro-manganese	6 175	5 763	6 318	8 882	7 342
Ferro-silico-manganese	8 810	7 697	7 477	5 608	7 487
Ferro-molybdenum	717	885	1 028	1 060	1 085
Ferro-nickel	...	42	...	—	605
Ferro-phosphorus	846	968	1 115	710	978
Ferro-silicon	13 114	15 739	15 371	12 419	12 310
Ferro-titanium and ferro-silico-titanium	230	232	228	219	306
Ferro-tungsten and ferro-silico-tungsten	99	136	65	60	62
Ferro-vanadium	481	449	413	471	516
Other ferro-alloys	1 795	1 645	1 714	1 433	2 224
Silicon metal	7 874	8 318	5 862	5 810	11 851
Ingots, blooms, billets	8 191	31 931	20 897	20 770	28 446
Scrap	495 432	561 713	552 363	539 994	579 017

Imports continued					tonnes
Country	2010	2011	2012	2013	2014
<b>Spain</b>					
Pig iron	442 656	315 904	274 202	219 240	278 949
Sponge and powder	636 496	640 549	487 073	724 592	657 961
Ferro-chrome	164 125	152 254	180 740	168 647	202 818
Ferro-silico-chrome	1 854	5 448	4 037	5 878	5 673
Ferro-silico-magnesium	1 567	2 139	2 696	1 935	1 946
Ferro-manganese	19 930	15 256	23 224	14 088	6 801
Ferro-silico-manganese	39 895	36 803	39 584	36 653	33 322
Ferro-molybdenum	6 446	6 943	10 662	7 733	4 690
Ferro-nickel	47 389	43 284	45 528	47 485	44 498
Ferro-niobium	983	1 334	1 000	3 627	20 093
Ferro-phosphorus	1 425	1 816	1 282	1 478	1 515
Ferro-silicon	27 581	29 894	28 149	30 794	74 775
Ferro-titanium and ferro-silico-titanium	1 203	1 120	957	1 575	1 376
Ferro-tungsten and ferro-silico-tungsten	55	60	1 079	187	161
Ferro-vanadium	1 088	1 094	964	3 595	1 057
Other ferro-alloys	6 138	8 566	7 401	7 581	7 618
Silicon metal	8 446	11 801	12 573	16 647	8 840
Ingots, blooms, billets	1 269 577	1 061 766	1 025 012	789 798	976 739
Scrap	5 708 900	4 764 338	4 348 807	4 851 614	4 928 152
<b>Sweden</b>					
Pig iron	58 974	78 818	58 329	53 075	57 075
Sponge and powder	11 668	24 398	34 982	39 343	32 521
Ferro-chrome	90 630	74 988	56 996	64 917	69 787
Ferro-silico-chrome	1 805	4 133	803	1 251	1 901
Ferro-silico-magnesium	424	20	44	28	38
Ferro-manganese	60 577	57 927	45 423	36 501	35 293
Ferro-silico-manganese	9 099	11 586	15 965	15 241	18 638
Ferro-molybdenum	4 388	4 723	4 913	5 205	4 374
Ferro-nickel	7 995	10 119	10 119	11 819	16 693
Ferro-niobium	1 146	1 544	1 614	1 645	2 122
Ferro-phosphorus	415	632	584	671	657
Ferro-silicon	37 424	37 743	44 736	38 173	37 700
Ferro-titanium and ferro-silico-titanium	1 127	1 459	1 731	1 421	1 526
Ferro-vanadium	729	1 058	954	766	841
Other ferro-alloys	2 097	1 894	1 691	1 676	1 514
Silicon metal	6 818	5 375	6 112	8 391	9 264
Ingots, blooms, billets	193 605	203 669	151 187	121 328	168 391
Scrap	217 682	245 225	236 125	256 251	295 477
<b>Switzerland</b>					
Pig iron	16 812	17 969	13 207	15 397	13 826
Sponge and powder	6 668	4 812	4 780	4 959	4 133
Ferro-chrome	1 480	1 846	1 519	1 852	2 021
Ferro-manganese	11 566	9 721	10 871	10 771	12 019
Ferro-silico-manganese	3 767	4 948	4 292	5 474	5 100
Ferro-molybdenum	174	230	157	190	165
Ferro-phosphorus	321	191	200	235	163
Ferro-silicon	5 014	5 937	4 527	4 607	5 413
Ferro-vanadium	548	544	187	130	55
Other ferro-alloys	381	561	272	606	409
Silicon metal	1 385	1 661	1 014	953	1 042
Ingots, blooms, billets	18 026	61 349	49 448	45 336	33 908
Scrap	452 626	456 700	343 770	417 588	427 354

## Iron, Steel and Ferro-Alloys

Imports continued

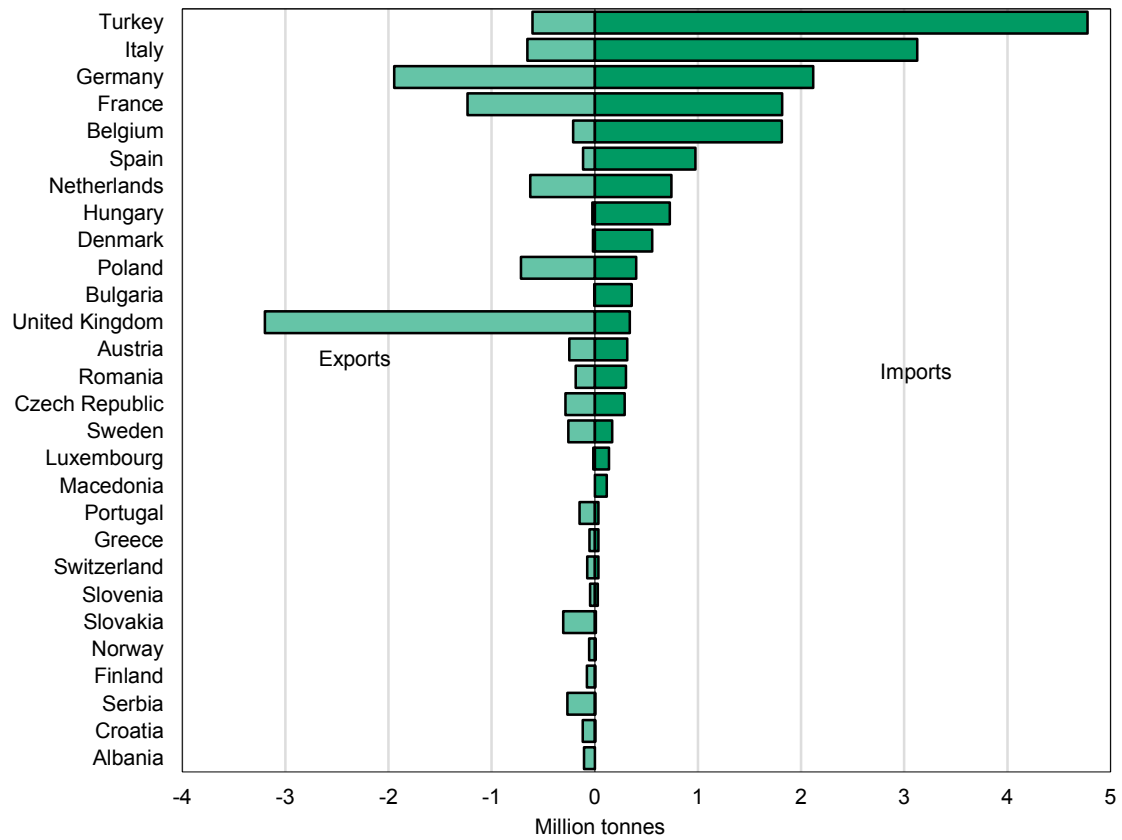
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Country	2010	2011	2012	2013	2014
Turkey					
Pig iron	557 398	1 137 729	1 376 572	982 579	912 961
Sponge and powder	284 608	180 591	387 667	510 327	223 419
Ferro-chrome	8 159	9 061	6 493	8 093	5 429
Ferro-silico-chrome	1	200	600	0	0
Ferro-silico-magnesium	786	1 344	2 064	1 910	1 280
Ferro-manganese	61 866	59 326	54 195	47 517	47 835
Ferro-silico-manganese	229 451	243 637	252 758	243 123	263 189
Ferro-molybdenum	1 577	1 091	1 181	1 106	1 125
Ferro-niobium	147	424	550	392	529
Ferro-phosphorus	1 050	1 035	1 117	817	684
Ferro-silicon	87 552	107 151	100 727	108 702	109 772
Ferro-titanium and ferro-silico-titanium	167	480	629	701	852
Ferro-vanadium	261	591	562	769	776
Other ferro-alloys	7 366	8 213	6 639	5 653	5 293
Silicon metal	9 978	10 363	10 777	7 215	9 814
Ingots, blooms, billets	2 350 758	2 157 532	3 355 265	5 429 936	4 777 554
Scrap	19 138 460	21 452 724	22 415 045	19 725 026	19 068 005
United Kingdom					
Pig iron	41 959	69 095	55 845	38 057	52 780
Sponge and powder	97 745	147 870	176 638	33 518	9 590
Ferro-alloys	208 817	225 819	212 787	216 722	235 941
Ferro-chrome	58 398	70 191	65 219	48 587	63 275
Ferro-silico-chrome	9	362	723	163	307
Ferro-silico-magnesium	931	1 328	1 360	1 211	948
Ferro-manganese	46 985	39 159	47 706	59 517	54 814
Ferro-silico-manganese	49 280	51 928	36 661	43 823	47 122
Ferro-molybdenum	322	573	458	259	303
Ferro-nickel	6 284	13 888	17 916	13 439	22 480
Ferro-niobium	859	395	250	987	1 029
Ferro-phosphorus	836	1 134	474	810	1 088
Ferro-silicon	43 703	45 918	39 351	42 966	43 209
Ferro-titanium and ferro-silico-titanium	274	187	902	687	805
Ferro-tungsten and ferro-silico-tungsten	48	44	34	30	47
Ferro-vanadium	340	368	246	339	450
Other ferro-alloys	595	388	1 520	3 904	158
Silicon metal	99 651	101 005	97 454	97 524	111 125
Ingots, blooms, billets	714 541	1 185 242	835 691	443 657	340 628
Scrap	270 986	423 744	284 986	302 580	351 436

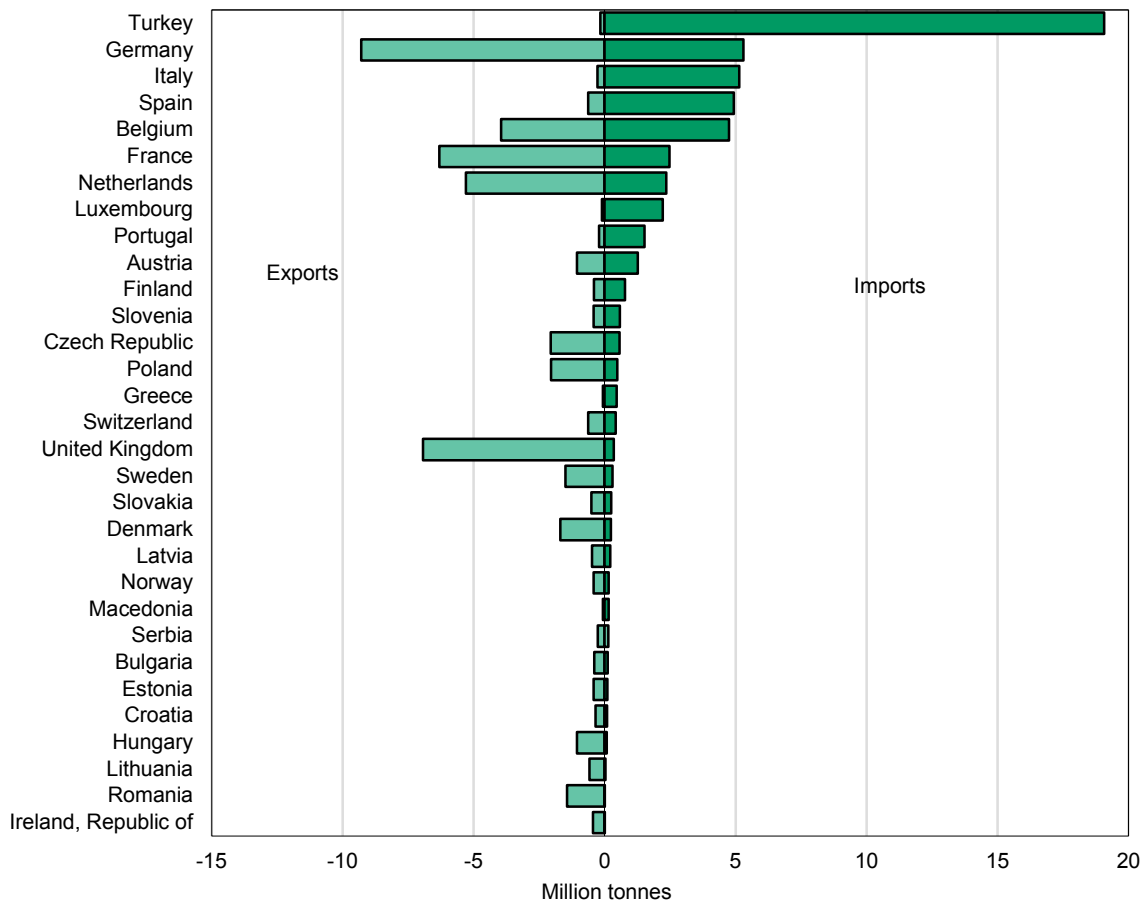
## Notes

- (1) In this table the term 'ingots, blooms, billets' corresponds to items 7206, 7207, 7218 and 7224 of the Harmonised System which includes those of alloy and high carbon steel
- (2) In this table "ferro-silico-magnesium" includes both HS codes 7207 9930 and 7202 9980 even though the description appears to have changed
- (a) BGS estimates, based on known exports from certain countries

**Iron and steel ingots, blooms and billets - EU36 trade in 2014**



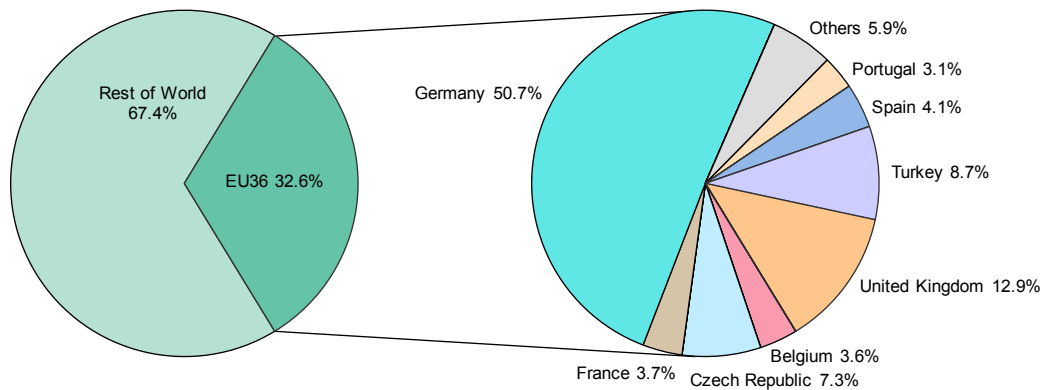
**Iron and steel scrap - EU36 trade in 2014**



## 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 2014, 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 Ukraine (six per cent).

**EU36 Production of kaolin 2014**



## Production of kaolin

tonnes

Country	2010	2011	2012	2013	2014
Austria	18 914	18 897	13 497	11 558	* 11 500
Belgium	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Bulgaria	* 16 832	7 700	33 900	22 600	* 32 000
Czech Republic (a)	636 000	660 000	624 000	609 000	617 000
France	350 000	310 000	308 000	* 300 000	311 000
Germany (b)	4 578 097	4 898 516	4 398 796	4 348 562	4 275 422
Greece	3 493	7 250	6 268	—	—
Italy	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Poland (c)	125 000	163 600	137 800	166 000	* 165 000
Portugal	273 890	322 041	321 689	248 008	264 872
Romania	326	—	—	32 722	30 638
Serbia	76 197	90 472	69 487	* 70 000	* 70 000
Slovakia	—	4 000	3 000	6 000	6 000
Spain (c)	310 993	384 179	402 251	410 717	350 000
Turkey	787 287	1 229 352	988 081	1 027 189	734 072
United Kingdom	* 1 140 000	* 1 290 000	* 1 150 000	* 1 110 000	* 1 090 000
<b>EU36 total</b>	<b>8 800 000</b>	<b>9 900 000</b>	<b>8 900 000</b>	<b>8 800 000</b>	<b>8 400 000</b>

### Notes

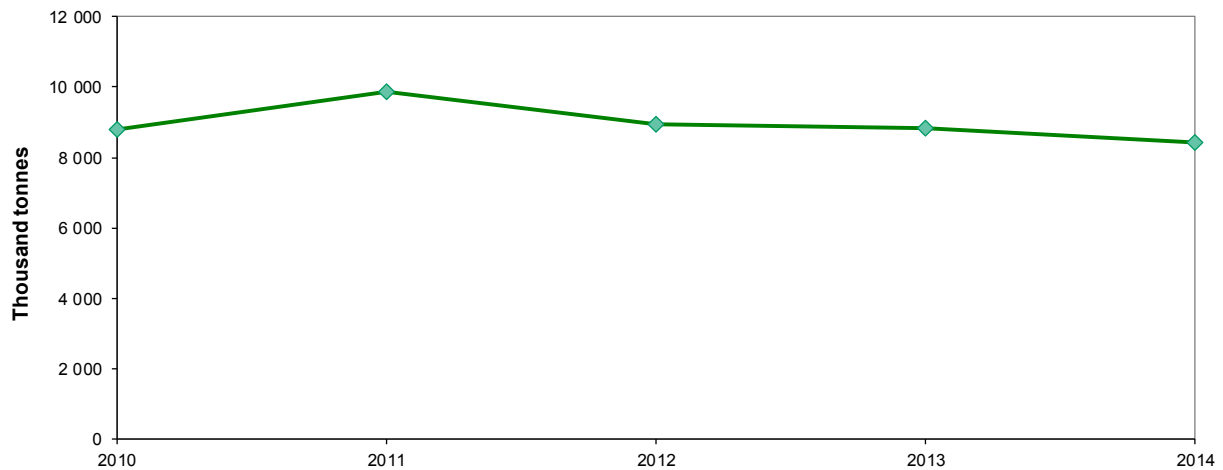
(1) In addition to the countries listed, Denmark is believed to produce kaolin

(a) Beneficiated

(b) Washed and dried

(c) Washed

## EU36 Production of kaolin 2010 - 14



## Exports of kaolin

tonnes

Country	2010	2011	2012	2013	2014
Austria	27 908	6 588	6 958	6 318	5 944
Belgium	523 697	232 664	219 024	193 131	759 901
Bulgaria	159 669	197 114	193 385	200 655	214 229
Czech Republic	485 203	537 962	507 689	504 179	504 690
Denmark	607	1 370	1 489	1 245	966
Estonia	878	830	1 019	352	591
Finland	18 176	30 760	40 550	38 900	37 761
France	272 778	273 802	244 439	232 133	240 605
Germany	389 927	431 815	361 915	372 171	394 195
Hungary	2 436	3 272	2 861	2 753	2 980
Italy	36 208	27 994	21 393	24 241	29 178
Lithuania	40	648	1 258	258	311
Netherlands	33 923	24 652	25 254	26 668	29 800
Norway	103	85	492	20	72
Poland	9 781	13 591	12 366	10 173	11 749
Portugal	31 390	102 721	122 029	103 161	147 026
Serbia	1 868	1 282	1 069	4 649	8 234
Slovakia	4 493	552	42	14 067	16 080
Slovenia	359	277	197	504	300
Spain	167 557	161 497	173 332	164 350	200 956
Sweden	23 103	16 444	7 032	769	605
Switzerland	287	55	201	425	189
Turkey	137 963	83 203	110 139	91 294	117 304
United Kingdom	1 722 335	1 157 780	1 039 460	1 003 841	984 272

## Notes

(1) The term 'kaolin', as used here, includes kaolin and kaolinic clay

## Imports of kaolin

tonnes

Country	2010	2011	2012	2013	2014
Austria	194 396	187 831	171 310	161 876	157 527
Belgium	1 001 057	890 863	868 298	854 056	930 145
Bulgaria	23 784	25 789	29 038	26 218	41 453
Croatia	10 238	11 278	8 655	9 456	8 417
Czech Republic	14 125	19 352	17 045	15 815	16 757
Denmark	37 007	37 755	53 815	26 349	12 360
Estonia	881	211	8 568	3 090	3 326
Finland	941 387	936 544	860 241	806 954	745 438

Kaolin

Imports continued

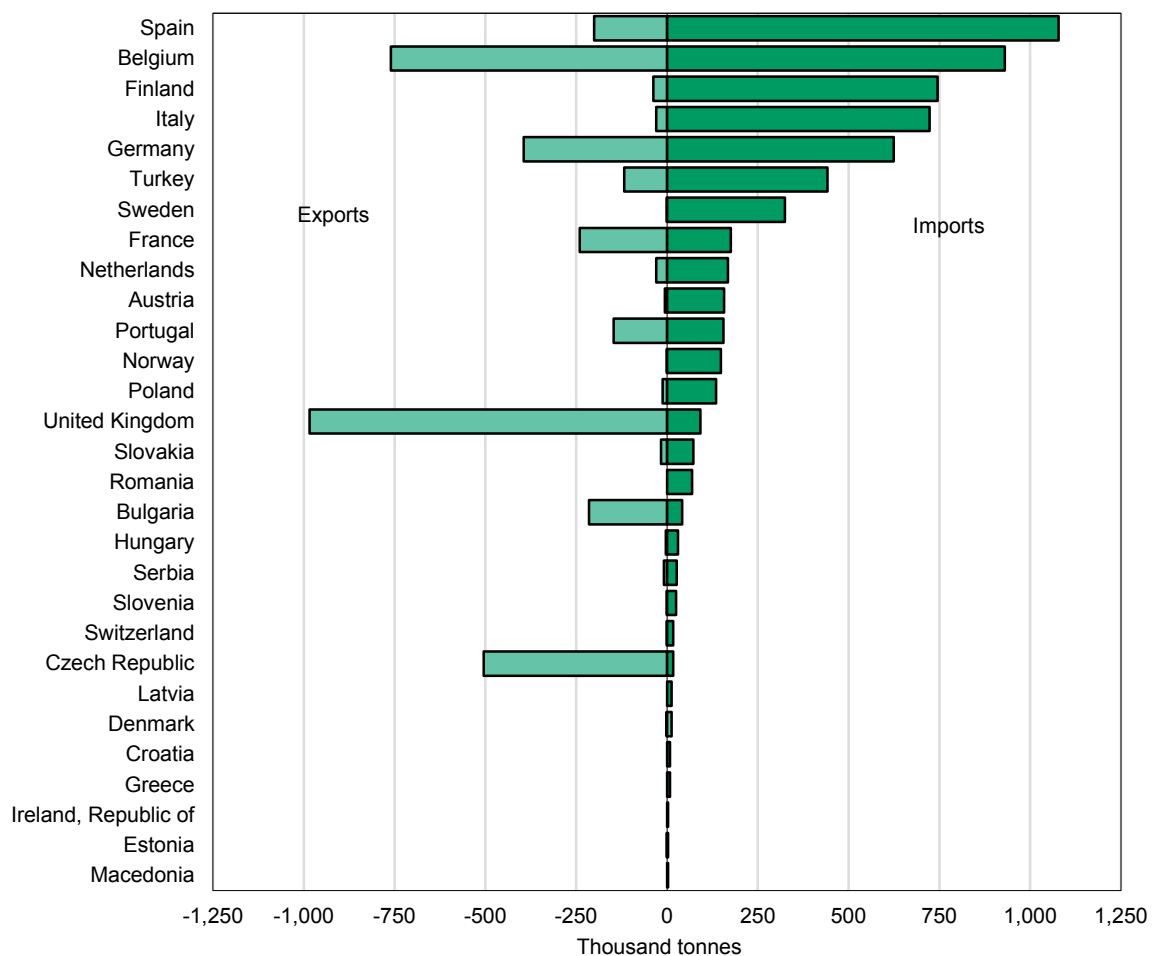
tonnes

Country	2010	2011	2012	2013	2014
France	231 779	220 764	223 649	198 892	175 767
Germany	715 770	705 107	625 826	629 989	624 461
Greece	31 132	14 336	7 454	8 808	8 254
Hungary	24 175	29 736	23 099	26 053	30 157
Ireland, Republic of	4 039	3 414	3 377	3 489	3 457
Italy	823 461	707 622	681 595	686 567	722 977
Latvia	10 594	9 289	10 768	12 151	12 593
Lithuania	486	360	480	508	619
Luxembourg	904	563	736	1 046	705
Macedonia	4 985	3 815	1 440	1 497	3 046
Netherlands	150 929	150 310	149 090	115 525	168 279
Norway	225 576	149 002	176 164	168 419	148 595
Poland	117 914	143 476	138 026	146 430	135 599
Portugal	96 851	106 955	103 863	97 034	155 804
Romania	51 754	56 871	60 170	62 370	69 190
Serbia	50 421	38 810	25 922	22 219	26 900
Slovakia	62 748	70 451	64 345	70 545	72 923
Slovenia	27 287	28 779	22 614	23 877	25 248
Spain	1 061 703	1 055 912	856 355	1 016 611	1 078 541
Sweden	367 948	389 358	359 345	316 362	324 835
Switzerland	24 249	21 460	21 551	17 924	16 830
Turkey	424 152	497 148	479 665	404 283	441 998
United Kingdom	95 865	102 396	88 505	85 534	92 426

Notes

(1) The term 'kaolin', as used here, includes kaolin and kaolinic clay

Kaolin - EU36 trade in 2014

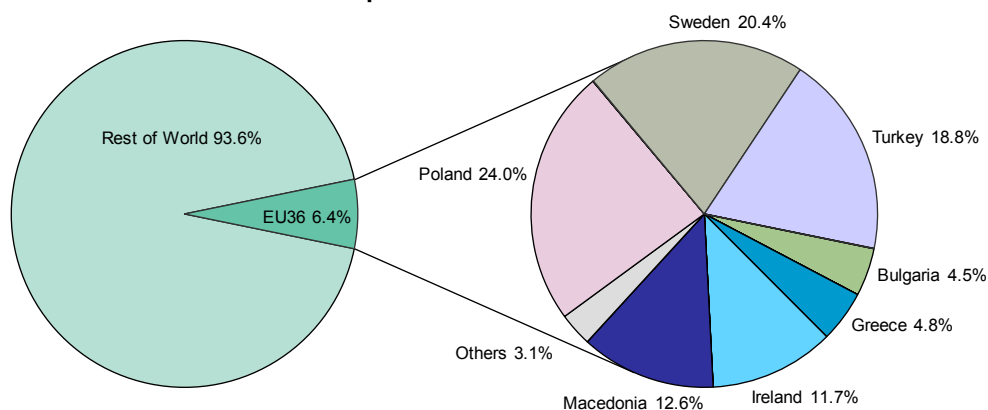




## Lead

- 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 2014, with 50 per cent of the total world output. The second largest was Australia (13 per cent), followed by USA (seven per cent), Peru and Mexico (five per cent each).
- China was also the world's largest producer of refined lead in 2014, with 45 per cent of the total world output. The second largest was USA (11 per cent), followed by India (five per cent) and Germany (four per cent).

**EU36 Mine production of lead 2014**



## Mine production of lead

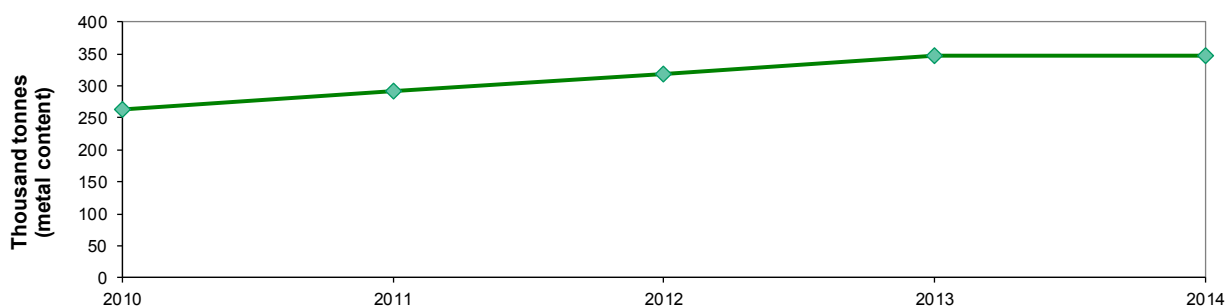
tonnes (metal content)

Country	2010	2011	2012	2013	2014
Bulgaria (a)	12 705	14 369	15 949	16 914	15 600
Greece	12 200	13 400	18 060	18 010	16 700
Ireland, Republic of	39 100	50 700	47 400	42 950	40 500
Macedonia	41 293	37 295	39 184	42 826	43 810
Montenegro	...	...	1 958	2 453	2 755
Poland	48 050	67 003	64 342	79 480	83 150
Portugal	—	—	87	1 496	3 192
Romania	* 300	* —	* 5 300	* 400	* —
Serbia	1 800	2 100	2 500	3 100	3 700
Slovakia	94	114	166	235	162
Spain	229	5 705	3 800	2 200	1 200
Sweden	67 697	62 028	63 551	59 556	70 848
Turkey	39 000	38 682	57 017	76 638	62 190
United Kingdom	(b) * 380	(c) 280	(c) 61	(b) * 100	(d) * 100
<b>EU36 total</b>	<b>262 800</b>	<b>291 700</b>	<b>319 400</b>	<b>346 400</b>	<b>343 900</b>

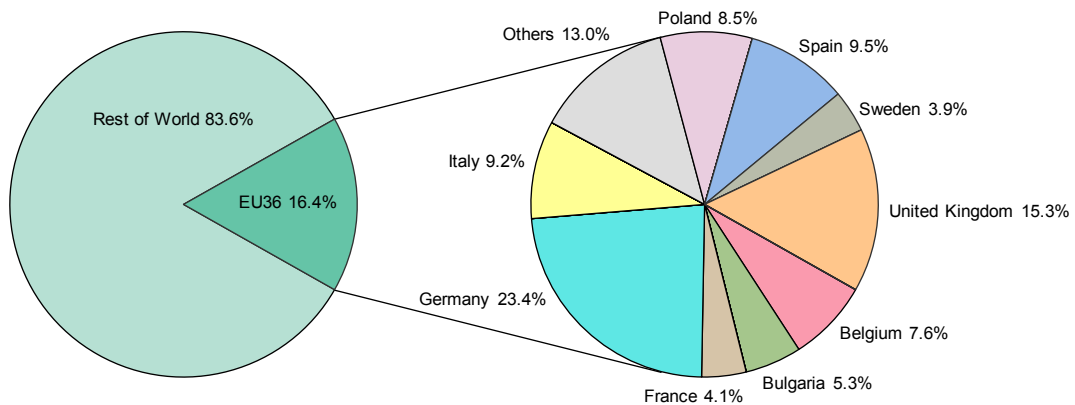
### Notes

- (a) Metal content of ore  
 (b) By-product of Pennine fluorspar operations and of gold mining in Northern Ireland  
 (c) By-product of gold mining in Northern Ireland  
 (d) By-product of Pennine fluorspar operation in Northern Ireland

**EU36 Mine production of lead 2010 - 14**



**EU36 Production of refined lead 2014**



**Production of refined lead**

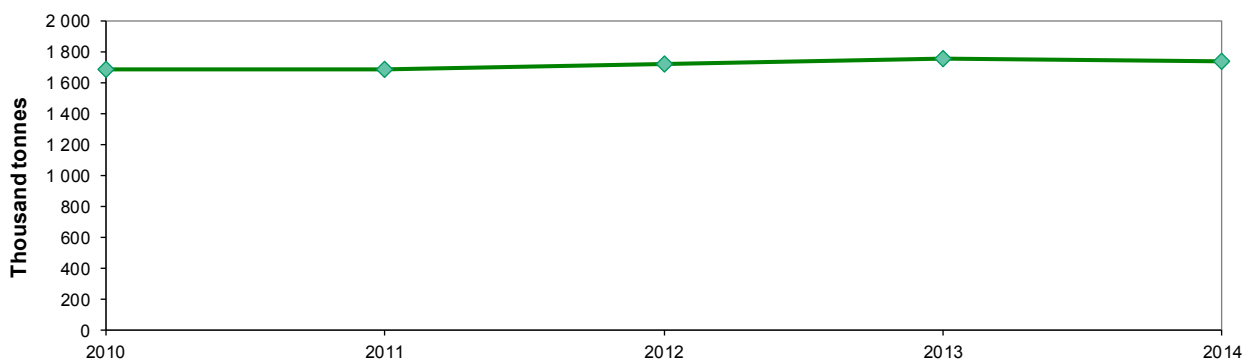
tonnes

Country	2010	2011	2012	2013	2014
Austria	25 500	26 200	24 504	38 786	37 122
Belgium	121 000	119 000	119 000	129 429	133 252
Bulgaria	98 000	90 000	85 000	90 000	92 000
Czech Republic	36 000	38 000	41 000	42 000	44 000
Estonia	7 200	7 800	8 046	7 581	8 588
France	71 000	80 000	83 000	71 000	72 000
Germany	405 400	429 100	423 000	400 000	408 000
Greece	* 11 000	* 7 000	* 6 000	* 6 000	* 6 000
Ireland, Republic of	19 000	18 000	16 000	17 000	17 200
Italy	150 000	149 500	138 400	151 000	160 000
Netherlands	27 000	27 000	27 000	27 000	31 000
Poland	120 300	121 500	141 000	145 400	149 000
Portugal	9 000	6 000	5 000	4 000	5 000
Romania	11 263	6 747	14 668	14 000	12 000
Slovenia	14 000	15 000	14 000	12 000	11 000
Spain	165 000	177 000	160 000	157 000	166 000
Sweden	59 179	52 438	61 528	68 713	68 708
Turkey	* 42 000	* 48 000	* 50 000	* 50 000	* 55 000
United Kingdom	301 000	275 000	311 930	329 200	267 000
<b>EU36 total</b>	<b>1 693 000</b>	<b>1 693 000</b>	<b>1 729 000</b>	<b>1 760 000</b>	<b>1 743 000</b>

Notes

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

**EU36 Production of refined lead 2010 - 14**



## Exports of lead

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Unwrought	2 914	1 568	1 117	811	...
Austria					
Unwrought	16 427	15 619	13 329	11 929	14 019
Scrap	871	729	983	1 521	2 053
Belgium					
Ores & concentrates	101 160	167 055	136 787	290 625	299 740
Unwrought	145 571	130 655	127 052	159 411	154 651
Scrap	21 479	18 945	18 051	17 405	19 041
Bulgaria					
Ores & concentrates	4 611	9 331	2 120	6 896	12 174
Unwrought	78 977	68 472	64 354	73 577	83 056
Croatia					
Scrap	1 697	1 842	1 906	2 051	2 051
Cyprus					
Scrap	252	465	237	1 056	1 494
Czech Republic					
Unwrought	32 743	27 649	23 614	27 893	35 027
Scrap	1 914	2 357	1 157	1 139	1 476
Denmark					
Unwrought	896	478	588	1 375	1 095
Scrap	3 485	4 118	4 167	5 165	6 160
Estonia					
Unwrought	10 624	11 513	11 042	10 334	10 739
Finland					
Scrap	340	328	1 231	1 895	2 576
France					
Unwrought	36 293	40 470	53 971	46 991	42 054
Scrap	37 654	20 392	15 936	22 573	25 668
Germany					
Ores & concentrates	4 296	19 697	60 356	14 517	—
Unwrought	203 077	196 443	178 589	146 285	187 687
Scrap	9 892	12 932	7 982	12 859	16 234
Greece					
Unwrought	5 209	3 068	11 313	7 681	9 294
Scrap	1 945	735	1 516	1 579	728
Hungary					
Scrap	1 898	2 428	1 615	2 942	2 851
Ireland, Republic of					
Ores & concentrates	62 729	64 470	80 910	70 125	71 545
Scrap	638	4 144	42 384	30 813	39 993
Italy					
Unwrought	7 821	15 455	8 646	7 058	22 609
Scrap	9 776	10 173	14 804	11 681	12 877
Latvia					
Scrap	3 243	3 086	2 687	2 362	1 911
Lithuania					
Scrap	5 941	5 335	6 603	4 019	3 734
Macedonia					
Ores & concentrates	55 482	48 959	49 055	54 266	54 989
Unwrought	801	421	685	2 136	107
Netherlands					
Ores & concentrates	63 921	94 100	46 688	41 266	63 529
Unwrought	12 971	16 989	14 432	17 260	48 573
Scrap	35 168	30 486	21 665	38 896	42 570
Norway					
Scrap	1 800	1 444	1 944	1 290	1 689
Poland					
Ores & concentrates	35 459	30 132	60 549	56 766	75 580
Unwrought	43 945	59 599	62 941	62 616	88 648
Scrap	1 668	1 010	1 392	1 282	1 304
Portugal					
Ores & concentrates	...	...	91	3 685	10 871
Unwrought	8 785	8 050	5 124	3 952	5 340
Scrap	1 710	1 855	1 363	3 639	1 866

## Lead

## Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Romania					
Ores & concentrates	9 096	5 952	11 051	1 631	1 374
Unwrought	10 573	18 722	18 859	21 331	19 305
Scrap	5 659	6 846	5 419	3 884	11 269
Serbia					
Ores & concentrates	10 265	13 981	13 479	14 917	14 150
Unwrought	5 661	7 848	5 777	1 847	55
Slovakia					
Unwrought	250	539	373	1 577	4 178
Scrap	662	737	759	1 258	1 218
Slovenia					
Unwrought	8 090	6 008	5 391	5 995	5 963
Spain					
Ores & concentrates	9 513	24 677	50 216	45 055	45 576
Unwrought	6 630	15 683	37 882	13 350	9 434
Scrap	6 781	5 029	3 361	7 505	3 436
Sweden					
Ores & concentrates	111 153	73 996	68 646	43 506	64 208
Unwrought	55 501	54 370	51 796	71 771	66 869
Scrap	1 445	1 471	1 425	1 113	9 181
Switzerland					
Scrap	5 497	5 732	5 301	4 424	4 407
Turkey					
Ores & concentrates	64 247	65 917	93 590	130 217	109 067
Unwrought	400	802	2 522	1 726	922
United Kingdom					
Unwrought	105 235	144 877	169 739	144 718	150 270
Unwrought alloys	62 406	4 820	6 050	5 521	3 006
Scrap	69 404	74 789	57 990	53 746	56 432

## Notes

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

## Imports of lead

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Unwrought	19 391	31 675	29 938	40 143	45 566
Scrap	264	837	558	1 560	1 260
Belgium					
Ores & concentrates	169 356	154 976	139 771	214 596	213 749
Unwrought	14 467	27 696	77 349	33 247	48 052
Scrap	31 992	33 219	26 023	24 479	29 470
Bulgaria					
Ores & concentrates	81 307	74 810	72 008	74 199	80 553
Unwrought	7 283	21 566	21 064	23 536	12 439
Scrap	17 462	4 627	1 660	11 050	16 660
Czech Republic					
Unwrought	81 762	36 233	60 258	104 236	125 855
Scrap	2 901	2 763	2 560	4 177	4 889
Denmark					
Scrap	2 890	1 989	2 655	2 601	3 188
Finland					
Unwrought	1 512	2 446	3 821	4 146	4 245
France					
Unwrought	34 090	39 305	38 918	42 523	46 479
Scrap	12 848	15 182	14 265	2 941	3 273
Germany					
Ores & concentrates	184 018	205 464	228 444	258 922	266 438
Unwrought	157 301	157 653	148 576	149 465	144 872
Scrap	39 653	35 823	28 058	28 091	26 409

## Imports continued

tonnes

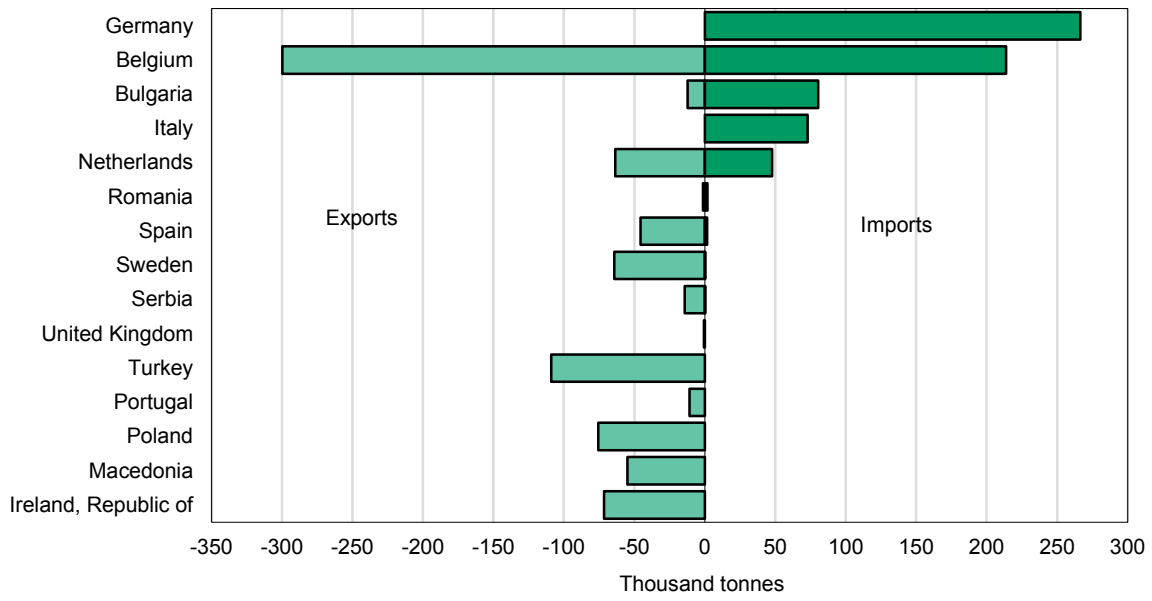
Country	2010	2011	2012	2013	2014
Greece					
Unwrought	11 149	16 980	17 028	16 937	22 195
Scrap	1 692	2 136	2 183	915	1 032
Hungary					
Unwrought	6 138	9 497	11 372	8 710	9 751
Ireland, Republic of					
Unwrought	14 357	15 345	5 199	2 916	3 586
Scrap	12 074	12 305	14 089	16 874	16 884
Italy					
Ores & concentrates	20	0	9 419	39 748	73 037
Unwrought	111 301	109 458	89 266	71 393	93 413
Scrap	2 609	4 976	4 111	3 059	2 904
Latvia					
Scrap	93	1 221	502	922	3 808
Lithuania					
Scrap	4 459	5 755	1 892	3 350	982
Macedonia					
Unwrought	395	479	268	2 313	1 936
Netherlands					
Ores & concentrates	1 558	8 083	29 375	7 383	47 770
Unwrought	8 717	8 496	4 020	5 484	5 561
Scrap	21 255	16 886	15 622	10 578	8 823
Norway					
Unwrought	6 449	7 713	8 071	9 630	8 902
Poland					
Unwrought	46 810	52 011	42 108	44 237	51 216
Scrap	7 154	6 673	4 980	10 330	11 539
Portugal					
Unwrought	5 593	9 403	8 661	13 630	13 263
Scrap	395	266	1 113	5 026	953
Romania					
Ores & concentrates	7 052	9 420	463	831	1 861
Unwrought	11 834	16 789	12 777	14 707	14 090
Serbia					
Ores & concentrates	5 978	8 127	2 642	1 475	5
Unwrought	6 018	5 302	9 163	3 862	2 486
Scrap	1 228	2 643	2 087	45	...
Slovakia					
Unwrought	136	563	697	252	2 583
Slovenia					
Unwrought	16 025	17 594	17 294	21 844	27 402
Scrap	3 812	3 611	3 741	4 117	5 055
Spain					
Ores & concentrates	10 946	6 698	4 651	1 536	1 682
Unwrought	110 316	114 428	122 913	110 576	94 173
Scrap	43 432	42 236	34 702	35 284	32 249
Sweden					
Ores & concentrates	14 763	—	—	—	10
Unwrought	5 340	5 783	6 616	6 876	6 235
Scrap	9 464	8 401	9 624	9 282	9 572
Switzerland					
Unwrought	5 664	2 838	5 519	3 186	2 372
Turkey					
Unwrought	73 057	85 131	99 137	91 337	105 082
United Kingdom					
Unwrought	166 830	147 579	189 605	171 169	130 199
Scrap	8 858	4 792	3 317	4 169	7 236

## Notes

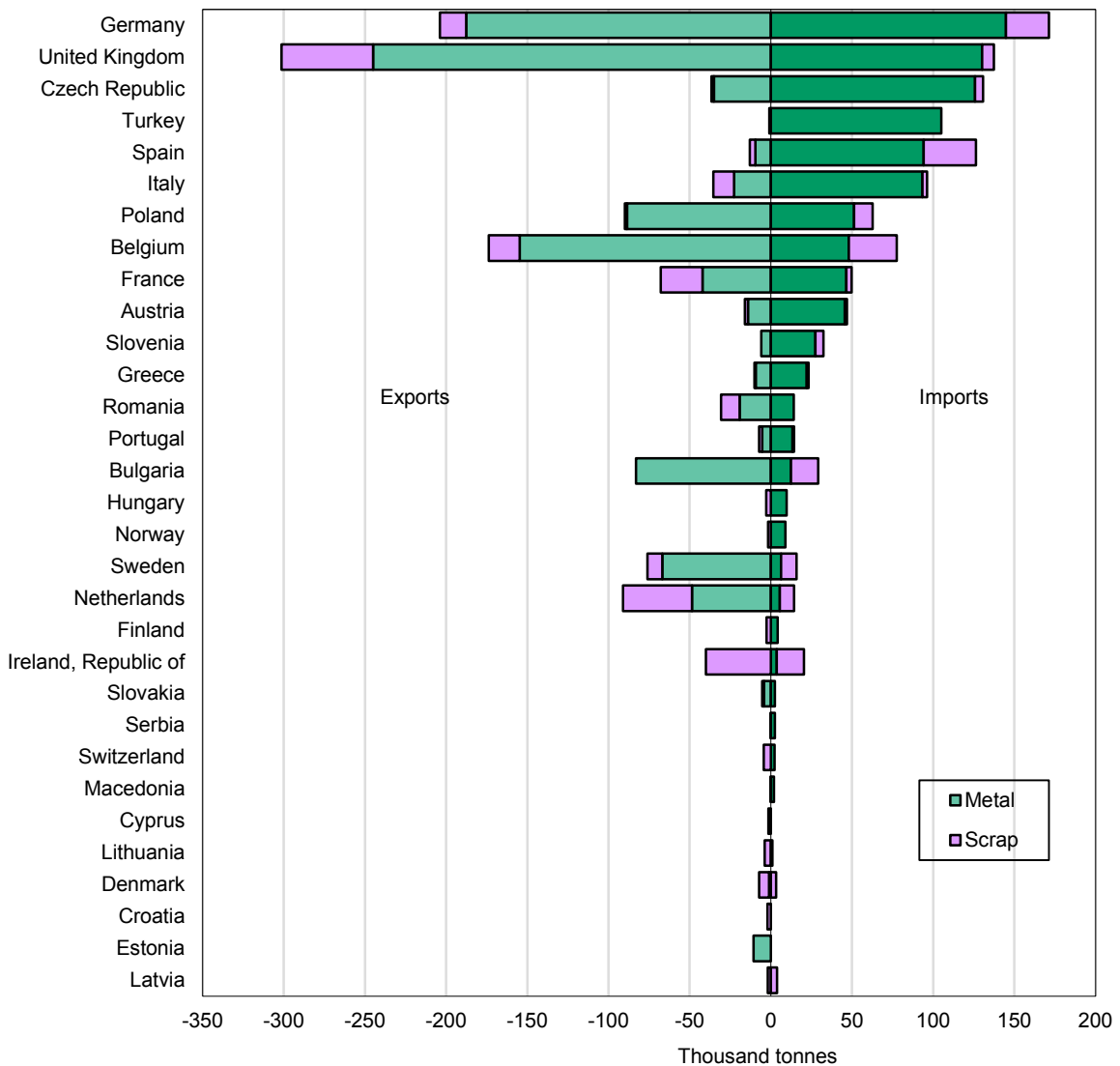
(1) In this table the term 'unwrought' lead corresponds to item 7801 of the Harmonised System and comprises base bullion, pigs, unwrought bars, etc.

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

Lead ore - EU36 trade in 2014



Lead - EU36 trade in 2014



## 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 2014, with an estimated 44 per cent of the total world output, which was entirely from brine extraction. The second largest was Australia (32 per cent, entirely from minerals), followed by Argentina (11 per cent, from brine), and China (five per cent, from both minerals and brine).

### Production of lithium minerals

tonnes

Country	2010	2011	2012	2013	2014
Portugal					
Lepidolite	40 109	37 534	20 698	19 940	17 459
Spain					
Lepidolite	7 824	—	—	—	—

### Exports of lithium

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Carbonate	170	166	9	13	24
Belgium					
Oxides	2 284	1 890	2 320	2 380	2 442
Carbonate	4 539	4 428	4 985	6 736	5 549
France					
Oxides	46	108	103	72	114
Germany					
Carbonate	2 387	2 927	2 259	2 809	3 043
Italy					
Carbonate	49	105	73	84	133
Netherlands					
Oxides	116	365	303	492	314
Carbonate	160	300	567	266	229
Spain					
Carbonate	176	268	100	2 477	6 770
Switzerland					
Oxides	190	1	83	91	92
United Kingdom					
Oxides	144	7	41	39	65
Carbonate	123	50	102	86	138

### Imports of lithium

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Carbonate	402	463	359	298	340
Belgium					
Oxides	2 410	2 953	2 515	3 179	2 389
Carbonate	4 183	7 770	7 205	6 403	4 406
Denmark					
Carbonate	340	358	80	63	63
France					
Oxides	570	479	547	505	581
Carbonate	1 137	2 792	1 756	1 162	1 371
Germany					
Oxides (a)	* 1 800	* 1 700	* 1 300	* 1 600	* 1 766
Carbonate	6 486	5 735	6 064	5 977	6 015

## Lithium

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Italy					
Oxides	175	148	143	121	160
Carbonate	1 123	1 369	1 052	1 241	1 116
Netherlands					
Oxides	290	494	201	229	188
Carbonate	431	527	462	524	542
Poland					
Oxides	86	114	141	100	137
Carbonate	175	177	177	165	186
Slovenia					
Oxides	95	125	190	298	332
Spain					
Oxides	1 007	706	763	645	647
Carbonate	3 239	3 877	2 638	2 905	2 765
Sweden					
Oxides	214	243	213	235	218
Carbonate	87	69	159	126	136
Switzerland					
Oxides	118	141	98	136	101
Turkey					
Oxides	268	261	236	273	238
Carbonate	770	865	1 006	1 304	1 598
United Kingdom					
Oxides	218	215	119	281	384
Carbonate	427	376	344	364	434

## Notes

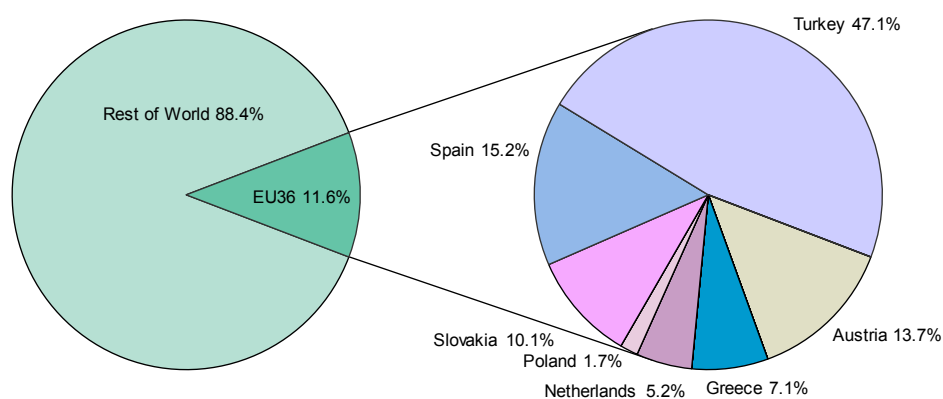
(a) BGS estimates, based on known exports into certain countries



## 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 2014, with 78 per cent of the total world output. The second largest were Russia and Turkey (with five per cent each), followed by Spain and Austria (with two per cent each).

**EU36 Production of magnesite 2014**



## Production of magnesite

tonnes

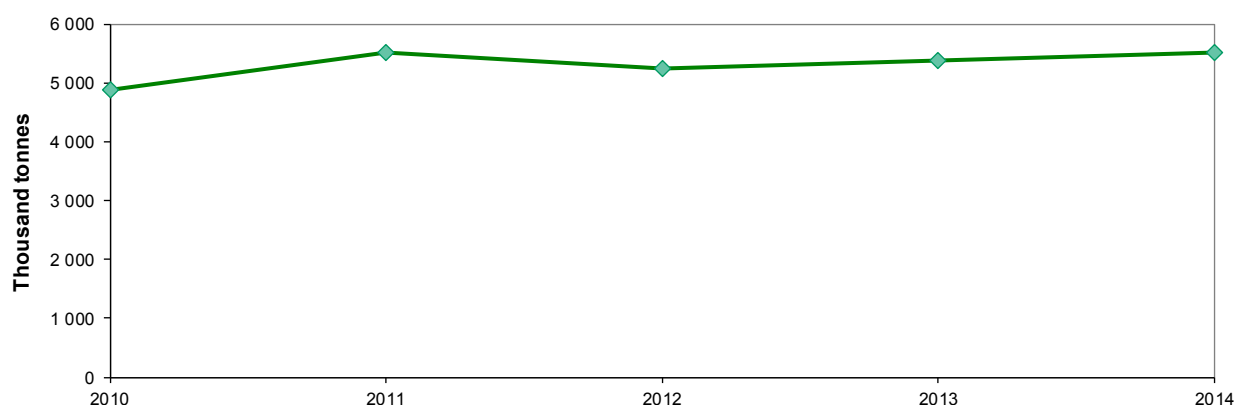
Country	2010	2011	2012	2013	2014
Austria	757 063	867 912	778 810	714 422	754 096
Greece	396 497	393 880	349 998	314 770	391 140
Netherlands (a)	236 053	274 877	290 873	249 568	285 907
Poland	63 000	75 350	83 860	97 000	92 000
Slovakia	650 100	751 700	618 400	584 000	557 100
Spain	462 959	577 725	649 977	836 269	840 000
Turkey	2 316 763	2 588 276	2 475 828	2 597 465	* 2 600 000
<b>EU36 total</b>	<b>4 882 000</b>	<b>5 530 000</b>	<b>5 248 000</b>	<b>5 393 000</b>	<b>5 520 000</b>

### Notes

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

(a) Chloride produced from solution mining

**EU36 Production of magnesite 2010 - 14**



**Exports of magnesite and magnesite**

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Magnesite	989	780	774	559	488
Magnesia	39 589	79 519	71 453	70 253	64 204
Belgium					
Magnesite	1 235	914	150	2 469	1 318
Magnesia	96 513	58 237	49 561	17 793	10 618
Bulgaria					
Magnesite	—	537	241	94	148
Czech Republic	3 809	7 096	5 997	4 690	3 675
Denmark					
Magnesia	522	497	179	437	376
Finland					
Magnesite	11	—	—	—	12 275
France					
Magnesite	274	207	250	195	458
Magnesia	52 553	35 543	38 098	53 989	61 368
Germany					
Magnesite	229	1 303	381	474	1 379
Magnesia	94 198	67 605	73 154	84 986	96 136
Greece					
Magnesite	...	8 766	4 012	1 268	10 055
Magnesia	108 020	110 276	87 550	98 204	87 520
Hungary					
Magnesia	...	317	309	643	172
Ireland, Republic of					
Magnesite	3 383	18 665	13 218	4 114	16 568
Magnesia	33 334	11 761	3 465	41 749	61 343
Italy					
Magnesite	2 535	3 236	2 902	2 305	3 372
Magnesia	7 393	6 194	7 283	7 237	6 997
Lithuania					
Magnesia	717	352	350	294	239
Luxembourg					
Magnesite	943	1 325	1 171	1 081	778
Netherlands					
Magnesite	423	744	31	99	1 304
Magnesia	139 516	402 976	370 287	273 416	266 591
Poland					
Magnesia	1 013	550	3 303	5 873	6 066
Portugal					
Magnesite	11	1	716	503	4 988
Magnesia	4	1	528	712	708
Romania					
Magnesia	460	212	412	309	248
Serbia					
Magnesite	1 851	1 524	1 852	2 551	2 448
Magnesia	328	5 831	8 704	3 283	4 167
Slovakia					
Magnesite (a)	* 8 400	* 4 900	* 3 800	* 2 600	* 2 700
Magnesia	336 786	340 612	272 677	266 320	266 297
Slovenia					
Magnesite	4 798	78	22	20	30
Magnesia	334	259	9 577	125 735	123 173
Spain					
Magnesite	410	573	1 081	798	970
Magnesia	222 825	256 523	256 824	234 020	233 754
Sweden					
Magnesia	303	165	130	69	109
Turkey					
Magnesite	24 213	37 902	28 747	38 569	22 746
Magnesia	209 633	238 620	245 537	266 279	231 851

Exports continued					tonnes
Country	2010	2011	2012	2013	2014
United Kingdom					
Magnesite	470	745	1 163	1 744	1 266
Magnesia	14 497	28 042	14 869	14 017	11 531

## Notes

(1) The term 'magnesita', 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 magnesita					tonnes
Country	2010	2011	2012	2013	2014
Austria					
Magnesite	848	1 512	1 069	489	213
Magnesia	272 232	214 788	180 117	219 973	239 362
Belgium					
Magnesite	3 820	2 076	643	800	611
Magnesia	80 845	70 954	58 355	46 379	33 152
Bulgaria	5 678	11 378	6 204	6 125	8 317
Croatia	1 208	1 061	710	2 019	1 083
Czech Republic					
Magnesite	7 108	4 578	5 270	3 386	1 837
Magnesia	38 862	40 975	43 235	46 261	58 249
Denmark					
Magnesite	2 728	2 299	1 784	2 000	722
Magnesia	4 636	4 927	5 219	4 187	3 705
Estonia					
Magnesia	297	382	380	528	596
Finland					
Magnesite	118	576	568	264	—
Magnesia	7 387	9 214	8 959	8 074	8 153
France					
Magnesite	784	1 087	4 013	3 948	2 402
Magnesia	126 821	127 469	115 590	131 742	138 689
Germany					
Magnesite	12 751	5 625	5 285	4 637	5 018
Magnesia	473 545	515 139	496 202	535 966	520 831
Greece					
Magnesite	3 603	14 704	14 475	21 012	15 425
Magnesia	2 198	7 506	1 442	882	899
Hungary					
Magnesite	1 331	1 499	1 124	1 351	722
Magnesia	6 783	4 369	4 739	6 291	6 444
Iceland	1	3	2	365	232
Ireland, Republic of					
Magnesite	5 535	6 333	1 731	7 853	2 054
Magnesia	39 638	49 122	48 779	43 182	44 472
Italy					
Magnesite	21 454	27 347	13 774	8 223	5 153
Magnesia	143 725	133 451	120 185	105 816	107 610
Latvia					
Magnesia	5 524	2 735	12 507	3 596	1 328
Lithuania					
Magnesia	1 245	593	1 159	939	1 022
Luxembourg	2 612	2 375	3 805	2 116	2 187
Macedonia	11 266	9 418	5 547	2 115	5 533
Netherlands					
Magnesite	459	3 115	195	645	2 001
Magnesia	345 154	458 372	340 922	235 685	187 691
Norway					
Magnesia	10 987	8 714	9 795	8 060	6 830

Magnesite and magnesia

Imports continued

tonnes

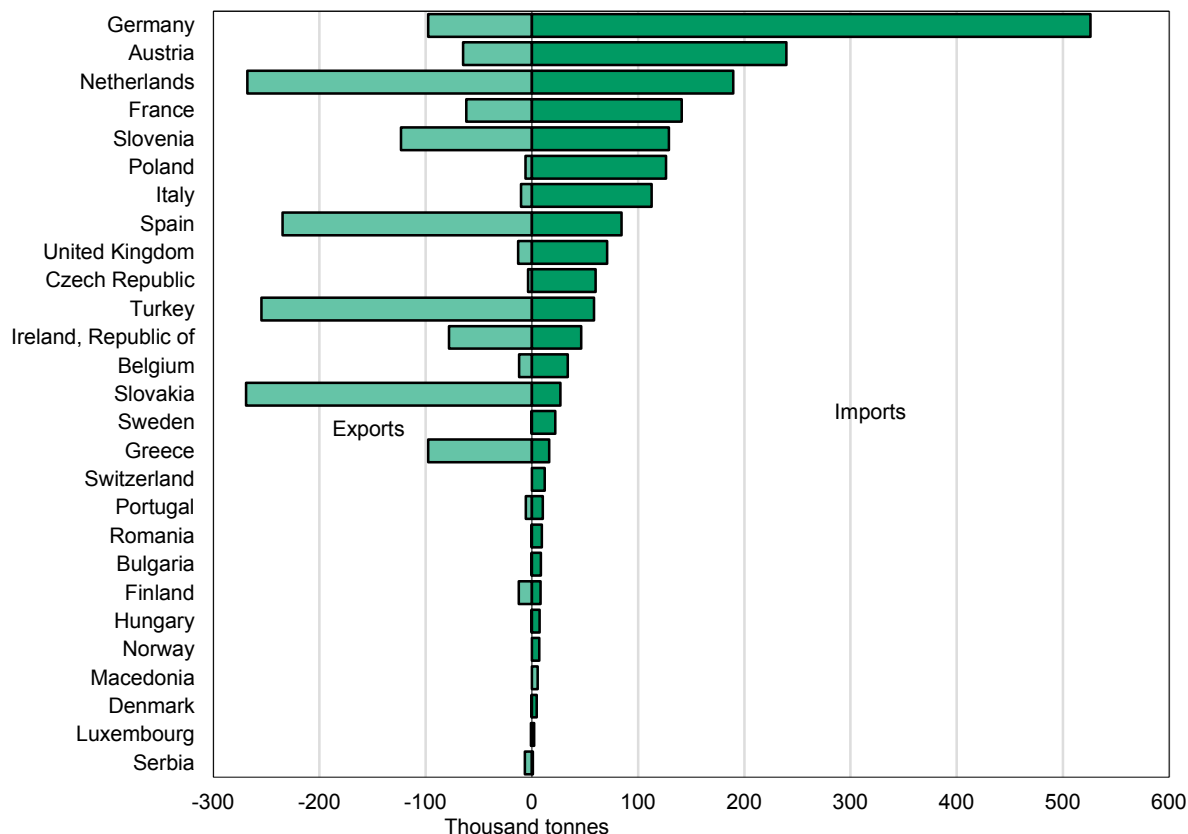
Country	2010	2011	2012	2013	2014
Poland					
Magnesite	3 966	1 375	1 948	659	590
Magnesia	113 757	137 148	116 632	103 475	125 579
Portugal					
Magnesite	1 162	1 379	1 249	1 652	801
Magnesia	4 504	5 523	7 130	9 037	9 406
Romania					
Magnesia	10 389	13 391	11 402	8 838	9 393
Serbia					
Magnesia	570	547	623	899	907
Slovakia					
Magnesite	3 916	4 960	(a)* 2 000	(a)* 3 000	(a)* 1 766
Magnesia	28 639	27 100	23 363	20 405	25 213
Slovenia	7 279	64 675	109 365	128 518	129 116
Spain					
Magnesite	3 926	6 164	2 675	2 189	13 109
Magnesia	99 436	105 674	91 916	65 530	71 435
Sweden					
Magnesia	12 004	20 425	19 081	18 068	21 886
Switzerland					
Magnesite	362	793	521	1 122	50
Magnesia	4 625	4 917	5 734	13 961	12 034
Turkey					
Magnesia	60 121	58 556	50 199	56 723	58 607
United Kingdom					
Magnesite	8 640	7 903	5 059	5 015	5 258
Magnesia	49 076	52 263	70 330	69 822	65 730

Notes

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

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

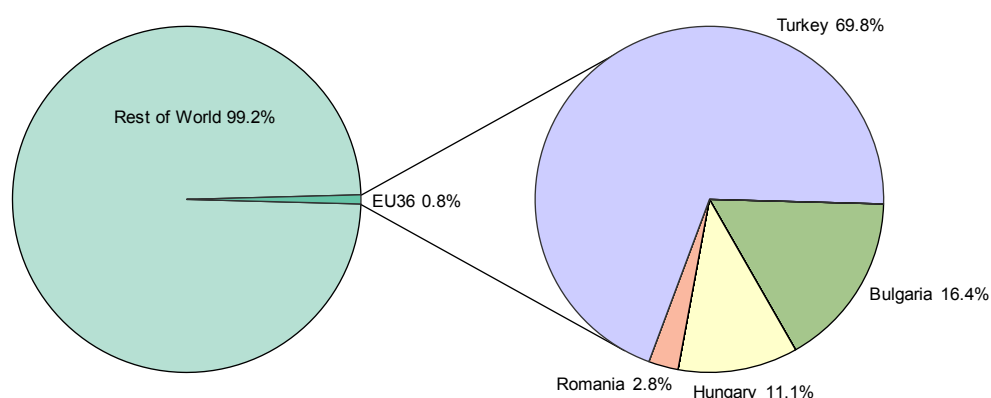
Magnesite and magnesia - EU36 trade in 2014



## 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 2014, with an estimated 29 per cent of the total world output. The second largest was South Africa (25 per cent), followed by Australia (14 per cent), Gabon (seven per cent), Kazakhstan and Brazil (with five per cent each).

**EU36 Production of manganese ore 2014**

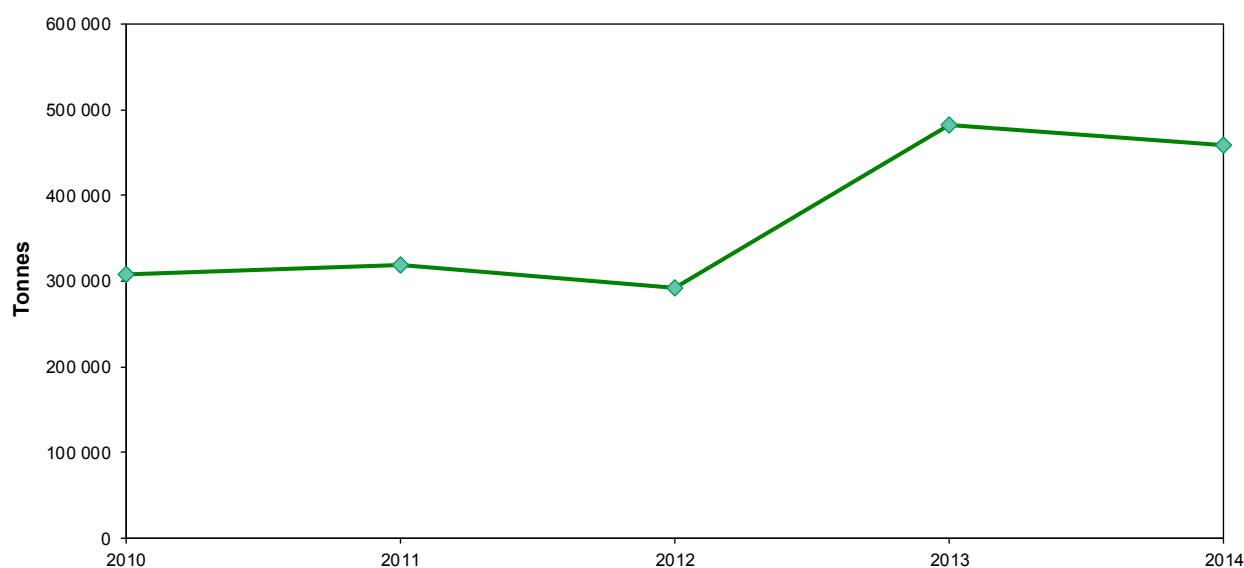


## Production of manganese ore

tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	106 000	85 600	39 100	103 600	* 75 000
Hungary	55 000	58 000	51 000	35 000	51 000
Romania	13 120	3 180	8 993	21 300	12 662
Turkey	134 336	172 480	192 756	321 785	* 320 000
<b>EU36 total</b>	<b>308 000</b>	<b>319 000</b>	<b>292 000</b>	<b>482 000</b>	<b>459 000</b>

**EU36 Production of manganese ore 2010 - 14**



## Manganese

**Exports of manganese**

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Ores & concentrates	4 444	9 982	4 236	7 751	5 003
Metal	1 185	1 625	1 447	2 959	4 828
Bulgaria					
Ores & concentrates	163 257	91 110	76 140	50 390	73 996
Czech Republic					
Ores & concentrates	—	50	383	65	32
Finland					
Metal	32	25	2	1	1 179
France					
Ores & concentrates (a)	152 425	125 827	118 915	130 333	36 460
Metal	717	805	1 081	582	135
Germany					
Ores & concentrates	4 480	5 035	4 387	4 114	3 215
Metal	8 243	8 907	13 598	9 758	10 285
Italy					
Metal	716	963	897	600	470
Netherlands					
Ores & concentrates	21 806	29 097	27 154	30 072	29 303
Metal	38 159	44 310	29 855	26 866	27 634
Norway					
Ores & concentrates	10 709	2 600	39 355	8 211	2 100
Metal	112	462	95	0	—
Poland					
Metal	2 875	41	97	198	313
Romania					
Ores & concentrates	...	...	9 085	6 623	23 231
Slovakia					
Ores & concentrates	—	7 508	—	—	3 029
Spain					
Ores & concentrates	707	623	621	5 367	1 537
Metal	1 297	1 735	4 665	3 880	4 106
Turkey					
Ores & concentrates	51 731	100 172	118 953	310 479	126 140
Metal	4 952	12	3 535	1 468	943
United Kingdom					
Ores & concentrates	97	129	101	284	3 983
Metal (b)	* 2 000	* 2 100	* 1 600	* 1 200	* 700

## Notes

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

(a) Including manganiferous iron ore

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

**Imports of manganese**

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Ores & concentrates	152	334	222	198	223
Metal	16 696	21 123	21 692	20 665	25 822
Belgium					
Ores & concentrates	49 731	49 393	50 509	51 271	49 950
Metal	4 377	5 466	4 636	5 946	10 178
Bulgaria					
Ores & concentrates	5	133	—	7 893	2 523
Czech Republic					
Ores & concentrates	25 758	28 810	335	14 189	18 671
Metal	984	907	521	629	746
Denmark					
Ores & concentrates	257	1 051	352	566	804
Estonia					
Metal	576	85	—	71	24

## Imports continued

tonnes

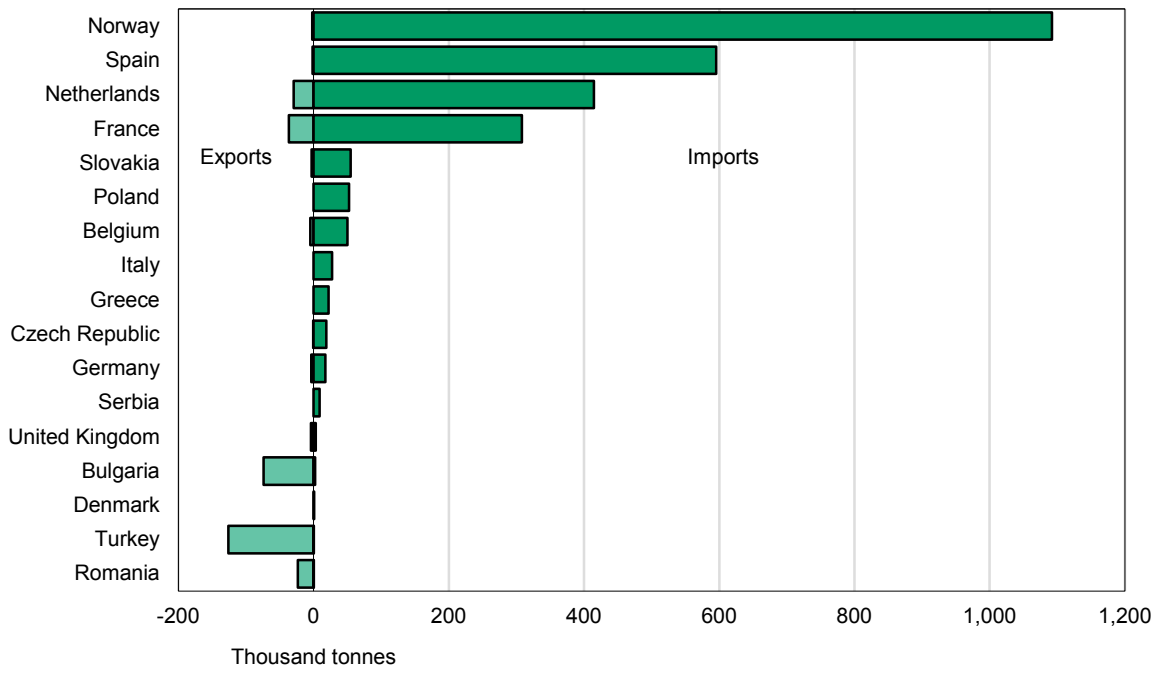
Country	2010	2011	2012	2013	2014
Finland					
Ores & concentrates	21 961	3 792	329	248	229
Metal	2 134	2 123	2 144	1 747	1 818
France					
Ores & concentrates (a)	721 272	647 182	562 298	572 043	308 163
Metal	17 586	21 186	9 231	10 304	11 272
Germany					
Ores & concentrates (a)	17 346	19 137	18 532	18 872	17 359
Metal	43 346	40 705	35 671	32 039	34 320
Greece					
Ores & concentrates	22 888	51 374	26 294	22 943	22 304
Metal	292	175	855	1 029	1 623
Hungary					
Ores & concentrates	198	159	142	304	229
Metal	336	461	500	589	659
Ireland, Republic of					
Ores & concentrates (a)	54	9 565	31	19	37
Italy					
Ores & concentrates (a)	55 284	81 629	107 907	27 243	27 243
Metal	5 788	5 759	5 804	6 274	5 095
Latvia					
Ores & concentrates	27	92	97	200	201
Macedonia					
Ores & concentrates	56 893	110 589	42 109	503	70
Netherlands					
Ores & concentrates	23 045	33 555	66 281	38 141	414 471
Metal	50 866	35 618	40 131	30 706	25 735
Norway					
Ores & concentrates	1 121 716	1 085 383	1 072 991	992 832	1 092 278
Metal	1 974	2 697	1 636	2 158	1 851
Poland					
Ores & concentrates	4 345	4 509	4 951	5 459	52 330
Metal	1 514	436	764	1 030	1 378
Portugal					
Ores & concentrates	68	56	168	38	205
Romania					
Ores & concentrates	87 880	66 285	244	13	77
Metal	220	588	415	517	698
Serbia					
Ores & concentrates	17 003	14 366	4 229	5 829	8 780
Metal	324	317	254	184	183
Slovakia					
Ores & concentrates	146 434	130 519	144 936	127 764	54 955
Metal	442	659	228	207	304
Slovenia					
Metal	433	420	483	417	486
Spain					
Ores & concentrates	407 450	508 794	413 613	542 836	595 513
Metal	7 510	10 951	6 470	7 047	8 461
Sweden					
Ores & concentrates	522	438	412	504	535
Metal	3 815	5 241	3 438	4 838	5 889
Switzerland					
Ores & concentrates	214	333	357	181	207
Metal	556	509	490	385	284
Turkey					
Ores & concentrates	694	1 295	534	529	565
Metal	980	1 202	863	1 356	1 890
United Kingdom					
Ores & concentrates (a)	1 517	1 656	1 597	2 168	3 232
Metal	6 619	5 444	3 721	3 796	3 629

## Notes

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

(a) Including manganiferous iron ore

### Manganese ores and concentrates - EU36 trade in 2014





## 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 2014. China was the world's largest producer, with 78 per cent of the total world output. The second largest was Mexico (10 per cent), followed by Tajikistan (four per cent), Russia and Kyrgyzstan (two per cent each).

### Production of mercury

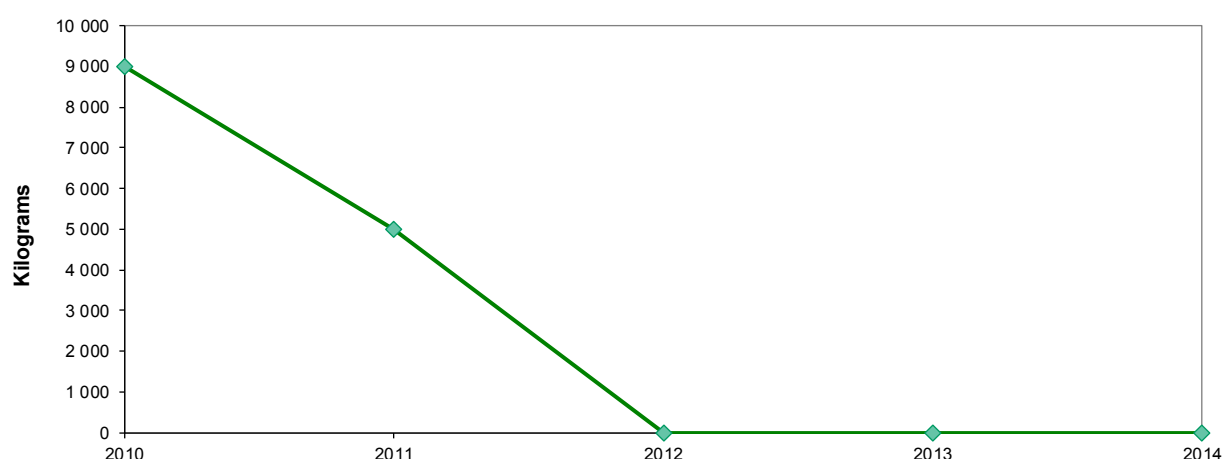
kilograms

Country	2010	2011	2012	2013	2014
Finland	9 000	5 000	—	—	—

#### Notes

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

### EU36 Production of mercury 2010 - 14



### Exports of mercury

kilograms

Country	2010	2011	2012	2013	2014
Austria (a)	* 3 300	* 1 600	* 500	* 200	* 400
Belgium	11 500	600	8 700	7 900	110
Finland	9 321	4 830	—	—	—
France	1 595	49 992	2 233	1 092	1 216
Germany	110 405	197 989	102 650	133 626	57 942
Hungary	6 400	10 700	6 500	22 800	4 100
Italy	202 273	68 623	12 706	8 743	1 322
Netherlands	195 272	72 020	67 263	64 995	1 806
Poland	106 100	7 300	—	—	—
Portugal	200	6 700	25 600	—	—
Spain	964 922	824 421	950 824	1 008 952	1 123 184
Switzerland	8 529	53 581	164 517	132 596	87 222
Turkey	2 156	10 890	4 392	1 245	6 690
United Kingdom	9 321	5 368	2 991	3 405	10 421

#### Notes

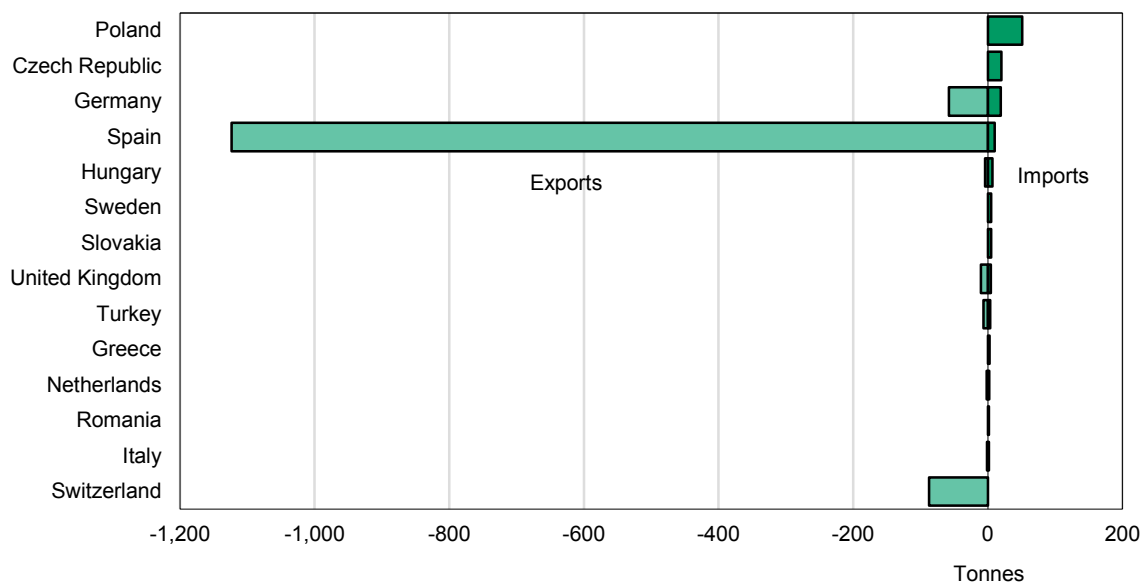
(a) BGS estimates, based on known imports into certain countries

## Imports of mercury

kilograms

Country	2010	2011	2012	2013	2014
Belgium	57 200	12 500	505	707	200
Czech Republic	2 561	6 651	3 842	3 783	20 046
Finland	2 203	4 069	36	17	31
France	19 073	1 406	252	180	402
Germany	104 241	134 666	52 469	46 484	19 254
Greece	211	1 200	7 500	900	2 400
Hungary	5 000	8 400	6 100	5 400	6 900
Ireland, Republic of	8 582	24	81	69	89
Italy	10 510	15 246	4 247	1 863	1 579
Netherlands	30 636	213 259	154 983	124 697	2 122
Poland	4 300	39 900	13 700	31 300	50 900
Portugal	152 900	125 400	59	18	30
Romania	18 149	19 500	4 200	2 600	1 800
Slovakia	4 700	27 700	10 000	3 000	5 000
Spain	335 852	54 748	54 994	70 325	10 054
Sweden	2 700	2 400	1 400	1 200	5 000
Switzerland	1 370	471	5 096	246	—
Turkey	719	9 772	3 143	1 490	3 476
United Kingdom	22 065	425	21 138	41 836	4 259

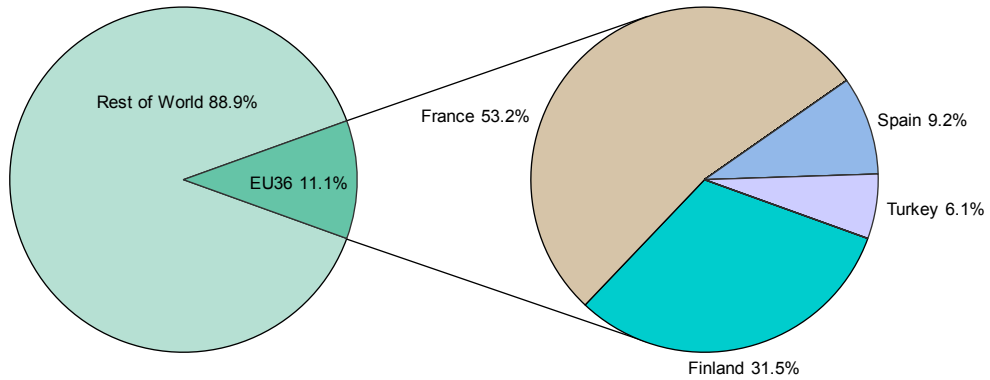
Mercury - EU36 trade in 2014



# 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 2014, with an estimated 46 per cent of the total world output. The second largest was USA (14 per cent), followed by South Korea (seven per cent), France (six per cent) and Canada (five per cent).

**EU36 Production of mica 2014**



## Production of mica

tonnes

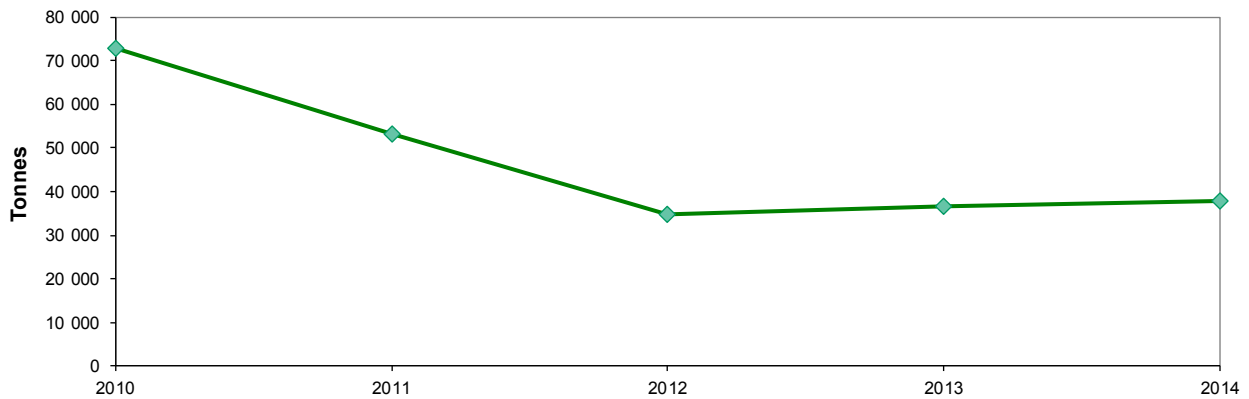
Country	2010	2011	2012	2013	2014
Finland	13 809	12 896	12 112	11 244	11 973
France (a)	* 19 000	* 19 000	* 18 000	* 19 700	* 20 200
Spain (a)	4 034	3 609	3 518	3 462	3 500
Turkey	36 009	17 542	1 253	2 304	* 2 300
<b>EU36 total</b>	<b>73 000</b>	<b>53 000</b>	<b>35 000</b>	<b>37 000</b>	<b>38 000</b>

**Notes**

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

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

**EU36 Production of mica 2010 - 14**



**Exports of mica**

tonnes

Country	2010	2011	2012	2013	2014
Austria	4 303	4 245	4 024	3 554	3 411
Belgium	1 590	2 363	3 587	2 561	3 110
Czech Republic	96	163	212	82	56
Finland	11 377	8 636	9 242	11 073	7 909
France	12 455	12 821	11 771	13 352	13 200
Germany	4 197	4 479	4 474	6 157	4 774
Italy	697	1 014	1 138	1 336	1 440
Netherlands	1 687	2 396	1 986	1 897	2 246
Norway	2 078	2 144	2 093	2 447	2 289
Spain					
Unmanufactured	1 339	1 846	1 826	1 904	2 075
Ground	2 269	2 193	1 993	613	923
Turkey	601	1 039	1 054	624	572
United Kingdom	4 137	4 238	3 639	4 679	4 714

## Notes

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

**Imports of mica**

tonnes

Country	2010	2011	2012	2013	2014
Austria	874	656	625	493	339
Belgium					
Unmanufactured	2 636	2 395	4 331	1 893	2 402
Ground	4 086	4 722	3 314	3 803	3 452
Waste	8	120	1 212	929	1 114
Czech Republic	2 513	740	915	604	901
Denmark	237	150	148	185	165
Finland	3 647	3 351	2 267	208	265
France					
Unmanufactured	255	848	488	541	393
Ground	1 861	2 149	1 828	1 941	1 649
Germany					
Unmanufactured	1 330	10 527	8 934	7 986	8 043
Ground	29 716	26 405	24 116	24 104	26 407
Waste	428	20	—	—	—
Greece	169	175	155	211	165
Ireland, Republic of	77	24	32	43	1 151
Italy					
Unmanufactured	136	209	205	187	141
Ground	3 854	3 849	3 489	3 329	3 572
Netherlands					
Unmanufactured	191	419	418	540	158
Ground	21 756	20 744	4 632	4 504	5 565
Waste	748	462	24	0	...
Norway					
Unmanufactured	1 224	1 573	1 964	2 027	500
Ground	1 179	294	285	193	797
Waste	...	...	82	355	896
Poland	1 150	2 019	1 504	1 459	1 711
Portugal	284	288	258	263	219
Romania	785	1 077	810	1 039	841
Spain	1 183	1 538	1 017	1 538	1 819
Sweden	673	545	419	429	488
Switzerland	1 226	866	893	630	713
Turkey	317	508	285	483	407

## Imports continued

tonnes

Country	2010	2011	2012	2013	2014
United Kingdom					
Unmanufactured	43	243	407	131	160
Ground	7 341	7 926	9 203	7 307	7 891
Waste	902	0	0	24	—

## Notes

- (1) This table shows unmanufactured mica and includes sheet, block, splitting's, 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 2014 was confined to only 14 countries, of which China was the world's largest producer, with 42 per cent of the total world output. The second largest was USA (22 per cent), followed by Chile (17 per cent), Peru (six per cent) and Mexico (five per cent).

### Mine production of molybdenum

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Norway	...	...	4	8	2
Turkey	—	3	—	1	* 1

### Exports of molybdenum

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metal (a)	* 2 300	* 2 800	* 2 500	* 2 500	* 3 200
Belgium					
Ores & concentrates	24 396	25 337	19 444	18 384	19 546
Metal	371	128	204	650	880
Oxides	83	366	688	59	116
Bulgaria					
Ores & concentrates	...	...	101	304	265
Metal	122	355	133	139	138
Czech Republic					
Oxides	25	25	20	214	221
Estonia					
Ores & concentrates	40	80	180	848	260
France					
Ores & concentrates	205	352	81	30	157
Metal	47	36	317	262	1 025
Germany					
Ores & concentrates	5 017	3 955	3 738	3 127	2 540
Metal	763	1 248	1 395	1 475	1 473
Italy					
Ores & concentrates	1 523	2 299	3 153	2 503	6 023
Metal	911	443	409	76	728
Oxides	443	286	22	126	139
Netherlands					
Ores & concentrates	17 126	19 765	24 083	29 792	30 292
Metal	249	492	128	141	251
Oxides	6 429	6 434	6 407	7 319	6 956
Romania					
Ores & concentrates	...	...	652	525	—
Spain					
Metal	243	14	69	79	30
Turkey					
Ores & concentrates	160	266	—	1 498	1 522
Metal	42	64	11	22	2
United Kingdom					
Ores & concentrates	305	3	64	—	—
Metal	572	403	375	472	797
Scrap	490	299	280	355	514

#### Notes

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

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

tonnes

## Imports of molybdenum

Country	2010	2011	2012	2013	2014
Austria					
Ores & concentrates	...	...	—	—	8 151
Metal	548	951	440	414	917
Belgium					
Ores & concentrates	46 899	42 498	39 523	45 135	48 791
Metal	142	235	304	720	929
Oxides	694	1 204	1 659	1 542	862
Bulgaria					
Metal	10	193	9	3	2
Czech Republic					
Metal	82	104	57	64	69
Denmark					
Oxides	418	253	345	570	644
Finland					
Ores & concentrates	(a)* 1 724	(a)* 1 679	(a)* 2 013	3 864	5 531
France					
Ores & concentrates	1 209	1 764	1 575	1 653	2 228
Metal	888	1 098	942	998	1 072
Oxides	1 095	1 465	1 365	1 387	1 128
Germany					
Ores & concentrates	9 134	9 500	7 158	6 165	4 354
Metal	3 038	3 761	4 016	3 479	3 760
Oxides	2 890	2 699	2 385	2 423	2 619
Hungary					
Metal	70	60	51	60	59
Italy					
Ores & concentrates	9 108	5 248	4 794	5 394	5 310
Metal	136	219	192	161	506
Oxides	276	199	187	128	114
Lithuania					
Metal	65	37	45	6	18
Netherlands					
Ores & concentrates	35 335	40 562	39 782	30 242	22 784
Metal	274	261	236	154	152
Oxides	594	865	596	617	648
Poland					
Metal	889	1 292	72	72	99
Oxides	162	198	237	195	224
Romania					
Ores & concentrates	1	41	1 516	1	2
Metal	31	9	4	2	1 622
Slovenia					
Ores & concentrates	561	523	473	476	717
Spain					
Ores & concentrates	2 585	3 572	3 041	3 136	4 211
Metal	239	83	78	42	47
Sweden					
Ores & concentrates	5 487	5 893	6 110	5 988	6 218
Metal	644	360	356	160	172
Oxides	414	357	496	880	673
United Kingdom					
Ores & concentrates	12 581	15 844	16 041	14 396	16 629
Metal	1 099	1 415	1 487	1 271	1 649
Oxides	1 638	2 316	1 971	2 101	2 723

## Notes

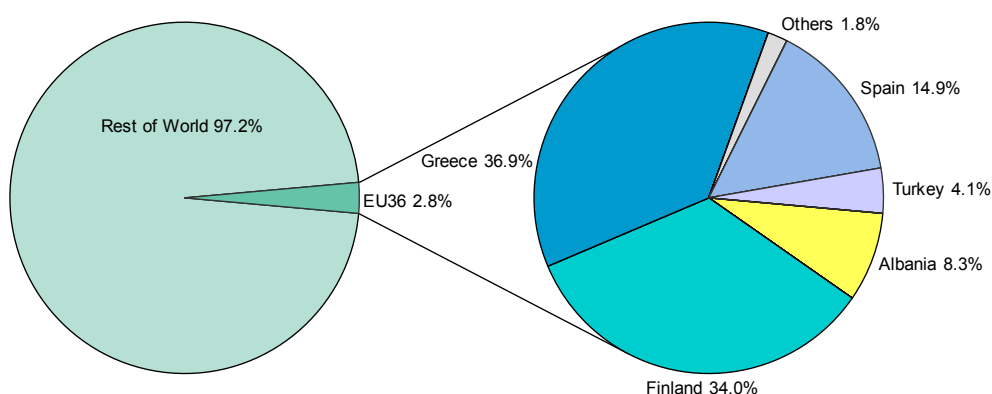
(1) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

## 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 2014, with 18 per cent of the total world output. The second largest was Russia (13 per cent), followed by Australia (12 per cent), Canada (11 per cent) and Indonesia (ten per cent).
- China was the world's largest producer of refined nickel in 2014, with 36 per cent of the total world output. The second largest was Russia (12 per cent), followed by Japan (nine per cent), Australia and Canada (six per cent each).

**EU36 Mine production of nickel 2014**

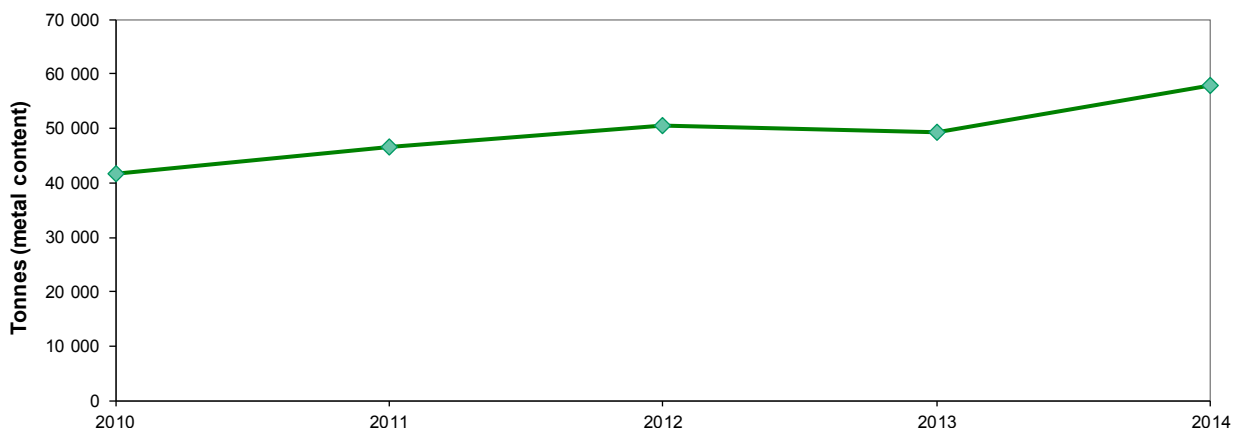


### Mine production of nickel

tonnes (metal content)

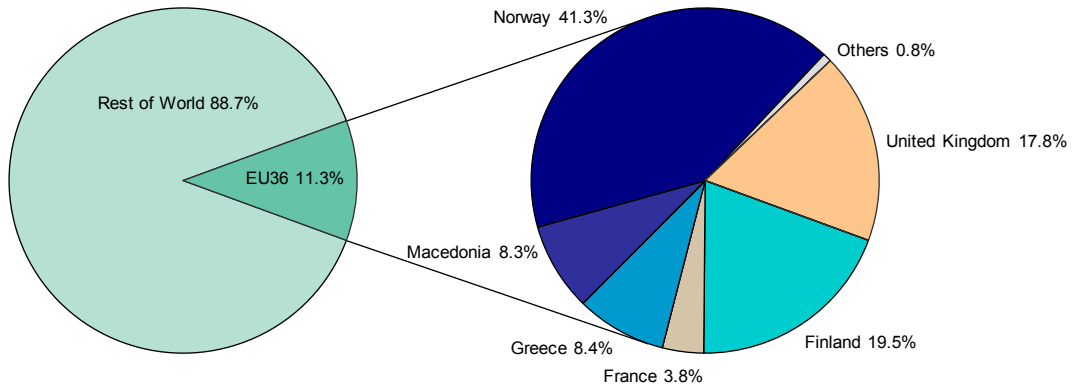
Country	2010	2011	2012	2013	2014
Albania	1 954	914	750	2 151	4 791
Finland	12 100	18 244	19 073	18 560	19 700
Greece	16 100	21 700	21 600	19 100	21 400
Macedonia	* 1 800	* 3 600	* 1 700	—	—
Norway	348	339	351	296	290
Poland	570	850	840	570	780
Spain	6 296	—	2 398	7 574	8 631
Turkey	2 539	848	3 805	1 076	2 400
<b>EU36 total</b>	<b>41 700</b>	<b>46 500</b>	<b>50 500</b>	<b>49 300</b>	<b>58 000</b>

**EU36 Mine production of nickel 2010 - 14**





**EU36 Smelter/refinery production of nickel 2014**



**Smelter/refinery production of nickel**

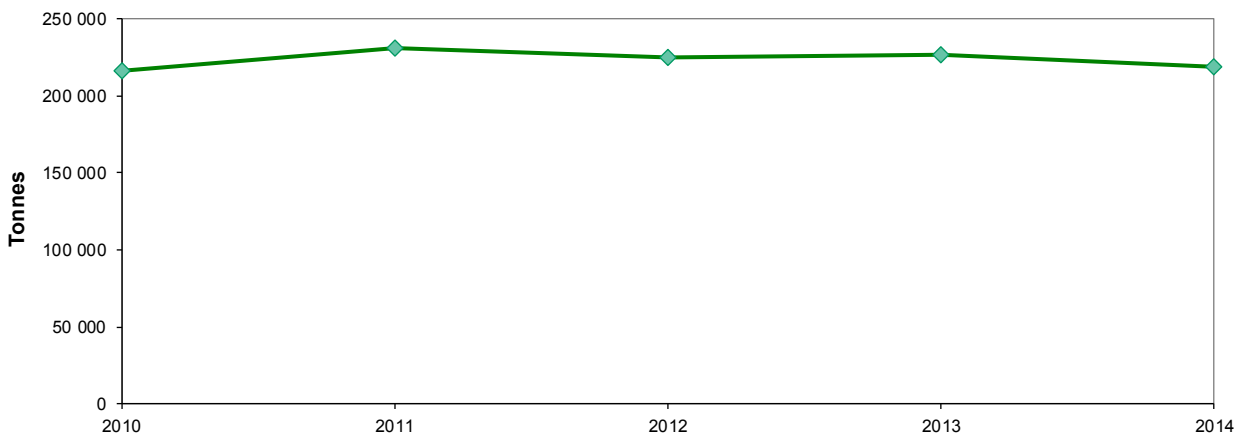
tonnes

Country	2010	2011	2012	2013	2014
Austria	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Finland	49 772	49 823	46 275	44 498	42 750
France	12 900	13 700	13 200	12 100	8 400
Greece	13 960	18 530	18 630	16 800	18 481
Macedonia	14 400	17 300	19 200	20 000	18 100
Norway	92 185	92 427	91 687	91 017	90 526
Poland	600	900	800	600	800
United Kingdom	31 600	37 400	34 300	40 400	39 100
<b>EU36 total</b>	<b>216 400</b>	<b>231 100</b>	<b>225 100</b>	<b>226 400</b>	<b>219 200</b>

Notes

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

**EU36 Smelter/refinery production of nickel 2010 - 14**



## Exports of nickel

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Ores & concentrates	...	...	103	191 605	239 379
Scrap	1	7	477	7	...
Austria					
Unwrought (a)	208	234	351	305	626
Scrap	1 606	2 709	2 633	3 322	5 402
Belgium					
Mattes, sinters etc	697	2 380	3 328	2 379	1 053
Unwrought	9 271	9 684	11 517	12 067	11 189
Unwrought alloys	1 357	1 838	3 838	14 106	12 268
Oxides	221	910	498	1 080	282
Scrap	3 443	7 430	2 407	2 953	11 773
Bulgaria					
Scrap	1 220	2	...	9	10
Czech Republic					
Unwrought (a)	126	272	725	1 668	1 151
Oxides	341	338	380	289	259
Scrap	4 558	3 427	6 851	6 560	3 125
Denmark					
Scrap	1 765	1 244	590	314	278
Estonia					
Unwrought	(a) 2	2	539	(a) 2	(a) 24
Scrap	0	536	144	20	—
Finland					
Ores & concentrates	8 946	23 411	55 260	139 017	103 378
Mattes, sinters etc	...	7 732	13 387	9 473	0
Unwrought	(a) 31 275	(a) 39 472	36 364	36 113	(a) 34 617
Oxides (b)	* 500	* 200	* 200	* 150	* 140
Scrap	323	33	39	130	416
France					
Mattes, sinters etc	315	1 306	1 384	1 240	1 177
Unwrought	9 376	10 997	11 477	9 535	6 462
Unwrought alloys	1 307	1 875	1 818	2 517	3 707
Scrap	30 601	11 685	12 683	9 164	10 253
Germany					
Ores & concentrates	2 673	299	778	74	2 222
Mattes, sinters etc	13 981	15 998	19 412	18 951	22 490
Unwrought	3 751	4 184	4 808	4 922	5 921
Unwrought alloys	1 866	4 423	5 036	5 336	8 353
Scrap	9 563	8 600	7 727	6 516	9 923
Greece					
Ores & concentrates	20 284	120	86	37	25
Ireland, Republic of					
Scrap	557	269	208	188	162
Italy					
Unwrought (a)	2 408	2 097	2 182	2 766	2 898
Scrap	3 537	627	1 260	710	926
Latvia					
Scrap	3 108	2 284	150	291	304
Macedonia					
Ores & concentrates	60 181	25 579	16 219	3 575	4
Netherlands					
Ores & concentrates	40	(b)* 11	3 787	(b)* 1 145	309
Mattes, sinters etc (b)	* 1 800	* 2 400	* 1 400	* 980	* 490
Unwrought (a)	165	49 681	46 929	45 573	51 310
Oxides	...	1 456	1 398	1 433	1 205
Scrap	1 956	1 793	1 405	2 948	3 252
Norway					
Ores & concentrates	4 818	7 598	7 969	5 433	5 397
Unwrought	91 813	92 705	91 591	89 413	86 210
Scrap	1 042	582	499	674	404
Poland					
Mattes, sinters etc	1 134	—	—	28	2
Unwrought	(a) 1 876	(a) 252	(a) 917	2 617	(a) 3 303
Scrap	416	749	709	319	369

## Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Romania					
Scrap	816	561	66	131	65
Slovakia					
Unwrought	68	84	—	1 095	2 147
Scrap	295	1 368	217	149	158
Slovenia					
Unwrought (a)	1 544	520	692	527	1 075
Spain					
Ores & concentrates	106 913	26 597	20 739	100 228	133 552
Unwrought (a)	738	400	570	390	1 377
Oxides	11	1	104	125	232
Scrap	366	376	454	339	1 284
Sweden					
Unwrought (a)	497	599	1 690	385	1 021
Oxides	534	516	429	406	401
Scrap	1 022	1 137	13 853	1 265	1 396
Switzerland					
Unwrought (a)	173	130	62	63	103
Scrap	1 090	909	1 214	1 069	1 649
Turkey					
Ores & concentrates	172 682	378 350	302 100	104 212	163 916
Unwrought	(a) 292	(a) 96	(a) 204	(a) 223	373
Scrap	519	841	783	992	1 273
United Kingdom					
Unwrought	18 639	28 994	30 322	31 742	27 358
Unwrought alloys	4 530	6 025	6 711	7 324	7 629
Scrap	19 361	17 405	33 614	20 994	15 772

## Notes

(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	2010	2011	2012	2013	2014
Austria					
Unwrought (a)	6 894	9 231	8 830	8 004	9 062
Oxides	15	8	247	63	7
Scrap	440	527	1 917	4 359	4 375
Belgium					
Mattes, sinters etc	330	598	1 541	3 770	968
Unwrought	15 052	19 170	19 032	19 343	20 768
Unwrought alloys	469	574	3 035	11 930	10 110
Oxides	700	1 033	576	1 322	284
Scrap	918	1 553	1 907	2 109	787
Bulgaria					
Unwrought (a)	125	201	172	160	167
Czech Republic					
Unwrought (a)	2 560	3 748	3 761	2 368	5 757
Oxides	393	399	307	298	307
Scrap	1 257	178	1 311	1 016	470
Denmark					
Scrap	382	234	227	303	182
Finland					
Mattes, sinters etc	33 986	35 284	30 443	29 502	19 562
Ores & concentrates	217 164	276 892	276 587	240 116	307 179
Unwrought	14 558	9 946	—	7 878	1 233
Unwrought alloys	17 649	2 688	—	490	4 729

## Nickel

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
France					
Mattes, sinters etc	19 921	19 954	19 395	19 053	12 042
Unwrought	13 964	21 693	24 002	16 608	20 214
Unwrought alloys	5 029	7 345	5 466	4 943	5 979
Oxides	524	412	114	66	56
Scrap	2 164	2 988	2 713	3 063	3 036
Germany					
Mattes, sinters etc	849	2 048	1 869	766	545
Ores & concentrates	1 667	1 184	8 185	1 637	3 042
Unwrought	69 282	68 023	73 360	66 360	60 726
Unwrought alloys	8 023	11 778	23 191	7 844	11 039
Oxides	621	476	608	532	510
Scrap	8 584	11 924	14 191	10 135	11 858
Hungary					
Unwrought	(a) 346	(a) 35	(a) 47	(a) 159	302
Ireland, Republic of					
Unwrought (a)	1 503	1 748	568	409	181
Italy					
Mattes, sinters etc	1	4	78	1 281	903
Unwrought	39 586	38 075	33 635	28 985	30 904
Unwrought alloys	1 171	1 314	2 626	9 793	6 651
Scrap	1 063	656	899	1 330	1 554
Latvia					
Unwrought	...	0	584	1	30
Macedonia					
Ores & concentrates	1 210 300	1 393 490	1 518 156	1 259 734	1 391 103
Netherlands					
Ores & concentrates	5 940	9 544	744	0	—
Unwrought	...	50 510	32 005	41 856	45 272
Unwrought alloys	638	3 548	982	1 126	1 386
Oxides (b)	* 50	* 70	* 150	* 253	* 96
Scrap	10 852	4 607	2 584	2 803	4 208
Norway					
Mattes, sinters etc	170 365	199 173	190 275	178 840	162 202
Unwrought (a)	235	246	250	175	131
Poland					
Mattes, sinters etc	1 223	7	—	10	—
Unwrought (a)	3 350	2 722	3 189	3 208	2 518
Oxides	38	28	263	29	35
Scrap	341	603	325	447	447
Portugal					
Unwrought	312	221	285	405	327
Romania					
Unwrought (a)	456	224	190	216	193
Slovakia					
Unwrought (a)	112	617	103	2 659	1 855
Scrap	52	312	35	1	35
Slovenia					
Unwrought (a)	2 967	3 230	4 304	4 469	4 190
Spain					
Ores & concentrates	5	1	—	6 888	11 492
Unwrought	16 540	17 495	20 230	18 352	22 034
Unwrought alloys	2 033	2 593	2 049	1 510	1 203
Oxides	329	323	131	43	28
Scrap	151	806	554	386	728
Sweden					
Mattes, sinters etc	1 239	1 723	1 008	777	179
Unwrought	23 375	23 191	17 878	17 406	18 291
Unwrought alloys	397	216	542	1 226	839
Scrap	10 491	10 332	8 801	8 898	9 881
Switzerland					
Unwrought (a)	1 370	1 199	1 320	1 224	1 214
Turkey					
Unwrought (a)	3 391	4 047	4 012	4 233	4 332
Oxides	144	108	104	170	189

Imports continued

tonnes

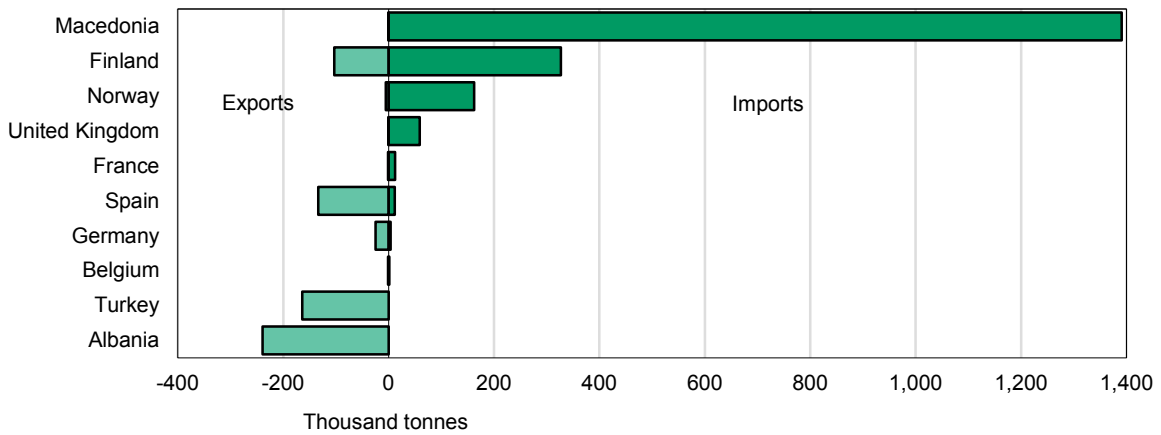
Country	2010	2011	2012	2013	2014
United Kingdom					
Mattes, sinters etc	50 263	58 519	57 108	63 129	59 194
Unwrought	14 200	12 707	11 521	8 130	9 031
Unwrought alloys	3 310	4 644	4 771	4 309	3 771
Scrap	8 154	6 741	9 237	9 887	11 000

Notes

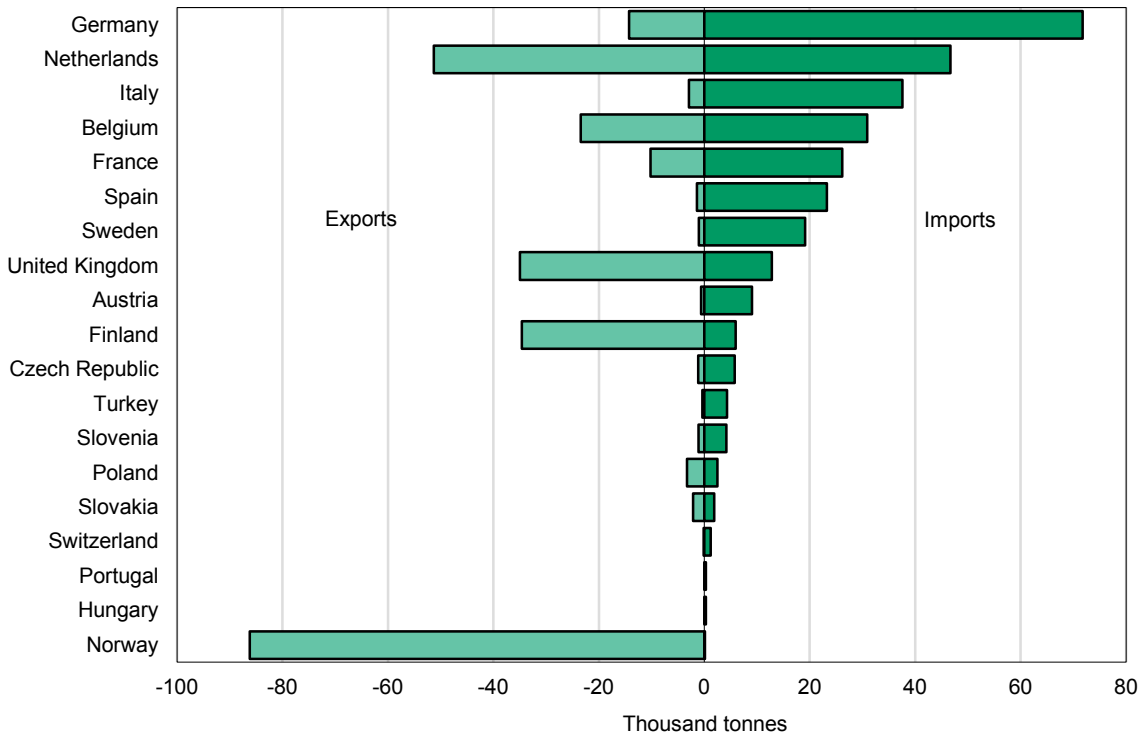
- (1) In this table the term 'unwrought' nickel corresponds to item 7502 of the Harmonised System which excludes all electro-plating anodes
- (2) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

**Nickel ore, mattes and sinters - EU36 trade in 2014**



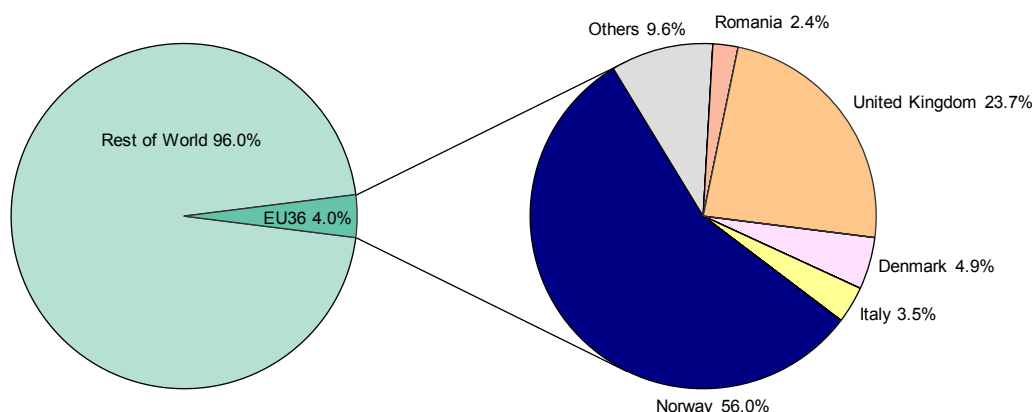
**Nickel metal - EU36 trade in 2014**



## 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 2014, with 13 per cent of the total world output, closely followed by the USA and Russia (also with 13 per cent each). These three countries were followed by the China (five per cent), Canada and the United Arab Emirates (four per cent each).

**EU36 Production of crude petroleum 2014**



## Production of crude petroleum

tonnes

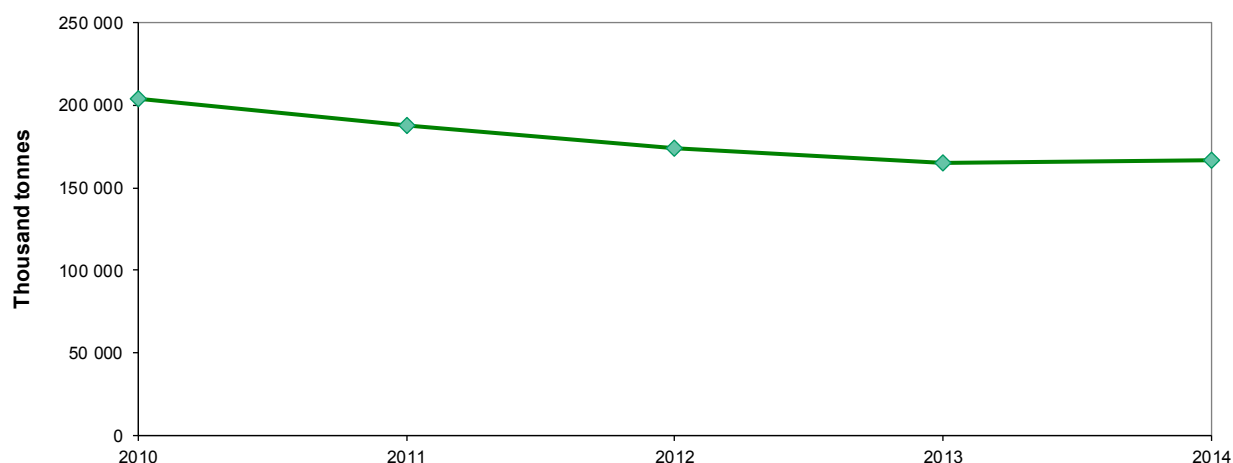
Country	2010	2011	2012	2013	2014
Albania	742 012	894 530	1 029 319	1 203 638	1 342 451
Austria	875 969	838 052	837 561	847 952	883 016
Bulgaria	22 400	21 400	23 600	27 400	* 26 100
Croatia	748 791	664 440	620 835	620 795	558 327
Czech Republic	173 000	163 000	150 000	152 000	147 000
Denmark	12 090 000	10 909 000	9 968 000	8 657 000	8 159 150
Estonia (a)	2 080 000	2 173 132	2 180 313	2 379 253	2 359 463
France	896 000	895 000	806 500	793 000	* 800 000
Germany	2 511 174	2 677 136	2 633 000	2 638 379	2 429 789
Greece	86 000	87 126	83 143	62 233	59 743
Hungary	735 900	657 000	700 931	626 890	* 600 000
Italy	5 080 498	5 286 042	5 376 629	5 480 000	5 750 000
Lithuania	114 464	113 895	101 644	86 054	80 862
Netherlands	1 414 000	1 464 000	1 467 000	1 519 000	1 900 000
Norway	105 146 000	100 343 000	94 497 000	90 387 000	93 294 000
Poland	686 487	618 163	677 664	960 672	984 216
Romania	4 172 411	4 081 979	3 992 011	3 994 122	3 922 784
Serbia	865 499	1 020 490	1 124 794	1 163 988	1 112 303
Slovakia	16 000	18 000	14 000	13 000	13 000
Slovenia	233	263	279	298	366
Spain	121 528	99 925	143 526	367 569	305 263
Turkey	2 602 114	* 2 600 000	2 957 000	2 508 894	2 373 000
United Kingdom	62 962 000	51 972 000	44 560 000	40 646 000	39 550 000
<b>EU36 total</b>	<b>204 100 000</b>	<b>187 600 000</b>	<b>173 900 000</b>	<b>165 100 000</b>	<b>166 700 000</b>

### Notes

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

(a) From oil shale

## EU36 Production of crude petroleum 2010 - 14



## Exports of crude petroleum

tonnes

Country	2010	2011	2012	2013	2014
Albania	537 315	696 762	1 000 850	1 251 513	(a)* 863 000
Belgium	2 593 653	2 278 613	2 085 993	2 149 195	2 472 878
Czech Republic	18 239	18 685	21 470	24 673	26 518
Denmark	7 363 518	6 899 354	5 896 071	6 000 228	4 157 006
Estonia	—	1 062	3 124	12 056	11 532
France	161 761	467 914	427 246	67 524	4 352
Germany	180 515	283 784	138 712	108 761	31 014
Greece	—	—	—	235 324	58 598
Hungary	...	...	1 353	65 964	15 294
Ireland, Republic of	96	46 629	62	—	—
Italy	423 777	713 237	920 740	573 665	617 854
Latvia	524	42 208	45 767	5 690	105 267
Lithuania	110 597	80 025	78 183	66 924	62 678
Netherlands	340 357	81 621	396 475	8 886 727	9 007 981
Norway	79 030 886	70 031 846	64 341 641	59 375 084	62 177 588
Poland	3	186 730	211 223	402 670	420 124
Romania	78 256	76 061	48 688	60 128	51 070
Slovakia	13 048	15 359	11 515	10 042	9 398
Spain	2	7 592	14	11	1 416 095
Sweden	2	3 105	22 040	2 797	699
Turkey (a)	* 1 139 000	* 702 000	* 99 000	* 2 371 000	* 2 057 000
United Kingdom	41 591 305	34 304 184	33 679 090	35 581 067	37 109 307

## Notes

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

## Imports of crude petroleum

tonnes

Country	2010	2011	2012	2013	2014
Albania	21 972	28 163	276	...	...
Austria	6 770 069	7 358 582	7 463 478	7 831 498	7 663 094
Belgium	35 234 358	34 059 177	35 087 312	32 729 841	37 638 864
Bulgaria	5 355 541	4 999 511	5 901 767	5 726 184	5 073 523
Croatia	3 517 452	2 838 313	2 324 685	2 461 651	1 851 207
Czech Republic	7 770 418	6 968 871	7 024 223	6 630 606	7 313 020
Denmark	2 562 669	2 625 412	3 150 386	4 274 735	3 344 297
Finland	11 211 580	11 504 505	11 088 493	11 639 775	11 608 880
France	59 946 970	62 875 826	56 890 280	55 608 981	51 305 516
Germany	91 239 711	87 338 296	92 277 990	91 465 347	87 502 814
Greece	19 064 118	13 010 825	20 102 882	20 292 638	20 907 404

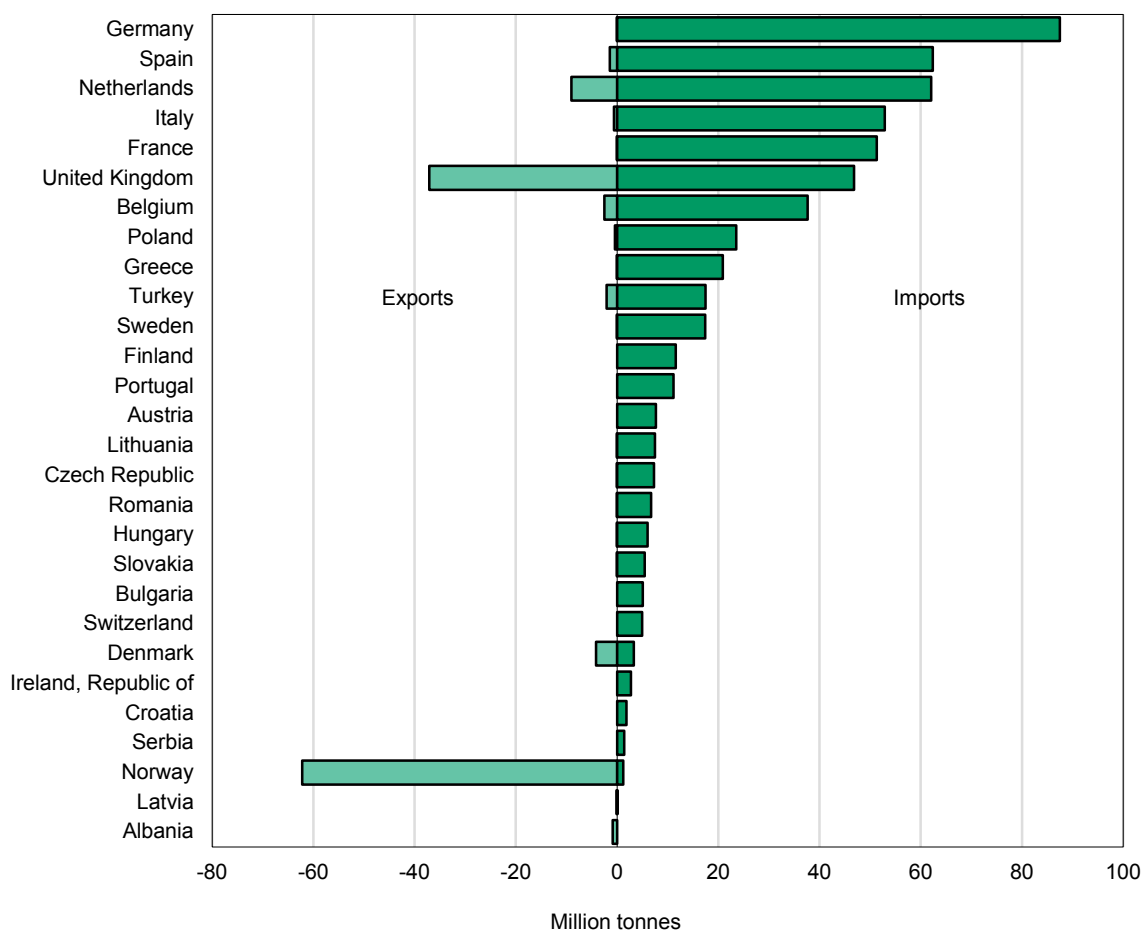
Petroleum and natural gas

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Hungary	5 310 899	5 935 772	5 489 453	5 741 800	6 057 010
Ireland, Republic of	2 931 391	2 720 968	2 843 575	2 989 606	2 776 466
Italy	76 729 305	72 173 373	68 812 837	57 467 112	52 923 689
Latvia	376	1 453	99	2 575	67 892
Lithuania	9 018 334	8 943 996	8 523 368	9 077 111	7 478 509
Macedonia	852 361	685 090	258 896	51 521	—
Netherlands	60 408 191	55 108 848	63 505 928	63 201 586	62 072 337
Norway	1 508 241	1 238 531	1 305 413	1 815 872	1 220 705
Poland	22 009 801	22 870 416	24 629 744	23 141 408	23 577 998
Portugal	11 251 958	10 152 747	11 456 025	11 600 330	11 149 051
Romania	5 821 640	5 451 662	5 127 631	5 299 043	6 727 423
Serbia	1 869 881	1 497 415	1 091 762	1 596 462	1 434 923
Slovakia	5 555 541	5 988 119	5 345 149	5 821 927	5 479 990
Spain	52 714 224	51 960 524	58 285 251	58 583 900	62 353 860
Sweden	18 236 284	17 988 419	20 429 251	15 900 863	17 390 820
Switzerland	4 534 930	4 302 674	3 231 713	4 891 059	4 963 792
Turkey	16 873 392	18 049 163	19 479 238	20 091 078	17 481 481
United Kingdom	50 447 008	53 647 056	56 471 508	48 380 730	46 831 399

Crude petroleum - EU36 trade in 2014

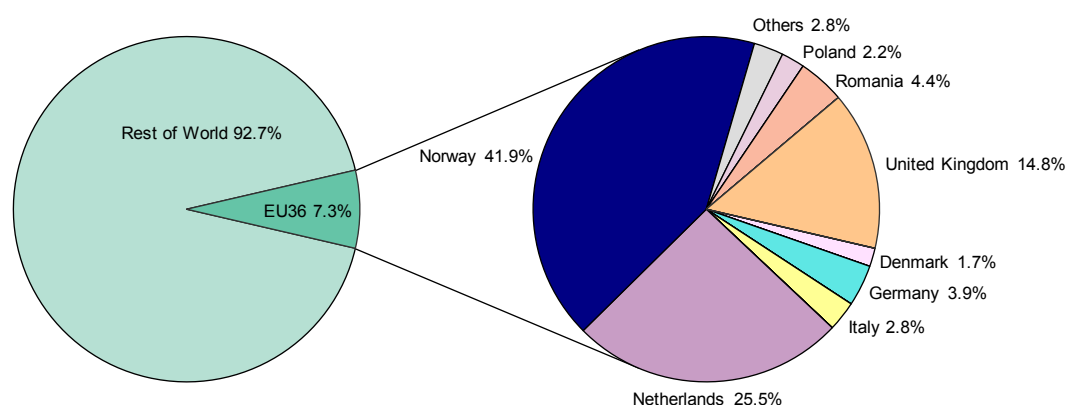




## Natural gas

- 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 2014, with 20 per cent of the total world output. The second largest was Russia (with 18 per cent), followed by Qatar and Iran (five per cent each), Canada and China (with four per cent).

**EU36 Production of natural gas 2014**



## Production of natural gas

million m<sup>3</sup>

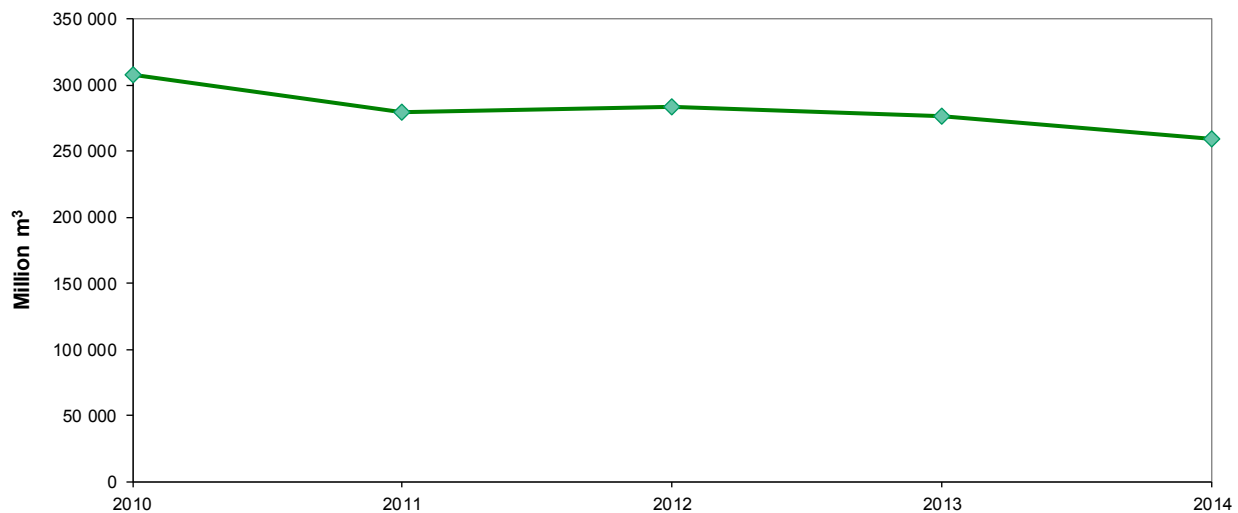
Country	2010	2011	2012	2013	2014
Albania	2	1	18	19	33
Austria	1 713	1 591	1 729	1 359	1 245
Bulgaria	74	443	390	282	181
Croatia	2 727	2 471	2 013	1 862	1 804
Czech Republic	201	187	204	207	198
Denmark	7 792	6 262	5 480	4 566	4 502
France	736	623	538	340	28
Germany	13 666	12 952	11 706	10 678	10 060
Greece	7	6	6	5	* 5
Hungary	2 600	2 315	2 205	2 028	2 055
Ireland, Republic of (a)	402	357	381	343	354
Italy	7 900	8 300	8 540	7 710	7 280
Netherlands	83 944	76 429	76 020	81 479	66 324
Norway	107 800	101 697	114 918	108 746	108 820
Poland	5 666	5 825	5 783	5 790	5 660
Romania	11 138	11 164	11 095	11 135	11 345
Serbia	423	616	672	660	631
Slovakia	106	106	93	91	87
Slovenia	7	2	2	3	3
Spain	58	58	65	62	20
Turkey	626	536	547	562	* 550
United Kingdom	59 707	47 733	41 054	38 475	38 517
<b>EU36 total</b>	<b>307 000</b>	<b>280 000</b>	<b>283 000</b>	<b>276 000</b>	<b>260 000</b>

### Notes

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

(a) Sales

### EU36 Production of natural gas 2010 - 14



### Exports of Natural Gas

tonnes

Country	2010	2011	2012	2013	2014
Austria	2 645 056	2 945 349	1 995 157	992 867	942 452
Belgium	12 091 105	24 078 554	14 990 395	21 292 092	11 318 364
Bulgaria	(a)* 13	(a)* 5	(a)* 539	(a)* 864	1 416
Croatia	347 567	180 323	174 291	260 560	247 564
Czech Republic	1 318 872	1 115 748	1 034 568	965 421	1 578 834
Denmark (a)	* 1 044 000	* 836 000	* 729 000	* 1 527 000	* 905 000
Finland	9 052	4 729	34	34	—
France	2 908 272	8 017 462	* 5 800 000	4 729 143	4 697 219
Germany	11 720 448	19 128 385	24 489 252	28 752 629	32 479 383
Greece	...	2 871	6 027	2 807	—
Hungary	—	—	417 151	829 105	756 154
Italy	1 427 161	159 619	143 244	190 849	155 899
Norway	75 626 277	74 356 856	84 557 156	81 107 905	82 413 956
Portugal	389 309	875	58 753	243 548	49 632
Slovakia	1 153 269	1 439 467	1 366 942	1 052 157	1 518 006
Slovenia	—	—	—	71 993	258 652
Spain	200 027	555 012	1 325 072	2 483 109	3 779 768
Sweden	21	6 159	475	13 416	25 221
Turkey	590 182	(a)* 653 000	(a)* 589 000	(a)* 498 000	(a)* 450 000
United Kingdom (b)	14 461 473	15 239 637	11 325 170	8 562 644	9 969 015

Notes

- (1) This table includes both liquefied natural gas (HS code: 271111) in tonnes and natural gas in gaseous state (HS code 271121) in tonnes of oil equivalent
- (2) To convert figures from million tonnes (of oil equivalent) to billion m<sup>3</sup>, 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	2010	2011	2012	2013	2014
Austria	8 697 934	9 390 448	10 043 171	7 317 311	7 096 338
Belgium	14 144 704	13 250 074	12 979 827	12 670 698	13 060 915
Bulgaria	2 003 357	2 551 044	1 925 287	1 688 459	1 643 658
Croatia	587 846	579 005	971 008	1 032 104	768 131
Czech Republic	7 471 522	7 175 884	5 652 749	6 622 377	5 413 601
Denmark	103 236	198 423	315 464	419 357	197 175
Estonia	491 806	478 288	452 299	535 232	382 921
Finland	3 252 037	3 543 126	(a)* 3 000 000	2 152 696	(a)* 1 373
France	41 624 014	50 897 525	(a)* 37 000 000	35 767 086	29 549 860
Germany	82 784 241	87 762 701	92 961 372	98 149 729	101 080 184
Greece	3 520 510	4 233 660	3 927 266	2 835 500	2 127 817
Hungary	5 858 735	5 788 348	5 509 482	6 064 192	7 844 861
Ireland, Republic of	4 738 918	4 430 360	4 282 222	4 372 123	4 111 051
Italy	59 616 091	50 506 295	48 666 707	43 720 221	39 108 795
Latvia	1 160 668	1 099 045	1 034 139	1 081 866	924 514
Lithuania	2 048 906	2 385 268	2 265 929	1 954 603	1 760 365
Luxembourg	3 591	3 077	1 441	—	1 188
Macedonia	79 059	93 816	96 877	93 567	103 041
Netherlands (a)	* 11 044 000	* 12 153 000	* 10 107 568	* 2 884 000	* 3 026 000
Norway	4 393	1 005	444	36	23
Portugal	3 849 819	3 543 064	3 231 198	3 456 751	3 109 506
Romania	* 2 000 000	3 283 138	(a)* 200 000	(a)* 260 000	417 705
Serbia	1 346 955	1 362 390	1 289 674	1 201 886	1 028 997
Slovakia	5 765 254	5 747 975	5 577 333	5 378 551	4 475 375
Slovenia	828 674	736 641	662 178	719 982	802 609
Spain	27 795 263	27 529 122	26 622 307	26 177 038	25 681 312
Sweden	1 066 174	899 467	816 561	804 417	745 739
Switzerland	2 759 930	2 521 494	2 644 533	2 857 193	2 536 886
United Kingdom (b)	50 244 561	50 045 076	46 191 572	45 144 017	39 999 792

## Notes

- (1) This table includes both liquefied natural gas (HS code: 271111) in tonnes and natural gas in gaseous state (HS code 271121) in tonnes of oil equivalent
- (2) To convert figures from million tonnes (of oil equivalent) to billion m<sup>3</sup>, 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 2014, with 49 per cent of the total world output. The second largest was Morocco (13 per cent), followed by USA (11 per cent), Peru and Russia (four per cent each).

### Production of phosphate rock

tonnes

Country	2010	2011	2012	2013	2014
Finland	817 289	869 694	858 005	877 189	946 234

### Exports of phosphate rock

tonnes

Country	2010	2011	2012	2013	2014
Belgium	30 744	62 021	63 004	66 964	46 172
Finland	52 006	117 304	43 597	—	57 295
France (a)	* 18 000	* 19 000	* 31 000	* 33 000	* 19 000
Germany	489	1 641	1 742	791	705
Italy	10 751	16 139	8 370	8 614	7 696
Lithuania	—	—	20 000	—	—
Macedonia	1 056	651	709	529	553
Netherlands	138 239	166 704	162 952	117 248	128 632
Norway	2	5	6 866	17 506	29 217
Poland	43	434	226	1 284	909
Romania	20	—	22	—	2 004
Slovenia	153 182	164 440	172 405	153 665	174 264
Spain	1 888	10 985	620	269	952
Sweden	125	2 253	1 826	1 558	2 536
Turkey	620	1 454	937	105 453	1 338

## Notes

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

### Imports of phosphate rock

tonnes

Country	2010	2011	2012	2013	2014
Austria	(a)* 160 000	61 030	(a)* 6 500	(a)* 106	(a)* 200
Belgium	1 114 210	1 076 842	1 038 397	946 026	876 395
Bulgaria	455 539	570 288	535 571	410 404	577 889
Croatia	51 010	67 007	56 303	48 227	37 285
Czech Republic	9 917	13 163	21	35	37
Finland	28 144	10 181	(a)* 52	41 664	(a)* 168
France	305 259	264 541	312 023	229 553	260 572
Germany	120 580	117 971	133 355	85 115	115 409
Greece	252 644	220 591	140 205	156 936	182 902
Hungary	1 305	1 028	312	215	24
Ireland, Republic of	5 328	264	327	55	3 476
Italy	231 808	243 718	196 478	140 749	107 048
Lithuania	1 354 093	1 254 579	1 216 427	1 283 243	1 251 250
Netherlands	779 354	779 537	679 557	287 737	301 386
Norway	9 638	6 499	—	—	—
Poland	1 299 106	1 434 124	1 237 885	957 111	1 265 788
Portugal	93 348	91 703	105 186	73 503	105 798
Romania	233 377	254 061	229 060	63 150	88 353
Serbia	20 394	60 024	85 674	97 293	152 508
Slovakia	1 688	1 662	1 299	(a)* 1 000	142

Imports continued

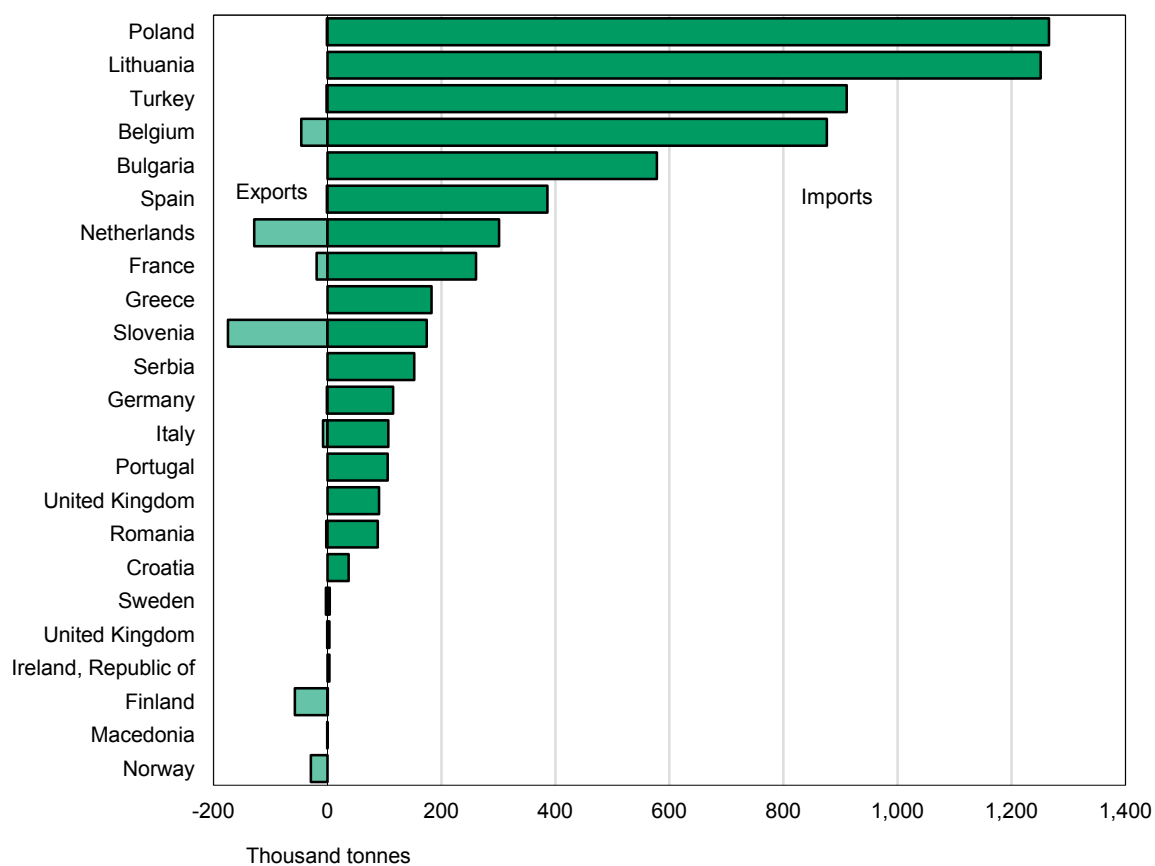
tonnes

Country	2010	2011	2012	2013	2014
Slovenia	153 160	164 442	172 406	153 649	174 270
Spain	1 017 820	377 348	345 571	312 525	385 790
Sweden	3 869	12 968	10 687	4 831	4 244
Switzerland	3 657	20 007	15 024	13 770	297
Turkey	686 966	814 382	711 627	745 424	911 012
United Kingdom	9 873	15 885	15 314	3 186	3 515

Notes

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

## Phosphate rock - EU36 trade in 2014



## 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 2014, with 64 per cent of the total world output. The second largest was Russia (15 per cent), followed by Zimbabwe (nine per cent), Canada (seven per cent), and the USA (two per cent).
- Russia was the world's largest producer of palladium in 2014, with 44 per cent of the total world output. The second largest was South Africa (32 per cent), followed by Canada (ten per cent), USA (seven per cent) and Zimbabwe (six per cent).
- South Africa was also the largest producer of other platinum group metals in 2014, with 84 per cent of the world output. Other producers were Russia and Zimbabwe (seven per cent each), and Canada (three per cent).

### Mine production of platinum group metals

kilograms (metal content)

Country	2010	2011	2012	2013	2014
Finland					
Platinum	—	—	429	946	1 060
Palladium	—	—	379	766	808
Poland					
Platinum	30	23	39	51	* 60
Palladium	20	13	23	30	* 30
Serbia					
Platinum	—	6	3	3	* 3
Palladium	22	4	22	20	* 20
EU36 total	70	50	900	1 820	1 980

#### Notes

- (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	2010	2011	2012	2013	2014
Austria					
Platinum & platinum metals	£83 434 000	£110 119 000	£105 895 000	£101 611 000	£72 848 000
Waste & scrap	£1 070 000	£757 000	£733 000	£697 000	£389 000
Belgium					
Platinum & platinum metals	7 500	8 900	5 300	5 400	2 100
Waste & scrap	497 000	218 400	31 200	9 300	31 900
Bulgaria					
Platinum & platinum metals	1	15	22	8	519
Waste & scrap (a)	* 16 000	* 23 000	* 21 000	* 37 000	* 28 000
Croatia					
Waste & scrap	53 996	24 958	36 441	35 000	(a)* 32 700
Czech Republic					
Platinum & platinum metals	6 800	2 900	2 800	3 500	130 700
Waste & scrap	—	15 300	—	4 600	—
Denmark					
Platinum & platinum metals	200	100	200	600	300
Estonia					
Platinum & platinum metals	...	—	654	500	—
Waste & scrap	7 700	9 100	8 800	103 800	133 700
Finland					
Platinum & platinum metals	6 238	6 684	3 927	8 475	2 044
Waste & scrap	723	75	454	37 096	51 332
France					
Platinum	1 884	2 566	4 139	4 662	16 425
Platinum metals	914	1 255	2 558	3 281	5 514
Waste & scrap	179 798	270 355	352 702	521 192	275 632

## Exports continued

kilograms

Country	2010	2011	2012	2013	2014
Germany					
Platinum	24 597	24 994	23 627	25 030	25 819
Palladium	35 462	43 952	43 524	44 596	36 703
Other platinum metals	33 299	28 158	21 018	23 890	23 716
Waste & scrap	5 997 852	6 960 588	6 047 948	6 088 890	6 174 615
Greece					
Platinum & platinum metals	345	106	883	37	1 500
Waste & scrap	—	...	6 300	32 500	21 600
Hungary					
Platinum & platinum metals	211	158	—	118	9 418
Waste & scrap	92 300	91 200	149 100	36 600	14 000
Ireland, Republic of					
Platinum & platinum metals	* 213	* 295	* 268	549	984
Waste & scrap	5 440	1 763	3 496	1 775	2 012
Italy					
Platinum	10 408	9 982	10 071	9 791	12 296
Platinum metals	12 684	14 436	16 259	23 339	36 220
Waste & scrap	634	37 750	2 899	6 425	22 415
Lithuania					
Waste & scrap	193 600	126 800	(a)* 153 000	(a)* 183 000	144 564
Luxembourg					
Platinum & platinum metals	243	197	469	477	—
Waste & scrap	5 600	16 000	...	100	—
Netherlands					
Platinum	£14 634 000	£9 386 000	£10 282 000	£6 146 000	£7 996 000
Platinum metals	£7 953 000	£7 261 000	£5 329 000	£6 817 000	£4 605 000
Waste & scrap	1 877	220	5 714	1 445	97 519
Norway					
Platinum & platinum metals	9 714	11 951	13 707	10 088	9 262
Waste & scrap	157 937	36 399	63 560	19 969	3 814
Poland					
Platinum & platinum metals	1 100	2 400	400	900	900
Waste & scrap	300	3 400	63 900	425 200	538 900
Portugal					
Waste & scrap	...	15 100	3 200	1 600	300
Slovakia					
Platinum & platinum metals	5 800	84 100	29 400	1 800	2 100
Waste & scrap	111	764	97	152	30 600
Spain					
Platinum & platinum metals	2 347	1 255	21 889	467 717	322 509
Waste & scrap	291 877	163 420	68 805	106 813	601 265
Sweden					
Platinum & platinum metals	£429 000	£1 203 000	£801 000	£1 550 000	£2 194 000
Waste & scrap	69 000	43 600	39 100	24 900	62 100
Switzerland					
Platinum	72 006	63 853	64 331	53 309	30 715
Palladium	70 662	60 859	56 950	50 029	42 138
Other platinum metals	464	494	836	977	1 252
Waste & scrap	314 061	289 174	241 307	365 333	260 344
Turkey					
Platinum & platinum metals	5 124	2 765	589	4 743	695
Waste & scrap	4 491	5 332	13 244	550	1 236
United Kingdom					
Platinum	24 464	37 836	55 114	42 712	74 068
Palladium	42 864	50 917	55 864	55 322	60 671
Other platinum metals	23 021	17 319	18 945	17 843	20 158
Waste & scrap	527 862	287 198	1 066 729	1 193 612	3 815 056

## Notes

(1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys

(2) Kilograms have been used as the unit except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling. See explanatory notes at the front of this volume regarding currency conversions.

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

**Imports of platinum group metals**

kilograms

Country	2010	2011	2012	2013	2014
Austria					
Platinum & platinum metals	1 400	4 100	500	2 600	1 100
Waste & scrap	100	21 400	1 100	700	5 500
Belgium					
Platinum & platinum metals	5 189	3 763	3 055	10 418	1 217
Cyprus					
Platinum & platinum metals (a)	* 900	* 400	* 11	* 340	* 22
Czech Republic					
Platinum	25 000	2 100	13 100	1 200	1 400
Platinum metals	17 700	100	100	300	500
Waste & scrap	7 835	54 300	169 600	189 400	54 800
Denmark					
Platinum & platinum metals	2 300	1 367	500	1 600	200
Estonia					
Waste & scrap	...	...	—	59 600	114 500
Finland					
Platinum & platinum metals	385	356	57 429	107 271	246
Waste & scrap	...	...	—	—	1 777
France					
Platinum	4 516	4 010	4 606	43 645	6 628
Palladium	2 706	25 607	7 919	10 272	10 355
Other platinum metals	300	270	264	1 308	950
Waste & scrap	143 885	296 178	122 641	411 440	329 640
Germany					
Platinum	40 983	38 019	32 874	33 128	38 066
Palladium	53 479	50 926	47 449	41 511	43 339
Other platinum metals	19 655	21 319	18 444	15 626	15 963
Waste & scrap	8 069 744	7 290 427	8 020 283	7 091 894	7 580 861
Greece					
Platinum & platinum metals	500	1 400	900	400	183
Hungary					
Platinum & platinum metals	1 300	84	—	38	29
Ireland, Republic of					
Platinum & platinum metals	9 470	7 826	13 879	15 171	41 557
Italy					
Platinum	12 545	10 630	7 417	8 436	15 766
Palladium	10 019	9 171	7 855	6 411	11 765
Other platinum metals	1 694	1 084	1 244	782	3 203
Waste & scrap	16 918	1 468	3 103	2 150	12 607
Latvia					
Waste & scrap	(d)* 400	...	...	—	—
Lithuania					
Waste & scrap	76 400	64 600	4 800	59 500	98 000
Luxembourg					
Platinum & platinum metals	1 633	438	329	301	1 798
Macedonia					
Platinum & platinum metals	2 420	7 649	9 910	13 443	21 219
Netherlands					
Platinum	£25 740 000	£73 911 000	£79 002 000	£15 407 000	£10 591 546
Platinum metals	£13 014 000	£54 486 000	£31 440 000	£10 916 000	£9 319 288
Waste & scrap	260 515	411 332	5 883	116 333	6 003
Norway					
Platinum & platinum metals	1 425	1 430	758	955	813
Waste & scrap	1 362	1 160	1 403	1 225	1 290
Poland					
Platinum & platinum metals	5 100	2 700	1 800	300	900
Waste & scrap	19	1	100	33 000	143 200
Portugal					
Platinum & platinum metals	796	245	* 800	* 900	205
Waste & scrap	...	...	—	3 600	28 600
Slovakia					
Platinum	1 625 761	2 662 700	2 339 500	1 544 400	101 800
Palladium	2 702	4 400	4 800	500	3 300
Spain					
Platinum & platinum metals (a)	* 3 500	* 3 000	* 2 500	* 3 000	* 3 000
Waste & scrap	29 183	17 845	13 104	5 866	114 289



## Imports continued

kilograms

Country	2010	2011	2012	2013	2014
Sweden					
Platinum & platinum metals	£7 551 000	£8 430 000	£12 301 000	£8 081 000	£10 548 769
Waste & scrap	1 500	19 800	12 700	1 100	5 200
Switzerland					
Platinum	49 089	57 415	39 955	38 007	25 303
Palladium	41 454	43 310	27 123	28 836	25 681
Other platinum metals	813	873	1 065	1 488	1 252
Waste & scrap	912 680	459 360	413 819	410 984	421 031
United Kingdom					
Platinum	58 659	46 092	54 073	39 973	51 736
Palladium	73 184	42 167	59 803	49 348	34 191
Other platinum metals	9 487	7 768	4 374	6 953	5 339
Waste & scrap	819 769	1 556 736	2 163 943	1 186 431	838 025

## Notes

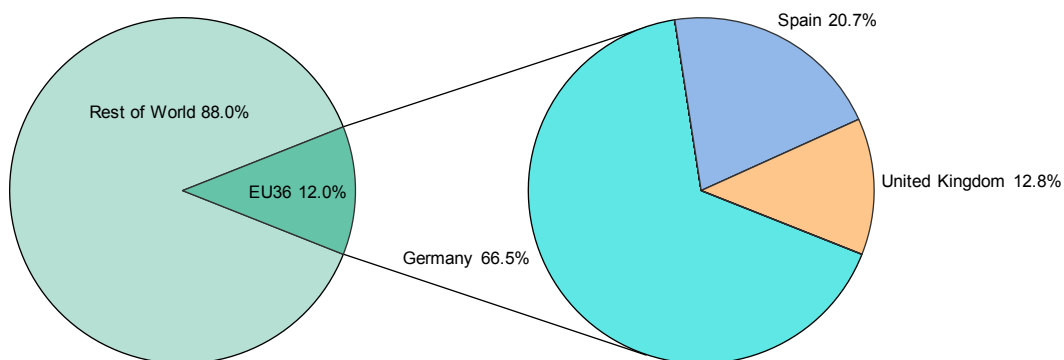
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(a) BGS estimates, based on known exports from certain countries

## Potash

- Potash is the name for a range of potassium-bearing minerals and processed chemical products. Potassium is essential in fertilisers and is widely used in the chemicals industry and in explosives.
- Canada was the world's largest producer in 2014, with 29 per cent of the total world output. The second largest was Russia (19 per cent), followed by Belarus (16 per cent) and China (nine per cent).

**EU36 Production of potash 2014**

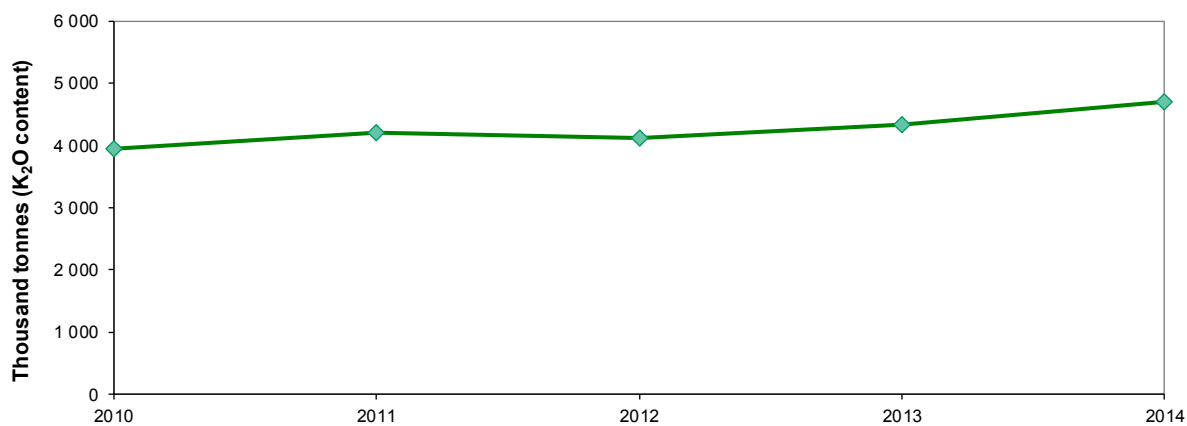


### Production of potash

tonnes (K<sub>2</sub>O content)

Country	2010	2011	2012	2013	2014
Germany					
Potassic salts	3 023 941	3 214 696	3 149 386	3 075 201	3 126 913
Spain					
Chloride	513 222	520 555	421 652	711 272	972 045
United Kingdom					
Chloride	* 403 800	* 462 000	* 540 000	* 540 000	* 600 000
<b>EU36 total</b>	<b>3 941 000</b>	<b>4 197 000</b>	<b>4 111 000</b>	<b>4 326 000</b>	<b>4 699 000</b>

**EU36 Production of potash 2010 - 14**



## Exports of potash

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Potassic fertilisers	20 259	19 304	21 653	25 037	32 771
Belgium					
Chloride	64 018	100 097	217 498	65 796	27 879
Croatia					
Chloride	3	212	217	1 033	77
Czech Republic					
Potassic fertilisers	4 235	4 780	3 839	3 320	4 279
Denmark					
Chloride	69	2 123	2 579	2 628	5 425
Other potassic fertilisers	683	8 898	7 664	5 891	5 202
Estonia					
Potassic fertilisers	48	693	242	131	2
Finland					
Sulphate	53 850	* 61 000	* 75 000	* 72 000	* 77 000
France					
Sulphate	17 085	25 238	17 335	3 224	982
Chloride	36 215	15 947	65 461	66 100	55 048
Other potassic fertilisers	1 788	2 772	3 714	2 660	1 276
Germany					
Potassic fertilisers (a)(b)	3 023 941	3 214 696	3 149 386	3 075 201	3 126 913
Greece					
Potassic fertilisers	1 294	431	336	575	300
Hungary					
Potassic fertilisers	5 697	5 805	7 664	13 513	11 998
Italy					
Potassic fertilisers	13 629	8 702	8 551	9 426	9 698
Latvia					
Chloride	39	28	1 427	137	1 952
Potassic fertilisers	357	535	1 344	1 070	1 092
Lithuania					
Potassic fertilisers	6 517	4 256	7 989	6 381	8 210
Netherlands					
Sulphate	7 854	45 711	27 002	27 259	202 718
Chloride	174 453	227 456	395 684	327 663	280 860
Other potassic fertilisers	15 619	45 766	31 642	33 173	30 626
Poland					
Potassic fertilisers	10 687	10 078	3 999	15 678	27 845
Portugal					
Potassic fertilisers	612	895	3 901	10 878	4 350
Romania					
Chloride	5 218	303	390	99	24
Serbia					
Potassic fertilisers	690	3 672	3 546	2 288	957
Slovakia					
Potassic fertilisers	51	580	183	859	1 184
Spain					
Sulphate	6 474	3 713	4 873	4 150	5 078
Chloride	609 429	688 599	737 088	852 298	859 278
Other potassic fertilisers	2 365	2 385	3 020	1 879	2 251
Sweden					
Sulphate	93 796	84 381	69 205	79 724	99 551
Turkey					
Potassic fertilisers	6 533	6 504	3 654	6 620	5 558
United Kingdom					
Sulphate	71	108	118	428	469
Chloride (c)	* 339 000	* 429 000	* 440 000	* 504 000	* 568 000
Other potassic fertilisers	420	5 283	15 732	29 558	53 838

## Notes

(a) K<sub>2</sub>O content

(b) Including sulphate, chloride and other potassic fertilisers

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

**Imports of potash**

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Other potassic fertilisers	650	88	48	30	...
Austria					
Sulphate	15 074	9 595	15 636	14 738	15 276
Chloride	105 299	102 028	132 302	125 318	146 317
Other potassic fertilisers	18 201	9 418	12 312	16 730	19 225
Belgium					
Sulphate	21 604	6 225	15 461	7 775	27 690
Chloride	744 987	1 511 805	740 726	717 027	660 878
Other potassic fertilisers	13 668	13 771	3 794	5 567	6 126
Bulgaria					
Potassic fertilisers	7 985	3 210	9 948	15 194	8 463
Croatia					
Chloride	132 471	102 879	115 375	75 526	90 036
Other potassic fertilisers	1 749	3 717	1 314	2 233	1 402
Czech Republic					
Chloride	82 710	87 248	75 651	72 531	90 502
Other potassic fertilisers	4 773	3 410	3 377	4 381	3 931
Denmark					
Sulphate	1 910	9 335	11 225	15 644	20 544
Chloride	36 608	42 472	30 823	41 611	63 047
Other potassic fertilisers	14 967	8 473	4 816	3 951	10 403
Estonia					
Chloride	1 517	1 898	2 438	3 120	4 669
Other potassic fertilisers	57	1 491	1 960	372	1 047
Finland					
Chloride (a)	194 800	211 100	207 500	232 400	226 500
Other potassic fertilisers	117	4 602	1 100	9	192
France					
Sulphate	51 068	40 885	75 743	86 471	85 795
Chloride	1 049 344	1 003 299	901 717	826 150	902 959
Other potassic fertilisers	13 998	6 814	13 696	15 213	20 530
Germany					
Sulphate	20 786	22 490	21 559	19 889	22 579
Chloride	131 645	131 244	146 673	172 910	198 212
Other potassic fertilisers	8 065	11 726	7 729	14 129	13 004
Greece					
Sulphate	39 155	26 686	26 621	24 778	19 421
Chloride	35 176	27 276	19 735	19 026	36 912
Other potassic fertilisers	3 240	8 166	2 947	2 276	192
Hungary					
Chloride	90 063	98 351	106 292	127 342	133 156
Other potassic fertilisers	5 760	6 161	5 449	5 141	7 798
Ireland, Republic of					
Chloride	99 181	95 816	85 536	146 361	175 688
Other potassic fertilisers	7 570	2 011	5 249	6 697	3 933
Italy					
Sulphate	88 593	58 418	52 568	59 966	43 124
Chloride	367 465	287 984	285 476	283 353	300 974
Other potassic fertilisers	8 415	1 368	511	416	481
Latvia					
Chloride	6 414	3 468	8 694	9 043	9 881
Lithuania					
Sulphate	2 581	7 069	6 267	4 521	3 127
Chloride	32 552	35 602	52 573	46 394	60 786
Other potassic fertilisers	4	112	1 837	98	162
Luxembourg					
Potassic fertilisers	1 681	1 167	1 252	1 832	1 722
Netherlands					
Sulphate	21 982	56 536	66 497	118 050	246 261
Chloride	430 138	756 966	905 233	851 210	978 368
Other potassic fertilisers	1 542	26 231	24 569	80 844	103 051
Norway					
Sulphate (b)	* 99 000	* 65 000	* 27 782	* 49 000	* 455 000
Chloride (b)	* 377 000	* 354 000	* 395 133	* 371 000	* 389 000
Other potassic fertilisers	612	287	320	235	2 348

Potash

tonnes

Imports continued

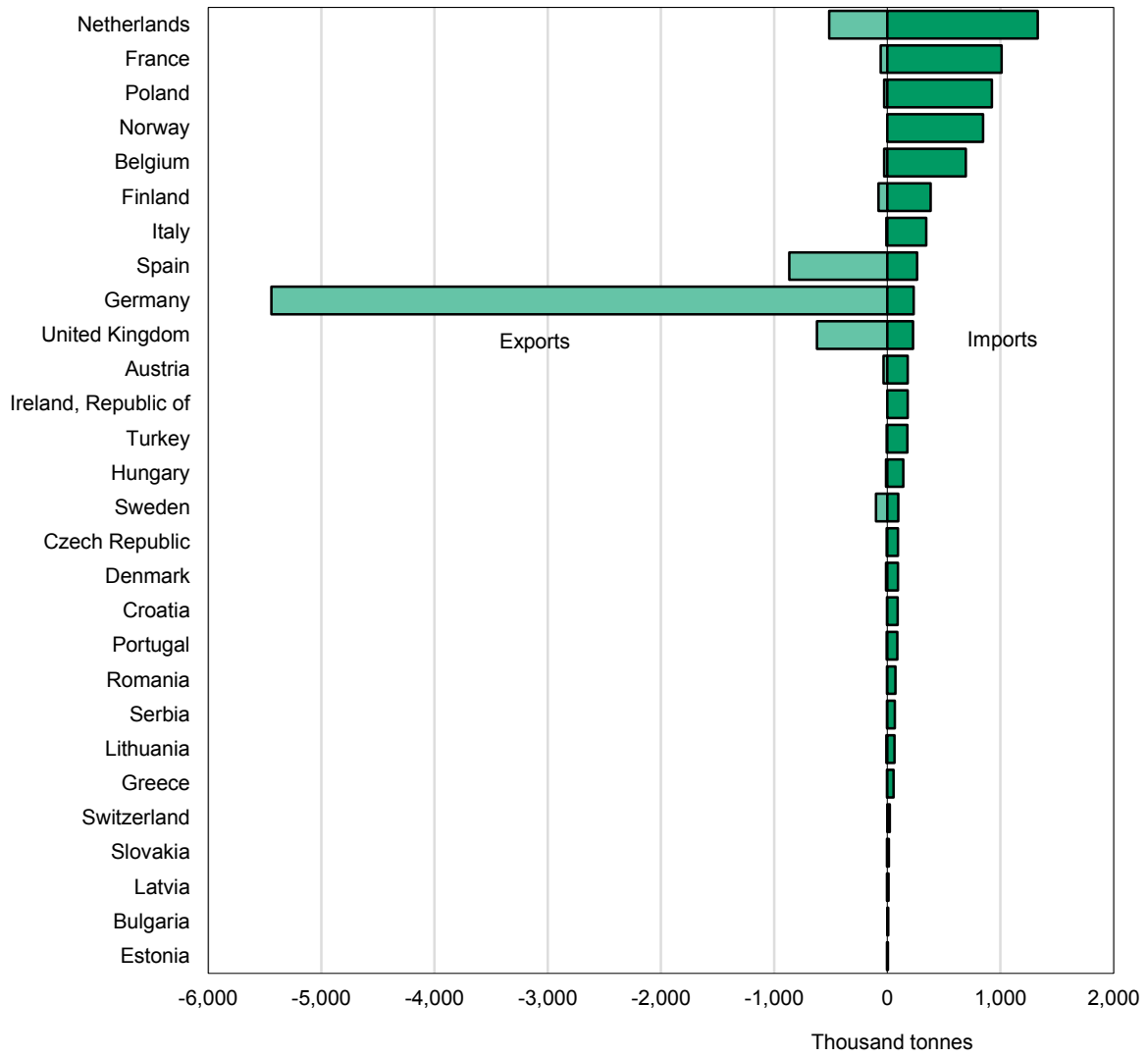
Country	2010	2011	2012	2013	2014
Poland					
Sulphate	19 155	23 281	23 883	28 911	38 846
Chloride	757 987	769 256	779 023	784 534	860 095
Other potassic fertilisers	4 442	10 317	11 544	17 079	25 937
Portugal					
Sulphate	3 840	4 405	10 798	27 020	10 290
Chloride	50 687	65 352	82 364	64 943	73 749
Other potassic fertilisers	1 899	2 596	5 395	8 477	3 952
Romania					
Sulphate	13 726	6 936	17 559	32 233	20 486
Chloride	56 922	46 842	21 354	46 300	49 333
Other potassic fertilisers	425	683	1 279	1 161	1 253
Serbia					
Chloride	71 906	53 113	69 712	57 629	66 813
Slovakia					
Chloride	22 561	24 631	23 613	18 670	12 171
Other potassic fertilisers	2 913	2 260	3 204	1 032	719
Slovenia					
Potassic fertilisers	1 919	2 076	1 447	1 574	1 610
Spain					
Sulphate	40 716	34 477	43 865	46 773	42 717
Chloride	209 552	221 210	232 397	242 393	220 390
Other potassic fertilisers	1 607	1 283	968	426	683
Sweden					
Sulphate	1 789	2 551	1 340	1 855	1 663
Chloride	55 671	79 863	81 282	74 406	92 734
Other potassic fertilisers	5 858	9 276	8 187	5 193	2 719
Switzerland					
Sulphate	4 914	5 899	6 638	5 248	8 023
Chloride	16 865	14 730	11 866	12 201	12 965
Other potassic fertilisers	2 049	1 159	1 136	990	805
Turkey					
Sulphate	34 986	28 989	36 459	22 799	25 613
Chloride	82 923	93 471	94 930	116 098	151 935
Other potassic fertilisers	1 075	109	107	113	127
United Kingdom					
Sulphate	15 766	13 232	10 795	10 905	16 513
Chloride	270 096	153 141	161 388	149 121	201 039
Other potassic fertilisers	10 565	2 373	7 899	8 484	8 875

## Notes

(a) K<sub>2</sub>O content

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

Potash - EU36 trade in 2014



## 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 (90 per cent of the total world output in 2014). The second largest producers in 2014 were USA and Australia (with four per cent each), followed by Russia (two per cent). A minor amount was also produced in Malaysia.

## Exports of rare earths

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metals	258	452	500	532	475
Cerium compounds	1 936	1 167	888	1 102	946
Other rare earth compounds	8 658	4 902	5 696	6 166	7 552
Belgium					
Metals	476	110	134	171	202
Rare earth compounds	332	265	141	180	238
Czech Republic					
Rare earth compounds	6	2	—	2	4
Estonia					
Metals	1	0	42	77	—
Rare earth compounds	1 686	1 124	3 210	3 482	2 802
Finland					
Rare earth compounds	44	67	0	84	86
France					
Metals	8	11	12	14	10
Rare earth compounds	3 411	2 789	2 097	1 878	843
Germany					
Metals	25	29	10	9	12
Rare earth compounds	601	660	699	319	551
Ferro-cerium & other pyrophoric alloys	...	5	3	6	10
Ireland, Republic of					
Ferro-cerium & other pyrophoric alloys	...	...	...	14	5
Italy					
Metals	101	145	111	100	80
Rare earth compounds	236	322	353	319	250
Ferro-cerium & other pyrophoric alloys	...	3	6	4	3
Lithuania					
Cerium compounds	12	10	7	9	5
Netherlands					
Metals	86	70	163	2 688	142
Rare earth compounds	177	327	341	256	223
Ferro-cerium & other pyrophoric alloys	49	18	32	14	5
Norway					
Metals	—	19	5	54	—
Rare earth compounds	30	23	13	35	15
Poland					
Cerium compounds	7	86	1	9	20
Other rare earth compounds	4	66	3	4	5
Portugal					
Other rare earth compounds	9	2	—	0	—
Slovenia					
Metals	...	7	2	1	3
Spain					
Metals	97	51	1	2	2
Cerium compounds	51	62	8	25	38
Other rare earth compounds	34	32	9	9	6
Ferro-cerium & other pyrophoric alloys	...	...	...	11	72
Sweden					
Cerium compounds	9	* 0	5	3	3
Switzerland					
Cerium compounds	2	9	5	3	4
Other rare earth compounds	1	1	5	1	1

## Rare Earths

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Turkey					
Cerium compounds	5	10	5	9	23
Ferro-cerium & other pyrophoric alloys	...	...	...	50	21
United Kingdom					
Metals	46	272	54	65	18
Cerium compounds	182	149	273	48	24
Other rare earth compounds	614	347	214	220	275
Ferro-cerium & other pyrophoric alloys	37	48	79	40	152

## Notes

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

## Imports of rare earths

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metals	550	325	442	595	429
Cerium compounds	1 766	1 310	696	979	765
Other rare earth compounds	3 375	1 646	802	1 630	1 973
Belgium					
Metals	411	205	136	205	6
Cerium compounds	323	289	146	204	401
Other rare earth compounds	172	58	41	52	19
Ferro-cerium & other pyrophoric alloys	2	0	7	0	1
Croatia					
Ferro-cerium & other pyrophoric alloys	106	133	116	52	29
Cyprus					
Cerium compounds	24	0	16	...	—
Ferro-cerium & other pyrophoric alloys	18	...	—	—	39
Czech Republic					
Metals	13	35	2	...	1
Rare earth compounds	131	117	344	190	274
Ferro-cerium & other pyrophoric alloys	6	2	1	1	1
Denmark					
Cerium compounds	15	16	19	16	8
Other rare earth compounds	19	6	3	20	* 20
Estonia					
Cerium compounds	24	501	545	300	235
Other rare earth compounds	2 105	3 616	4 499	4 494	6 057
Finland					
Cerium compounds	72	52	18	23	14
Other rare earth compounds	8	14	5	3	1
Ferro-cerium & other pyrophoric alloys	2	2	10	12	11
France					
Metals	372	506	280	338	191
Cerium compounds	5 687	1 867	3 940	* 1 900	* 500
Other rare earth compounds	1 408	1 359	1 301	1 396	574
Ferro-cerium & other pyrophoric alloys	83	388	940	242	932
Germany					
Metals	459	263	290	267	276
Cerium compounds	1 006	844	553	862	1 601
Other rare earth compounds	9 999	6 904	4 155	5 862	5 618
Ferro-cerium & other pyrophoric alloys	6	14	11	13	12
Greece					
Rare earth compounds	3	4	11	12	3
Ferro-cerium & other pyrophoric alloys	65	62	169	20	1
Hungary					
Cerium compounds	38	33	31	20	42
Other rare earth compounds	31	23	31	11	15
Iceland					
Metals	350	77	...	...	...
Ireland, Republic of					
Rare earth compounds	8	85	3	2	4



## Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Italy					
Metals	124	108	30	62	96
Cerium compounds	597	616	337	565	220
Other rare earth compounds	303	307	257	232	276
Ferro-cerium & other pyrophoric alloys	10	3	3	1	3
Lithuania					
Rare earth compounds	14	11	10	11	4
Luxembourg					
Rare earth compounds	2	5	2	1	183
Ferro-cerium & other pyrophoric alloys	11	0	—	—	—
Netherlands					
Metals	48	18	99	75	94
Cerium compounds	88	223	396	268	201
Other rare earth compounds	568	173	742	878	1 094
Ferro-cerium & other pyrophoric alloys	2	1	23	14	...
Norway					
Metals	148	552	438	439	361
Cerium compounds	1	13	3	—	3
Other rare earth compounds	8	9	9	17	11
Poland					
Metals	5	0	2	27	2
Cerium compounds	134	86	68	104	184
Other rare earth compounds	48	32	13	13	14
Portugal					
Metals	1	87	—	1	1
Cerium compounds	7	8	7	6	1
Other rare earth compounds	5	18	3	3	3
Romania					
Rare earth compounds	5	1	2	1	4
Slovakia					
Rare earth compounds	8	10	7	10	9
Slovenia					
Metals	98	26	55	61	65
Rare earth compounds	3	3	9	5	13
Spain					
Metals	421	9	19	93	296
Cerium compounds	543	636	455	729	457
Other rare earth compounds	216	102	155	438	266
Ferro-cerium & other pyrophoric alloys	41	33	22	35	209
Sweden					
Metals	37	48	72	62	52
Cerium compounds	47	55	31	1	1
Other rare earth compounds	7	9	16	37	21
Switzerland					
Metals	4	5	21	11	5
Cerium compounds	31	18	15	11	14
Other rare earth compounds	16	12	17	40	38
Ferro-cerium & other pyrophoric alloys	...	5	3	23	1
Turkey					
Metals	14	13	10	5	8
Cerium compounds	233	128	120	160	103
Other rare earth compounds	13	8	4	11	11
Ferro-cerium & other pyrophoric alloys	...	...	13	18	107
United Kingdom					
Metals	119	79	65	128	127
Cerium compounds	1 119	1 713	485	633	603
Other rare earth compounds	322	629	518	654	591
Ferro-cerium & other pyrophoric alloys	150	79	14	50	28

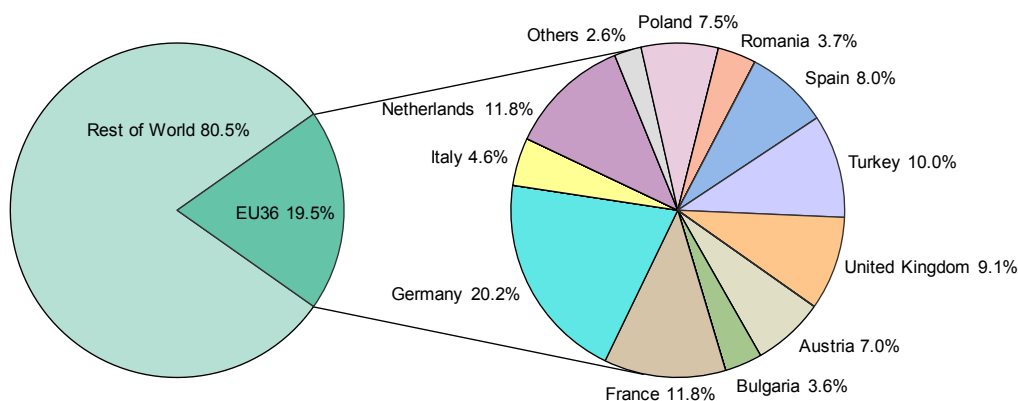
## Notes

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

## Salt

- Salt (sodium chloride) is a fundamental chemical of life. However, human consumption accounts for a small fraction of salt usage. Industrial use is far higher, particularly in the chemical industry as a source of soda and chlorine. Salt is also used to 'grit' roads to prevent the formation of ice between 0°C and -6°C.
- Most countries in the world have some salt production from rock salt, brine or seawater. China was the world's largest producer in 2014, with 23 per cent of the total world output. The second largest was USA (16 per cent), followed by India (ten per cent), Germany and Australia (with five per cent each).

**EU36 Production of salt 2014**



## Production of salt

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Sea salt	* 47 000	* 47 000	* 47 000	* 47 000	* 47 000
Austria					
Rock salt	95	169	222	184	245
Salt in brine	1 071 842	1 150 474	3 193 216	3 717 419	3 846 881
Bulgaria	1 900 000	2 200 000	2 100 000	2 000 000	* 2 000 000
Croatia	66 835	53 963	45 992	42 502	33 039
Denmark	601 046	* 595 000	* 590 000	580 000	* 580 000
France	* 8 500 000	* 8 500 000	6 545 600	7 312 200	6 500 000
Germany					
Rock salt	9 992 156	8 765 168	5 938 855	8 510 652	4 928 656
Brine salt	2 118 484	2 217 205	2 182 440	2 164 456	2 133 359
Salt in brine	* 4 500 000	* 6 500 000	* 10 900 000	7 878 895	4 075 004
Greece	164 000	174 500	191 970	189 500	* 190 000
Italy					
Rock salt & brine salt	4 006 882	2 912 128	2 862 440	2 672 340	2 560 441
Montenegro					
Sea salt	11 200	10 000	16 000	10 000	* 10 000
Netherlands	5 982 000	6 866 000	6 513 000	6 517 000	6 500 000
Poland					
Rock salt	1 221 700	1 233 800	782 500	1 310 500	763 100
Brine salt	2 464 400	2 633 300	2 732 200	2 735 500	2 705 100
Other salt	763 515	768 000	724 000	686 352	641 769
Portugal					
Rock salt	618 961	631 295	520 284	473 095	69 702
Sea salt	44 574	47 267	88 693	91 282	96 321
Romania	2 388 357	2 248 940	1 888 516	2 127 780	2 046 740
Serbia	30 816	23 334	16 506	13 704	12 994
Slovenia	59	4 291	5 684	3 360	—
Spain					
Rock salt	3 115 940	3 096 383	2 785 959	2 973 993	* 3 000 000
Sea salt	1 242 718	1 314 529	1 222 060	1 221 018	1 320 000
Other salt	92 644	92 850	100 643	114 829	105 000

## Production continued

tonnes

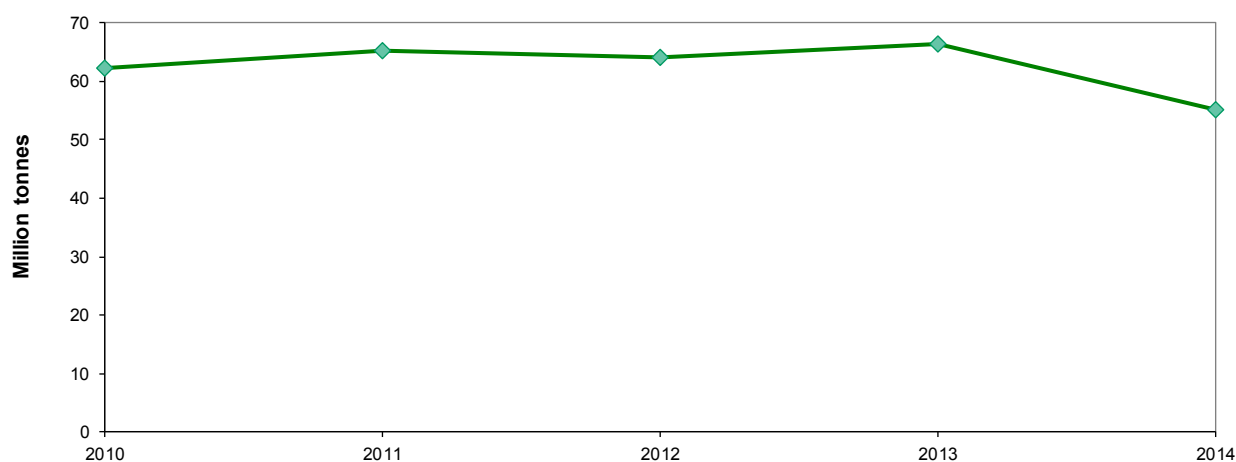
Country	2010	2011	2012	2013	2014
Switzerland	643 000	478 324	492 700	560 076	418 389
Turkey	4 044 254	6 545 546	5 254 813	5 564 736	* 5 500 000
United Kingdom	6 666 000	6 060 000	6 460 000	6 930 000	* 5 000 000
EU36 total	62 300 000	65 200 000	64 200 000	66 400 000	55 100 000

## Notes

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

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

EU36 Production of salt 2010 - 14



## Exports of salt

tonnes

Country	2010	2011	2012	2013	2014
Albania	2 748	13 557	35 464	30 574	24 695
Austria	500 126	392 506	404 069	475 453	508 940
Belgium	288 679	354 644	151 767	269 571	151 954
Bulgaria	1 078	6 074	170	1 313	892
Croatia	20 721	24 561	21 548	26 247	19 141
Cyprus	7 929	6 260	5 765	2 308	5 290
Czech Republic	51 289	41 658	25 883	80 306	26 498
Denmark	319 317	296 459	391 879	324 030	370 885
Estonia	2 055	3 685	2 968	4 383	4 956
Finland	11 380	1 370	401	935	1 407
France	297 909	190 124	147 441	207 111	148 107
Germany	3 097 654	2 735 634	2 207 276	2 685 408	2 775 974
Greece	59 655	65 014	41 292	38 494	44 999
Hungary	1 356	39 405	14 663	9 460	7 805
Iceland	1 093	1 402	694	1 228	1 356
Ireland, Republic of	10 183	1 540	2 608	2 656	3 549
Italy	919 673	1 017 938	473 826	776 645	459 773
Latvia	23 172	35 545	21 741	25 536	21 949
Lithuania	19 031	13 514	7 653	19 753	21 680
Macedonia	2 666	5 456	4 898	3 195	3 318
Montenegro	14 316	1 560	1 845	2 158	692
Netherlands	3 456 740	2 631 255	2 456 168	4 304 382	4 290 537
Norway	12 609	5 775	17 053	9 211	14 597
Poland	572 595	515 723	393 235	625 660	307 444
Portugal	31 022	31 304	37 302	33 633	28 458
Romania	790 530	712 657	635 801	808 606	612 954
Serbia	16 290	13 362	5 073	9 987	9 861

## Salt

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Slovakia	45 056	27 935	20 917	20 151	13 942
Slovenia	21 711	33 998	30 498	17 001	15 002
Spain	1 311 257	1 311 383	807 026	1 496 873	1 145 725
Sweden	12 742	13 297	8 973	6 459	7 219
Switzerland	67 537	71 525	58 820	70 945	61 889
Turkey	262 050	417 596	66 690	90 656	159 791
United Kingdom	450 246	489 633	396 155	497 670	772 971

## Imports of salt

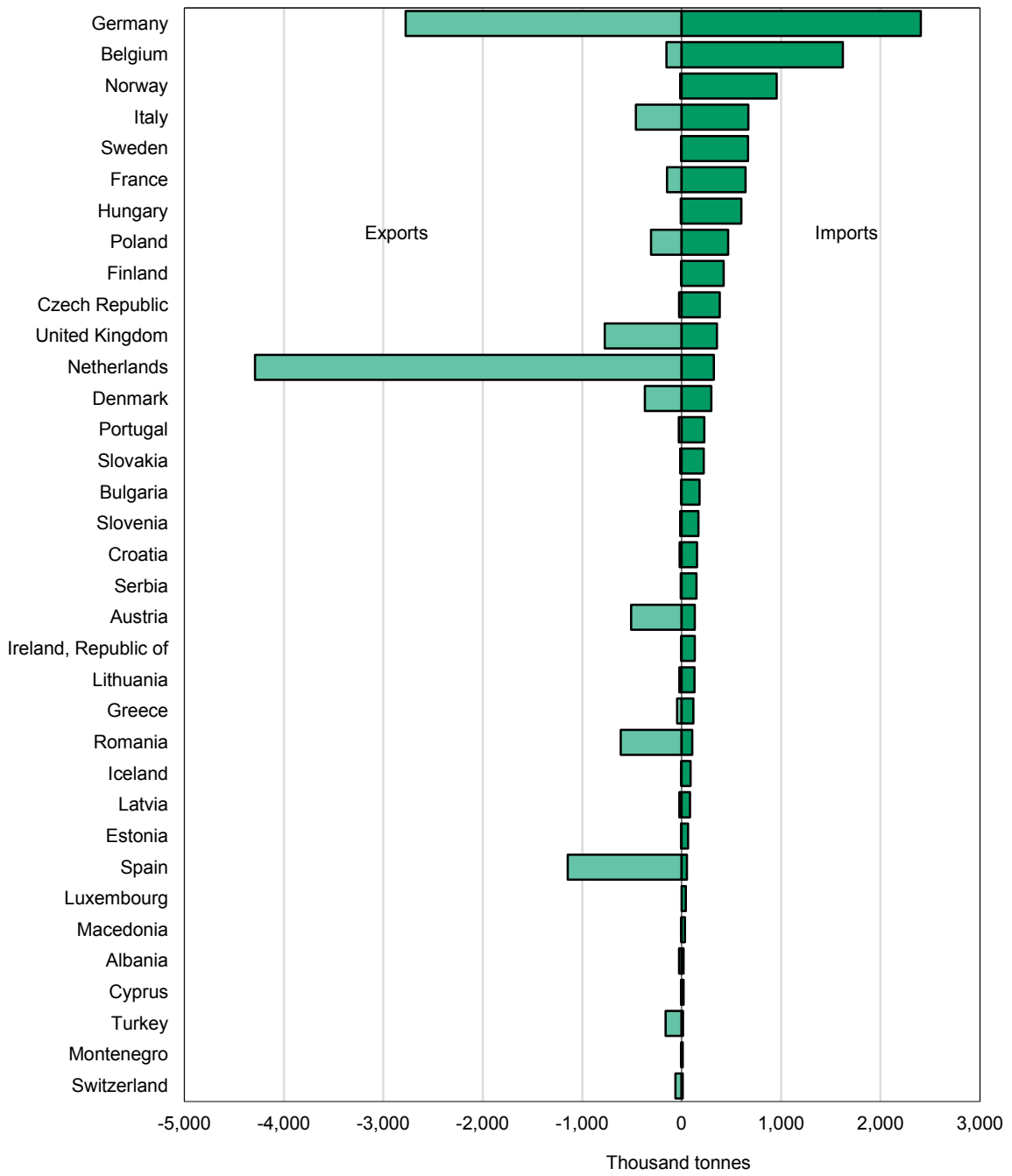
tonnes

Country	2010	2011	2012	2013	2014
Albania	15 415	22 903	14 098	9 647	19 787
Austria	293 799	291 187	162 790	314 374	132 360
Belgium	1 751 650	2 001 517	1 272 556	1 696 164	1 620 942
Bulgaria	215 355	214 732	252 392	163 880	181 412
Croatia	287 609	190 963	201 542	256 162	155 427
Cyprus	23 836	20 998	20 470	16 683	18 724
Czech Republic	958 474	858 980	560 186	1 046 589	382 879
Denmark	762 420	907 135	351 217	715 813	299 129
Estonia	73 254	85 105	73 248	43 617	65 197
Finland	384 089	452 873	385 359	380 753	423 978
France	1 653 101	1 622 835	705 665	1 157 520	643 237
Germany	2 654 736	3 477 233	2 277 714	2 376 658	2 404 752
Greece	144 367	173 050	154 435	146 686	117 853
Hungary	704 143	800 950	540 297	841 520	599 639
Iceland	65 342	94 177	100 020	84 266	88 758
Ireland, Republic of	172 053	308 884	105 270	131 516	131 561
Italy	1 119 583	1 045 659	1 128 585	943 961	670 659
Latvia	163 486	198 975	135 514	187 521	85 353
Lithuania	209 506	246 724	154 780	225 754	130 638
Luxembourg	77 304	91 033	24 059	86 365	41 338
Macedonia	42 011	39 986	49 248	43 611	34 013
Malta	1 682	1 366	2 567	1 464	2 009
Montenegro	6 470	9 600	6 795	6 137	10 034
Netherlands	1 404 032	2 397 781	331 643	1 090 957	324 274
Norway	1 042 489	1 106 066	1 052 197	1 029 977	954 563
Poland	886 294	1 052 650	451 619	906 654	468 938
Portugal	172 107	144 688	182 585	149 922	227 884
Romania	81 441	114 500	94 288	107 859	106 703
Serbia	204 395	274 636	246 280	197 570	148 063
Slovakia	266 329	244 787	226 571	408 235	221 269
Slovenia	317 999	235 663	142 926	284 695	169 045
Spain	85 807	116 804	48 061	182 413	54 335
Sweden	905 190	933 936	745 276	958 222	669 334
Switzerland	37 731	58 307	23 179	27 569	9 701
Turkey	154 536	254 045	248 663	(a)* 72 000	13 959
United Kingdom	1 288 253	1 814 865	418 028	738 670	356 289

## Notes

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

Salt - EU36 trade in 2014



## 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 2014 followed by USA, India and France. 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	2010	2011	2012	2013	2014
France					
Andalusite	* 65 000	* 65 000	* 68 000	* 68 000	* 68 000

## Notes

(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	2010	2011	2012	2013	2014
Belgium	53 940	51 011	35 685	32 902	33 547
France	49 011	55 316	43 751	43 457	50 394
Germany	13 379	18 818	17 287	19 614	20 557
Hungary	7 505	8 180	6 335	7 641	6 599
Netherlands	6 907	23 239	13 447	18 958	6 494
Spain	288	358	796	1 585	1 514
Turkey	2 623	3 357	4 444	6 278	22
United Kingdom	1 378	1 761	1 141	1 459	1 065

## Notes

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

### Imports of sillimanite minerals

tonnes

Country	2010	2011	2012	2013	2014
Austria	2 089	2 224	3 093	1 941	1 289
Belgium					
Sillimanite minerals	53 115	50 427	32 683	31 070	38 669
Mullite	1 955	1 690	4 139	3 391	3 045
Czech Republic					
Sillimanite minerals	3 682	4 089	4 132	7 867	4 919
Mullite	758	818	606	1 142	713
Denmark					
Sillimanite minerals	1 124	792	386	1 338	1 276
Mullite	3 199	2 590	1 714	1 639	2 239
France					
Sillimanite minerals	3 110	3 502	1 930	2 576	2 573
Mullite	2 663	3 831	2 919	2 948	2 650
Germany					
Sillimanite minerals	47 738	48 748	54 045	50 227	70 963
Mullite	47 775	72 049	51 709	57 152	28 806
Greece	44	220	94	425	1 008
Hungary					
Sillimanite minerals	2 100	2 903	3 039	2 515	4 165
Mullite	1 348	1 854	1 352	1 364	1 174

Imports continued					tonnes
Country	2010	2011	2012	2013	2014
Italy					
Sillimanite minerals	14 473	17 937	11 720	10 465	16 054
Mullite	16 141	13 564	16 084	6 728	10 739
Netherlands					
Sillimanite minerals	3 576	13 342	13 177	24 417	20 577
Mullite	51 745	64 162	34 244	32 464	49 343
Norway	3 456	3 208	3 626	2 767	2 520
Poland					
Sillimanite minerals	17 956	13 791	17 567	20 761	23 924
Mullite	2 109	2 817	2 757	2 299	2 476
Portugal	466	641	2 241	794	962
Slovakia	2 456	2 917	844	2 002	2 036
Slovenia	363	921	1 901	3 970	3 706
Spain					
Sillimanite minerals	27 611	32 091	12 372	24 416	30 600
Mullite	4 934	6 153	2 465	3 274	4 371
Sweden	4 782	5 174	4 225	4 677	4 906
Switzerland	1 162	1 596	1 079	1 580	1 169
Turkey					
Sillimanite minerals	5 466	6 907	6 905	9 434	11 122
Mullite	12 675	10 733	8 827	5 530	2 072
United Kingdom					
Sillimanite minerals	7 419	12 485	10 562	6 058	6 814
Mullite	8 276	3 491	4 588	3 746	7 306

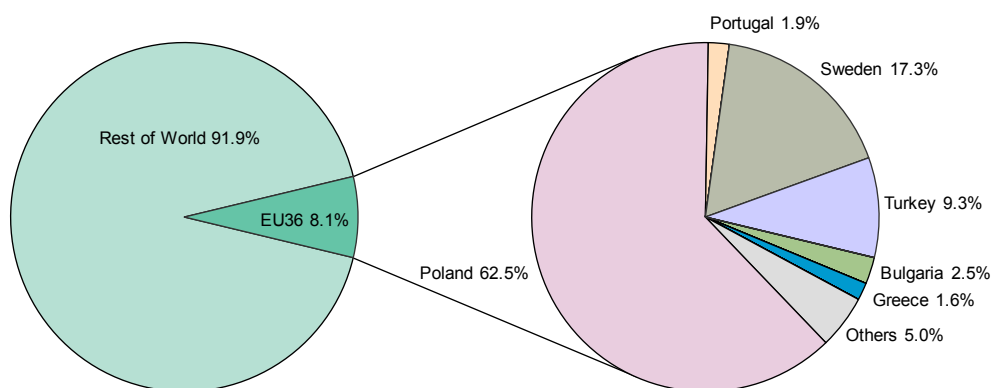
## Notes

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

## 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 2014, with 21 per cent of the total world output. The second largest producer was Peru (with 14 per cent), followed by China (13 per cent), Australia (seven per cent), and Chile (six per cent).

**EU36 Mine production of silver 2014**



### Mine production of silver

kilograms (metal content)

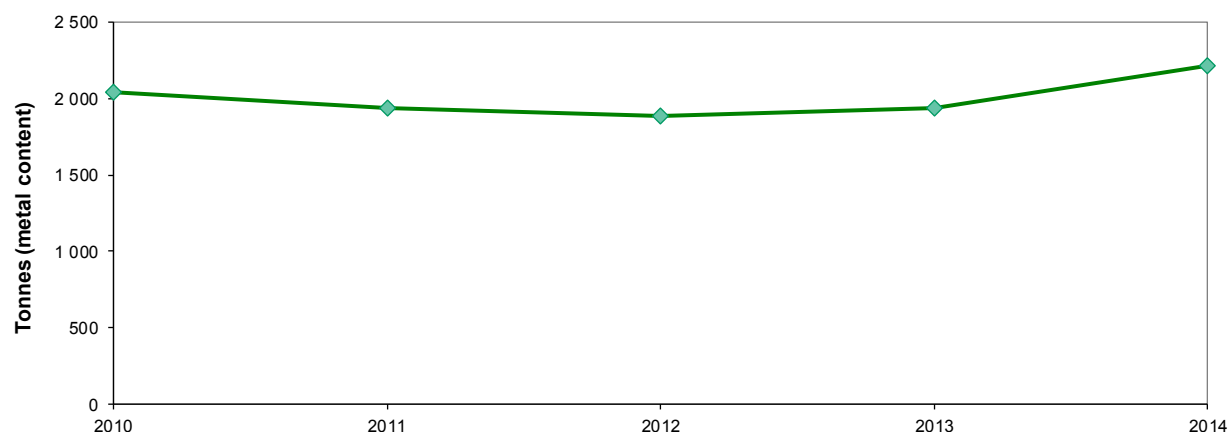
Country	2010	2011	2012	2013	2014
Bulgaria	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Finland	11 020	11 160	10 479	14 226	12 830
Greece	29 000	* 33 300	* 39 800	39 759	35 785
Ireland, Republic of	3 818	6 109	9 454	7 822	6 436
Macedonia	* 32 000	* 30 000	* 31 000	* 32 000	* 33 000
Poland	1 183 000	1 167 000	1 149 000	1 161 114	1 384 000
Portugal	20 561	28 027	29 890	40 621	43 172
Romania	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Serbia (a)	4 384	7 380	8 388	* 8 400	* 8 400
Slovakia	320	330	441	508	437
Spain	20 800	29 900	32 943	* 31 000	* 31 000
Sweden	302 145	301 959	309 337	341 346	382 611
Turkey	363 520	246 500	193 890	189 600	205 000
United Kingdom	506	531	230	82	—
<b>EU36 total</b>	<b>2 044 000</b>	<b>1 935 000</b>	<b>1 888 000</b>	<b>1 939 000</b>	<b>2 216 000</b>

#### Notes

(a) Smelter and/or refinery production



## EU36 Mine production of silver 2010 - 14



## Exports of silver

kilograms

Country	2010	2011	2012	2013	2014
Austria					
Metal	100 300	136 000	155 200	134 800	110 700
Belgium					
Ores & concentrates	12 300	2 149 800	1 409 800	982 300	2 009 800
Metal	21 800	197 000	311 900	(a)* 152 906	1 600
Bulgaria					
Ores & concentrates	...	8 900	...	(a)* 1 449 000	3 469 100
Metal	37 300	35 200	49 000	52 600	50 200
Croatia					
Metal	93	839	2 558	5 500	900
Cyprus					
Metal	400	1 900	2 500	1 200	200
Czech Republic					
Ores & concentrates	990 205	3	2	2	3 648
Metal	74 600	399 700	187 000	432 800	215 100
Denmark					
Ores & concentrates	...	422 100	1 533 800	645 100	874 600
Metal	30 300	53 800	30 100	29 700	147 400
Estonia					
Metal	200	4 600	1 600	1 400	900
Finland					
Ores & concentrates	(a)* 70	46	(a)* 100	...	602 054
Metal	1 162	1 336	1 084	3 058	1 839
France					
Ores & concentrates	—	4 053	319	591 800	81 450
Metal	258 205	511 716	392 507	420 267	382 845
Germany					
Metal	3 397 674	3 368 313	2 984 504	2 944 492	3 135 036
Greece					
Metal	19 700	13 900	14 100	54 200	4 500
Hungary					
Metal	3 300	29 200	4 000	8 200	24 200
Ireland, Republic of					
Metal	...	263	824	608	666
Italy					
Ores & concentrates	38	—	1	112	3 538
Metal	715 501	995 384	979 652	1 024 151	1 027 173
Latvia					
Metal	300	1 600	100	3 600	2 200
Lithuania					
Metal	1 100	1 600	2 900	3 100	700
Luxembourg					
Metal	1 409	3 324	1 152	1 884	300

## Silver

## Exports continued

kilograms

Country	2010	2011	2012	2013	2014
Malta					
Metal	100	500	500	100	200
Montenegro					
Metal	...	—	14	372	42 403
Netherlands					
Ores & concentrates	1 458	6 944	123	—	—
Metal	216 182	624 589	241 614	555 475	160 451
Norway					
Metal	57 617	62 849	49 856	48 129	52 256
Poland					
Metal	1 281 800	1 328 900	1 378 800	1 245 000	1 436 700
Portugal					
Ores & concentrates	12 300	16 300	15 100	25 200	14 100
Metal	3 400	10 600	40 600	34 200	20 400
Romania					
Ores & concentrates	...	(a)* 217 000	...	(a)* 181 000	36 200
Serbia					
Metal	4 355	4 222	3 044	7 084	6 978
Slovakia					
Metal	39 100	15 100	31 500	28 800	37 900
Slovenia					
Metal	3 100	3 600	3 800	14 400	19 300
Spain					
Ores & concentrates	377	9 847	30 748	896	1 278
Metal	417 381	383 412	626 782	670 633	13 855 475
Sweden					
Metal	412 900	428 500	480 100	457 100	501 000
Switzerland					
Metal	1 456 475	1 779 063	1 719 300	2 490 396	2 195 532
Turkey					
Metal	144 942	202 886	216 509	209 094	93 889
United Kingdom					
Ores & concentrates	2 035	206	—	2 174	1 584
Metal	2 579 909	3 937 294	3 197 152	4 219 571	3 516 844
Waste & scrap	5 160 290	11 649 846	19 737 958	17 177 345	11 220 895

## Notes

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

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

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

## Imports of silver

kilograms

Country	2010	2011	2012	2013	2014
Albania					
Metal	7 819	4 485	2 768	3 327	230
Austria					
Metal	481 800	804 000	331 500	583 000	267 100
Belgium					
Ores & concentrates	6 000 300	7 619 600	25 085 300	2 799 000	—
Metal	86 500	71 100	80 200	60 400	55 200
Bulgaria					
Ores & concentrates	91	...	...	88 200	...
Metal	2 408	4 300	12 800	4 900	3 400
Croatia					
Metal	3 212	3 868	3 309	2 859	2 700
Cyprus					
Metal	1 200	2 200	500	200	300
Czech Republic					
Ores & concentrates	990 200	—	—	—	—
Metal	136 000	1 635 700	993 700	865 000	150 100

## Imports continued

Country	2010	2011	2012	2013	2014
Denmark					
Metal	620 284	160 312	132 719	381 138	283 638
Estonia					
Metal	3 200	5 000	1 700	3 700	1 800
Finland					
Metal	50 681	26 764	19 618	13 828	14 647
France					
Ores & concentrates	4 433 810	8 499	100 102	8 713	51 561
Metal	954 773	908 080	612 382	680 836	750 677
Germany					
Ores & concentrates	4 002 438	3 493 141	5 279 656	2 590 874	5 378 985
Metal	2 322 566	2 434 577	1 858 257	2 203 529	2 157 829
Greece					
Metal	29 900	55 100	51 900	68 500	55 200
Hungary					
Metal	196 500	234 100	229 700	232 900	331 700
Iceland					
Metal	909	700	640	399	489
Ireland, Republic of					
Metal	3 999	5 431	3 571	10 137	25 963
Italy					
Ores & concentrates	70 440	31 391	11 644	102	547
Metal	1 120 080	729 807	645 344	911 101	1 062 821
Latvia					
Metal	791	2 300	1 400	7 900	2 400
Lithuania					
Metal	6 300	7 800	9 200	11 300	13 200
Luxembourg					
Metal	24 304	11 000	2 800	1 100	2 700
Macedonia					
Metal	3 294	3 779	2 032	2 781	2 059
Malta					
Metal	128	100	100	800	700
Netherlands					
Metal	304 219	338 239	301 089	321 318	179 287
Norway					
Ores & concentrates	(a)* 1 100	(a)* 700	(a)* 4 700	...	...
Metal	57 422	49 727	47 768	27 060	36 991
Poland					
Metal	106 700	78 600	82 800	76 900	76 500
Portugal					
Metal	66 900	38 700	22 200	37 300	31 700
Romania					
Metal (a)	* 27 500	* 8 100	* 15 900	* 14 600	* 71 400
Serbia					
Metal	* 741	* 800	411	1 846	1 670
Slovakia					
Metal	55 300	* 47 000	268 700	97 800	168 400
Slovenia					
Metal	24 100	29 700	25 100	26 900	21 200
Spain					
Ores & concentrates	11 317	17 131	123 171	11 356	3 395
Metal	1 513 257	828 017	431 934	8 665 969	10 281 452
Sweden					
Ores & concentrates	...	(a)* 87	(a)* 131	...	72 400
Metal	83 700	90 900	94 900	80 900	68 500
Switzerland					
Ores & concentrates	* 24 000	* 115 000	* 30 000	* 31 000	* 22 000
Metal	1 746 243	2 155 625	2 397 273	1 935 822	1 279 130
Turkey					
Metal	90 064	209 909	226 227	299 109	316 698

Silver

Imports continued

kilograms

Country	2010	2011	2012	2013	2014
United Kingdom					
Ores & concentrates	9 737	1 209	6 287	72 454	394 649
Metal	3 278 015	3 686 011	8 525 994	6 097 865	4 740 438
Waste & scrap	4 137 096	13 713 610	5 946 307	6 668 845	5 107 834

Notes

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

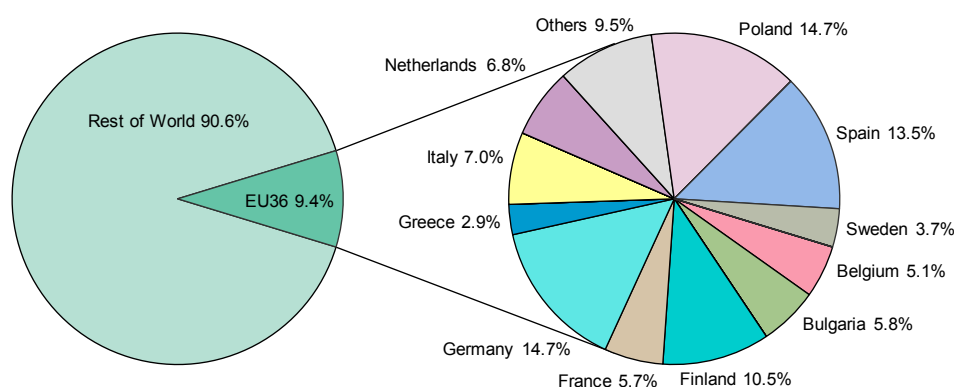
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

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

## Sulphur and pyrites

- Sulphur is 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 2014 were the USA (14 per cent of the total world output), followed by China (11 per cent) and Russia (ten per cent). The largest world producer of pyrites and sulphur ore was China (with 94 per cent and 96 per cent respectively of the total world output).

**EU36 Production of sulphur and pyrites 2014**



## Production of sulphur and pyrites

tonnes (sulphur content)

Country	2010	2011	2012	2013	2014
Austria					
Recovered (a)	40 512	48 612	47 572	45 442	44 560
Belgium					
Recovered (a)(b)	353 000	396 500	382 100	396 900	* 400 000
Bulgaria					
Recovered (b)	379 000	411 800	375 800	392 200	* 392 000
Recovered (a)	50 000	50 000	55 000	60 000	* 60 000
Croatia					
Recovered (a)	6 834	14 725	17 411	15 902	19 384
Czech Republic					
Recovered (a)	65 000	35 000	35 000	35 000	* 35 000
Denmark					
Recovered (a)	3 246	3 045	3 925	3 599	4 435
Finland					
Pyrites	250 000	338 000	375 000	347 000	353 000
Recovered (b)	269 449	319 971	329 831	315 958	336 168
Recovered (a)	122 000	133 300	121 700	130 000	* 130 000
France					
Recovered (a)	570 000	505 000	440 000	370 000	* 370 000
Recovered (c)	78 400	78 400	78 400	78 400	* 78 400
Germany					
Recovered (a)	831 533	874 639	798 257	754 540	708 146
Recovered (c)	520 220	542 210	493 169	464 776	437 677
Greece					
Recovered (a)	230 000	214 943	227 197	230 000	* 230 000
Hungary					
Recovered (a)	55 000	60 000	65 000	58 000	* 54 000
Italy					
Recovered (b)	124 200	65 400	58 800	40 200	* 40 200
Recovered (a)	600 000	620 000	540 000	510 000	* 510 000
Lithuania					
Recovered (a)	73 470	76 699	73 040	81 449	76 594

Sulphur and pyrites

Production continued

tonnes (sulphur content)

Country	2010	2011	2012	2013	2014
Netherlands					
Recovered (b)	121 000	120 900	117 600	120 900	* 120 000
Recovered (a)	465 000	470 000	450 000	430 000	* 410 000
Norway					
Recovered (b)	36 900	37 531	41 464	38 745	40 119
Recovered (a)	22 000	19 000	20 000	22 000	* 22 000
Poland					
Frasch	516 700	657 100	702 190	526 290	605 420
Recovered (b)	253 000	273 000	267 000	260 000	* 260 000
Recovered (a)	250 075	259 000	285 000	* 280 000	* 280 000
Portugal					
Recovered	23 000	20 500	20 600	* 21 000	* 21 000
Romania					
Recovered	50 700	55 600	50 000	60 000	* 47 000
Serbia					
Recovered (b)	21 200	27 800	29 700	29 400	* 29 400
Slovakia					
Recovered (b)	4 900	4 900	4 900	4 900	* 4 900
Recovered (a)	73 200	83 300	76 200	85 300	* 85 300
Spain					
Recovered (b)	547 400	490 200	578 400	539 200	* 539 000
Recovered (a)	480 000	520 000	545 000	515 000	* 515 000
Sweden					
Recovered (b)	180 540	211 280	198 850	194 938	205 616
Recovered (a)	83 947	92 973	93 442	64 587	86 538
Turkey					
Pyrites	55 152	56 780	52 080	45 348	* 40 000
Recovered (a)(c)	72 900	72 900	72 900	* 72 900	* 72 900
Sulphur ore	427	3 820	5 889	8 069	* 10 000
United Kingdom					
Recovered (a)	162 000	165 000	158 000	313 000	134 000
EU36 total					
Pyrites	305 000	395 000	427 000	392 000	393 000
Ore	400	4 000	6 000	8 000	10 000
Frasch	517 000	657 000	702 000	526 000	605 000
Recovered	7 220 000	7 374 000	7 151 000	7 034 000	6 799 000

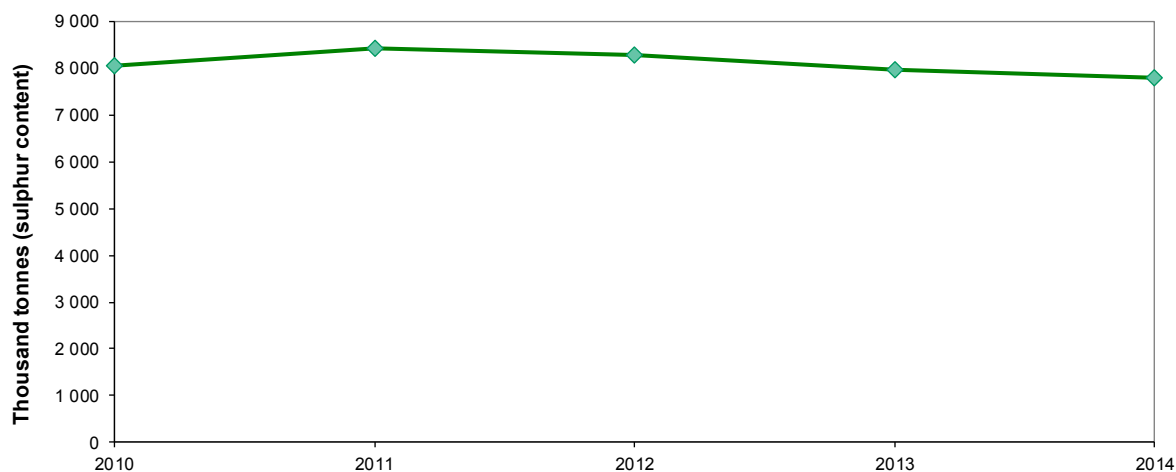
Notes

(a) From petroleum refining and/or natural gas

(b) From metal sulphide processing

(c) Other

EU36 Production of sulphur and pyrites 2010 - 14



## Exports of sulphur and pyrites

tonnes

Country	2010	2011	2012	2013	2014
Albania					
Pyrites	...	...	5 076	10 560	...
Austria					
Pyrites	2 794	2 887	2 579	1 523	965
Sulphur, sublimed and precipitated	1 145	746	2 138	3 425	2 230
Belgium					
Sulphur	21 533	34 087	10 274	9 828	27 977
Sulphur, sublimed and precipitated	193	83	119	298	85
Bulgaria					
Sulphur	40 286	38 097	41 601	45 592	39 738
Croatia					
Sulphur	6 565	14 256	15 801	12 917	17 107
Czech Republic					
Sulphur	12 124	980	1 852	9 195	7 084
Sulphur, sublimed and precipitated	330	260	183	44	69
Denmark					
Sulphur	12	39	4 814	14 543	46
Estonia					
Sulphur	45	621	—	—	—
Finland					
Pyrites (a)	* 198 000	* 460 000	* 520 000	* 316 000	* 718 000
Sulphur	2 715	2 404	2 871	(a)* 80	(a)* 200
France					
Sulphur	296 345	248 989	237 974	193 899	95 143
Sulphur, sublimed and precipitated	565	556	394	232	99
Germany					
Pyrites	755	440	342	301	1 457
Sulphur	671 836	721 717	525 622	474 875	388 333
Sulphur, sublimed and precipitated	271	1 380	274	493	6 427
Greece					
Pyrites	28 680	42	3 776	57 800	40 037
Sulphur	4 594	35 279	167 611	204 170	208 051
Hungary					
Sulphur	44 098	48 616	43 855	49 438	56 509
Italy					
Pyrites	13 698	16 032	11 114	13 741	13 208
Sulphur	286 954	285 891	249 274	212 188	146 971
Sulphur, sublimed and precipitated	22 485	55 740	17 021	5 279	20 028
Lithuania					
Sulphur	1 227	403	759	383	36 476
Macedonia					
Sulphur	1 653	877	197	170	...
Netherlands					
Pyrites	56 610	101 114	84 734	13 367	45 579
Sulphur	480 968	469 819	561 995	395 938	441 806
Poland					
Sulphur	402 102	394 861	506 641	406 030	506 889
Sulphur, sublimed and precipitated	34 752	26 542	29 757	500	42 324
Portugal					
Sulphur	6 164	9 737	7 065	24 478	32 210
Romania					
Sulphur	55 961	58 437	54 016	63 651	78 970
Serbia					
Sulphur	2 335	3 571	2 760	12 556	15 352
Slovakia					
Sulphur	448	1 998	2 456	2 075	2 528
Sulphur, sublimed and precipitated	72 910	82 785	74 817	86 343	74 490
Slovenia					
Sulphur	1 016	145	190	79	403
Spain					
Sulphur	138 168	361 188	438 368	456 025	396 507
Sulphur, sublimed and precipitated	612	289	264	165	660
Sweden					
Sulphur	2 768	3 980	10 145	13 751	11 598
Sulphur, sublimed and precipitated	11 564	10 344	5 248	1 601	2 380

## Sulphur and Pyrites

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Switzerland					
Sulphur	5 310	4 864	2 160	5 494	4 854
Turkey					
Pyrites	1	...	48	1 243	14 730
Sulphur	279 822	56 143	59 116	47 765	62 847
Sulphur, sublimed and precipitated	21 068	7 949	8 757	9 454	6 221
United Kingdom					
Sulphur, crude	41 491	101 964	37 239	27 018	6 154
Sulphur, refined	1 198	3 686	14 609	7 560	24 766
Sulphur, sublimed and precipitated	1 349	2 151	21 385	7 359	31 088

## Notes

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

## Imports of sulphur and pyrites

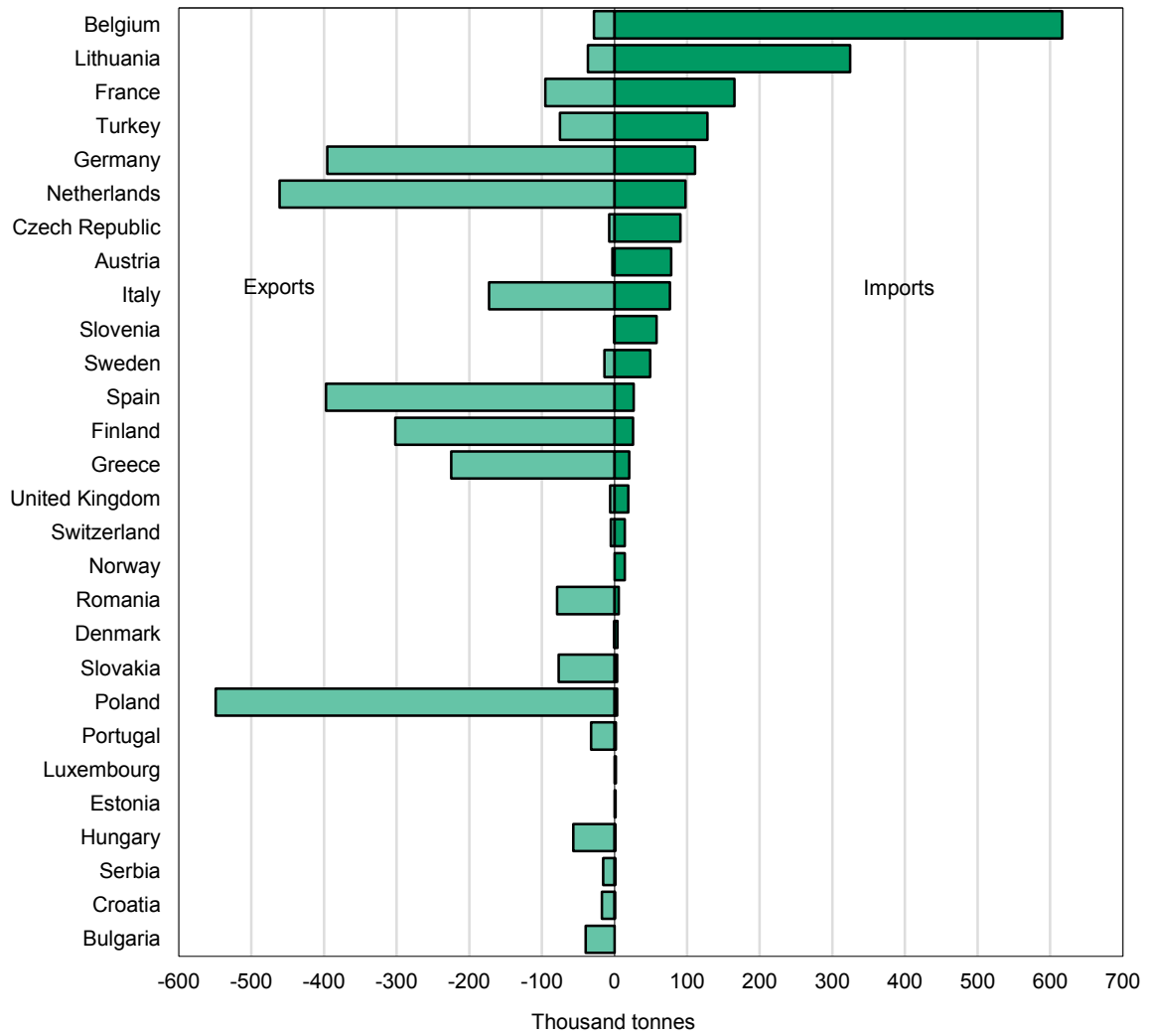
tonnes

Country	2010	2011	2012	2013	2014
Austria					
Pyrites	3 154	3 321	3 340	2 133	2 043
Sulphur	75 065	70 892	49 910	51 428	58 522
Sulphur, sublimed and precipitated	15 331	22 109	16 997	22 895	18 623
Belgium					
Pyrites	20	18	15	0	641
Sulphur	592 348	562 688	568 833	662 537	615 912
Sulphur, sublimed and precipitated	621	473	558	561	343
Croatia					
Sulphur	2 877	2 752	1 503	176	395
Sulphur, sublimed and precipitated	105	156	142	116	269
Cyprus					
Sulphur	951	625	604	664	822
Czech Republic					
Pyrites	250	247	384	366	368
Sulphur	14 762	14 945	70 008	54 000	62 706
Sulphur, sublimed and precipitated	82 355	93 289	39 459	27 870	28 056
Denmark					
Sulphur	7 051	6 123	4 173	4 339	4 253
Estonia					
Sulphur	1	2	1 344	1 224	1 487
Finland					
Sulphur	21 676	38 923	29 283	16 558	25 298
Sulphur, sublimed and precipitated	3	4	43	210	163
France					
Pyrites	183	206	136	254	564
Sulphur	78 366	92 106	108 471	145 535	164 461
Sulphur, sublimed and precipitated	410	441	481	1 623	495
Germany					
Pyrites	76 101	82 530	74 726	74 610	92 419
Sulphur	44 103	51 714	34 102	49 080	69 343
Sulphur, sublimed and precipitated	1 649	4 363	4 637	3 889	2 734
Greece					
Sulphur	42 673	80 976	31 788	38 372	20 225
Hungary					
Sulphur	3 189	1 100	981	934	1 066
Sulphur, sublimed and precipitated	119	223	172	7	224
Italy					
Pyrites	13 538	29 746	10 436	12 808	27 135
Sulphur	19 263	30 290	22 499	23 964	63 824
Sulphur, sublimed and precipitated	758	732	887	5 066	1 283
Lithuania					
Sulphur	326 485	298 977	293 839	291 622	324 726
Luxembourg					
Sulphur	2 166	1 789	1 432	1 604	1 845



Imports continued					tonnes
Country	2010	2011	2012	2013	2014
Netherlands					
Pyrites	48	1 593	329	1 481	3 288
Sulphur	49 399	229 496	80 459	117 195	96 545
Sulphur, sublimed and precipitated	4	7	3 736	1	22
Norway					
Sulphur	2 897	3 051	2 725	2 614	2 838
Sulphur, sublimed and precipitated	11 515	11 627	12 685	12 848	11 188
Poland					
Pyrites	1 866	1 255	1 480	1 473	1 574
Sulphur	44 939	53 828	30 488	8 508	2 904
Sulphur, sublimed and precipitated	164	387	6	88	76
Portugal					
Sulphur	4 861	3 981	2 726	2 367	2 007
Romania					
Sulphur	2 561	2 965	6 246	4 311	4 461
Sulphur, sublimed and precipitated	2 062	2 074	1 807	1 469	1 478
Serbia					
Sulphur	674	721	635	796	1 072
Slovakia					
Sulphur	3 855	3 173	3 115	3 571	3 773
Sulphur, sublimed and precipitated	864	1 510	735	576	64
Slovenia					
Pyrites	645	836	921	959	957
Sulphur	57 411	56 490	51 225	54 707	57 575
Spain					
Pyrites	1 160	476	384	922	805
Sulphur	68 214	44 724	13 291	20 710	25 114
Sulphur, sublimed and precipitated	229	176	300	669	1 069
Sweden					
Pyrites	874	825	744	820	754
Sulphur	56 961	65 296	42 457	34 206	48 378
Sulphur, sublimed and precipitated	200	145	130	138	555
Switzerland					
Pyrites	185	128	131	116	248
Sulphur	17 414	13 072	14 257	14 183	14 121
Turkey					
Pyrites	480	323	142	205	329
Sulphur	141 478	161 866	151 955	136 430	127 648
Sulphur, sublimed and precipitated	592	292	382	302	118
United Kingdom					
Pyrites	2 581	1 734	168	435	962
Sulphur, crude	274	590	1 125	1 374	4 439
Sulphur, refined	10 201	10 391	8 670	8 485	7 885
Sulphur, sublimed and precipitated	767	691	698	946	6 647

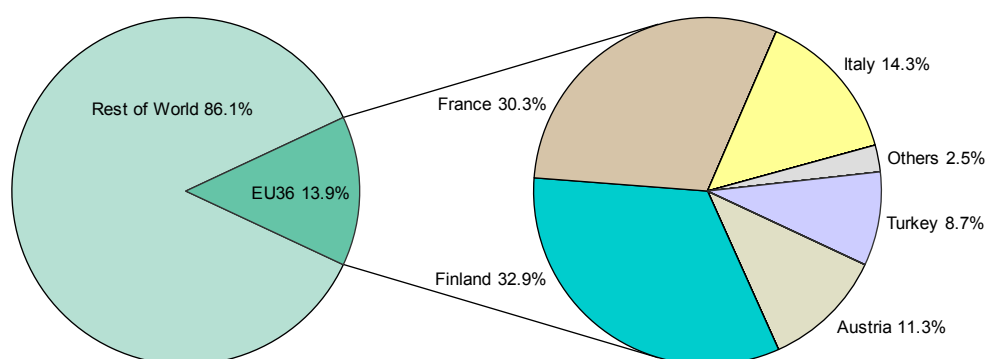
Sulphur and pyrites - EU36 trade in 2014



## 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 2014, with an estimated 27 per cent of the total world output. The second largest producer was India (12 per cent) followed by Mexico (10 per cent), South Korea (eight per cent) and Brazil (seven per cent).

**EU36 Production of talc 2014**

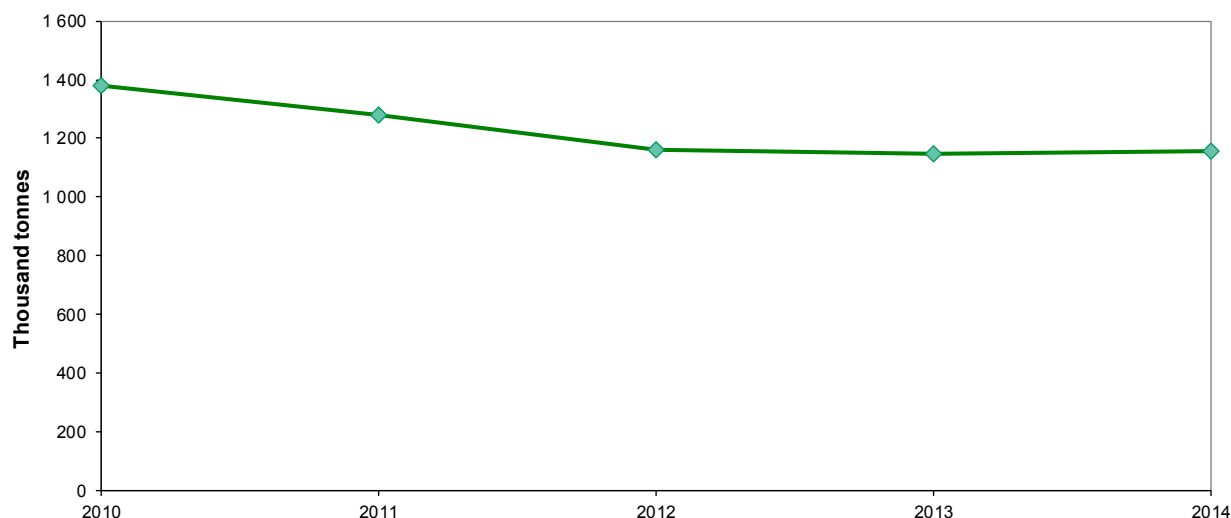


## Production of talc

tonnes

Country	2010	2011	2012	2013	2014
Austria	138 367	132 018	134 665	134 814	131 108
Finland	419 345	429 494	396 332	361 840	380 821
France	400 000	400 000	350 000	350 000	350 000
Italy	140 000	140 000	140 000	162 234	* 165 000
Macedonia	1 292	547	286	—	—
Norway	6 392	8 191	7 983	8 459	* 8 000
Portugal	11 981	15 462	15 131	11 348	14 942
Romania	296	131	13	—	—
Slovakia	7 000	7 000	2 000	10 000	3 000
Spain					
Talc	51 897	11 957	8 857	* —	* —
Pyrophyllite	—	5 600	* —	—	—
Sweden	4 000	3 000	—	—	—
Turkey					
Talc	1 826	9 959	14 537	1 132	* 1 100
Pyrophyllite	192 643	115 462	85 251	101 872	* 100 000
United Kingdom	2 633	3 708	3 667	2 947	4 907
<b>EU36 total</b>	<b>1 378 000</b>	<b>1 283 000</b>	<b>1 159 000</b>	<b>1 145 000</b>	<b>1 159 000</b>

## EU36 Production of talc 2010 - 14



## Exports of talc

tonnes

Country	2010	2011	2012	2013	2014
Austria	106 271	115 967	121 264	84 271	127 230
Belgium	128 526	125 040	109 253	114 645	102 599
Czech Republic	169	298	214	270	375
Denmark	409	235	235	188	105
Finland (a)	* 222 000	* 259 000	* 249 000	* 243 000	* 262 000
France	270 494	269 518	271 399	273 414	285 681
Germany	4 773	6 243	5 274	5 374	7 724
Greece	2 809	4 086	9 312	6 997	7 107
Hungary	173	51	69	413	26
Italy	143 236	135 418	140 618	144 432	141 343
Lithuania	350	111	126	232	40
Macedonia	636	648	380	618	368
Netherlands	173 042	147 492	150 456	145 912	166 925
Norway	728	2 204	535	648	71
Poland	869	744	830	825	520
Portugal	4 316	2 526	2 224	1 740	2 966
Slovakia	47	38	25	939	1 019
Spain	11 206	28 971	9 844	8 823	8 391
Sweden	9 014	8 308	4 598	4 915	3 598
Turkey	2 865	2 711	2 635	3 401	3 380
United Kingdom	3 074	3 171	5 026	4 681	3 570

## Notes

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

## Imports of talc

tonnes

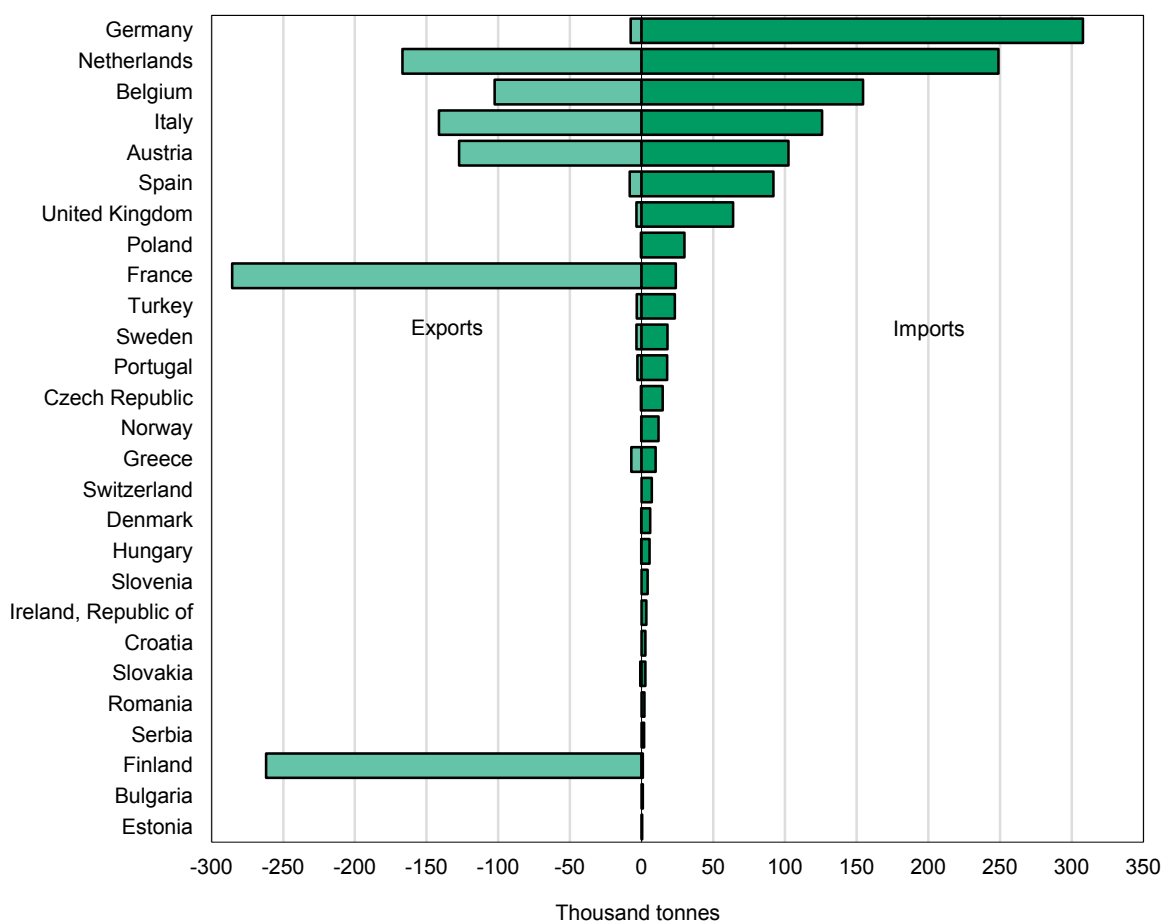
Country	2010	2011	2012	2013	2014
Austria	74 554	93 985	86 891	84 634	102 494
Belgium	183 625	175 662	163 309	168 067	154 480
Bulgaria	512	985	956	960	862
Croatia	1 813	1 578	1 774	1 989	2 739
Cyprus	307	267	133	150	172
Czech Republic	9 570	12 686	8 827	9 735	14 617
Denmark	7 013	6 276	6 883	6 469	6 025
Estonia	373	451	429	467	361
Finland	1 202	1 929	1 624	1 153	961

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
France	59 722	48 155	47 883	45 965	23 884
Germany	324 703	330 321	293 175	304 604	307 921
Greece	8 869	8 663	13 779	8 123	9 855
Hungary	6 786	6 226	5 319	6 010	5 438
Ireland, Republic of	1 140	1 320	3 033	2 982	3 303
Italy	100 934	115 046	111 333	99 446	125 992
Netherlands	178 312	199 302	182 898	213 095	249 040
Norway	8 356	8 364	8 374	10 586	11 702
Poland	23 331	26 212	26 430	34 117	29 854
Portugal	24 143	22 388	11 746	14 043	17 819
Romania	2 099	2 248	2 593	2 284	1 995
Serbia	1 616	1 270	1 432	1 957	1 764
Slovakia	719	380	470	1 098	2 679
Slovenia	10 793	4 489	4 413	4 618	4 311
Spain	84 536	88 989	80 421	91 965	92 006
Sweden	25 998	22 202	22 507	18 259	18 149
Switzerland	8 490	7 666	6 975	7 377	7 074
Turkey	20 026	26 952	23 496	28 004	23 085
United Kingdom	50 309	53 339	57 751	53 099	63 815

Talc - EU36 trade in 2014



## 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 2014 was Rwanda (with 44 per cent of the total world output), followed by Democratic Republic of Congo (with 22 per cent), Brazil (15 per cent and China (with seven per cent). The largest producer of niobium was Brazil (94 per cent of the total world output), followed by Canada (with four per cent).

### Exports of tantalum

tonnes

Country	2010	2011	2012	2013	2014
Austria	27	29	21	112	187
Belgium	4	2	2	121	3
Czech Republic	95	110	86	118	121
Estonia	34	76	49	24	38
France	20	25	41	138	42
Germany	18	38	33	30	37
Lithuania	9	18	10	6	3
Netherlands	22	42	19	12	(a)* 128
Portugal	98	81	50	27	12
Spain	4	11	3	13	7
Switzerland	—	1	2	...	23
Turkey	2	—	22	13	16
United Kingdom	191	97	336	43	61

#### Notes

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

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

### Imports of tantalum

tonnes

Country	2010	2011	2012	2013	2014
Austria	17	4	5	31	56
Czech Republic	265	222	175	224	246
Estonia	37	20	1	—	8
Finland	* 0	* 0	* 0	* 87	* 9
France	22	39	49	39	18
Germany	231	376	221	178	151
Hungary	32	0	0	0	2
Ireland, Republic of	85	0	1	0	1
Lithuania	12	13	4	1	1
Luxembourg	1	1	1	52	1
Netherlands	27	33	54	10	62
Portugal	41	44	33	23	6
Romania	0	* 0	0	* 60	* 81
United Kingdom	284	176	144	203	184

#### Notes

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

## Tin

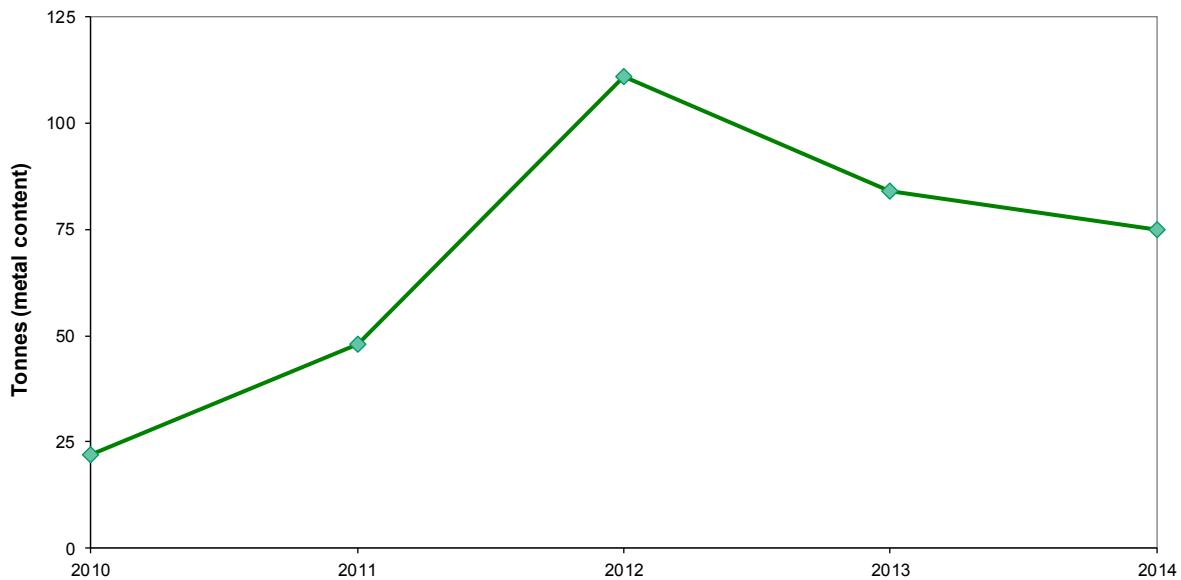
- Tin is a malleable and ductile metal that is resistant to corrosion. The chief use of tin is to coat metals that are more susceptible to corrosion, especially steel. It is also widely used as an alloying agent (i.e. with lead to make pewter) and its use in solders is rapidly growing as it replaces lead. Tin chemicals are used as fungicides and other biocides.
- China was the world's largest producer of mined tin in 2014, with 45 per cent of the total world output. The second largest was Indonesia (20 per cent), followed by Burma (also known as Myanmar; ten per cent), Peru (seven per cent) and Bolivia (six per cent).
- China was also the world's largest producer of refined tin in 2014, with 50 per cent of the total world output. The second largest was Indonesia (17 per cent), followed by Malaysia (nine per cent), Peru (seven per cent) and Thailand (five per cent).

### Mine production of tin

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Portugal	22	39	42	84	75
Spain	—	9	69	0	—

EU36 Mine production of tin 2010 - 14



### Smelter production of tin

tonnes

Country	2010	2011	2012	2013	2014
Belgium	9 946	10 008	11 350	10 346	9 718
Poland	602	82	1 375	1 900	2 253

### Exports of tin

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Unwrought (a)	60	98	103	118	112
Belgium					
Concentrates	127	95	107	114	509
Unwrought	5 114	4 261	7 428	11 881	11 217
Unwrought alloys	6 236	6 427	5 018	408	663
Scrap	207	1 195	308	2 496	2 483
					335

## Tin

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Czech Republic					
Unwrought (a)	276	18	868	1 995	976
Scrap	44	167	191	102	81
Denmark					
Unwrought	1	208	81	98	141
Scrap	35	71	69	36	147
Estonia					
Scrap	120	56	121	276	143
Finland					
Scrap	142	139	171	186	76
France					
Concentrates	341	89	74	23	42
Unwrought	423	413	485	323	526
Unwrought alloys	143	178	145	170	79
Scrap	342	532	484	616	533
Germany					
Unwrought	1 253	1 348	1 223	1 215	1 715
Unwrought alloys	956	1 459	1 352	1 442	1 554
Scrap	1 440	1 175	1 141	1 067	1 222
Hungary					
Unwrought (a)	44	43	41	62	132
Scrap	196	222	268	234	288
Ireland, Republic of					
Unwrought	(a) 689	—	—	—	—
Scrap	59	54	43	45	227
Italy					
Unwrought (a)	367	383	582	869	370
Scrap	289	243	240	266	164
Latvia					
Scrap	175	8	2	3	2
Malta					
Scrap	* 3	4	134	7	...
Netherlands					
Unwrought	4 043	3 619	5 670	6 126	7 752
Unwrought alloys	856	357	314	338	446
Scrap	544	465	363	653	563
Poland					
Unwrought (a)	408	536	533	558	686
Portugal					
Scrap	43	82	200	117	182
Romania					
Unwrought (a)	68	128	67	109	78
Slovakia					
Unwrought	(a) 8	11	688	1 968	(a) 526
Scrap	8	4	9	42	127
Spain					
Unwrought (a)	513	449	558	978	580
Scrap	376	4 543	2 436	932	817
Sweden					
Unwrought (a)	163	52	32	46	56
Scrap	27	71	34	48	110
Switzerland					
Scrap	118	131	169	102	112
United Kingdom					
Concentrates	163	58	241	86	45
Unwrought	1 856	1 797	2 092	1 726	332
Unwrought alloys	389	545	246	319	293
Scrap	13 115	4 414	3 435	1 526	636

## Notes

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

(a) Including alloys



## Imports of tin

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Unwrought (a)	2 923	3 403	3 186	3 423	3 845
Belgium					
Concentrates	200	488	253	124	220
Unwrought	1 131	847	1 365	657	1 859
Unwrought alloys	3 289	2 785	3 109	3 971	4 781
Scrap	3 560	3 551	7 001	7 843	6 461
Bulgaria					
Unwrought (a)	47	359	215	353	136
Czech Republic					
Unwrought	319	479	478	353	707
Unwrought alloys	130	172	153	882	334
Denmark					
Unwrought (a)	110	136	195	173	170
Finland					
Unwrought (a)	188	136	124	77	249
France					
Unwrought	5 787	5 252	4 815	4 693	5 729
Unwrought alloys	389	283	266	305	224
Scrap	100	61	107	57	76
Germany					
Unwrought	18 684	21 396	18 865	19 224	20 561
Unwrought alloys	316	112	196	186	163
Scrap	714	1 578	461	880	536
Greece					
Unwrought (a)	160	211	70	46	82
Hungary					
Unwrought (a)	231	156	205	253	227
Ireland, Republic of					
Unwrought (a)	157	117	22	17	24
Italy					
Unwrought	3 828	4 936	3 375	3 617	3 981
Unwrought alloys	724	303	297	244	189
Scrap	60	220	22	35	68
Lithuania					
Unwrought alloys	...	1	—	1	143
Luxembourg					
Scrap	...	3	95	105	—
Netherlands					
Unwrought	13 967	11 303	7 453	11 803	11 282
Unwrought alloys	665	505	276	389	160
Scrap	606	524	424	3 655	1 678
Poland					
Unwrought (a)	1 317	1 579	1 281	1 138	968
Scrap	1 605	2 790	3 689	4 638	4 583
Portugal					
Unwrought	317	560	435	510	503
Unwrought alloys	100	19	13	23	52
Romania					
Unwrought (a)	85	125	91	120	165
Serbia					
Unwrought	60	72	148	224	406
Slovakia					
Unwrought (a)	2 087	2 120	2 091	4 119	2 577
Slovenia					
Unwrought (a)	118	70	62	89	93
Spain					
Unwrought	6 335	5 992	5 744	5 300	6 583
Unwrought alloys	176	428	122	82	142
Scrap	2 410	5 386	801	799	1 019
Sweden					
Unwrought (a)	435	189	149	201	180
Switzerland					
Unwrought (a)	863	737	799	857	835
Turkey					
Unwrought (a)	2 558	2 707	2 195	2 420	2 581

## Tin

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
United Kingdom					
Unwrought	4 327	4 186	3 850	3 484	4 318
Unwrought alloys	365	396	1 113	4 049	5 750
Scrap	196	121	147	69	7

## Notes

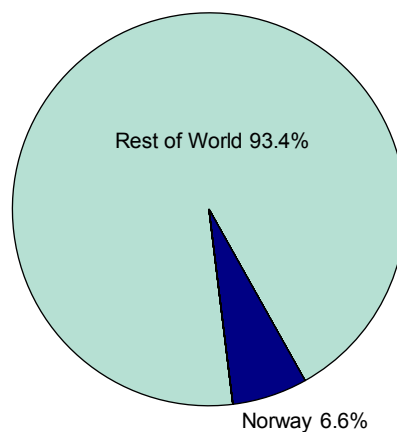
(1) In this table the term 'unwrought' tin corresponds to item 8001 of the Harmonised System and comprises ingots, pigs, unwrought bars, sticks, etc.

(a) Including alloys

## Titanium minerals

- The titanium minerals ilmenite and rutile are the main sources of titanium, 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 2014, with 19 per cent of the total world output. The second largest was Australia (14 per cent), followed by South Africa (nine per cent), China, Vietnam and Senegal (eight per cent each).

### EU36 Production of titanium minerals 2014



### Production of titanium minerals

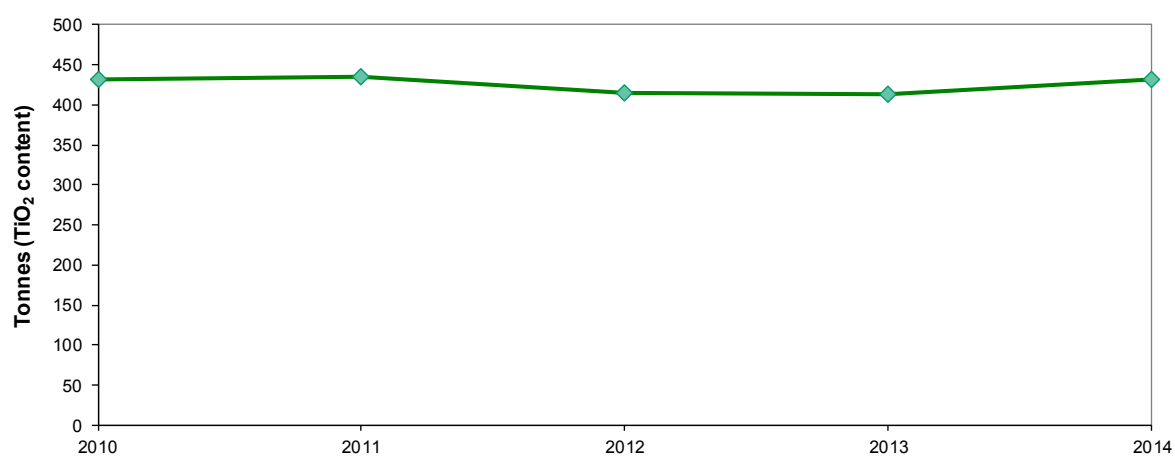
tonnes

Country	2010	2011	2012	2013	2014
Norway Ilmenite	864 000	870 000	830 614	826 126	863 660

#### Notes

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

### EU36 Production of titanium minerals 2010 - 14



**Exports of titanium**

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metal	129	224	317	159	609
Oxides	5 956	4 794	3 965	4 052	6 093
Belgium					
Titanium minerals	106 478	116 859	119 931	96 990	104 513
Metal	895	1 405	1 560	1 336	1 038
Oxides	435 415	390 405	345 752	399 734	381 857
Bulgaria					
Metal	—	849	64	114	26
Oxides	584	987	408	258	274
Croatia					
Oxides	117	172	42	519	983
Czech Republic					
Titanium minerals	2 378	504	684	758	761
Metal	358	264	384	368	725
Oxides	45 842	45 437	43 174	45 164	51 595
Denmark					
Metal	196	125	194	193	316
Oxides	820	5 792	10 732	10 385	10 131
Estonia					
Metal	26	33	23	41	58
Oxides	49	164	468	396	44
Finland					
Titanium minerals	1	0	...	171	3 017
Oxides (a)	* 88 000	* 80 000	* 66 000	* 83 000	* 78 000
France					
Metal	4 907	5 333	5 946	6 633	8 838
Oxides	129 197	140 278	114 715	127 319	111 622
Germany					
Titanium minerals	22 384	18 932	13 648	51 517	5 623
Metal	9 351	13 954	12 561	13 824	14 096
Oxides	391 981	345 661	331 757	374 970	351 825
Greece					
Oxides	773	731	744	1 079	729
Hungary					
Metal	55	37	68	48	53
Oxides	1 942	1 484	1 298	1 871	2 002
Italy					
Metal	3 248	4 789	4 531	4 756	5 315
Oxides	27 450	26 181	22 039	37 137	35 730
Latvia					
Metal	7	61	42	2	1
Lithuania					
Metal	3	3	3	6	93
Oxides	1 167	965	1 029	1 122	1 486
Luxembourg					
Metal	20	17	17	151	164
Netherlands					
Titanium minerals	101 840	69 170	57 796	3 396	2 503
Metal	4 117	9 548	10 173	8 815	5 403
Oxides	31 385	11 305	14 836	114 285	119 100
Norway					
Titanium minerals (a)	* 465 000	* 441 000	* 392 000	* 396 000	* 420 000
Metal	231	343	243	271	468
Oxides (a)	* 35 000	* 35 000	* 31 000	* 35 000	* 38 000
Poland					
Metal	76	90	47	47	459
Oxides	20 996	23 401	20 201	20 329	14 517
Portugal					
Oxides	1 091	3 422	5 322	6 733	6 934
Romania					
Metal	960	550	375	615	287
Oxides	310	498	536	433	583
Slovakia					
Metal	49	24	199	91	101

Exports continued					tonnes
Country	2010	2011	2012	2013	2014
Slovenia					
Metal	171	346	356	347	315
Oxides	61 637	53 015	47 488	58 140	56 320
Spain					
Titanium minerals	2 405	650	4 011	297	227
Metal	1 928	1 698	1 779	2 896	1 888
Oxides	35 233	48 870	51 919	85 355	81 080
Sweden					
Metal	925	1 086	1 111	981	1 453
Oxides	20 567	18 331	16 429	15 109	16 125
Switzerland					
Metal	805	868	724	887	1 038
Oxides	1 466	1 666	1 623	2 009	2 130
Turkey					
Metal	85	95	122	193	327
Oxides	2 650	3 170	2 538	2 749	2 821
United Kingdom					
Metal	12 060	11 926	11 541	11 493	11 911
Unwrought	3 683	1 263	709	1 475	1 362
Wrought	4 197	4 907	5 628	6 122	6 316
Oxides	208 518	223 190	142 135	169 548	191 395

## Notes

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

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

## Imports of titanium

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Titanium minerals	477	580	284	432	388
Metal	1 381	2 590	3 130	2 737	2 859
Oxides	28 288	32 258	21 255	20 972	26 352
Belgium					
Titanium minerals	181 688	213 276	205 930	174 657	221 108
Metal	1 743	1 582	1 160	1 454	1 444
Oxides	* 314 200	114 760	97 229	126 543	124 733
Bulgaria					
Titanium minerals	506	486	735	—	26
Metal	19	46	127	89	75
Oxides	5 675	6 454	4 593	4 897	4 885
Croatia					
Oxides	3 000	2 911	2 194	3 257	2 954
Cyprus					
Oxides	1 299	1 141	783	621	583
Czech Republic					
Titanium minerals	155 485	146 778	98 071	100 317	107 926
Metal	779	1 333	1 717	1 884	1 956
Oxides	8 857	9 372	7 763	8 863	10 398
Denmark					
Metal	674	1 723	1 948	1 036	1 255
Oxides	20 427	23 296	17 706	20 220	22 668
Estonia					
Metal	82	5	683	2 229	3 985
Oxides	1 409	1 724	1 921	1 808	1 312
Finland					
Titanium minerals	(a)* 20	(a)* 3 154	(a)* 20	39 888	(a)* 10
Metal	60	66	81	62	246
Oxides	15 571	15 533	13 638	14 391	13 669

## Titanium

Imports continued

tonnes

Country	2010	2011	2012	2013	2014
France					
Titanium minerals	50 893	67 259	184 385	91 344	161 216
Metal	7 766	10 026	11 881	13 169	16 267
Oxides	148 994	138 687	123 037	129 659	139 199
Titanium slag	15 218	246	20 762	12 707	—
Germany					
Titanium minerals	838 768	794 043	648 030	612 633	699 059
Metal	12 919	20 233	17 015	16 198	17 038
Oxides	309 500	329 073	264 304	309 892	321 016
Titanium slag	164	2 499	...	...	...
Greece					
Titanium minerals	504	396	220	275	292
Metal	74	74	47	260	141
Oxides	19 003	19 447	12 378	16 796	16 158
Hungary					
Titanium minerals	2 677	2 410	3 038	3 254	3 214
Metal	84	134	116	143	149
Oxides	8 927	8 885	7 325	8 809	9 606
Iceland					
Metal	100	59	75	80	154
Ireland, Republic of					
Metal	414	202	432	1 297	1 558
Oxides	4 922	4 312	3 924	4 044	4 207
Italy					
Titanium minerals	98 978	111 842	(a)* 4 132	55 323	102 316
Metal	4 497	9 420	7 367	6 065	6 630
Oxides	160 361	164 708	137 976	143 083	155 263
Latvia					
Oxides	739	693	640	586	699
Lithuania					
Metal	7	4	38	71	78
Oxides	1 947	2 081	2 028	2 686	2 362
Luxembourg					
Metal	456	1 842	786	1 898	1 039
Oxides	1 481	1 534	1 494	13 393	15 235
Macedonia					
Oxides	504	502	455	546	528
Malta					
Oxides	463	445	346	382	361
Netherlands					
Titanium minerals	238 199	196 960	158 679	83 675	114 468
Metal	5 330	6 094	5 709	5 902	4 678
Oxides	43 542	52 165	38 792	58 718	58 775
Norway					
Titanium minerals	45 018	25 003	...	26 238	26 780
Metal	412	723	890	671	762
Oxides	10 115	10 376	8 093	7 214	7 115
Poland					
Titanium minerals	105 384	99 055	84 143	96 894	92 439
Metal	616	2 020	329	270	377
Oxides	46 110	54 770	44 098	48 200	52 495
Portugal					
Titanium minerals	714	807	429	517	885
Metal	26	28	38	32	95
Oxides	20 486	19 813	14 788	23 016	24 277
Romania					
Titanium minerals	2 095	5 393	1 354	1 721	1 930
Metal	771	541	776	801	543
Oxides	8 733	10 571	7 511	8 996	9 451
Serbia					
Oxides	3 888	4 498	3 960	4 336	4 430
Slovakia					
Titanium minerals	0	1	2	4	6 847
Metal	956	2 271	643	778	801
Oxides	2 109	2 409	2 163	2 776	2 843

Imports continued

tonnes

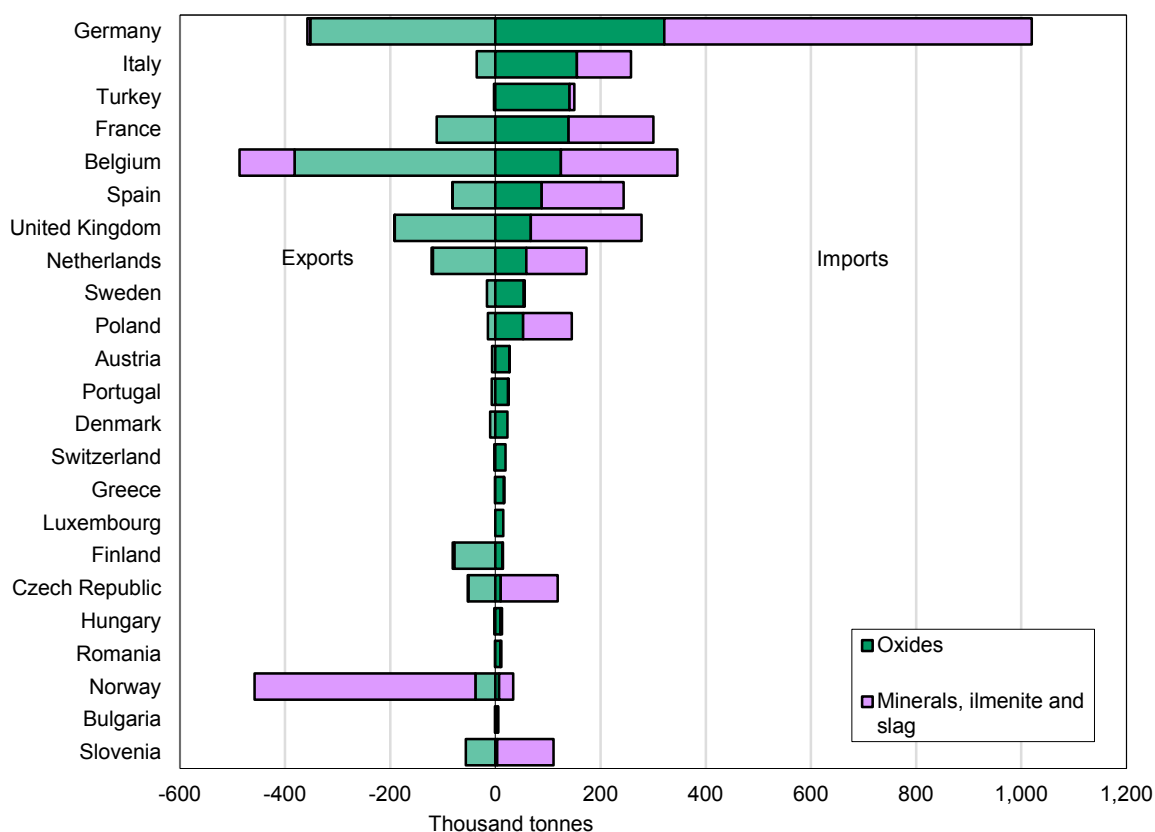
Country	2010	2011	2012	2013	2014
<b>Slovenia</b>					
Titanium minerals	25 081	54 387	20 208	19 761	48 861
Metal	400	964	739	844	694
Oxides	2 917	2 884	2 625	2 954	3 407
Titanium slag	...	39 644	57 097	54 482	58 063
<b>Spain</b>					
Titanium minerals	111 298	123 284	99 055	130 406	155 814
Metal	2 627	3 673	3 411	4 285	3 614
Oxides	91 822	90 581	67 970	79 052	88 028
<b>Sweden</b>					
Titanium minerals	1 854	645	629	661	1 569
Metal	1 936	2 390	2 245	2 072	2 323
Oxides	61 191	62 054	53 030	52 729	53 879
<b>Switzerland</b>					
Metal	971	1 081	1 177	1 207	1 463
Oxides	19 725	22 198	16 806	18 186	19 436
<b>Turkey</b>					
Titanium minerals	7 390	9 454	7 328	9 292	9 281
Metal	298	357	356	556	642
Oxides	127 266	144 383	117 269	130 866	141 078
<b>United Kingdom</b>					
Titanium minerals	90 622	32 127	117 860	104 134	210 722
Metal	20 681	69 844	33 943	27 099	30 278
Oxides	59 460	62 311	63 058	75 316	67 143

## Notes

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

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

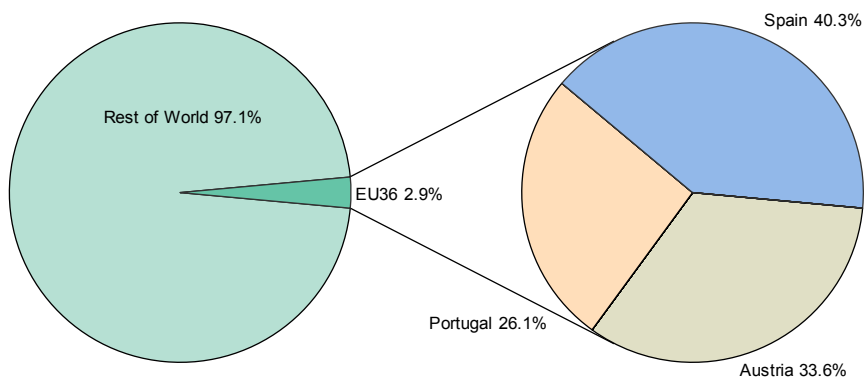
## Titanium - EU36 trade in 2014



## 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 2014, with 80 per cent of the total world output. The second largest was Russia (seven per cent), followed by Canada (three per cent), Rwanda and Bolivia (two per cent each).

**EU36 Mine production of tungsten 2014**



### Mine production of tungsten

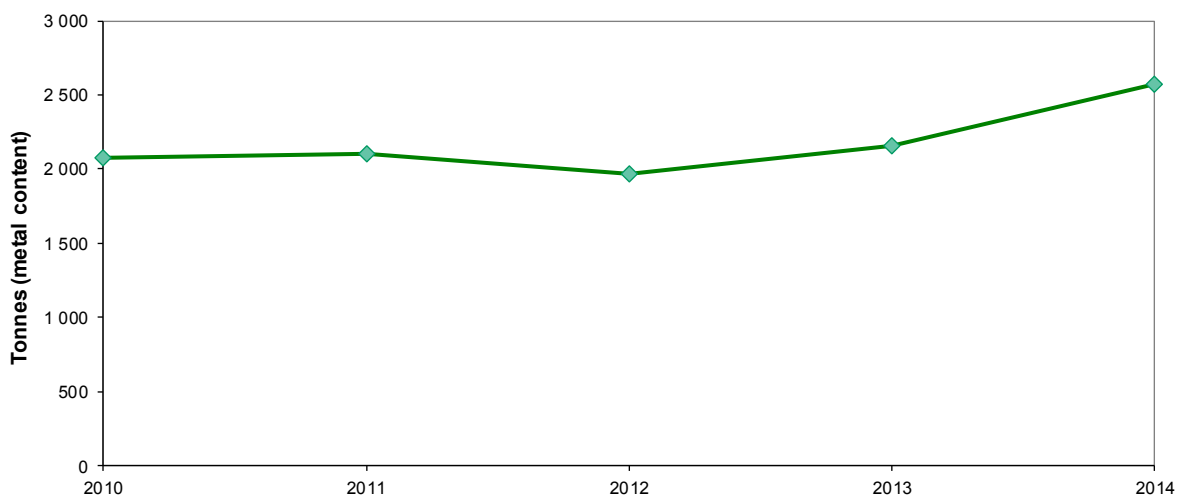
tonnes (metal content)

Country	2010	2011	2012	2013	2014
Austria	975	861	706	851	862
Portugal (a)	799	818	763	692	671
Spain	303	425	496	614	1 036
<b>EU36 total</b>	<b>2 100</b>	<b>2 100</b>	<b>2 000</b>	<b>2 200</b>	<b>2 600</b>

Notes

(a) Wolframite and scheelite

**EU36 Mine production of tungsten 2010 - 14**





## Exports of tungsten

Country	2010	2011	2012	2013	2014
Austria					
Metal (a)	* 3 000	* 2 400	* 2 200	* 1 900	* 2 000
Belgium					
Ores & concentrates	27	406	544	350	20
Metal	723	368	657	427	446
Carbide	92	92	77	82	43
Bulgaria					
Metal	80	11	12	5	11
Czech Republic					
Ores & concentrates	...	...	...	20	45
Metal	211	611	1 011	1 110	1 122
Carbide	803	903	863	949	1 174
Denmark					
Metal	113	118	32	12	58
Estonia					
Metal	1	...	61	4	—
Finland					
Metal	450	588	480	643	775
France					
Ores & concentrates	2	3	—	1 335	189
Metal	473	589	962	566	559
Carbide	288	272	353	286	208
Germany					
Ores & concentrates	164	976	524	40	192
Metal	3 119	3 064	3 618	4 823	4 234
Hungary					
Metal	54	53	99	76	68
Italy					
Ores & concentrates	...	...	0	0	62
Metal	925	1 091	1 060	687	858
Lithuania					
Ores & concentrates	...	...	...	41	...
Metal	—	178	18	17	53
Luxembourg					
Metal	203	47	0	0	3
Netherlands					
Ores & concentrates	104	0	0	63	197
Metal	406	255	119	84	123
Poland					
Ores & concentrates	...	314	...	41	—
Metal	154	179	89	348	304
Portugal					
Ores & concentrates	1 289	1 324	1 325	1 253	1 070
Metal	6	131	51	10	70
Romania					
Metal	9	23	43	5 373	1 266
Slovakia					
Metal	4	9	43	296	1
Spain					
Ores & concentrates	400	981	1 074	958	1 460
Metal	315	880	453	504	350
Sweden					
Ores & concentrates	—	21	149	105	25
Metal	289	218	122	495	197
Carbide	401	186	109	87	28
Switzerland					
Metal	476	398	400	323	448
Turkey					
Metal	139	237	210	227	220

## Tungsten

## Exports continued

tonnes

Country	2010	2011	2012	2013	2014
United Kingdom					
Ores & concentrates	29	35	102	67	558
Metal	1 650	2 135	1 674	2 448	4 580
Carbide	41	597	463	400	232

## Notes

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

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

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

## Imports of tungsten

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Metal	632	1 471	1 017	950	997
Carbide	1 268	1 241	1 076	968	1 340
Belgium					
Ores & concentrates	28	—	—	48	3
Metal	402	321	202	112	173
Carbide	31	20	22	52	30
Bulgaria					
Metal	86	16	30	21	21
Czech Republic					
Ores & concentrates	...	314	799	100	6
Metal	677	367	968	506	437
Carbide	150	219	88	198	723
Finland					
Metal	403	567	456	725	824
France					
Ores & concentrates	2	4	14 619	69 283	77
Metal	867	1 027	619	534	1 022
Carbide	359	583	551	575	603
Germany					
Ores & concentrates	1 029	843	381	119	357
Metal	7 168	8 094	6 946	6 351	6 644
Carbide	2 544	3 105	2 478	2 337	2 678
Hungary					
Metal	54	67	56	78	70
Ireland, Republic of					
Metal	91	76	121	101	141
Carbide	68	186	116	113	76
Italy					
Metal	496	552	656	482	606
Carbide	279	440	240	380	531
Lithuania					
Metal	1	156	52	25	286
Netherlands					
Ores & concentrates (a)	* 1 200	* 3 100	* 3 400	* 3 203	* 3 600
Metal	206	209	211	471	226
Poland					
Metal	124	96	69	170	160
Portugal					
Metal	277	206	151	147	70
Carbide	110	106	79	93	76
Romania					
Metal	79	50	63	45	32
Slovakia					
Metal	366	5 398	5 331	2 207	50
Slovenia					
Metal	15	16	28	42	63

## Imports continued

tonnes

Country	2010	2011	2012	2013	2014
Spain					
Ores & concentrates	44	15	17	13	4
Metal	426	216	506	596	620
Carbide	25	51	35	41	38
Sweden					
Metal	179	302	538	407	280
Carbide	1 308	2 050	852	1 088	881
Switzerland					
Metal	143	226	234	176	156
Turkey					
Metal	74	70	71	46	72
United Kingdom					
Metal	1 676	1 999	1 888	1 906	1 958
Carbide	1 111	3 622	1 245	878	1 740

## Notes

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

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

## Vanadium

- Vanadium is a soft, ductile, metallic element that is very corrosion resistant. The chief use is as an additive in alloy steels where it imparts strength and corrosion resistance. Other uses are in titanium alloys and as a catalyst.
- Mine production was confined to five countries in 2014: China (60 per cent of the total world output), Russia (22 per cent), South Africa (15 per cent), Brazil (two per cent) and Kazakhstan (one per cent). In the USA vanadium has been a significant by-product from the refining of heavy crude oils in prior years but no vanadium production was reported from this source for 2014.

### Exports of vanadium

tonnes

Country	2010	2011	2012	2013	2014
Belgium					
Pentoxide	80	* 116	65	7	3
Germany					
Metal	248	429	560	487	369
Italy					
Metal	37	1	...	...	477
Netherlands					
Pentoxide	122	186	328	492	314
Spain					
Pentoxide	22	774	26	9	102
United Kingdom					
Pentoxide	694	6	0	0	—
Metal	23	...	...	...	...

#### Notes

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

### Imports of vanadium

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Vanadiferous residues	* 46 000	* 46 000	* 46 000	* 46 000	* 46 000
Pentoxide	...	...	...	...	1 754
Belgium					
Pentoxide	123	95	364	200	26
Czech Republic					
Pentoxide	5 255	7 004	8 672	9 478	9 202
France					
Pentoxide	574	605	429	652	660
Metal	84	104	119	80	94
Germany					
Pentoxide (a)	* 1 000	* 700	* 1 300	* 1 500	* 400
Metal	61	104	68	60	50
Italy					
Pentoxide	53	45	117	231	304
Netherlands					
Pentoxide	204	888	558	1 240	3 465
Metal	21	6	...	66	333
Spain					
Pentoxide	115	52	56	57	36
United Kingdom					
Metal	197	376	261	199	168

#### Notes

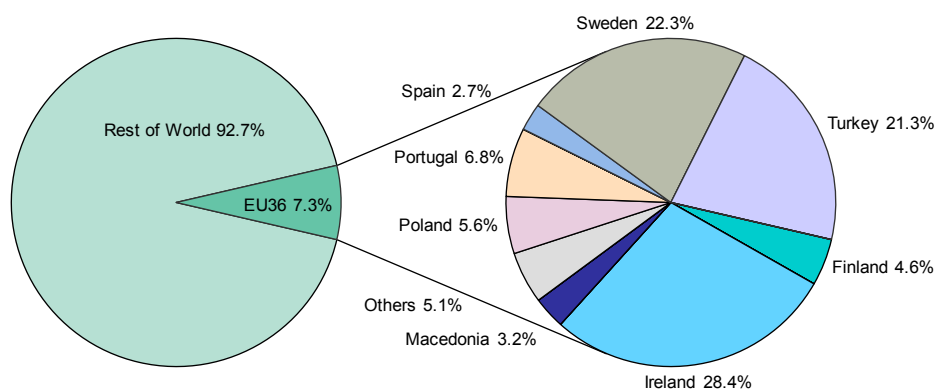
- (1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any  
(2) Metal traded in ferro-alloy form is included under iron, steel and ferro-alloys

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

## Zinc

- Zinc is a metal that is brittle at ordinary temperatures but malleable at temperatures above 100°C. It is corrosion resistant and this property is exploited in its chief use as a steel coating (galvanising). Its other main uses are as zinc die-castings and alloyed with copper to make brass, which is widely used in the electrical, engineering and construction industries.
- China was the world's largest producer of mined zinc in 2014, with 38 per cent of the total world output. The second largest was Australia (11 per cent), followed by Peru (ten per cent) and USA (six per cent).
- China was also the world's largest producer of slab zinc in 2013, with 43 per cent of the total world output. The second largest was South Korea (seven per cent), followed by India and Canada (five per cent each).

**EU36 Mine production of zinc 2014**



## Mine production of zinc

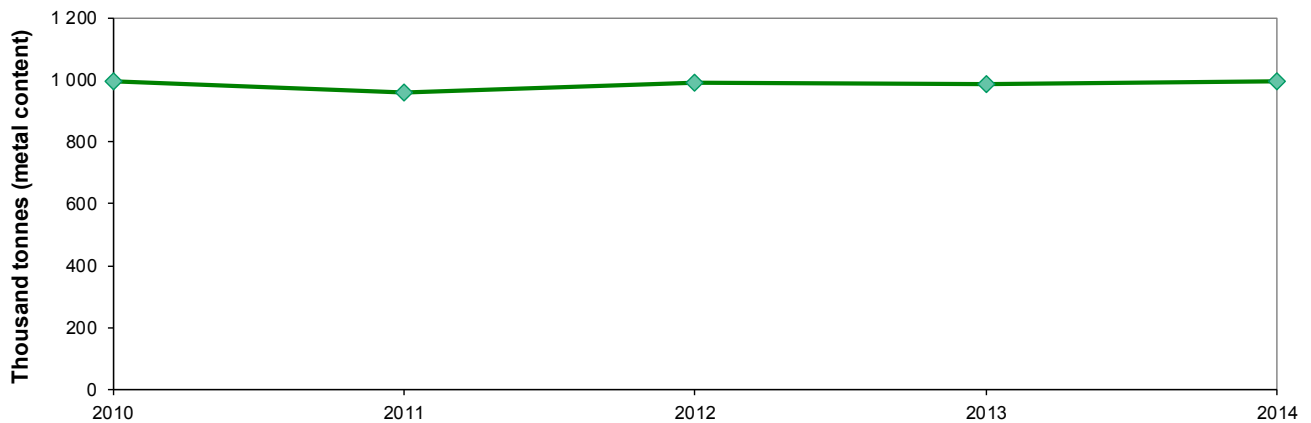
tonnes (metal content)

Country	2010	2011	2012	2013	2014
Bulgaria (a)	9 904	10 977	12 116	13 902	11 900
Finland	55 562	64 115	52 200	41 124	46 100
Greece	18 400	21 200	20 800	22 549	23 085
Ireland, Republic of	342 500	344 000	337 500	326 700	282 600
Macedonia	32 872	28 132	28 037	30 907	31 570
Montenegro	* 250	* 3 300	4 677	5 487	5 505
Poland	107 700	87 200	76 700	75 900	56 000
Portugal	6 422	4 227	30 006	53 382	67 378
Romania	* 7 700	* 8 800	* 8 400	* 2 000	* 3 300
Serbia	2 600	3 100	6 000	5 800	7 100
Slovakia	82	103	134	190	176
Spain	17 323	33 197	28 634	30 428	26 756
Sweden	198 687	194 021	188 325	176 582	221 841
Turkey	195 500	158 057	195 793	195 025	210 152
<b>EU36 total</b>	<b>996 000</b>	<b>960 000</b>	<b>989 000</b>	<b>980 000</b>	<b>993 000</b>

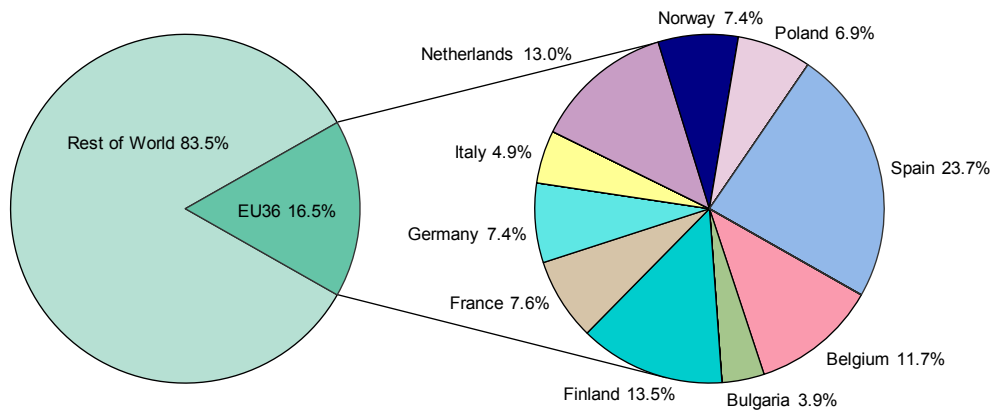
### Notes

(a) Metal content of ore

**EU36 Mine production of zinc 2010 - 14**



**EU36 Production of slab zinc 2014**



**Production of slab zinc**

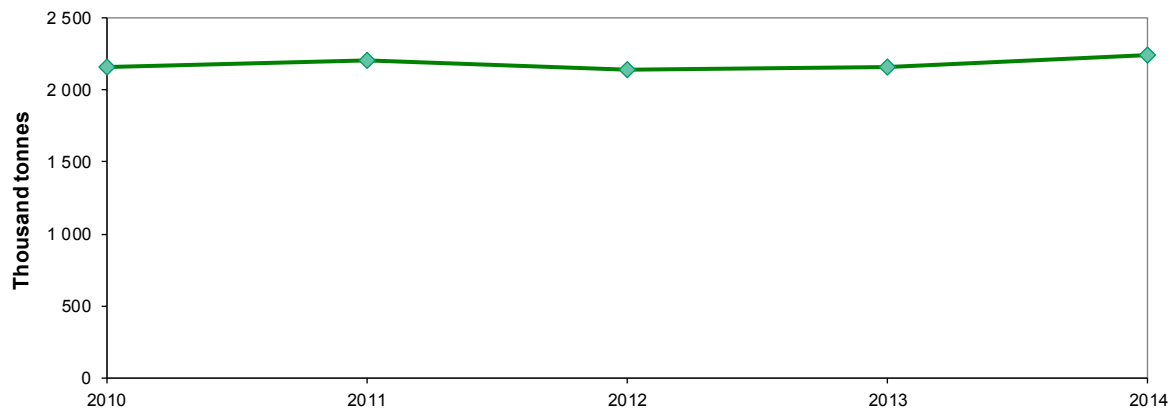
tonnes

Country	2010	2011	2012	2013	2014
Belgium (a)	260 000	282 000	250 000	252 000	262 000
Bulgaria	93 800	88 400	73 100	* 72 000	87 800
Finland	307 144	307 352	314 742	311 686	302 000
France	163 000	164 000	161 000	152 000	171 000
Germany	165 000	170 000	169 000	162 000	165 000
Italy	104 700	110 200	97 200	111 000	110 100
Netherlands	264 000	261 000	257 000	275 000	290 000
Norway	148 862	153 200	152 647	143 444	165 600
Poland	135 100	144 100	138 300	146 300	154 000
Spain	517 100	527 100	528 300	* 530 000	* 530 000
<b>EU36 total</b>	<b>2 159 000</b>	<b>2 207 000</b>	<b>2 141 000</b>	<b>2 155 000</b>	<b>2 238 000</b>

Notes

(a) Years ended 31 March following that stated

## EU36 Production of slab zinc 2010 - 14



## Exports of zinc

tonnes

Country	2010	2011	2012	2013	2014
<b>Austria</b>					
Unwrought (a)	8 532	9 776	6 410	11 065	10 933
Scrap	5 757	8 583	8 591	10 440	10 077
<b>Belgium</b>					
Ores & concentrates	749 582	725 335	859 086	773 334	840 967
Unwrought	155 654	296 197	277 418	244 589	252 548
Unwrought alloys	...	154 258	140 766	155 488	183 718
Scrap	14 540	11 652	15 063	13 333	15 985
<b>Bulgaria</b>					
Unwrought (a)	81 332	71 894	57 768	54 272	60 880
Scrap	1 949	2 021	2 185	1 353	1 382
<b>Croatia</b>					
Scrap	518	676	764	833	1 023
<b>Czech Republic</b>					
Unwrought (a)	5 148	5 147	7 407	13 112	61 347
Scrap	4 798	4 189	4 432	3 364	3 276
<b>Denmark</b>					
Unwrought (a)	318	635	789	1 060	727
Scrap	2 563	2 468	2 617	2 271	2 565
<b>Finland</b>					
Ores & concentrates	22 479	50 656	39 555	29 613	15 395
Unwrought (a)	266 738	265 686	271 313	272 632	263 422
Scrap	1 369	1 215	1 066	935	808
<b>France</b>					
Ores & concentrates	49 652	54 609	62 111	97 317	81 569
Unwrought	79 727	105 934	80 747	73 557	119 045
Unwrought alloys	1 851	2 549	1 938	2 333	2 235
Scrap	51 755	42 736	42 231	47 478	118 445
<b>Germany</b>					
Ores & concentrates	1 674	73 980	39 533	96 369	98 065
Unwrought	52 483	55 518	59 913	54 476	69 430
Unwrought alloys	31 857	31 170	29 775	27 985	24 342
Scrap	74 208	75 168	73 200	52 974	53 244
<b>Greece</b>					
Ores & concentrates	14 660	36 016	51 007	41 940	36 764
<b>Hungary</b>					
Unwrought (a)	405	527	264	148	1 750
Scrap	2 821	2 314	1 897	1 755	2 169
<b>Ireland, Republic of</b>					
Ores & concentrates	588 143	660 259	647 444	615 916	531 029
<b>Italy</b>					
Ores & concentrates	98 211	71 471	84 569	89 580	68 508
Unwrought	11 071	16 570	14 737	8 016	11 199
Unwrought alloys	6 377	9 385	10 029	8 415	7 417
Scrap	16 427	13 006	7 151	7 019	10 416

## Zinc

Exports continued

tonnes

Country	2010	2011	2012	2013	2014
Latvia					
Scrap	587	459	779	821	838
Lithuania					
Unwrought	...	330	618	432	1 283
Luxembourg					
Scrap	1 134	739	698	690	790
Macedonia					
Ores & concentrates	60 369	51 545	51 154	56 810	57 218
Scrap	739	313	103	144	230
Montenegro					
Ores & concentrates	499	6 579	9 120	9 283	14 340
Netherlands					
Ores & concentrates	12 182	132 344	90 253	91 030	79 600
Unwrought	166 281	122 532	213 479	272 732	190 548
Unwrought alloys	42 182	52 382	39 626	48 484	68 830
Scrap	32 543	25 629	28 277	26 682	31 910
Norway					
Unwrought	122 649	119 770	115 789	109 485	125 164
Unwrought alloys	19 889	29 094	28 188	30 614	33 315
Poland					
Ores & concentrates	4 213	0	0	3	2
Unwrought	96 142	105 552	105 929	128 521	181 437
Unwrought alloys	6 280	6 939	6 541	9 137	13 607
Scrap	902	960	533	570	1 570
Portugal					
Ores & concentrates	7 438	2 201	67 881	112 125	150 223
Unwrought (a)	151	734	1 723	492	320
Scrap	940	755	5 736	1 745	2 072
Romania					
Ores & concentrates	15 375	17 592	16 745	4 080	6 647
Scrap	711	597	672	592	885
Serbia					
Ores & concentrates	14 921	23 247	22 559	25 416	24 149
Scrap	120	67	907	834	652
Slovakia					
Unwrought	7 903	2 836	3 421	2 385	8 410
Unwrought alloys	13 075	7 001	10 336	10 472	13 722
Slovenia					
Unwrought (a)	2 725	918	367	604	1 477
Scrap	933	832	1 104	1 173	1 656
Spain					
Ores & concentrates	104 276	122 372	133 163	92 125	71 193
Unwrought	318 527	351 378	359 605	303 548	291 072
Unwrought alloys	91 054	35 318	38 229	42 674	56 974
Scrap	37 362	15 625	8 283	17 625	8 669
Sweden					
Ores & concentrates	362 085	374 501	343 725	333 534	411 944
Scrap	2 900	3 257	3 166	2 877	2 143
Switzerland					
Scrap	2 582	2 846	2 284	1 889	2 222
Turkey					
Ores & concentrates	392 725	316 714	412 744	399 384	422 982
Unwrought (a)	666	1 704	2 130	2 443	2 490
Scrap	1 536	2 997	2 960	1 903	1 469
United Kingdom					
Ores & concentrates	8 405	9 714	5 561	4 720	7 515
Unwrought	3 580	2 724	1 823	2 138	2 930
Unwrought alloys	14 561	12 737	13 580	11 251	17 173
Scrap	14 903	12 545	9 897	4 375	4 736

## Notes

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

(a) Including alloys



## Imports of zinc

tonnes

Country	2010	2011	2012	2013	2014
Austria					
Unwrought	37 560	47 394	51 634	72 381	69 138
Unwrought alloys	34 411	38 759	34 920	33 182	33 553
Scrap	298	4 827	9 832	9 204	12 481
Belgium					
Ores & concentrates	1 129 207	1 182 797	1 194 208	1 132 719	1 157 770
Unwrought	189 980	280 492	267 917	214 491	375 977
Unwrought alloys	10 613	11 844	30 383	40 924	26 113
Scrap	68 233	66 665	57 765	52 498	51 133
Bulgaria					
Ores & concentrates	167 107	166 553	132 500	127 158	129 405
Unwrought (a)	1 761	2 765	6 878	2 765	8 846
Croatia					
Unwrought (a)	3 029	2 886	2 847	3 024	3 395
Czech Republic					
Unwrought	15 121	17 137	19 064	21 687	65 712
Unwrought alloys	11 653	10 590	11 947	8 524	8 852
Scrap	900	909	583	177	161
Denmark					
Unwrought	4 427	6 023	6 877	6 968	6 605
Unwrought alloys	1 310	954	923	1 343	1 239
Estonia					
Unwrought (a)	5 978	8 887	4 987	664	705
Finland					
Ores & concentrates	559 918	547 265	558 963	611 240	557 413
Unwrought (a)	4 374	1 471	1 146	1 565	1 750
France					
Ores & concentrates	222 580	234 060	288 110	306 850	320 668
Unwrought	131 993	151 988	126 771	120 553	119 879
Unwrought alloys	34 205	34 022	32 075	34 823	37 710
Scrap	3 003	3 853	23 591	58 552	53 540
Germany					
Ores & concentrates	285 331	344 106	324 954	292 037	364 990
Unwrought	380 807	398 086	365 788	371 332	378 951
Unwrought alloys	57 563	69 972	64 642	64 278	76 188
Scrap	23 694	25 853	25 536	20 363	23 291
Greece					
Unwrought	20 735	9 706	9 762	8 833	6 619
Unwrought alloys	1 799	1 652	1 579	1 062	1 025
Hungary					
Unwrought	8 806	9 478	9 838	8 660	10 895
Unwrought alloys	2 961	3 340	3 018	3 479	4 579
Ireland, Republic of					
Unwrought (a)	2 104	2 358	2 058	2 481	2 579
Italy					
Ores & concentrates	184 192	153 982	186 715	140 909	183 989
Unwrought	245 254	244 557	164 716	142 457	143 426
Unwrought alloys	34 595	39 554	31 434	48 303	49 733
Scrap	27 740	36 491	36 134	39 614	50 413
Latvia					
Unwrought (a)	383	249	662	402	3 637
Lithuania					
Unwrought (a)	460	1 049	1 063	684	1 830
Luxembourg					
Unwrought	9 232	6 819	7 461	7 080	5 664
Macedonia					
Unwrought (a)	5 213	4 920	4 611	4 075	4 664
Netherlands					
Ores & concentrates	391 050	355 644	445 698	474 857	640 235
Unwrought	254 953	227 277	221 680	191 576	165 072
Unwrought alloys	19 827	13 356	8 029	24 859	12 532
Scrap	12 653	9 283	6 759	7 301	8 417
Norway					
Ores & concentrates	228 828	250 537	260 442	237 170	261 048
Unwrought (a)	1 376	1 013	2 313	205	279

## Zinc

Imports continued

tonnes

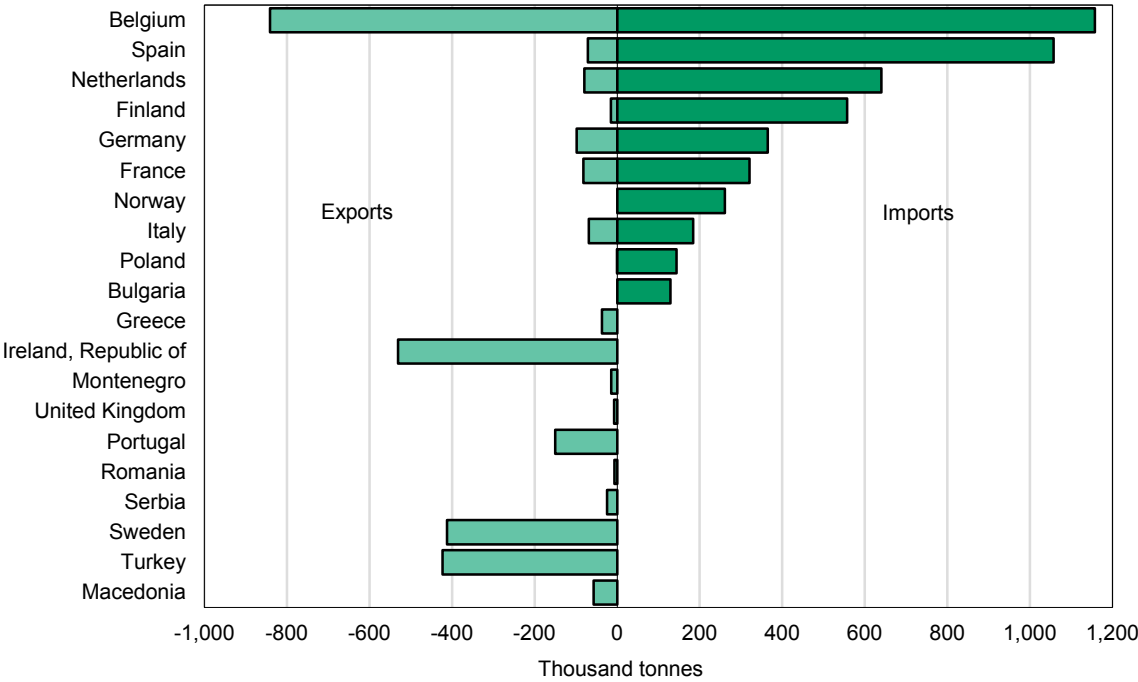
Country	2010	2011	2012	2013	2014
Poland					
Ores & concentrates	115 561	97 225	178 780	157 232	143 744
Unwrought	53 983	49 569	47 314	48 736	41 524
Unwrought alloys	7 610	10 045	11 622	11 593	9 799
Scrap	7 188	10 421	11 060	14 251	15 464
Portugal					
Unwrought	15 757	13 299	11 135	10 471	8 692
Unwrought alloys	4 522	3 967	4 601	6 084	6 585
Romania					
Unwrought (a)	16 664	17 006	16 883	18 691	18 128
Scrap	246	439	1 628	1 101	1 046
Serbia					
Unwrought	4 846	5 275	5 344	6 418	5 932
Slovakia					
Unwrought (a)	37 266	34 536	27 313	36 191	50 943
Slovenia					
Unwrought	15 314	14 495	12 916	12 984	14 284
Unwrought alloys	5 850	7 374	6 623	8 457	9 576
Scrap	313	299	279	384	968
Spain					
Ores & concentrates	958 485	977 695	1 069 671	994 451	1 057 670
Unwrought	7 583	16 841	6 091	4 623	12 274
Unwrought alloys	15 388	11 025	7 235	7 156	8 081
Scrap	10 935	23 205	9 620	38 266	41 625
Sweden					
Unwrought	37 524	30 598	24 686	23 619	25 827
Unwrought alloys	5 905	6 282	5 907	6 536	6 910
Switzerland					
Unwrought	15 521	12 747	11 702	11 554	10 560
Unwrought alloys	2 276	2 158	1 930	1 648	2 080
Turkey					
Unwrought	182 598	201 409	224 683	234 744	237 999
Unwrought alloys	2 876	6 504	5 261	10 059	13 969
United Kingdom					
Unwrought	97 066	85 516	77 847	98 448	113 410
Unwrought alloys	2 973	9 306	8 917	8 469	5 177
Scrap	447	339	412	533	1 412

## Notes

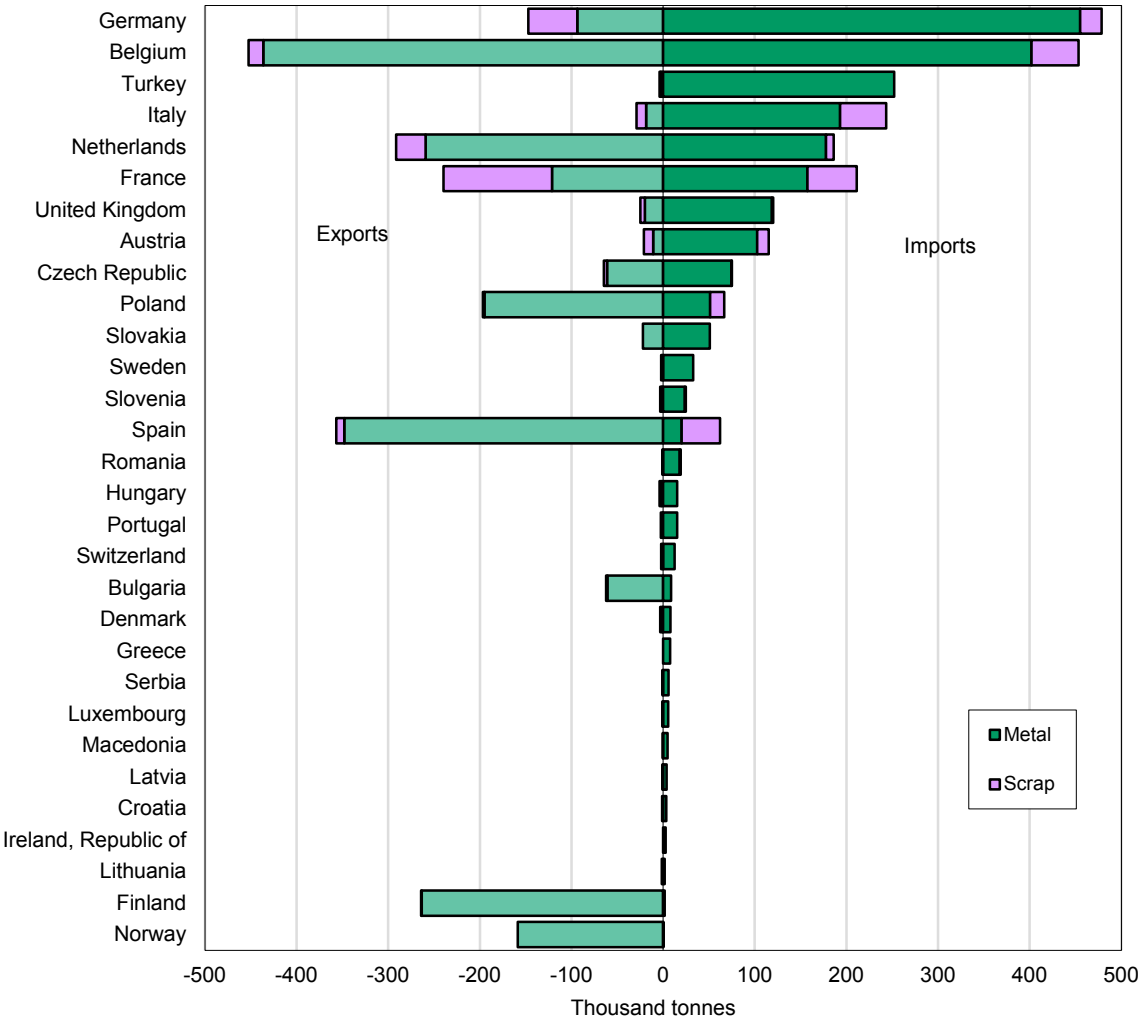
(1) In this table the term 'unwrought' zinc corresponds to item 7901 of the Harmonised System and comprises blocks, pigs, slabs, etc.

(a) Including alloys

Zinc ore - EU36 trade in 2014



Zinc - EU36 trade in 2014



## 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 estimated to be the world's largest producer in 2014, with approximately 34 per cent of the total world output. The second largest was South Africa (33 per cent), followed by USA (ten per cent) and Mozambique (four per cent).

### Exports of zirconium

Country	2010	2011	2012	2013	2014
Belgium					
Concentrates	17 417	12 021	13 246	17 228	9 173
Metal	187	272	186	197	274
France					
Concentrates	2 044	4 973	1 708	1 955	2 569
Germany					
Concentrates (a)	* 10 800	* 10 800	* 7 500	* 6 300	* 5 700
Metal	384	792	735	896	853
Italy					
Concentrates	41 784	44 252	11 012	2 832	3 500
Metal	136	34	137	27	17
Netherlands					
Concentrates	11 091	13 351	9 959	9 514	11 493
Metal	110	108	147	75	32
Spain					
Concentrates	122 372	29 952	14 360	8 031	10 191
Metal	51	3	64	73	50
United Kingdom					
Concentrates	1 405	1 661	818	1 037	1 261
Metal	90	102	213	66	60

#### Notes

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

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

### Imports of zirconium

Country	2010	2011	2012	2013	2014
Austria					
Concentrates	1 680	1 994	1 344	1 193	1 132
Belgium					
Concentrates	17 469	12 317	12 682	17 652	10 321
Metal	370	480	309	382	306
Bulgaria					
Concentrates	781	609	95	231	172
Czech Republic					
Concentrates	303	955	595	682	767
Metal	37	34	24	46	187
France					
Concentrates	25 310	35 922	25 784	26 688	17 834
Metal	326	687	436	363	3 863
Germany					
Metal	798	676	956	983	867
Hungary					
Concentrates	2 455	1 765	1 965	1 444	1 209
Ireland, Republic of					
Concentrates	16 162	886	146	268	231

Imports continued

tonnes

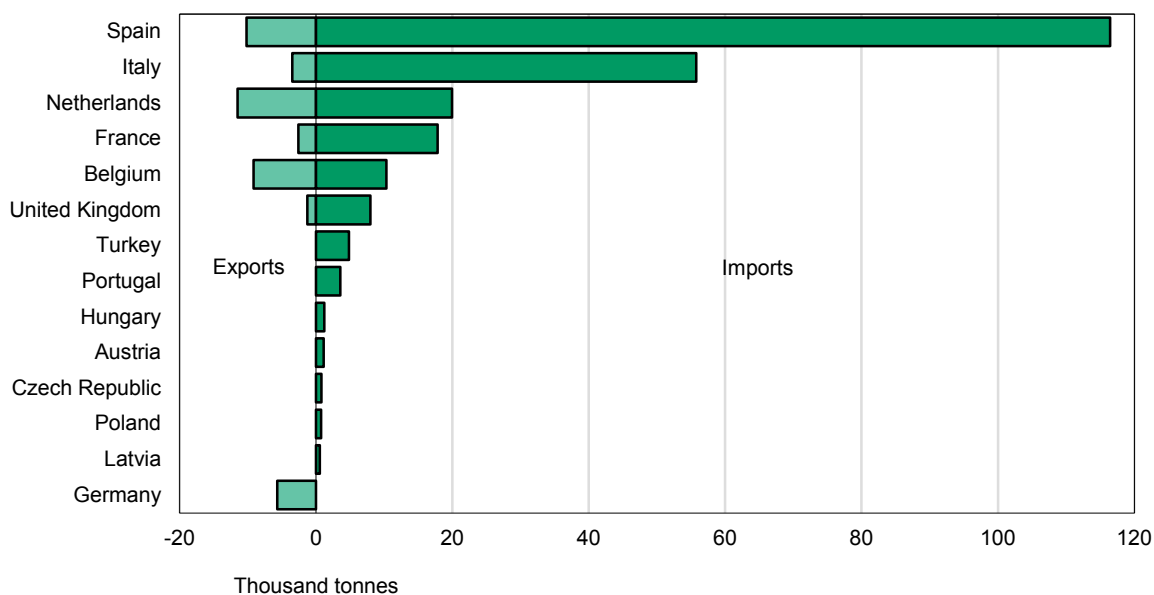
Country	2010	2011	2012	2013	2014
Italy					
Concentrates	98 214	81 360	40 897	56 430	55 743
Metal	144	184	135	141	80
Latvia					
Concentrates	...	...	165	352	540
Netherlands					
Concentrates	23 981	43 560	17 070	6 651	19 942
Metal	188	297	211	152	206
Poland					
Concentrates	648	488	670	735	759
Portugal					
Concentrates	5 475	4 048	2 386	2 574	3 555
Romania					
Metal	35	41	1	46	106
Spain					
Concentrates	149 442	143 493	63 341	99 858	116 434
Metal	132	97	124	136	136
Sweden					
Metal	220	120	146	119	121
Turkey					
Concentrates	4 823	4 770	3 268	4 130	4 808
United Kingdom					
Concentrates (a)	8 450	14 709	8 928	6 879	7 974
Metal	411	616	482	513	391

## Notes

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

(a) Mainly zircon.

## Zirconium concentrates - EU36 trade in 2014



## 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 2014, with 32 per cent of the total world output. The second largest was USA (24 per cent), followed by Argentina (14 per cent) and Chile (11 per cent).

### Production of borates

tonnes

Country	2010	2011	2012	2013	2014
Turkey	2 504 249	2 729 849	1 814 725	1 748 231	* 1 750 000

## 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 2014, followed by Canada and Norway.

### Production of nepheline syenite

tonnes

Country	2010	2011	2012	2013	2014
Norway	327 000	330 000	320 000	320 000	331 000

## 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.
- Turkey and Iran were estimated to be the joint largest producers in the world in 2014, with approximately 23 per cent of the total world output each. The next largest were Greece (20 per cent), China (14 per cent) and USA (nine per cent).

### Production of perlite

tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	—	—	3 700	—	* —
Greece	790 000	800 000	870 000	890 000	985 000
Hungary	70 990	70 900	72 364	64 944	* 65 000
Italy	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Slovakia	23 000	23 000	24 000	16 000	17 000
Turkey	545 585	702 673	887 600	1 075 949	* 1 100 000
EU36 total	1 490 000	1 660 000	1 920 000	2 110 000	2 230 000

## Rhenium

- Rhenium is a silvery-white, heavy metal used in refractories due to its high melting point. Typical uses include nickel-based superalloys for the combustion chambers, turbine blades and exhaust nozzels of jet engines. It is also used in catalysts.
- Rhenium is mainly produced as a by-product of molybdenum or copper. Worldwide production is limited to seven countries, of which Chile is the largest producer.

### Production of rhenium

tonnes

Country	2010	2011	2012	2013	2014
Poland	3	3	3	5	* 5

## 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 2014, with 28 per cent of the total world output. The second largest was Germany (25 per cent), followed by Russia (eight per cent), Belgium (seven per cent) and Canada (six per cent).

### Production of selenium metal

tonnes

Country	2010	2011	2012	2013	2014
Belgium	* 200	* 200	* 200	* 200	* 200
Finland	73	86	93	72	94
Germany (a)	* 650	* 700	* 650	* 700	* 700
Poland	79	85	90	80	90
Serbia	11	13	13	16	* 16
Sweden	72	70	70	100	* 100

#### Notes

(a) Includes selenium produced from imported material

## Natural sodium carbonate

- Natural sodium carbonate (also known as soda ash) is an important compound in the chemical industry. Natural sodium carbonate is produced from processing minerals such as trona or nahcolite, or from brines, but soda ash can also be produced synthetically. It is used in glass making, for soaps and detergents, during the removal of sulphur in gaseous emissions and in the production of paper.
- The USA was the world's largest producer in 2014, followed by Turkey, Kenya, Botswana and Ethiopia.

### Production of natural sodium carbonate

tonnes

Country	2010	2011	2012	2013	2014
Turkey	1 623 192	1 749 068	1 852 817	1 665 077	* 1 650 000

## 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 2014, with 76 per cent of the total world output. The second largest was Spain (14 per cent), followed by Mexico (seven per cent).

### Production of strontium minerals

tonnes

Country	2010	2011	2012	2013	2014
Spain	83 035	97 102	96 888	90 972	128 077

#### Notes

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

## Tellurium

- Tellurium is a brittle, mildly toxic, silvery-white metalloid which is used primarily in steel or copper alloys to improve machinability. It is also used in semi-conductors and solar panels.
- Tellurium is mainly produced as a by-product of copper refining and worldwide production of limited to five countries, of which the USA is the largest producer, followed by Japan and Sweden.

### Production of tellurium metal

tonnes

Country	2010	2011	2012	2013	2014
Sweden	—	—	7	24	31

#### Notes

(1) In addition to the countries listed, Germany is believed to produce tellurium metal

## 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 2014, with 41 per cent of the total world output. The second largest was Canada (16 per cent), followed by Australia (9 per cent) and Niger (seven per cent).

### Mine production of uranium

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Czech Republic	259	252	222	232	165
Germany	* 8	52	50	27	33
Romania	* 77	* 77	* 90	* 80	* 77

#### Notes

(1) Excluding uranium production from decommissioning operations



## Vermiculite

- Vermiculite is a silicate mineral that undergoes significant exfoliation, and therefore expansion, when heated. It is used in agriculture and horticulture, in lightweight construction aggregates, for insulation (due to its low thermal conductivity, sound proofing properties and fire resistance) and in other minor uses such as some automotive brake linings.
- South Africa was the world's largest producer in 2014, followed by the USA, Brazil, China and Russia.

### Production of vermiculite

tonnes

Country	2010	2011	2012	2013	2014
Bulgaria	* 3 000	* 15 000	* 18 600	* 18 600	* 18 600

## 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 2014, with 69 per cent of the total world output. The second largest was India (17 per cent), followed by USA (six per cent) and Mexico (five per cent).

### Production of wollastonite

tonnes

Country	2010	2011	2012	2013	2014
Finland	12 100	11 500	* 11 500	* 11 500	* 11 500
Spain	6 000	7 417	10 918	16 738	15 298

#### Notes

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



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