

# World Mining Data 2020

Iron and Ferro-Alloy Metals  
Non-Ferrous Metals  
Precious Metals  
Industrial Minerals  
Mineral Fuels



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Volume 35

C. Reichl, M. Schatz

Minerals Production

Vienna, 2020

## Preface



Elisabeth Köstinger  
Federal Minister

Raw materials are the lifeblood of the economy. The sufficient supply of mineral raw materials under fair market conditions is an essential basis for a sustainable and well-functioning economy. Although the geological availability of minerals is relatively high, disorders caused by geopolitical, economic or pandemic circumstances can lead to a shortfall of mineral resources. The worldwide spread of the coronavirus pandemic is currently changing our working and living habits at local, national and global level. This crisis relentlessly demonstrates our vulnerability in a globalized world with complex dependencies and widely ramified value chains. It reveals questions about security of supply for products that form the basis of our lives, as well as for basic materials that are urgently needed as starting materials for products that are often vital and even life-saving. Key technologies designed to secure our future viability and to contribute to solving the grand challenges in the fields of climate and energy, health, nutrition, mobility, digitalisation, security and communication can only be implemented successfully under the premise of a sufficient supply of mineral raw materials. In order to enhance the competitiveness and sustainability of industry, the focus on innovative solutions along the entire value chain is important. Circular Economy will help to secure the sustainable supply of affordable resources in the long term. Disruptive events - like in these days - show the importance of domestic production and an increasing demand for national independency from cradle to grave.

Fact-based knowledge of mineral production, market concentrations and production trends are the basis of foresighted policy and decision-making. This can help to identify potential short or medium-term supply risks. I am delighted that the annual publication "World Mining Data" has served for 35 years as a valuable basis for renowned national and international institutions, contributing to commodity forecasts. In this way, the Austrian Federal Ministry of Agriculture, Regions and Tourism provides an important contribution to international resource policy.

I would like to express my sincere gratitude to Austrian representations abroad as well as to international institutions for their support and active participation regarding this publication.

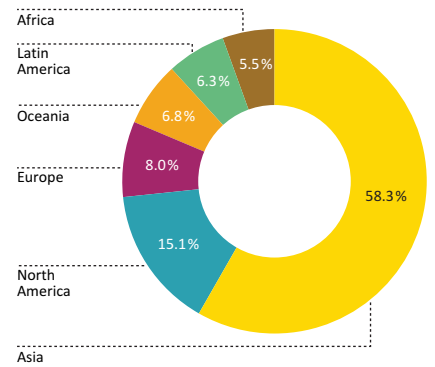
"Glück auf!" ("Good luck")

Elisabeth Köstinger  
Federal Minister of Agriculture, Regions and Tourism

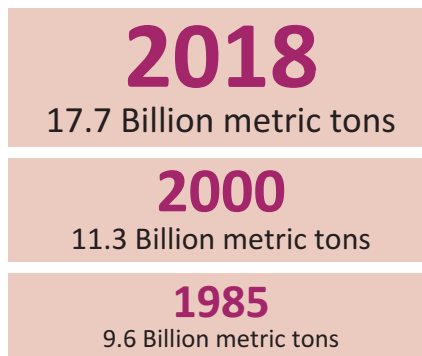
# Minerals – Lifeblood of the economy

Major current  
developments  
in global mining  
production based on  
World Mining Data  
2020

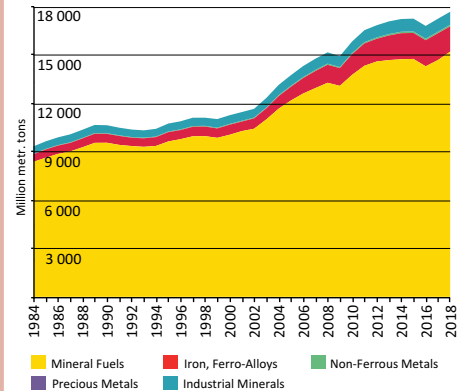
**Total production 2018  
by continents**



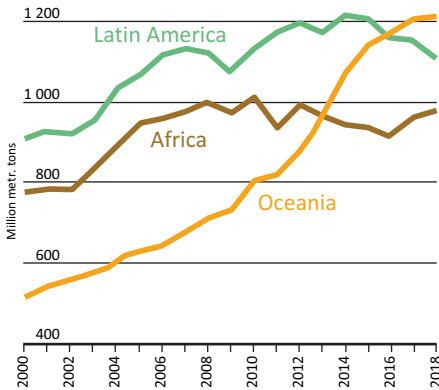
**World mining production**



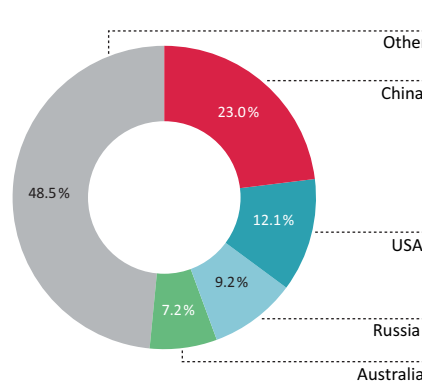
**Total mining production 1984–2018**



**Minerals production: Oceania passed Africa in 2013 and Latin America in 2018**



**China, USA, Russia and Australia are the 4 biggest mining nations**



**Key commodity Iron Ore**

Ratio of Iron Ore to all other  
Ferro-Alloy Metals

**97.1% to 2.9%**

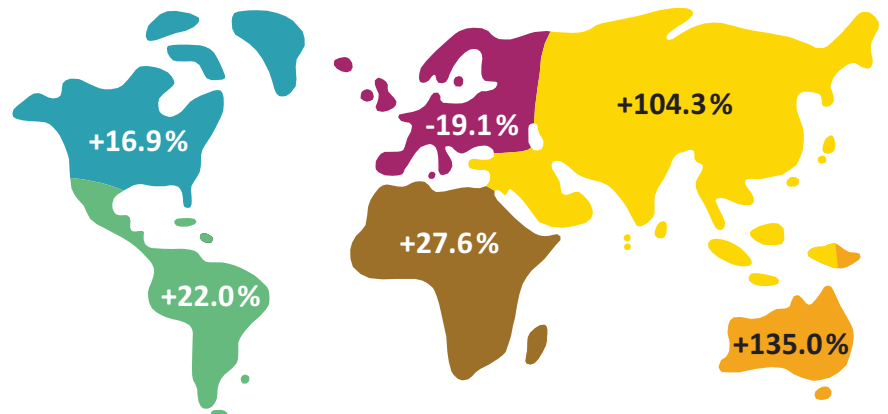
Growth rate of total Iron Ore production  
2000/2018 (2017/2018)

**151.5% (-6.5%)**

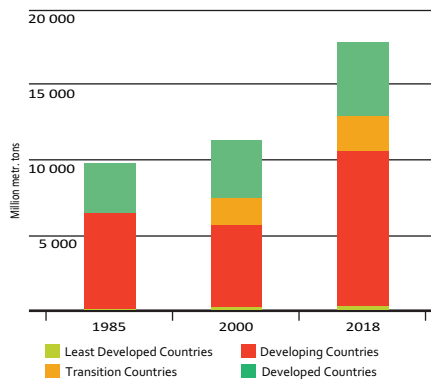
**China is world's largest producer  
of 32 different commodities:**

- **4 Iron and Ferro-Alloy Metals:** Mo, Ti, W, V
- **14 Non-Ferrous Metals:** Al, Sb, As, Bi, Cd, Ga, Ge, In, Pb, Hg, REE, Te, Sn, Zn
- **1 Precious Metal:** Au
- **11 Industrial Minerals:** Baryte, Bentonite, Fluorspar, Graphite, Gypsum, Kaolin, Magnesite, Phosphates, Salt, Sulfur, Talc
- **2 Mineral Fuels:** Steam Coal, Coking Coal

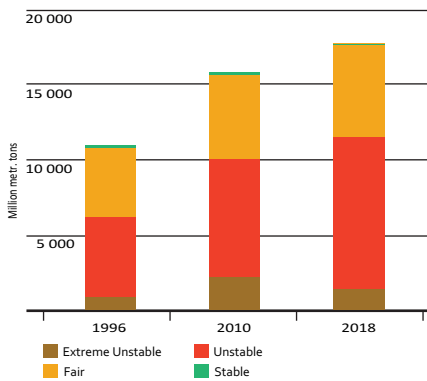
**Declining production rates since 2000 only in Europe – Δ 2000 / 2018**



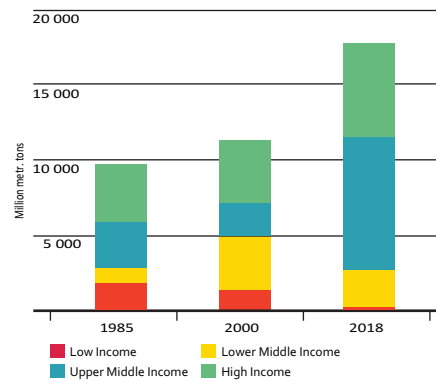
### Development status of producer countries



### Political stability of producer countries



### Per capita income in USD – Mineral production contributes to wealth



### Non-Ferrous Metals

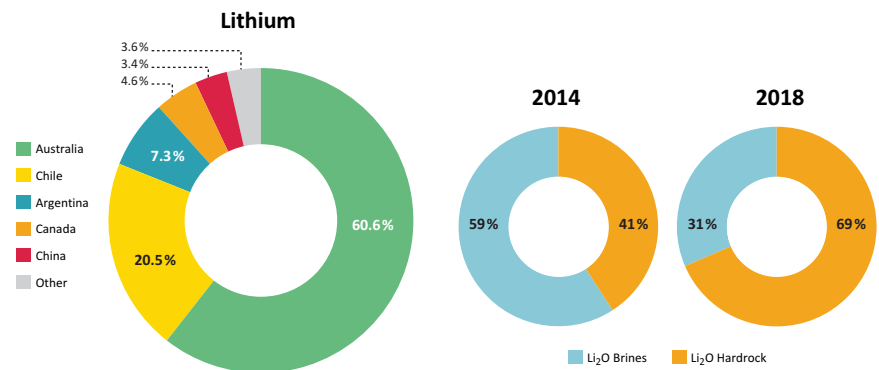
Ratio of 4 base metals Al, Cu, Zn, Pb to all other Non-Ferrous Metals

**99.1% to 0.9%**

Growth rate of total Non-Ferrous Metals production 2000/2018 (2017/2018)

**103.8% (+2.7%)**

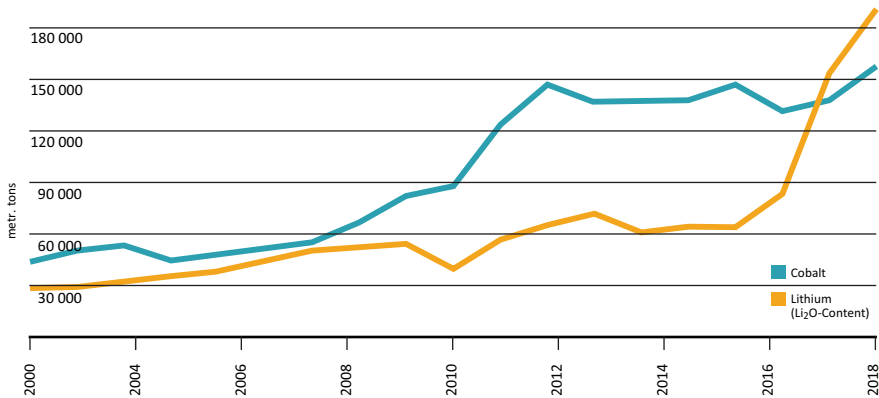
### Key commodities for battery technology: Lithium, Cobalt, Manganese, Graphite



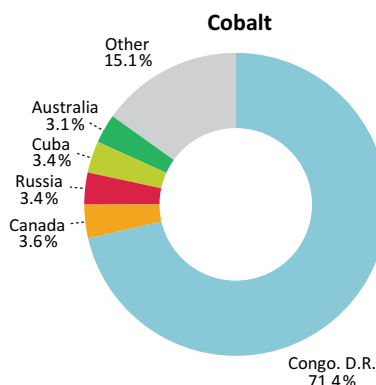
### Big changes

Commodity	Δ 2000/2018
Lithium	596.4%
Gallium	521.2%
Cobalt	265.2%
Arsenic	-7.5%
Phosphates	-22.8%
Tantalum	-40.4%

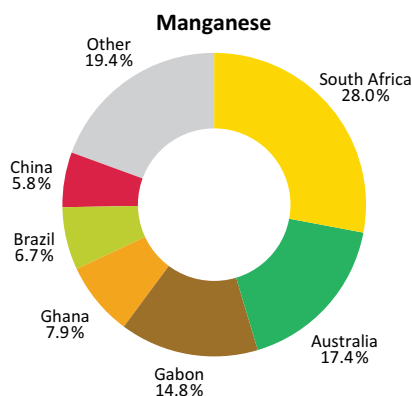
### Strong increase in Lithium and Cobalt production in the last 10 years



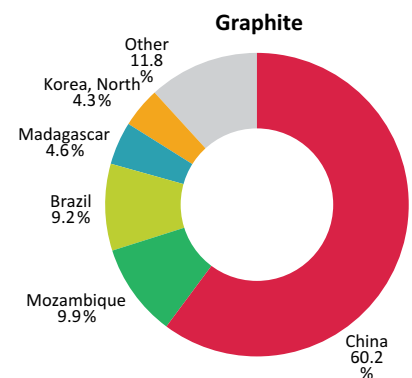
### Since decades Congo D.R. is dominating primary Cobalt production



### Largest 6 producer countries share 80.6% of Manganese production



### China leads Natural Graphite production since the early 1990's





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# 1 Mineral Raw Materials

The mineral materials included in this report are arranged in five groups:

Iron and Ferro-Alloy Metals

Non-Ferrous Metals

Precious Metals

Industrial Minerals

Mineral Fuels

## **Iron and Ferro-Alloy Metals:**

Iron, Chromium, Cobalt, Manganese, Molybdenum, Nickel, Niobium, Tantalum, Titanium, Tungsten, Vanadium

## **Non-Ferrous Metals:**

Aluminium, Antimony, Arsenic, Bauxite, Beryllium, Bismuth, Cadmium, Copper, Gallium, Germanium, Indium, Lead, Lithium, Mercury, Rare Earth Minerals, Rhenium, Selenium, Tellurium, Tin, Zinc

## **Precious Metals:**

Gold, Platinum-Group Metals (Palladium, Platinum, Rhodium), Silver

## **Industrial Minerals:**

Asbestos, Baryte, Bentonite, Boron Minerals, Diamond (Gem/Industrial), Diatomite, Feldspar, Fluorspar, Graphite, Gypsum and Anhydrite, Kaolin (China-Clay), Magnesite, Perlite, Phosphates (incl. Guano), Potash, Salt, Sulfur, Talc (incl. Steatite and Pyrophyllite), Vermiculite, Zircon

## **Mineral Fuels:**

Steam Coal (incl. Anthracite and Sub-Bituminous Coal), Coking Coal, Lignite, Natural Gas, Crude Petroleum, Oil Sands, Oil Shales, Uranium

## 2 Definitions

Mineral raw materials are mineral constituents of the earth's crust which are of economic value. In the most comprehensive sense this includes the so-called "mine output" as well as the output from processing at or near the mines (for instance, the up-grading of ores to concentrates).

Primary materials are marketable products obtained by processing crude minerals (usually up to the first processing stage only).

Contents of output are mostly calculated empirically (see Chapter 3).

### Weights and Measures:

1 metric ton (metr. t)	=	1 000 kg
1 short ton (short t)	=	907.2 kg
1 long ton (long t)	=	1 016.047 kg
1 pound (lb)	=	0.4536 kg
1 troy ounce (oz)	=	31.1035 g
1 carat (ct)	=	200 mg

### Conversion table:

Volume units:

1 Cubic foot (ft <sup>3</sup> )	=	Cubic meter (m <sup>3</sup> ) x 0.028317
1 Cubic meter (m <sup>3</sup> )	=	Cubic foot (ft <sup>3</sup> ) x 35.31467
1 US (=petroleum) barrel (bbl)	=	42 liquid US gallons = 158.98 l
1 flask mercury	=	76 lb = 34.5 kg

Conversion for salt brine:

$$1 \text{ m}^3 \times 0.3 = 1 \text{ metr. t}$$

Conversion factor natural gas:

$$1 \text{ m}^3 \approx 0.8 \text{ kg} = 0.0008 \text{ metr. t}$$

Conversion for crude petroleum (approximate method):

7.33 bbl (barrel)	=	1 metr. t
1 bbl	=	0.1364 metr. t
1 bbl/d	≈	49.8 metr. t/a

Conversion factor lignite (metr. t to TCE = tons of coal equivalent):

Greece, North Macedonia	0.19
Germany	0.29
Afghanistan, Algeria, Argentina, Bangladesh, Belgium, Belarus, Bhutan, Botswana, Brazil, Burundi, Central African Republic, Chile, Colombia, Costa Rica, Cuba, Czech Republic, Dominican Republic, Ecuador, Egypt, Eswatini, Ethiopia, Falkland/Malvinas Islands, Finland, Georgia, Haiti, Honduras, Indonesia, Iran, Ireland, Israel, Jamaica, Kazakhstan, Korea North, Korea South, Kyrgyzstan, Malawi, Malaysia, Mali, Mexico, Mongolia, Morocco, Mozambique, Nepal, Netherlands, New Caledonia, Niger, Norway, Oman, Poland, Rwanda, Sierra Leone, Slovakia, South Africa, Spain, Sri Lanka, St. Vincent/Grenadine, Sweden, Taiwan, Tajikistan, Tanzania, Turkmenistan, Remaining Eastern Asia (SWL), Remaining Eastern Europe, former USSR/CIS, Ukraine, United Kingdom, Uruguay, Uzbekistan, Venezuela, Zaire, Zambia, Zimbabwe	0.30
Bosnia-Herzegovina, Croatia, Kosovo, Serbia and Montenegro, Slovenia, former Yugoslavia	0.32
Australia, Cambodia, Denmark, India, Japan, Laos, Madagascar, Myanmar, Nigeria, Pakistan, Peru, Philippines, Romania, Thailand, Turkey, Vietnam	0.33
Italy	0.36
China, France, Hungary	0.40
Russia	0.45
Albania, Austria, Bulgaria, Canada, New Zealand, United States of America	0.50
Portugal	0.58

Conversion factor steam coal, coking coal (metr. t to TCE = tons of coal equivalent):

Czech Republic	0.60
Indonesia	0.65
Armenia, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Ukraine, Uzbekistan	0.66
Cameroon, Chile, Ecuador, Pakistan, St. Vincent/Grenadines, Sweden	0.70
India	0.71
China, Remaining Eastern Asia	0.72
Croatia, Serbia and Montenegro, former Yugoslavia	0.76
Spain	0.77

Japan, Nigeria	0.78
Afghanistan, Albania, Algeria, Argentina, Bangladesh, Bhutan, Bolivia, Bosnia-Herzegovina, Botswana, Brazil, Bulgaria, Burundi, Cambodia, Central African Republic, Costa Rica, Cuba, Denmark, Dominican Republic, Egypt, Eswatini, Ethiopia, Falkland/Malvinas Islands, Finland, Greece, Haiti, Honduras, Hungary, Iran, Ireland, Israel, Italy, Jamaica, Korea North, Korea South, Laos, Madagascar, Malawi, Malaysia, Mali, Mexico, Moldova, Mongolia, Morocco, Mozambique, Myanmar, Nepal, New Caledonia, New Zealand, Niger, Norway, Oman, Peru, Philippines, Portugal, Remaining Asia, Romania, Russia, Rwanda, Sierra Leone, Sri Lanka, Taiwan, Tanzania, Thailand, Tunisia, Uruguay, Venezuela, Vietnam, Zaire, Zambia, Zimbabwe	0.80
United Kingdom	0.82
France, Poland, Remaining Africa, South Africa	0.85
Belgium, United States of America	0.86
Australia	0.90
Turkey	0.91
Germany, Colombia	0.94
Canada	0.95

**Sources and accuracy of data (see chapter 6.4):**

- 1 reported figure
- 2 estimated figure
- 3 provisional figure
  
- a Questionnaire
- b US Geological Survey (USGS)
- c Kimberley Process Certification Scheme (KPCS)
- d World Nuclear Association
- e National statistics
- f Metallgesellschaft (until 1998)
- m OECD and ECE
- n Others (Company reports etc.)
- o Oil & Gas Journal
- p IEA
- q International Consultative Group
- r BP plc
- s British Geological Survey (BGS)

## 3 Details on Contents, Weights, Measures and Values

Mineral raw materials and ore bodies with significant variations in valuable mineral content have been calculated to obtain the actually useable mineral content, e.g. highly variable Fe-contents of iron carbonates and iron oxides. Production figures throughout this report do not (unless otherwise specified) refer to crude ore (ROM/run of mine) or concentrate produced from it, but indicate the content of recoverable valuable elements and compounds.

Total world production figures (chapter 6.1) do not include Bauxite production as Bauxite is the base raw material in Aluminium production. Production figures for Bauxite can be found in commodity and country statistics (chapter 6.2 ff.).

### Iron and Ferro-Alloy Metals:

Iron	Fe	metr. t
Chromium	Cr <sub>2</sub> O <sub>3</sub>	metr. t
Cobalt	Co	metr. t
Manganese	Mn	metr. t
Molybdenum	Mo	metr. t
Nickel	Ni	metr. t
Niobium	Nb <sub>2</sub> O <sub>5</sub>	metr. t
Tantalum	Ta <sub>2</sub> O <sub>5</sub>	metr. t
Titanium	TiO <sub>2</sub>	metr. t
Tungsten	W	metr. t
Vanadium	V	metr. t

### Non-Ferrous Metals:

Aluminium	Al, primary	metr. t
Antimony	Sb	metr. t
Arsenic	As <sub>2</sub> O <sub>3</sub>	metr. t
Bauxite	crude ore	metr. t

Beryllium	conc.	metr. t
Bismuth	Bi	metr. t
Cadmium	Cd	metr. t
Copper	Cu	metr. t
Gallium	Ga	metr. t
Germanium	Ge	metr. t
Indium	In	metr. t
Lead	Pb	metr. t
Lithium	Li <sub>2</sub> O	metr. t
Mercury	Hg	metr. t
Rare Earth Minerals	REO	metr. t
Rhenium	Re	kg
Selenium	Se	metr. t
Tellurium	Te	metr. t
Tin	Sn	metr. t
Zinc	Zn	metr. t

#### **Precious Metals:**

Gold	Au	kg
Palladium	Pd	kg
Platinum	Pt	kg
Rhodium	Rh	kg
Silver	Ag	kg

#### **Industrial Minerals:**

Asbestos		metr. t
Baryte		metr. t
Bentonite		metr. t
Boron minerals		metr. t
Diamonds (Gem)		ct
Diamonds (Ind)		ct
Diatomite		metr. t

Feldspar		metr. t
Fluorspar		metr. t
Graphite		metr. t
Gypsum and Anhydrite		metr. t
Kaolin (China-Clay)		metr. t
Magnesite		metr. t
Perlite		metr. t
Phosphates	P <sub>2</sub> O <sub>5</sub>	metr. t
Potash	K <sub>2</sub> O	metr. t
Salt (rock salt, brines, marine salt)		metr. t
Sulfur (elementar and industrial sulfur)		metr. t
Talc, Steatite and Pyrophyllite		metr. t
Vermiculite		metr. t
Zircon	conc.	metr. t

### **Mineral Fuels:**

Steam coal (incl. anthracite, bituminous and sub-bituminous coal)		metr. t
Coking coal		metr. t
Lignite		metr. t
Natural Gas		Mio m <sup>3</sup>
Oil Sands	crude	metr. t
Oil Shales		metr. t
Petroleum	crude	metr. t
Uranium	U <sub>3</sub> O <sub>8</sub>	metr. t



## **Commodity Prices:**

Sources of annual averages:

- Metall Bulletin
- Industrial Minerals
- BGR-Rohstoffdatenbank, 2019; Bundesanstalt für Geowissenschaften und Rohstoffe, Deutschland
- U.S. Geological Survey
- Kitco Metals Inc.
- Metal-Prices
- Cameco Corporation
- IEA: Coal Information
- U.S. Energy Information Administration / Monthly Energy

# 4 Regional and Sectoral Groups

## 4.1 Development Status of Producer Countries

An attempt was made to identify the development status of all countries that produce mineral raw materials. The different producer countries were classified according to international standards considering in particular UNCTAD and IIASA classifications. The classification has been adopted for statistical convenience only (see fig. 5).

Important note: The designations “developed”, “in transition” and “developing” are intended for statistical convenience and do not necessarily express a judgement about the stage reached by a particular country or area in the development process. Where the designations “economy” or “country” appear in tables, they cover countries, territories, cities and areas.

### **Developed, developing countries:**

According to OECD GLOSSARY OF STATISTICAL TERMS

There is no established convention for the designation of “developed” and “developing” countries or areas in the United Nations system. In common practice, Japan in Asia, Canada and the United States in northern America, Australia and New Zealand in Oceania and Europe are considered “developed” regions or areas. In international trade statistics, the Southern African Customs Union is also treated as developed region and Israel as a developed country; countries emerging from the former Yugoslavia are treated as developing countries; and countries of Eastern Europe and the former USSR countries in Europe are not included under either developed or developing regions (see economies in transition).

For detailed list of developing countries see

<https://unstats.un.org/unsd/methodology/m49/>

Source: United Nations. Standard country or Area Codes for Statistical Use. Series M, No. 49, Rev. 4 (United Nations publication, Sales No. M.98.XVII.9).

### **Least Developed Countries:**

According to OECD GLOSSARY OF STATISTICAL TERMS

According to the General Assembly, on the recommendation of the Committee for Development Policy, countries listed below are included in the list of the least developed countries (year in brackets indicates the inclusion in the group):

Africa: Angola (1994), Benin (1971), Burkina Faso (1971), Burundi (1971), Central African Republic (1975), Chad (1971), Comoros (1977), Congo, D.R. (1991), Djibouti (1982), Equatorial Guinea (1982-2017), Eritrea (1994), Ethiopia (1971), Gambia (1975), Guinea (1971), Guinea-Bissau (1981), Lesotho (1971), Liberia (1990), Madagascar (1991), Malawi (1971), Mali (1971), Mauritania (1986), Mozambique (1988), Niger (1971), Rwanda (1971), Sao Tome and Principe (1982), Senegal (2000), Sierra Leone (1982), Somalia (1971), South Sudan (2012), Sudan (1971), Tanzania (1971), Togo (1982), Uganda (1971), Zambia (1991)

Asia and the Pacific: Afghanistan (1971), Bangladesh (1975), Bhutan (1971), Cambodia (1991), Kiribati (1986), Laos P.D.R. (1971), Myanmar (1987), Nepal (1971), Solomon Islands (1991), East Timor (2003), Tuvalu (1986), Vanuatu (1985), Yemen (1971)

Latin America and the Caribbean: Haiti (1971)

Source: United Nations. Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States (OHRLLS). United Nations webpage <https://www.un.org>

### **Economies in Transition:**

According to UNCTAD HANDBOOK OF STATISTICS (2019)

Asia: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

Europe: Albania, Belarus, Bosnia-Herzegovina, Kosovo, Moldova, Montenegro, Russia, Serbia, North Macedonia, Ukraine

## 4.2 Regional Groups of Producer Countries

### **CPE: (Centrally Planned Economies)**

China, Cuba, Korea North, Mongolia, Vietnam

### **World Regions: (according to IIASA)**

CAS - Central Asia: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

CPA - China & CPA: Cambodia, China, Hong Kong, Korea North, Laos, Mongolia, Taiwan, Vietnam

EEU - Eastern Europe: Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Czech Republic, Hungary, Kosovo, North Macedonia, Montenegro, Poland, Romania, Slovakia, Slovenia, former Yugoslavia

FSU - Former Soviet Union: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Latvia, Lithuania, Moldova, Russian Federation, Ukraine

LAM - Latin America: Antigua & Barbuda, Argentina, Bahamas, Barbados, Belize, Bermuda, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, St. Kitts & Nevis, St. Lucia, St. Vincent, Suriname, Trinidad & Tobago, Uruguay, Venezuela

MEA - Middle East: Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen

NAF - North Africa: Algeria, Egypt, Libya, Morocco, South Sudan, Sudan, Tunisia

NAM - North America: Canada, Guam, Puerto Rico, Virgin Islands, United States of America

PAO - Pacific OECD: Australia, Japan, New Zealand

PAS - Pacific Asia: American Samoa, Brunei, East Timor, Fiji, French Polynesia, Indonesia, Kiribati, Korea South, Malaysia, Myanmar, New Caledonia, Papua New Guinea, Phillippines, Singapore, Solomon Islands, Thailand, Tonga, Vanuatu, Western Samoa

SAS - South Asia: Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka

SSA - Sub-Saharan Africa: Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo D.R., Congo Rep., Cote d'Ivoire, Djibouti, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, St. Helena, Sao Tomé and Príncipe, Senegal, Sierra Leone, Seychelles, Somalia, South Africa, Tanzania, Togo, Uganda, Zambia, Zimbabwe

WEU - Western Europe: Andorra, Austria, Azores, Belgium, Canary Islands, Cyprus, Denmark, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Greenland, Iceland, Ireland, Isle of Man, Italy, Liechtenstein, Luxembourg, Madeira, Malta, Monaco, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom

Apart from these, the membership of various countries in different economic blocks or other cartel-like associations was taken into consideration.

### **4.3 Economic Blocks or Cartel-like Associations**

Economic blocks or cartel-like associations were included as follows (in alphabetical order, in brackets year of entry):

#### **ACP Countries: African, Caribbean and Pacific group of states linked to the European Communities as signatory to the Georgetown Agreement and the Lomé Conventions.**

Africa: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo D.R., Congo Rep., Côte d'Ivoire, Djibuti, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauretania, Mauritius, Mozambique,

Namibia, Niger, Nigeria, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe

Caribbean: Antigua-Barbuda, Bahamas, Barbados, Belize, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, St. Kitts-Nevis, St. Lucia, St. Vincent-Grenadines, Suriname, Trinidad and Tobago

Pacific: Cook Islands, Fiji, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, East Timor, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu

### **ASEAN Countries: Association of South East Asian Nations**

Brunei (1984), Cambodia (1999), Indonesia, Laos (1997), Malaysia, Myanmar (1997), Philippines, Singapore, Thailand, Vietnam (1995)

### **BRICS Countries:**

A 2001 report by Goldman Sachs chief economist Jim O'Neill created the modern term for the four major emerging economies with annual growth rates in economic performance of 5 to 10%. BRICS stands for the initials of the countries of Brazil, Russia, India and China. South Africa joined in 2011.

### **EC (EU): European Community**

Austria (1995), Belgium (1952/58), Bulgaria (2007), Croatia (2013), Cyprus (2004), Czech Republic (2004), Denmark (1973), Estonia (2004), Finland (1995), France (1952/58), Germany (1952/58), Greece (1981), Hungary (2004), Ireland (1973), Italy (1952/58), Latvia (2004), Lithuania (2004), Luxemburg (1952/58), Malta (2004), Netherlands (1952/58), Poland (2004), Portugal (1986), Romania (2007), Slovakia (2004), Slovenia (2004), Spain (1986), Sweden (1995), United Kingdom and North Ireland (1973-2020)

### **EFTA: European Free Trade Association**

Austria (until 1994), Denmark (until 1973), Finland (until 1994), Iceland, Liechtenstein, Norway, Portugal (until 1986), Sweden (until 1994), Switzerland, United Kingdom (until 1973)

### **G7/G8: Group of the Most Important Industrialized Countries**

G7 (1976): Canada, Germany, France, Italy, Japan, United Kingdom, United States of America, Russia (1998-2013)

### **MERCOSUR (Mercado Comun del Sur): Common Market of the South**

Treaty since January 1, 1995 between Argentina, Brazil, Paraguay and Uruguay establishing a common market; Venezuela 2006-2017; associated members: Bolivia, Chile, Colombia, Ecuador, Guyana, Peru, Suriname

### **NAFTA: North American Free Trade Agreement**

Canada, Mexico, United States of America  
This association was established on January 1, 1994.

### **OECD: Organization for Economic Cooperation and Development**

Australia (1971), Austria (1961), Belgium (1961), Canada (1961), Chile (2010), Czech Republic (1995), Denmark (1961), Estonia (2010), Finland (1969), France (1961), Germany (1961), Greece (1961), Hungary (1996), Iceland (1961), Ireland (1961), Israel (2010), Italy (1961), Japan (1964), Korea South (1996), Latvia (2016), Lithuania (2018), Luxemburg (1961), Mexico (1994), Netherlands (1961), New Zealand (1973), Norway (1961), Poland (1996), Portugal (1961), Slovakia (2000), Slovenia (2010), Spain (1961), Sweden (1961), Switzerland (1961), Turkey (1961), United Kingdom (1961), United States of America (1961)

### **SADC: Southern African Development Community**

Angola, Botswana, Comoros (2017), Congo D.R. (1997), Eswatini, Lesotho, Madagascar (2005-2009, 2014), Malawi, Mauritius (1995), Mozambique, Namibia (1990), Seychelles (1997-2004, 2008) South Africa (1994), Tanzania, Zambia, Zimbabwe

## 4.4 Political Stability of Producer Countries

The worldwide Governance Indicators rely on 31 data sources, including surveys of enterprises and citizens, and expert polls, gathered from 25 different organizations around the world (D. KAUFMANN, A. KRAAY & M. MASTRUZZI 2010). These provide data derived from hundreds of questions about governance. Before aggregation is carried out each question is mapped to one of six dimensions of governance: (1) Voice and Accountability; (2) Political Stability and Absence of Violence; (3) Government Effectiveness; (4) Regulatory Quality; (5) Rule of Law; (6) Control of Corruption.

Definition of political stability and absence of violence: A measure of the perception of the likelihood that the government will be destabilized or overthrown by unconstitutional or violent means, including political violence and terrorism.

The values of measurement are indexed with a mean of zero and a standard deviation of one in each period. Virtually all scores lie between -2.5 and +2.5, with higher scores corresponding to better outcomes. The aggregate estimates convey no information about trends in global averages of governance but they are, of course, informative about changes in individual countries over time.

Classes of political stability used in WMD: Estimates  $\leq -1.25$ : extremely unstable;  $\leq 0$  to  $-1.25$ : unstable;  $> 0$  to  $+1.25$ : fair;  $\geq +1.25$ : stable; (see fig. 6).

More information:

Kaufmann, Daniel, Kraay, Aart and Mastruzzi, Massimo, The Worldwide Governance Indicators: Methodology and Analytical Issues (September 2010). World Bank Policy Research Working Paper No. 5430. Available at SSRN: <http://ssrn.com/abstract=1682130>



## 4.5 Minerals Production by GNI (Gross National Income) of Producer Countries

For analytical purposes, World Bank member economies and all other economies with populations of more than 30 000 inhabitants have been grouped annually according to GNI. Economies are classified annually among income groups to gross national income (GNI) per capita, using the World Bank Atlas method of calculation. The groups are: L low income, LM lower middle income, UM upper middle income, H high income.

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
	see 1987									
L	-	-	-	≤ 480	≤ 545	≤ 580	≤ 610	≤ 635	≤ 675	≤ 695
LM	-	-	-	≤ 1 940	≤ 2 200	≤ 2 335	≤ 2 465	≤ 2 555	≤ 2 695	≤ 2 785
UM	-	-	-	≤ 6 000	≤ 6 000	≤ 6 000	≤ 7 620	≤ 7 910	≤ 8 355	≤ 8 625
H	-	-	-	> 6 000	> 6 000	> 6 000	>7 620	> 7 910	> 8 355	> 8 625
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
L	≤ 725	≤ 765	≤ 785	≤ 785	≤ 760	≤ 755	≤ 755	≤ 745	≤ 735	≤ 765
LM	≤ 2 895	≤ 3 035	≤ 3 115	≤ 3 125	≤ 3 030	≤ 2 995	≤ 2 995	≤ 2 975	≤ 2 935	≤ 3 035
UM	≤ 8 955	≤ 9 385	≤ 9 645	≤ 9 655	≤ 9 360	≤ 9 265	≤ 9 265	≤ 9 205	≤ 9 075	≤ 9 385
H	> 8 955	> 9 385	> 9 645	> 9 655	> 9 360	> 9 265	> 9 265	>9 205	> 9 075	> 9 385
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
L	≤ 825	≤ 875	≤ 905	≤ 935	≤ 975	≤ 995	≤ 1 005	≤ 1 025	≤ 1 035	≤ 1 045
LM	≤ 3 255	≤ 3 465	≤ 3 595	≤ 3 705	≤ 3 855	≤ 3 945	≤ 3 975	≤ 4 035	≤ 4 085	≤ 4 125
UM	≤ 10 065	≤ 10 725	≤ 11 115	≤ 11 455	≤ 11 905	≤ 12 195	≤ 12 275	≤ 12 475	≤ 12 615	≤ 12 745
H	> 10 065	> 10 725	> 11 115	> 11 455	> 11 905	> 12 195	> 12 275	> 12 475	> 12 615	> 12 745
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
L	≤ 1 045	≤ 1 025	≤ 1 005	≤ 995	≤ 1 025					
LM	≤ 4 125	≤ 4 035	≤ 3 955	≤ 3 895	≤ 3 995					
UM	≤ 12 735	≤ 12 475	≤ 12 235	≤ 12 055	≤ 12 375					
H	> 12 735	> 12 475	> 12 235	> 12 055	> 12 375					

From: World Bank Analytical Classification World Development Indicators GNI per capita in USD: <https://blogs.worldbank.org/team/world-bank-data-team>

## 4.6 Concentration of Producer Countries

The Herfindahl-Hirschman Index (HHI) is a commonly accepted and used measure of market concentration. It is calculated by squaring the market share of each firm competing in the market and then summing the resulting numbers. Only one firm means 100% market share. In this case the HHI would equal 10 000 ( $100^2$ ), indicating a monopoly. A market consisting of 4 companies with shares of 50%, 30%, 15% and 5%, results in a HHI of  $50^2+30^2+15^2+5^2=3\ 650$ . The HHI takes into account the relative size and distribution of the firms in a market and approaches zero when a market consists of a large number of firms of relatively equal size. The HHI increases both as the number of firms in the market decreases and as the disparity in size between those firms increases.

In the United States markets, in which the HHI varies between 1 000 and 1 800 points, are considered to be moderately concentrated, and those in which the HHI is in excess of 1 800 points are considered to be concentrated. In the EU the threshold for concentrated markets is 2 000.

In chapter 6.5 the concentration of producer countries is calculated by the HHI similarly to the firms index (see fig. 3). To avoid misunderstandings with the “classical” HHI, the countries concentration index is named as  ${}_{(mod)}HHI_{(ct)}$ .

# 5 Data Capture

Collection of data relating to mineral raw materials has been carried out through evaluation of questionnaires sent to the National Committees of member countries of the World Mining Congress as well as to other bodies such as Embassies, Foreign Trade Representatives etc. Other official mining statistics, where publically available, have also been used; for example, data produced by the BGS (World Mineral Production) and the USGS data sets have been very useful.

For the present publication the complete data set has been reviewed carefully. Despite a diligent search of all sources, there are some producing areas where data is unavailable. In such instances, careful estimates of production have been made.

Although data processing has been done automatically, the possibility of human error at the data entry stage exists. Since the data-base is being continuously updated the compilers would be grateful to learn of any corrections and additions that can be made.

**Deadline for this report: February 28, 2020**

Data received later than February 28, 2020 will be implemented in the next edition of this report.

Please send any remarks to  
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World Mining Data is available at:

<https://www.bmlrt.gv.at/energie-bergbau/bergbau/Welt-Bergbau-Daten.html>  
<https://www.world-mining-data.info/>

**Disclaimer:**

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The BMLRT makes no guarantee, either express or implied, concerning the accuracy, completeness, or reliability of the information.

# Charts

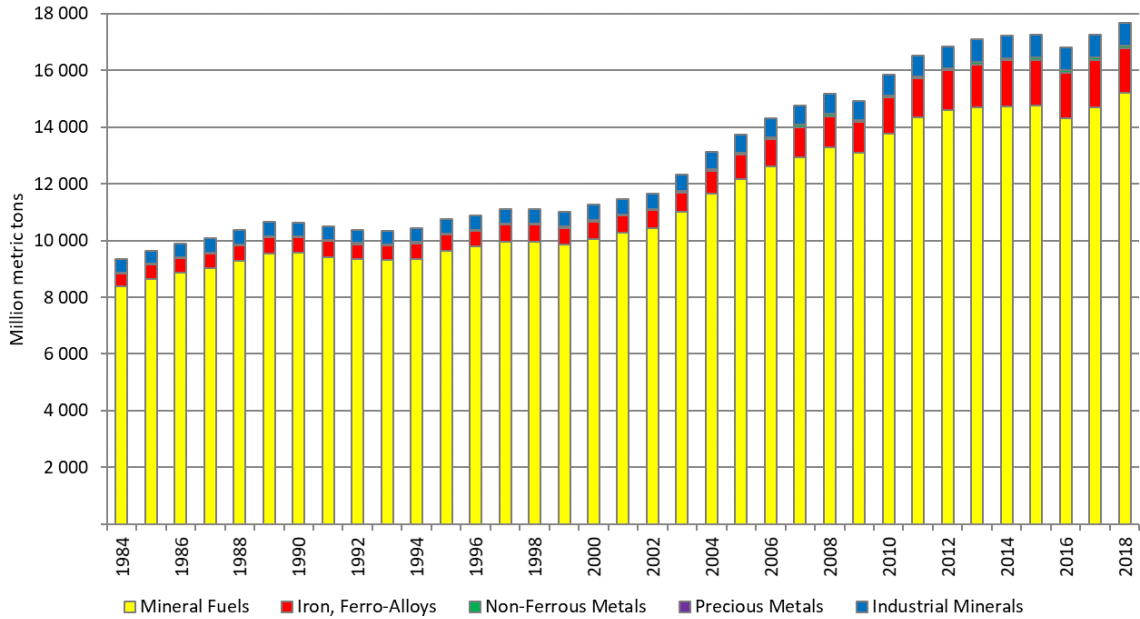


Fig. 1: World mining production 1984 - 2018 by groups of minerals (without construction minerals, in Million metr. t)

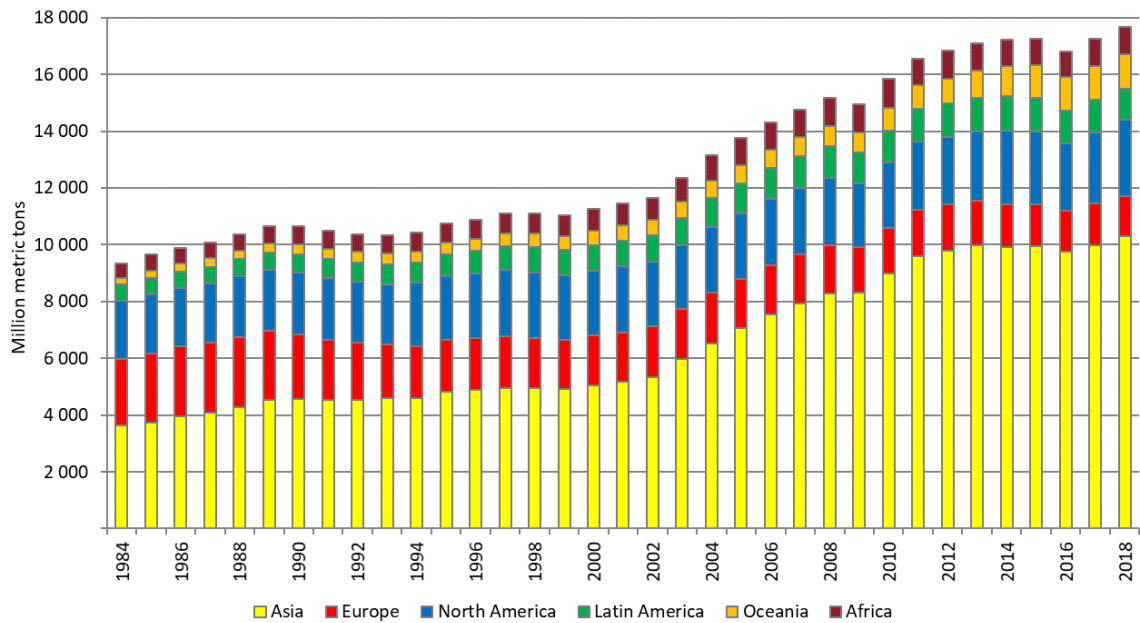


Fig. 2: World mining production 1984 - 2018 by continents (without construction minerals, in Million metr. t)

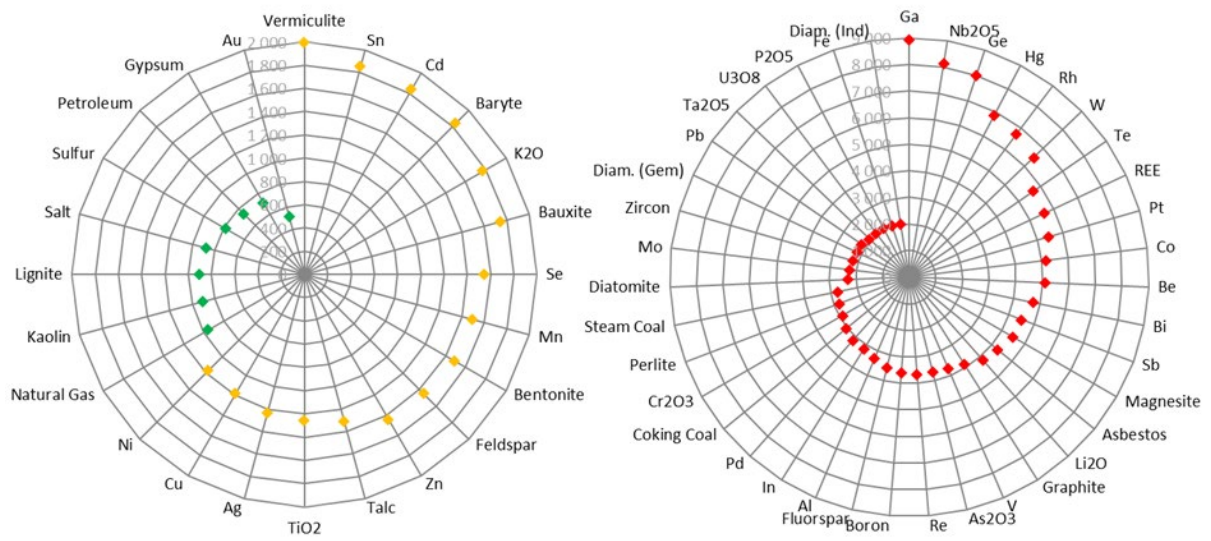


Fig. 3: Concentration of Producer Countries, Herfindahl-Hirschman Indices in 2018  
 left figure: HHI < 2.000 (Country Concentration  $\diamond$  low,  $\diamond$  moderate)  
 right figure: HHI > 2.000 (Country Concentration  $\diamond$  high)

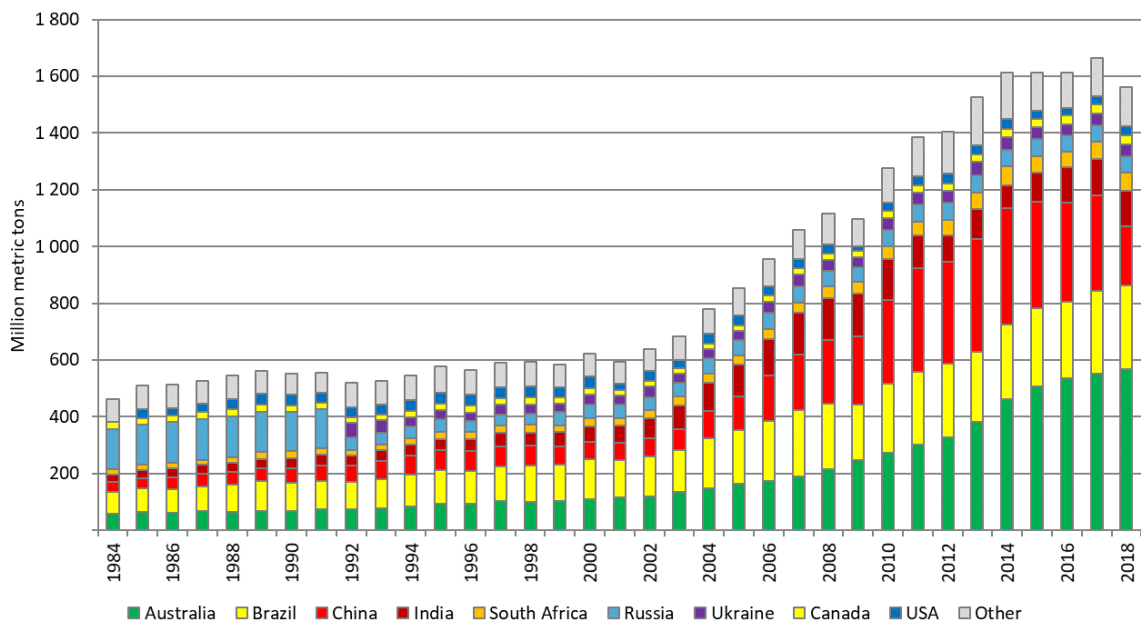


Fig. 4: World mining production 1984 - 2018 by groups of minerals: Iron and Ferro-Alloy Metals by largest producer countries (in Million metr. t)

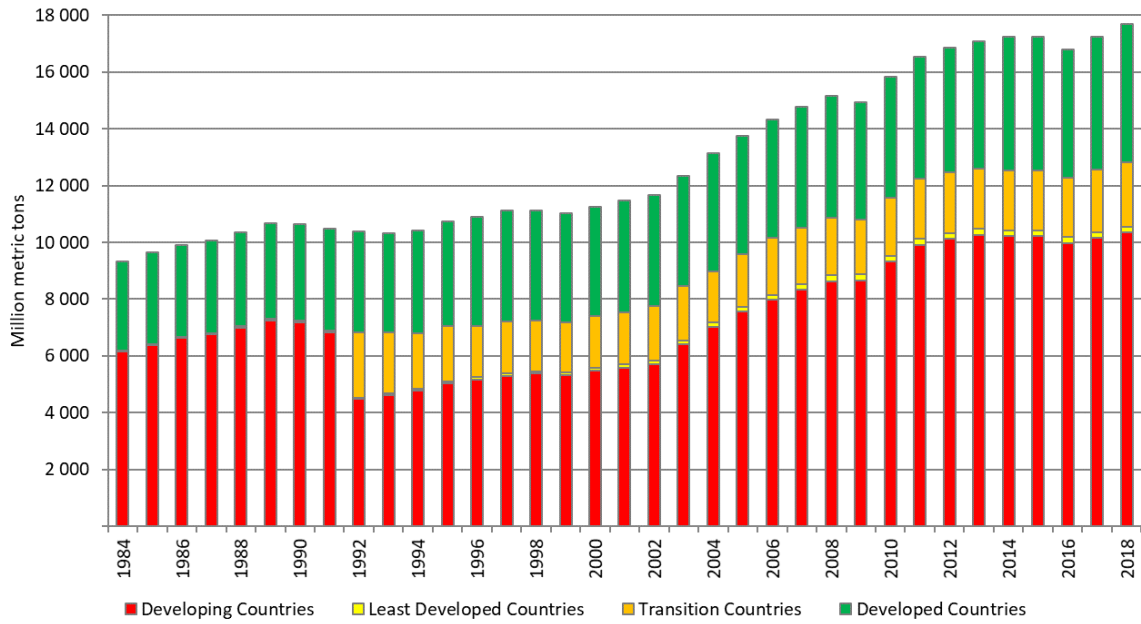


Fig. 5: World mining production 1984 - 2018 by development status of the producer countries (without construction minerals, in Million metr. t)

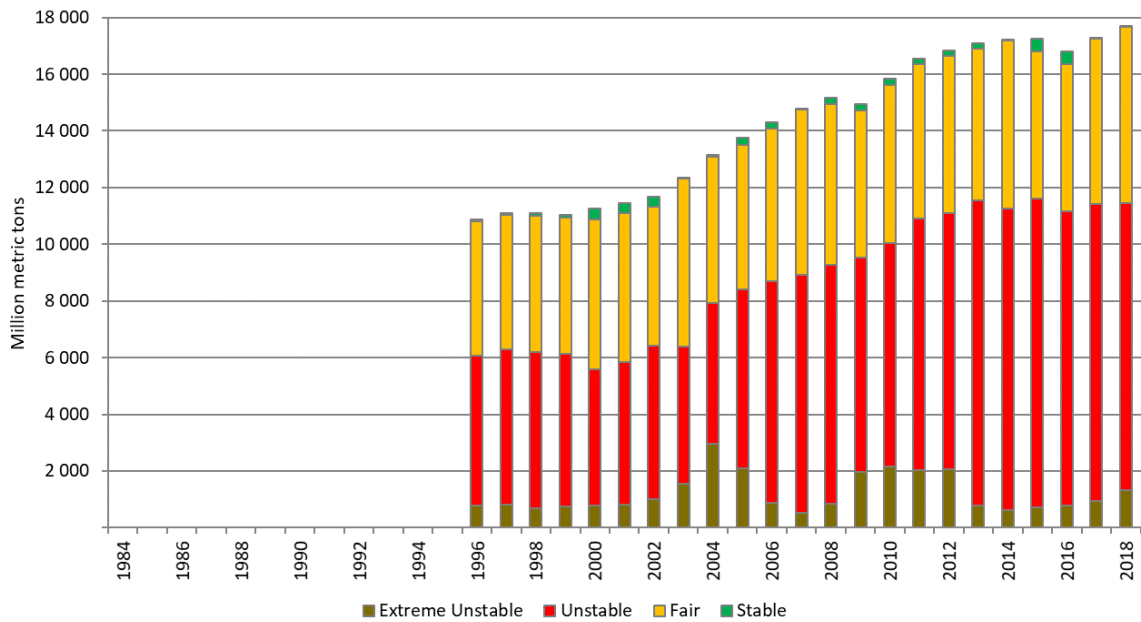


Fig. 6: World mining production 1984 - 2018 by political stability of the producer countries (without construction minerals, in Million metr. t)

Estimates of political stability of producer countries: WORLD BANK, Governance matters IX

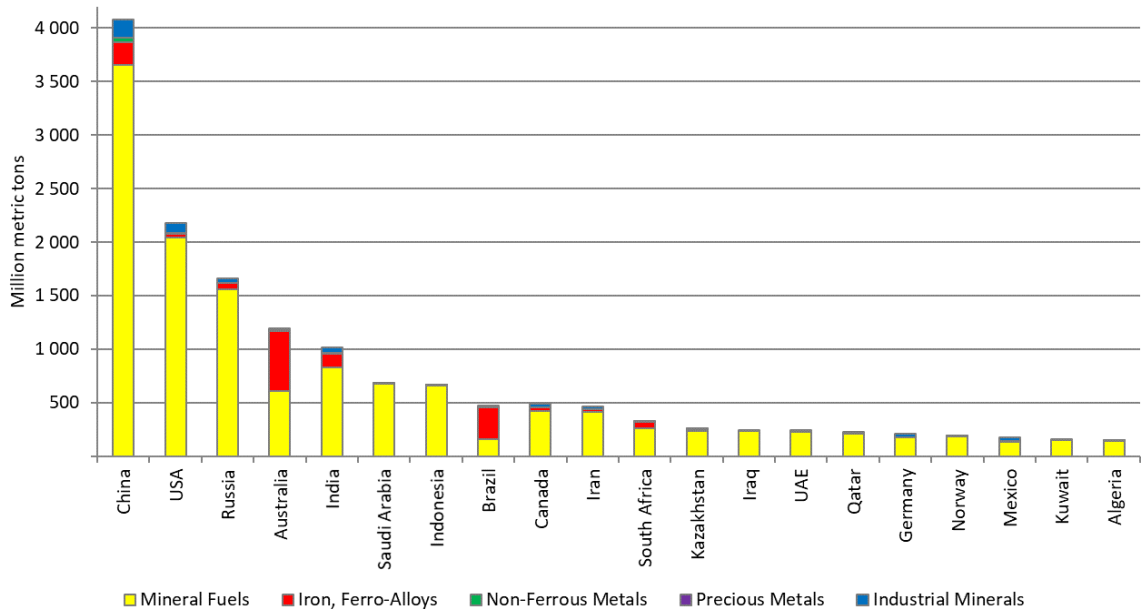


Fig. 7: 20 largest producer countries 2018 (without construction minerals, in Million metr. t)

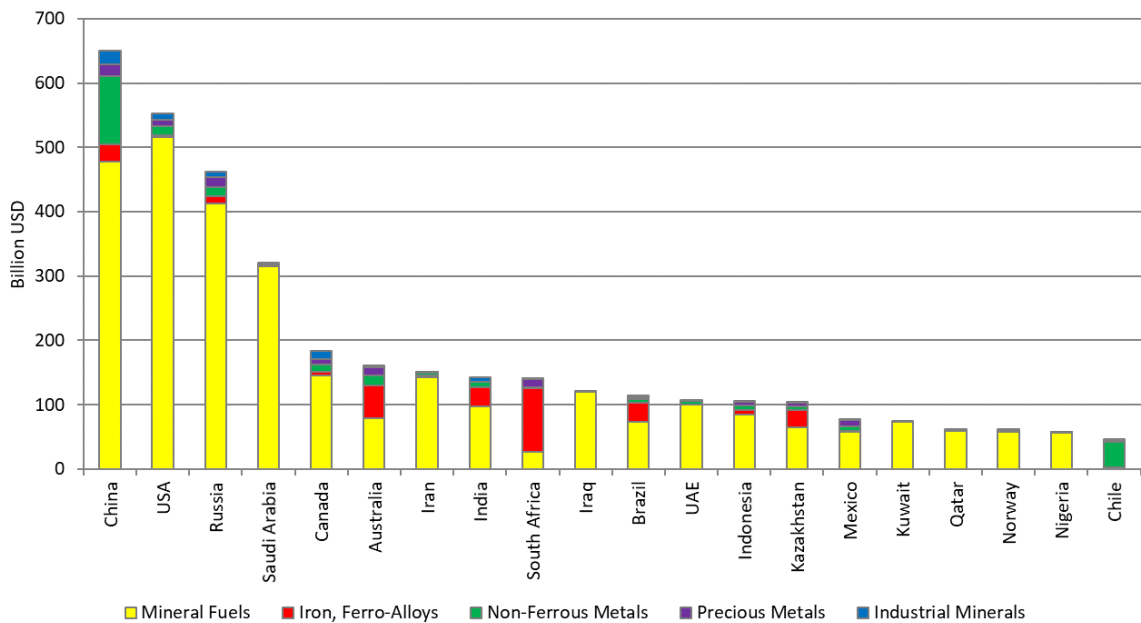


Fig. 8: 20 largest producer countries 2018 (without construction minerals, in Billion USD)

# 6 World Production of Mineral Raw Materials

## 6.1 Total World Production

### 6.1.1 Total Minerals Production, by Continents

	(not including bauxite) in metr. t				
	1984	1985	1986	1987	1988
Africa	491 277 838	553 611 145	560 389 452	558 162 223	578 429 601
Asia	3 621 314 210	3 739 476 730	3 967 359 418	4 077 928 222	4 279 287 546
Europe	2 343 687 167	2 434 569 522	2 471 557 140	2 485 274 829	2 472 914 295
Latin America	562 918 109	566 395 211	573 958 486	563 610 024	591 044 007
North America	2 059 724 620	2 071 063 053	2 027 980 977	2 072 705 805	2 141 270 229
Oceania	254 010 287	280 261 932	292 796 449	322 233 565	304 067 006
<b>Total</b>	<b>9 332 932 231</b>	<b>9 645 377 593</b>	<b>9 894 041 922</b>	<b>10 079 914 668</b>	<b>10 367 012 684</b>
	1989	1990	1991	1992	1993
Africa	611 700 950	629 191 234	645 653 677	631 548 263	641 442 391
Asia	4 532 525 599	4 573 060 015	4 530 396 545	4 548 220 868	4 612 144 260
Europe	2 424 486 765	2 260 384 385	2 123 019 949	1 988 394 941	1 874 964 144
Latin America	613 513 369	646 386 506	663 052 192	670 804 236	686 844 925
North America	2 149 864 726	2 188 415 391	2 168 657 375	2 165 667 883	2 125 490 049
Oceania	332 116 920	347 898 842	362 385 522	374 707 983	386 115 067
<b>Total</b>	<b>10 664 208 329</b>	<b>10 645 336 373</b>	<b>10 493 165 260</b>	<b>10 379 344 174</b>	<b>10 327 000 836</b>
	1994	1995	1996	1997	1998
Africa	652 593 419	686 972 850	680 883 877	713 277 901	720 075 978
Asia	4 588 322 107	4 815 059 663	4 874 850 486	4 964 116 824	4 962 012 156
Europe	1 826 572 787	1 833 430 282	1 832 220 547	1 827 952 944	1 746 837 267
Latin America	719 915 525	746 496 046	777 023 660	812 993 140	886 734 627
North America	2 243 126 143	2 252 006 443	2 295 220 797	2 330 778 494	2 320 319 541
Oceania	392 630 850	415 408 333	429 772 081	462 884 590	477 032 547
<b>Total</b>	<b>10 423 160 831</b>	<b>10 749 373 617</b>	<b>10 889 971 448</b>	<b>11 112 003 893</b>	<b>11 113 012 116</b>



	1999	2000	2001	2002	2003
Africa	732 165 377	765 733 161	773 456 477	781 715 961	833 951 331
Asia	4 921 796 566	5 043 150 649	5 163 465 843	5 346 009 637	5 959 374 863
Europe	1 720 797 326	1 752 805 369	1 751 057 269	1 776 546 926	1 774 625 224
Latin America	878 609 070	908 640 909	917 493 878	921 057 336	953 426 686
North America	2 289 479 455	2 279 984 584	2 314 350 651	2 277 920 661	2 241 993 845
Oceania	484 371 047	515 396 283	542 716 215	559 952 299	573 865 355
<b>Total</b>	<b>11 027 218 841</b>	<b>11 265 710 955</b>	<b>11 462 540 333</b>	<b>11 663 202 820</b>	<b>12 337 237 304</b>
	2004	2005	2006	2007	2008
Africa	890 333 467	944 557 106	957 844 493	975 719 824	996 725 540
Asia	6 527 255 206	7 059 272 983	7 544 012 353	7 945 575 595	8 284 291 628
Europe	1 786 210 966	1 748 460 493	1 726 973 499	1 716 887 706	1 694 679 087
Latin America	1 031 040 611	1 066 981 049	1 104 701 083	1 130 871 364	1 121 552 522
North America	2 310 566 856	2 299 927 113	2 336 268 322	2 326 846 598	2 360 827 721
Oceania	597 542 934	629 027 925	643 587 222	675 817 593	710 116 169
<b>Total</b>	<b>13 142 950 040</b>	<b>13 748 226 669</b>	<b>14 313 386 972</b>	<b>14 771 718 680</b>	<b>15 168 192 667</b>
	2009	2010	2011	2012	2013
Africa	963 712 121	1 009 671 549	929 029 245	990 047 428	960 205 488
Asia	8 318 553 352	8 975 044 501	9 605 565 661	9 801 736 670	9 981 280 238
Europe	1 601 749 889	1 618 008 366	1 633 961 846	1 615 794 681	1 574 172 115
Latin America	1 067 014 561	1 129 491 822	1 171 342 165	1 185 383 263	1 172 115 596
North America	2 250 922 145	2 308 826 382	2 383 076 474	2 388 274 640	2 439 003 862
Oceania	730 579 686	801 849 138	817 954 021	866 165 813	960 863 660
<b>Total</b>	<b>14 932 531 754</b>	<b>15 842 891 758</b>	<b>16 540 929 412</b>	<b>16 847 402 495</b>	<b>17 087 640 959</b>
	2014	2015	2016	2017	2018
Africa	943 367 596	936 015 978	906 482 795	959 092 369	977 370 496
Asia	9 925 822 007	9 934 702 795	9 754 277 901	9 993 225 154	10 305 045 311
Europe	1 508 113 342	1 484 791 990	1 449 773 119	1 463 739 060	1 417 880 373
Latin America	1 203 804 009	1 196 496 284	1 159 168 012	1 151 330 924	1 108 386 027
North America	2 585 357 053	2 568 950 068	2 369 628 465	2 486 839 932	2 665 344 318
Oceania	1 067 628 191	1 138 362 314	1 168 151 252	1 197 931 233	1 211 367 802
<b>Total</b>	<b>17 234 092 198</b>	<b>17 259 319 429</b>	<b>16 807 481 544</b>	<b>17 252 158 672</b>	<b>17 685 394 327</b>

## 6.1.2 Total Minerals Production, by World Regions (according to IIASA)

(not including bauxite)  
in metr. t

	1984	1985	1986	1987	1988
CAS	0	0	0	0	0
CPA	1 084 397 345	1 150 246 155	1 189 273 888	1 232 686 205	1 298 274 325
EEU	636 434 074	645 554 466	664 780 323	676 584 195	687 098 406
FSU	2 008 662 916	2 051 073 642	2 128 802 679	2 179 903 214	2 169 791 690
LAM	562 888 109	566 363 466	573 922 198	563 573 736	591 007 707
MEA	617 646 032	602 866 147	684 533 208	699 535 348	815 939 476
NAF	174 049 767	217 905 160	215 653 776	216 323 715	220 463 124
NAM	2 059 754 620	2 071 094 798	2 028 017 265	2 072 742 093	2 141 306 529
PAO	279 878 265	305 796 402	317 751 191	343 737 308	323 796 437
PAS	188 340 003	196 551 734	207 290 187	210 049 392	220 300 462
SAS	239 428 915	250 496 548	275 180 380	284 930 463	307 781 867
SSA	317 228 071	335 705 985	344 735 676	341 838 508	357 966 477
WEU	1 164 224 114	1 251 723 090	1 264 101 151	1 258 010 491	1 233 286 184
Total	9 332 932 231	9 645 377 593	9 894 041 922	10 079 914 668	10 367 012 684
	1989	1990	1991	1992	1993
CAS	0	0	0	278 896 061	261 685 653
CPA	1 388 932 427	1 421 739 140	1 442 426 318	1 480 078 032	1 529 984 539
EEU	663 945 884	594 929 160	568 068 077	527 621 664	481 307 898
FSU	2 177 826 838	2 108 198 188	1 970 059 731	1 482 944 278	1 407 816 504
LAM	613 477 069	646 350 506	663 016 192	670 767 236	686 807 925
MEA	910 052 502	929 738 138	919 651 604	1 024 339 148	1 072 979 738
NAF	230 573 878	250 061 489	260 688 687	249 164 947	247 976 735
NAM	2 149 901 026	2 188 451 391	2 168 693 375	2 165 704 883	2 125 527 049
PAO	350 718 282	364 676 182	379 144 108	388 882 686	396 034 077
PAS	234 655 221	245 597 278	267 909 635	279 690 642	293 744 018
SAS	321 613 319	344 310 203	366 070 717	373 570 728	384 199 829
SSA	381 127 072	379 129 745	384 964 990	382 383 316	393 465 656
WEU	1 241 384 811	1 172 154 953	1 102 471 826	1 075 300 553	1 045 471 215
Total	10 664 208 329	10 645 336 373	10 493 165 260	10 379 344 174	10 327 000 836
	1994	1995	1996	1997	1998
CAS	220 144 489	209 024 514	207 762 674	196 666 341	189 926 351
CPA	1 612 546 352	1 749 181 328	1 821 104 485	1 781 594 011	1 734 940 168
EEU	473 330 177	473 329 323	475 814 475	465 799 677	426 667 791
FSU	1 256 946 449	1 286 922 247	1 194 807 771	1 251 396 651	1 236 193 893
LAM	719 878 025	746 458 546	776 986 660	812 956 640	886 698 627
MEA	1 078 583 706	1 089 951 192	1 099 816 539	1 174 044 183	1 230 759 902
NAF	251 073 843	262 416 382	248 183 472	257 594 302	257 192 208
NAM	2 243 163 643	2 252 043 943	2 295 257 797	2 330 814 994	2 320 355 541
PAO	403 090 498	426 137 006	439 819 631	470 860 516	484 074 557
PAS	297 994 385	323 486 443	344 896 077	355 311 487	349 677 534
SAS	404 686 390	434 661 185	453 450 881	476 071 183	464 113 974
SSA	401 519 576	424 556 468	432 700 405	455 683 599	462 883 770
WEU	1 060 203 298	1 071 205 040	1 099 370 581	1 083 210 309	1 069 527 800
Total	10 423 160 831	10 749 373 617	10 889 971 448	11 112 003 893	11 113 012 116

	1999	2000	2001	2002	2003
CAS	193 706 481	226 432 590	247 773 722	260 744 996	279 344 945
CPA	1 670 212 701	1 665 580 291	1 721 395 760	1 871 279 187	2 261 216 388
EEU	405 152 560	418 948 260	421 744 469	414 324 863	415 183 733
FSU	1 221 889 847	1 240 984 946	1 241 622 547	1 295 937 135	1 345 916 566
LAM	878 573 070	908 640 909	917 493 878	921 057 336	953 426 686
MEA	1 223 230 192	1 302 647 752	1 307 915 835	1 261 056 891	1 368 594 720
NAF	274 893 639	291 278 229	292 003 404	295 825 223	323 298 425
NAM	2 289 515 455	2 279 984 584	2 314 350 651	2 277 920 661	2 241 993 845
PAO	491 866 308	523 507 970	552 224 132	565 783 177	580 132 168
PAS	361 258 737	358 455 183	376 101 452	386 337 973	412 137 437
SAS	484 445 067	503 113 092	524 385 940	555 615 559	595 343 350
SSA	457 271 738	474 454 932	481 453 073	485 890 738	510 652 906
WEU	1 075 203 046	1 071 682 217	1 064 075 470	1 071 429 081	1 049 996 135
Total	11 027 218 841	11 265 710 955	11 462 540 333	11 663 202 820	12 337 237 304
	2004	2005	2006	2007	2008
CAS	284 371 632	302 970 252	316 909 707	328 384 662	346 708 810
CPA	2 576 252 761	2 895 842 235	3 172 048 654	3 408 304 152	3 587 411 810
EEU	413 536 153	400 640 812	402 844 349	396 370 176	403 142 864
FSU	1 410 498 481	1 479 112 797	1 551 701 618	1 630 724 077	1 624 524 922
LAM	1 031 040 611	1 066 981 049	1 104 701 083	1 130 871 364	1 121 552 522
MEA	1 480 792 916	1 526 135 545	1 549 367 352	1 561 193 270	1 644 519 584
NAF	339 847 316	362 782 695	377 028 093	382 239 724	387 374 745
NAM	2 310 566 856	2 299 927 113	2 336 268 322	2 326 846 598	2 360 827 721
PAO	604 064 358	635 461 951	649 863 051	683 001 860	717 351 665
PAS	446 899 758	479 173 724	537 132 490	554 858 114	561 899 370
SAS	643 835 854	691 977 865	737 811 005	785 123 889	824 862 836
SSA	550 486 151	581 774 411	580 816 400	593 480 100	609 350 795
WEU	1 050 757 193	1 025 446 220	996 894 848	990 320 694	978 665 023
Total	13 142 950 040	13 748 226 669	14 313 386 972	14 771 718 680	15 168 192 667
	2009	2010	2011	2012	2013
CAS	318 617 571	338 471 845	361 658 083	371 210 481	370 440 153
CPA	3 690 453 473	4 065 870 173	4 440 098 393	4 517 574 635	4 651 192 998
EEU	381 015 033	378 227 910	408 107 344	397 835 564	376 624 620
FSU	1 548 485 383	1 656 671 195	1 703 388 893	1 718 503 027	1 716 462 557
LAM	1 067 014 561	1 129 491 822	1 171 342 165	1 185 383 263	1 172 115 596
MEA	1 562 961 992	1 673 115 924	1 809 950 720	1 855 144 239	1 851 388 339
NAF	367 604 086	371 797 046	297 616 352	336 625 864	308 260 028
NAM	2 250 922 145	2 308 826 382	2 383 076 474	2 388 274 640	2 439 003 862
PAO	737 627 761	808 810 817	824 397 700	872 603 718	967 050 682
PAS	606 719 221	661 264 718	742 776 963	788 696 869	835 710 990
SAS	887 883 195	891 532 522	877 403 553	878 380 373	890 147 559
SSA	596 108 035	637 874 503	631 412 893	653 421 564	651 945 460
WEU	917 119 298	920 936 901	889 699 879	883 748 258	857 298 115
Total	14 932 531 754	15 842 891 758	16 540 929 412	16 847 402 495	17 087 640 959

	2014	2015	2016	2017	2018
CAS	375 243 468	365 270 532	346 473 116	370 134 321	388 220 531
CPA	4 554 785 490	4 471 301 951	4 109 638 645	4 225 135 989	4 241 810 273
EEU	359 389 487	371 214 947	359 011 915	363 137 947	347 345 948
FSU	1 688 482 830	1 683 648 033	1 693 022 367	1 775 001 646	1 839 873 853
LAM	1 203 804 009	1 196 496 284	1 159 168 012	1 151 330 924	1 108 386 027
MEA	1 880 224 809	1 972 706 298	2 081 337 564	2 075 043 506	2 117 961 114
NAF	281 701 718	271 229 736	273 123 817	304 587 696	317 318 799
NAM	2 585 357 053	2 568 950 068	2 369 628 465	2 486 839 932	2 665 344 318
PAO	1 071 652 878	1 140 597 987	1 170 353 935	1 200 244 485	1 214 193 347
PAS	828 232 594	784 949 256	801 667 071	802 182 060	889 905 924
SAS	920 709 738	965 282 113	1 018 865 318	1 043 228 138	1 092 207 285
SSA	661 665 878	664 786 242	633 358 978	654 504 673	660 051 697
WEU	822 842 246	802 885 982	791 832 341	800 787 355	802 775 211
Total	17 234 092 198	17 259 319 429	16 807 481 544	17 252 158 672	17 685 394 327

### 6.1.3 Total Minerals Production, by Development Status of Producer Countries

(not including bauxite)  
in metr. t

	1984	1985	1986	1987	1988
Developed C.	3 149 213 568	3 248 042 606	3 221 526 218	3 287 603 881	3 317 831 500
Transition C.	0	0	0	0	0
Developing C.	6 159 605 329	6 375 833 067	6 639 237 875	6 755 557 059	7 002 266 379
Least Developed C.	24 113 334	21 501 920	33 277 829	36 753 728	46 914 805
Total	9 332 932 231	9 645 377 593	9 894 041 922	10 079 914 668	10 367 012 684
	1989	1990	1991	1992	1993
Developed C.	3 358 120 550	3 400 986 141	3 589 559 360	3 562 399 638	3 507 029 156
Transition C.	0	0	7 001 748	2 288 481 585	2 149 919 544
Developing C.	7 251 994 804	7 187 578 574	6 842 802 850	4 473 974 017	4 614 574 334
Least Developed C.	54 092 975	56 771 658	53 801 302	54 488 934	55 477 802
Total	10 664 208 329	10 645 336 373	10 493 165 260	10 379 344 174	10 327 000 836
	1994	1995	1996	1997	1998
Developed C.	3 638 962 969	3 680 354 448	3 845 630 378	3 890 709 483	3 864 997 612
Transition C.	1 950 421 115	1 969 276 084	1 798 315 604	1 836 450 533	1 781 251 715
Developing C.	4 770 108 338	5 026 079 122	5 169 011 188	5 305 451 127	5 384 210 184
Least Developed C.	63 668 409	73 663 963	77 014 278	79 392 750	82 552 605
Total	10 423 160 831	10 749 373 617	10 889 971 448	11 112 003 893	11 113 012 116

	1999	2000	2001	2002	2003
Developed C.	3 841 053 798	3 872 279 201	3 931 737 102	3 918 554 730	3 878 664 020
Transition C.	1 755 542 775	1 814 611 809	1 838 511 400	1 902 947 632	1 927 733 648
Developing C.	5 335 296 802	5 478 720 649	5 582 107 667	5 719 927 173	6 406 143 930
Least Developed C.	95 325 466	100 099 296	110 184 164	121 773 285	124 695 706
<b>Total</b>	<b>11 027 218 841</b>	<b>11 265 710 955</b>	<b>11 462 540 333</b>	<b>11 663 202 820</b>	<b>12 337 237 304</b>
	2004	2005	2006	2007	2008
Developed C.	4 170 845 031	4 147 738 760	4 155 425 713	4 249 438 469	4 297 784 707
Transition C.	1 797 566 299	1 877 798 218	2 010 943 137	2 005 525 237	2 029 581 432
Developing C.	7 026 510 977	7 550 001 723	7 969 965 698	8 322 146 871	8 635 416 920
Least Developed C.	148 027 733	172 687 968	177 052 424	194 608 103	205 409 608
<b>Total</b>	<b>13 142 950 040</b>	<b>13 748 226 669</b>	<b>14 313 386 972</b>	<b>14 771 718 680</b>	<b>15 168 192 667</b>
	2009	2010	2011	2012	2013
Developed C.	4 134 827 524	4 257 604 675	4 299 351 668	4 375 905 686	4 481 650 803
Transition C.	1 925 078 614	2 050 039 040	2 126 177 938	2 145 898 213	2 138 775 390
Developing C.	8 670 906 732	9 325 353 063	9 918 641 107	10 128 670 306	10 252 965 853
Least Developed C.	201 718 884	209 894 980	196 758 699	196 928 290	214 248 913
<b>Total</b>	<b>14 932 531 754</b>	<b>15 842 891 758</b>	<b>16 540 929 412</b>	<b>16 847 402 495</b>	<b>17 087 640 959</b>
	2014	2015	2016	2017	2018
Developed C.	4 699 129 278	4 735 879 601	4 526 753 287	4 689 612 306	4 850 907 454
Transition C.	2 105 450 825	2 100 560 695	2 096 557 029	2 197 026 062	2 277 718 165
Developing C.	10 210 709 302	10 211 745 405	9 970 667 443	10 150 922 780	10 358 647 460
Least Developed C.	218 802 793	211 133 728	213 503 785	214 597 524	198 121 248
<b>Total</b>	<b>17 234 092 198</b>	<b>17 259 319 429</b>	<b>16 807 481 544</b>	<b>17 252 158 672</b>	<b>17 685 394 327</b>

## 6.1.4 Total Minerals Production, by Country Groups and Economic Blocks

(not including bauxite)  
in metr. t

	1984	1985	1986	1987	1988
ACP	140 716 271	151 949 530	154 004 089	152 731 687	160 849 315
ASEAN	160 419 687	167 112 878	176 501 599	179 493 167	189 625 527
BRICS	0	0	0	0	0
CPE	1 081 847 083	1 148 153 791	1 187 484 674	1 231 117 592	1 296 654 410
EC	667 433 246	724 285 498	778 526 057	765 918 701	741 105 727
EFTA	86 501 629	90 794 412	94 085 678	101 824 013	108 301 907
G7	2 631 523 836	2 690 779 307	2 651 279 886	2 678 929 345	2 727 616 585
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	3 186 091 963	3 293 324 653	3 275 412 465	3 341 472 804	3 364 611 874
SADC	17 935 614	18 448 131	22 266 329	27 368 846	32 221 336

	1989	1990	1991	1992	1993
ACP	183 831 380	182 875 594	188 965 526	196 814 158	195 686 437
ASEAN	207 124 244	222 458 445	247 004 434	258 663 394	271 351 229
BRICS	0	0	0	0	0
CPE	1 387 686 508	1 420 853 527	1 441 513 723	1 479 667 606	1 529 318 070
EC	726 811 162	713 282 694	899 968 413	849 114 897	820 714 351
EFTA	127 328 938	131 079 908	138 476 527	155 206 374	160 887 230
G7	2 705 703 970	2 731 823 486	2 891 249 115	2 836 368 720	2 764 192 240
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	3 419 356 710	3 459 571 875	3 650 176 854	3 629 746 309	3 566 884 305
SADC	32 532 417	34 481 813	34 374 885	36 256 605	33 922 716
	1994	1995	1996	1997	1998
ACP	192 974 744	202 526 057	211 974 524	217 480 690	479 841 205
ASEAN	278 595 335	323 135 285	347 527 171	363 111 792	362 334 122
BRICS	0	0	0	0	0
CPE	1 612 181 758	1 749 064 603	1 821 095 313	1 781 602 297	1 735 461 549
EC	810 593 106	830 560 136	834 912 330	810 232 730	793 059 116
EFTA	177 909 140	167 198 965	191 230 993	196 755 754	190 974 345
G7	2 872 006 701	2 884 801 215	2 922 920 848	2 939 142 423	3 990 387 274
MERCOSUR	0	237 744 912	241 754 188	258 158 580	276 046 988
NAFTA	2 452 491 510	2 457 816 874	2 518 262 061	2 559 849 452	2 557 181 794
OECD	3 915 629 816	4 033 188 632	4 380 190 069	4 432 501 658	4 399 251 270
SADC	257 535 416	277 796 119	281 762 373	299 455 912	304 739 026
	1999	2000	2001	2002	2003
ACP	480 749 198	506 076 245	514 445 444	522 545 099	554 189 825
ASEAN	375 945 662	376 588 348	399 006 665	413 093 166	442 822 686
BRICS	0	0	3 447 415 909	3 691 204 059	4 172 130 953
CPE	1 671 418 619	1 667 544 199	1 723 375 951	1 874 246 913	2 264 439 009
EC	794 931 157	785 865 808	775 370 891	783 879 948	761 445 669
EFTA	194 749 270	206 691 249	212 922 426	218 397 044	221 357 270
G7	3 951 818 633	3 939 431 188	3 960 244 064	3 970 639 484	3 964 175 013
MERCOSUR	282 748 724	305 879 670	301 536 799	318 735 895	332 243 088
NAFTA	2 521 000 546	2 513 474 551	2 550 124 145	2 514 177 971	2 490 503 111
OECD	4 362 688 500	4 388 136 623	4 445 999 259	4 422 408 790	4 395 898 800
SADC	305 753 050	305 765 038	307 466 314	319 218 257	328 807 074
	2004	2005	2006	2007	2008
ACP	596 767 663	631 195 589	647 175 854	664 370 658	678 951 747
ASEAN	491 746 072	529 523 216	591 309 381	612 388 653	616 351 946
BRICS	4 608 123 255	5 040 908 677	5 431 733 402	5 806 543 505	6 015 480 331
CPE	2 578 938 575	2 898 313 380	3 174 769 557	3 410 693 615	3 590 107 096
EC	1 042 906 484	1 005 218 960	968 550 091	1 033 248 774	1 009 031 289
EFTA	223 187 755	214 901 567	208 170 789	200 006 268	203 721 928
G7	4 079 894 038	4 101 051 252	4 169 749 885	4 219 588 817	4 222 442 286
MERCOSUR	361 091 110	384 188 065	628 913 827	652 236 026	646 652 940
NAFTA	2 563 242 037	2 554 816 554	2 588 530 179	2 575 526 144	2 593 592 131
OECD	4 489 183 784	4 481 538 328	4 496 838 479	4 498 505 401	4 535 240 827
SADC	341 465 580	365 950 912	367 087 253	384 621 611	403 968 407

	2009	2010	2011	2012	2013
ACP	668 270 918	710 775 014	694 320 377	706 511 731	709 878 599
ASEAN	668 821 300	725 084 679	808 268 477	851 827 674	899 304 181
BRICS	6 072 429 645	6 591 031 941	7 003 064 335	7 416 439 250	7 549 085 123
CPE	3 692 365 651	4 067 891 645	4 442 117 199	4 519 418 048	4 652 497 998
EC	940 222 481	939 983 687	942 925 955	921 868 014	887 927 500
EFTA	200 145 508	193 287 487	182 613 943	187 123 786	179 012 688
G7	4 019 094 941	4 165 484 883	4 264 370 102	4 268 631 183	4 301 528 349
MERCOSUR	594 891 174	640 392 344	653 336 639	655 380 189	635 769 353
NAFTA	2 474 749 087	2 535 183 425	2 610 192 275	2 619 047 005	2 668 539 153
OECD	4 360 004 541	4 546 622 510	4 620 850 687	4 670 522 219	4 786 482 585
SADC	397 770 207	412 907 945	405 408 384	424 111 445	430 040 805
	2014	2015	2016	2017	2018
ACP	722 377 484	724 089 096	684 883 070	706 718 509	714 101 776
ASEAN	890 212 641	852 391 110	872 653 361	873 156 890	968 111 127
BRICS	7 511 201 390	7 495 346 504	7 169 372 457	7 434 386 088	7 556 782 044
CPE	4 556 490 161	4 468 605 441	4 098 730 797	4 213 693 380	4 227 766 416
EC	852 447 523	827 524 845	785 195 765	796 400 381	771 995 832
EFTA	180 194 890	189 222 830	190 435 921	193 960 527	186 587 401
G7	2 949 221 064	2 926 353 607	2 715 375 774	2 830 978 819	3 007 549 435
MERCOSUR	663 915 125	686 315 147	667 288 247	678 880 718	642 800 861
NAFTA	2 807 531 577	2 768 204 778	2 563 470 217	2 663 672 482	2 837 772 435
OECD	4 992 010 435	4 997 185 507	4 799 282 316	4 941 713 776	5 124 986 802
SADC	441 959 830	434 744 688	423 095 104	437 819 241	438 156 161

### 6.1.5 Total Minerals Production, by Political Stability of Producer Countries

(not including bauxite)  
in metr. t

	1996	1997	1998	1999	2000
Stable	93 988 822	86 660 123	104 278 704	101 088 230	385 581 451
Fair	4 721 944 557	4 741 143 128	4 825 267 334	4 809 217 346	5 306 450 738
Unstable	5 306 531 222	5 466 715 594	5 511 495 328	5 375 167 667	4 792 195 320
Extreme Unstable	767 506 847	817 485 048	671 970 750	741 745 598	781 483 446
Total	10 889 971 448	11 112 003 893	11 113 012 116	11 027 218 841	11 265 710 955
	2001	2002	2003	2004	2005
Stable	355 091 757	349 514 335	19 634 161	47 937 763	244 572 994
Fair	5 249 748 257	4 893 259 593	5 914 450 253	5 162 932 146	5 086 964 811
Unstable	5 039 266 710	5 415 385 038	4 865 275 853	4 972 808 440	6 326 876 178
Extreme Unstable	818 433 609	1 005 043 854	1 537 877 037	2 957 912 599	2 088 403 889
Total	11 462 540 333	11 663 202 820	12 337 237 304	13 141 590 948	13 746 817 872

	2006	2007	2008	2009	2010
Stable	237 581 857	24 936 013	209 989 308	218 278 364	212 612 969
Fair	5 379 385 278	5 836 370 186	5 697 877 632	5 199 391 420	5 586 762 679
Unstable	7 830 950 471	8 372 698 567	8 425 340 392	7 552 565 435	7 883 912 139
Extreme Unstable	865 469 366	537 713 914	834 985 335	1 962 296 535	2 159 603 971
<b>Total</b>	<b>14 313 386 972</b>	<b>14 771 718 680</b>	<b>15 168 192 667</b>	<b>14 932 531 754</b>	<b>15 842 891 758</b>
	2011	2012	2013	2014	2015
Stable	195 766 480	205 844 512	198 458 622	36 356 565	460 724 497
Fair	5 453 863 085	5 530 437 322	5 349 850 144	5 933 181 720	5 171 780 607
Unstable	8 848 805 026	9 064 331 693	10 749 039 936	10 650 755 881	10 897 871 604
Extreme Unstable	2 042 494 821	2 046 788 968	790 292 257	613 798 032	728 942 721
<b>Total</b>	<b>16 540 929 412</b>	<b>16 847 402 495</b>	<b>17 087 640 959</b>	<b>17 234 092 198</b>	<b>17 259 319 429</b>
	2016	2017	2018	2019	2020
Stable	456 905 271	12 495 226	11 829 665		
Fair	5 196 681 035	5 832 590 034	6 236 690 095		
Unstable	10 367 324 589	10 455 982 059	10 106 605 457		
Extreme Unstable	786 570 649	951 091 353	1 330 269 110		
<b>Total</b>	<b>16 807 481 544</b>	<b>17 252 158 672</b>	<b>17 685 394 327</b>		

## 6.1.6 Total Minerals Production, by Groups of Commodities

(not including bauxite)  
in metr. t

	1984	1985	1986	1987	1988
Iron and Ferro-Alloys	463 653 286	510 052 413	514 514 946	527 743 082	545 104 841
Non-Ferrous Metals	35 087 000	35 283 593	35 137 320	36 716 648	37 773 116
Precious Metals	14 609	15 039	14 972	15 754	16 744
Industrial Minerals	460 034 310	468 017 624	478 274 132	493 253 351	505 107 009
Mineral Fuels	8 374 143 026	8 632 008 924	8 866 100 552	9 022 185 833	9 279 010 974
<b>Total</b>	<b>9 332 932 231</b>	<b>9 645 377 593</b>	<b>9 894 041 922</b>	<b>10 079 914 668</b>	<b>10 367 012 684</b>
	1989	1990	1991	1992	1993
Iron and Ferro-Alloys	563 035 654	553 138 430	554 426 795	518 284 783	527 291 941
Non-Ferrous Metals	39 458 579	39 160 549	39 134 364	39 714 725	39 121 612
Precious Metals	17 189	17 418	17 000	17 352	16 581
Industrial Minerals	508 179 916	495 138 252	473 677 878	465 725 915	453 328 449
Mineral Fuels	9 553 516 991	9 557 881 724	9 425 909 223	9 355 601 399	9 307 242 253
<b>Total</b>	<b>10 664 208 329</b>	<b>10 645 336 373</b>	<b>10 493 165 260</b>	<b>10 379 344 174</b>	<b>10 327 000 836</b>



	1994	1995	1996	1997	1998
Iron and Ferro-Alloys	546 406 670	576 942 940	564 348 633	590 618 807	593 363 681
Non-Ferrous Metals	38 758 665	40 425 748	42 594 188	44 044 353	45 872 395
Precious Metals	15 937	16 863	17 370	18 567	19 575
Industrial Minerals	476 143 258	492 927 854	501 285 907	517 765 053	504 192 828
Mineral Fuels	9 361 836 301	9 639 060 212	9 781 725 350	9 959 557 113	9 969 563 637
<b>Total</b>	<b>10 423 160 831</b>	<b>10 749 373 617</b>	<b>10 889 971 448</b>	<b>11 112 003 893</b>	<b>11 113 012 116</b>
	1999	2000	2001	2002	2003
Iron and Ferro-Alloys	582 308 731	623 791 294	592 856 445	639 547 480	684 679 483
Non-Ferrous Metals	47 973 861	49 999 022	50 557 421	51 770 442	54 905 060
Precious Metals	19 871	21 041	21 628	21 769	21 737
Industrial Minerals	532 203 051	538 989 887	537 710 347	543 554 752	591 387 895
Mineral Fuels	9 864 713 327	10 052 909 711	10 281 394 492	10 428 308 377	11 006 243 129
<b>Total</b>	<b>11 027 218 841</b>	<b>11 265 710 955</b>	<b>11 462 540 333</b>	<b>11 663 202 820</b>	<b>12 337 237 304</b>
	2004	2005	2006	2007	2008
Iron and Ferro-Alloys	780 882 887	851 919 547	956 400 820	1 058 323 441	1 114 769 182
Non-Ferrous Metals	57 519 328	60 527 038	63 650 922	68 904 344	71 643 504
Precious Metals	22 637	23 216	22 932	23 447	24 044
Industrial Minerals	635 136 814	659 134 206	681 360 873	695 555 444	702 268 218
Mineral Fuels	11 669 388 374	12 176 622 662	12 611 951 425	12 948 912 004	13 279 487 719
<b>Total</b>	<b>13 142 950 040</b>	<b>13 748 226 669</b>	<b>14 313 386 972</b>	<b>14 771 718 680</b>	<b>15 168 192 667</b>
	2009	2010	2011	2012	2013
Iron and Ferro-Alloys	1 097 774 108	1 277 153 011	1 384 862 240	1 405 482 008	1 525 783 418
Non-Ferrous Metals	68 786 776	74 870 944	78 340 806	85 359 370	90 057 821
Precious Metals	25 518	26 727	26 914	28 217	29 527
Industrial Minerals	676 347 825	716 655 879	744 214 707	756 828 414	785 205 816
Mineral Fuels	13 089 597 527	13 774 185 197	14 333 484 745	14 599 704 486	14 686 564 377
<b>Total</b>	<b>14 932 531 754</b>	<b>15 842 891 758</b>	<b>16 540 929 412</b>	<b>16 847 402 495</b>	<b>17 087 640 959</b>
	2014	2015	2016	2017	2018
Iron and Ferro-Alloys	1 613 990 453	1 611 395 797	1 613 531 854	1 663 301 489	1 560 595 082
Non-Ferrous Metals	92 276 855	96 442 234	97 076 506	99 196 598	101 909 860
Precious Metals	30 675	31 567	31 638	30 542	31 501
Industrial Minerals	788 513 263	792 033 303	793 537 220	802 506 442	811 299 056
Mineral Fuels	14 739 280 952	14 759 416 528	14 303 304 326	14 687 123 601	15 211 558 828
<b>Total</b>	<b>17 234 092 198</b>	<b>17 259 319 429</b>	<b>16 807 481 544</b>	<b>17 252 158 672</b>	<b>17 685 394 327</b>

## 6.1.7 Mineral Fuels

### 6.1.7.1 Total Production in metr. t

	1984	1985	1986	1987	1988
Steam Coal	2 533 847 298	2 657 655 703	2 736 201 444	2 807 598 921	2 875 175 476
Coking Coal	576 335 300	581 727 250	588 503 000	591 240 000	623 772 000
Lignite	1 116 926 583	1 169 139 745	1 198 670 590	1 221 212 296	1 189 135 195
Petroleum Total	2 769 993 046	2 793 543 482	2 886 611 912	2 882 336 628	3 006 733 425
Petroleum Oilsands	8 347 400	10 814 300	13 852 000	14 766 100	16 470 800
Nat. Gas	1 344 622 400	1 397 570 400	1 424 738 400	1 489 236 000	1 555 657 600
Oil shales	32 357 240	32 310 047	31 310 014	30 492 137	28 466 360
Uranium	61 159	62 297	65 192	69 851	70 918
<b>Total</b>	<b>8 374 143 026</b>	<b>8 632 008 924</b>	<b>8 866 100 552</b>	<b>9 022 185 833</b>	<b>9 279 010 974</b>
	1989	1990	1991	1992	1993
Steam Coal	2 946 751 117	2 966 282 356	2 930 112 414	2 950 616 811	2 882 685 358
Coking Coal	623 715 700	637 815 000	600 629 000	526 685 580	511 572 000
Lignite	1 257 275 539	1 165 582 805	1 080 729 202	1 014 076 878	957 904 090
Petroleum Total	3 086 942 550	3 131 910 432	3 129 640 103	3 176 035 876	3 195 252 081
Petroleum Oilsands	16 630 400	17 121 500	17 367 800	18 145 400	18 718 900
Nat. Gas	1 610 295 200	1 629 576 000	1 659 031 200	1 663 308 800	1 733 435 200
Oil shales	28 468 938	26 655 905	25 718 314	24 835 014	26 355 156
Uranium	67 947	59 226	48 990	42 440	38 368
<b>Total</b>	<b>9 553 516 991</b>	<b>9 557 881 724</b>	<b>9 425 909 223</b>	<b>9 355 601 399</b>	<b>9 307 242 253</b>
	1994	1995	1996	1997	1998
Steam Coal	3 011 660 645	3 147 120 817	3 256 100 430	3 273 956 374	3 225 017 149
Coking Coal	522 679 000	551 083 000	520 918 000	529 874 000	495 575 000
Lignite	920 213 062	904 348 282	882 773 312	883 849 311	861 735 746
Petroleum Total	3 166 176 388	3 224 994 380	3 247 662 123	3 380 638 628	3 468 163 084
Petroleum Oilsands	19 742 000	21 302 400	22 164 200	26 268 900	29 385 500
Nat. Gas	1 718 791 200	1 794 813 600	1 857 264 800	1 873 945 600	1 903 751 200
Oil shales	22 278 784	16 659 899	16 965 358	17 251 305	15 281 589
Uranium	37 222	40 234	41 327	41 895	39 869
<b>Total</b>	<b>9 361 836 301</b>	<b>9 639 060 212</b>	<b>9 781 725 350</b>	<b>9 959 557 113</b>	<b>9 969 563 637</b>
	1999	2000	2001	2002	2003
Steam Coal	3 163 284 905	3 169 221 186	3 335 095 533	3 440 490 303	3 791 073 723
Coking Coal	480 835 000	475 326 000	475 450 000	478 070 000	527 816 120
Lignite	848 370 347	862 776 576	890 548 501	891 817 623	878 293 662
Petroleum Total	3 402 986 776	3 529 482 643	3 532 721 076	3 508 381 650	3 652 115 156
Petroleum Oilsands	31 572 300	41 976 000	47 782 900	60 145 400	63 122 200
Nat. Gas	1 955 897 600	2 001 888 800	2 033 309 600	2 094 767 200	2 139 864 800
Oil shales	13 301 711	14 172 936	14 227 015	14 739 077	17 037 785
Uranium	36 988	41 570	42 767	42 524	41 883
<b>Total</b>	<b>9 864 713 327</b>	<b>10 052 909 711</b>	<b>10 281 394 492</b>	<b>10 428 308 377</b>	<b>11 006 243 129</b>

	2004	2005	2006	2007	2008
Steam Coal	4 127 007 942	4 387 272 606	4 664 879 497	4 848 257 117	5 018 892 543
Coking Coal	600 995 201	680 609 428	716 826 531	794 213 709	801 224 094
Lignite	894 070 195	934 846 769	949 111 979	957 520 005	983 195 678
Petroleum Total	3 833 179 548	3 885 743 370	3 909 012 753	3 890 917 880	3 932 967 891
Petroleum Oilsands	79 595 200	77 093 300	85 577 100	90 068 000	90 885 200
Nat. Gas	2 198 060 800	2 271 576 800	2 355 994 400	2 439 448 800	2 525 124 000
Oil shales	16 027 336	16 524 485	16 079 794	18 505 726	18 031 734
Uranium	47 352	49 204	46 471	48 767	51 779
<b>Total</b>	<b>11 669 388 374</b>	<b>12 176 622 662</b>	<b>12 611 951 425</b>	<b>12 948 912 004</b>	<b>13 279 487 719</b>
	2009	2010	2011	2012	2013
Steam Coal	5 148 155 149	5 397 763 695	5 743 171 410	5 835 163 988	5 895 350 486
Coking Coal	824 599 040	943 566 350	1 018 552 520	1 025 682 310	1 084 780 600
Lignite	833 407 466	847 584 916	891 323 386	894 761 867	856 633 855
Petroleum Total	3 826 941 357	3 916 808 584	3 945 052 908	4 052 597 560	4 061 336 347
Petroleum Oilsands	97 174 300	104 414 900	109 641 400	121 784 700	127 723 100
Nat. Gas	2 440 546 400	2 649 593 600	2 715 816 000	2 771 727 200	2 767 016 800
Oil shales	15 888 442	18 805 092	19 505 132	19 701 365	21 375 653
Uranium	59 673	62 960	63 389	70 196	70 636
<b>Total</b>	<b>13 089 597 527</b>	<b>13 774 185 197</b>	<b>14 333 484 745</b>	<b>14 599 704 486</b>	<b>14 686 564 377</b>
	2014	2015	2016	2017	2018
Steam Coal	5 823 508 359	5 669 780 899	5 254 022 126	5 502 503 163	5 791 782 824
Coking Coal	1 118 855 146	1 090 040 710	1 041 768 657	1 018 678 790	1 032 331 612
Lignite	818 877 727	821 961 221	818 488 535	826 418 620	808 179 327
Petroleum Total	4 131 311 595	4 285 705 119	4 296 012 155	4 299 586 996	4 388 772 607
Petroleum Oilsands	127 943 100	148 574 300	149 572 400	158 202 900	165 081 000
Nat. Gas	2 824 760 800	2 871 349 600	2 876 256 000	3 017 308 000	3 167 632 800
Oil shales	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350
Uranium	67 829	72 341	74 807	69 959	65 308
<b>Total</b>	<b>14 739 280 952</b>	<b>14 759 416 528</b>	<b>14 303 304 326</b>	<b>14 687 123 601</b>	<b>15 211 558 828</b>

### 6.1.7.2 Total Production in tons of coal equivalent (TCE)

	1984	1985	1986	1987	1988
Steam Coal	1 984 545 701	2 079 192 762	2 141 039 784	2 196 329 711	2 242 644 959
Coking Coal	439 443 133	444 515 598	447 335 300	449 367 430	475 163 000
Lignite	360 814 032	378 669 882	388 743 522	396 852 134	387 609 598
Petroleum Total	3 955 550 070	3 989 180 092	4 122 081 810	4 115 976 705	4 293 615 331
Petroleum Oilsands	11 920 087	15 442 820	19 780 656	21 085 991	23 520 302
Nat. Gas	1 820 618 730	1 892 310 322	1 929 095 794	2 016 425 544	2 106 360 390
Oilshales	9 804 244	9 789 944	9 486 934	9 239 118	8 625 307
Uranium	1 009 123 500	1 027 900 500	1 075 668 000	1 152 541 500	1 170 147 000
<b>Total</b>	<b>9 579 899 410</b>	<b>9 821 559 100</b>	<b>10 113 451 144</b>	<b>10 336 732 142</b>	<b>10 684 165 585</b>

	1989	1990	1991	1992	1993
Steam Coal	2 297 280 349	2 315 215 405	2 288 562 315	2 317 552 470	2 258 599 130
Coking Coal	476 202 417	491 603 770	464 654 390	420 806 373	410 518 480
Lignite	408 804 798	380 691 779	351 909 015	350 948 625	329 597 560
Petroleum Total	4 408 153 961	4 472 368 097	4 469 126 067	4 535 379 231	4 562 819 972
Petroleum Oilsands	23 748 211	24 449 502	24 801 218	25 911 631	26 730 589
Nat. Gas	2 180 339 701	2 206 445 904	2 246 328 245	2 252 120 115	2 347 071 261
Oilshales	8 626 088	8 076 739	7 792 649	7 525 009	7 985 612
Uranium	1 121 125 500	977 229 000	808 335 000	700 260 000	633 072 000
<b>Total</b>	<b>10 900 532 814</b>	<b>10 851 630 694</b>	<b>10 636 707 681</b>	<b>10 584 591 823</b>	<b>10 549 664 015</b>
	1994	1995	1996	1997	1998
Steam Coal	2 358 469 294	2 464 103 157	2 546 357 455	2 565 416 915	2 533 580 943
Coking Coal	421 238 500	440 288 110	418 180 290	425 195 980	397 855 170
Lignite	315 782 790	312 043 680	301 350 828	303 744 060	292 480 864
Petroleum Total	4 521 299 882	4 605 291 975	4 637 661 512	4 827 551 961	4 952 536 884
Petroleum Oilsands	28 191 576	30 419 827	31 650 478	37 511 989	41 962 494
Nat. Gas	2 327 243 285	2 430 177 614	2 514 736 539	2 537 322 342	2 577 679 125
Oilshales	6 750 472	5 047 949	5 140 503	5 227 145	4 630 321
Uranium	614 163 000	663 861 000	681 895 500	691 267 500	657 838 500
<b>Total</b>	<b>10 564 947 223</b>	<b>10 920 813 485</b>	<b>11 105 322 627</b>	<b>11 355 725 903</b>	<b>11 416 601 807</b>
	1999	2000	2001	2002	2003
Steam Coal	2 485 286 615	2 486 362 511	2 617 453 259	2 690 425 262	2 940 149 416
Coking Coal	387 598 740	382 944 550	382 572 830	382 254 240	419 362 296
Lignite	289 654 797	293 377 469	303 758 682	302 211 847	297 611 763
Petroleum Total	4 859 465 116	5 040 101 214	5 044 725 697	5 009 968 996	5 215 220 443
Petroleum Oilsands	45 085 244	59 941 728	68 233 981	85 887 631	90 138 502
Nat. Gas	2 648 285 350	2 710 557 435	2 753 101 198	2 836 314 789	2 897 376 939
Oilshales	4 030 418	4 294 400	4 310 786	4 465 940	5 162 449
Uranium	610 302 000	685 905 000	705 655 500	701 646 000	691 069 500
<b>Total</b>	<b>11 284 623 036</b>	<b>11 603 542 579</b>	<b>11 811 577 952</b>	<b>11 927 287 074</b>	<b>12 465 952 806</b>
	2004	2005	2006	2007	2008
Steam Coal	3 192 583 057	3 384 032 805	3 584 539 581	3 714 753 241	3 837 647 360
Coking Coal	473 987 057	533 191 273	557 593 175	618 648 219	624 698 083
Lignite	304 057 870	319 852 059	326 631 993	329 756 850	339 373 308
Petroleum Total	5 473 780 395	5 548 841 532	5 582 070 211	5 556 230 733	5 616 278 148
Petroleum Oilsands	113 661 946	110 089 232	122 204 099	128 617 104	129 784 066
Nat. Gas	2 976 174 323	3 075 714 987	3 190 016 418	3 303 013 675	3 419 017 896
Oilshales	4 856 283	5 006 919	4 872 178	5 607 235	5 463 615
Uranium	781 308 000	811 866 000	766 771 500	804 655 500	854 353 500
<b>Total</b>	<b>13 206 746 985</b>	<b>13 678 505 575</b>	<b>14 012 495 056</b>	<b>14 332 665 453</b>	<b>14 696 831 910</b>

	2009	2010	2011	2012	2013
Steam Coal	3 921 037 917	4 093 694 167	4 340 393 395	4 398 451 148	4 436 711 206
Coking Coal	635 657 384	732 783 510	785 922 232	791 664 822	836 729 076
Lignite	280 791 804	288 408 437	303 452 261	302 947 507	289 922 083
Petroleum Total	5 464 872 258	5 593 202 658	5 633 535 553	5 787 109 316	5 799 588 304
Petroleum Oilsands	138 764 900	149 104 477	156 567 919	173 908 552	182 388 587
Nat. Gas	3 304 499 826	3 587 549 734	3 677 214 864	3 752 918 629	3 746 540 747
Oilshales	4 814 198	5 697 943	5 910 055	5 969 514	6 476 823
Uranium	984 604 500	1 038 840 000	1 045 918 500	1 158 234 000	1 165 494 000
<b>Total</b>	<b>14 596 277 887</b>	<b>15 340 176 449</b>	<b>15 792 346 860</b>	<b>16 197 294 936</b>	<b>16 281 462 239</b>
	2014	2015	2016	2017	2018
Steam Coal	4 392 293 381	4 272 193 203	3 952 766 186	4 135 295 169	4 332 760 462
Coking Coal	864 214 794	843 525 834	807 453 340	795 224 789	805 428 505
Lignite	278 778 853	280 811 916	281 164 329	282 969 687	275 695 200
Petroleum Total	5 899 512 958	6 119 986 910	6 134 705 357	6 139 810 230	6 267 167 283
Petroleum Oilsands	182 702 747	212 164 100	213 589 387	225 913 741	235 735 668
Nat. Gas	3 824 726 123	3 887 807 358	3 894 450 624	4 085 435 032	4 288 974 811
Oilshales	6 635 547	6 213 511	5 054 660	6 835 096	6 906 688
Uranium	1 119 178 500	1 193 626 500	1 234 315 500	1 154 323 500	1 077 582 000
<b>Total</b>	<b>16 385 340 156</b>	<b>16 604 165 232</b>	<b>16 309 909 996</b>	<b>16 599 893 503</b>	<b>17 054 514 949</b>

## 6.1.8 Total Minerals Production 2018, by Country

### 6.1.8.1 by Production in metr. t

Country	Total (incl. Bauxite)	Iron, Ferro-Alloys	Non-Ferrous Metals	Precious Metals	Industrial Minerals	Mineral-Fuels
China	4 154 188 674	209 544 073	43 904 599	3 979	176 034 200	3 654 701 823
United States	2 176 153 992	31 344 490	3 244 767	1 178	94 058 000	2 047 105 857
Russia	1 665 722 615	59 027 126	4 900 906	1 746	37 204 313	1 557 531 524
Australia	1 292 318 260	566 692 049	4 174 886	1 567	20 178 751	605 323 414
India	1 037 922 511	126 375 000	3 716 578	654	51 785 400	832 851 199
Saudi Arabia	693 522 495	27 700	1 018 189	19	15 009 887	672 736 010
Indonesia	679 090 280	1 172 350	1 007 640	444	6 037 956	659 848 040
Brazil	505 872 027	294 876 359	1 233 696	131	17 298 981	160 462 860
Canada	489 590 026	32 998 946	3 779 666	584	33 800 005	419 010 825
Iran	460 977 323	24 892 695	880 825	58	20 325 202	414 011 860
South Africa	325 326 897	62 495 977	824 147	400	2 824 372	259 182 001
Kazakhstan	266 598 710	15 700 358	1 283 021	1 069	5 562 467	237 947 595
Iraq	238 227 710	0	0	0	1 688 620	236 539 090
United Arab Emirates	237 379 950	0	2 640 000	0	5 300 000	229 439 950
Qatar	216 107 400	0	616 000	0	1 767 000	213 724 400
Germany	212 196 016	82 900	529 720	0	34 670 103	176 913 293
Norway	184 980 509	1 306 440	1 295 380	0	278 889	182 099 800
Mexico	172 428 117	8 642 143	1 592 061	7 384	27 593 171	134 593 358
Kuwait	151 211 100	0	0	0	738 000	150 473 100
Algeria	146 755 794	381 200	500	0	3 069 494	143 304 600
Turkey	142 592 283	10 743 385	434 060	229	38 281 843	92 454 628
Colombia	138 062 103	300 846	9 918	52	1 097 454	136 644 790

Nigeria	136 888 431	63 397	52 755	10	96 590	136 675 679
Poland	133 449 232	660	484 887	1 265	6 293 580	126 668 840
Venezuela	108 127 409	1 950 000	64 700	9	1 346 800	104 673 900
United Kingdom	93 556 990	890	48 320	0	6 863 800	86 643 980
Malaysia	93 166 200	2 845 317	763 954	5	725 125	88 242 114
Ukraine	91 303 405	39 952 950	7	0	6 156 558	45 193 890
Oman	87 757 085	364 800	379 775	0	9 866 510	77 146 000
Egypt	83 999 045	270 000	267 100	15	3 912 000	79 549 930
Angola	76 441 102	0	0	0	142 002	76 299 100
Vietnam	74 062 944	3 416 581	712 852	1	2 979 510	64 024 000
Thailand	69 440 579	1 985	47	0	14 061 727	55 376 820
Turkmenistan	67 178 200	0	0	0	575 200	66 603 000
Argentina	60 871 845	40 924	517 516	1 082	3 198 423	57 113 900
Guinea	59 573 733	0	0	26	0	0
Libya	55 697 760	0	0	0	313 000	55 384 760
Uzbekistan	55 598 598	847	99 286	251	554 114	54 944 100
Azerbaijan	54 515 097	0	47 040	13	288 144	54 179 900
Mongolia	50 280 088	3 489 230	365 045	86	556 227	45 869 500
Pakistan	49 104 146	296 310	44 358	0	6 647 815	41 969 618
Czech Republic	47 936 240	0	0	0	4 387 000	43 549 240
Greece	42 458 538	36 630	224 325	38	3 852 440	36 785 746
Serbia	39 120 817	0	69 764	10	127 811	38 923 232
Romania	38 910 791	5 020	292 505	19	3 166 697	35 446 550
Peru	37 656 239	9 579 107	4 240 767	4 306	6 747 972	17 084 087
Netherlands	37 336 046	0	90 600	0	6 750 546	30 494 900
Bulgaria	36 410 785	1 000	157 757	50	4 400 100	31 851 878
Trinidad and Tobago	33 166 590	0	0	0	0	33 166 590
Chile	32 506 037	9 003 343	5 898 001	1 407	14 171 479	3 431 807
Ecuador	26 121 473	0	42 200	8	46 065	26 033 200
Bangladesh	24 946 926	0	0	0	1 490 000	23 456 926
Estonia	21 883 000	0	0	0	0	21 883 000
Mozambique	20 774 121	535 764	571 541	1	241 720	19 415 183
Spain	20 587 558	730	652 157	92	17 402 463	2 532 116
Philippines	20 099 999	366 515	70 033	51	2 465 260	17 198 140
Bolivia	18 984 951	42 944	657 634	1 223	276 077	18 007 073
Sweden	18 967 143	18 405 000	533 691	452	28 000	0
Korea, North	18 457 850	604 970	80 200	80	873 600	16 899 000
Bosnia-Herzegovina	17 573 802	704 050	147 928	0	1 582 813	14 378 767
Congo, Rep.	17 463 378	10 800	18 478	0	0	17 434 100
Laos	17 310 043	59 500	160 083	43	1 044 146	16 046 271
Bahrain	15 583 469	0	1 011 101	0	139 368	14 433 000
Italy	14 998 690	0	5	0	5 956 085	9 042 600
Myanmar	14 868 717	225 550	272 980	0	508 687	13 861 500
Brunei	14 585 900	0	0	0	0	14 585 900
Equatorial Guinea	14 084 840	0	0	0	0	14 084 840
France	13 921 914	0	390 043	0	12 627 871	834 000
Morocco	13 077 715	88 932	141 988	155	12 772 200	74 440
Gabon	13 037 600	2 982 800	0	0	0	10 054 800
Israel	12 658 825	0	0	0	3 769 800	8 889 025
Ghana	12 581 932	1 593 110	42 867	153	330 000	9 604 500
Belarus	12 088 993	0	0	0	10 250 193	1 838 800
New Zealand	10 221 173	2 100 000	340 678	16	155 851	7 624 628
Hungary	10 136 806	0	0	0	60 000	10 072 606
Jamaica	10 115 228	0	0	0	57 000	0
Denmark	9 743 954	0	0	0	759 767	8 984 187
Japan	7 601 507	0	3 497	10	4 983 400	2 614 600
Kosovo	7 182 857	4 790	8 300	0	0	7 169 767
Mauritania	7 119 846	6 961 700	28 137	9	130 000	0
Tunisia	6 955 830	145 800	0	0	3 222 800	3 587 230
South Sudan	6 438 800	0	0	0	0	6 438 800
Chad	6 347 000	0	0	0	0	6 347 000
Korea, South	5 491 822	346 781	11 338	7	3 671 596	1 462 100

Austria	5 360 664	898 068	0	0	3 005 404	1 457 192
North Macedonia	5 290 590	0	79 738	20	264 346	4 946 486
Cameroon	4 681 581	0	85 481	0	0	4 596 100
Papua New Guinea	4 405 236	78 919	96 277	140	0	4 229 900
Sudan	4 393 855	16 960	0	95	544 000	3 832 800
Jordan	4 359 530	0	0	0	4 284 130	75 400
Syria	3 952 600	0	0	0	109 700	3 842 900
Zimbabwe	3 813 814	420 853	12 237	63	33 161	3 347 500
Cuba	3 706 860	65 800	67 630	0	297 430	3 276 000
Cote d'Ivoire	3 617 085	361 660	0	25	0	3 155 400
Slovenia	3 314 546	0	80 511	0	2 131	3 231 904
Slovakia	3 280 450	0	174 007	1	1 519 980	1 586 462
Botswana	2 851 768	0	1 462	1	367 992	2 482 313
Ireland	2 796 455	0	148 454	1	200 000	2 448 000
Liberia	2 779 007	2 779 000	0	7	0	0
Kyrgyzstan	2 682 680	0	8 644	36	146 000	2 528 000
Afghanistan	2 663 105	2 000	0	0	94 105	2 567 000
Congo, D.R.	2 514 423	120 564	1 249 056	40	3	1 144 760
Tanzania	2 384 959	0	10 006	51	407 243	1 967 652
Finland	2 355 517	537 723	131 931	25	1 685 838	0
Tajikistan	2 266 543	0	288 130	16	46 603	1 931 794
Montenegro	2 116 677	0	52 613	0	0	1 595 900
Zambia	2 100 259	139 585	861 953	4	754 000	344 717
Sierra Leone	2 095 261	145 400	0	0	11 400	0
Croatia	1 956 223	0	0	0	228 347	1 716 100
Guyana	1 924 577	0	0	19	0	0
Albania	1 910 516	501 150	3 780	0	133 516	1 272 070
Yemen	1 818 000	0	0	0	100 000	1 718 000
Solomon Islands	1 646 200	0	0	0	0	0
Senegal	1 431 733	287 940	0	14	1 114 679	29 100
Namibia	1 307 765	17 530	129 101	11	1 154 609	6 514
Niger	1 052 319	0	0	6	0	1 052 313
Portugal	895 290	716	214 512	56	680 006	0
Switzerland	870 414	0	0	0	870 414	0
Bahamas	854 223	0	0	0	854 223	0
Suriname	818 426	0	0	26	0	818 400
Iceland	736 478	0	731 478	0	5 000	0
Cyprus	725 429	0	908	0	724 521	0
Guatemala	697 616	50 990	0	0	187 826	458 800
Bhutan	674 214	24 220	0	0	463 170	186 824
Madagascar	454 034	303 591	140	3	150 300	0
Eritrea	453 532	0	142 300	32	311 200	0
Taiwan	410 674	0	0	0	248 274	162 400
Kenya	404 204	347 150	0	0	57 054	0
Ethiopia	399 151	8 132	0	4	391 015	0
Togo	370 820	0	0	10	370 810	0
Moldova	352 500	0	0	0	352 500	0
Latvia	320 080	0	0	0	320 080	0
Armenia	318 820	5 422	75 874	22	237 502	0
Georgia	286 353	95 000	15 250	3	0	176 100
New Caledonia	219 995	219 995	0	0	0	0
Sri Lanka	215 849	35 670	0	0	180 179	0
Dominican Republic	144 899	19 214	12 626	199	112 860	0
Eswatini	144 375	0	0	0	0	144 375
Lithuania	139 990	0	0	0	93 960	46 030
Christmas Island	127 730	0	0	0	127 730	0
Nicaragua	120 360	0	0	19	120 341	0
Honduras	106 868	0	38 335	33	68 500	0
El Salvador	100 000	0	0	0	100 000	0
Burkina Faso	99 221	0	99 162	59	0	0
Fiji	57 961	0	0	1	0	0
Malawi	51 563	1 540	0	0	270	49 753

Barbados	41 170	0	0	0	0	41 170
Uganda	30 637	2 890	53	0	27 694	0
Cambodia	30 000	0	0	0	30 000	0
Nauru	23 000	0	0	0	23 000	0
Nepal	20 259	180	0	0	8 557	11 522
Panama	17 281	0	0	0	17 281	0
Uruguay	11 080	2 520	0	0	8 560	0
Paraguay	10 500	0	0	0	10 500	0
Rwanda	5 237	1 800	3 435	2	0	0
Costa Rica	3 976	0	0	4	3 972	0
Lebanon	3 000	0	0	0	3 000	0
Malta	1 600	0	0	0	1 600	0
Belgium	1 220	0	1 220	0	0	0
Cape Verde	1 000	0	0	0	1 000	0
Mauritius	1 000	0	0	0	1 000	0
Burundi	894	136	757	1	0	0
Benin	500	0	0	0	500	0
Mali	64	0	0	64	0	0
French Guiana	1	0	0	1	0	0
Total	18 020 356 712	1 560 595 082	101 909 860	31 501	811 299 056	15 211 558 828

### 6.1.8.2 by Value in Million USD (not included Diamonds)

Country	Total (incl. Bauxite)	Iron, Ferro-Alloys	Non-Ferrous Metals	Precious Metals	Industrial Minerals	Mineral-Fuels
China	653 259	26 313	106 240	18 277	21 719	478 401
United States	552 212	3 641	13 057	10 285	9 338	515 878
Russia	462 841	10 337	14 140	15 902	9 069	413 160
Saudi Arabia	319 960	2	2 432	550	1 040	315 780
Canada	183 528	5 876	10 754	8 758	12 300	145 840
Australia	164 280	50 241	15 707	13 417	2 628	79 121
Iran	151 298	3 186	3 442	335	1 736	142 569
India	142 831	29 902	8 616	385	6 087	97 076
South Africa	140 920	99 705	1 972	12 575	705	25 964
Iraq	119 817	0	0	0	77	119 740
Brazil	114 912	30 032	4 744	3 328	2 210	73 541
United Arab Emirates	106 167	0	5 565	0	371	100 231
Indonesia	104 963	7 274	6 519	5 672	743	84 391
Kazakhstan	103 476	27 487	5 767	4 580	832	64 610
Mexico	78 018	1 602	7 022	9 414	2 400	57 581
Kuwait	73 332	0	0	0	55	73 277
Qatar	60 963	0	1 299	0	124	59 540
Norway	60 794	208	2 731	0	27	57 828
Nigeria	56 692	193	278	408	9	55 804
Chile	46 029	2 267	38 852	2 204	2 257	449
Algeria	45 312	27	1	12	110	45 162
Venezuela	45 044	137	136	371	125	44 271
Angola	38 026	0	0	0	13	38 013
Peru	36 265	1 464	21 267	7 920	660	4 955
Colombia	34 725	583	65	1 466	76	32 535
Oman	34 262	3 875	801	0	102	29 485
United Kingdom	32 714	27	106	0	895	31 686
Malaysia	28 302	1 759	1 681	122	89	24 632
Libya	25 985	0	0	0	14	25 971
Egypt	25 246	19	563	599	356	23 709
Turkey	23 697	13 412	1 479	1 207	3 829	3 746
Azerbaijan	22 779	0	106	177	29	22 466



Argentina	21 982	13	1 394	2 898	315	17 362
Congo, D.R.	18 661	8 286	8 274	1 502	0	599
Vietnam	15 314	499	1 735	24	362	12 598
Ghana	14 521	3 532	90	6 081	40	4 745
Ecuador	14 124	0	276	335	5	13 509
Poland	13 580	9	2 848	660	613	9 450
Turkmenistan	13 497	0	0	0	56	13 441
Uzbekistan	12 967	23	427	3 691	130	8 696
Germany	12 462	6	1 128	0	5 423	5 906
Ukraine	11 780	4 600	4	0	684	6 493
Gabon	11 719	6 613	0	3	0	5 102
Thailand	10 812	6	1	0	424	10 381
Mongolia	9 525	327	2 177	875	153	5 993
Congo, Rep.	8 979	1	119	6	0	8 853
Philippines	8 695	4 981	460	862	238	2 154
Pakistan	8 583	442	172	0	535	7 429
Bolivia	7 718	47	2 175	1 890	97	3 507
Zimbabwe	7 466	4 646	112	2 334	12	362
Finland	7 224	6 036	558	445	184	0
Belarus	6 755	0	0	0	5 858	897
Zambia	6 301	421	5 629	165	53	34
Sudan	6 012	150	0	3 818	40	2 005
Albania	5 986	5 465	25	0	5	492
Trinidad and Tobago	5 886	0	0	0	0	5 886
Papua New Guinea	5 871	1 140	629	2 781	0	1 322
Netherlands	5 733	0	191	0	810	4 731
Myanmar	5 210	702	2 376	8	27	2 097
Equatorial Guinea	4 998	0	0	0	0	4 998
Bahrain	4 977	0	2 131	0	10	2 836
Romania	4 556	11	653	46	295	3 550
Mozambique	4 465	397	1 205	21	230	2 612
Brunei	4 119	0	0	0	0	4 119
Spain	3 963	22	2 280	127	1 376	158
Italy	3 719	0	1	0	653	3 064
Bangladesh	3 673	0	0	0	179	3 494
Sweden	3 637	1 288	1 801	545	3	0
Denmark	3 542	0	0	0	111	3 431
South Sudan	3 367	0	0	0	0	3 367
Chad	3 319	0	0	0	0	3 319
New Caledonia	3 109	3 109	0	0	0	0
Israel	3 029	0	0	0	1 758	1 271
Guinea	3 019	0	0	1 053	0	0
Cote d'Ivoire	2 919	860	0	998	0	1 059
Cuba	2 777	1 155	180	0	25	1 417
New Zealand	2 701	147	718	413	20	1 403
Korea, North	2 627	100	265	443	147	1 673
Estonia	2 517	0	0	0	0	2 517
Mali	2 485	0	0	2 485	0	0
Bulgaria	2 464	2	852	388	509	713
Burkina Faso	2 439	0	290	2 149	0	0
Greece	2 307	443	492	133	275	912
France	2 209	0	833	0	959	414
Cameroon	2 156	0	180	18	0	1 958
Czech Republic	2 114	0	0	0	646	1 467
Morocco	2 069	246	493	85	1 233	12
Tanzania	1 952	0	65	1 609	27	251
Laos	1 941	4	1 052	246	274	364
Serbia	1 770	0	355	41	20	1 355
Dominican Republic	1 698	252	68	1 374	4	0
Madagascar	1 597	1 382	0	121	93	0
Iceland	1 543	0	1 542	0	1	0
Tunisia	1 540	10	0	0	249	1 280

Suriname	1 489	0	0	1 061	0	428
Tajikistan	1 365	0	892	267	5	201
Jordan	1 364	0	0	0	1 353	11
Japan	1 310	0	66	265	439	540
Namibia	1 192	20	404	272	142	353
Kyrgyzstan	1 162	0	58	917	8	180
Mauritania	1 049	487	184	377	1	0
Senegal	950	207	0	511	220	12
Syria	948	0	0	0	5	943
Portugal	919	21	805	28	64	0
Bosnia-Herzegovina	896	49	320	0	185	316
Niger	894	0	0	253	0	641
Guatemala	882	635	0	0	7	240
Armenia	849	147	470	209	23	0
Guyana	841	0	0	778	0	0
Austria	810	91	0	0	253	466
Hungary	794	0	0	0	5	789
Ireland	770	0	422	1	2	345
Korea, South	755	101	94	13	382	166
Yemen	722	0	0	0	6	715
Slovakia	576	0	367	21	140	47
Eritrea	572	0	478	56	37	0
Croatia	526	0	0	0	4	522
Liberia	484	195	0	289	0	0
Georgia	460	211	100	119	0	31
Togo	440	0	0	408	33	0
North Macedonia	387	0	232	41	5	109
Botswana	345	0	10	45	44	246
Jamaica	333	0	0	0	2	0
Kenya	330	260	0	19	50	0
Nicaragua	326	0	0	320	7	0
Afghanistan	290	22	0	0	9	259
Rwanda	280	123	69	88	0	0
Ethiopia	272	109	0	143	20	0
Slovenia	243	0	170	0	0	73
Kosovo	242	63	21	0	0	158
Honduras	213	0	105	100	8	0
Sierra Leone	203	105	0	19	15	0
Montenegro	170	0	119	0	0	35
Costa Rica	152	0	0	151	1	0
Bahamas	103	0	0	0	103	0
Switzerland	66	0	0	0	66	0
Burundi	64	6	6	51	0	0
Fiji	54	0	0	52	0	0
Solomon Islands	54	0	0	0	0	0
Sri Lanka	51	26	0	0	25	0
French Guiana	49	0	0	49	0	0
Taiwan	46	0	0	0	21	24
Lithuania	31	0	0	0	7	24
Bhutan	24	2	0	0	4	18
Cyprus	23	0	6	2	15	0
Barbados	17	0	0	0	0	17
Uruguay	17	0	0	16	1	0
Eswatini	14	0	0	0	0	14
Uganda	14	6	1	0	6	0
Belgium	14	0	14	0	0	0
El Salvador	12	0	0	0	12	0
Christmas Island	11	0	0	0	11	0
Central African Republic	6	0	0	6	0	0
Malawi	5	0	0	0	0	5
Cambodia	4	0	0	0	4	0
Nepal	3	0	0	0	2	1

Moldova	3	0	0	0	3	0
Latvia	3	0	0	0	3	0
Panama	2	0	0	0	2	0
Nauru	2	0	0	0	2	0
Paraguay	1	0	0	0	1	0
Total	4 494 821	379 825	327 012	165 586	108 944	3 502 401

## 6.2 World Production of Mineral Raw Materials, by Mineral Raw Materials

### 6.2.1 Iron and Ferro-Alloy Metals

Commodity	2014	2015	2016	2017	2018	Change 14/18 in %
	in metr. t					
Iron	1 572 296 901	1 572 711 479	1 576 687 576	1 620 298 164	1 514 832 293	-3.65
Chromium	12 997 974	13 246 341	12 846 719	14 250 688	15 290 414	17.64
Cobalt	136 585	145 801	130 271	136 572	156 483	14.57
Manganese	18 758 110	16 115 424	14 748 565	18 909 549	20 180 281	7.58
Molybdenum	305 793	287 226	263 256	285 378	270 147	-11.66
Nickel	2 124 050	2 062 138	1 938 492	2 139 820	2 256 243	6.22
Niobium	95 956	87 517	88 564	91 980	92 480	-3.62
Tantalum	1 642	1 750	1 666	2 093	1 799	9.56
Titanium	7 107 045	6 570 200	6 657 820	7 014 320	7 351 855	3.44
Tungsten	83 312	88 016	86 701	86 361	81 386	-2.31
Vanadium	83 085	79 905	82 224	86 564	81 701	-1.67

### 6.2.2 Non-Ferrous Metals

Commodity	2014	2015	2016	2017	2018	Change 14/18 in %
	in metr. t					
Aluminium	54 028 337	57 901 663	58 612 250	61 229 556	63 237 623	17.05
Antimony	162 466	149 878	155 215	150 420	140 704	-13.39
Arsenic	36 550	37 260	58 917	57 947	52 737	44.29
Bauxite	261 837 066	294 377 135	289 257 856	312 007 406	334 962 385	27.93
Beryllium	8 311	6 938	5 601	5 312	6 118	-26.39
Bismuth	12 001	11 689	10 619	10 607	10 901	-9.17
Cadmium	24 065	23 326	26 341	26 781	24 465	1.66
Copper	18 560 687	19 353 809	20 514 186	20 087 220	20 474 372	10.31
Gallium	303	285	194	310	323	6.60
Germanium	124	139	122	98	101	-18.55
Indium	874	852	758	787	835	-4.46
Lead	5 358 372	5 017 075	4 731 704	4 642 192	4 640 740	-13.39
Lithium	62 950	62 587	82 207	152 433	189 714	201.37
Mercury	2 861	3 395	4 094	2 396	2 814	-1.64
Rare Earths	111 385	124 467	128 976	129 097	163 869	47.12
Rhenium	37	45	49	45	47	27.03
Selenium	3 411	3 275	3 479	3 055	2 988	-12.40
Tellurium	353	446	463	610	647	83.29
Tin	307 790	325 034	297 232	317 945	317 862	3.27
Zinc	13 595 978	13 420 071	12 444 099	12 379 787	12 643 000	-7.01

### 6.2.3 Precious Metals

Commodity	2014	2015	2016	2017	2018	Change 14/18 in %
	in kg					
Gold	3 027 838	3 120 326	3 257 955	3 337 532	3 367 607	11.22
Palladium	186 555	206 195	212 129	204 633	223 497	19.80
Platinum	144 721	190 529	189 542	184 641	189 110	30.67
Rhodium	17 218	22 964	23 956	23 074	22 938	33.22
Silver	27 301 259	28 020 395	27 952 977	26 794 050	27 698 787	1.46

### 6.2.4 Industrial Minerals

Commodity	2014	2015	2016	2017	2018	Change 14/18 in %
	in metr. t (Diamonds in ct)					
Asbestos	1 657 395	1 309 672	1 287 075	1 157 070	1 226 400	-26.00
Baryte	9 583 381	9 734 901	8 742 588	8 954 266	9 207 032	-3.93
Bentonite	16 609 506	18 348 235	19 726 560	21 209 189	21 265 014	28.03
Boron	4 479 529	4 754 430	4 077 557	4 228 732	4 492 429	0.29
Diam. (Gem)	71 373 958	70 045 206	70 468 864	79 652 208	80 871 758	13.31
Diam. (Ind)	54 978 670	57 773 153	56 860 994	71 097 653	65 525 369	19.18
Diatomite	2 321 356	1 999 246	1 821 244	2 120 028	2 205 649	-4.98
Feldspar	31 454 109	32 603 826	35 934 427	36 299 415	37 091 566	17.92
Fluorspar	6 273 575	6 301 661	5 580 847	5 714 409	6 857 413	9.31
Graphite	1 105 611	1 129 378	1 106 688	902 135	1 047 048	-5.30
Gypsum	149 814 035	143 637 536	155 290 837	155 219 661	162 985 178	8.79
Kaolin	38 193 680	38 495 984	39 282 800	41 308 006	41 604 189	8.93
Magnesite	28 576 668	28 336 627	26 895 076	27 459 264	28 801 480	0.79
Perlite	2 688 467	2 550 031	2 773 455	2 360 800	2 725 895	1.39
Phosphates	74 973 287	82 880 467	83 878 266	79 743 065	72 111 340	-3.82
Potash	39 496 281	40 862 020	39 795 158	43 081 310	44 373 702	12.35
Salt	296 559 349	293 527 550	280 580 373	284 813 101	285 741 917	-3.65
Sulfur	73 642 776	75 976 433	77 274 354	78 062 396	79 701 452	8.23
Talc	9 067 797	7 631 677	7 608 523	8 016 781	7 883 978	-13.06
Vermiculite	424 851	429 314	433 982	416 092	432 401	1.78
Zircon	1 591 586	1 524 289	1 447 385	1 440 693	1 544 945	-2.93

## 6.2.5 Mineral Fuels

Commodity	2014	2015	2016	2017	2018	Change 14/18 in %
	in metr. t (Nat. Gas in Mio m <sup>3</sup> )					
Steam Coal	5 823 508 359	5 669 780 899	5 254 022 126	5 502 503 163	5 791 782 824	-0.54
Coking Coal	1 118 855 146	1 090 040 710	1 041 768 657	1 018 678 790	1 032 331 612	-7.73
Hard Coal (Tot)	6 942 363 505	6 759 821 609	6 295 790 783	6 521 181 953	6 824 114 436	-1.70
Lignite	818 877 727	821 961 221	818 488 535	826 418 620	808 179 327	-1.31
Coal (Tot)	7 761 241 232	7 581 782 830	7 114 279 318	7 347 600 573	7 632 293 763	-1.66
Petroleum	4 131 311 595	4 285 705 119	4 296 012 155	4 299 586 996	4 388 772 607	6.23
Nat. Gas	3 530 951	3 589 187	3 595 320	3 771 635	3 959 541	12.14
Oil Sands*	127 943 100	148 574 300	149 572 400	158 202 900	165 081 000	29.03
Oil Shales	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350	4.09
Uranium	67 829	72 341	74 807	69 959	65 308	-3.72

\*Oil Sands as part of Petroleum

## 6.3 World Production of Mineral Raw Materials, by Development Status, Income, Political Stability of the Producer Countries (according to World Bank), Country Groups and Economic Blocks

### 6.3.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	543 730 900	580 394 662	608 537 133	632 252 158	648 117 225
Developing C.	886 289 826	866 818 217	845 800 873	866 763 406	745 887 078
Least Developed C.	22 595 725	11 958 030	13 372 270	12 012 170	9 828 840
Transition C.	119 680 450	113 540 570	108 977 300	109 270 430	110 999 150
<b>Total</b>	<b>1 572 296 901</b>	<b>1 572 711 479</b>	<b>1 576 687 576</b>	<b>1 620 298 164</b>	<b>1 514 832 293</b>
Annual per capita income:					
High Income	619 840 890	590 063 111	618 068 056	642 284 025	657 319 613
Upper Middle Income	798 601 966	820 599 588	774 891 410	791 823 959	676 687 320
Lower Middle Income	139 652 860	157 224 550	178 467 040	181 397 610	177 438 940
Low Income	14 201 185	4 824 230	5 261 070	4 792 570	3 386 420
<b>Total</b>	<b>1 572 296 901</b>	<b>1 572 711 479</b>	<b>1 576 687 576</b>	<b>1 620 298 164</b>	<b>1 514 832 293</b>
Political stability:					
Stable	2 662 046	30 046 460	30 533 160	2 324 640	2 100 000
Fair	579 614 024	566 486 081	604 560 436	661 658 385	677 175 333
Unstable	945 433 031	928 296 248	896 595 450	906 376 509	760 350 920
Extreme Unstable	44 587 800	47 882 690	44 998 530	49 938 630	75 206 040
<b>Total</b>	<b>1 572 296 901</b>	<b>1 572 711 479</b>	<b>1 576 687 576</b>	<b>1 620 298 164</b>	<b>1 514 832 293</b>
Country groups and economic blocks:					
ACP	74 717 885	59 135 810	56 487 960	60 651 280	58 036 600
ASEAN	11 951 200	4 956 620	5 419 070	7 004 255	6 054 890
BRICS	856 843 470	851 333 000	835 616 010	853 215 324	729 577 630
CPE	412 719 880	377 147 940	351 682 080	340 179 030	213 482 820
EC	20 294 436	18 059 365	19 169 623	19 778 056	19 385 032
EFTA	2 466 600	2 252 200	1 425 000	992 700	1 129 900
G7	61 745 300	57 309 000	54 914 100	60 942 600	63 448 500
MERCOSUR	268 659 090	283 439 880	273 162 020	293 734 314	295 103 080
NAFTA	71 655 150	65 314 260	63 293 990	67 887 220	71 778 410
OECD	570 802 450	602 621 051	630 620 906	655 110 735	675 248 903
SADC	52 795 200	47 326 280	43 204 270	48 813 560	48 281 700

## Chromium (Cr<sub>2</sub>O<sub>3</sub> - Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	451 819	457 100	469 140	416 285	509 424
Developing C.	9 784 765	10 203 951	9 827 929	10 974 843	11 626 430
Least Developed C.	92 390	82 390	56 650	119 360	76 460
Transition C.	2 669 000	2 502 900	2 493 000	2 740 200	3 078 100
<b>Total</b>	<b>12 997 974</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 250 688</b>	<b>15 290 414</b>
Annual per capita income:					
High Income	966 499	636 780	701 960	597 375	863 054
Upper Middle Income	10 661 575	11 005 961	10 170 189	11 530 053	12 099 240
Lower Middle Income	1 123 160	1 434 730	1 791 550	1 709 280	2 264 620
Low Income	246 740	168 870	183 020	413 980	63 500
<b>Total</b>	<b>12 997 974</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 250 688</b>	<b>15 290 414</b>
Political stability:					
Stable	441 300	0	0	0	0
Fair	2 771 399	934 380	3 020 960	3 156 775	3 748 854
Unstable	9 719 405	10 797 161	8 713 849	9 649 753	10 219 620
Extreme Unstable	65 870	1 514 800	1 111 910	1 444 160	1 321 940
<b>Total</b>	<b>12 997 974</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 250 688</b>	<b>15 290 414</b>
Country groups and economic blocks:					
ACP	6 300 750	6 892 640	6 472 870	7 549 610	8 052 550
ASEAN	20 420	6 200	10 300	8 340	18 000
BRICS	7 446 322	8 444 381	8 347 329	9 102 113	9 705 230
CPE	22 600	31 100	24 200	26 400	21 430
EC	441 300	457 100	469 140	416 285	509 424
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	244 622	204 321	166 259	212 503	215 000
NAFTA	0	0	0	0	0
OECD	2 258 419	1 921 430	1 539 170	1 800 985	1 656 024
SADC	6 222 140	6 826 870	6 435 620	7 485 380	7 980 800

## Cobalt

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	15 383	16 298	15 281	14 032	12 353
Developing C.	31 544	32 404	31 422	29 763	22 615
Least Developed C.	84 258	91 299	77 968	88 077	116 185
Transition C.	5 400	5 800	5 600	4 700	5 330
<b>Total</b>	<b>136 585</b>	<b>145 801</b>	<b>130 271</b>	<b>136 572</b>	<b>156 483</b>



Annual per capita income:

High Income	24 823	20 258	21 001	19 112	16 123
Upper Middle Income	18 975	25 135	22 641	19 657	14 741
Lower Middle Income	12 733	11 733	13 528	11 930	11 019
Low Income	80 054	88 675	73 101	85 873	114 600
Total	136 585	145 801	130 271	136 572	156 483

Political stability:

Stable	2 104	7 489	7 148	0	0
Fair	22 037	17 174	19 338	22 088	19 238
Unstable	35 969	36 738	31 247	32 023	25 532
Extreme Unstable	76 475	84 400	72 538	82 461	111 713
Total	136 585	145 801	130 271	136 572	156 483

Country groups and economic blocks:

ACP	92 278	100 630	87 460	98 301	126 170
ASEAN	4 646	4 527	3 984	4 050	3 950
BRICS	20 179	20 026	16 846	14 250	9 441
CPE	13 842	15 163	14 941	13 707	8 400
EC	2 104	2 119	2 260	2 300	1 377
EFTA	0	0	0	0	0
G7	7 027	8 249	7 838	6 698	6 098
MERCOSUR	3 828	2 771	852	185	4
NAFTA	7 027	8 249	7 838	6 698	6 098
OECD	15 383	16 298	15 281	14 032	12 353
SADC	86 144	93 332	79 759	89 587	117 595

## Manganese

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	3 498 790	3 283 300	2 406 940	2 885 244	3 520 340
Developing C.	13 939 824	11 839 364	11 330 005	14 798 305	15 237 001
Least Developed C.	128 920	48 560	147 420	190 600	356 940
Transition C.	1 190 576	944 200	864 200	1 035 400	1 066 000
Total	18 758 110	16 115 424	14 748 565	18 909 549	20 180 281

Annual per capita income:

High Income	3 477 460	3 269 580	2 397 000	2 882 410	3 525 490
Upper Middle Income	12 974 090	10 833 904	9 943 435	12 833 879	12 575 261
Lower Middle Income	2 306 560	2 008 940	2 408 130	3 193 260	4 072 090
Low Income	0	3 000	0	0	7 440
Total	18 758 110	16 115 424	14 748 565	18 909 549	20 180 281

Political stability:

Stable	0	0	0	0	0
Fair	6 362 280	5 541 780	3 089 750	4 838 214	6 299 720
Unstable	11 809 960	9 978 474	11 126 665	13 375 985	12 841 206
Extreme Unstable	585 870	595 170	532 150	695 350	1 039 355
<b>Total</b>	<b>18 758 110</b>	<b>16 115 424</b>	<b>14 748 565</b>	<b>18 909 549</b>	<b>20 180 281</b>

Country groups and economic blocks:

ACP	7 914 310	6 760 230	6 552 110	9 232 960	10 800 430
ASEAN	558 390	325 740	470 690	711 050	976 420
BRICS	10 525 610	8 626 028	8 178 409	10 212 537	9 094 900
CPE	3 360 000	2 534 000	2 179 000	2 536 650	1 200 000
EC	44 360	33 000	18 440	6 234	6 020
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	1 094 000	1 226 458	1 198 709	1 343 967	1 350 000
NAFTA	235 686	217 466	215 782	218 510	209 023
OECD	3 756 266	3 513 596	2 625 522	3 124 820	3 753 243
SADC	5 395 400	4 201 710	4 060 650	5 561 220	5 794 940

## Molybdenum

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	77 588	49 906	38 984	45 465	46 448
Developing C.	218 845	227 935	212 581	230 913	215 069
Least Developed C.	0	0	0	0	0
Transition C.	9 360	9 385	11 691	9 000	8 630
<b>Total</b>	<b>305 793</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 147</b>
Annual per capita income:					
High Income	130 916	102 743	94 631	108 862	107 154
Upper Middle Income	168 381	175 855	159 362	172 696	159 103
Lower Middle Income	6 246	8 258	8 823	3 340	3 330
Low Income	250	370	440	480	560
<b>Total</b>	<b>305 793</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 147</b>
Political stability:					
Stable	0	2 505	2 783	0	0
Fair	129 801	103 664	96 700	111 537	110 156
Unstable	175 992	179 722	163 773	172 941	155 851
Extreme Unstable	0	1 335	0	900	4 140
<b>Total</b>	<b>305 793</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 147</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	134 614	138 404	115 949	120 317	100 820
CPE	133 749	138 077	115 462	120 210	101 560
EC	0	0	0	0	0
EFTA	2	1	1	0	0
G7	77 558	49 905	38 983	45 465	46 448
MERCOSUR	954	869	479	651	364
NAFTA	91 928	61 232	50 879	59 450	66 713
OECD	141 218	115 405	106 527	123 096	127 869
SADC	0	0	0	0	0

## Nickel

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	549 791	525 737	505 953	478 509	422 850
Developing C.	1 240 143	1 189 816	1 133 805	1 364 058	1 555 599
Least Developed C.	58 046	71 475	67 024	63 373	50 954
Transition C.	276 070	275 110	231 710	233 880	226 840
Total	2 124 050	2 062 138	1 938 492	2 139 820	2 256 243
Annual per capita income:					
High Income	992 564	718 936	710 160	693 891	639 075
Upper Middle Income	356 283	631 658	576 443	621 182	617 669
Lower Middle Income	721 524	650 360	592 122	774 007	966 295
Low Income	53 679	61 184	59 767	50 740	33 204
Total	2 124 050	2 062 138	1 938 492	2 139 820	2 256 243
Political stability:					
Stable	19 281	234 519	235 034	0	0
Fair	579 478	353 014	332 352	528 111	496 114
Unstable	1 525 291	1 465 965	1 061 260	1 596 939	1 728 819
Extreme Unstable		8 640	309 846	14 770	31 310
Total	2 124 050	2 062 138	1 938 492	2 139 820	2 256 243
Country groups and economic blocks:					
ACP	194 681	210 244	205 786	199 199	204 158
ASEAN	636 116	579 628	528 678	731 627	907 665
BRICS	505 623	508 391	450 820	440 614	434 599
CPE	158 021	160 007	152 472	151 648	148 963
EC	50 153	38 491	43 454	56 451	64 212
EFTA	290	300	230	190	170
G7	233 167	261 719	259 134	236 402	197 590
MERCOSUR	89 199	93 009	78 626	68 803	74 400
NAFTA	233 167	261 719	259 134	236 402	197 590
OECD	552 821	534 377	515 293	493 279	436 410
SADC	123 593	134 662	125 639	99 203	94 290

## Niobium (Nb<sub>2</sub>O<sub>5</sub>-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	5 774	5 385	6 099	6 981	7 700
Developing C.	88 821	80 524	80 803	83 318	83 201
Least Developed C.	780	980	1 034	1 033	910
Transition C.	581	628	628	648	669
<b>Total</b>	<b>95 956</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>92 480</b>
Annual per capita income:					
High Income	6 355	5 385	6 099	6 981	7 700
Upper Middle Income	88 791	81 123	81 327	83 844	83 689
Lower Middle Income	30	29	104	122	181
Low Income	780	980	1 034	1 033	910
<b>Total</b>	<b>95 956</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>92 480</b>
Political stability:					
Stable	0	5 385	6 099	0	0
Fair	5 774	248	0	7 241	7 955
Unstable	89 751	81 128	81 528	83 857	83 701
Extreme Unstable	431	756	937	882	824
<b>Total</b>	<b>95 956</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>92 480</b>
Country groups and economic blocks:					
ACP	810	1 009	1 138	1 155	1 091
ASEAN	0	0	0	0	0
BRICS	89 372	81 123	81 327	83 844	83 689
CPE	20	30	30	30	20
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	5 774	5 385	6 099	6 981	7 700
MERCOSUR	88 771	80 465	80 669	83 166	83 000
NAFTA	5 774	5 385	6 099	6 981	7 700
OECD	5 774	5 385	6 099	6 981	7 700
SADC	385	699	804	727	617

## Tantalum (Ta<sub>2</sub>O<sub>5</sub>-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	0	20	10	20	30
Developing C.	496	460	319	699	525
Least Developed C.	1 106	1 238	1 288	1 329	1 203
Transition C.	40	32	49	45	41
<b>Total</b>	<b>1 642</b>	<b>1 750</b>	<b>1 666</b>	<b>2 093</b>	<b>1 799</b>

Annual per capita income:

High Income	40	20	10	20	30
Upper Middle Income	414	419	302	261	318
Lower Middle Income	82	73	66	483	248
Low Income	1 106	1 238	1 288	1 329	1 203
Total	1 642	1 750	1 666	2 093	1 799

Political stability:

Stable	0	0	0	0	0
Fair	26	409	18	421	447
Unstable	1 052	439	625	315	363
Extreme Unstable	564	902	1 023	1 357	989
Total	1 642	1 750	1 666	2 093	1 799

Country groups and economic blocks:

ACP	1 181	1 310	1 354	1 809	1 433
ASEAN	26	9	8	6	27
BRICS	428	410	294	255	291
CPE	75	110	120	110	100
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	313	268	125	100	150
NAFTA	0	0	0	0	0
OECD	0	20	10	20	30
SADC	449	764	886	818	698

## Titanium (TiO<sub>2</sub>-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	2 290 010	2 035 640	2 085 000	2 047 200	1 771 620
Developing C.	3 449 595	3 148 470	3 096 550	3 209 320	3 809 645
Least Developed C.	867 490	908 990	1 050 990	1 259 200	1 183 040
Transition C.	499 950	477 100	425 280	498 600	587 550
Total	7 107 045	6 570 200	6 657 820	7 014 320	7 351 855

Annual per capita income:

High Income	2 511 300	2 147 890	2 176 800	2 169 870	1 888 870
Upper Middle Income	2 399 295	2 310 780	2 283 220	2 493 800	3 122 945
Lower Middle Income	1 384 910	1 202 540	1 146 810	1 091 450	1 444 940
Low Income	811 540	908 990	1 050 990	1 259 200	895 100
Total	7 107 045	6 570 200	6 657 820	7 014 320	7 351 855

Political stability:

Stable	0	595 000	700 000	0	0
Fair	2 449 900	1 703 490	1 659 010	2 360 530	2 075 470
Unstable	4 007 085	3 891 480	3 614 780	4 217 120	4 721 260
Extreme Unstable	650 060	380 230	684 030	436 670	555 125
<b>Total</b>	<b>7 107 045</b>	<b>6 570 200</b>	<b>6 657 820</b>	<b>7 014 320</b>	<b>7 351 855</b>

Country groups and economic blocks:

ACP	2 321 400	2 278 740	2 340 470	2 694 760	2 523 190
ASEAN	297 560	127 190	115 610	125 660	121 600
BRICS	2 817 545	2 611 680	2 543 940	2 551 100	3 162 400
CPE	1 408 860	1 190 800	1 305 620	1 359 160	2 041 100
EC	0	0	0	0	0
EFTA	380 010	277 340	260 000	238 200	176 370
G7	913 000	705 000	755 000	816 000	720 000
MERCOSUR	46 445	45 330	37 660	48 000	38 000
NAFTA	913 000	705 000	755 000	816 000	720 000
OECD	2 427 250	2 152 640	2 181 550	2 176 240	1 895 045
SADC	1 877 500	1 578 300	1 606 300	1 878 400	1 749 700

## Tungsten (W-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	4 936	4 488	3 042	3 299	3 272
Developing C.	74 143	79 284	79 485	79 244	73 863
Least Developed C.	1 491	1 412	1 387	1 571	1 920
Transition C.	2 742	2 832	2 787	2 247	2 331
<b>Total</b>	<b>83 312</b>	<b>88 016</b>	<b>86 701</b>	<b>86 361</b>	<b>81 386</b>
Annual per capita income:					
High Income	7 607	4 496	3 056	3 299	3 272
Upper Middle Income	69 300	75 418	75 215	74 387	67 944
Lower Middle Income	4 944	6 868	7 163	7 124	7 140
Low Income	1 461	1 234	1 267	1 551	3 030
<b>Total</b>	<b>83 312</b>	<b>88 016</b>	<b>86 701</b>	<b>86 361</b>	<b>81 386</b>
Political stability:					
Stable	819	1 815	0	0	0
Fair	4 894	8 681	8 852	9 868	9 738
Unstable	77 586	77 427	77 685	76 207	71 005
Extreme Unstable	13	93	164	286	643
<b>Total</b>	<b>83 312</b>	<b>88 016</b>	<b>86 701</b>	<b>86 361</b>	<b>81 386</b>

Country groups and economic blocks:

ACP	1 391	1 189	1 225	1 253	1 686
ASEAN	3 700	4 344	5 240	5 514	5 246
BRICS	71 036	75 274	75 030	74 344	67 834
CPE	72 045	77 212	77 846	77 774	72 021
EC	2 312	2 325	2 934	3 294	3 272
EFTA	0	0	0	0	0
G7	2 147	1 970	732	1 086	890
MERCOSUR	677	432	323	400	300
NAFTA	2 147	1 815	0	0	45
OECD	4 948	4 496	3 056	3 299	3 317
SADC	13	55	79	130	160

## Vanadium (V-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	0	0	0	0	0
Developing C.	66 960	62 709	65 338	67 928	64 649
Least Developed C.	0	0	0	0	0
Transition C.	16 125	17 196	16 886	18 636	17 052
Total	83 085	79 905	82 224	86 564	81 701
Annual per capita income:					
High Income	15 125	0	0	0	0
Upper Middle Income	67 960	79 905	82 224	86 564	81 701
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	83 085	79 905	82 224	86 564	81 701
Political stability:					
Stable	0	0	0	0	0
Fair	1 000	0	0	0	0
Unstable	82 085	79 905	82 224	86 564	81 701
Extreme Unstable	0	0	0	0	0
Total	83 085	79 905	82 224	86 564	81 701

Country groups and economic blocks:

ACP	21 582	17 455	15 877	14 222	14 904
ASEAN	0	0	0	0	0
BRICS	82 085	78 905	82 224	86 564	81 701
CPE	44 800	42 000	45 000	48 500	44 240
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	578	3 254	4 461	5 206	5 505
NAFTA	0	0	0	0	0
OECD	0	0	0	0	0
SADC	21 582	17 455	15 877	14 222	14 904

## 6.3.2 Non-Ferrous Metals

### Aluminium

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	10 467 220	10 614 281	10 196 793	10 049 011	10 018 844
Developing C.	38 952 721	42 627 817	43 736 111	46 469 488	48 455 393
Least Developed C.	566 880	558 390	571 125	577 495	571 125
Transition C.	4 041 516	4 101 175	4 108 221	4 133 562	4 192 261
<b>Total</b>	<b>54 028 337</b>	<b>57 901 663</b>	<b>58 612 250</b>	<b>61 229 556</b>	<b>63 237 623</b>
Annual per capita income:					
High Income	19 137 652	15 526 754	15 236 101	15 564 905	15 315 119
Upper Middle Income	31 475 967	38 605 225	39 101 322	40 475 377	43 202 520
Lower Middle Income	2 847 838	3 211 294	3 703 702	4 508 632	4 053 059
Low Income	566 880	558 390	571 125	680 642	666 925
<b>Total</b>	<b>54 028 337</b>	<b>57 901 663</b>	<b>58 612 250</b>	<b>61 229 556</b>	<b>63 237 623</b>
Political stability:					
Stable	328 269	3 940 034	4 247 524	1 096 728	1 072 156
Fair	14 370 107	10 789 718	10 131 610	14 227 035	14 775 298
Unstable	39 025 761	42 788 011	43 868 516	45 408 693	46 852 188
Extreme Unstable	304 200	383 900	364 600	497 100	537 981
<b>Total</b>	<b>54 028 337</b>	<b>57 901 663</b>	<b>58 612 250</b>	<b>61 229 556</b>	<b>63 237 623</b>
Country groups and economic blocks:					
ACP	1 442 980	1 375 463	1 389 824	1 402 593	1 413 473
ASEAN	704 474	697 149	865 483	1 479 816	1 657 611
BRICS	35 538 503	38 869 149	39 726 729	41 830 898	43 555 912
CPE	28 316 700	31 518 000	31 775 400	33 830 580	36 457 480
EC	1 984 790	2 213 979	2 249 935	2 258 720	2 256 407
EFTA	1 880 765	1 952 492	1 947 080	2 012 988	2 026 478
G7	5 521 105	5 470 955	5 044 758	4 977 738	4 787 941
MERCOSUR	1 542 103	1 319 917	1 362 485	1 365 938	1 159 537
NAFTA	4 567 905	4 466 555	4 027 318	3 953 008	3 821 041
OECD	10 234 522	10 388 825	9 974 286	9 848 937	9 819 034
SADC	1 311 880	1 253 390	1 272 125	1 293 495	1 285 125



## Antimony

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	3 832	4 214	4 285	4 611	3 575
Developing C.	134 604	118 439	112 645	106 769	98 484
Least Developed C.	3 980	4 166	2 242	4 820	2 330
Transition C.	20 050	23 059	36 043	34 220	36 315
<b>Total</b>	<b>162 466</b>	<b>149 878</b>	<b>155 215</b>	<b>150 420</b>	<b>140 704</b>
Annual per capita income:					
High Income	10 232	4 214	4 285	4 611	3 575
Upper Middle Income	127 948	122 647	116 893	110 113	101 984
Lower Middle Income	24 286	23 017	34 037	9 326	6 395
Low Income	0	0	0	26 370	28 750
<b>Total</b>	<b>162 466</b>	<b>149 878</b>	<b>155 215</b>	<b>150 420</b>	<b>140 704</b>
Political stability:					
Stable	0	1	0	0	0
Fair	5 452	5 599	5 330	5 511	4 290
Unstable	156 035	142 214	147 114	140 054	129 179
Extreme Unstable	979	2 064	2 771	4 855	7 235
<b>Total</b>	<b>162 466</b>	<b>149 878</b>	<b>155 215</b>	<b>150 420</b>	<b>140 704</b>
Country groups and economic blocks:					
ACP	815	302	350	0	0
ASEAN	5 784	4 386	2 504	5 050	2 565
BRICS	128 615	119 122	110 590	103 803	96 319
CPE	122 498	111 620	103 850	97 913	89 819
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	4	1	0	1	5
MERCOSUR	0	0	0	0	0
NAFTA	270	91	166	241	305
OECD	7 168	6 254	7 201	9 691	7 445
SADC	815	302	350	0	0

## Arsenic

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	1 045	1 045	1 045	1 045	1 045
Developing C.	34 005	34 715	56 372	55 402	50 192
Least Developed C.	0	0	0	0	0
Transition C.	1 500	1 500	1 500	1 500	1 500
<b>Total</b>	<b>36 550</b>	<b>37 260</b>	<b>58 917</b>	<b>57 947</b>	<b>52 737</b>

Annual per capita income:

High Income	2 545	1 045	1 045	1 045	1 045
Upper Middle Income	27 090	28 610	51 712	50 003	45 876
Lower Middle Income	6 915	7 605	6 160	6 899	5 816
Low Income	0	0	0	0	0
Total	36 550	37 260	58 917	57 947	52 737

Political stability:

Stable	0	0	0	0	0
Fair	3 025	3 045	3 005	1 745	1 045
Unstable	33 525	34 215	55 912	56 202	51 692
Extreme Unstable	0	0	0	0	0
Total	36 550	37 260	58 917	57 947	52 737

Country groups and economic blocks:

ACP	1 980	2 000	1 960	700	0
ASEAN	0	0	0	0	0
BRICS	26 500	26 500	26 500	26 500	25 500
CPE	25 000	25 000	25 000	25 000	24 000
EC	1 000	1 000	1 000	1 000	1 000
EFTA	0	0	0	0	0
G7	45	45	45	45	45
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	1 045	1 045	1 045	1 045	1 045
SADC	1 980	2 000	1 960	700	0

## Bauxite (crude ore)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	80 731 652	83 314 818	85 734 238	91 783 354	97 992 628
Developing C.	148 397 581	177 571 304	157 192 963	152 848 347	159 411 862
Least Developed C.	21 360 772	22 309 635	34 028 487	55 016 374	63 168 287
Transition C.	11 347 061	11 181 378	12 302 168	12 359 331	14 389 608
Total	261 837 066	294 377 135	289 257 856	312 007 406	334 962 385
Annual per capita income:					
High Income	91 209 812	86 336 818	90 492 458	95 908 354	102 723 318
Upper Middle Income	120 750 704	154 659 232	136 689 902	132 919 276	130 665 903
Lower Middle Income	28 515 818	31 349 850	28 281 509	29 687 302	40 051 077
Low Income	21 360 732	22 031 235	33 793 987	53 492 474	61 522 087
Total	261 837 066	294 377 135	289 257 856	312 007 406	334 962 385

Political stability:

Stable	0	0	0	0	0
Fair	101 836 932	124 538 843	106 431 196	109 461 338	120 858 367
Unstable	159 968 978	168 763 603	181 780 480	200 509 549	212 321 152
Extreme Unstable	31 156	1 074 689	1 046 180	2 036 519	1 782 866
Total	261 837 066	294 377 135	289 257 856	312 007 406	334 962 385

Country groups and economic blocks:

ACP	38 352 770	38 241 123	45 256 752	66 315 731	76 320 335
ASEAN	7 306 150	29 808 367	8 800 822	5 128 380	14 543 535
BRICS	124 070 071	131 629 389	136 242 387	135 297 181	132 250 680
CPE	60 302 400	62 224 100	67 763 800	71 582 000	72 930 000
EC	1 967 356	1 921 857	1 944 190	2 010 665	1 645 335
EFTA	0	0	0	0	0
G7	204 400	553 700	342 900	422 100	469 700
MERCOSUR	38 654 160	38 048 810	39 584 200	38 364 500	32 092 000
NAFTA	133 300	483 700	368 900	352 100	399 700
OECD	81 813 948	84 352 921	86 809 614	93 490 283	98 658 990
SADC	29 027	5 189	1 524	3 194	9 919

## Beryllium (concentrates)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	6 900	5 100	3 870	3 760	4 170
Developing C.	1 269	1 356	1 375	1 325	1 355
Least Developed C.	142	482	356	227	593
Transition C.	0	0	0	0	0
Total	8 311	6 938	5 601	5 312	6 118
Annual per capita income:					
High Income	6 900	5 100	3 870	3 760	4 170
Upper Middle Income	1 217	1 300	1 375	1 325	1 320
Lower Middle Income	56	63	5	4	42
Low Income	138	475	351	223	586
Total	8 311	6 938	5 601	5 312	6 118
Political stability:					
Stable	0	0	0	0	0
Fair	6 904	5 130	3 875	3 794	4 207
Unstable	1 355	1 752	1 726	1 518	1 876
Extreme Unstable	52	56	0	0	35
Total	8 311	6 938	5 601	5 312	6 118

Country groups and economic blocks:

ACP	194	538	356	227	628
ASEAN	0	0	0	0	0
BRICS	1 217	1 300	1 375	1 325	1 320
CPE	1 200	1 200	1 250	1 250	1 250
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	6 900	5 100	3 870	3 760	4 170
MERCOSUR	17	100	125	75	70
NAFTA	6 900	5 100	3 870	3 760	4 170
OECD	6 900	5 100	3 870	3 760	4 170
SADC	142	459	326	197	563

## Bismuth

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	586	634	431	529	576
Developing C.	11 221	10 871	9 897	9 847	10 136
Least Developed C.	0	0	0	0	0
Transition C.	194	184	291	231	189
Total	12 001	11 689	10 619	10 607	10 901

Annual per capita income:

High Income	626	634	431	529	576
Upper Middle Income	9 036	8 031	8 117	7 667	7 647
Lower Middle Income	2 339	3 024	2 071	2 411	2 678
Low Income	0	0	0	0	0
Total	12 001	11 689	10 619	10 607	10 901

Political stability:

Stable	0	2	3	0	0
Fair	736	3 632	2 701	3 132	3 374
Unstable	11 265	8 055	7 915	7 475	7 527
Extreme Unstable	0	0	0	0	0
Total	12 001	11 689	10 619	10 607	10 901

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	2 324	3 000	2 013	2 403	2 639
BRICS	7 790	7 290	7 130	6 830	7 030
CPE	10 074	10 250	9 113	9 203	9 639
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	586	634	431	529	576
MERCOSUR	0	0	0	0	0
NAFTA	952	603	542	517	318
OECD	1 534	1 235	970	1 042	889
SADC	0	0	0	0	0

## Cadmium

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	6 066	5 645	6 862	6 752	6 255
Developing C.	15 263	14 329	15 407	15 833	16 196
Least Developed C.	0	0	0	0	0
Transition C.	2 736	3 352	4 072	4 196	2 014
<b>Total</b>	<b>24 065</b>	<b>23 326</b>	<b>26 341</b>	<b>26 781</b>	<b>24 465</b>
Annual per capita income:					
High Income	11 099	8 921	11 095	11 475	11 042
Upper Middle Income	12 594	13 498	14 721	14 753	12 986
Lower Middle Income	172	707	325	353	237
Low Income	200	200	200	200	200
<b>Total</b>	<b>24 065</b>	<b>23 326</b>	<b>26 341</b>	<b>26 781</b>	<b>24 465</b>
Political stability:					
Stable	0	1 159	2 305	0	0
Fair	12 114	8 213	11 925	14 498	12 279
Unstable	11 951	13 954	12 111	12 283	12 186
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>24 065</b>	<b>23 326</b>	<b>26 341</b>	<b>26 781</b>	<b>24 465</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	9 470	9 548	9 557	9 838	9 677
CPE	8 401	8 362	8 422	8 611	8 650
EC	2 180	1 717	1 834	1 992	1 738
EFTA	320	310	335	416	380
G7	4 136	3 988	5 345	5 074	4 657
MERCOSUR	315	307	291	276	374
NAFTA	3 146	2 942	3 949	3 344	3 464
OECD	11 393	10 204	12 339	12 521	12 349
SADC	0	0	0	0	0

## Copper

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	3 861 302	3 968 674	3 993 001	3 671 546	3 587 971
Developing C.	11 259 134	11 880 943	12 944 832	12 604 929	12 781 995
Least Developed C.	2 069 663	2 111 475	2 135 564	2 226 692	2 490 700
Transition C.	1 370 588	1 392 717	1 440 789	1 584 053	1 613 706
<b>Total</b>	<b>18 560 687</b>	<b>19 353 809</b>	<b>20 514 186</b>	<b>20 087 220</b>	<b>20 474 372</b>

Annual per capita income:

High Income	10 314 948	9 641 454	9 453 298	9 133 056	9 358 206
Upper Middle Income	5 351 846	6 261 598	7 305 731	7 342 424	7 291 701
Lower Middle Income	1 735 803	2 310 132	2 659 669	2 463 503	2 534 616
Low Income	1 158 090	1 140 625	1 095 488	1 148 237	1 289 849
<b>Total</b>	<b>18 560 687</b>	<b>19 353 809</b>	<b>20 514 186</b>	<b>20 087 220</b>	<b>20 474 372</b>

Political stability:

Stable	42 810	714 647	695 508	0	0
Fair	11 414 106	10 413 341	10 818 022	11 109 147	11 482 466
Unstable	6 060 520	7 065 758	7 771 884	7 788 183	7 157 619
Extreme Unstable	1 043 251	1 160 063	1 228 772	1 189 890	1 834 287
<b>Total</b>	<b>18 560 687</b>	<b>19 353 809</b>	<b>20 514 186</b>	<b>20 087 220</b>	<b>20 474 372</b>

Country groups and economic blocks:

ACP	2 101 674	2 048 207	2 067 111	2 168 579	2 342 664
ASEAN	686 367	932 721	1 095 977	991 469	1 077 763
BRICS	2 877 274	2 880 320	2 987 148	2 950 594	2 809 750
CPE	2 091 762	2 081 670	2 267 560	2 057 420	1 908 290
EC	850 039	878 146	919 938	965 231	911 703
EFTA	0	0	0	0	0
G7	2 032 729	2 094 647	2 125 508	1 857 194	1 762 932
MERCOSUR	398 753	412 705	420 823	417 845	398 435
NAFTA	2 547 754	2 689 098	2 919 490	2 599 440	2 459 512
OECD	10 107 419	10 320 794	10 324 986	9 882 756	10 081 228
SADC	1 894 532	1 889 097	1 919 246	2 000 843	2 174 344

## Gallium

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	26	16	7	3	3
Developing C.	263	256	174	293	308
Least Developed C.	0	0	0	0	0
Transition C.	14	13	13	14	12
<b>Total</b>	<b>303</b>	<b>285</b>	<b>194</b>	<b>310</b>	<b>323</b>

Annual per capita income:

High Income	31	18	10	6	6
Upper Middle Income	262	258	175	295	311
Lower Middle Income	10	9	9	9	6
Low Income	0	0	0	0	0
<b>Total</b>	<b>303</b>	<b>285</b>	<b>194</b>	<b>310</b>	<b>323</b>

Political stability:

Stable	0	0	0	0	0
Fair	27	18	10	6	6
Unstable	266	258	175	295	311
Extreme Unstable	10	9	9	9	6
Total	303	285	194	310	323

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	266	258	175	295	311
CPE	262	254	171	290	305
EC	18	11	4	0	0
EFTA	0	0	0	0	0
G7	24	16	7	3	3
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	27	18	10	6	6
SADC	0	0	0	0	0

## Germanium

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	22	18	5	4	4
Developing C.	95	114	110	87	90
Least Developed C.	0	0	0	0	0
Transition C.	7	7	7	7	7
Total	124	139	122	98	101
Annual per capita income:					
High Income	28	18	5	4	4
Upper Middle Income	95	120	116	93	96
Lower Middle Income	1	1	1	1	1
Low Income	0	0	0	0	0
Total	124	139	122	98	101
Political stability:					
Stable	17	0	0	0	0
Fair	5	18	5	4	4
Unstable	101	120	116	93	96
Extreme Unstable	1	1	1	1	1
Total	124	139	122	98	101

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	101	120	116	93	96
CPE	95	114	110	87	90
EC	17	13	0	0	0
EFTA	0	0	0	0	0
G7	5	5	5	4	4
MERCOSUR	0	0	0	0	0
NAFTA	3	3	3	2	2
OECD	22	18	5	4	4
SADC	0	0	0	0	0

## Indium

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	225	216	176	202	196
Developing C.	606	596	577	580	635
Least Developed C.	0	0	0	0	0
Transition C.	43	40	5	5	4
<b>Total</b>	<b>874</b>	<b>852</b>	<b>758</b>	<b>787</b>	<b>835</b>

Annual per capita income:

High Income	418	411	386	417	431
Upper Middle Income	456	441	372	370	404
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>874</b>	<b>852</b>	<b>758</b>	<b>787</b>	<b>835</b>

Political stability:

Stable	0	70	71	0	0
Fair	375	341	315	417	431
Unstable	499	441	372	370	404
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>874</b>	<b>852</b>	<b>758</b>	<b>787</b>	<b>835</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	485	432	367	365	399
CPE	437	387	357	355	395
EC	88	76	35	65	68
EFTA	0	0	0	0	0
G7	195	196	156	182	176
MERCOSUR	5	5	5	5	0
NAFTA	67	70	71	67	58
OECD	375	411	386	417	431
SADC	0	0	0	0	0



## Lead

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	1 339 251	1 220 496	981 229	898 813	928 215
Developing C.	3 659 667	3 451 546	3 333 834	3 274 109	3 246 555
Least Developed C.	20 744	15 443	22 211	15 550	25 260
Transition C.	338 710	329 590	394 430	453 720	440 710
<b>Total</b>	<b>5 358 372</b>	<b>5 017 075</b>	<b>4 731 704</b>	<b>4 642 192</b>	<b>4 640 740</b>
Annual per capita income:					
High Income	1 553 010	1 207 825	963 019	920 690	905 867
Upper Middle Income	3 445 002	3 418 175	3 333 852	3 228 520	3 179 930
Lower Middle Income	321 616	357 122	397 932	400 292	461 383
Low Income	38 744	33 953	36 901	92 690	93 560
<b>Total</b>	<b>5 358 372</b>	<b>5 017 075</b>	<b>4 731 704</b>	<b>4 642 192</b>	<b>4 640 740</b>
Political stability:					
Stable	0	3 809	12 653	0	0
Fair	1 467 324	1 270 116	1 088 699	1 077 140	1 118 428
Unstable	3 877 689	3 650 461	3 550 255	3 462 752	3 350 672
Extreme Unstable	13 359	92 689	80 097	102 300	171 640
<b>Total</b>	<b>5 358 372</b>	<b>5 017 075</b>	<b>4 731 704</b>	<b>4 642 192</b>	<b>4 640 740</b>
Country groups and economic blocks:					
ACP	55 092	61 926	60 745	79 715	82 689
ASEAN	25 590	21 160	28 190	27 685	51 140
BRICS	2 956 296	2 706 724	2 631 019	2 518 629	2 493 665
CPE	2 648 020	2 373 400	2 269 820	2 124 990	2 119 200
EC	229 680	193 199	181 238	175 478	202 222
EFTA	0	0	0	0	0
G7	381 617	373 809	358 753	330 577	294 541
MERCOSUR	40 889	39 275	37 031	47 094	35 537
NAFTA	632 079	637 581	605 408	573 499	525 310
OECD	1 672 461	1 547 497	1 274 074	1 198 567	1 212 726
SADC	41 812	44 926	46 245	53 955	39 409

## Lithium (Li<sub>2</sub>O-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	24 558	26 164	31 747	100 350	126 084
Developing C.	38 392	36 423	50 460	52 083	63 630
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
<b>Total</b>	<b>62 950</b>	<b>62 587</b>	<b>82 207</b>	<b>152 433</b>	<b>189 714</b>

Annual per capita income:

High Income	56 768	48 664	62 987	145 230	164 934
Upper Middle Income	4 552	12 518	17 180	5 433	21 560
Lower Middle Income	0	0	10	20	3 220
Low Income	1 630	1 405	2 030	1 750	0
<b>Total</b>	<b>62 950</b>	<b>62 587</b>	<b>82 207</b>	<b>152 433</b>	<b>189 714</b>

Political stability:

Stable	0	0	0	0	0
Fair	56 768	56 524	75 187	145 230	179 344
Unstable	6 182	6 063	7 020	7 203	10 320
Extreme Unstable	0	0	0	0	50
<b>Total</b>	<b>62 950</b>	<b>62 587</b>	<b>82 207</b>	<b>152 433</b>	<b>189 714</b>

Country groups and economic blocks:

ACP	1 630	1 405	2 030	1 750	3 810
ASEAN	0	0	0	0	0
BRICS	4 552	4 658	4 980	5 433	7 150
CPE	4 100	4 350	4 540	4 900	6 550
EC	208	204	307	604	914
EFTA	0	0	0	0	0
G7	2 150	1 820	1 800	1 486	10 250
MERCOSUR	7 842	8 168	12 640	12 893	14 410
NAFTA	2 150	1 820	1 800	1 486	10 250
OECD	49 378	48 664	62 987	132 870	164 934
SADC	1 630	1 405	2 030	1 750	3 760

## Mercury

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	15	15	15	15	15
Developing C.	2 665	3 214	3 859	2 221	2 609
Least Developed C.	0	0	0	0	0
Transition C.	181	166	220	160	190
<b>Total</b>	<b>2 861</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 814</b>

Annual per capita income:

High Income	137	29	17	74	18
Upper Middle Income	2 573	3 230	3 887	2 202	2 646
Lower Middle Income	151	136	190	20	30
Low Income	0	0	0	100	120
<b>Total</b>	<b>2 861</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 814</b>

Political stability:

Stable	0	0	0	0	0
Fair	87	88	152	74	68
Unstable	2 774	3 307	3 942	2 322	2 746
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>2 861</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 814</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	2 310	2 850	3 483	1 999	2 366
CPE	2 260	2 800	3 433	1 949	2 316
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	15	15	15	15	15
MERCOSUR	52	59	135	54	50
NAFTA	316	322	282	215	245
OECD	336	336	284	220	248
SADC	0	0	0	0	0

## Rare Earths Concentrates (REO-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	11 960	14 594	13 872	17 264	36 556
Developing C.	97 291	107 561	112 041	109 302	124 086
Least Developed C.	0	0	0	31	631
Transition C.	2 134	2 312	3 063	2 500	2 596
<b>Total</b>	<b>111 385</b>	<b>124 467</b>	<b>128 976</b>	<b>129 097</b>	<b>163 869</b>
Annual per capita income:					
High Income	14 094	14 594	13 872	17 264	36 556
Upper Middle Income	95 455	108 917	112 839	109 502	123 782
Lower Middle Income	1 836	956	2 265	2 300	2 900
Low Income	0	0	0	31	631
<b>Total</b>	<b>111 385</b>	<b>124 467</b>	<b>128 976</b>	<b>129 097</b>	<b>163 869</b>
Political stability:					
Stable	0	0	0	0	0
Fair	12 415	15 159	15 748	17 566	36 642
Unstable	98 970	109 308	113 228	111 500	126 596
Extreme Unstable	0	0	0	31	631
<b>Total</b>	<b>111 385</b>	<b>124 467</b>	<b>128 976</b>	<b>129 097</b>	<b>163 869</b>

Country groups and economic blocks:

ACP	0	0	0	31	631
ASEAN	455	565	1 876	302	86
BRICS	98 970	109 308	113 228	111 500	126 596
CPE	95 000	105 000	105 000	105 000	120 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	4 769	3 678	0	0	18 000
MERCOSUR	0	1 040	2 900	1 700	1 100
NAFTA	4 769	3 678	0	0	18 000
OECD	11 960	14 594	13 872	17 264	36 556
SADC	0	0	0	0	0

## Rhenium

	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg
Development status:					
Developed C.	13 845	14 246	14 883	15 764	14 510
Developing C.	20 357	24 935	24 942	22 951	28 552
Least Developed C.	0	0	0	0	0
Transition C.	3 051	5 910	9 265	5 005	3 505
Total	37 253	45 091	49 090	43 720	46 567
Annual per capita income:					
High Income	33 402	36 781	37 425	36 215	40 562
Upper Middle Income	2 600	7 206	10 600	6 975	5 505
Lower Middle Income	1 251	1 104	1 065	530	500
Low Income	0	0	0	0	0
Total	37 253	45 091	49 090	43 720	46 567
Political stability:					
Stable	0	0	0	0	0
Fair	32 202	36 781	44 125	38 815	42 162
Unstable	5 051	8 310	4 965	4 905	4 405
Extreme Unstable	0	0	0	0	0
Total	37 253	45 091	49 090	43 720	46 567

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	3 800	3 900	3 900	4 000	3 500
CPE	2 300	2 400	2 400	2 500	2 500
EC	5 335	6 346	6 443	7 564	6 290
EFTA	0	0	0	0	0
G7	8 510	7 900	8 440	8 200	8 220
MERCOSUR	0	0	0	0	0
NAFTA	8 510	7 900	8 440	8 200	8 220
OECD	31 902	36 781	37 425	36 215	40 562
SADC	0	0	0	0	0

## Selenium

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	2 188	2 089	2 195	1 744	1 688
Developing C.	966	955	1 045	999	1 029
Least Developed C.	0	0	0	0	0
Transition C.	257	231	239	312	271
<b>Total</b>	<b>3 411</b>	<b>3 275</b>	<b>3 479</b>	<b>3 055</b>	<b>2 988</b>
Annual per capita income:					
High Income	2 358	2 089	2 195	1 744	1 688
Upper Middle Income	947	1 078	1 166	1 144	1 135
Lower Middle Income	106	108	118	167	165
Low Income	0	0	0	0	0
<b>Total</b>	<b>3 411</b>	<b>3 275</b>	<b>3 479</b>	<b>3 055</b>	<b>2 988</b>
Political stability:					
Stable	94	156	175	0	0
Fair	2 161	1 950	2 051	1 811	1 726
Unstable	1 156	1 169	1 163	1 244	1 262
Extreme Unstable	0	0	90	0	0
<b>Total</b>	<b>3 411</b>	<b>3 275</b>	<b>3 479</b>	<b>3 055</b>	<b>2 988</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	70	70	90	100	100
BRICS	906	926	986	931	952
CPE	720	729	772	720	750
EC	1 104	1 070	1 146	764	715
EFTA	0	0	0	0	0
G7	1 784	1 679	1 749	1 280	1 273
MERCOSUR	0	0	0	0	0
NAFTA	422	345	418	300	312
OECD	2 308	2 188	2 316	1 856	1 795
SADC	0	0	0	0	0

## Tellurium

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	131	134	144	96	132
Developing C.	189	277	279	470	480
Least Developed C.	0	0	0	0	0
Transition C.	33	35	40	44	35
<b>Total</b>	<b>353</b>	<b>446</b>	<b>463</b>	<b>610</b>	<b>647</b>

Annual per capita income:

High Income	159	130	140	91	128
Upper Middle Income	194	316	323	519	519
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	353	446	463	610	647

Political stability:

Stable	0	10	18	0	0
Fair	131	124	126	96	132
Unstable	222	312	319	514	515
Extreme Unstable	0	0	0	0	0
Total	353	446	463	610	647

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	213	312	319	514	515
CPE	180	277	279	470	480
EC	36	37	43	40	49
EFTA	0	0	0	0	0
G7	95	97	101	56	83
MERCOSUR	0	0	0	0	0
NAFTA	58	60	68	18	25
OECD	126	130	140	91	128
SADC	0	0	0	0	0

## Tin

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	6 973	7 216	6 840	7 762	7 234
Developing C.	256 259	251 118	218 080	224 530	240 662
Least Developed C.	44 237	66 122	71 685	82 353	68 435
Transition C.	321	578	627	3 300	1 531
Total	307 790	325 034	297 232	317 945	317 862
Annual per capita income:					
High Income	7 294	7 216	6 840	7 762	7 234
Upper Middle Income	154 674	154 503	130 425	118 131	128 561
Lower Middle Income	137 367	155 654	150 687	177 974	169 527
Low Income	8 455	7 661	9 280	14 078	12 540
Total	307 790	325 034	297 232	317 945	317 862

Political stability:

Stable	0	0	0	0	0
Fair	11 592	19 046	16 496	21 956	21 397
Unstable	289 653	299 068	270 739	277 215	225 039
Extreme Unstable	6 545	6 920	9 997	18 774	71 426
<b>Total</b>	<b>307 790</b>	<b>325 034</b>	<b>297 232</b>	<b>317 945</b>	<b>317 862</b>

Country groups and economic blocks:

ACP	10 940	9 959	12 723	22 338	20 390
ASEAN	118 899	137 374	133 966	156 455	148 295
BRICS	127 974	130 798	107 429	95 194	106 066
CPE	106 232	114 640	96 103	79 770	92 909
EC	75	58	205	360	363
EFTA	0	0	0	0	0
G7	0	16	144	255	220
MERCOSUR	25 534	20 010	15 183	17 081	17 100
NAFTA	0	0	0	0	0
OECD	6 973	7 216	6 840	7 762	7 234
SADC	4 071	4 701	6 607	10 459	8 956

## Zinc

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
<b>Development status:</b>					
Developed C.	3 442 856	3 446 644	2 710 490	2 651 577	3 003 328
Developing C.	9 363 416	9 162 731	8 834 202	8 728 773	8 610 207
Least Developed C.	88 517	86 195	141 687	212 417	240 529
Transition C.	701 189	724 501	757 720	787 020	788 936
<b>Total</b>	<b>13 595 978</b>	<b>13 420 071</b>	<b>12 444 099</b>	<b>12 379 787</b>	<b>12 643 000</b>
<b>Annual per capita income:</b>					
High Income	3 715 448	3 496 515	2 739 560	2 709 064	3 039 408
Upper Middle Income	8 323 620	8 311 136	7 957 727	7 784 913	7 731 301
Lower Middle Income	1 444 493	1 486 075	1 548 375	1 557 603	1 520 672
Low Income	112 417	126 345	198 437	328 207	351 619
<b>Total</b>	<b>13 595 978</b>	<b>13 420 071</b>	<b>12 444 099</b>	<b>12 379 787</b>	<b>12 643 000</b>
<b>Political stability:</b>					
Stable	46 063	289 584	321 272	0	0
Fair	4 046 202	3 431 355	2 981 830	3 208 472	3 605 386
Unstable	9 483 976	9 498 657	8 988 610	8 961 488	8 575 927
Extreme Unstable	19 737	200 475	152 387	209 827	461 687
<b>Total</b>	<b>13 595 978</b>	<b>13 420 071</b>	<b>12 444 099</b>	<b>12 379 787</b>	<b>12 643 000</b>

Country groups and economic blocks:

ACP	269 858	252 915	311 158	395 185	445 316
ASEAN	71 220	77 320	62 920	40 530	47 390
BRICS	6 275 387	5 888 506	5 821 472	5 514 926	5 336 298
CPE	5 214 000	4 852 800	4 761 100	4 392 250	4 288 200
EC	753 963	722 356	699 592	678 837	780 368
EFTA	0	0	0	0	0
G7	1 182 925	1 114 284	1 126 072	1 120 576	1 111 119
MERCOSUR	197 804	187 424	180 989	179 740	189 299
NAFTA	1 842 803	1 901 058	1 792 968	1 792 020	1 773 474
OECD	4 345 058	4 437 869	3 520 926	3 491 229	3 859 933
SADC	195 178	165 390	171 752	175 035	147 486

### 6.3.3 Precious Metals

#### Gold

	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg
Development status:					
Developed C.	682 507	702 703	727 452	755 816	776 000
Developing C.	1 607 734	1 645 116	1 723 198	1 698 260	1 704 642
Least Developed C.	305 830	319 680	343 236	393 132	375 912
Transition C.	431 767	452 827	464 069	490 324	511 053
Total	3 027 838	3 120 326	3 257 955	3 337 532	3 367 607
Annual per capita income:					
High Income	1 036 626	742 173	772 258	855 376	816 004
Upper Middle Income	1 183 908	1 528 524	1 563 741	1 488 765	1 525 476
Lower Middle Income	577 509	603 954	658 920	686 641	758 953
Low Income	229 795	245 675	263 036	306 750	267 174
Total	3 027 838	3 120 326	3 257 955	3 337 532	3 367 607
Political stability:					
Stable	20 074	175 191	173 789	10 288	10 045
Fair	908 472	724 076	826 416	1 185 246	1 218 589
Unstable	1 926 837	2 001 887	2 006 762	1 890 984	1 882 153
Extreme Unstable	172 455	219 172	250 988	251 014	256 820
Total	3 027 838	3 120 326	3 257 955	3 337 532	3 367 607



Country groups and economic blocks:

ACP	720 187	726 411	806 122	880 294	860 001
ASEAN	103 856	130 097	129 479	134 548	165 375
BRICS	934 964	934 207	945 029	915 097	880 473
CPE	482 449	481 421	482 520	456 548	432 374
EC	27 322	27 259	26 853	30 305	32 408
EFTA	0	0	0	0	0
G7	369 651	384 011	398 651	421 715	419 319
MERCOSUR	143 983	148 329	152 919	149 828	148 868
NAFTA	480 308	511 071	525 742	542 166	554 009
OECD	868 853	898 228	921 831	932 758	970 406
SADC	239 684	252 072	254 683	254 947	243 544

## Palladium

	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg
Development status:					
Developed C.	35 894	36 361	35 811	34 378	36 849
Developing C.	70 108	94 102	89 795	93 935	94 023
Least Developed C.	0	0	0	0	0
Transition C.	80 553	75 732	86 523	76 320	92 625
Total	186 555	206 195	212 129	204 633	223 497

Annual per capita income:

High Income	116 424	36 361	35 811	34 378	36 849
Upper Middle Income	59 993	159 779	164 096	158 433	174 554
Lower Middle Income	0	0	0	0	12 094
Low Income	10 138	10 055	12 222	11 822	0
Total	186 555	206 195	212 129	204 633	223 497

Political stability:

Stable	808	22 600	21 200	0	0
Fair	35 669	13 939	14 634	34 428	36 904
Unstable	150 078	169 656	176 295	170 205	186 593
Extreme Unstable	0	0	0	0	0
Total	186 555	206 195	212 129	204 633	223 497

Country groups and economic blocks:

ACP	69 108	92 902	88 495	92 535	92 723
ASEAN	0	0	0	0	0
BRICS	139 940	159 601	164 073	158 383	174 499
CPE	1 000	1 200	1 300	1 400	1 300
EC	833	804	931	1 028	1 162
EFTA	0	0	0	0	0
G7	34 448	35 132	34 270	32 740	35 257
MERCOSUR	0	0	0	0	0
NAFTA	34 448	35 132	34 270	32 740	35 257
OECD	35 894	36 361	35 811	34 378	36 849
SADC	69 108	92 902	88 495	92 535	92 723

## Platinum

	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg
Development status:					
Developed C.	13 608	14 807	14 971	12 414	13 209
Developing C.	109 340	154 881	152 268	149 824	154 525
Least Developed C.	0	0	0	0	0
Transition C.	21 773	20 841	22 303	22 403	21 376
<b>Total</b>	<b>144 721</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 110</b>
Annual per capita income:					
High Income	35 378	14 807	14 971	12 414	13 209
Upper Middle Income	96 860	163 158	159 461	157 970	161 198
Lower Middle Income	0	0	0	0	14 703
Low Income	12 483	12 564	15 110	14 257	0
<b>Total</b>	<b>144 721</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 110</b>
Political stability:					
Stable	1 060	10 000	9 700	0	0
Fair	12 675	4 840	5 274	12 417	13 215
Unstable	130 986	175 689	174 568	172 224	175 895
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>144 721</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 110</b>
Country groups and economic blocks:					
ACP	106 598	151 720	148 351	146 757	151 756
ASEAN	0	0	0	0	0
BRICS	117 361	162 264	158 541	157 400	160 923
CPE	1 600	2 300	3 000	2 500	2 500
EC	1 100	1 032	1 228	1 429	1 584
EFTA	0	0	0	0	0
G7	12 355	13 667	13 591	10 830	11 515
MERCOSUR	0	0	0	0	0
NAFTA	12 355	13 667	13 591	10 830	11 515
OECD	13 608	14 807	14 971	12 414	13 209
SADC	106 598	151 720	148 351	146 757	151 756

## Rhodium

	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg
Development status:					
Developed C.	674	626	753	700	850
Developing C.	14 056	19 850	20 559	19 948	19 942
Least Developed C.	0	0	0	0	0
Transition C.	2 488	2 488	2 644	2 426	2 146
<b>Total</b>	<b>17 218</b>	<b>22 964</b>	<b>23 956</b>	<b>23 074</b>	<b>22 938</b>

Annual per capita income:

High Income	3 162	626	753	700	850
Upper Middle Income	12 916	21 210	21 881	21 091	20 754
Lower Middle Income	0	0	0	0	1 334
Low Income	1 140	1 128	1 322	1 283	0
Total	17 218	22 964	23 956	23 074	22 938

Political stability:

Stable	0	530	650	0	0
Fair	674	96	103	700	850
Unstable	16 544	22 338	23 203	22 374	22 088
Extreme Unstable	0	0	0	0	0
Total	17 218	22 964	23 956	23 074	22 938

Country groups and economic blocks:

ACP	14 056	19 850	20 559	19 948	19 942
ASEAN	0	0	0	0	0
BRICS	15 404	21 210	21 881	21 091	20 754
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	674	626	753	700	850
MERCOSUR	0	0	0	0	0
NAFTA	674	626	753	700	850
OECD	674	626	753	700	850
SADC	14 056	19 850	20 559	19 948	19 942

## Silver

	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg
Development status:					
Developed C.	5 311 987	4 779 994	4 977 177	4 555 459	4 528 870
Developing C.	19 282 654	19 973 209	19 955 867	19 513 069	20 516 350
Least Developed C.	114 158	116 293	93 832	70 200	96 306
Transition C.	2 592 460	3 150 899	2 926 101	2 655 322	2 557 261
Total	27 301 259	28 020 395	27 952 977	26 794 050	27 698 787

Annual per capita income:

High Income	9 247 548	6 237 396	6 419 376	6 814 945	5 853 362
Upper Middle Income	14 677 577	18 092 781	17 714 812	17 028 241	18 972 114
Lower Middle Income	3 254 198	3 576 689	3 726 861	2 848 955	2 736 910
Low Income	121 936	113 529	91 928	101 909	136 401
Total	27 301 259	28 020 395	27 952 977	26 794 050	27 698 787

Political stability:

Stable	28 641	396 305	406 469	8 022	6 332
Fair	9 084 413	7 279 586	8 562 606	8 166 904	8 180 425
Unstable	18 177 231	20 146 944	18 769 221	18 458 508	19 250 930
Extreme Unstable	10 974	197 560	214 681	160 616	261 100
<b>Total</b>	<b>27 301 259</b>	<b>28 020 395</b>	<b>27 952 977</b>	<b>26 794 050</b>	<b>27 698 787</b>

Country groups and economic blocks:

ACP	371 398	293 869	324 883	322 706	353 479
ASEAN	260 145	305 131	351 759	404 762	377 599
BRICS	5 342 182	5 523 889	5 585 331	5 475 228	5 672 649
CPE	3 605 354	3 551 295	3 705 602	3 639 444	3 708 542
EC	1 766 485	1 858 775	1 994 413	2 001 066	1 962 349
EFTA	0	0	0	0	0
G7	1 682 844	1 478 423	1 556 599	1 426 196	1 305 709
MERCOSUR	1 022 250	1 219 388	1 104 493	1 044 361	1 073 368
NAFTA	7 444 965	7 428 958	7 026 477	7 237 822	8 545 358
OECD	12 768 381	12 378 597	12 063 814	11 778 276	13 292 347
SADC	93 654	73 519	79 143	83 313	65 758

## 6.3.4 Industrial Minerals

### Asbestos

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	0	0	0	0	0
Developing C.	711 227	482 182	380 800	254 120	271 000
Least Developed C.	0	0	0	0	0
Transition C.	946 168	827 490	906 275	902 950	955 400
<b>Total</b>	<b>1 657 395</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 400</b>
Annual per capita income:					
High Income	733 068	0	0	26	0
Upper Middle Income	924 327	1 309 672	1 287 075	1 157 044	1 226 400
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>1 657 395</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 400</b>
Political stability:					
Stable	0	0	0	0	0
Fair	213 100	130	192 600	192 726	202 900
Unstable	1 444 295	1 309 542	1 094 475	964 344	1 023 500
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>1 657 395</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 400</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	1 444 295	1 129 742	1 094 475	964 344	1 023 500
CPE	400 000	250 000	203 000	125 000	170 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	311 227	232 182	177 800	129 120	101 000
NAFTA	0	0	0	0	0
OECD	0	0	0	0	0
SADC	0	0	0	0	0

## Baryte

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	889 151	679 314	437 512	561 835	597 853
Developing C.	7 770 060	8 056 602	7 222 909	7 565 000	7 729 221
Least Developed C.	53 670	36 685	35 867	36 531	44 658
Transition C.	870 500	962 300	1 046 300	790 900	835 300
Total	9 583 381	9 734 901	8 742 588	8 954 266	9 207 032

Annual per capita income:

High Income	1 132 416	619 314	387 512	513 388	527 853
Upper Middle Income	6 098 027	6 279 338	6 110 082	5 326 374	5 623 924
Lower Middle Income	2 352 918	2 824 249	2 235 994	3 110 304	3 051 055
Low Income	20	12 000	9 000	4 200	4 200
Total	9 583 381	9 734 901	8 742 588	8 954 266	9 207 032

Political stability:

Stable	0	42 000	20 000	0	0
Fair	1 592 101	822 381	1 155 441	1 250 613	1 260 078
Unstable	7 847 129	8 088 681	7 083 513	7 314 778	6 905 697
Extreme Unstable	144 151	781 839	483 634	388 875	1 041 257
Total	9 583 381	9 734 901	8 742 588	8 954 266	9 207 032

Country groups and economic blocks:

ACP	7 113	3 323	537	717	387
ASEAN	301 206	347 306	338 968	254 485	162 148
BRICS	5 328 603	4 464 022	4 479 333	5 387 490	5 382 300
CPE	4 212 020	3 136 000	2 860 100	3 174 200	3 154 200
EC	172 475	198 297	178 373	168 877	175 318
EFTA	0	0	0	0	0
G7	833 575	593 297	357 373	473 177	510 218
MERCOSUR	19 654	30 677	24 522	31 828	24 225
NAFTA	832 914	740 700	425 781	743 912	939 980
OECD	1 204 049	1 540 957	882 532	1 150 194	1 516 971
SADC	0	0	0	0	0

## Bentonite

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	7 490 363	7 196 246	6 889 773	7 543 162	8 104 761
Developing C.	8 207 605	10 280 638	11 743 838	12 398 657	11 833 819
Least Developed C.	739	1 050	922	885	1 631
Transition C.	910 799	870 301	1 092 027	1 266 485	1 324 803
<b>Total</b>	<b>16 609 506</b>	<b>18 348 235</b>	<b>19 726 560</b>	<b>21 209 189</b>	<b>21 265 014</b>
Annual per capita income:					
High Income	8 291 820	7 199 416	6 899 449	7 673 337	8 065 061
Upper Middle Income	6 531 105	9 206 247	9 455 671	9 705 634	9 761 192
Lower Middle Income	1 785 842	1 942 222	3 371 118	3 829 933	3 437 670
Low Income	739	350	322	285	1 091
<b>Total</b>	<b>16 609 506</b>	<b>18 348 235</b>	<b>19 726 560</b>	<b>21 209 189</b>	<b>21 265 014</b>
Political stability:					
Stable	1 000	700	700	700	4 482
Fair	6 864 025	6 386 566	6 300 270	6 787 531	8 445 987
Unstable	9 480 237	8 578 275	11 431 810	12 782 506	10 805 978
Extreme Unstable	264 244	3 382 694	1 993 780	1 638 452	2 008 567
<b>Total</b>	<b>16 609 506</b>	<b>18 348 235</b>	<b>19 726 560</b>	<b>21 209 189</b>	<b>21 265 014</b>
Country groups and economic blocks:					
ACP	172 558	166 385	149 453	166 015	175 207
ASEAN	10 370	11 180	10 830	10 220	8 200
BRICS	6 009 288	6 411 142	9 671 216	10 423 105	9 987 486
CPE	3 600 700	3 650 500	5 600 389	5 600 589	5 600 630
EC	2 339 363	2 540 546	2 330 073	2 544 462	2 866 045
EFTA	0	0	0	0	3 234
G7	5 506 264	5 022 074	4 981 545	5 456 603	5 684 763
MERCOSUR	693 376	751 574	506 389	663 390	692 729
NAFTA	5 099 625	4 374 236	4 109 176	4 578 475	4 934 800
OECD	8 981 881	10 497 275	8 629 703	9 044 446	9 555 256
SADC	171 858	165 885	149 064	165 426	174 577

## Boron

	2014	2015	2016	2017	2018
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	1 118 000	1 218 000	1 134 000	1 075 000	1 075 000
Developing C.	3 250 295	3 424 430	2 834 757	3 041 232	3 299 429
Least Developed C.	0	0	0	0	0
Transition C.	111 234	112 000	108 800	112 500	118 000
<b>Total</b>	<b>4 479 529</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>

Annual per capita income:

High Income	2 090 825	1 735 584	1 692 854	1 811 994	1 473 411
Upper Middle Income	2 236 905	2 870 108	2 202 018	2 208 350	2 802 615
Lower Middle Income	151 799	148 738	182 685	208 388	216 403
Low Income	0	0	0	0	0
<b>Total</b>	<b>4 479 529</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>

Political stability:

Stable	0	0	0	0	0
Fair	2 039 591	1 984 267	1 871 244	1 841 994	1 574 623
Unstable	2 439 938	930 163	375 313	361 738	484 955
Extreme Unstable	0	1 840 000	1 831 000	2 025 000	2 432 851
<b>Total</b>	<b>4 479 529</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	178 234	172 000	158 800	152 500	168 000
CPE	97 000	90 000	80 000	70 000	80 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1 118 000	1 218 000	1 134 000	1 075 000	1 075 000
MERCOSUR	395 058	248 683	148 390	129 918	71 212
NAFTA	1 118 000	1 218 000	1 134 000	1 075 000	1 075 000
OECD	3 484 533	3 575 584	3 523 854	3 707 076	3 905 411
SADC	0	0	0	0	0

## Diamonds (Gem)

	2014 ct	2015 ct	2016 ct	2017 ct	2018 ct
Development status:					
Developed C.	12 197 379	11 948 691	13 594 479	23 541 451	23 069 161
Developing C.	23 997 012	20 817 543	20 390 355	22 616 770	24 185 584
Least Developed C.	12 197 467	12 131 538	12 052 270	11 633 487	10 643 880
Transition C.	22 982 100	25 147 434	24 431 760	21 860 500	22 973 133
<b>Total</b>	<b>71 373 958</b>	<b>70 045 206</b>	<b>70 468 864</b>	<b>79 652 208</b>	<b>80 871 758</b>

Annual per capita income:

High Income	35 179 479	11 948 691	13 594 479	23 541 451	23 069 161
Upper Middle Income	30 169 717	52 909 951	44 037 637	43 633 505	46 119 402
Lower Middle Income	340 810	224 920	8 332 281	8 811 605	8 865 995
Low Income	5 683 952	4 961 644	4 504 467	3 665 647	2 817 200
<b>Total</b>	<b>71 373 958</b>	<b>70 045 206</b>	<b>70 468 864</b>	<b>79 652 208</b>	<b>80 871 758</b>

Political stability:

Stable	0	11 677 471	13 315 319	0	0
Fair	31 248 981	16 524 128	16 397 210	41 383 491	42 165 456
Unstable	36 759 377	38 658 907	37 634 472	35 952 545	36 879 737
Extreme Unstable	3 365 600	3 184 700	3 121 863	2 316 172	1 826 565
<b>Total</b>	<b>71 373 958</b>	<b>70 045 206</b>	<b>70 468 864</b>	<b>79 652 208</b>	<b>80 871 758</b>

Country groups and economic blocks:

ACP	36 172 805	32 925 794	32 367 968	34 152 972	34 732 735
ASEAN	0	0	0	0	0
BRICS	26 227 301	28 463 941	27 828 637	25 834 825	27 034 772
CPE	0	0	127	230	99
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	12 011 619	11 677 471	13 315 319	23 198 761	22 789 001
MERCOSUR	18 785	10 503	60 560	84 115	83 610
NAFTA	12 011 619	11 677 471	13 315 319	23 198 761	22 789 001
OECD	12 197 379	11 948 691	13 594 479	23 541 451	23 069 161
SADC	35 198 171	32 066 747	31 583 718	33 649 217	33 958 240

## Diamonds (Ind)

	2014 ct	2015 ct	2016 ct	2017 ct	2018 ct
<b>Development status:</b>					
Developed C.	9 102 360	13 289 580	13 678 840	16 792 040	13 727 890
Developing C.	15 868 763	13 781 577	13 048 621	14 822 271	15 915 668
Least Developed C.	14 686 147	13 937 040	13 845 693	18 729 062	15 693 885
Transition C.	15 321 400	16 764 956	16 287 840	20 754 280	20 187 926
<b>Total</b>	<b>54 978 670</b>	<b>57 773 153</b>	<b>56 860 994</b>	<b>71 097 653</b>	<b>65 525 369</b>
<b>Annual per capita income:</b>					
High Income	24 423 760	13 289 580	13 678 840	16 792 040	13 727 890
Upper Middle Income	13 240 180	28 993 042	27 775 045	33 726 160	33 739 256
Lower Middle Income	440 340	346 771	1 244 034	1 939 901	4 240 628
Low Income	16 874 390	15 143 760	14 163 075	18 639 552	13 817 595
<b>Total</b>	<b>54 978 670</b>	<b>57 773 153</b>	<b>56 860 994</b>	<b>71 097 653</b>	<b>65 525 369</b>
<b>Political stability:</b>					
Stable	0	0	0	0	0
Fair	16 594 023	19 624 996	20 024 790	23 781 925	21 157 305
Unstable	25 049 747	25 536 867	24 386 154	30 669 336	31 047 089
Extreme Unstable	13 334 900	12 611 290	12 450 050	16 646 392	13 320 975
<b>Total</b>	<b>54 978 670</b>	<b>57 773 153</b>	<b>56 860 994</b>	<b>71 097 653</b>	<b>65 525 369</b>



Country groups and economic blocks:

ACP	30 483 554	27 674 034	26 748 839	33 353 793	31 413 793
ASEAN	0	0	0	0	0
BRICS	20 228 046	21 749 379	21 416 645	26 767 380	26 331 046
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	38 138	21 323	122 955	170 780	169 330
NAFTA	0	0	0	0	0
OECD	9 102 360	13 289 580	13 678 840	16 792 040	13 727 890
SADC	30 183 332	27 407 801	26 481 720	33 068 672	30 892 110

## Diatomite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	1 249 312	1 117 729	966 164	1 074 135	1 247 984
Developing C.	1 047 527	858 602	824 289	1 018 428	918 465
Least Developed C.	4 078	4 000	5 305	4 000	39 200
Transition C.	20 439	18 915	25 486	23 465	0
Total	2 321 356	1 999 246	1 821 244	2 120 028	2 205 649

Annual per capita income:

High Income	1 536 244	1 159 225	1 013 665	1 305 852	1 298 622
Upper Middle Income	759 400	816 016	775 550	808 770	866 279
Lower Middle Income	21 634	20 005	26 724	1 406	1 548
Low Income	4 078	4 000	5 305	4 000	39 200
Total	2 321 356	1 999 246	1 821 244	2 120 028	2 205 649

Political stability:

Stable	43 624	0	0	0	0
Fair	1 503 471	1 240 713	1 001 278	1 310 070	1 375 084
Unstable	769 066	667 877	753 006	636 374	582 776
Extreme Unstable	5 195	90 656	66 960	173 584	247 789
Total	2 321 356	1 999 246	1 821 244	2 120 028	2 205 649

Country groups and economic blocks:

ACP	5 273	5 090	6 543	5 406	40 748
ASEAN	0	0	0	0	0
BRICS	435 080	425 530	416 408	416 000	296 000
CPE	430 000	420 000	400 000	400 000	280 000
EC	303 009	280 806	279 131	305 050	290 980
EFTA	0	0	0	0	0
G7	991 000	922 000	776 000	858 000	1 047 000
MERCOSUR	195 119	66 481	73 521	86 419	88 490
NAFTA	988 849	921 810	795 970	864 474	1 109 028
OECD	1 495 938	1 335 691	1 185 357	1 501 491	1 693 439
SADC	78	0	1 305	0	34 200

## Feldspar

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	10 481 532	9 346 151	10 073 200	10 092 684	10 273 766
Developing C.	20 601 315	22 959 688	25 480 581	25 828 194	26 419 687
Least Developed C.	50 680	28 238	49 000	29 000	36 000
Transition C.	320 582	269 749	331 646	349 537	362 113
<b>Total</b>	<b>31 454 109</b>	<b>32 603 826</b>	<b>35 934 427</b>	<b>36 299 415</b>	<b>37 091 566</b>
Annual per capita income:					
High Income	11 640 241	10 119 714	10 917 909	11 161 422	11 050 096
Upper Middle Income	14 388 319	17 393 486	16 358 712	17 427 556	19 084 372
Lower Middle Income	5 425 549	5 090 626	8 657 806	7 710 437	6 957 098
Low Income	0	0	0	0	0
<b>Total</b>	<b>31 454 109</b>	<b>32 603 826</b>	<b>35 934 427</b>	<b>36 299 415</b>	<b>37 091 566</b>
Political stability:					
Stable	81 233	0	0	0	0
Fair	11 517 566	10 690 012	10 792 473	11 394 341	11 433 702
Unstable	19 256 872	11 124 502	14 956 445	14 006 033	12 554 274
Extreme Unstable	598 438	10 789 312	10 185 509	10 899 041	13 103 590
<b>Total</b>	<b>31 454 109</b>	<b>32 603 826</b>	<b>35 934 427</b>	<b>36 299 415</b>	<b>37 091 566</b>
Country groups and economic blocks:					
ACP	238 201	194 802	222 006	187 080	156 858
ASEAN	3 300 206	3 017 863	3 008 933	4 445 129	3 576 803
BRICS	6 092 238	6 485 265	9 536 538	7 470 250	7 458 103
CPE	2 303 600	2 353 300	2 405 790	2 508 715	2 501 500
EC	9 799 052	8 680 298	9 466 432	9 547 355	9 618 224
EFTA	1 278	76	0	0	0
G7	9 216 646	8 024 326	8 644 218	8 595 000	8 705 000
MERCOSUR	570 416	719 009	509 455	475 480	454 880
NAFTA	680 726	679 372	788 169	940 692	1 457 755
OECD	19 118 723	20 522 652	20 523 437	21 583 547	23 255 917
SADC	102 541	130 184	127 872	116 705	76 803

## Fluorspar

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	334 482	337 288	199 083	182 245	170 197
Developing C.	5 926 785	5 957 873	5 371 140	5 521 942	6 671 216
Least Developed C.	4 108	5 500	7 624	7 522	10 000
Transition C.	8 200	1 000	3 000	2 700	6 000
<b>Total</b>	<b>6 273 575</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 714 409</b>	<b>6 857 413</b>

Annual per capita income:

High Income	251 315	205 388	194 683	195 941	170 197
Upper Middle Income	5 729 315	5 432 089	4 777 992	4 862 781	5 795 959
Lower Middle Income	283 837	654 684	596 023	641 265	874 357
Low Income	9 108	9 500	12 149	14 422	16 900
<b>Total</b>	<b>6 273 575</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 714 409</b>	<b>6 857 413</b>

Political stability:

Stable	0	0	0	0	0
Fair	787 199	896 870	681 083	750 176	972 051
Unstable	5 376 712	5 385 988	4 828 651	4 933 298	5 811 385
Extreme Unstable	109 664	18 803	71 113	30 935	73 977
<b>Total</b>	<b>6 273 575</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 714 409</b>	<b>6 857 413</b>

Country groups and economic blocks:

ACP	361 194	191 412	219 656	225 344	230 000
ASEAN	100 084	229 095	238 978	240 405	255 400
BRICS	3 999 050	4 552 000	3 999 435	4 041 412	3 751 650
CPE	4 213 794	4 898 300	4 272 303	4 361 135	4 300 830
EC	334 482	337 288	199 083	182 245	170 197
EFTA	0	0	0	0	0
G7	83 100	74 741	64 552	56 375	60 197
MERCOSUR	63 282	92 633	32 482	32 696	22 924
NAFTA	1 109 721	624 574	659 776	741 678	1 959 089
OECD	1 317 674	836 200	864 798	944 073	2 135 486
SADC	264 038	121 316	177 000	218 399	230 000

## Graphite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	38 975	40 028	31 252	24 172	21 372
Developing C.	1 038 320	1 055 350	1 034 806	825 461	839 576
Least Developed C.	5 316	8 100	9 230	14 102	151 900
Transition C.	23 000	25 900	31 400	38 400	34 200
<b>Total</b>	<b>1 105 611</b>	<b>1 129 378</b>	<b>1 106 688</b>	<b>902 135</b>	<b>1 047 048</b>

Annual per capita income:

High Income	54 875	40 090	31 252	24 172	22 042
Upper Middle Income	880 036	885 086	875 287	761 926	774 206
Lower Middle Income	128 531	149 740	138 297	50 358	53 900
Low Income	42 169	54 462	61 852	65 679	196 900
<b>Total</b>	<b>1 105 611</b>	<b>1 129 378</b>	<b>1 106 688</b>	<b>902 135</b>	<b>1 047 048</b>

Political stability:

Stable	150	30 000	21 000	0	0
Fair	39 725	15 202	10 252	26 388	25 498
Unstable	1 057 736	1 074 176	1 063 436	858 747	989 798
Extreme Unstable	8 000	10 000	12 000	17 000	31 752
<b>Total</b>	<b>1 105 611</b>	<b>1 129 378</b>	<b>1 106 688</b>	<b>902 135</b>	<b>1 047 048</b>

Country groups and economic blocks:

ACP	12 169	14 462	14 852	17 895	155 356
ASEAN	0	0	0	0	0
BRICS	998 738	1 013 190	983 524	778 958	784 900
CPE	810 000	820 000	827 000	675 000	675 000
EC	667	843	652	572	372
EFTA	8 308	9 185	9 600	9 600	10 000
G7	30 517	30 398	21 502	14 422	11 222
MERCOSUR	87 926	82 662	61 687	95 000	96 800
NAFTA	39 160	36 524	35 200	24 310	15 198
OECD	51 985	46 614	45 452	38 482	42 992
SADC	12 169	14 462	14 852	17 895	155 356

## Gypsum and Anhydrite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	49 096 944	44 015 950	49 913 114	51 103 122	55 284 812
Developing C.	91 822 655	90 838 294	96 965 447	95 785 762	97 434 189
Least Developed C.	1 940 762	2 425 848	1 894 358	1 897 063	2 358 840
Transition C.	6 953 674	6 357 444	6 517 918	6 433 714	7 907 337
<b>Total</b>	<b>149 814 035</b>	<b>143 637 536</b>	<b>155 290 837</b>	<b>155 219 661</b>	<b>162 985 178</b>
Annual per capita income:					
High Income	60 184 308	52 910 579	60 855 161	64 271 696	68 368 850
Upper Middle Income	80 816 884	81 457 486	85 484 721	81 250 828	84 087 827
Lower Middle Income	8 510 164	8 856 169	8 598 655	9 288 190	9 871 276
Low Income	302 679	413 302	352 300	408 947	657 225
<b>Total</b>	<b>149 814 035</b>	<b>143 637 536</b>	<b>155 290 837</b>	<b>155 219 661</b>	<b>162 985 178</b>
Political stability:					
Stable	1 069 892	2 046 216	2 018 573	340 000	340 000
Fair	55 015 975	51 662 008	54 681 904	62 293 749	67 827 790
Unstable	88 103 828	75 945 549	82 733 261	76 340 096	67 024 609
Extreme Unstable	5 624 340	13 983 763	15 857 099	16 245 816	27 792 779
<b>Total</b>	<b>149 814 035</b>	<b>143 637 536</b>	<b>155 290 837</b>	<b>155 219 661</b>	<b>162 985 178</b>

Country groups and economic blocks:

ACP	1 695 344	1 672 361	1 408 823	1 310 625	1 486 734
ASEAN	14 084 452	13 235 079	12 470 036	11 478 698	12 133 783
BRICS	31 004 864	29 755 358	34 353 592	33 232 020	34 893 397
CPE	20 067 800	20 090 900	25 473 900	25 085 400	25 099 900
EC	24 830 395	19 217 831	24 200 455	23 476 171	26 051 235
EFTA	419 740	397 403	422 386	427 891	429 655
G7	33 158 134	27 499 618	31 848 375	32 933 977	35 693 601
MERCOSUR	5 036 788	4 481 011	4 237 044	3 393 316	3 016 717
NAFTA	27 136 272	27 627 828	29 176 411	32 898 910	35 542 793
OECD	64 349 585	58 795 281	67 061 579	70 033 392	76 617 989
SADC	904 532	598 900	476 201	476 330	598 257

## Kaolin

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	16 805 366	16 066 101	16 804 422	17 925 838	17 967 855
Developing C.	18 807 693	19 208 462	18 315 527	18 656 888	19 135 605
Least Developed C.	104 825	62 017	57 865	79 779	167 864
Transition C.	2 475 796	3 159 404	4 104 986	4 645 501	4 332 865
Total	38 193 680	38 495 984	39 282 800	41 308 006	41 604 189

Annual per capita income:

High Income	17 949 409	16 494 299	17 249 668	18 494 891	18 407 927
Upper Middle Income	13 567 769	14 083 745	14 066 009	14 777 589	15 482 789
Lower Middle Income	6 621 677	7 870 413	7 915 758	7 961 193	7 556 609
Low Income	54 825	47 527	51 365	74 333	156 864
Total	38 193 680	38 495 984	39 282 800	41 308 006	41 604 189

Political stability:

Stable	75 725	13 659	61 650	50 424	51 369
Fair	17 644 374	17 225 947	17 735 256	19 254 326	19 031 633
Unstable	18 656 113	17 263 893	17 569 684	17 944 770	17 702 800
Extreme Unstable	1 817 468	3 992 485	3 916 210	4 058 486	4 818 387
Total	38 193 680	38 495 984	39 282 800	41 308 006	41 604 189

Country groups and economic blocks:

ACP	154 083	104 743	106 610	160 400	206 995
ASEAN	1 203 323	1 186 735	1 332 610	1 394 238	1 283 053
BRICS	13 580 638	14 415 126	14 172 941	14 925 186	14 559 624
CPE	6 951 700	7 131 500	7 342 500	7 531 500	7 602 700
EC	10 601 080	10 077 077	11 218 543	12 111 264	12 200 748
EFTA	0	0	0	0	0
G7	12 033 313	11 150 191	11 654 803	12 557 858	12 721 513
MERCOSUR	2 110 892	1 877 214	1 769 198	1 796 940	1 573 000
NAFTA	6 506 437	6 176 049	5 742 070	5 885 864	6 428 246
OECD	19 520 649	18 390 418	18 596 663	19 737 349	20 504 001
SADC	31 067	22 079	21 797	45 002	153 107

## Magnesite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	3 526 443	3 360 427	3 062 233	3 463 867	3 603 178
Developing C.	23 080 200	23 266 840	22 636 643	22 589 897	23 620 952
Least Developed C.	225	60	0	0	0
Transition C.	1 969 800	1 709 300	1 196 200	1 405 500	1 577 350
<b>Total</b>	<b>28 576 668</b>	<b>28 336 627</b>	<b>26 895 076</b>	<b>27 459 264</b>	<b>28 801 480</b>
Annual per capita income:					
High Income	5 567 243	3 437 427	3 162 233	3 567 999	3 758 178
Upper Middle Income	22 509 753	24 385 139	23 203 267	23 494 088	24 688 926
Lower Middle Income	319 247	364 402	368 641	224 689	181 876
Low Income	180 425	149 659	160 935	172 488	172 500
<b>Total</b>	<b>28 576 668</b>	<b>28 336 627</b>	<b>26 895 076</b>	<b>27 459 264</b>	<b>28 801 480</b>
Political stability:					
Stable	766 372	150 000	150 000	0	0
Fair	2 399 803	2 827 197	2 514 293	3 021 187	3 603 178
Unstable	25 406 723	22 019 591	20 926 800	22 724 350	23 078 414
Extreme Unstable	3 770	3 339 839	3 303 983	1 713 727	2 119 888
<b>Total</b>	<b>28 576 668</b>	<b>28 336 627</b>	<b>26 895 076</b>	<b>27 459 264</b>	<b>28 801 480</b>
Country groups and economic blocks:					
ACP	10 000	10 200	8 800	8 700	8 500
ASEAN	6 200	7 158	10 310	10 000	10 000
BRICS	22 118 019	21 108 388	19 989 273	21 700 733	22 628 180
CPE	18 610 200	17 589 599	17 000 935	18 672 488	19 172 500
EC	2 785 488	2 547 215	2 442 778	3 103 023	3 189 732
EFTA	0	0	0	0	0
G7	150 000	150 000	150 000	150 000	150 000
MERCOSUR	1 423 210	1 621 425	1 652 424	1 600 000	1 900 000
NAFTA	250 000	251 000	251 000	251 000	251 000
OECD	6 003 600	6 796 685	6 421 678	5 258 938	5 663 025
SADC	10 000	10 200	8 800	8 700	8 500

## Perlite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	1 497 078	1 447 945	1 493 030	1 585 863	1 373 297
Developing C.	1 061 485	999 429	1 190 605	715 901	1 256 376
Least Developed C.	0	0	0	0	0
Transition C.	129 904	102 657	89 820	59 036	96 222
<b>Total</b>	<b>2 688 467</b>	<b>2 550 031</b>	<b>2 773 455</b>	<b>2 360 800</b>	<b>2 725 895</b>

Annual per capita income:

High Income	1 565 558	1 450 945	1 498 530	1 609 997	1 378 317
Upper Middle Income	1 020 871	1 005 754	1 191 360	711 803	1 308 578
Lower Middle Income	102 038	93 332	83 565	39 000	39 000
Low Income	0	0	0	0	0
Total	2 688 467	2 550 031	2 773 455	2 360 800	2 725 895

Political stability:

Stable	0	0	0	0	0
Fair	535 230	583 557	595 025	677 047	1 397 111
Unstable	2 153 237	1 123 232	1 073 434	1 077 522	168 222
Extreme Unstable	0	843 242	1 104 996	606 231	1 160 562
Total	2 688 467	2 550 031	2 773 455	2 360 800	2 725 895

Country groups and economic blocks:

ACP	1 000	1 000	1 000	1 000	1 000
ASEAN	71 234	52 875	54 435	44 800	44 600
BRICS	46 000	46 000	46 000	46 000	46 000
CPE	0	0	0	0	0
EC	1 035 078	946 945	971 410	1 015 588	861 012
EFTA	0	0	0	0	0
G7	462 000	501 000	521 000	570 000	510 000
MERCOSUR	22 680	23 282	17 905	19 924	18 794
NAFTA	488 000	514 000	549 431	585 899	536 400
OECD	2 421 003	2 307 187	2 593 212	2 212 203	2 493 700
SADC	1 000	1 000	1 000	1 000	1 000

## Phosphates (P<sub>2</sub>O<sub>5</sub>-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	9 094 170	9 660 735	9 563 444	9 589 760	9 030 020
Developing C.	60 351 427	67 122 492	67 800 492	63 359 155	56 079 630
Least Developed C.	868 680	1 058 340	1 198 730	1 107 750	1 146 490
Transition C.	4 659 010	5 038 900	5 315 600	5 686 400	5 855 200
Total	74 973 287	82 880 467	83 878 266	79 743 065	72 111 340

Annual per capita income:

High Income	13 665 800	11 196 205	11 185 184	11 291 950	10 858 180
Upper Middle Income	48 538 997	58 581 382	56 992 942	52 330 405	44 782 840
Lower Middle Income	12 114 630	11 949 540	14 406 410	14 879 260	15 965 540
Low Income	653 860	1 153 340	1 293 730	1 241 450	504 780
Total	74 973 287	82 880 467	83 878 266	79 743 065	72 111 340

Political stability:

Stable	340 640	0	0	0	0
Fair	8 128 630	9 416 515	9 672 734	10 353 750	9 961 990
Unstable	64 689 697	72 061 792	73 163 072	68 004 195	61 610 890
Extreme Unstable	1 814 320	1 402 160	1 042 460	1 385 120	538 460
Total	74 973 287	82 880 467	83 878 266	79 743 065	72 111 340

Country groups and economic blocks:

ACP	1 630 580	1 752 340	1 832 330	1 886 450	1 889 890
ASEAN	746 110	882 950	951 440	1 387 400	1 635 710
BRICS	43 892 360	50 280 350	51 045 030	45 072 310	37 018 620
CPE	36 967 670	43 583 720	44 357 150	38 411 000	30 619 910
EC	340 640	344 360	338 230	352 300	356 070
EFTA	0	0	0	0	0
G7	7 110 000	7 710 000	7 615 000	7 840 000	7 250 000
MERCOSUR	2 531 030	2 174 370	2 088 900	1 889 320	1 801 800
NAFTA	7 630 040	8 288 830	8 603 280	8 532 150	7 498 950
OECD	9 647 480	10 281 935	10 637 144	10 135 210	9 152 400
SADC	868 160	699 430	599 430	728 270	720 670

## Potash (K<sub>2</sub>O-Content)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	18 006 360	17 929 792	17 298 649	18 987 824	20 348 485
Developing C.	7 604 161	9 266 228	9 554 809	9 299 086	9 073 121
Least Developed C.	189 400	255 100	198 600	307 600	343 500
Transition C.	13 696 360	13 410 900	12 743 100	14 486 800	14 608 596
Total	39 496 281	40 862 020	39 795 158	43 081 310	44 373 702
Annual per capita income:					
High Income	26 434 340	19 109 352	18 602 489	20 226 454	21 339 665
Upper Middle Income	12 776 181	21 394 568	19 688 929	22 462 256	22 598 237
Lower Middle Income	285 760	358 100	1 503 740	392 600	435 800
Low Income	0	0	0	0	0
Total	39 496 281	40 862 020	39 795 158	43 081 310	44 373 702
Political stability:					
Stable	0	11 461 530	10 789 662	0	0
Fair	23 849 140	13 073 822	12 098 427	18 407 354	26 879 961
Unstable	15 647 141	16 326 668	16 907 069	24 673 956	16 550 941
Extreme Unstable	0	0	0	0	942 800
Total	39 496 281	40 862 020	39 795 158	43 081 310	44 373 702



Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	189 400	255 100	198 600	307 600	343 500
BRICS	11 971 021	12 858 018	12 579 429	13 140 296	12 808 181
CPE	4 400 000	5 714 000	5 783 000	5 534 000	5 452 000
EC	4 483 805	4 431 262	3 905 887	3 818 429	3 655 185
EFTA	0	0	0	0	0
G7	15 445 096	15 964 833	14 533 303	16 303 656	17 589 185
MERCOSUR	311 021	304 018	316 429	306 296	201 181
NAFTA	11 667 955	12 201 530	11 299 662	13 042 695	14 544 000
OECD	19 174 340	19 109 352	18 602 489	20 226 454	21 339 665
SADC	0	0	0	0	0

## Salt

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	125 434 947	123 425 231	112 518 954	115 374 803	117 373 032
Developing C.	157 448 502	156 702 116	151 777 933	152 490 574	151 155 295
Least Developed C.	3 270 607	3 000 660	3 337 243	3 211 720	3 054 332
Transition C.	10 405 293	10 399 543	12 946 243	13 736 004	14 159 258
Total	296 559 349	293 527 550	280 580 373	284 813 101	285 741 917

Annual per capita income:

High Income	141 055 434	133 524 773	118 430 780	122 363 889	125 587 307
Upper Middle Income	113 244 841	115 924 637	117 216 531	117 352 542	111 734 366
Lower Middle Income	40 745 075	42 340 376	43 479 555	43 562 616	47 202 657
Low Income	1 513 999	1 737 764	1 453 507	1 534 054	1 217 587
Total	296 559 349	293 527 550	280 580 373	284 813 101	285 741 917

Political stability:

Stable	1 653 809	14 869 314	10 806 377	555 509	637 014
Fair	141 566 793	127 611 952	113 524 553	127 584 658	136 382 339
Unstable	145 964 289	137 827 029	140 363 438	140 020 537	132 544 343
Extreme Unstable	7 374 458	13 219 255	15 886 005	16 652 397	16 178 221
Total	296 559 349	293 527 550	280 580 373	284 813 101	285 741 917

Country groups and economic blocks:

ACP	4 968 051	4 441 559	3 793 977	3 831 031	4 624 147
ASEAN	5 573 926	5 976 426	4 149 497	4 645 033	6 675 829
BRICS	109 717 049	106 869 274	110 063 253	110 656 960	103 182 985
CPE	72 147 852	68 502 986	67 931 478	67 937 360	60 008 597
EC	50 503 219	50 273 456	47 769 185	50 126 790	50 146 062
EFTA	444 100	489 541	462 848	463 509	591 414
G7	88 542 854	88 766 834	78 274 126	78 652 194	79 890 963
MERCOSUR	9 648 656	9 718 792	9 962 599	10 129 065	9 984 020
NAFTA	69 982 070	69 104 400	62 395 947	60 594 403	62 565 583
OECD	146 784 025	146 272 268	131 337 151	133 607 803	139 045 962
SADC	2 014 299	1 964 984	2 070 542	2 057 017	2 252 755

## Sulfur

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	24 858 781	24 339 443	24 408 922	24 430 157	24 223 431
Developing C.	37 535 790	40 684 890	42 112 632	41 779 039	43 620 071
Least Developed C.	300 000	300 000	363 000	679 500	754 000
Transition C.	10 948 205	10 652 100	10 389 800	11 173 700	11 103 950
<b>Total</b>	<b>73 642 776</b>	<b>75 976 433</b>	<b>77 274 354</b>	<b>78 062 396</b>	<b>79 701 452</b>
Annual per capita income:					
High Income	46 204 121	40 693 856	42 157 339	41 817 066	42 219 487
Upper Middle Income	23 619 075	30 392 747	29 724 146	30 244 590	30 498 725
Lower Middle Income	3 777 580	4 869 330	5 382 869	5 990 740	6 973 240
Low Income	42 000	20 500	10 000	10 000	10 000
<b>Total</b>	<b>73 642 776</b>	<b>75 976 433</b>	<b>77 274 354</b>	<b>78 062 396</b>	<b>79 701 452</b>
Political stability:					
Stable	853 280	5 745 000	5 381 000	0	0
Fair	36 681 196	29 738 057	32 965 150	39 311 460	39 959 469
Unstable	35 650 628	40 033 346	37 354 635	37 505 496	36 174 743
Extreme Unstable	457 672	460 030	1 573 569	1 245 440	3 567 240
<b>Total</b>	<b>73 642 776</b>	<b>75 976 433</b>	<b>77 274 354</b>	<b>78 062 396</b>	<b>79 701 452</b>
Country groups and economic blocks:					
ACP	577 018	584 381	643 830	936 200	994 077
ASEAN	624 800	1 566 400	1 674 400	1 556 400	1 600 000
BRICS	25 335 226	24 076 581	24 639 730	24 750 600	25 997 777
CPE	14 695 400	13 821 600	13 918 100	13 498 700	13 772 700
EC	4 844 181	4 623 543	4 760 122	5 090 657	4 913 031
EFTA	130 000	110 000	110 000	100 000	120 000
G7	20 966 746	20 531 997	20 567 984	20 357 282	20 152 897
MERCOSUR	1 340 000	1 230 000	1 230 000	1 230 000	1 230 000
NAFTA	16 474 939	16 143 527	15 794 285	15 518 218	15 455 657
OECD	29 088 520	28 581 170	28 541 087	28 267 905	28 086 128
SADC	577 018	584 381	643 830	936 200	994 077

## Talc

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	2 345 065	2 332 534	2 362 275	2 466 148	2 395 108
Developing C.	6 553 945	5 134 483	5 087 148	5 387 766	5 323 712
Least Developed C.	18 304	14 062	8 371	12 389	14 599
Transition C.	150 483	150 598	150 729	150 478	150 559
<b>Total</b>	<b>9 067 797</b>	<b>7 631 677</b>	<b>7 608 523</b>	<b>8 016 781</b>	<b>7 883 978</b>

Annual per capita income:

High Income	3 178 349	2 976 512	2 997 062	2 959 870	2 790 339
Upper Middle Income	3 783 307	3 347 000	3 126 512	3 182 979	3 239 868
Lower Middle Income	2 050 438	1 252 910	1 443 089	1 826 836	1 805 214
Low Income	55 703	55 255	41 860	47 096	48 557
<b>Total</b>	<b>9 067 797</b>	<b>7 631 677</b>	<b>7 608 523</b>	<b>8 016 781</b>	<b>7 883 978</b>

Political stability:

Stable	511 929	175 000	199 000	0	0
Fair	2 522 504	2 801 093	2 324 589	2 917 163	2 759 453
Unstable	5 919 982	4 323 999	4 736 518	4 451 960	4 618 878
Extreme Unstable	113 382	331 585	348 416	647 658	505 647
<b>Total</b>	<b>9 067 797</b>	<b>7 631 677</b>	<b>7 608 523</b>	<b>8 016 781</b>	<b>7 883 978</b>

Country groups and economic blocks:

ACP	27 327	24 849	28 493	64 673	108 810
ASEAN	57 308	52 268	103 926	61 436	58 676
BRICS	4 830 352	3 947 637	3 960 626	4 161 143	4 392 142
CPE	2 250 000	2 250 000	2 040 000	1 840 000	2 040 000
EC	1 150 078	1 087 534	1 099 275	1 156 148	1 186 108
EFTA	0	0	0	0	0
G7	1 694 894	1 785 430	1 769 997	1 828 671	1 707 700
MERCOSUR	579 740	516 046	510 713	515 430	513 492
NAFTA	1 452 064	810 452	794 263	832 129	937 448
OECD	3 839 905	3 138 579	3 174 999	3 382 051	3 036 566
SADC	27 327	21 849	23 576	58 776	102 142

## Vermiculite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	100 000	100 000	100 000	100 000	100 000
Developing C.	301 190	307 101	310 687	297 573	296 084
Least Developed C.	2 661	1 213	3 295	4 119	10 413
Transition C.	21 000	21 000	20 000	14 400	25 904
<b>Total</b>	<b>424 851</b>	<b>429 314</b>	<b>433 982</b>	<b>416 092</b>	<b>432 401</b>
Annual per capita income:					
High Income	121 090	100 000	100 000	100 000	100 000
Upper Middle Income	251 593	265 354	292 233	282 616	285 677
Lower Middle Income	18 767	31 879	9 142	6 055	36 311
Low Income	33 401	32 081	32 607	27 421	10 413
<b>Total</b>	<b>424 851</b>	<b>429 314</b>	<b>433 982</b>	<b>416 092</b>	<b>432 401</b>

Political stability:

Stable	0	0	0	0	0
Fair	100 090	100 090	100 060	100 000	100 000
Unstable	321 321	320 609	332 772	314 474	314 218
Extreme Unstable	3 440	8 615	1 150	1 618	18 183
<b>Total</b>	<b>424 851</b>	<b>429 314</b>	<b>433 982</b>	<b>416 092</b>	<b>432 401</b>

Country groups and economic blocks:

ACP	176 848	170 781	199 190	193 505	184 920
ASEAN	0	0	0	0	0
BRICS	285 778	286 819	298 855	286 589	270 400
CPE	50 000	50 000	50 000	50 000	50 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	100 000	100 000	100 000	100 000	100 000
MERCOSUR	56 534	54 340	53 390	50 050	50 000
NAFTA	100 226	100 299	100 310	100 464	100 244
OECD	100 942	100 724	101 360	102 082	118 427
SADC	173 747	169 158	195 795	189 386	174 507

## Zircon

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
<b>Development status:</b>					
Developed C.	817 826	747 326	650 000	615 000	718 000
Developing C.	641 299	628 467	622 663	606 431	595 862
Least Developed C.	89 531	110 316	137 738	184 699	202 069
Transition C.	42 930	38 180	36 984	34 563	29 014
<b>Total</b>	<b>1 591 586</b>	<b>1 524 289</b>	<b>1 447 385</b>	<b>1 440 693</b>	<b>1 544 945</b>
<b>Annual per capita income:</b>					
High Income	825 756	747 326	650 000	615 000	718 000
Upper Middle Income	563 537	550 920	507 589	509 932	486 254
Lower Middle Income	121 802	115 727	152 058	131 062	232 191
Low Income	80 491	110 316	137 738	184 699	108 500
<b>Total</b>	<b>1 591 586</b>	<b>1 524 289</b>	<b>1 447 385</b>	<b>1 440 693</b>	<b>1 544 945</b>
<b>Political stability:</b>					
Stable	0	0	0	0	0
Fair	818 503	756 766	659 953	622 095	729 009
Unstable	722 045	734 198	717 074	786 073	790 951
Extreme Unstable	51 038	33 325	70 358	32 525	24 985
<b>Total</b>	<b>1 591 586</b>	<b>1 524 289</b>	<b>1 447 385</b>	<b>1 440 693</b>	<b>1 544 945</b>

Country groups and economic blocks:

ACP	503 670	515 859	555 746	592 815	543 487
ASEAN	37 407	39 726	44 753	36 595	64 709
BRICS	593 349	567 031	536 787	521 088	498 010
CPE	155 730	148 000	109 300	121 500	160 500
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	65 000	60 000	50 000	45 000	100 000
MERCOSUR	23 659	22 647	21 302	22 000	22 000
NAFTA	65 000	60 000	50 000	45 000	100 000
OECD	818 926	748 826	650 500	616 200	719 950
SADC	476 176	441 446	461 212	461 763	400 710

## 6.3.5 Mineral Fuels

### Steam Coal

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	1 122 482 339	1 049 597 013	889 181 348	911 720 881	889 569 542
Developing C.	4 357 917 035	4 288 562 999	4 023 068 525	4 222 010 970	4 504 285 308
Least Developed C.	6 613 605	5 389 796	6 202 578	9 742 022	12 160 119
Transition C.	336 495 380	326 231 091	335 569 675	359 029 290	385 767 855
Total	5 823 508 359	5 669 780 899	5 254 022 126	5 502 503 163	5 791 782 824
Annual per capita income:					
High Income	1 341 093 012	1 054 503 189	893 427 665	915 739 566	893 066 139
Upper Middle Income	3 315 690 773	3 464 572 451	3 176 519 423	3 373 255 828	3 526 767 522
Lower Middle Income	1 129 661 700	1 115 614 869	1 145 591 740	1 179 600 134	1 342 896 800
Low Income	37 062 874	35 090 390	38 483 298	33 907 635	29 052 363
Total	5 823 508 359	5 669 780 899	5 254 022 126	5 502 503 163	5 791 782 824
Political stability:					
Stable	1 900 000	26 517 000	27 739 000	1 426 000	1 689 400
Fair	1 234 832 970	1 078 579 180	996 490 507	1 055 627 368	1 050 947 401
Unstable	4 548 156 330	4 534 389 680	4 183 931 814	4 415 934 839	4 706 679 509
Extreme Unstable	38 619 059	30 295 039	45 860 805	29 514 956	32 466 514
Total	5 823 508 359	5 669 780 899	5 254 022 126	5 502 503 163	5 791 782 824

Country groups and economic blocks:

ACP	267 639 426	260 861 666	258 666 760	263 795 289	268 185 770
ASEAN	540 232 328	505 738 472	512 953 573	515 357 579	615 987 588
BRICS	3 872 313 466	3 862 246 350	3 588 533 835	3 816 984 639	4 019 613 360
CPE	2 929 548 000	2 885 618 000	2 587 766 000	2 745 526 390	2 883 242 600
EC	82 029 262	75 877 631	67 375 007	61 030 448	49 302 942
EFTA	1 701 077	1 203 382	960 341	134 433	154 200
G7	804 055 800	725 995 600	575 882 900	600 914 600	584 403 930
MERCOSUR	5 492 954	4 494 811	4 315 332	4 133 152	4 318 760
NAFTA	802 349 540	722 262 620	578 065 505	603 910 900	587 368 528
OECD	1 143 575 064	1 063 520 809	903 671 170	925 105 753	901 694 667
SADC	267 256 023	260 495 762	257 430 974	263 164 283	267 611 511

## Coking Coal

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	308 484 820	297 659 920	283 902 600	301 903 960	301 135 550
Developing C.	700 082 723	681 610 278	648 117 135	602 205 300	615 798 470
Least Developed C.	3 784 603	4 786 612	3 972 122	7 385 930	8 355 292
Transition C.	106 503 000	105 983 900	105 776 800	107 183 600	107 042 300
Total	1 118 855 146	1 090 040 710	1 041 768 657	1 018 678 790	1 032 331 612

Annual per capita income:

High Income	384 784 820	297 659 920	283 902 600	301 903 960	301 135 550
Upper Middle Income	656 794 723	705 342 278	661 925 135	633 552 000	643 595 470
Lower Middle Income	73 043 000	81 793 900	91 507 800	75 353 900	79 245 300
Low Income	4 232 603	5 244 612	4 433 122	7 868 930	8 355 292
Total	1 118 855 146	1 090 040 710	1 041 768 657	1 018 678 790	1 032 331 612

Political stability:

Stable	1 760 000	28 674 000	26 187 000	1 173 100	1 213 400
Fair	330 795 820	281 598 920	293 181 600	342 152 560	338 175 150
Unstable	774 002 326	772 936 890	715 196 257	669 355 230	685 955 762
Extreme Unstable	12 297 000	6 830 900	7 203 800	5 997 900	6 987 300
Total	1 118 855 146	1 090 040 710	1 041 768 657	1 018 678 790	1 032 331 612

Country groups and economic blocks:

ACP	7 756 603	8 492 612	8 175 122	11 572 930	13 297 292
ASEAN	3 300 000	2 230 000	3 340 000	4 300 000	5 578 000
BRICS	757 034 000	740 082 000	696 220 000	645 159 300	660 875 600
CPE	625 929 000	605 660 000	567 015 000	540 779 300	551 130 600
EC	21 212 820	20 408 920	18 277 600	17 136 860	21 264 150
EFTA	0	0	0	0	0
G7	109 731 100	88 530 100	77 246 900	95 817 960	100 664 550
MERCOSUR	0	0	0	0	0
NAFTA	107 778 600	87 301 408	80 703 135	98 160 000	104 043 000
OECD	311 907 420	300 866 328	290 148 735	307 233 960	306 601 550
SADC	7 756 603	8 492 612	8 175 122	11 572 930	13 297 292

## Lignite

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	543 973 799	543 510 725	509 269 454	514 620 159	478 718 860
Developing C.	137 242 501	123 806 554	144 051 818	144 037 721	154 178 250
Least Developed C.	76 320	4 518 068	13 330 121	13 529 492	16 136 277
Transition C.	137 585 107	150 125 874	151 837 142	154 231 248	159 145 940
<b>Total</b>	<b>818 877 727</b>	<b>821 961 221</b>	<b>818 488 535</b>	<b>826 418 620</b>	<b>808 179 327</b>
Annual per capita income:					
High Income	557 873 699	482 080 625	454 855 254	454 280 359	423 258 032
Upper Middle Income	199 958 911	271 952 534	284 279 912	292 099 502	311 503 218
Lower Middle Income	61 045 117	67 928 062	79 353 369	80 038 759	73 418 077
Low Income	0	0	0	0	0
<b>Total</b>	<b>818 877 727</b>	<b>821 961 221</b>	<b>818 488 535</b>	<b>826 418 620</b>	<b>808 179 327</b>
Political stability:					
Stable	316 692	10 583 086	10 275 035	319 487	307 378
Fair	543 191 836	535 916 578	531 693 577	542 404 323	547 372 479
Unstable	275 369 199	219 111 857	204 828 923	210 830 810	173 598 470
Extreme Unstable	0	56 349 700	71 691 000	72 864 000	86 901 000
<b>Total</b>	<b>818 877 727</b>	<b>821 961 221</b>	<b>818 488 535</b>	<b>826 418 620</b>	<b>808 179 327</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	18 058 042	19 668 617	30 308 722	29 788 129	30 988 227
BRICS	120 587 779	120 151 305	122 210 217	123 032 084	126 205 500
CPE	6 073 000	5 755 000	6 672 000	6 783 000	6 952 800
EC	402 276 407	403 285 139	372 829 019	386 821 172	372 971 982
EFTA	0	0	0	0	0
G7	258 835 700	252 605 500	246 206 750	242 046 200	225 741 500
MERCOSUR	3 417 779	2 709 305	3 480 217	1 488 084	1 422 500
NAFTA	80 680 700	74 540 500	74 654 400	70 760 500	59 483 500
OECD	550 473 699	538 430 325	526 546 254	527 144 359	509 926 032
SADC	0	0	0	0	0

## Natural Gas

	2014 Mio m <sup>3</sup>	2015 Mio m <sup>3</sup>	2016 Mio m <sup>3</sup>	2017 Mio m <sup>3</sup>	2018 Mio m <sup>3</sup>
Development status:					
Developed C.	1 226 626	1 266 477	1 275 051	1 318 252	1 422 493
Developing C.	1 408 292	1 433 215	1 458 669	1 508 724	1 561 523
Least Developed C.	61 032	60 916	61 662	65 737	57 239
Transition C.	835 001	828 579	799 938	878 922	918 286
<b>Total</b>	<b>3 530 951</b>	<b>3 589 187</b>	<b>3 595 320</b>	<b>3 771 635</b>	<b>3 959 541</b>

Annual per capita income:

High Income	2 353 665	1 701 799	1 713 317	1 806 423	1 885 222
Upper Middle Income	752 436	1 457 679	1 464 707	1 536 227	1 633 859
Lower Middle Income	419 040	423 437	410 582	418 266	429 401
Low Income	5 810	6 272	6 714	10 719	11 059
<b>Total</b>	<b>3 530 951</b>	<b>3 589 187</b>	<b>3 595 320</b>	<b>3 771 635</b>	<b>3 959 541</b>

Political stability:

Stable	18 117	161 016	163 213	4 761	4 161
Fair	1 726 550	1 523 655	1 559 396	1 769 653	1 904 089
Unstable	1 599 786	1 722 050	1 666 392	1 745 210	1 620 677
Extreme Unstable	186 498	182 466	206 319	252 011	430 614
<b>Total</b>	<b>3 530 951</b>	<b>3 589 187</b>	<b>3 595 320</b>	<b>3 771 635</b>	<b>3 959 541</b>

Country groups and economic blocks:

ACP	106 898	115 605	105 145	113 982	119 273
ASEAN	226 170	223 907	225 693	224 340	217 564
BRICS	817 947	812 973	800 157	889 966	930 925
CPE	141 567	146 515	148 660	158 952	171 245
EC	150 187	135 108	133 729	128 271	116 867
EFTA	108 105	117 008	116 767	124 664	122 203
G7	944 216	982 209	970 319	992 736	1 091 203
MERCOSUR	94 156	100 122	103 337	107 008	100 847
NAFTA	930 778	963 130	945 810	964 583	1 061 938
OECD	1 259 640	1 295 472	1 299 568	1 338 481	1 439 783
SADC	7 449	8 185	9 045	12 991	13 620

## Petroleum

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	877 976 923	941 944 084	917 719 044	962 420 448	1 074 628 225
Developing C.	2 456 031 014	2 542 544 625	2 576 107 505	2 538 980 085	2 517 281 961
Least Developed C.	125 968 950	124 383 320	115 636 770	106 912 990	92 322 900
Transition C.	671 334 708	676 833 090	686 548 836	691 273 473	704 539 521
<b>Total</b>	<b>4 131 311 595</b>	<b>4 285 705 119</b>	<b>4 296 012 155</b>	<b>4 299 586 996</b>	<b>4 388 772 607</b>

Annual per capita income:

High Income	2 571 539 091	1 963 815 943	1 971 159 414	1 988 813 868	2 099 913 255
Upper Middle Income	1 265 424 341	2 016 619 120	1 956 047 056	1 948 294 215	1 931 931 030
Lower Middle Income	279 681 193	290 060 696	355 580 715	347 209 531	339 800 933
Low Income	14 666 970	15 209 360	13 224 970	15 269 382	17 127 389
<b>Total</b>	<b>4 131 311 595</b>	<b>4 285 705 119</b>	<b>4 296 012 155</b>	<b>4 299 586 996</b>	<b>4 388 772 607</b>



Political stability:

Stable	8 945 562	195 745 280	195 904 840	1 399 820	1 085 650
Fair	1 484 386 870	1 157 649 934	1 204 668 700	1 443 883 138	1 699 375 202
Unstable	2 290 041 718	2 549 660 050	2 505 978 572	2 325 604 018	1 986 858 047
Extreme Unstable	347 937 445	382 649 855	389 460 043	528 700 020	701 453 708
<b>Total</b>	<b>4 131 311 595</b>	<b>4 285 705 119</b>	<b>4 296 012 155</b>	<b>4 299 586 996</b>	<b>4 388 772 607</b>

Country groups and economic blocks:

ACP	255 460 061	273 235 147	248 710 576	246 050 345	242 309 720
ASEAN	106 292 640	110 889 820	112 161 870	107 071 890	102 577 770
BRICS	892 442 203	910 935 878	913 183 536	910 016 145	913 288 570
CPE	232 736 400	237 306 800	220 659 700	210 586 200	206 446 100
EC	67 092 533	71 586 504	70 548 944	69 339 338	72 776 110
EFTA	86 278 400	88 924 200	91 424 500	89 849 400	84 183 200
G7	751 070 869	815 448 683	791 554 768	839 288 786	957 887 243
MERCOSUR	281 816 300	287 678 900	276 664 900	267 515 700	235 831 800
NAFTA	837 703 130	887 413 490	856 723 770	893 736 890	1 000 255 730
OECD	1 012 581 736	1 066 891 936	1 036 348 142	1 069 839 697	1 174 879 263
SADC	85 374 073	90 716 638	86 324 846	79 722 785	72 572 320

## Oil Sands (part of Petroleum)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	97 843 100	118 594 300	120 572 400	133 202 900	145 081 000
Developing C.	30 100 000	29 980 000	29 000 000	25 000 000	20 000 000
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
<b>Total</b>	<b>127 943 100</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>
Annual per capita income:					
High Income	127 943 100	118 594 300	120 572 400	133 202 900	145 081 000
Upper Middle Income	0	29 980 000	29 000 000	25 000 000	20 000 000
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>127 943 100</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>
Political stability:					
Stable	0	118 594 300	120 572 400	0	0
Fair	97 843 100	0	0	133 202 900	145 081 000
Unstable	30 100 000	29 980 000	29 000 000	0	0
Extreme Unstable	0	0	0	25 000 000	20 000 000
<b>Total</b>	<b>127 943 100</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	0	0	0	0	0
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	97 843 100	118 594 300	120 572 400	133 202 900	145 081 000
MERCOSUR	30 100 000	29 980 000	29 000 000	25 000 000	20 000 000
NAFTA	97 843 100	118 594 300	120 572 400	133 202 900	145 081 000
OECD	97 843 100	118 594 300	120 572 400	133 202 900	145 081 000
SADC	0	0	0	0	0

## Oil Shales

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
Development status:					
Developed C.	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350
Developing C.	0	0	0	0	0
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350

Annual per capita income:

High Income	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350
Upper Middle Income	0	0	0	0	0
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350

Political stability:

Stable	203	0	0	0	0
Fair	21 503 693	20 086 538	16 256 946	22 108 973	22 379 800
Unstable	395 600	420 100	425 100	449 100	414 550
Extreme Unstable	0	0	0	0	0
Total	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	0	0	0	0	0
CPE	0	0	0	0	0
EC	21 503 896	20 086 538	16 258 946	22 108 973	22 379 800
EFTA	0	0	0	0	0
G7	508 693	470 470	494 777	483 803	496 650
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350
SADC	0	0	0	0	0

## Uranium (U<sub>3</sub>O<sub>8</sub>)

	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t
<b>Development status:</b>					
Developed C.	20 095	24 094	25 604	21 910	15 846
Developing C.	6 850	6 465	7 171	8 057	9 520
Least Developed C.	5 336	4 852	4 101	4 066	3 433
Transition C.	35 548	36 930	37 931	35 926	36 509
<b>Total</b>	<b>67 829</b>	<b>72 341</b>	<b>74 807</b>	<b>69 959</b>	<b>65 308</b>
<b>Annual per capita income:</b>					
High Income	23 530	24 003	25 545	21 910	15 846
Upper Middle Income	33 354	37 723	39 379	38 448	37 987
Lower Middle Income	5 609	5 763	5 782	5 535	8 042
Low Income	5 336	4 852	4 101	4 066	3 433
<b>Total</b>	<b>67 829</b>	<b>72 341</b>	<b>74 807</b>	<b>69 959</b>	<b>65 308</b>
<b>Political stability:</b>					
Stable	0	15 659	16 666	0	0
Fair	51 289	11 908	42 359	54 391	47 955
Unstable	15 395	43 565	14 544	10 463	12 477
Extreme Unstable	1 145	1 209	1 238	5 105	4 876
<b>Total</b>	<b>67 829</b>	<b>72 341</b>	<b>74 807</b>	<b>69 959</b>	<b>65 308</b>
<b>Country groups and economic blocks:</b>					
ACP	9 843	8 853	8 859	9 351	10 178
ASEAN	0	0	0	0	0
BRICS	6 484	6 541	6 353	6 463	6 377
CPE	1 769	1 906	1 906	2 223	2 223
EC	329	251	263	106	40
EFTA	0	0	0	0	0
G7	13 795	17 177	18 042	15 542	8 882
MERCOSUR	67	51	0	0	0
NAFTA	13 752	17 175	17 989	15 502	8 882
OECD	20 004	24 003	25 545	21 910	15 846
SADC	4 942	4 001	4 758	5 285	6 745

## 6.4 Production of Mineral Raw Materials of individual Countries, by Minerals

### 6.4.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	492 010	509 800	328 300	268 400	381 200	1e
Argentina	224 840	206 060	107 280	28 400	40 560	1n
Australia	457 409 154	500 993 637	531 075 350	548 297 062	562 136 693	1e
Austria	779 736	890 665	888 723	954 156	897 132	1e
Azerbaijan	38 390	53 590	10 710	0	0	1e
Bhutan	12 200	27 650	17 960	21 100	24 220	1e
Bolivia	10 690	14 180	1 710	22 230	41 560	1e
Bosnia-Herzegovina	1 499 950	1 082 630	893 420	827 170	704 050	1e
Brazil	261 101 100	275 607 200	267 983 700	289 089 904	293 110 000	1e
Canada	26 335 400	28 194 100	28 505 600	30 682 700	32 180 600	1e
Chile	9 427 640	9 147 839	9 008 873	9 549 327	8 942 638	1e
China	404 379 000	371 250 000	345 841 000	331 931 000	206 111 000	1e
Colombia	304 440	406 040	322 100	320 770	257 790	1e
Congo, Rep.				0	10 800	1e
Egypt	764 610	186 300	229 010	270 000	270 000	2n
Eswatini	301 630	0	0	0	0	1e
Germany	66 900	71 900	74 500	82 900	82 900	1e
Guatemala	850	7 310	8 210	2 670	2 590	1a
India	80 404 800	98 687 200	121 395 000	125 415 500	123 510 200	1e
Indonesia	3 273 300	2 111 200	2 300 000	1 075 800	600 000	2n
Iran	25 709 416	25 797 898	21 623 000	21 884 000	24 700 000	1a
Kazakhstan	15 965 110	11 122 150	10 632 570	11 705 660	12 968 800	1e
Korea, North	963 600	579 300	600 000	630 000	603 000	1e
Korea, South	415 960	267 190	266 810	186 330	229 530	1e
Laos	680 840	140 850	69 040	150 000	59 500	1e
Liberia	2 952 800	2 717 700	843 100	962 900	2 779 000	1e
Malawi		0	2 280	3 000	1 540	1e
Malaysia	6 057 650	1 015 450	1 206 130	2 469 370	2 112 790	1e
Mauritania	8 648 800	7 544 600	8 624 200	7 678 500	6 961 700	1e
Mexico	9 976 750	8 077 160	8 454 390	7 027 520	8 412 810	1a
Mongolia	5 745 880	3 704 040	3 407 480	4 309 030	3 486 220	1e
Morocco	8 250	6 430	5 510	36 120	37 000	2n
Namibia	0	2 680	5 680	1 640	8 730	1e
Nepal			0	350	180	1e
New Zealand	1 882 310	1 852 360	2 027 560	2 324 640	2 100 000	2n
Nigeria	20 000	20 000	700	0	700	1e
Norway	2 466 600	2 252 200	1 425 000	992 700	1 129 900	1e
Pakistan	74 890	124 990	164 220	190 630	257 340	1e
Peru	7 192 590	7 320 810	7 663 120	8 806 450	9 533 870	1e
Philippines	92 300	64 300	10 300	0	0	1e
Russia	58 465 000	58 465 000	57 200 000	57 970 000	58 575 000	1e
Saudi Arabia	243 400	241 900	254 200	266 800	27 700	1e
Sierra Leone	10 259 610	1 521 830	3 814 410	3 194 930	0	1e

South Africa	52 493 570	47 323 600	43 196 310	48 808 920	48 271 430	1e
Sudan	16 300	0	0	0	0	1e
Sweden	19 447 800	17 096 800	18 206 400	18 741 000	18 405 000	1a
Thailand	215 710	10 220	0	85	0	1e
Tunisia	179 200	153 700	159 500	152 100	145 800	3e
Turkey	7 251 200	4 734 200	4 353 700	6 095 400	9 546 700	1e
Uganda	25 175	5 400	1 280	1 390	2 700	1e
Ukraine	43 712 000	42 817 200	40 240 600	38 767 600	38 751 300	1e
United States	35 343 000	29 043 000	26 334 000	30 177 000	31 185 000	1e
Uruguay	15 050	11 520	1 040	1 010	2 520	1e
Venezuela	7 318 100	7 615 100	5 070 000	4 615 000	1 950 000	1n
Vietnam	1 631 400	1 614 600	1 833 600	3 309 000	3 282 600	3e
<b>Total</b>	<b>1 572 296 901</b>	<b>1 572 711 479</b>	<b>1 576 687 576</b>	<b>1 620 298 164</b>	<b>1 514 832 293</b>	

## Chromium (Cr<sub>2</sub>O<sub>3</sub> - Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Afghanistan	2 200	2 500	2 000	2 000	2 000	2n
Albania	309 900	284 100	317 500	351 500	497 100	1e
Australia	10 519	0	0	0	0	1e
Brazil	244 622	204 321	166 259	212 503	215 000	2n
China	14 400	17 600	12 200	12 000	10 930	1e
Cuba	6 600	13 500	12 000	14 400	10 500	1e
Ethiopia				0	8 000	1a
Finland	441 300	457 100	469 140	416 285	492 774	1e
Greece				0	16 650	1e
India	995 500	1 335 560	1 728 270	1 609 010	1 751 800	3e
Iran	157 953	142 810	162 100	92 850	113 410	1a
Kazakhstan	2 143 900	1 992 400	1 989 500	2 193 500	2 378 200	1e
Kosovo	1 000	0	0	0	0	1e
Madagascar	60 750	72 620	52 800	102 000	53 500	1e
Oman	300 480	179 680	232 820	181 090	353 630	1a
Pakistan	34 230	40 700	27 730	42 100	38 970	1e
Papua New Guinea	42 570	45 000	23 400	34 470	40 290	1n
Philippines	18 820	6 200	10 300	8 340	18 000	1e
Russia	214 200	226 400	186 000	195 200	202 800	1e
South Africa	5 977 600	6 660 500	6 254 600	7 073 400	7 524 700	1e
Sudan	29 440	7 270	1 850	15 360	12 960	1e
Turkey	1 806 600	1 464 330	1 070 030	1 384 700	1 146 600	1a
Vietnam	1 600	0	0	0	0	2n
Zimbabwe	183 790	93 750	128 220	309 980	402 600	1e
<b>Total</b>	<b>12 997 974</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 250 688</b>	<b>15 290 414</b>	

## Cobalt

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	6 252	5 930	5 183	5 034	4 878	1e
Botswana	196	316	281	0	0	1e
Brazil	3 828	2 771	852	185	4	1e
Canada	6 907	7 489	7 148	6 058	5 608	1e

China	9 619	10 093	9 293	8 300	3 100	1e
Congo, D.R.	76 475	84 400	69 038	82 461	111 713	1e
Cuba	4 000	4 793	5 514	5 407	5 300	2q
Finland	2 104	2 119	2 260	2 300	1 377	1e
Indonesia	329	350	350	350	350	2q
Madagascar	3 221	3 920	3 654	2 967	2 887	1n
Morocco	1 391	1 722	2 081	1 924	1 806	1n
New Caledonia	4 040	3 960	5 720	5 080	3 770	1e
Papua New Guinea	2 134	2 505	2 187	3 307	3 275	1n
Philippines	4 094	3 900	3 500	3 700	3 600	1n
Russia	5 400	5 800	5 600	4 700	5 330	2q
South Africa	1 332	1 362	1 101	1 065	1 007	1e
United States	120	760	690	640	490	1e
Vietnam	223	277	134	0	0	1n
Zambia	4 562	2 979	5 276	2 649	1 585	1e
Zimbabwe	358	355	409	445	403	1e
Total	136 585	145 801	130 271	136 572	156 483	

## Manganese

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	3 454 430	3 250 300	2 388 500	2 879 010	3 514 320	1n
Bosnia-Herzegovina	14 176	3 200	1 000	0	0	1e
Brazil	1 094 000	1 226 458	1 198 709	1 343 967	1 350 000	2n
Bulgaria	25 830	13 470	12 050	574	1 000	2n
China	3 310 000	2 484 000	2 150 000	2 508 000	1 180 000	1e
Congo, D.R.				0	7 440	1e
Cote d'Ivoire	162 900	118 430	102 320	230 340	356 360	1e
Egypt	12 000	5 000	0	0	0	2n
Gabon	1 872 100	1 973 000	1 658 500	2 369 900	2 982 800	1n
Georgia	83 600	66 000	48 400	90 000	95 000	2n
Ghana	473 720	451 020	706 390	1 051 250	1 593 110	1e
Hungary	13 650	15 330	4 840	0	0	1e
India	780 210	728 970	801 600	859 170	924 200	3e
Indonesia	3 700	27 000	27 000	27 000	27 000	2n
Iran	56 628	69 760	33 110	33 915	45 595	1a
Kazakhstan	527 000	328 400	323 300	294 900	288 300	1e
Kenya			0	2 700	7 000	1n
Malaysia	401 010	216 420	294 300	514 950	720 000	3e
Mexico	235 686	217 466	215 782	218 510	209 023	1a
Morocco	45 640	35 850	34 170	49 500	50 000	2n
Myanmar	96 800	28 000	116 000	136 600	207 500	1n
Namibia	32 000	10 110	5 050	9 820	8 800	1e
Nigeria	70	510	20 330	13 550	62 220	1e
Oman	9 380	3 950	3 660	3 400	11 170	1a
Peru		0	1 194	1 133	17 203	1e
Romania	4 880	4 200	1 550	5 660	5 020	1e
Senegal	2 120	3 000	0	0	0	1e
South Africa	5 341 400	4 186 600	4 028 100	5 501 400	5 640 700	1e
Sudan	8 000	12 560	3 920	4 000	4 000	2n
Thailand	6 880	4 320	4 390	3 850	1 920	1e

Turkey	52 500	30 500	16 400	27 300	29 900	1e
Ukraine	565 800	546 600	491 500	650 500	682 700	1e
Vietnam	50 000	50 000	29 000	28 650	20 000	2n
Zambia	22 000	5 000	27 500	50 000	138 000	1n
<b>Total</b>	<b>18 758 110</b>	<b>16 115 424</b>	<b>14 748 565</b>	<b>18 909 549</b>	<b>20 180 281</b>	

## Molybdenum

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	954	869	479	651	364	1e
Armenia	5 796	5 131	5 771	5 038	5 422	1e
Australia	28	0	0	0	0	1e
Canada	9 358	2 505	2 783	4 765	5 048	1e
Chile	48 770	52 579	55 647	62 746	60 705	1e
China	131 500	135 150	112 590	117 090	98 420	1e
Iran	3 494	3 337	3 340	4 280	3 690	1a
Kazakhstan	0	430	1 941	35	58	1n
Korea, North	250	370	440	480	560	3e
Korea, South	490	258	0	0	1	1e
Mexico	14 370	11 327	11 896	13 985	20 265	1a
Mongolia	1 999	2 557	2 432	2 640	2 580	1e
Norway	2	1	1	0	0	1e
Peru	17 018	20 153	25 757	28 141	28 034	1e
Russia	3 114	3 254	3 359	3 227	2 400	1e
Turkey	0	1 335	0	900	450	1a
United States	68 200	47 400	36 200	40 700	41 400	1e
Uzbekistan	450	570	620	700	750	1n
<b>Total</b>	<b>305 793</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 147</b>	

## Nickel

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Albania	5 350	7 460	4 400	5 760	4 050	1e
Australia	266 181	225 227	203 135	185 466	160 878	1e
Botswana	14 958	16 789	16 878	0	0	1e
Brazil	85 600	89 302	78 626	68 803	74 400	1q
Canada	228 867	234 519	235 034	214 302	179 990	1e
China	101 067	101 400	100 200	102 348	98 963	1e
Colombia	41 222	36 671	37 092	40 606	43 056	1e
Cote d'Ivoire			0	400	5 300	1e
Cuba	50 100	50 000	48 000	49 300	50 000	2n
Dominican Republic	0	0	9 913	15 632	19 214	1a
Finland	19 281	9 383	20 654	34 641	43 572	1e
Greece	21 440	21 060	22 030	21 090	19 980	1e
Guatemala	57 700	38 500	36 900	54 500	48 400	1a
Indonesia	215 000	129 600	198 900	363 000	545 000	3e
Kosovo	6 720	6 650	4 310	7 120	4 790	1e
Madagascar	37 046	45 075	42 024	34 123	33 204	1n
Morocco	0	0	0	196	126	1e
Myanmar	21 000	26 400	25 000	29 250	17 750	1n

New Caledonia	175 174	193 199	204 207	215 382	216 225	1e
Norway	290	300	230	190	170	2e
Papua New Guinea	20 988	25 582	22 234	34 664	35 354	1n
Philippines	393 262	415 021	300 506	339 377	344 915	1e
Poland	780	840	770	720	660	1e
Russia	264 000	261 000	223 000	221 000	218 000	1q
South Africa	54 956	56 689	48 994	48 463	43 236	1e
Spain	8 652	7 208	0	0	0	1e
Turkey	3 030	8 640	9 340	14 770	13 560	1e
United States	4 300	27 200	24 100	22 100	17 600	1e
Venezuela	3 599	3 707	0	0	0	1e
Vietnam	6 854	8 607	4 272	0	0	1n
Zimbabwe	16 633	16 109	17 743	16 617	17 850	1e
<b>Total</b>	<b>2 124 050</b>	<b>2 062 138</b>	<b>1 938 492</b>	<b>2 139 820</b>	<b>2 256 243</b>	

### Niobium (Nb<sub>2</sub>O<sub>5</sub>-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Brazil	88 771	80 465	80 669	83 166	83 000	2n
Burundi	25	13	8	18	8	1e
Canada	5 774	5 385	6 099	6 981	7 700	1b
China	20	30	30	30	20	2n
Congo, D.R.	376	694	797	717	607	1e
Ethiopia	25	20	28	25	28	1e
Mozambique	9	5	7	10	10	1e
Nigeria	30	29	104	122	181	1e
Russia	581	628	628	648	669	1n
Rwanda	345	248	190	260	255	1e
Uganda			4	3	2	1e
<b>Total</b>	<b>95 956</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>92 480</b>	

### Tantalum (Ta<sub>2</sub>O<sub>5</sub>-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	0	20	10	20	30	1e
Bolivia	7	1	0	3	18	1e
Brazil	313	268	125	100	150	2n
Burundi	37	19	11	26	11	1e
China	75	110	120	110	100	2n
Congo, D.R.	399	736	845	761	644	1e
Ethiopia	90	75	101	90	104	1e
Malaysia	26	9	8	6	27	1e
Mozambique	50	28	41	57	54	1e
Nigeria	75	72	66	480	230	1e
Russia	40	32	49	45	41	1n
Rwanda	530	380	290	395	390	1e
<b>Total</b>	<b>1 642</b>	<b>1 750</b>	<b>1 666</b>	<b>2 093</b>	<b>1 799</b>	



## Titanium (TiO<sub>2</sub>-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	997 000	1 053 300	1 070 000	993 000	875 250	1e
Brazil	46 445	45 330	37 660	48 000	38 000	2n
Canada	771 000	595 000	700 000	750 000	620 000	2n
China	1 118 700	1 067 200	1 196 000	1 242 000	1 932 000	1e
India	368 600	360 300	341 400	167 800	188 800	3e
Iran	7 000	38 290	3 340	30 630	30 000	2n
Kazakhstan	20 000	12 770	66 600	65 000	65 000	2n
Kenya	258 910	319 750	339 480	345 560	340 150	1n
Korea, South	132 490	112 250	91 800	122 670	117 250	1e
Madagascar	206 700	102 700	152 100	230 700	214 000	1e
Malaysia	7 400	3 590	5 990	8 500	12 500	3e
Mozambique	475 800	425 600	504 200	557 700	535 700	1n
Norway	380 010	277 340	260 000	238 200	176 370	1e
Russia	88 800	88 850	18 880	3 300	3 600	1e
Senegal	55 950	240 270	238 120	280 320	287 940	1n
Sierra Leone	129 040	140 420	156 570	190 480	145 400	1n
South Africa	1 195 000	1 050 000	950 000	1 090 000	1 000 000	2n
Sri Lanka	20 140	23 410	16 510	30 630	35 670	1e
Turkey	4 750	4 750	4 750	6 370	6 175	1e
Ukraine	391 150	375 480	339 800	430 300	518 950	1e
United States	142 000	110 000	55 000	66 000	100 000	1e
Vietnam	290 160	123 600	109 620	117 160	109 100	3e
Total	7 107 045	6 570 200	6 657 820	7 014 320	7 351 855	

## Tungsten (W-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	477	348	108	5	0	1e
Austria	819	861	954	975	936	1e
Bolivia	1 251	1 461	1 109	1 015	1 366	1e
Brazil	677	432	323	400	300	2n
Burundi	27	11	77	144	117	1e
Canada	2 147	1 815	0	0	0	1e
China	67 700	72 200	72 000	71 800	65 300	1e
Colombia	7	3	2	0	0	1e
Congo, D.R.	13	55	79	130	160	1e
Korea, North	70	72	50	310	1 410	3e
Korea, South	12	8	14	0	0	1e
Kyrgyzstan	0	80	0	0	0	1e
Mexico					45	1e
Mongolia	765	877	755	523	430	1e
Myanmar	100	250	170	330	300	1n
Nigeria	0	27	8	12	66	1e
Peru	61	110	154	0	0	1e
Portugal	671	474	549	669	716	1a
Russia	2 659	2 642	2 707	2 144	2 234	1e
Rwanda	1 288	1 060	1 020	905	1 155	1e
Spain	822	835	699	564	730	1n
Thailand	90	31	29	43	65	1e

Uganda	63	36	41	62	188	1e
United Kingdom		155	732	1 086	890	1n
Uzbekistan	83	110	80	103	97	1e
Vietnam	3 510	4 063	5 041	5 141	4 881	1n
Total	83 312	88 016	86 701	86 361	81 386	

## Vanadium (V-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Brazil	578	3 254	4 461	5 206	5 505	1n
China	44 800	42 000	45 000	48 500	44 240	1e
Kazakhstan	1 000	1 000	0	0	0	1e
Russia	15 125	16 196	16 886	18 636	17 052	1n
South Africa	21 582	17 455	15 877	14 222	14 904	1e
Total	83 085	79 905	82 224	86 564	81 701	

## 6.4.2 Non-Ferrous Metals

### Aluminium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	441 703	428 206	424 785	428 238	435 837	1e
Australia	1 704 991	1 645 963	1 633 904	1 487 555	1 574 240	1e
Azerbaijan	50 400	53 300	36 800	28 500	45 390	1n
Bahrain	931 427	960 643	971 420	981 016	1 011 101	1e
Bosnia-Herzegovina	131 238	118 253	106 649	125 536	131 508	1e
Brazil	962 000	772 200	792 700	801 700	659 000	1e
Cameroon	93 000	88 273	84 689	68 598	85 481	1e
Canada	2 858 237	2 880 037	3 208 888	3 212 124	2 924 389	1e
China	28 316 700	31 518 000	31 775 400	33 329 580	35 801 912	1e
Egypt	304 200	338 000	314 600	279 100	267 100	1n
France	381 000	415 000	424 640	426 730	390 000	1e
Germany	530 700	541 400	546 800	550 000	528 900	1e
Ghana	38 100	33 800	33 010	40 500	42 867	1e
Greece	173 164	179 420	181 680	181 700	187 465	1a
Iceland	698 765	724 705	700 080	759 988	731 478	1e
India	2 026 803	2 354 949	2 896 629	3 400 618	2 760 000	3e
Indonesia	264 474	257 149	245 483	218 816	242 043	1n
Iran	286 514	353 000	341 000	337 608	304 800	1a
Japan	500	0	0	0	0	1e
Kazakhstan	207 850	219 000	235 566	254 000	258 400	1e
Malaysia	440 000	440 000	620 000	760 000	760 000	1n
Montenegro	42 767	42 499	38 915	39 379	40 163	1e
Mozambique	566 880	558 390	571 125	577 495	571 125	1n
Netherlands	800	27 700	36 300	29 300	90 000	1n
New Zealand	328 269	335 292	338 556	336 740	340 678	1n
Norway	1 182 000	1 227 787	1 247 000	1 253 000	1 295 000	1n

Oman	364 000	377 186	386 395	252 714	379 775	1n
Qatar	612 000	610 000	612 000	620 000	616 000	1n
Romania	263 098	271 356	272 507	282 074	282 810	1n
Russia	3 488 000	3 529 000	3 561 000	3 583 000	3 621 000	1n
Saudi Arabia	662 000	839 000	871 000	916 000	932 209	1a
Slovakia	167 667	171 328	173 643	173 492	173 721	1n
Slovenia	84 361	83 775	84 365	84 424	80 511	1n
South Africa	745 000	695 000	701 000	716 000	714 000	1n
Spain	230 000	360 000	360 000	360 000	350 000	2q
Sweden	113 000	116 000	124 000	123 000	125 000	1n
Tajikistan	121 261	139 123	129 291	103 147	95 800	1e
Turkey	30 400	45 900	50 000	82 000	83 000	1a
United Arab Emirates	2 296 000	2 397 000	2 471 000	2 600 000	2 640 000	1n
United Kingdom	41 000	48 000	46 000	48 000	48 000	1n
United States	1 709 668	1 586 518	818 430	740 884	896 652	1e
Venezuela	138 400	119 511	145 000	136 000	64 700	1n
Vietnam			0	501 000	655 568	1e
Total	54 028 337	57 901 663	58 612 250	61 229 556	63 237 623	

## Antimony

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	3 828	4 213	4 285	4 610	3 570	1e
Bolivia	4 186	3 843	2 669	2 881	3 110	1e
Canada	4	1	0	1	5	1e
China	121 400	111 400	103 620	97 683	89 584	1e
Ecuador	15	40	15	260	0	1e
Guatemala	0	0	25	0	0	1a
Honduras	13	14	0	0	20	2n
Iran	432	216	2 767	620	1 645	1a
Kazakhstan	1 000	979	573	350	150	1n
Kyrgyzstan	1 450	1 200	1 880	1 380	680	1n
Laos	620	1 166	242	320	330	1n
Mexico	266	90	166	240	300	1n
Morocco	1 380	0	0	0	0	1e
Myanmar	3 360	3 000	2 000	4 500	2 000	1n
Pakistan	979	114	21	15	20	2n
Peru	244	250	0	0	0	1e
Russia	6 400	7 420	6 620	6 120	6 735	1e
South Africa	815	302	350	0	0	1e
Tajikistan	11 200	13 460	26 970	26 370	28 750	1e
Thailand	706	0	32	0	0	1e
Turkey	3 070	1 950	2 750	4 840	3 570	1e
Vietnam	1 098	220	230	230	235	3e
Total	162 466	149 878	155 215	150 420	140 704	

## Arsenic

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Belgium	1 000	1 000	1 000	1 000	1 000	2b
Bolivia	52	38	38	20	238	1e
China	25 000	25 000	25 000	25 000	24 000	2b
Iran	110	110	0	400	0	1a
Japan	45	45	45	45	45	2b
Morocco	6 863	7 567	6 122	6 879	5 578	1e
Namibia	1 980	2 000	1 960	700	0	1n
Peru		0	23 252	22 403	20 376	1e
Russia	1 500	1 500	1 500	1 500	1 500	2b
<b>Total</b>	<b>36 550</b>	<b>37 260</b>	<b>58 917</b>	<b>57 947</b>	<b>52 737</b>	

## Bauxite (crude ore)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	78 630 996	80 909 261	83 517 148	89 420 589	95 947 593	1e
Bosnia-Herzegovina	620 308	787 409	738 609	740 384	760 244	1e
Brazil	36 308 000	37 057 000	39 244 200	38 122 500	32 000 000	1n
China	59 212 400	60 787 600	66 157 700	69 017 000	70 000 000	1e
Colombia	601	861	693	2 400	9 043	1e
Cote d'Ivoire				0	100 000	3e
Croatia	9 146	11 897	9 780	12 215	11 776	1a
Dominican Republic	1 749 308	1 724 162	7 318	0	0	1a
Fiji	496 616	172 336	58 050	118 540	57 960	1e
France	71 100	70 000	70 000	70 000	70 000	2e
Ghana	798 114	1 014 605	1 143 676	1 476 966	1 011 302	1e
Greece	1 872 710	1 831 660	1 847 700	1 927 150	1 559 359	1a
Guinea	20 170 000	20 692 000	32 423 932	51 701 564	59 573 707	1e
Guyana	1 563 563	1 526 467	1 479 090	1 459 223	1 924 558	1e
Hungary	14 400	8 300	16 710	1 300	4 200	1e
India	22 493 671	28 123 789	24 745 487	22 312 681	23 193 680	1e
Indonesia	2 539 274	471 867	494 722	1 733 380	11 023 850	1n
Iran	540 003	773 700	765 616	804 510	866 683	1a
Jamaica	9 676 697	9 628 818	8 540 131	8 244 628	10 058 228	1e
Kazakhstan	4 515 600	4 682 600	4 801 300	4 846 100	6 104 200	1e
Malaysia	3 676 876	27 900 000	6 700 000	830 000	589 685	1e
Mexico	0	0	96 000	0	0	1a
Montenegro	155 153	50 369	667 259	927 847	468 164	1e
Mozambique	3 386	4 985	1 451	3 182	9 912	1e
Pakistan	31 156	24 689	57 024	75 375	146 045	1e
Russia	6 056 000	5 661 000	6 095 000	5 845 000	7 057 000	1e
Saudi Arabia	2 076 000	3 022 000	4 768 000	4 125 000	4 730 690	1a
Sierra Leone	1 161 705	1 334 046	1 368 531	1 787 716	1 938 461	1n
Solomon Islands	40	278 400	234 500	1 523 900	1 646 200	1e
Suriname	2 707 700	1 865 100	0	0	0	1e
Tanzania	25 641	204	73	12	7	1e
Turkey	1 091 442	1 050 000	989 156	1 719 144	678 138	1e
United States	133 300	483 700	272 900	352 100	399 700	1s
Venezuela	2 346 160	991 810	340 000	242 000	92 000	1n
Vietnam	1 090 000	1 436 500	1 606 100	2 565 000	2 930 000	1e
<b>Total</b>	<b>261 837 066</b>	<b>294 377 135</b>	<b>289 257 856</b>	<b>312 007 406</b>	<b>334 962 385</b>	

## Beryllium (concentrates)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Brazil	17	100	125	75	70	2n
China	1 200	1 200	1 250	1 250	1 250	2n
Madagascar	135	140	140	140	140	2b
Mozambique	3	312	181	53	416	1e
Nigeria	52	56	0	0	35	1e
Rwanda		23	30	30	30	2n
United States	6 900	5 100	3 870	3 760	4 170	1n
Zambia	4	7	5	4	7	1n
<b>Total</b>	<b>8 311</b>	<b>6 938</b>	<b>5 601</b>	<b>5 312</b>	<b>6 118</b>	

## Bismuth

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Armenia	2	2	1	1	0	2n
Bolivia	11	20	57	8	39	1e
Canada	4	2	3	4	5	1e
China	7 750	7 250	7 100	6 800	7 000	2n
Japan	582	632	428	525	571	1e
Kazakhstan	150	140	260	200	159	1e
Mexico	948	601	539	513	313	1a
Peru	188	0	188	123	145	1e
Russia	40	40	30	30	30	2n
Uzbekistan	2	2	0	0	0	2n
Vietnam	2 324	3 000	2 013	2 403	2 639	1n
<b>Total</b>	<b>12 001</b>	<b>11 689</b>	<b>10 619</b>	<b>10 607</b>	<b>10 901</b>	

## Cadmium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	115	107	91	96	74	1e
Armenia	43	0	0	0	0	2n
Brazil	200	200	200	180	300	1n
Bulgaria	382	344	362	333	313	1e
Canada	1 187	1 159	2 305	1 802	1 857	1e
China	8 201	8 162	8 222	8 411	8 450	2n
Germany	570	370	652	730	520	1n
India	69	0	35	47	0	3e
Japan	1 829	1 959	1 988	2 142	1 980	1e
Kazakhstan	1 633	1 459	2 682	2 690	850	2n
Korea, North	200	200	200	200	200	2n
Korea, South	4 300	3 620	4 595	4 960	5 100	2e
Mexico	1 409	1 283	1 244	1 142	1 307	1a
Netherlands	600	620	620	620	600	2n
Norway	320	310	335	416	380	2e
Peru	769	757	820	797	765	1e

Poland	628	383	200	309	305	1e
Russia	1 000	1 186	1 100	1 200	927	1e
United States	550	500	400	400	300	2n
Uzbekistan	60	707	290	306	237	1e
Total	24 065	23 326	26 341	26 781	24 465	

## Copper

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Albania	3 690	2 190	2 020	0	3 780	1e
Argentina	97 556	61 765	81 902	33 303	17 435	1e
Armenia	46 849	51 765	95 080	95 793	68 928	1e
Australia	978 534	995 881	947 555	849 121	913 336	1e
Azerbaijan	784	969	1 947	2 063	1 650	1e
Bolivia	10 746	9 479	8 718	7 219	5 216	1e
Botswana	47 700	22 284	13 120	1 239	1 462	1e
Brazil	301 197	350 940	338 921	384 542	381 000	1e
Bulgaria	115 540	112 600	111 870	110 290	112 850	1e
Canada	672 729	714 647	695 508	597 194	542 932	1e
Chile	5 761 100	5 772 100	5 552 600	5 503 500	5 831 600	1e
China	1 781 000	1 706 400	1 851 000	1 706 400	1 561 100	1e
Colombia	4 118	5 463	8 493	9 356	9 918	1e
Congo, D.R.	1 030 129	1 039 007	1 023 687	1 094 638	1 239 059	1e
Congo, Rep.			0	15 979	18 018	1e
Cyprus	3 088	2 121	1 754	1 293	908	1a
Dominican Republic	9 262	7 324	9 725	9 618	8 588	1a
Ecuador	3 200	1 400	40 200	8 200	42 200	1e
Eritrea	88 900	61 600	25 300	7 900	17 300	1n
Finland	42 810	41 805	47 488	53 144	46 755	1n
Georgia	13 100	11 700	12 200	14 700	15 250	1e
India	24 880	34 220	29 670	31 820	35 450	1e
Indonesia	379 787	586 914	727 959	621 979	651 132	1n
Iran	216 800	254 709	282 500	295 653	316 380	1n
Kazakhstan	471 700	467 500	471 500	540 700	632 550	1e
Korea, North	14 400	15 000	20 000	15 000	15 000	2q
Korea, South			117	7	0	1e
Kyrgyzstan	700	3 100	8 638	8 356	7 944	1n
Laos	159 696	167 702	167 679	153 304	154 948	1n
Mauritania	33 079	45 001	32 818	28 791	28 137	1e
Mexico	515 025	594 451	793 982	742 246	696 580	1a
Mongolia	274 600	335 850	374 260	314 920	309 750	1e
Morocco	22 360	26 850	31 810	35 420	34 500	3e
Myanmar	33 200	69 850	94 390	126 930	179 310	1n
Namibia	5 086	13 913	16 391	15 466	5 900	1q
North Macedonia	10 241	11 102	10 429	8 966	7 718	1e
Oman	15 140	8 650	0	0	0	1a
Pakistan	13 122	13 056	14 136	10 052	12 538	1n
Papua New Guinea	75 901	45 185	80 022	105 448	96 277	1n
Peru	1 377 642	1 700 817	2 353 859	2 445 585	2 436 951	1e
Philippines	91 922	83 835	83 649	68 156	69 933	1e
Poland	421 285	425 870	424 276	419 300	401 300	1n
Portugal	75 433	83 081	74 352	63 812	49 064	1a
Romania	7 680	7 710	8 390	8 160	8 165	1n
Russia	691 500	711 400	702 300	762 300	785 300	1e
Saudi Arabia	11 570	12 340	27 840	43 150	59 650	1n
Serbia	31 584	31 601	34 625	45 115	44 096	1n

Slovakia	46	58	39	32	21	1e
South Africa	78 697	77 360	65 257	65 532	46 900	1e
Spain	104 476	129 788	172 522	204 606	186 500	1q
Sweden	79 681	75 113	79 247	104 594	106 140	1a
Tajikistan	940	1 390	2 050	6 060	8 490	1e
Tanzania	16 400	16 800	17 400	15 800	10 000	2q
Turkey	96 300	108 000	107 300	85 200	87 000	3a
United States	1 360 000	1 380 000	1 430 000	1 260 000	1 220 000	1e
Uzbekistan	99 500	100 000	100 000	100 000	38 000	1e
Vietnam	21 762	24 420	22 300	21 100	22 440	1n
Zambia	708 259	711 515	774 290	799 329	861 946	1e
Zimbabwe	8 261	8 218	9 101	8 839	9 077	1e
<b>Total</b>	<b>18 560 687</b>	<b>19 353 809</b>	<b>20 514 186</b>	<b>20 087 220</b>	<b>20 474 372</b>	

## Gallium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
China	262	254	171	290	305	1e
Germany	16	11	4	0	0	1e
Hungary	2	0	0	0	0	2n
Japan	8	5	3	3	3	2n
Korea, South	1	2	3	3	3	1e
Russia	4	4	4	5	6	1n
Ukraine	10	9	9	9	6	2b
<b>Total</b>	<b>303</b>	<b>285</b>	<b>194</b>	<b>310</b>	<b>323</b>	

## Germanium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
China	95	114	110	87	90	1e
Finland	17	13	0	0	0	1e
Japan	2	2	2	2	2	2n
Russia	6	6	6	6	6	2n
Ukraine	1	1	1	1	1	2n
United States	3	3	3	2	2	2n
<b>Total</b>	<b>124</b>	<b>139</b>	<b>122</b>	<b>98</b>	<b>101</b>	

## Indium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Belgium	25	20	20	20	20	2b
Brazil	5	5	5	5	0	2n
Canada	67	70	71	67	58	1b
China	437	387	357	355	395	1e

France	43	41	0	30	43	1n
Germany	10	10	10	10	0	2n
Italy	5	5	5	5	5	2n
Japan	70	70	70	70	70	2b
Korea, South	150	195	210	215	235	1b
Netherlands	5	0	0	0	0	2n
Peru	14	9	5	5	5	2n
Russia	43	40	5	5	4	1n
Total	874	852	758	787	835	

## Lead

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	29 911	29 834	28 016	40 135	28 260	1e
Australia	727 954	653 488	441 338	392 858	431 552	1e
Bolivia	75 572	75 273	89 906	113 286	112 140	1e
Bosnia-Herzegovina	6 190	6 660	6 600	6 740	7 070	1n
Brazil	10 978	9 441	9 015	6 959	7 277	1n
Bulgaria	17 020	18 370	22 040	22 860	24 200	1e
Burkina Faso	1 880	1 000	0	0	0	1n
Canada	3 617	3 809	12 653	20 477	14 441	1e
Chile	2 678	2 979	1 110	1 562	712	1e
China	2 608 600	2 339 000	2 227 500	2 080 000	2 033 000	1e
Congo, D.R.	764	653	101	0	0	1e
Cuba			0	1 500	25 380	1n
Greece	13 016	10 074	11 283	12 075	15 345	1n
Guatemala	10 359	10 153	10 000	4 200	0	1a
Honduras	15 500	9 800	4 000	6 761	9 893	1n
India	111 370	143 710	150 860	172 720	198 270	3e
Indonesia	4 690	5 470	5 280	7 635	11 380	1n
Iran	44 000	40 800	47 000	48 000	48 000	2q
Ireland	40 500	31 300	19 600	17 100	16 712	1n
Kazakhstan	37 800	40 700	70 500	111 200	86 500	1e
Korea, North	36 100	32 300	36 800	31 600	35 000	2q
Korea, South	2 760	2 920	2 840	3 760	2 340	1e
Kosovo	7 700	5 400	6 530	5 100	4 700	1q
Laos	100	190	510	660	330	1e
Mexico	250 462	263 772	246 755	243 022	230 869	1a
Mongolia	520	200	4 720	7 390	11 320	1e
Montenegro	2 120	2 170	2 500	3 050	2 770	1n
Morocco	27 530	32 160	28 670	38 040	50 900	1n
Myanmar	18 000	13 600	21 600	14 890	24 930	1n
Namibia	11 700	9 700	6 800	5 805	4 291	1n
Nigeria	11 400	16 000	14 500	24 260	17 900	1e
North Macedonia	43 810	37 920	31 030	39 850	42 300	1e
Pakistan	1 195	136	1 196	3 050	4 820	1n
Peru	277 294	315 525	314 422	306 784	289 195	1e
Poland	83 150	49 000	43 060	39 000	40 210	1e
Portugal	3 191	3 077	4 126	5 164	19 440	1e
Romania	570	200	120	720	1 200	1e
Russia	196 000	180 000	204 300	210 800	220 000	1e
Serbia	9 690	13 610	13 610	13 890	13 810	1e
Slovakia	162	226	133	147	114	1e
South Africa	29 348	34 573	39 344	48 150	35 118	1e
Spain	1 223	1 598	4 946	7 200	20 150	1n
Sweden	70 848	79 354	75 830	71 112	64 751	1a



Tajikistan	32 400	40 130	57 360	61 090	58 560	1n
Turkey	94 900	75 900	64 300	74 990	75 990	1e
United Kingdom	0	0	100	100	100	3e
United States	378 000	370 000	346 000	310 000	280 000	1e
Uzbekistan	3 000	3 000	2 000	2 000	5 000	2n
Vietnam	2 800	1 900	800	4 500	14 500	1n
<b>Total</b>	<b>5 358 372</b>	<b>5 017 075</b>	<b>4 731 704</b>	<b>4 642 192</b>	<b>4 640 740</b>	

## Lithium (Li<sub>2</sub>O-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	7 390	7 860	12 200	12 360	13 810	1e
Australia	22 200	24 140	29 640	98 260	114 920	1n
Bolivia		0	10	20	10	1e
Brazil	452	308	440	533	600	2n
Canada			0	66	8 750	1n
Chile	24 820	22 500	31 240	32 520	38 850	1e
China	4 100	4 350	4 540	4 900	6 550	1n
Namibia				0	600	1e
Nigeria				0	50	1e
Portugal	208	204	307	604	914	1a
United States	2 150	1 820	1 800	1 420	1 500	2n
Zimbabwe	1 630	1 405	2 030	1 750	3 160	1e
<b>Total</b>	<b>62 950</b>	<b>62 587</b>	<b>82 207</b>	<b>152 433</b>	<b>189 714</b>	

## Mercury

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	52	59	135	54	50	2n
Chile	20	14	2	5	3	1e
China	2 260	2 800	3 433	1 949	2 316	1e
Iran	12	14	2	3	0	1a
Kyrgyzstan	46	20	50	10	20	1e
Mexico	301	307	267	200	230	1e
Morocco	20	20	20	10	10	2n
Russia	50	50	50	50	50	2n
Tajikistan	85	96	120	100	120	2n
United States	15	15	15	15	15	2n
<b>Total</b>	<b>2 861</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 814</b>	

## Rare Earths Concentrates (REO-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	7 191	10 916	13 872	17 264	18 556	1n
Brazil	0	1 040	2 900	1 700	1 100	2b
Burundi				31	631	1n
China	95 000	105 000	105 000	105 000	120 000	1e
India	1 836	956	2 265	2 300	2 900	2n
Malaysia	455	565	1 876	302	86	1e
Russia	2 134	2 312	3 063	2 500	2 596	1n
United States	4 769	3 678	0	0	18 000	1e
<b>Total</b>	<b>111 385</b>	<b>124 467</b>	<b>128 976</b>	<b>129 097</b>	<b>163 869</b>	

## Rhenium

Country	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg	Rem
Armenia	351	104	405	375	405	1e
Chile	18 057	22 535	22 542	20 451	26 052	1n
China	2 300	2 400	2 400	2 500	2 500	2b
Kazakhstan	300	3 306	6 700	2 600	1 600	1e
Poland	5 335	6 346	6 443	7 564	6 290	1e
Russia	1 500	1 500	1 500	1 500	1 000	1e
United States	8 510	7 900	8 440	8 200	8 220	1e
Uzbekistan	900	1 000	660	530	500	2n
<b>Total</b>	<b>37 253</b>	<b>45 091</b>	<b>49 090</b>	<b>43 720</b>	<b>46 567</b>	

## Selenium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Armenia	0	1	1	1	0	2n
Belgium	200	200	200	200	200	2b
Canada	142	156	175	72	85	1e
Chile	0	0	0	0	0	1e
China	720	729	772	720	750	2n
Finland	94	93	104	100	109	1e
Germany	700	660	700	300	300	2b
India	16	17	17	17	17	2n
Japan	782	773	752	792	768	1e
Kazakhstan	50	13	13	40	10	2n
Mexico	120	99	121	112	107	1a
Peru	40	40	45	50	55	2n
Philippines	70	70	90	100	100	2n
Poland	90	87	82	74	66	1e
Russia	170	180	197	194	185	2n

Serbia	17	17	18	27	28	1n
Sweden	20	30	60	90	40	2n
United States	160	90	122	116	120	2n
Uzbekistan	20	20	10	50	48	1e
Total	3 411	3 275	3 479	3 055	2 988	

## Tellurium

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Bulgaria	5	4	4	5	4	1e
Canada	8	10	18	18	25	1b
China	180	277	279	470	480	1e
Japan	37	37	33	38	58	1e
Peru	9	0	0	0	0	2n
Russia	33	35	40	44	35	1n
Sweden	31	33	39	35	45	1e
United States	50	50	50	0	0	1e
Total	353	446	463	610	647	

## Tin

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	6 898	7 158	6 635	7 402	6 871	1e
Bolivia	19 791	20 135	17 460	18 386	17 251	1e
Brazil	25 534	20 010	15 183	17 081	17 100	2q
Burundi	81	55	51	123	126	1e
China	102 100	110 200	91 610	74 800	87 414	1e
Congo, D.R.	4 012	4 567	6 503	10 391	8 950	1e
Egypt	48	0	0	0	0	1n
India	19	10	9	13	21	3e
Indonesia	75 170	70 310	62 877	78 070	83 015	1e
Laos	782	461	1 005	975	1 395	1e
Malaysia	3 777	4 159	4 158	4 819	3 868	1e
Mongolia	60	41	25	20	25	1e
Myanmar	35 000	58 000	61 400	67 300	54 500	1n
Nigeria	2 485	2 298	3 443	8 260	7 850	1e
Peru	23 105	19 511	18 789	17 790	18 601	1e
Portugal	75	42	54	81	111	1a
Russia	321	578	627	3 300	1 531	1e
Rwanda	4 270	2 770	2 560	3 430	3 405	1e
Spain	0	0	7	24	32	1q
Tanzania	59	134	104	68	6	1e
Thailand	98	45	58	341	47	1e
Uganda	33	135	62	66	53	1e
United Kingdom		16	144	255	220	1n
Vietnam	4 072	4 399	4 468	4 950	5 470	1q
Total	307 790	325 034	297 232	317 945	317 862	

## Zinc

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	0	50	330	350	500	2q
Argentina	28 038	30 498	22 792	23 392	22 050	1e
Armenia	8 459	7 111	4 960	6 070	6 946	1e
Australia	1 505 968	1 610 004	884 826	852 164	1 111 841	1e
Bolivia	448 970	442 154	486 955	527 206	519 630	1e
Bosnia-Herzegovina	8 180	8 840	8 840	9 180	9 350	1n
Brazil	169 766	156 926	158 197	156 348	167 249	1n
Bulgaria	13 070	16 390	18 790	19 250	20 390	1e
Burkina Faso	67 680	68 670	80 950	91 530	99 162	1n
Canada	352 125	289 584	321 272	346 776	287 119	1e
Chile	45 094	48 071	42 870	29 008	26 810	1e
China	5 118 400	4 748 000	4 635 000	4 300 000	4 160 000	1e
Congo, D.R.	12 737	12 675	12 587	12 337	1 047	1e
Congo, Rep.		0	520	4 270	460	1e
Cuba			0	2 900	42 250	1n
Dominican Republic		4 655	3 636	3 920	4 038	1a
Eritrea		0	40 900	95 400	125 000	1n
Finland	46 063	25 332	45 852	66 284	85 067	1e
Greece	22 953	13 174	18 866	18 715	21 515	1n
Guatemala	13 394	14 810	15 000	6 100	0	1a
Honduras	30 000	23 000	14 500	20 437	28 422	1n
India	767 180	740 740	755 780	772 600	719 920	1e
Indonesia	740	21 260	8 540	13 800	20 070	1n
Iran	150 000	168 210	176 400	196 000	210 000	1a
Ireland	282 600	236 300	147 800	130 600	131 742	1n
Kazakhstan	345 200	342 500	324 800	315 900	304 400	1e
Korea, North	32 000	45 000	64 000	36 000	30 000	2q
Korea, South	1 920	2 070	2 260	3 320	3 660	1e
Kosovo	5 500	4 000	4 800	4 500	3 600	1q
Laos	2 000	0	750	0	3 080	1n
Mexico	659 878	786 774	666 896	671 444	662 355	1a
Mongolia	46 600	44 800	50 100	41 350	43 950	1e
Montenegro	7 200	7 000	8 100	8 820	9 680	1n
Morocco	45 410	53 750	43 020	51 700	51 000	3e
Myanmar	6 100	4 850	6 500	13 150	12 240	1n
Namibia	156 300	123 675	132 470	131 920	118 310	1n
Nigeria	7 000	14 200	13 400	22 130	26 920	1e
North Macedonia	31 570	29 150	24 870	27 510	29 720	1e
Pakistan	0	0	7 700	19 460	26 980	1n
Peru	1 315 475	1 421 218	1 337 081	1 473 073	1 474 674	1e
Poland	70 000	65 000	61 000	50 000	43 000	1e
Portugal	67 384	66 871	71 052	71 357	144 983	1a
Romania	3 120	2 900	1 500	770	330	1n
Russia	193 900	213 800	245 800	255 200	261 000	1e
Saudi Arabia	19 830	19 020	4 230	21 787	26 330	1n
Serbia	8 440	11 700	11 700	11 900	11 830	1e
Slovakia	176	190	126	166	151	1e
South Africa	26 141	29 040	26 695	30 778	28 129	1e
Spain	26 756	49 216	76 342	70 451	95 475	1n
Sweden	221 841	246 983	258 264	251 244	237 715	1a
Tajikistan	42 740	50 400	73 850	92 940	96 410	1n
Thailand	45 380	36 210	35 130	1 580	0	1e

Tunisia	7 400	0	0	0	0	2n
Turkey	211 500	173 600	118 700	155 900	184 500	1q
United States	830 800	824 700	804 800	773 800	824 000	1e
Uzbekistan	50 000	50 000	50 000	55 000	56 000	2n
Vietnam	17 000	15 000	12 000	12 000	12 000	2q
Total	13 595 978	13 420 071	12 444 099	12 379 787	12 643 000	

### 6.4.3 Precious Metals

#### Gold

Country	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg	Rem
Algeria	85	106	102	137	286	1e
Argentina	60 170	63 231	56 967	60 956	58 375	1e
Armenia	2 845	2 805	3 732	4 670	4 909	1n
Australia	271 856	277 372	290 767	292 022	313 028	1e
Azerbaijan	1 875	2 240	2 034	6 617	4 239	1e
Benin	6	6	7	5	5	1a
Bolivia	24 803	19 770	22 545	28 726	31 599	1e
Botswana	958	756	833	913	1 105	1e
Brazil	81 038	83 127	94 153	79 717	81 000	1e
Bulgaria	6 810	7 930	7 920	8 670	8 995	1e
Burkina Faso	36 321	36 540	38 530	46 398	52 622	1e
Burundi	650	549	396	953	1 255	1e
Cameroon	517	795	542	713	448	1e
Canada	152 460	162 504	163 923	178 568	186 866	1e
Central African Republic	7	15	33	118	142	1e
Chile	46 031	42 501	46 333	37 911	37 066	1e
China	451 799	450 053	453 500	426 142	401 119	1e
Colombia	57 896	59 638	63 157	43 128	35 560	1e
Congo, D.R.	23 937	31 878	30 664	31 586	36 777	1e
Congo, Rep.	150	150	100	100	150	2n
Costa Rica	1 050	950	750	4 255	3 699	1a
Cote d'Ivoire	18 600	23 460	25 055	25 396	24 457	1e
Cyprus			0	48	47	1a
Dominican Republic	36 085	31 134	37 933	35 221	31 640	1a
Ecuador	7 322	7 723	6 761	6 368	8 213	1e
Egypt	11 734	13 657	17 139	16 941	14 694	1n
Eritrea	840	753	333	1 000	1 000	2n
Ethiopia	10 340	9 370	8 573	5 390	3 495	1a
Fiji	1 196	1 290	1 500	1 425	1 281	1e
Finland	8 085	8 342	8 865	9 102	8 732	1e
French Guiana	1 689	1 374	1 321	1 486	1 200	1e
Gabon	1 078	1 472	1 020	620	83	1e
Georgia	2 300	3 073	3 621	3 032	2 913	1e
Ghana	106 782	96 926	128 026	143 438	149 048	1e
Greece	2 328	1 600	940	823	2 839	1e
Guatemala	6 140	5 641	3 907	1 646	0	1a
Guinea	23 465	21 460	29 192	46 847	25 823	1e
Guyana	12 053	14 029	22 168	20 334	19 069	1e
Honduras	2 762	2 598	2 607	2 656	2 070	1n
India	1 440	1 323	1 594	1 648	1 360	1e
Indonesia	69 349	92 171	91 090	101 510	135 250	1a

Iran	1 760	2 368	4 537	7 100	7 600	1a
Japan	7 114	7 699	6 455	6 369	6 453	1e
Kazakhstan	50 339	63 614	74 737	85 339	100 288	1e
Kenya	237	337	197	503	472	1e
Korea, North	10 000	10 000	10 000	10 000	10 000	3e
Korea, South	283	269	205	285	239	1e
Kyrgyzstan	18 117	17 015	19 856	22 795	22 316	1n
Laos	5 260	6 893	6 764	5 988	5 579	1n
Liberia	620	829	4 704	6 071	7 096	1e
Madagascar	160	160	586	2 834	2 977	1e
Malaysia	4 308	4 854	2 249	2 124	2 978	1e
Mali	45 800	46 503	46 903	49 622	60 893	1e
Mauritania	9 624	8 805	7 127	9 096	9 236	1e
Mexico	117 771	134 759	133 552	126 820	141 143	1a
Mongolia	19 963	20 829	18 436	19 849	20 655	1e
Morocco	377	448	352	220	160	1n
Mozambique	197	242	201	166	507	1e
Myanmar	1 315	1 692	1 446	1 620	203	1e
Namibia	2 140	6 410	7 062	7 800	6 632	1e
New Zealand	11 989	12 687	9 866	10 288	10 045	1e
Nicaragua	8 160	7 612	8 391	7 367	7 703	1a
Niger	732	1 220	999	914	6 207	1e
Nigeria	7 100	7 000	7 000	7 000	10 000	2q
North Macedonia	480	494	664	972	767	1n
Panama	11	0	0	0	0	1n
Papua New Guinea	56 387	57 633	61 785	61 678	67 282	1n
Peru	140 097	146 823	153 006	151 964	142 643	1e
Philippines	18 423	20 643	23 053	22 749	20 765	1e
Poland	226	431	402	572	523	1e
Romania	500	500	500	960	900	2n
Russia	249 065	255 200	253 580	270 300	279 850	1e
Rwanda	203	800	1 980	2 000	2 163	1e
Saudi Arabia	4 789	5 089	7 010	10 465	13 397	1a
Senegal	6 588	5 779	6 741	7 255	12 508	1n
Serbia	1 310	1 186	805	1 199	839	1n
Sierra Leone	43	106	188	142	464	1e
Slovakia	582	603	466	447	515	1e
Solomon Islands	531	0	0	0	0	1e
South Africa	151 622	144 504	142 202	137 290	117 144	1e
Spain	1 942	1 825	1 291	1 825	1 991	1n
Sudan	73 300	82 400	93 000	107 300	93 600	1e
Suriname	10 641	9 397	12 926	25 844	26 006	1n
Sweden	6 849	6 028	6 463	7 858	7 866	1a
Taiwan	5	2	0	4	4	1e
Tajikistan	3 436	4 200	5 040	5 500	6 432	1e
Tanzania	40 481	43 861	45 778	43 490	39 304	1e
Thailand	4 514	3 305	4 293	0	0	1e
Togo	20 583	15 568	14 470	19 960	10 000	2e
Turkey	31 260	27 800	24 030	23 090	27 100	1a
Uganda	24	13	11	4	12	1e
United Kingdom	0	0	6	0	0	1e
United States	210 077	213 808	228 267	236 778	226 000	1e
Uruguay	1 719	1 413	999	1 055	393	1n
Uzbekistan	102 000	103 000	100 000	89 900	88 500	1e
Venezuela	1 056	558	800	8 100	9 100	1e
Vietnam	687	539	584	557	600	2n
Zambia	4 803	4 238	4 610	4 373	4 044	1n
Zimbabwe	15 386	20 023	22 747	26 495	35 054	1e
Total	3 027 838	3 120 326	3 257 955	3 337 532	3 367 607	

## Palladium

Country	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg	Rem
Australia	613	425	610	610	430	1e
Botswana	560	156	0	0	0	1n
Canada	22 000	22 600	21 200	19 140	20 880	2n
China	1 000	1 200	1 300	1 400	1 300	1e
Finland	808	784	901	1 021	1 157	1e
Poland	25	20	30	7	5	2n
Russia	80 530	75 710	86 500	76 270	92 570	1n
Serbia	23	22	23	50	55	1n
South Africa	58 410	82 691	76 273	80 713	80 629	1e
United States	12 448	12 532	13 070	13 600	14 377	1n
Zimbabwe	10 138	10 055	12 222	11 822	12 094	1e
Total	186 555	206 195	212 129	204 633	223 497	

## Platinum

Country	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg	Rem
Australia	153	108	152	155	110	1e
Botswana	124	31	0	0	0	1n
Canada	8 700	10 000	9 700	6 850	7 460	2n
China	1 600	2 300	3 000	2 500	2 500	1e
Colombia	1 142	861	917	567	269	1e
Finland	1 060	992	1 178	1 418	1 576	1e
Poland	40	40	50	11	8	2n
Russia	21 770	20 839	22 300	22 400	21 370	1n
Serbia	3	2	3	3	6	1n
South Africa	93 991	139 125	133 241	132 500	137 053	1e
United States	3 655	3 667	3 891	3 980	4 055	1n
Zimbabwe	12 483	12 564	15 110	14 257	14 703	1e
Total	144 721	190 529	189 542	184 641	189 110	

## Rhodium

Country	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg	Rem
Canada	550	530	650	600	750	2n
Russia	2 488	2 488	2 644	2 426	2 146	1n
South Africa	12 916	18 722	19 237	18 665	18 608	1e
United States	124	96	103	100	100	2n
Zimbabwe	1 140	1 128	1 322	1 283	1 334	1e
Total	17 218	22 964	23 956	23 074	22 938	

## Silver

Country	2014 kg	2015 kg	2016 kg	2017 kg	2018 kg	Rem
Algeria	16	20	20	25	30	2n
Argentina	989 950	1 175 246	1 055 700	997 961	1 023 768	1e
Armenia	18 374	18 350	14 100	17 200	16 700	2n
Australia	1 846 847	1 430 298	1 418 219	1 120 175	1 254 480	1e
Azerbaijan	970	890	5 136	6 949	8 943	1n
Bolivia	1 346 941	1 306 977	1 356 620	1 222 371	1 191 024	1e
Botswana	22 328	2 800	0	0	0	1e
Brazil	32 300	44 142	48 793	46 400	49 600	1q
Bulgaria	50 200	37 955	52 526	53 053	41 315	1e
Burkina Faso	0	2 400	5 670	5 470	6 160	1n
Canada	495 403	383 807	398 509	392 788	368 113	1e
Chile	1 571 788	1 504 271	1 501 436	1 318 582	1 370 237	1e
China	3 499 144	3 421 385	3 570 682	3 502 254	3 573 792	1n
Colombia	11 692	11 602	11 866	12 074	15 967	1e
Congo, D.R.	6 485	2 412	835	3 376	3 400	2n
Cote d'Ivoire	600	576	549	493	510	1n
Cyprus			0	99	180	1a
Dominican Republic	135 025	95 706	121 749	151 828	166 510	1a
Ecuador	577	2 521	934	68	192	1e
Eritrea	47 402	38 910	13 219	1 192	31 000	1n
Ethiopia	1 000	990	880	750	1 000	2q
Fiji	361	354	354	350	358	1e
Finland	12 830	13 051	16 348	13 654	12 849	1e
Ghana	4 000	4 000	3 100	4 000	4 000	2n
Greece	35 785	28 050	29 342	34 220	34 890	1n
Guatemala	858 356	862 814	837 793	336 944	0	1a
Honduras	56 826	34 369	17 803	21 785	31 182	1n
India	327 647	426 443	460 811	557 691	652 900	3e
Indonesia	165 760	201 595	228 640	328 780	308 810	1a
Iran	34 945	48 380	50 000	50 000	50 000	2q
Ireland	6 436	3 770	1 076	1 344	1 160	1n
Japan	3 541	4 616	5 076	3 408	3 596	1e
Kazakhstan	983 697	1 306 575	1 182 476	1 041 838	969 347	1e
Korea, North	50 000	50 000	50 000	70 000	70 000	3e
Korea, South	3 264	4 586	6 579	8 863	7 090	1e
Kyrgyzstan	21 182	17 220	15 451	14 168	13 641	1n
Laos	39 801	51 764	50 904	42 841	37 465	1n
Malaysia	533	945	1 075	1 404	1 542	1e
Mali	2 489	2 608	2 600	2 900	3 000	2n
Mexico	5 765 662	5 955 151	5 474 968	5 815 034	7 243 245	1a
Mongolia	56 210	79 910	84 920	67 190	64 750	1e
Morocco	189 147	247 490	268 523	238 530	155 000	2n
Namibia	1 128	877	4 702	6 490	3 850	1n
New Zealand	15 811	12 498	7 960	8 022	6 332	1e
Nicaragua	13 889	18 577	21 382	15 419	11 263	1a
Niger	67	100	100	100	300	2n
North Macedonia	23 910	17 660	13 970	17 630	18 570	1n
Papua New Guinea	84 379	73 166	95 879	69 650	72 943	1n
Peru	3 768 147	4 101 568	4 375 337	4 417 987	4 162 658	1e
Philippines	23 005	29 780	35 186	31 737	29 782	1e
Poland	1 186 014	1 209 094	1 264 659	1 289 900	1 264 300	1n
Portugal	43 172	41 337	38 631	40 186	55 706	1n
Romania	18 000	18 000	18 000	18 000	18 000	2q
Russia	1 433 871	1 580 058	1 449 423	1 306 347	1 349 890	1e
Saudi Arabia	4 888	4 500	4 710	5 133	6 480	1a
Senegal	1 150	540	640	660	940	1e
Serbia	8 586	7 488	11 345	12 340	8 970	1n



Slovakia	437	532	391	410	345	1e
Solomon Islands	271	0	0	0	0	1e
South Africa	49 220	51 861	55 622	62 536	46 467	1e
Spain	31 000	27 300	74 740	82 700	89 980	1e
Sudan	1 000	1 000	1 000	2 000	1 000	1n
Sweden	382 611	479 686	498 686	467 500	443 624	1a
Tajikistan	1 870	2 658	3 200	6 550	9 500	1e
Tanzania	14 493	15 569	17 984	10 911	12 041	1e
Thailand	31 046	21 047	35 954	0	0	1e
Turkey	183 880	190 550	174 180	151 490	202 400	1a
United Kingdom	0	0	14	0	0	1e
United States	1 183 900	1 090 000	1 153 000	1 030 000	934 000	1e
Uzbekistan	100 000	200 000	231 000	232 300	161 700	1e
<b>Total</b>	<b>27 301 259</b>	<b>28 020 395</b>	<b>27 952 977</b>	<b>26 794 050</b>	<b>27 698 787</b>	

## 6.4.4 Industrial Minerals

### Asbestos

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	0	130	0	26	0	1e
Brazil	311 227	232 052	177 800	129 094	101 000	1e
China	400 000	250 000	203 000	125 000	170 000	1e
Kazakhstan	213 100	179 800	192 600	192 700	202 900	1e
Russia	733 068	647 690	713 675	710 250	752 500	1n
<b>Total</b>	<b>1 657 395</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 400</b>	

### Baryte

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	56 829	32 020	39 980	29 159	39 426	1e
Argentina	16 265	12 917	12 389	15 553	7 225	1e
Australia	14 676	6 017	7 139	8 958	6 535	1e
Bolivia	26 240	46 732	16 632	29 114	53 163	1e
Brazil	3 389	17 760	12 133	16 275	17 000	2n
Bulgaria	20 000	60 000	50 000	64 000	70 000	1e
Canada	35 000	42 000	20 000	50 000	50 000	2n
China	4 100 000	2 984 000	2 771 100	3 100 000	3 100 000	2n
Colombia	4 688	4 003	3 068	1 791	2 586	1e
Ecuador				0	2 868	1e
Egypt	3 380	3 800	4 000	4 000	4 000	2n
Germany	87 575	68 297	49 373	34 177	39 218	1e
Guatemala	43	544	500	43	63	1a
India	1 010 214	1 252 262	1 262 100	2 050 215	2 000 000	2n
Iran	671 316	1 085 667	1 449 038	514 711	477 227	1a
Kazakhstan	655 500	752 300	612 300	569 900	570 000	2n
Korea, North	20	12 000	9 000	4 200	4 200	2n

Laos	30 610	32 150	33 240	33 325	35 000	1e
Malaysia	575	0	0	0	0	1e
Mexico	130 914	265 700	173 781	359 912	523 980	1a
Morocco	1 006 600	1 212 130	668 500	818 016	800 000	2n
Myanmar	23 060	4 535	2 627	3 206	9 658	1a
Nigeria	7 113	3 323	537	717	387	1e
Pakistan	133 658	118 773	157 858	91 711	88 847	1e
Peru	106 071	28 407	7 953	9 182	15 621	1e
Russia	215 000	210 000	434 000	221 000	265 300	1e
Saudi Arabia	32 000	0	0	0	0	1a
Slovakia	20 900	20 000	23 000	15 700	11 100	1e
Thailand	134 961	170 621	223 101	147 954	67 490	1e
Tunisia	9 800	10 000	10 000	10 000	10 000	2n
Turkey	203 984	655 943	321 239	292 447	465 138	1e
United Kingdom	44 000	50 000	56 000	55 000	55 000	2n
United States	667 000	433 000	232 000	334 000	366 000	1e
Vietnam	112 000	140 000	80 000	70 000	50 000	2n
Total	9 583 381	9 734 901	8 742 588	8 954 266	9 207 032	

## Bentonite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	31 510	34 400	37 100	35 600	36 000	1e
Argentina	280 407	229 715	145 723	156 750	184 969	1e
Armenia	3 640	9 228	13 956	24 712	0	1e
Australia	70 000	75 000	59 000	68 000	61 000	2n
Azerbaijan	81 900	56 800	54 545	235 617	212 300	1e
Bolivia	886	1 023	525	68	2	1e
Bosnia-Herzegovina	80 952	67 261	102 858	92 344	87 358	1e
Brazil	405 169	517 607	354 016	500 000	500 000	2n
Bulgaria	41 100	61 600	37 100	54 100	45 000	1e
Chile	1 083	1 434	1 288	1 584	525	1e
China	3 600 000	3 650 000	5 600 000	5 600 000	5 600 000	2n
Cuba	700	500	389	589	630	1e
Cyprus	140 174	127 036	117 184	95 593	98 800	1a
Czech Republic	301 000	369 000	374 000	254 000	277 000	1a
Denmark	66 388	54 272	66 278	69 594	56 173	1e
Egypt	3 615	4 500	3 600	2 000	2 000	2n
France	11 607	36 403	42 567	24 497	35 696	1e
Germany	394 657	392 831	393 000	416 000	379 000	1e
Greece	1 011 485	1 123 320	883 220	1 087 800	1 365 374	1a
Guatemala	75 200	718	18 081	20 542	16 953	1a
Hungary	13 893	14 170	16 000	24 630	25 000	2n
India	1 333 000	1 580 000	2 978 858	3 488 264	3 000 000	2n
Indonesia	7 000	7 000	7 000	7 000	7 000	2n
Iran	419 693	435 974	356 036	517 524	423 604	1a
Iraq	255	0	0	0	0	2n
Italy	20 000	12 840	45 978	86 106	100 067	1e
Japan	500 000	500 000	500 000	500 000	500 000	2n
Kazakhstan			119 100	120 000	120 000	2n
Korea, South	71 850	78 439	63 834	47 306	31 824	1e
Mexico	519 625	294 236	109 176	148 475	264 800	1a
Morocco	98 757	92 290	103 230	174 546	175 000	2n
Mozambique	739	350	322	285	1 091	1e
Myanmar	0	700	600	600	540	1a
New Zealand	1 000	700	700	700	4 482	1e

North Macedonia	16 920	9 012	1 968	912	2 945	1e
Norway				0	3 234	1e
Pakistan	40 374	23 283	42 038	41 635	74 268	1e
Peru	37 375	21 341	19 410	756	2 383	1e
Philippines	3 370	3 480	3 230	2 620	660	1e
Poland	650	450	1 000	0	560	1e
Romania	18 583	19 355	24 996	28 005	34 809	1a
Russia	500 000	498 000	589 600	669 700	714 000	2e
Slovakia	214 000	228 433	173 530	226 425	269 990	1e
Slovenia	199	232	182	147	113	1a
South Africa	171 119	165 535	148 742	165 141	173 486	1e
Spain	105 627	100 604	155 038	177 565	178 463	1e
Turkey	1 098 817	3 134 911	1 744 912	1 481 617	1 331 955	1e
Turkmenistan	7 387	10 000	10 000	10 000	10 000	2n
Ukraine	220 000	220 000	200 000	113 200	178 200	1e
United States	4 580 000	4 080 000	4 000 000	4 430 000	4 670 000	1e
Uruguay	7 800	4 252	6 650	6 640	7 760	1e
Total	16 609 506	18 348 235	19 726 560	21 209 189	21 265 014	

## Boron

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	395 058	248 683	148 390	129 918	71 212	1e
Bolivia	151 799	148 738	182 685	208 388	216 403	1e
Chile	496 533	517 584	558 854	607 076	398 411	1e
China	97 000	90 000	80 000	70 000	80 000	2n
Iran	180	515	36	850	851	1a
Kazakhstan	30 000	30 000	30 000	30 000	30 000	2n
Peru	239 725	578 910	33 792	0	100 552	1e
Russia	81 234	82 000	78 800	82 500	88 000	1n
Turkey	1 870 000	1 840 000	1 831 000	2 025 000	2 432 000	1n
United States	1 118 000	1 218 000	1 134 000	1 075 000	1 075 000	1n
Total	4 479 529	4 754 430	4 077 557	4 228 732	4 492 429	

## Diamonds (Gem)

Country	2014 ct	2015 ct	2016 ct	2017 ct	2018 ct	Rem
Angola	7 875 803	8 117 048	8 119 320	8 494 920	7 567 820	1c
Australia	185 760	271 220	279 160	342 690	280 160	1e
Botswana	17 260 600	14 576 800	14 623 700	16 058 700	17 064 600	1e
Brazil	18 785	10 503	60 560	84 115	82 810	1e
Canada	12 011 619	11 677 471	13 315 319	23 198 761	22 789 001	1e
Central African Republic	34 000	34 000	9 973	47 840	10 020	1e
China	0	0	127	230	99	1c
Congo, D.R.	3 331 600	3 150 700	3 111 890	2 268 332	1 815 745	1e
Cote d'Ivoire	859	11 940	16 188	8 925	4 540	1e
Ghana	192 896	139 350	114 400	69 540	46 025	1e
Guinea	123 044	125 161	84 597	136 090	219 530	1c
Guyana	74 963	88 838	104 920	39 120	46 580	1e
India	2 889	12 784	13 970	12 940	13 020	1c

Lesotho	69 203	60 846	68 403	225 280	258 860	1c
Liberia	44 930	39 600	36 220	36 380	45 270	1e
Namibia	1 791 002	1 676 108	1 494 350	1 713 800	1 985 670	1e
Russia	22 982 100	25 147 434	24 431 760	21 860 500	22 973 133	1e
Sierra Leone	503 942	420 158	417 952	165 860	402 530	1e
South Africa	3 223 527	3 293 220	3 322 220	3 877 040	3 965 710	1e
Tanzania	214 945	184 025	203 915	258 785	324 105	1e
Venezuela				0	800	1e
Zimbabwe	1 431 491	1 008 000	639 920	752 360	975 730	1e
Total	71 373 958	70 045 206	70 468 864	79 652 208	80 871 758	

## Diamonds (Ind)

Country	2014 ct	2015 ct	2016 ct	2017 ct	2018 ct	Rem
Angola	875 089	901 894	902 147	943 880	840 870	1c
Australia	9 102 360	13 289 580	13 678 840	16 792 040	13 727 890	1e
Botswana	7 397 400	6 247 200	6 267 300	6 882 300	7 313 400	1e
Brazil	38 138	21 323	122 955	170 780	168 130	1e
Cameroon	3 718	2 245	994	1 757	1 805	1c
Central African Republic	8 500	8 500	2 493	11 960	2 505	1e
Congo, D.R.	13 326 400	12 602 790	12 447 557	16 634 432	13 315 465	1e
Congo, Rep.	53 163	40 057	12 110	46 758	46 768	1e
Cote d'Ivoire	215	2 985	4 047	2 231	1 140	1e
Ghana	48 224	34 838	28 605	17 385	11 505	1e
Guinea	41 015	41 720	28 200	45 360	73 180	1c
Guyana	24 988	29 613	34 970	13 040	15 530	1e
India	33 218	23 260	22 520	26 760	26 430	1c
Lesotho	276 814	243 386	273 611	901 130	1 035 420	1c
Liberia	29 950	26 400	24 150	24 250	30 180	1e
Namibia	94 263	88 216	78 650	90 200	104 510	1e
Russia	15 321 400	16 764 956	16 287 840	20 754 280	20 187 926	1e
Sierra Leone	90 426	79 875	131 550	122 380	339 070	1e
South Africa	4 835 290	4 939 840	4 983 330	5 815 560	5 948 560	1e
Tanzania	37 930	32 475	35 985	45 670	57 195	1e
Togo	23	0	0	0	0	1e
Venezuela				0	1 200	1e
Zimbabwe	3 340 146	2 352 000	1 493 140	1 755 500	2 276 690	1e
Total	54 978 670	57 773 153	56 860 994	71 097 653	65 525 369	

## Diatomite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	2 426	2 360	2 535	2 439	2 468	1e
Argentina	190 039	60 951	57 113	70 419	72 490	1e
Armenia	20 439	18 915	25 486	23 465	0	1e
Australia	1 679	4 923	1 033	1 085	4	1e
Brazil	5 080	5 530	16 408	16 000	16 000	2n
Chile	31 000	26 186	26 937	27 557	24 736	1e
China	430 000	420 000	400 000	400 000	280 000	1e
Costa Rica	10 851	20 537	20 500	4 218	3 972	1a

Czech Republic	34 000	15 000	26 000	34 000	31 000	1a
Denmark	118 800	127 500	114 400	110 000	99 400	1e
Ethiopia	4 000	4 000	4 000	4 000	5 000	2n
France	90 000	90 000	90 000	90 000	90 000	2n
Iran	9 912	9 500	37	0	0	1a
Kenya	1 195	1 090	1 238	1 406	1 548	1e
Korea, South	65 893	15 310	20 564	133 741	25 902	1e
Mexico	87 849	89 810	109 970	96 474	152 028	1a
Mozambique	78	0	1 305	0	34 200	1e
New Zealand	43 624	0	0	0	0	2n
Peru	151 398	120 672	107 265	96 590	96 532	1e
Poland	590	600	500	500	580	1e
Spain	59 619	47 706	48 231	70 550	70 000	2n
Turkey	61 884	86 656	61 722	169 584	242 789	1e
United States	901 000	832 000	686 000	768 000	957 000	1e
Total	2 321 356	1 999 246	1 821 244	2 120 028	2 205 649	

## Feldspar

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	230 372	154 500	168 000	170 000	170 000	2n
Argentina	162 854	186 974	155 217	154 770	124 500	1e
Australia	46 202	40 777	31 768	329	542	1e
Austria	35 000	35 000	35 000	35 000	35 000	1e
Brazil	313 328	456 308	295 778	290 000	300 000	2n
Chile	4 233	6 577	6 352	4 421	2 789	1e
China	2 300 000	2 350 000	2 400 000	2 500 000	2 500 000	2n
Colombia	158 741	159 740	151 759	150 334	141 164	1e
Cuba	3 600	3 300	5 790	8 715	1 500	1e
Czech Republic	422 000	433 000	454 000	368 000	449 000	1a
Dominican Republic	20 800	7 800	5 200	5 000	1 200	1a
Ecuador	183 259	253 253	148 506	92 871	43 197	1e
Egypt	300 000	230 000	230 000	230 000	230 000	2n
Finland	46 233	38 026	18 549	14 926	17 469	1e
France	550 000	550 000	550 000	550 000	550 000	2n
Germany	5 846 646	4 649 326	5 319 218	5 300 000	5 300 000	2n
Guatemala	10 410	10 340	30 428	29 145	30 257	1a
India	3 168 369	3 343 773	6 434 788	4 270 245	4 300 000	2n
Indonesia	1 474 100	1 204 900	1 353 300	2 601 000	2 000 000	2n
Iran	1 128 569	1 003 354	1 120 449	1 128 585	1 320 452	1a
Italy	2 185 000	2 200 000	2 200 000	2 200 000	2 200 000	2n
Japan	105 000	105 000	105 000	105 000	105 000	2n
Korea, South	528 958	601 030	654 398	717 177	617 567	1e
Malaysia	378 446	442 980	441 856	411 204	412 000	2n
Mexico	150 726	159 372	318 169	500 692	907 755	1a
Morocco	45 000	32 000	33 600	101 064	101 000	2n
Nigeria	60 580	25 280	34 144	27 660	41 355	1e
North Macedonia	18 076	20 289	19 919	21 237	30 813	1e
Norway	1 278	76	0	0	0	2n
Pakistan	92 672	38 568	316 289	273 468	151 743	1e
Peru	18 019	16 979	16 630	14 930	31 588	1e
Philippines	34 232	38 067	46 630	47 000	47 000	2n
Poland	68 910	76 540	88 140	91 200	71 480	1a
Portugal	70 865	93 789	132 105	126 211	130 475	1a
Romania	7 570	13 244	4 501	5 000	20 000	2n
Russia	208 000	205 000	278 100	293 300	281 300	1e

Saudi Arabia	168 000	179 000	188 000	197 000	175 594	1a
Slovakia	6 500	4 100	8 400	15 800	16 800	1e
South Africa	102 541	130 184	127 872	116 705	76 803	1e
Spain	533 328	558 273	634 519	819 218	800 000	2n
Sri Lanka	95 000	95 000	96 000	96 000	70 000	2n
Sudan	50 680	28 238	49 000	29 000	36 000	1e
Sweden	27 000	29 000	22 000	22 000	28 000	1a
Thailand	1 413 428	1 331 916	1 167 147	1 385 925	1 117 803	1e
Turkey	7 960 844	10 422 766	9 475 819	10 273 573	11 474 040	1e
Ukraine	94 506	44 460	33 627	35 000	50 000	2n
United States	530 000	520 000	470 000	440 000	550 000	1e
Uruguay	300	200	460	370	380	1e
Venezuela	93 934	75 527	58 000	30 340	30 000	2n
<b>Total</b>	<b>31 454 109</b>	<b>32 603 826</b>	<b>35 934 427</b>	<b>36 299 415</b>	<b>37 091 566</b>	

## Fluorspar

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Afghanistan	4 108	5 500	7 624	7 522	10 000	2n
Argentina	39 433	65 282	14 222	13 696	7 924	1e
Brazil	23 849	27 351	18 260	19 000	15 000	2n
Bulgaria	130 800	131 900	4 400	0	0	2n
China	3 800 000	4 400 000	3 800 000	3 800 000	3 500 000	1e
Colombia	10	47	75	57	46	1e
Egypt	900	1 105	1 000	1 000	1 000	2n
Germany	58 100	57 741	52 552	45 375	49 197	1e
India	2 947	2 333	1 175	1 313	650	3e
Iran	78 736	39 286	70 820	55 297	55 000	2n
Kenya	97 156	70 096	42 656	6 945	0	1e
Korea, North	5 000	4 000	4 525	6 900	6 900	2n
Mexico	1 109 721	624 574	659 776	741 678	1 959 089	1a
Mongolia	313 300	280 300	248 900	319 330	555 230	1e
Morocco	79 840	80 890	73 920	75 509	76 000	2n
Namibia	99 984	0	0	0	0	1e
Pakistan	7 500	5 960	9 494	2 263	2 777	1e
Russia	8 200	1 000	3 000	2 700	6 000	1e
South Africa	164 054	121 316	177 000	218 399	230 000	2n
Spain	120 582	130 647	130 131	125 870	110 000	2n
Thailand	4 590	15 095	20 100	5 500	16 700	1e
Turkey	4 271	6 238	10 339	20 150	6 200	1e
United Kingdom	25 000	17 000	12 000	11 000	11 000	2n
Vietnam	95 494	214 000	218 878	234 905	238 700	1n
<b>Total</b>	<b>6 273 575</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 714 409</b>	<b>6 857 413</b>	

## Graphite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	900	900	0	0	0	1e
Austria	150	150	150	150	150	2n
Brazil	87 026	81 762	61 687	95 000	96 800	1e

Canada	30 000	30 000	21 000	14 000	11 000	1e
China	780 000	780 000	780 000	625 000	630 000	1e
Germany	517	398	502	422	222	1e
India	116 712	135 528	122 437	33 558	38 900	3e
Korea, North	30 000	40 000	47 000	50 000	45 000	3e
Korea, South	0	62	0	0	670	1e
Madagascar	5 316	8 100	9 230	13 300	47 900	1e
Mexico	9 160	6 524	14 200	10 310	4 198	1a
Mozambique			0	802	104 000	1n
Namibia			0	2 216	3 456	1e
Norway	8 308	9 185	9 600	9 600	10 000	2n
Russia	15 000	15 900	19 400	25 400	19 200	1e
Sri Lanka	3 819	4 212	3 860	3 800	3 800	2n
Sweden		295	0	0	0	1a
Turkey	3 850	0	0	4 000	16 752	1e
Ukraine	8 000	10 000	12 000	13 000	15 000	2n
Zimbabwe	6 853	6 362	5 622	1 577	0	1e
Total	1 105 611	1 129 378	1 106 688	902 135	1 047 048	

## Gypsum and Anhydrite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Afghanistan	57 000	57 000	57 000	40 000	36 161	1e
Albania	108 733	86 163	131 924	104 120	102 016	1e
Algeria	2 130 459	2 207 000	2 200 000	2 200 000	2 200 000	2n
Angola	328 130	127 910	0	32 000	32 000	2n
Argentina	1 560 960	1 314 655	1 558 390	1 275 608	897 217	1e
Armenia	22 317	19 400	14 831	14 336	20 387	1e
Australia	3 672 100	3 715 200	3 664 700	3 381 670	4 343 922	1e
Austria	729 892	715 195	674 346	712 469	836 862	1e
Azerbaijan	222 700	196 500	155 800	85 100	9 145	1e
Bhutan	414 148	389 365	317 597	328 128	461 128	1e
Bolivia	1 464	650	1 182	473	1 136	1e
Bosnia-Herzegovina	88 977	58 800	61 231	99 001	122 421	1e
Brazil	3 471 328	3 161 856	2 674 154	2 113 208	2 115 000	2n
Bulgaria	87 800	108 600	60 900	88 000	88 000	2n
Canada	1 792 709	1 726 216	1 678 573	3 001 390	3 240 000	1e
Chile	843 490	860 075	934 033	1 157 466	909 191	1e
China	19 970 000	20 000 000	25 400 000	25 000 000	25 000 000	1e
Colombia	368 939	448 543	471 306	405 802	393 496	1e
Croatia	164 464	126 470	150 430	147 934	211 894	1a
Cuba	97 800	90 900	73 900	85 400	99 900	1e
Cyprus	347 600	471 885	682 024	647 108	625 721	1a
Czech Republic	11 000	11 000	10 000	7 000	8 000	1a
Dominican Republic	423 350	470 780	284 170	158 020	86 660	1a
Egypt	872 141	744 160	686 610	650 000	650 000	2n
Eritrea	1 000	1 000	1 000	1 000	1 000	2n
Ethiopia	43 000	116 000	80 556	85 236	253 165	1a
France	3 279 000	2 027 360	4 182 614	3 013 543	5 314 983	1e
Germany	2 699 775	2 574 312	3 970 000	4 450 000	4 550 000	1e
Greece	664 288	649 280	777 990	547 140	827 298	1a
Guatemala	81 805	111 351	130 617	135 154	132 897	1a
Honduras	2 598	2 600	5 000	5 000	5 000	2n
India	2 768 313	2 138 814	1 816 981	2 048 127	2 000 000	2n
Indonesia	8 000	8 000	8 000	8 000	8 000	2n
Iran	19 550 120	17 793 500	15 715 011	13 942 092	10 904 289	1a

Iraq	1 200 000	1 000 000	1 000 000	1 000 000	1 000 000	2n
Ireland	300 000	250 000	250 000	200 000	200 000	1e
Israel	82 000	159 300	147 000	116 000	120 000	2n
Italy	5 886 650	571 730	617 188	469 044	188 618	1e
Jamaica	45 200	43 000	50 000	46 000	47 000	1e
Jordan	275 000	275 000	81 000	80 000	80 000	2n
Kazakhstan	113 400	82 300	137 400	133 200	121 400	1e
Kenya	5 900	5 800	5 760	5 700	5 700	2n
Kyrgyzstan	112 000	60 617	98 000	100 000	100 000	2n
Laos	584 338	989 516	469 436	463 039	618 783	1e
Latvia	270 120	225 370	224 000	278 260	320 080	1e
Libya	150 000	150 000	150 000	150 000	150 000	2n
Mauritania	30 000	70 000	60 000	80 000	130 000	2n
Mexico	7 043 563	7 101 612	7 697 838	9 197 520	11 202 793	1a
Moldova	172 300	194 900	204 400	358 500	352 500	1a
Myanmar	70 196	94 395	245 789	361 015	309 343	1e
Nicaragua	57 390	50 374	41 750	66 740	70 341	1a
Nigeria	31 791	34 621	28 000	39 939	39 052	1e
North Macedonia	156 492	172 525	202 582	217 491	230 029	1e
Norway	79 740	77 403	82 386	87 891	89 655	1e
Oman	3 387 300	6 251 900	7 933 617	8 438 286	9 659 683	1a
Pakistan	1 326 437	1 417 007	1 871 716	2 079 629	2 475 893	1e
Paraguay	4 500	4 500	4 500	4 500	4 500	2n
Peru	543 856	438 025	257 423	286 657	458 479	1e
Poland	1 052 470	1 018 450	1 043 000	1 108 000	1 042 000	1a
Portugal	328 730	309 966	255 026	152 059	232 921	1a
Romania	815 586	888 746	714 273	764 786	749 668	1a
Russia	4 419 000	4 223 000	4 200 000	3 750 000	5 453 400	1n
Saudi Arabia	1 780 000	2 780 000	3 000 000	3 150 000	3 352 832	1a
Slovakia	67 900	65 700	52 300	45 600	55 190	1e
Somalia	1 500	0	0	0	0	2n
South Africa	376 223	231 688	262 457	320 685	324 997	1e
Spain	6 925 120	7 403 767	8 936 364	9 545 228	9 500 000	2n
Sudan	111 271	241 360	349 236	333 000	226 000	1e
Switzerland	340 000	320 000	340 000	340 000	340 000	2n
Syria	200 000	230 000	101 000	66 000	66 000	2n
Tajikistan	12 455	8 339	8 750	43 066	9 639	1e
Tanzania	200 179	239 302	213 744	123 645	241 260	1e
Thailand	13 421 918	12 143 168	11 746 811	10 646 644	11 197 657	1e
Tunisia	771 652	690 000	650 000	800 000	1 000 000	3e
Turkey	9 051 158	8 638 715	10 124 221	10 223 112	10 896 476	1e
Ukraine	1 525 300	1 254 900	1 303 000	1 528 900	1 386 400	1e
United Kingdom	1 200 000	1 800 000	1 600 000	1 300 000	1 300 000	2n
United States	18 300 000	18 800 000	19 800 000	20 700 000	21 100 000	1e
Yemen	100 000	100 000	100 000	50 000	50 000	2n
Total	149 814 035	143 637 536	155 290 837	155 219 661	162 985 178	

## Kaolin

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	181 068	51 000	96 000	100 000	100 000	2n
Argentina	45 892	62 214	26 198	19 940	17 000	1e
Australia	169 904	153 365	222 229	192 150	173 738	1e
Austria	14 343	12 894	13 558	13 500	13 500	2n
Bosnia-Herzegovina	98 325	252 268	271 502	252 959	303 626	1e
Brazil	2 055 000	1 809 000	1 737 000	1 771 000	1 550 000	3e



Bulgaria	321 700	314 900	338 600	322 800	323 000	2n
Chile	60 000	60 000	60 000	60 000	88 262	1e
China	6 850 000	7 030 000	7 240 000	7 430 000	7 500 000	1e
Cuba	1 700	1 500	2 500	1 500	2 700	1e
Czech Republic	3 281 000	3 454 000	3 540 000	3 669 000	3 622 000	1a
Ecuador	40 236	64 486	4 110	548	0	1e
Egypt	300 000	232 351	230 000	230 000	230 000	2n
Eritrea	200	200	200	200	200	2n
Ethiopia	4 530	4 600	4 600	5 000	10 000	1a
France	310 000	275 150	263 993	279 120	301 842	1e
Germany	4 275 422	3 733 714	4 740 000	5 168 000	4 930 000	1e
Guatemala	1 285	1 101	793	657	724	1a
India	3 861 380	4 770 000	4 110 000	4 100 000	4 000 000	2b
Indonesia	753 000	681 100	728 000	736 600	750 000	2n
Iran	820 067	791 193	868 179	861 938	1 158 983	1a
Italy	384 891	305 327	408 810	568 738	977 671	1e
Japan	13 000	12 000	12 000	12 000	12 000	2n
Jordan	100 000	60 000	11 935	11 000	11 000	2n
Kenya	1 100	1 100	1 000	1 000	1 000	2n
Korea, South	429 081	356 866	366 511	416 648	364 249	1e
Kyrgyzstan	9 419	0	0	40 000	40 000	2n
Malaysia	219 652	294 693	392 933	444 559	312 616	1e
Mexico	546 437	366 049	452 070	325 864	898 246	1a
New Zealand	61 382	13 659	61 650	50 424	51 369	1e
Nigeria	19 200	20 000	24 104	46 935	11 707	1e
Oman	66 600	169 500	188 300	218 600	110 300	1a
Pakistan	16 191	18 956	21 683	28 670	19 563	1e
Paraguay	10 000	6 000	6 000	6 000	6 000	2n
Peru	19 964	43 251	19 098	17 700	16 004	1e
Philippines	7 050	8 179	10 059	10 000	10 000	2n
Poland	277 900	286 650	299 830	284 650	310 850	1a
Portugal	264 872	251 582	283 571	307 982	300 265	1a
Romania	30 638	31 000	31 000	31 000	7 220	1a
Russia	787 000	786 000	1 064 800	1 593 000	1 485 900	1e
Saudi Arabia	106 000	187 000	196 000	206 000	207 461	1a
Serbia	90 000	110 000	110 000	110 000	120 000	2n
Slovakia	5 900	5 900	11 923	21 400	34 400	1e
South Africa	27 258	20 126	21 141	31 186	23 724	1e
Spain	344 414	391 960	347 258	475 074	410 000	1e
Sri Lanka	12 000	12 000	13 000	13 000	20 000	2n
Sudan	50 000	14 490	6 500	5 446	11 000	1e
Taiwan	1 808	732	4 035	1 665	20	1e
Tanzania	3 809	1 953	656	13 816	129 383	1e
Thailand	123 621	102 763	101 618	103 079	110 437	1e
Turkey	2 032 103	1 887 302	1 283 260	1 362 799	1 515 609	1e
Uganda	46 286	40 774	45 909	55 317	17 281	1e
Ukraine	1 426 447	1 814 786	2 335 004	2 379 636	2 091 525	1e
United Kingdom	1 090 000	1 014 000	940 000	970 000	970 000	2n
United States	5 960 000	5 810 000	5 290 000	5 560 000	5 530 000	1e
Uzbekistan	64 605	196 350	323 680	269 906	291 814	1e
Vietnam	100 000	100 000	100 000	100 000	100 000	2n
Total	38 193 680	38 495 984	39 282 800	41 308 006	41 604 189	

## Magnesite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	590 955	663 212	469 455	210 844	263 446	1e
Austria	754 096	702 504	645 593	730 482	808 239	1e
Bosnia-Herzegovina	0	200	7 300	8 500	5 950	1e
Brazil	1 423 210	1 621 425	1 652 424	1 600 000	1 900 000	1e
Canada	150 000	150 000	150 000	150 000	150 000	2n
China	18 430 000	17 440 000	16 840 000	18 500 000	19 000 000	1e
Colombia	3 500	2 883	1 175	1 883	1 039	1e
Finland	12 276	22 390	54 227	63 850	49 601	1e
Greece	360 268	383 230	397 940	442 680	425 882	1a
Guatemala	24 268	25 000	23 954	16 298	4 745	1a
India	285 009	327 663	299 149	195 033	148 280	1e
Iran	165 886	165 073	145 223	166 636	137 445	1a
Korea, North	180 200	149 599	160 935	172 488	172 500	3e
Mexico	100 000	101 000	101 000	101 000	101 000	1a
Nepal	225	60	0	0	0	1e
Pakistan	3 770	4 581	35 228	19 656	23 596	1e
Philippines	6 200	7 158	10 310	10 000	10 000	2n
Poland	92 000	96 000	77 920	101 920	102 110	1a
Russia	1 969 800	1 709 100	1 188 900	1 397 000	1 571 400	1n
Saudi Arabia	71 000	77 000	100 000	104 132	155 000	1a
Slovakia	887 500	878 400	683 400	975 100	1 053 900	1e
South Africa	10 000	10 200	8 800	8 700	8 500	2n
Spain	679 348	464 691	583 698	788 991	750 000	2n
Turkey	2 377 157	3 335 258	3 258 445	1 694 071	1 958 847	1e
Total	28 576 668	28 336 627	26 895 076	27 459 264	28 801 480	

## Perlite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	22 680	23 282	17 905	19 924	18 794	1e
Armenia	84 904	57 657	44 820	14 036	51 222	1e
Australia	0	0	620	275	2 285	1e
Chile	800	3 000	5 500	4 210	5 020	1e
Greece	985 328	890 670	921 410	932 950	790 412	1a
Hungary	32 750	31 275	31 000	34 628	35 000	2n
Iran	42 646	63 030	17 083	23 837	71 579	1a
Mexico	26 000	13 000	28 431	15 899	26 400	1a
Philippines	17 134	35 675	38 745	39 000	39 000	2n
Russia	45 000	45 000	45 000	45 000	45 000	2n
Slovakia	17 000	25 000	19 000	48 010	35 600	1e
South Africa	1 000	1 000	1 000	1 000	1 000	2n
Thailand	54 100	17 200	15 690	5 800	5 600	1e
Turkey	897 125	843 242	1 066 251	606 231	1 088 983	1e
United States	462 000	501 000	521 000	570 000	510 000	2e
Total	2 688 467	2 550 031	2 773 455	2 360 800	2 725 895	

## Phosphates (P<sub>2</sub>O<sub>5</sub>-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	482 100	438 200	433 200	378 100	409 400	1e
Australia	448 500	236 375	238 494	216 670	195 720	1e
Brazil	2 521 000	2 167 000	2 046 000	1 870 000	1 785 000	1e
Chile	6 400	5 470	1 740	1 190	1 160	1e
China	36 131 400	42 611 700	43 319 400	36 939 600	28 897 800	1e
Christmas Island	154 330	177 100	148 120	147 890	127 730	1e
Colombia	10 420	23 900	21 030	13 850	12 260	1e
Egypt	1 400 970	993 830	741 240	1 276 000	1 300 000	2n
Finland	340 640	344 360	338 230	352 300	356 070	1e
India	363 060	368 350	288 830	386 910	311 420	3e
Iran	36 527	65 342	77 912	88 715	105 840	1a
Iraq	25 000	0	40 000	40 000	377 120	1e
Israel	1 040 700	1 192 900	1 223 600	1 032 900	1 100 500	1n
Jordan	2 285 990	2 667 520	2 557 170	2 780 030	2 567 170	1n
Kazakhstan	349 500	387 100	348 600	368 400	381 200	1e
Korea, North	95 000	95 000	95 000	95 000	95 000	2n
Malawi	1 900	2 110	430	170	270	1e
Mexico	520 040	578 830	988 280	692 150	248 950	1a
Morocco	8 748 400	8 388 700	8 601 000	10 490 100	10 960 200	1e
Nauru	58 000	45 700	39 800	50 900	23 000	1e
Pakistan	18 350	15 230	20 730	11 100	0	1e
Peru	4 136 020	4 241 420	4 013 220	3 211 140	3 917 140	1e
Philippines	4 340	5 930	8 690	8 600	8 600	2n
Russia	4 173 000	4 485 000	4 797 000	5 148 000	5 304 000	1e
Saudi Arabia	382 200	1 530 000	1 620 000	1 701 000	1 827 000	1e
Senegal	309 820	589 110	886 500	841 020	775 410	1e
South Africa	703 900	648 300	593 800	727 800	720 400	1e
Sri Lanka	21 910	18 380	13 600	14 850	16 760	1e
Syria	370 000	179 100	0	38 700	38 700	2n
Tanzania	162 360	49 020	5 200	300	0	1e
Thailand	500	0	0	2 400	0	1e
Togo	394 600	418 100	306 600	266 260	370 810	1e
Tunisia	1 097 400	936 200	1 062 400	1 145 300	812 800	1e
Turkey	181 200	214 000	231 800	0	0	1a
United States	7 110 000	7 710 000	7 615 000	7 840 000	7 250 000	1e
Uzbekistan	136 510	166 800	170 000	170 000	170 000	2n
Venezuela	10 030	7 370	42 900	19 320	16 800	3e
Vietnam	741 270	877 020	942 750	1 376 400	1 627 110	3e
Total	74 973 287	82 880 467	83 878 266	79 743 065	72 111 340	

## Potash (K<sub>2</sub>O-Content)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Belarus	6 340 000	6 467 900	6 180 100	7 101 800	7 346 096	1a
Brazil	311 021	304 018	316 429	306 296	201 181	1e
Canada	10 817 955	11 461 530	10 789 662	12 562 695	14 024 000	1e
Chile	1 167 980	1 179 560	1 303 840	1 238 630	991 180	1e
China	4 400 000	5 714 000	5 783 000	5 534 000	5 452 000	1e
Germany	3 177 141	3 109 903	2 750 841	2 963 561	2 754 085	1e
Iran	449 700	632 100	929 400	804 900	942 800	1a
Israel	1 854 600	1 297 000	2 093 100	2 126 700	2 149 300	1n

Jordan	1 275 460	1 436 550	1 222 140	1 415 260	1 485 960	1n
Laos	189 400	255 100	198 600	307 600	343 500	1e
Russia	7 260 000	6 840 000	6 480 000	7 300 000	7 155 000	1n
Spain	706 664	667 959	672 246	557 468	610 000	2n
Turkmenistan				0	15 200	1e
United Kingdom	600 000	653 400	482 800	297 400	291 100	1n
United States	850 000	740 000	510 000	480 000	520 000	1e
Uzbekistan	96 360	103 000	83 000	85 000	92 300	1e
<b>Total</b>	<b>39 496 281</b>	<b>40 862 020</b>	<b>39 795 158</b>	<b>43 081 310</b>	<b>44 373 702</b>	

## Salt

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Afghanistan	87 014	88 183	56 928	75 579	47 944	1e
Albania	24 700	22 100	15 500	25 500	31 500	1e
Algeria	192 982	175 500	158 000	165 000	106 200	1e
Angola	45 000	47 845	93 000	101 000	110 000	1e
Argentina	1 537 605	1 400 777	1 812 285	1 929 065	1 784 020	1e
Armenia	149 398	142 605	68 435	137 236	155 393	1e
Australia	13 573 324	11 903 561	10 915 520	12 218 780	13 493 556	1e
Austria	1 154 309	974 475	1 034 003	1 156 326	1 176 807	1e
Azerbaijan	35 156	39 461	63 931	66 968	66 699	1e
Bahamas	1 495 158	970 393	308 007	349 710	854 223	1e
Bangladesh	1 627 000	1 282 000	1 620 000	1 660 000	1 490 000	1e
Belarus	1 800 000	2 050 000	2 480 000	2 629 000	2 904 097	1a
Benin	1 000	500	500	500	500	2n
Bolivia	2 419	2 216	4 534	3 358	5 373	1e
Bosnia-Herzegovina	819 327	869 750	966 177	1 029 302	1 063 458	1e
Botswana	515 311	404 295	399 837	369 613	367 988	1e
Brazil	7 501 051	7 676 015	7 510 314	7 600 000	7 600 000	2n
Bulgaria	3 300 000	3 100 000	3 300 000	3 400 000	3 400 000	2n
Cambodia	147 000	174 000	148 900	32 000	30 000	1e
Canada	14 161 562	14 286 373	10 252 161	11 423 624	10 713 000	1e
Cape Verde	1 000	1 000	1 000	1 000	1 000	2n
Chile	10 553 440	11 831 116	8 139 914	7 440 741	10 012 105	1e
China	70 497 100	66 655 400	66 201 000	66 541 700	58 361 700	1e
Colombia	445 840	417 438	564 194	501 499	391 222	1e
Croatia	0	20 670	15 629	19 006	16 453	1e
Cuba	243 300	284 900	248 000	246 300	192 700	1e
Denmark	600 000	600 000	600 000	600 000	600 000	1e
Dominican Republic	23 670	25 890	26 000	0	25 000	1a
Egypt	1 543 000	1 669 000	1 402 000	1 400 000	1 400 000	2n
El Salvador	100 000	100 000	100 000	100 000	100 000	2n
Eritrea	300 000	300 000	310 000	310 000	310 000	2n
Ethiopia	320 000	320 000	54 534	60 654	122 850	1a
France	6 932 600	6 754 200	4 266 248	4 751 174	5 385 350	1e
Germany	13 330 692	13 957 574	14 476 868	15 567 990	16 248 784	1e
Ghana	250 000	250 000	250 000	250 000	330 000	1e
Greece	146 402	121 537	158 020	166 527	163 474	1e
Honduras	54 400	45 400	59 000	59 000	63 500	1e
Iceland	5 000	5 000	5 000	5 000	5 000	2n
India	26 887 100	27 643 700	29 191 600	28 949 400	30 033 000	1e
Indonesia	1 877 170	2 186 600	141 000	1 021 321	2 719 256	1a
Iran	3 940 112	4 448 463	2 995 025	2 839 430	2 453 873	1a
Iraq	180 000	209 000	200 000	237 350	271 500	1e
Israel	459 742	333 300	389 240	514 100	400 000	2n

Italy	3 200 000	3 030 687	2 550 849	2 283 406	1 514 829	1e
Jamaica	14 169	14 379	15 354	12 565	10 000	2n
Japan	928 000	938 000	928 000	926 000	929 000	1e
Jordan	8 000	10 000	10 000	10 000	10 000	2n
Kazakhstan	596 508	608 627	730 283	803 794	885 717	1e
Kenya	18 936	21 201	23 425	43 245	12 419	1e
Korea, North	500 000	500 000	500 000	500 000	500 000	2n
Korea, South	303 510	342 844	323 470	308 844	282 590	1e
Kuwait	56 273	64 289	66 664	67 000	67 000	2n
Kyrgyzstan	5 300	4 744	7 000	6 000	6 000	2n
Laos	51 000	35 100	36 398	37 490	46 863	1e
Lebanon	15 000	15 000	3 000	3 000	3 000	2n
Libya	30 000	30 000	30 000	30 000	30 000	2n
Madagascar	80 000	80 000	80 000	80 000	80 000	2n
Malta	1 500	1 600	1 600	1 600	1 600	2n
Mauritius	3 800	1 800	500	1 000	1 000	2n
Mexico	10 520 508	9 718 027	10 443 786	9 570 779	10 852 583	1a
Mongolia	1 852	1 686	478	860	997	1e
Morocco	439 160	555 760	634 610	659 263	660 000	2n
Mozambique	24 228	12 005	10 127	21 458	27 729	1e
Myanmar	162 089	133 815	212 041	158 499	189 146	1e
Namibia	797 405	732 980	835 539	866 586	1 151 153	1e
Netherlands	6 485 000	6 742 969	6 625 418	6 935 000	6 750 546	1e
New Zealand	65 000	101 000	102 000	102 000	100 000	2n
Nicaragua	55 200	55 000	55 000	50 000	50 000	2n
Norway	4 600	7 600	10 632	10 000	56 000	1e
Oman	12 900	12 600	12 100	18 035	11 537	1a
Pakistan	2 530 507	2 404 116	3 867 325	3 806 888	3 647 584	1e
Panama	25 660	23 267	23 470	18 637	17 281	1e
Peru	1 175 157	1 471 131	1 450 415	1 481 398	1 509 564	1e
Philippines	1 050 000	1 000 000	1 238 610	1 250 000	1 250 000	2n
Poland	4 265 085	3 468 000	4 079 000	4 660 000	4 125 000	1a
Portugal	69 702	30 008	6 092	7 800	6 201	1a
Romania	2 058 292	2 180 000	2 100 000	2 340 000	2 355 000	1n
Russia	4 338 000	4 377 000	6 687 000	7 073 000	6 710 000	1e
Saudi Arabia	1 990 000	2 080 000	2 400 000	2 520 000	2 646 000	1e
Senegal	249 224	268 176	263 218	265 040	245 700	1e
Serbia	12 994	13 202	9 149	8 197	7 811	1e
Slovenia	0	2 191	2 417	2 335	2 018	1a
South Africa	493 798	517 159	473 339	492 860	478 285	1e
Spain	4 269 637	4 589 545	4 453 041	4 135 626	4 300 000	1e
Sri Lanka	102 018	29 243	106 034	74 108	68 834	1e
Sudan	37 295	20 136	223 397	235 000	267 000	1e
Switzerland	434 500	476 941	447 216	448 509	530 414	1n
Syria	30 000	0	5 000	5 000	5 000	2n
Taiwan	81 893	78 300	77 300	77 054	78 539	1e
Tajikistan	34 553	35 554	35 238	41 323	36 964	1e
Tanzania	54 757	168 900	178 200	124 500	36 600	1e
Thailand	1 381 067	1 385 911	1 390 548	1 497 223	1 487 364	1e
Tunisia	1 124 019	1 280 000	1 130 000	1 200 000	1 400 000	3e
Turkey	5 331 412	6 257 320	5 328 256	6 673 242	6 298 705	1e
Turkmenistan	91 651	100 000	100 000	100 000	100 000	2n
Ukraine	2 497 706	2 136 500	1 783 530	1 815 684	2 191 619	1e
United Kingdom	4 690 000	4 700 000	4 100 000	4 100 000	4 100 000	2n
United States	45 300 000	45 100 000	41 700 000	39 600 000	41 000 000	2e
Venezuela	610 000	642 000	640 000	600 000	600 000	1e
Vietnam	905 600	1 061 000	982 000	648 500	953 200	3e
Yemen	85 000	70 000	50 000	50 000	50 000	2n
Total	296 559 349	293 527 550	280 580 373	284 813 101	285 741 917	

## Sulfur

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Algeria	5 800	5 000	6 000	6 000	6 000	2n
Armenia	10 300	10 400	8 500	8 100	10 500	1e
Australia	900 000	900 000	900 000	900 000	900 000	2b
Austria	8 280	8 502	5 474	7 691	6 980	1e
Bahrain	133 650	140 799	134 789	144 806	139 368	1e
Brazil	540 000	530 000	530 000	530 000	530 000	1e
Bulgaria	428 100	438 500	395 500	501 000	474 100	1e
Canada	5 842 000	5 745 000	5 381 000	5 327 000	5 333 000	1e
Chile	1 842 700	1 867 100	1 870 900	1 789 000	1 738 100	1e
China	14 653 400	13 801 100	13 908 100	13 488 700	13 762 700	1e
Colombia	48 513	76 239	76 331	81 172	155 641	1e
Denmark	4 435	93 024	6 144	4 004	4 194	1e
Egypt	60 000	60 000	60 000	80 000	80 000	2n
Finland	845 000	847 000	852 700	937 000	888 300	2n
France	400 000	380 000	380 000	500 000	500 000	2n
Germany	708 146	627 797	577 684	537 882	419 597	1e
Greece	220 000	155 000	185 000	210 000	280 000	2n
India	2 564 808	2 741 100	2 960 800	3 475 200	4 295 000	3e
Indonesia	540 000	540 000	540 000	500 000	500 000	2n
Iran	2 100 000	2 200 000	2 200 000	2 200 000	2 200 000	2b
Iraq	37 000	40 000	40 000	40 000	40 000	2n
Italy	740 000	683 300	838 500	846 900	809 900	1e
Japan	3 502 600	3 420 900	3 517 800	3 372 500	3 277 400	1n
Jordan	304 800	254 900	130 000	130 000	130 000	2n
Kazakhstan	2 950 000	3 150 000	2 850 000	3 789 700	3 251 250	1n
Korea, North	42 000	20 500	10 000	10 000	10 000	2n
Korea, South	1 800 000	1 960 000	2 000 000	2 000 000	2 000 000	1e
Kuwait	823 860	753 500	750 000	556 800	671 000	1n
Libya	143 000	90 000	75 000	133 300	133 000	2n
Lithuania	76 600	84 000	94 520	93 970	93 960	1e
Mexico	992 939	858 527	673 285	551 218	442 657	1a
Norway	130 000	110 000	110 000	100 000	120 000	2n
Oman	41 950	43 295	35 560	59 140	84 990	1e
Pakistan	35 672	19 730	14 869	23 740	22 040	1e
Peru	533 800	565 500	551 100	536 200	552 800	1e
Philippines	84 800	1 026 400	1 134 400	1 056 400	1 100 000	2n
Poland	629 620	651 420	645 000	686 210	641 000	1a
Qatar	2 136 000	2 377 000	2 419 000	2 000 000	1 767 000	1n
Russia	7 300 000	6 720 000	6 960 000	7 000 000	7 170 000	1n
Saudi Arabia	4 400 000	4 900 000	5 969 900	6 564 200	6 600 000	2n
South Africa	277 018	284 381	280 830	256 700	240 077	1e
Spain	650 000	520 000	646 600	633 000	662 000	2n
Taiwan	195 280	211 219	163 768	173 963	169 698	1e
Turkey	98 800	78 600	78 000	92 500	250 000	1a
Turkmenistan	505 905	600 000	400 000	200 000	450 000	2n
Ukraine	182 000	171 700	171 300	175 900	222 200	1e
United Arab Emirates	2 300 000	4 540 000	4 800 000	4 600 000	5 300 000	3e
United Kingdom	134 000	135 000	133 000	133 000	133 000	2n
United States	9 640 000	9 540 000	9 740 000	9 640 000	9 680 000	1e
Venezuela	800 000	700 000	700 000	700 000	700 000	2b
Zambia	300 000	300 000	363 000	679 500	754 000	1n
Total	73 642 776	75 976 433	77 274 354	78 062 396	79 701 452	

## Talc

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	47 442	33 774	16 266	15 330	13 072	1e
Australia	120 000	80 000	111 000	120 000	120 000	2n
Austria	131 108	122 326	123 040	123 558	127 866	1e
Bhutan	12 601	5 807	2 261	1 293	2 042	1e
Brazil	531 938	481 687	494 157	500 000	500 000	2n
Canada	90 000	175 000	199 000	215 000	279 000	1e
China	2 200 000	2 200 000	2 000 000	1 800 000	2 000 000	1e
Colombia	562	55	103	59	0	1e
Egypt	24 360	30 000	14 300	15 000	15 000	2n
Finland	380 821	332 174	345 739	354 819	374 398	1e
France	450 000	450 000	450 000	470 000	450 000	2n
Guatemala	3 368	3 779	2 733	1 982	2 187	1a
India	1 921 087	1 094 101	1 292 893	1 652 367	1 640 000	2n
Iran	52 492	150 965	87 899	86 514	73 259	1a
Italy	165 000	165 000	165 000	165 000	165 000	2n
Japan	375 000	375 000	375 000	365 000	160 000	2b
Korea, North	50 000	50 000	40 000	40 000	40 000	2n
Korea, South	628 349	603 231	592 247	434 292	348 794	1e
Mexico	752 077	20 452	17 263	7 129	8 448	1a
Nepal	5 703	5 255	1 860	7 096	8 557	1e
Nigeria		0	667	1 897	2 668	1e
North Macedonia	483	598	729	478	559	1e
Pakistan	89 022	116 223	125 985	152 279	141 504	1e
Peru	46 706	52 990	29 379	42 123	47 309	1e
Portugal	14 942	11 204	11 699	13 600	10 144	1a
Russia	150 000	150 000	150 000	150 000	150 000	2n
Saudi Arabia	7 000	40 000	42 000	44 000	46 000	1e
Slovakia	3 300	1 400	800	14 000	43 000	1e
South Africa	27 327	21 849	23 576	58 776	102 142	1e
Spain			0	11 500	12 000	1e
Sudan	0	3 000	4 250	4 000	4 000	2n
Taiwan	133	162	250	0	17	1e
Thailand	57 308	52 268	103 926	61 436	58 676	1e
Turkey	114 414	182 362	203 214	474 482	284 216	1e
United Kingdom	4 907	5 430	2 997	3 671	3 700	2n
United States	609 987	615 000	578 000	610 000	650 000	2e
Uruguay	360	585	290	100	420	1e
<b>Total</b>	<b>9 067 797</b>	<b>7 631 677</b>	<b>7 608 523</b>	<b>8 016 781</b>	<b>7 883 978</b>	

## Vermiculite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Argentina	90	90	60	0	0	1e
Australia	0	0	0	0	0	1e
Brazil	56 444	54 250	53 330	50 050	50 000	2n
China	50 000	50 000	50 000	50 000	50 000	2n
Egypt	3 000	8 190	0	0	0	2n
India	15 327	23 279	9 042	6 055	3 150	3e
Iran	1 200	1 000	1 000	0	0	1a
Kenya	440	410	100	0	0	2n
Mexico	226	299	310	464	244	1e

Russia	21 000	21 000	20 000	14 400	25 904	1e
South Africa	143 007	138 290	166 483	166 084	141 346	1e
Turkey	716	425	1 050	1 618	18 183	1e
Uganda	2 661	1 213	3 295	4 119	10 413	1e
United States	100 000	100 000	100 000	100 000	100 000	2e
Zimbabwe	30 740	30 868	29 312	23 302	33 161	1e
<b>Total</b>	<b>424 851</b>	<b>429 314</b>	<b>433 982</b>	<b>416 092</b>	<b>432 401</b>	

## Zircon

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	752 826	687 326	600 000	570 000	618 000	1e
Brazil	23 659	22 647	21 302	22 000	22 000	2n
China	140 000	140 000	100 000	116 000	150 000	2b
India	23 659	18 437	30 351	13 951	15 000	2n
Indonesia	21 000	30 900	34 800	29 500	53 700	1n
Kenya	15 004	25 951	39 687	42 217	36 387	1n
Madagascar	27 275	11 879	15 582	25 950	22 400	1e
Malaysia	677	826	653	1 595	509	1e
Mozambique	50 800	51 800	68 200	74 000	74 700	1n
Nigeria	1 034	1 825	891	4 086	1 421	1e
Russia	7 930	8 180	7 704	7 324	7 400	1e
Senegal	9 040	45 248	52 627	81 749	93 569	1n
Sierra Leone	2 416	1 389	1 329	3 000	11 400	1n
South Africa	398 101	377 767	377 430	361 813	303 610	1n
Sri Lanka	1 335	614	7 749	8 569	785	1e
Turkey	1 100	1 500	500	1 200	1 950	1e
Ukraine	35 000	30 000	29 280	27 239	21 614	1e
United States	65 000	60 000	50 000	45 000	100 000	1e
Vietnam	15 730	8 000	9 300	5 500	10 500	1n
<b>Total</b>	<b>1 591 586</b>	<b>1 524 289</b>	<b>1 447 385</b>	<b>1 440 693</b>	<b>1 544 945</b>	

## 6.4.5 Mineral Fuels

### Steam Coal

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Afghanistan	1 517 400	1 364 800	1 698 200	2 191 400	2 444 600	1e
Argentina	173 848	48 764	40 597	37 713	0	1e
Australia	247 956 000	256 014 000	249 568 000	252 748 000	257 827 000	1p
Bangladesh	947 125	675 775	1 021 638	1 160 658	923 276	1n
Bhutan	121 891	85 164	117 783	161 527	186 824	1e
Botswana	1 711 555	2 065 778	1 870 939	2 215 782	2 482 313	1e
Brazil	4 518 466	3 644 350	3 525 735	3 325 439	3 568 760	1e
Bulgaria	0	9 600	5 900	0	0	1e
Canada	27 966 000	24 785 000	26 353 000	23 373 000	19 500 000	1p
Chile	4 168 185	3 161 726	2 525 171	2 495 390	2 294 677	1e



China	2 847 246 000	2 812 582 000	2 510 708 000	2 678 559 400	2 813 668 400	1p
Colombia	83 468 235	80 716 510	86 622 000	84 795 450	78 384 020	1e
Czech Republic	3 930 280	3 884 180	3 095 300	2 337 100	2 092 400	1a
Eswatini	177 930	141 733	158 418	202 277	144 375	1e
France	300 000	0	0	0	0	1e
Georgia	299 300	305 900	296 500	268 100	137 900	1e
Germany	3 224 800	2 626 600	1 807 100	1 483 200	1 260 000	1e
India	551 733 000	578 343 000	596 207 000	635 252 000	687 586 000	1e
Indonesia	487 291 000	452 542 000	460 137 000	461 248 184	557 772 940	1e
Iran	166 000	109 000	121 000	138 000	400 000	1a
Italy	86 000	73 000	59 000	47 000	0	1e
Kazakhstan	89 185 000	84 773 000	81 856 000	90 910 400	101 085 800	1e
Korea, North	27 090 000	27 490 000	32 827 000	22 271 000	16 899 000	1e
Korea, South	1 748 000	1 764 050	1 727 046	1 485 582	1 201 920	1e
Kyrgyzstan	291 700	345 000	248 000	246 500	274 800	1e
Laos	105 564	106 028	138 809	133 284	142 994	1e
Malawi	63 673	58 774	43 338	45 230	49 753	1e
Malaysia	2 687 764	2 559 444	2 414 764	2 988 211	2 652 814	1e
Mexico	13 453 540	7 492 620	8 173 505	7 528 900	6 772 528	1e
Mongolia	14 126 000	3 882 000	5 496 000	6 286 990	10 628 200	1p
Mozambique	2 546 586	1 813 717	2 214 199	4 391 833	6 891 201	1e
Myanmar	642 000	697 000	317 000	646 900	316 000	1p
Nepal	8 151	6 754	2 900	10 237	11 522	1e
New Zealand	1 900 000	1 732 000	1 386 000	1 426 000	1 689 400	1p
Niger	255 936	221 024	246 631	233 792	221 580	1e
Nigeria	127 467	144 880	989 155	397 214	352 679	1e
Norway	1 701 077	1 203 382	960 341	134 433	154 200	1n
Pakistan	3 340 192	3 407 659	3 749 312	3 953 992	4 477 555	1e
Peru	229 213	251 788	268 883	301 446	218 787	1e
Philippines	8 420 000	8 170 000	11 211 000	11 932 000	13 055 840	1e
Poland	60 252 000	59 191 000	57 181 000	52 999 000	42 757 000	1a
Romania	80 000	10 000	0	0	0	1e
Russia	211 800 000	215 500 000	226 526 100	246 751 300	260 554 200	1e
South Africa	257 016 000	252 177 000	251 567 000	253 096 500	254 236 000	1p
Spain	2 607 182	1 557 251	1 101 907	1 161 748	645 612	1e
Tajikistan	878 131	1 042 491	1 361 575	1 760 090	1 907 055	1e
Tanzania	246 128	257 321	276 030	558 553	627 652	1e
Turkey	1 803 000	1 525 000	2 070 000	1 875 000	1 856 000	1p
Ukraine	33 634 000	23 852 700	25 121 500	18 932 900	21 648 100	1e
United Kingdom	11 549 000	8 526 000	4 124 800	3 002 400	2 547 930	1e
United States	760 930 000	689 985 000	543 539 000	573 009 000	561 096 000	1p
Uzbekistan	407 249	412 000	160 000	160 000	160 000	1e
Venezuela	800 640	801 697	749 000	770 000	750 000	1e
Vietnam	41 086 000	41 664 000	38 735 000	38 409 000	42 047 000	3e
Zambia	159 151	103 439	126 050	208 608	344 717	1e
Zimbabwe	5 335 000	3 878 000	1 175 000	2 445 500	2 835 500	1e
Total	5 823 508 359	5 669 780 899	5 254 022 126	5 502 503 163	5 791 782 824	

## Coking Coal

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	180 295 000	191 056 000	189 302 000	190 000 000	179 350 000	1p
Canada	32 500 000	27 341 000	25 016 000	28 127 000	27 361 000	1p
China	619 764 000	593 047 000	547 017 000	515 107 300	523 713 600	1p
Colombia	5 104 123	4 823 870	4 438 000	6 078 000	5 899 870	1e
Czech Republic	4 410 720	3 755 820	2 978 700	2 532 900	2 017 600	1a

Germany	4 415 100	3 596 100	2 041 900	2 185 300	1 323 600	1e
India	57 446 000	60 887 000	61 661 000	40 148 000	41 132 000	1e
Indonesia	3 300 000	2 230 000	3 340 000	4 300 000	5 578 000	1p
Iran	909 000	1 097 000	1 214 000	1 383 000	1 650 000	1a
Kazakhstan	17 906 000	17 020 000	15 468 000	15 749 700	10 836 000	1e
Mexico	2 561 600	2 439 408	5 551 135	4 566 000	4 735 000	1p
Mongolia	6 165 000	12 613 000	19 998 000	25 672 000	27 417 000	1p
Mozambique	3 784 603	4 786 612	3 972 122	7 385 930	8 355 292	1e
New Zealand	1 760 000	1 333 000	1 171 000	1 173 100	1 213 400	1p
Poland	12 288 000	12 985 000	13 204 000	12 380 000	17 890 000	1a
Russia	76 300 000	82 900 000	83 800 000	86 200 000	91 600 000	1e
South Africa	3 524 000	3 248 000	3 742 000	3 704 000	4 430 000	1p
Turkey	861 000	767 000	695 000	764 000	731 000	1p
Ukraine	12 297 000	6 063 900	6 508 800	5 233 900	4 606 300	1e
United Kingdom	99 000	72 000	53 000	38 660	32 950	1e
United States	72 717 000	57 521 000	50 136 000	65 467 000	71 947 000	1p
Zimbabwe	448 000	458 000	461 000	483 000	512 000	1p
Total	1 118 855 146	1 090 040 710	1 041 768 657	1 018 678 790	1 032 331 612	

## Lignite

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Albania	0	276 000	16 800	138 800	295 800	1e
Australia	60 700 000	65 361 000	61 473 000	56 719 000	45 956 000	1p
Bosnia-Herzegovina	11 750 901	12 172 292	13 481 012	14 033 504	14 378 767	1e
Brazil	3 417 779	2 709 305	3 480 217	1 488 084	1 422 500	1e
Bulgaria	31 435 100	35 938 100	31 434 200	34 587 500	31 813 678	1e
Canada	8 570 000	10 259 000	9 962 000	9 366 000	7 739 000	1p
Czech Republic	38 348 000	38 251 000	38 646 000	39 310 000	39 187 000	1a
Germany	178 155 000	178 065 000	171 552 350	171 285 700	166 258 000	1e
Greece	50 800 000	46 308 120	32 674 790	37 802 600	36 574 360	1a
Hungary	9 553 700	9 263 180	9 232 810	7 973 341	7 896 606	1e
India	48 270 000	43 842 000	45 230 000	46 644 000	44 283 000	1e
Kazakhstan	6 894 000	5 526 000	5 750 000	5 739 000	6 560 700	1e
Kosovo	7 204 211	8 240 994	8 800 848	7 574 697	7 169 767	1e
Kyrgyzstan	1 505 000	1 584 000	1 603 000	1 628 900	2 031 600	1e
Laos	26 320	4 464 068	13 097 121	13 439 492	15 903 277	1e
Mongolia	6 073 000	5 755 000	6 672 000	6 783 000	6 952 800	1p
Montenegro	1 655 045	1 772 900	1 397 500	1 474 800	1 595 900	1e
Myanmar	50 000	54 000	233 000	90 000	233 000	1p
New Zealand	316 692	324 086	313 035	319 487	307 378	1e
North Macedonia	6 482 070	5 936 597	5 130 055	5 056 918	4 946 486	1e
Poland	64 002 000	63 135 000	60 273 000	63 060 000	61 144 000	1e
Romania	23 565 000	25 492 000	22 980 000	25 752 300	23 647 150	1e
Russia	68 900 000	73 600 000	73 500 000	74 900 000	80 500 000	1e
Serbia	29 204 294	37 029 091	38 440 527	39 805 959	37 652 520	1n
Slovakia	2 078 960	1 941 007	1 956 510	1 860 710	1 506 940	1e
Slovenia	3 108 203	3 168 001	3 348 889	3 355 664	3 216 735	1a
Spain	1 230 444	1 723 731	730 470	1 833 357	1 727 513	1e
Thailand	17 981 722	15 150 549	16 978 601	16 258 637	14 851 950	1e
Turkey	61 500 000	56 349 700	71 691 000	72 864 000	86 668 000	1p
United States	72 110 700	64 281 500	64 692 400	61 394 500	51 744 500	1e
Uzbekistan	3 989 586	3 988 000	3 717 400	3 878 670	4 014 400	1e
Total	818 877 727	821 961 221	818 488 535	826 418 620	808 179 327	

## Natural Gas

Country	2014 Mio m <sup>3</sup>	2015 Mio m <sup>3</sup>	2016 Mio m <sup>3</sup>	2017 Mio m <sup>3</sup>	2018 Mio m <sup>3</sup>	Rem
Afghanistan	142	146	165	156	153	1e
Albania	31	34	88	91	82	1e
Algeria	83 296	84 583	94 953	96 599	97 467	1e
Angola	720	770	1 710	5 800	6 190	1p
Argentina	37 830	39 190	40 760	39 740	40 930	1e
Australia	67 335	76 791	97 328	113 805	130 987	1e
Austria	1 245	1 183	1 253	1 742	969	1e
Azerbaijan	18 827	19 236	18 718	18 186	19 207	1e
Bahrain	15 400	15 350	15 200	15 230	15 420	1e
Bangladesh	23 223	25 264	27 558	27 450	27 430	1n
Barbados	21	20	17	15	14	1e
Belarus	222	225	215	205	211	1a
Bolivia	22 385	21 994	21 280	20 680	19 341	1e
Brazil	24 536	24 862	25 337	28 663	26 687	1e
Brunei	11 852	11 259	10 860	11 895	11 485	1p
Bulgaria	183	85	80	65	22	1e
Cameroon	310	370	360	390	1 460	1e
Canada	153 298	156 410	158 450	160 883	168 888	1e
Chile	907	1 064	1 175	1 200	1 221	1e
China	130 157	134 610	136 865	148 035	160 265	1e
Colombia	12 830	11 860	11 080	10 915	11 590	1e
Congo, Rep.	928	928	866	860	867	1e
Cote d'Ivoire	2 109	2 177	2 395	2 130	1 935	1e
Croatia	1 824	1 781	1 647	1 484	1 230	1e
Cuba	1 200	1 245	1 185	1 051	970	1e
Czech Republic	198	200	169	171	179	1a
Denmark	4 620	4 603	4 535	4 820	4 148	1e
Ecuador	578	497	528	463	349	1e
Egypt	46 960	42 590	40 250	48 810	58 560	1r
Equatorial Guinea	6 160	6 200	6 200	6 600	7 750	1e
France	20	30	40	51	70	1e
Gabon	330	466	530	491	511	1e
Georgia	10	11	7	9	10	1e
Germany	10 127	9 388	8 673	7 932	6 888	1e
Ghana	60	733	660	940	910	1e
Greece	5	4	9	8	12	1a
Hungary	1 933	1 887	1 823	1 605	1 710	1e
India	32 693	31 129	30 848	31 731	32 058	1e
Indonesia	76 110	75 740	74 670	72 270	72 570	1e
Iran	175 451	183 548	199 342	220 166	239 486	1r
Iraq	7 530	7 300	9 900	10 120	12 990	1r
Ireland	140	120	2 750	3 170	3 060	1e
Israel	6 760	7 410	8 250	9 630	10 500	1e
Italy	7 149	6 771	5 785	5 538	5 448	1e
Japan	2 822	2 734	2 754	3 008	2 707	1e
Jordan	130	122	116	102	93	1e
Kazakhstan	31 238	33 386	28 466	31 587	36 350	1e
Korea, South	308	180	148	326	293	1e
Kuwait	15 029	16 909	17 291	17 102	17 738	1e
Kyrgyzstan	34	54	30	26	27	1e
Libya	11 830	11 020	9 405	9 592	9 800	1r
Malaysia	65 441	63 425	67 557	70 290	66 735	1a
Mexico	44 360	40 310	34 350	30 470	26 870	1e
Morocco	94	87	80	81	87	1e
Mozambique	4 710	5 050	5 160	5 110	5 140	1e
Myanmar	16 770	19 560	18 980	18 660	16 040	1e
Netherlands	68 629	52 131	50 324	43 867	36 707	1e

New Zealand	4 999	4 606	4 763	4 761	4 161	1e
Nigeria	44 580	52 700	48 640	50 630	50 810	1e
Norway	108 105	117 008	116 767	124 664	122 203	1e
Oman	30 411	31 811	32 601	33 172	35 545	1e
Pakistan	42 302	41 511	41 958	41 684	41 313	1e
Papua New Guinea	1 639	2 941	3 128	3 286	2 914	1e
Peru	12 924	12 495	14 001	12 942	12 721	1e
Philippines	3 691	3 470	3 979	3 942	4 270	1e
Poland	5 258	5 214	5 073	5 009	4 926	1a
Qatar	159 994	166 785	168 918	168 311	170 934	1p
Romania	11 056	11 092	9 811	10 582	10 278	1e
Russia	629 500	621 060	606 300	680 800	711 300	1e
Saudi Arabia	102 380	104 450	110 860	115 000	118 000	1e
Senegal	35	23	21	17	11	1e
Serbia	557	573	523	489	450	1e
Slovakia	91	91	93	90	90	1e
Slovenia	3	3	5	9	18	1a
South Africa	1 061	1 312	807	737	615	1e
Spain	26	59	52	34	90	1e
Syria	4 740	4 050	3 530	3 490	3 490	1o
Taiwan	379	374	321	266	198	1e
Tajikistan	3	4	3	2	1	1e
Tanzania	958	1 053	1 368	1 344	1 675	1e
Thailand	42 096	39 793	39 037	37 417	36 454	1e
Trinidad and Tobago	42 077	39 617	32 098	34 581	37 501	1e
Tunisia	2 611	2 529	2 236	2 094	1 950	1e
Turkey	502	399	382	364	436	1e
Turkmenistan	72 739	71 900	69 400	70 600	70 000	1n
Ukraine	20 100	19 900	20 052	20 510	20 806	1e
United Arab Emirates	54 240	58 680	60 315	61 980	64 680	1r
United Kingdom	37 680	40 466	41 607	42 094	41 022	1e
United States	733 120	766 410	753 010	773 230	866 180	1e
Uzbekistan	61 740	62 196	56 136	56 417	59 842	1e
Venezuela	31 790	36 070	37 240	38 605	33 230	1r
Vietnam	10 210	10 660	10 610	9 866	10 010	3e
Yemen	8 314	2 850	500	600	600	1p
Total	3 530 951	3 589 187	3 595 320	3 771 635	3 959 541	

## Petroleum

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Albania	1 368 200	1 279 220	1 055 730	958 940	910 670	1e
Algeria	68 582 000	67 064 000	68 417 000	66 667 000	65 331 000	1e
Angola	84 104 000	89 457 000	85 152 000	78 608 000	71 347 100	1p
Argentina	26 492 600	26 508 000	25 487 500	23 879 000	24 369 900	1e
Australia	20 990 930	18 463 390	17 292 880	16 630 520	17 393 890	1e
Austria	944 832	905 931	809 189	741 890	681 842	1e
Azerbaijan	42 076 000	41 628 300	41 050 400	38 688 400	38 814 300	1e
Bahrain	2 428 600	2 518 200	2 422 200	2 202 200	2 097 000	1e
Bangladesh	321 000	417 400	559 240	592 650	589 650	1n
Barbados	31 960	34 030	31 750	32 050	29 970	1e
Belarus	1 645 000	1 645 000	1 645 000	1 650 000	1 670 000	1a
Bolivia	3 141 700	3 027 200	2 817 500	2 711 300	2 534 273	1e
Brazil	116 813 400	125 806 800	130 144 400	136 052 700	134 122 000	1e
Brunei	6 218 000	6 557 000	5 944 000	5 539 000	5 397 900	1p
Bulgaria	26 200	23 700	22 600	21 930	20 600	1e

Cameroon	3 751 100	4 770 500	4 595 300	3 781 000	3 428 100	1e
Canada	178 204 300	193 884 400	194 332 800	210 707 400	229 292 200	1e
Chad	4 980 000	5 976 000	5 478 000	5 663 200	6 347 000	1e
Chile	357 540	257 100	215 080	177 760	160 330	1e
China	211 429 000	214 555 800	199 685 200	191 506 100	189 105 600	1e
Colombia	49 308 600	50 058 800	44 226 200	42 519 290	43 088 900	1e
Congo, D.R.	1 140 580	1 124 940	1 068 970	1 027 850	1 144 760	1e
Congo, Rep.	12 483 600	12 139 600	12 838 700	13 252 670	16 740 500	1e
Cote d'Ivoire	941 400	1 464 300	2 104 100	1 696 900	1 607 400	1e
Croatia	575 960	657 550	737 100	744 500	732 100	1e
Cuba	2 905 300	2 822 000	2 619 200	2 522 200	2 500 000	2n
Czech Republic	148 000	126 000	116 000	106 000	109 000	1a
Denmark	8 131 039	7 689 812	6 924 374	6 736 967	5 665 787	1e
Ecuador	27 699 000	27 038 000	27 377 000	26 452 000	25 754 000	1e
Egypt	35 140 200	35 431 000	33 835 000	32 178 000	32 701 930	1r
Equatorial Guinea	13 212 380	12 056 260	10 161 060	8 686 440	7 884 840	1e
France	766 000	835 000	816 000	758 000	776 000	1e
Gabon	10 980 000	11 920 000	11 480 000	10 503 000	9 646 000	1e
Georgia	42 600	40 200	38 600	32 000	30 200	1e
Germany	2 429 789	2 412 643	2 355 028	2 218 406	2 066 643	1e
Ghana	5 328 400	5 351 200	4 614 000	8 379 700	8 876 500	1e
Greece	70 139	72 649	173 486	139 551	201 786	1a
Guatemala	500 400	499 800	448 100	480 000	458 800	1e
Hungary	594 000	633 072	732 702	705 274	808 000	1e
India	37 461 000	36 951 000	36 009 000	35 684 000	34 203 300	1e
Indonesia	39 269 800	39 121 400	41 488 400	39 879 800	38 441 100	1e
Iran	174 046 500	180 242 940	216 315 450	235 627 440	220 373 060	1r
Iraq	158 809 600	195 614 960	217 606 460	222 159 830	226 147 090	1r
Israel	81 960	76 170	115 040	76 290	74 475	1e
Italy	5 765 000	5 470 000	3 746 000	4 138 000	4 684 200	1e
Japan	579 700	536 700	494 000	505 400	449 000	1e
Jordan	800	500	400	300	1 000	1e
Kazakhstan	80 825 600	79 456 300	78 031 800	86 194 400	90 359 500	1e
Korea, South	26 960	15 630	14 130	29 610	25 780	1e
Kuwait	142 766 600	142 322 500	147 074 800	134 671 200	136 282 700	1e
Kyrgyzstan	81 000	173 000	148 000	173 200	200 000	1e
Libya	23 897 280	19 996 240	18 809 560	43 757 120	47 544 760	1r
Lithuania	81 920	73 540	63 470	55 830	46 030	1e
Malaysia	30 023 000	32 580 100	33 193 400	32 871 700	32 201 300	1e
Mauritania	296 000	263 700	235 600	165 600	0	1e
Mexico	136 500 500	126 917 250	120 452 130	109 117 210	101 589 830	1e
Mongolia	1 010 100	1 183 000	1 125 300	1 039 900	871 500	1e
Morocco	5 200	4 998	4 841	4 640	4 840	1e
Mozambique	40 690	63 720	65 080	55 790	56 690	1e
Myanmar	808 900	697 900	608 800	573 400	480 500	1e
Netherlands	1 943 700	1 844 700	1 273 800	1 222 000	1 129 300	1e
New Zealand	1 750 770	1 860 880	1 572 040	1 399 820	1 085 650	1e
Niger	853 400	744 600	820 300	909 200	827 300	1e
Nigeria	95 410 000	106 050 000	89 588 000	94 081 000	95 675 000	1e
Norway	86 278 400	88 924 200	91 424 500	89 849 400	84 183 200	1e
Oman	46 972 000	48 844 500	50 135 200	48 308 200	48 710 000	1e
Pakistan	4 155 885	4 627 053	4 246 335	4 329 141	4 441 610	1e
Papua New Guinea	2 395 600	2 951 500	2 907 400	2 656 600	1 898 700	1e
Peru	8 599 600	7 438 300	6 744 300	6 688 300	6 688 500	1e
Philippines	988 200	839 700	838 800	750 300	726 300	1e
Poland	918 750	898 870	957 050	939 240	937 040	1a
Qatar	79 898 000	77 328 000	79 494 000	76 063 500	76 977 200	1p
Romania	4 052 000	4 003 000	3 801 000	3 635 000	3 577 000	1e
Russia	526 650 000	533 551 300	547 306 140	546 742 200	555 833 900	1e
Saudi Arabia	543 823 580	568 034 180	586 712 210	559 319 390	578 336 010	1r
Senegal	30 100	22 900	3 320	12 960	20 300	1e
Serbia	1 310 000	1 050 000	963 532	924 351	910 712	1e

Slovakia	11 740	12 010	9 490	8 160	7 522	1e
Slovenia	461	359	379	481	769	1a
South Africa	88 803	70 978	38 796	31 145	23 770	1e
South Sudan	7 652 300	7 277 200	5 789 300	5 477 600	6 438 800	1r
Spain	305 253	229 568	139 176	118 809	86 991	1e
Sudan	3 951 500	3 914 700	4 733 100	4 119 300	3 832 800	1e
Suriname	836 100	842 950	815 700	811 600	818 400	1e
Syria	1 460 000	1 197 800	1 101 250	1 078 300	1 050 900	1r
Taiwan	7 800	7 900	7 200	4 600	4 000	1e
Tajikistan	24 508	24 630	25 134	23 482	23 939	1e
Thailand	11 592 740	12 347 720	12 858 470	11 939 690	11 361 670	1e
Trinidad and Tobago	4 046 848	3 917 069	3 570 900	3 576 540	3 165 790	1e
Tunisia	2 850 325	2 584 915	2 438 315	2 065 930	2 027 230	1e
Turkey	2 455 893	2 515 662	2 571 928	2 551 929	2 850 828	1e
Turkmenistan	11 588 800	12 723 740	11 397 000	10 950 000	10 603 000	1r
Ukraine	2 762 000	2 533 300	2 272 100	2 169 900	2 293 300	1e
United Arab Emirates	166 197 200	176 062 450	182 379 600	176 247 300	177 695 950	1r
United Kingdom	40 327 750	45 698 100	47 872 100	47 049 300	51 245 500	1e
United States	522 998 330	566 611 840	541 938 840	573 912 280	669 373 700	1r
Uzbekistan	2 961 000	2 728 100	2 615 400	2 766 600	2 890 000	1e
Venezuela	138 510 300	135 364 100	121 033 000	107 584 000	77 339 900	1r
Vietnam	17 392 000	18 746 000	17 230 000	15 518 000	13 969 000	3e
Yemen	8 578 100	2 367 000	962 000	1 021 000	1 238 000	1p
Total	4 131 311 595	4 285 705 119	4 296 012 155	4 299 586 996	4 388 772 607	

### Oil Sands (part of Petroleum)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Canada	97 843 100	118 594 300	120 572 400	133 202 900	145 081 000	1e
Venezuela	30 100 000	29 980 000	29 000 000	25 000 000	20 000 000	2n
Total	127 943 100	148 574 300	149 572 400	158 202 900	165 081 000	

### Oil Shales

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Austria	203	68	169	170	150	2n
Estonia	20 995 000	19 616 000	15 764 000	21 625 000	21 883 000	1e
France	2 000	2 000	2 000	2 000	2 000	2n
Germany	506 693	468 470	492 777	481 803	494 650	1e
Israel	395 600	420 100	423 100	449 100	414 550	1p
Total	21 899 496	20 506 638	16 682 046	22 558 073	22 794 350	

## Uranium (U<sub>3</sub>O<sub>8</sub>)

Country	2014 metr. t	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	Rem
Australia	6 014	6 668	7 352	6 302	6 924	1e
Brazil	67	51	0	0	0	1e
Canada	11 533	15 659	16 666	14 394	8 225	1e
China	1 769	1 906	1 906	2 223	2 223	1d
Czech Republic	195	158	151	66	40	1a
France	4	2	0	0	0	1d
Germany	39	0	53	40	0	1e
India	454	454	454	496	499	2d
Kazakhstan	26 920	28 072	29 113	27 500	25 595	1e
Malawi	435	0	0	0	0	1e
Namibia	3 839	3 473	4 308	4 981	6 514	1e
Niger	4 901	4 852	4 101	4 066	3 433	1e
Pakistan	53	53	53	53	53	1d
Romania	91	91	59	0	0	2d
Russia	3 526	3 602	3 543	3 440	3 424	1n
South Africa	668	528	450	304	231	1e
Ukraine	1 092	1 156	1 185	986	1 390	1e
United States	2 219	1 516	1 323	1 108	657	1e
Uzbekistan	4 010	4 100	4 090	4 000	6 100	1e
<b>Total</b>	<b>67 829</b>	<b>72 341</b>	<b>74 807</b>	<b>69 959</b>	<b>65 308</b>	

## 6.5 Share of World Mineral Production 2018, by Countries

### 6.5.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	562 136 693	37.11	37.11	1 377.07
2	( 3)	Brazil	293 110 000	19.35	56.46	374.40
3	( 2)	China	206 111 000	13.61	70.06	185.13
4	( 4)	India	123 510 200	8.15	78.22	66.48
5	( 5)	Russia	58 575 000	3.87	82.08	14.95
6	( 6)	South Africa	48 271 430	3.19	85.27	10.15
7	( 7)	Ukraine	38 751 300	2.56	87.83	6.54
8	( 8)	Canada	32 180 600	2.12	89.95	4.51
9	( 9)	United States	31 185 000	2.06	92.01	4.24
10	(10)	Iran	24 700 000	1.63	93.64	2.66
11	(11)	Sweden	18 405 000	1.21	94.86	1.48
12	(12)	Kazakhstan	12 968 800	0.86	95.71	0.73
13	(17)	Turkey	9 546 700	0.63	96.34	0.40
14	(14)	Peru	9 533 870	0.63	96.97	0.40
15	(13)	Chile	8 942 638	0.59	97.56	0.35
16	(16)	Mexico	8 412 810	0.56	98.12	0.31
17	(15)	Mauritania	6 961 700	0.46	98.58	0.21
18	(19)	Mongolia	3 486 220	0.23	98.81	0.05
19	(20)	Vietnam	3 282 600	0.22	99.03	0.05
20	(26)	Liberia	2 779 000	0.18	99.21	0.03
21	(22)	Malaysia	2 112 790	0.14	99.35	0.02
22	(23)	New Zealand	2 100 000	0.14	99.49	0.02
23	(18)	Venezuela	1 950 000	0.13	99.62	0.02
24	(25)	Norway	1 129 900	0.07	99.69	0.01
25	(27)	Austria	897 132	0.06	99.75	0.00
26	(28)	Bosnia-Herzegovina	704 050	0.05	99.80	0.00
27	(29)	Korea, North	603 000	0.04	99.84	0.00
28	(24)	Indonesia	600 000	0.04	99.88	0.00
29	(32)	Algeria	381 200	0.03	99.90	0.00
30	(31)	Egypt	270 000	0.02	99.92	0.00
31	(30)	Colombia	257 790	0.02	99.94	0.00
32	(34)	Pakistan	257 340	0.02	99.95	0.00
33	(35)	Korea, South	229 530	0.02	99.97	0.00
34	(36)	Tunisia	145 800	0.01	99.98	0.00
35	(38)	Germany	82 900	0.01	99.98	0.00
36	(37)	Laos	59 500	0.00	99.99	0.00
37	(41)	Bolivia	41 560	0.00	99.99	0.00
38	(40)	Argentina	40 560	0.00	99.99	0.00
39	(39)	Morocco	37 000	0.00	99.99	0.00
40	(33)	Saudi Arabia	27 700	0.00	100.00	0.00
41	(42)	Bhutan	24 220	0.00	100.00	0.00
42	(**)	Congo, Rep.	10 800	0.00	100.00	0.00



43	(45)	Namibia	8 730	0.00	100.00	0.00
44	(46)	Uganda	2 700	0.00	100.00	0.00
45	(44)	Guatemala	2 590	0.00	100.00	0.00
46	(47)	Uruguay	2 520	0.00	100.00	0.00
47	(43)	Malawi	1 540	0.00	100.00	0.00
48	(**)	Nigeria	700	0.00	100.00	0.00
49	(48)	Nepal	180	0.00	100.00	0.00
Total			1 514 832 293	100.00		HHI 2 050

## Chromium (Cr<sub>2</sub>O<sub>3</sub> - Content)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	7 524 700	49.21	49.21	2 421.81
2	( 2)	Kazakhstan	2 378 200	15.55	64.77	241.91
3	( 3)	India	1 751 800	11.46	76.22	131.26
4	( 4)	Turkey	1 146 600	7.50	83.72	56.23
5	( 6)	Albania	497 100	3.25	86.97	10.57
6	( 5)	Finland	492 774	3.22	90.19	10.39
7	( 7)	Zimbabwe	402 600	2.63	92.83	6.93
8	(10)	Oman	353 630	2.31	95.14	5.35
9	( 8)	Brazil	215 000	1.41	96.55	1.98
10	( 9)	Russia	202 800	1.33	97.87	1.76
11	(12)	Iran	113 410	0.74	98.61	0.55
12	(11)	Madagascar	53 500	0.35	98.96	0.12
13	(14)	Papua New Guinea	40 290	0.26	99.23	0.07
14	(13)	Pakistan	38 970	0.25	99.48	0.06
15	(18)	Philippines	18 000	0.12	99.60	0.01
16	(**)	Greece	16 650	0.11	99.71	0.01
17	(15)	Sudan	12 960	0.08	99.79	0.01
18	(17)	China	10 930	0.07	99.87	0.01
19	(16)	Cuba	10 500	0.07	99.93	0.00
20	(**)	Ethiopia	8 000	0.05	99.99	0.00
21	(19)	Afghanistan	2 000	0.01	100.00	0.00
Total			15 290 414	100.00		HHI 2 889

## Cobalt

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Congo, D.R.	111 713	71.39	71.39	5 096.51
2	( 3)	Canada	5 608	3.58	74.97	12.84
3	( 7)	Russia	5 330	3.41	78.38	11.60
4	( 4)	Cuba	5 300	3.39	81.77	11.47
5	( 6)	Australia	4 878	3.12	84.88	9.72
6	( 5)	New Caledonia	3 770	2.41	87.29	5.80
7	( 8)	Philippines	3 600	2.30	89.59	5.29
8	( 9)	Papua New Guinea	3 275	2.09	91.69	4.38
9	( 2)	China	3 100	1.98	93.67	3.92
10	(10)	Madagascar	2 887	1.84	95.51	3.40

11	(13)	Morocco	1 806	1.15	96.67	1.33
12	(11)	Zambia	1 585	1.01	97.68	1.03
13	(12)	Finland	1 377	0.88	98.56	0.77
14	(14)	South Africa	1 007	0.64	99.20	0.41
15	(15)	United States	490	0.31	99.52	0.10
16	(16)	Zimbabwe	403	0.26	99.77	0.07
17	(17)	Indonesia	350	0.22	100.00	0.05
18	(18)	Brazil	4	0.00	100.00	0.00
		Total	156 483	100.00		HHI 5 169

## Manganese

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	5 640 700	27.95	27.95	781.29
2	( 2)	Australia	3 514 320	17.41	45.37	303.27
3	( 4)	Gabon	2 982 800	14.78	60.15	218.47
4	( 6)	Ghana	1 593 110	7.89	68.04	62.32
5	( 5)	Brazil	1 350 000	6.69	74.73	44.75
6	( 3)	China	1 180 000	5.85	80.58	34.19
7	( 7)	India	924 200	4.58	85.16	20.97
8	( 9)	Malaysia	720 000	3.57	88.73	12.73
9	( 8)	Ukraine	682 700	3.38	92.11	11.44
10	(11)	Cote d'Ivoire	356 360	1.77	93.87	3.12
11	(10)	Kazakhstan	288 300	1.43	95.30	2.04
12	(12)	Mexico	209 023	1.04	96.34	1.07
13	(13)	Myanmar	207 500	1.03	97.37	1.06
14	(15)	Zambia	138 000	0.68	98.05	0.47
15	(14)	Georgia	95 000	0.47	98.52	0.22
16	(21)	Nigeria	62 220	0.31	98.83	0.10
17	(16)	Morocco	50 000	0.25	99.08	0.06
18	(17)	Iran	45 595	0.23	99.30	0.05
19	(19)	Turkey	29 900	0.15	99.45	0.02
20	(20)	Indonesia	27 000	0.13	99.59	0.02
21	(18)	Vietnam	20 000	0.10	99.69	0.01
22	(28)	Peru	17 203	0.09	99.77	0.01
23	(26)	Oman	11 170	0.06	99.83	0.00
24	(22)	Namibia	8 800	0.04	99.87	0.00
25	(**)	Congo, D.R.	7 440	0.04	99.91	0.00
26	(27)	Kenya	7 000	0.03	99.94	0.00
27	(23)	Romania	5 020	0.02	99.97	0.00
28	(24)	Sudan	4 000	0.02	99.99	0.00
29	(25)	Thailand	1 920	0.01	100.00	0.00
30	(29)	Bulgaria	1 000	0.00	100.00	0.00
		Total	20 180 281	100.00		HHI 1 498

## Molybdenum

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	98 420	36.43	36.43	1 327.29
2	( 2)	Chile	60 705	22.47	58.90	504.95
3	( 3)	United States	41 400	15.32	74.23	234.86
4	( 4)	Peru	28 034	10.38	84.61	107.69
5	( 5)	Mexico	20 265	7.50	92.11	56.27
6	( 6)	Armenia	5 422	2.01	94.11	4.03
7	( 7)	Canada	5 048	1.87	95.98	3.49
8	( 8)	Iran	3 690	1.37	97.35	1.87
9	(10)	Mongolia	2 580	0.96	98.30	0.91
10	( 9)	Russia	2 400	0.89	99.19	0.79
11	(12)	Uzbekistan	750	0.28	99.47	0.08
12	(14)	Korea, North	560	0.21	99.68	0.04
13	(11)	Turkey	450	0.17	99.84	0.03
14	(13)	Argentina	364	0.13	99.98	0.02
15	(15)	Kazakhstan	58	0.02	100.00	0.00
16	(**)	Korea, South	1	0.00	100.00	0.00
		Total	270 147	100.00		HHI 2 242

## Nickel

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Indonesia	545 000	24.16	24.16	583.47
2	( 2)	Philippines	344 915	15.29	39.44	233.70
3	( 3)	Russia	218 000	9.66	49.10	93.36
4	( 4)	New Caledonia	216 225	9.58	58.69	91.84
5	( 5)	Canada	179 990	7.98	66.67	63.64
6	( 6)	Australia	160 878	7.13	73.80	50.84
7	( 7)	China	98 963	4.39	78.18	19.24
8	( 8)	Brazil	74 400	3.30	81.48	10.87
9	(10)	Cuba	50 000	2.22	83.70	4.91
10	( 9)	Guatemala	48 400	2.15	85.84	4.60
11	(14)	Finland	43 572	1.93	87.77	3.73
12	(11)	South Africa	43 236	1.92	89.69	3.67
13	(12)	Colombia	43 056	1.91	91.60	3.64
14	(13)	Papua New Guinea	35 354	1.57	93.16	2.46
15	(15)	Madagascar	33 204	1.47	94.63	2.17
16	(18)	Greece	19 980	0.89	95.52	0.78
17	(20)	Dominican Republic	19 214	0.85	96.37	0.73
18	(19)	Zimbabwe	17 850	0.79	97.16	0.63
19	(16)	Myanmar	17 750	0.79	97.95	0.62
20	(17)	United States	17 600	0.78	98.73	0.61
21	(21)	Turkey	13 560	0.60	99.33	0.36
22	(25)	Cote d'Ivoire	5 300	0.23	99.57	0.06
23	(22)	Kosovo	4 790	0.21	99.78	0.05
24	(23)	Albania	4 050	0.18	99.96	0.03

25	(24)	Poland	660	0.03	99.99	0.00
26	(27)	Norway	170	0.01	99.99	0.00
27	(26)	Morocco	126	0.01	100.00	0.00
		Total	2 256 243	100.00		HHI 1 176

### Niobium (Nb<sub>2</sub>O<sub>5</sub>-Content)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Brazil	83 000	89.75	89.75	8 054.91
2	( 2)	Canada	7 700	8.33	98.08	69.32
3	( 4)	Russia	669	0.72	98.80	0.52
4	( 3)	Congo, D.R.	607	0.66	99.46	0.43
5	( 5)	Rwanda	255	0.28	99.73	0.08
6	( 6)	Nigeria	181	0.20	99.93	0.04
7	( 8)	Ethiopia	28	0.03	99.96	0.00
8	( 7)	China	20	0.02	99.98	0.00
9	(10)	Mozambique	10	0.01	99.99	0.00
10	( 9)	Burundi	8	0.01	100.00	0.00
11	(11)	Uganda	2	0.00	100.00	0.00
		Total	92 480	100.00		HHI 8 125

### Tantalum (Ta<sub>2</sub>O<sub>5</sub>-Content)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Congo, D.R.	644	35.80	35.80	1 281.47
2	( 3)	Rwanda	390	21.68	57.48	469.97
3	( 2)	Nigeria	230	12.78	70.26	163.45
4	( 5)	Brazil	150	8.34	78.60	69.52
5	( 6)	Ethiopia	104	5.78	84.38	33.42
6	( 4)	China	100	5.56	89.94	30.90
7	( 7)	Mozambique	54	3.00	92.94	9.01
8	( 8)	Russia	41	2.28	95.22	5.19
9	(10)	Australia	30	1.67	96.89	2.78
10	(11)	Malaysia	27	1.50	98.39	2.25
11	(12)	Bolivia	18	1.00	99.39	1.00
12	( 9)	Burundi	11	0.61	100.00	0.37
		Total	1 799	100.00		HHI 2 069

## Titanium (TiO<sub>2</sub>-Content)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	1 932 000	26.28	26.28	690.59
2	( 2)	South Africa	1 000 000	13.60	39.88	185.01
3	( 3)	Australia	875 250	11.91	51.79	141.73
4	( 4)	Canada	620 000	8.43	60.22	71.12
5	( 5)	Mozambique	535 700	7.29	67.51	53.09
6	( 6)	Ukraine	518 950	7.06	74.56	49.83
7	( 7)	Kenya	340 150	4.63	79.19	21.41
8	( 8)	Senegal	287 940	3.92	83.11	15.34
9	(10)	Madagascar	214 000	2.91	86.02	8.47
10	(12)	India	188 800	2.57	88.59	6.59
11	( 9)	Norway	176 370	2.40	90.99	5.76
12	(11)	Sierra Leone	145 400	1.98	92.96	3.91
13	(13)	Korea, South	117 250	1.59	94.56	2.54
14	(14)	Vietnam	109 100	1.48	96.04	2.20
15	(15)	United States	100 000	1.36	97.40	1.85
16	(16)	Kazakhstan	65 000	0.88	98.29	0.78
17	(17)	Brazil	38 000	0.52	98.80	0.27
18	(18)	Sri Lanka	35 670	0.49	99.29	0.24
19	(19)	Iran	30 000	0.41	99.70	0.17
20	(20)	Malaysia	12 500	0.17	99.87	0.03
21	(21)	Turkey	6 175	0.08	99.95	0.01
22	(22)	Russia	3 600	0.05	100.00	0.00
		Total	7 351 855	100.00		HHI 1 261

## Tungsten (W-Content)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	65 300	80.23	80.23	6 437.64
2	( 2)	Vietnam	4 881	6.00	86.23	35.97
3	( 3)	Russia	2 234	2.74	88.98	7.53
4	(13)	Korea, North	1 410	1.73	90.71	3.00
5	( 5)	Bolivia	1 366	1.68	92.39	2.82
6	( 7)	Rwanda	1 155	1.42	93.81	2.01
7	( 6)	Austria	936	1.15	94.96	1.32
8	( 4)	United Kingdom	890	1.09	96.05	1.20
9	( 9)	Spain	730	0.90	96.95	0.80
10	( 8)	Portugal	716	0.88	97.83	0.77
11	(10)	Mongolia	430	0.53	98.36	0.28
12	(11)	Brazil	300	0.37	98.72	0.14
13	(12)	Myanmar	300	0.37	99.09	0.14
14	(17)	Uganda	188	0.23	99.32	0.05
15	(15)	Congo, D.R.	160	0.20	99.52	0.04
16	(14)	Burundi	117	0.14	99.66	0.02
17	(16)	Uzbekistan	97	0.12	99.78	0.01
18	(19)	Nigeria	66	0.08	99.86	0.01
19	(18)	Thailand	65	0.08	99.94	0.01
20	(**)	Mexico	45	0.06	100.00	0.00
		Total	81 386	100.00		HHI 6 494

## Vanadium (V-Content)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	44 240	54.15	54.15	2 932.08
2	( 2)	Russia	17 052	20.87	75.02	435.61
3	( 3)	South Africa	14 904	18.24	93.26	332.78
4	( 4)	Brazil	5 505	6.74	100.00	45.40
		Total	81 701	100.00		HHI 3 746

## 6.5.2 Non-Ferrous Metals

### Aluminium

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	35 801 912	56.61	56.61	3 205.25
2	( 2)	Russia	3 621 000	5.73	62.34	32.79
3	( 4)	Canada	2 924 389	4.62	66.97	21.39
4	( 3)	India	2 760 000	4.36	71.33	19.05
5	( 5)	United Arab Emirates	2 640 000	4.17	75.50	17.43
6	( 6)	Australia	1 574 240	2.49	77.99	6.20
7	( 7)	Norway	1 295 000	2.05	80.04	4.19
8	( 8)	Bahrain	1 011 101	1.60	81.64	2.56
9	( 9)	Saudi Arabia	932 209	1.47	83.11	2.17
10	(13)	United States	896 652	1.42	84.53	2.01
11	(11)	Malaysia	760 000	1.20	85.73	1.44
12	(12)	Iceland	731 478	1.16	86.89	1.34
13	(14)	South Africa	714 000	1.13	88.02	1.27
14	(10)	Brazil	659 000	1.04	89.06	1.09
15	(18)	Vietnam	655 568	1.04	90.10	1.07
16	(15)	Qatar	616 000	0.97	91.07	0.95
17	(16)	Mozambique	571 125	0.90	91.98	0.82
18	(17)	Germany	528 900	0.84	92.81	0.70
19	(19)	Argentina	435 837	0.69	93.50	0.48
20	(20)	France	390 000	0.62	94.12	0.38
21	(27)	Oman	379 775	0.60	94.72	0.36
22	(21)	Spain	350 000	0.55	95.27	0.31
23	(23)	New Zealand	340 678	0.54	95.81	0.29
24	(22)	Iran	304 800	0.48	96.29	0.23
25	(24)	Romania	282 810	0.45	96.74	0.20
26	(25)	Egypt	267 100	0.42	97.16	0.18
27	(26)	Kazakhstan	258 400	0.41	97.57	0.17
28	(28)	Indonesia	242 043	0.38	97.95	0.15
29	(29)	Greece	187 465	0.30	98.25	0.09
30	(30)	Slovakia	173 721	0.27	98.53	0.08
31	(32)	Bosnia-Herzegovina	131 508	0.21	98.73	0.04
32	(33)	Sweden	125 000	0.20	98.93	0.04
33	(34)	Tajikistan	95 800	0.15	99.08	0.02
34	(41)	Netherlands	90 000	0.14	99.22	0.02
35	(37)	Cameroon	85 481	0.14	99.36	0.02

36	(36)	Turkey	83 000	0.13	99.49	0.02
37	(35)	Slovenia	80 511	0.13	99.62	0.02
38	(31)	Venezuela	64 700	0.10	99.72	0.01
39	(38)	United Kingdom	48 000	0.08	99.80	0.01
40	(42)	Azerbaijan	45 390	0.07	99.87	0.01
41	(39)	Ghana	42 867	0.07	99.94	0.00
42	(40)	Montenegro	40 163	0.06	100.00	0.00
Total			63 237 623	100.00		HHI 3 325

## Antimony

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	89 584	63.67	63.67	4 053.67
2	( 2)	Tajikistan	28 750	20.43	84.10	417.51
3	( 3)	Russia	6 735	4.79	88.89	22.91
4	( 5)	Australia	3 570	2.54	91.43	6.44
5	( 4)	Turkey	3 570	2.54	93.96	6.44
6	( 7)	Bolivia	3 110	2.21	96.17	4.89
7	( 6)	Myanmar	2 000	1.42	97.59	2.02
8	( 9)	Iran	1 645	1.17	98.76	1.37
9	( 8)	Kyrgyzstan	680	0.48	99.25	0.23
10	(11)	Laos	330	0.23	99.48	0.06
11	(13)	Mexico	300	0.21	99.69	0.05
12	(14)	Vietnam	235	0.17	99.86	0.03
13	(10)	Kazakhstan	150	0.11	99.97	0.01
14	(**)	Honduras	20	0.01	99.98	0.00
15	(15)	Pakistan	20	0.01	100.00	0.00
16	(16)	Canada	5	0.00	100.00	0.00
Total			140 704	100.00		HHI 4 516

## Arsenic

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	24 000	45.51	45.51	2 071.06
2	( 2)	Peru	20 376	38.64	84.15	1 492.82
3	( 3)	Morocco	5 578	10.58	94.72	111.87
4	( 4)	Russia	1 500	2.84	97.57	8.09
5	( 5)	Belgium	1 000	1.90	99.46	3.60
6	( 9)	Bolivia	238	0.45	99.91	0.20
7	( 8)	Japan	45	0.09	100.00	0.01
Total			52 737	100.00		HHI 3 688

## Bauxite (crude ore)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	95 947 593	28.64	28.64	820.50
2	( 2)	China	70 000 000	20.90	49.54	436.72
3	( 3)	Guinea	59 573 707	17.79	67.33	316.31
4	( 4)	Brazil	32 000 000	9.55	76.88	91.27
5	( 5)	India	23 193 680	6.92	83.80	47.95
6	(13)	Indonesia	11 023 850	3.29	87.10	10.83
7	( 6)	Jamaica	10 058 228	3.00	90.10	9.02
8	( 7)	Russia	7 057 000	2.11	92.21	4.44
9	( 8)	Kazakhstan	6 104 200	1.82	94.03	3.32
10	( 9)	Saudi Arabia	4 730 690	1.41	95.44	1.99
11	(10)	Vietnam	2 930 000	0.87	96.31	0.77
12	(12)	Sierra Leone	1 938 461	0.58	96.89	0.33
13	(17)	Guyana	1 924 558	0.57	97.47	0.33
14	(15)	Solomon Islands	1 646 200	0.49	97.96	0.24
15	(11)	Greece	1 559 359	0.47	98.43	0.22
16	(16)	Ghana	1 011 302	0.30	98.73	0.09
17	(20)	Iran	866 683	0.26	98.99	0.07
18	(21)	Bosnia-Herzegovina	760 244	0.23	99.21	0.05
19	(14)	Turkey	678 138	0.20	99.42	0.04
20	(19)	Malaysia	589 685	0.18	99.59	0.03
21	(18)	Montenegro	468 164	0.14	99.73	0.02
22	(22)	United States	399 700	0.12	99.85	0.01
23	(25)	Pakistan	146 045	0.04	99.89	0.00
24	(**)	Cote d'Ivoire	100 000	0.03	99.92	0.00
25	(23)	Venezuela	92 000	0.03	99.95	0.00
26	(26)	France	70 000	0.02	99.97	0.00
27	(24)	Fiji	57 960	0.02	99.99	0.00
28	(27)	Croatia	11 776	0.00	99.99	0.00
29	(28)	Mozambique	9 912	0.00	100.00	0.00
30	(29)	Colombia	9 043	0.00	100.00	0.00
31	(30)	Hungary	4 200	0.00	100.00	0.00
32	(31)	Tanzania	7	0.00	100.00	0.00
		Total	334 962 385	100.00		HHI 1 745

## Beryllium (concentrates)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	4 170	68.16	68.16	4 645.72
2	( 2)	China	1 250	20.43	88.59	417.45
3	( 5)	Mozambique	416	6.80	95.39	46.23
4	( 3)	Madagascar	140	2.29	97.68	5.24
5	( 4)	Brazil	70	1.14	98.82	1.31
6	(**)	Nigeria	35	0.57	99.40	0.33
7	( 6)	Rwanda	30	0.49	99.89	0.24
8	( 7)	Zambia	7	0.11	100.00	0.01
		Total	6 118	100.00		HHI 5 117



## Bismuth

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	7 000	64.21	64.21	4 123.48
2	( 2)	Vietnam	2 639	24.21	88.42	586.07
3	( 3)	Japan	571	5.24	93.66	27.44
4	( 4)	Mexico	313	2.87	96.53	8.24
5	( 5)	Kazakhstan	159	1.46	97.99	2.13
6	( 6)	Peru	145	1.33	99.32	1.77
7	( 8)	Bolivia	39	0.36	99.68	0.13
8	( 7)	Russia	30	0.28	99.95	0.08
9	( 9)	Canada	5	0.05	100.00	0.00
		Total	10 901	100.00		HHI 4 749

## Cadmium

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	8 450	34.54	34.54	1 192.95
2	( 2)	Korea, South	5 100	20.85	55.39	434.56
3	( 4)	Japan	1 980	8.09	63.48	65.50
4	( 5)	Canada	1 857	7.59	71.07	57.61
5	( 7)	Mexico	1 307	5.34	76.41	28.54
6	( 6)	Russia	927	3.79	80.20	14.36
7	( 3)	Kazakhstan	850	3.47	83.67	12.07
8	( 8)	Peru	765	3.13	86.80	9.78
9	(10)	Netherlands	600	2.45	89.25	6.01
10	( 9)	Germany	520	2.13	91.38	4.52
11	(11)	Norway	380	1.55	92.93	2.41
12	(13)	Bulgaria	313	1.28	94.21	1.64
13	(14)	Poland	305	1.25	95.46	1.55
14	(12)	United States	300	1.23	96.69	1.50
15	(17)	Brazil	300	1.23	97.91	1.50
16	(15)	Uzbekistan	237	0.97	98.88	0.94
17	(16)	Korea, North	200	0.82	99.70	0.67
18	(18)	Argentina	74	0.30	100.00	0.09
		Total	24 465	100.00		HHI 1 836

## Copper

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Chile	5 831 600	28.48	28.48	811.25
2	( 2)	Peru	2 436 951	11.90	40.38	141.67
3	( 3)	China	1 561 100	7.62	48.01	58.14
4	( 5)	Congo, D.R.	1 239 059	6.05	54.06	36.62
5	( 4)	United States	1 220 000	5.96	60.02	35.51

6	( 6)	Australia	913 336	4.46	64.48	19.90
7	( 7)	Zambia	861 946	4.21	68.69	17.72
8	( 8)	Russia	785 300	3.84	72.53	14.71
9	( 9)	Mexico	696 580	3.40	75.93	11.57
10	(10)	Indonesia	651 132	3.18	79.11	10.11
11	(12)	Kazakhstan	632 550	3.09	82.20	9.54
12	(11)	Canada	542 932	2.65	84.85	7.03
13	(13)	Poland	401 300	1.96	86.81	3.84
14	(14)	Brazil	381 000	1.86	88.67	3.46
15	(16)	Iran	316 380	1.55	90.22	2.39
16	(15)	Mongolia	309 750	1.51	91.73	2.29
17	(17)	Spain	186 500	0.91	92.64	0.83
18	(19)	Myanmar	179 310	0.88	93.52	0.77
19	(18)	Laos	154 948	0.76	94.27	0.57
20	(20)	Bulgaria	112 850	0.55	94.82	0.30
21	(22)	Sweden	106 140	0.52	95.34	0.27
22	(21)	Papua New Guinea	96 277	0.47	95.81	0.22
23	(25)	Turkey	87 000	0.42	96.24	0.18
24	(26)	Philippines	69 933	0.34	96.58	0.12
25	(24)	Armenia	68 928	0.34	96.92	0.11
26	(31)	Saudi Arabia	59 650	0.29	97.21	0.08
27	(28)	Portugal	49 064	0.24	97.45	0.06
28	(27)	South Africa	46 900	0.23	97.68	0.05
29	(29)	Finland	46 755	0.23	97.90	0.05
30	(30)	Serbia	44 096	0.22	98.12	0.05
31	(48)	Ecuador	42 200	0.21	98.33	0.04
32	(23)	Uzbekistan	38 000	0.19	98.51	0.03
33	(34)	India	35 450	0.17	98.68	0.03
34	(32)	Morocco	34 500	0.17	98.85	0.03
35	(35)	Mauritania	28 137	0.14	98.99	0.02
36	(36)	Vietnam	22 440	0.11	99.10	0.01
37	(37)	Congo, Rep.	18 018	0.09	99.19	0.01
38	(33)	Argentina	17 435	0.09	99.27	0.01
39	(50)	Eritrea	17 300	0.08	99.36	0.01
40	(41)	Georgia	15 250	0.07	99.43	0.01
41	(40)	Korea, North	15 000	0.07	99.50	0.01
42	(42)	Pakistan	12 538	0.06	99.57	0.00
43	(38)	Tanzania	10 000	0.05	99.61	0.00
44	(44)	Colombia	9 918	0.05	99.66	0.00
45	(46)	Zimbabwe	9 077	0.04	99.71	0.00
46	(43)	Dominican Republic	8 588	0.04	99.75	0.00
47	(52)	Tajikistan	8 490	0.04	99.79	0.00
48	(49)	Romania	8 165	0.04	99.83	0.00
49	(47)	Kyrgyzstan	7 944	0.04	99.87	0.00
50	(45)	North Macedonia	7 718	0.04	99.91	0.00
51	(39)	Namibia	5 900	0.03	99.94	0.00
52	(51)	Bolivia	5 216	0.03	99.96	0.00
53	(**)	Albania	3 780	0.02	99.98	0.00
54	(53)	Azerbaijan	1 650	0.01	99.99	0.00
55	(55)	Botswana	1 462	0.01	100.00	0.00
56	(54)	Cyprus	908	0.00	100.00	0.00
57	(56)	Slovakia	21	0.00	100.00	0.00
		Total	20 474 372	100.00		HHI 1 190

## Gallium

Rank 2018	Rank 2017	Co un t r y	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	305	94.43	94.43	8 916.50
2	( 2)	Ukraine	6	1.86	96.28	3.45
3	( 3)	Russia	6	1.86	98.14	3.45
4	( 4)	Korea, South	3	0.93	99.07	0.86
5	( 5)	Japan	3	0.93	100.00	0.86
		Total	323	100.00		HHI 8 925

## Germanium

Rank 2018	Rank 2017	Co un t r y	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	90	89.11	89.11	7 940.40
2	( 2)	Russia	6	5.94	95.05	35.29
3	( 3)	United States	2	1.98	97.03	3.92
4	( 4)	Japan	2	1.98	99.01	3.92
5	( 5)	Ukraine	1	0.99	100.00	0.98
		Total	101	100.00		HHI 7 985

## Indium

Rank 2018	Rank 2017	Co un t r y	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	395	47.31	47.31	2 237.80
2	( 2)	Korea, South	235	28.14	75.45	792.07
3	( 3)	Japan	70	8.38	83.83	70.28
4	( 4)	Canada	58	6.95	90.78	48.25
5	( 5)	France	43	5.15	95.93	26.52
6	( 6)	Belgium	20	2.40	98.32	5.74
7	(11)	Italy	5	0.60	98.92	0.36
8	( 8)	Peru	5	0.60	99.52	0.36
9	(10)	Russia	4	0.48	100.00	0.23
		Total	835	100.00		HHI 3 182

## Lead

Rank 2018	Rank 2017	Co untry	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 033 000	43.81	43.81	1 919.11
2	( 2)	Australia	431 552	9.30	53.11	86.48
3	( 4)	Peru	289 195	6.23	59.34	38.83
4	( 3)	United States	280 000	6.03	65.37	36.40
5	( 5)	Mexico	230 869	4.97	70.35	24.75
6	( 6)	Russia	220 000	4.74	75.09	22.47
7	( 7)	India	198 270	4.27	79.36	18.25
8	( 8)	Bolivia	112 140	2.42	81.78	5.84
9	( 9)	Kazakhstan	86 500	1.86	83.64	3.47
10	(10)	Turkey	75 990	1.64	85.28	2.68
11	(11)	Sweden	64 751	1.40	86.67	1.95
12	(12)	Tajikistan	58 560	1.26	87.93	1.59
13	(18)	Morocco	50 900	1.10	89.03	1.20
14	(14)	Iran	48 000	1.03	90.07	1.07
15	(16)	North Macedonia	42 300	0.91	90.98	0.83
16	(17)	Poland	40 210	0.87	91.84	0.75
17	(13)	South Africa	35 118	0.76	92.60	0.57
18	(19)	Korea, North	35 000	0.75	93.35	0.57
19	(15)	Argentina	28 260	0.61	93.96	0.37
20	(43)	Cuba	25 380	0.55	94.51	0.30
21	(24)	Myanmar	24 930	0.54	95.05	0.29
22	(21)	Bulgaria	24 200	0.52	95.57	0.27
23	(29)	Spain	20 150	0.43	96.00	0.19
24	(34)	Portugal	19 440	0.42	96.42	0.18
25	(20)	Nigeria	17 900	0.39	96.81	0.15
26	(23)	Ireland	16 712	0.36	97.17	0.13
27	(26)	Greece	15 345	0.33	97.50	0.11
28	(36)	Vietnam	14 500	0.31	97.81	0.10
29	(22)	Canada	14 441	0.31	98.12	0.10
30	(25)	Serbia	13 810	0.30	98.42	0.09
31	(27)	Indonesia	11 380	0.25	98.67	0.06
32	(28)	Mongolia	11 320	0.24	98.91	0.06
33	(31)	Honduras	9 893	0.21	99.12	0.05
34	(30)	Brazil	7 277	0.16	99.28	0.02
35	(32)	Bosnia-Herzegovina	7 070	0.15	99.43	0.02
36	(41)	Uzbekistan	5 000	0.11	99.54	0.01
37	(39)	Pakistan	4 820	0.10	99.64	0.01
38	(35)	Kosovo	4 700	0.10	99.74	0.01
39	(33)	Namibia	4 291	0.09	99.84	0.01
40	(40)	Montenegro	2 770	0.06	99.90	0.00
41	(38)	Korea, South	2 340	0.05	99.95	0.00
42	(44)	Romania	1 200	0.03	99.97	0.00
43	(42)	Chile	712	0.02	99.99	0.00
44	(45)	Laos	330	0.01	100.00	0.00
45	(46)	Slovakia	114	0.00	100.00	0.00
46	(47)	United Kingdom	100	0.00	100.00	0.00
		Total	4 640 740	100.00		HHI 2 169

## Lithium (Li<sub>2</sub>O-Content)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	114 920	60.58	60.58	3 669.38
2	( 2)	Chile	38 850	20.48	81.05	419.36
3	( 3)	Argentina	13 810	7.28	88.33	52.99
4	( 9)	Canada	8 750	4.61	92.95	21.27
5	( 4)	China	6 550	3.45	96.40	11.92
6	( 5)	Zimbabwe	3 160	1.67	98.06	2.77
7	( 6)	United States	1 500	0.79	98.85	0.63
8	( 7)	Portugal	914	0.48	99.34	0.23
9	(**)	Namibia	600	0.32	99.65	0.10
10	( 8)	Brazil	600	0.32	99.97	0.10
11	(**)	Nigeria	50	0.03	99.99	0.00
12	(10)	Bolivia	10	0.01	100.00	0.00
		Total	189 714	100.00		HHI 4 179

## Mercury

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 316	82.30	82.30	6 773.75
2	( 2)	Mexico	230	8.17	90.48	66.80
3	( 3)	Tajikistan	120	4.26	94.74	18.19
4	( 5)	Russia	50	1.78	96.52	3.16
5	( 4)	Argentina	50	1.78	98.29	3.16
6	( 8)	Kyrgyzstan	20	0.71	99.00	0.51
7	( 6)	United States	15	0.53	99.54	0.28
8	( 7)	Morocco	10	0.36	99.89	0.13
9	( 9)	Chile	3	0.11	100.00	0.01
		Total	2 814	100.00		HHI 6 866

## Rare Earths Concentrates (REO-Content)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	120 000	73.23	73.23	5 362.52
2	( 2)	Australia	18 556	11.32	84.55	128.23
3	(**)	United States	18 000	10.98	95.54	120.66
4	( 4)	India	2 900	1.77	97.31	3.13
5	( 3)	Russia	2 596	1.58	98.89	2.51
6	( 5)	Brazil	1 100	0.67	99.56	0.45
7	( 7)	Burundi	631	0.39	99.95	0.15
8	( 6)	Malaysia	86	0.05	100.00	0.00
		Total	163 869	100.00		HHI 5 618

## Rhenium

Rank 2018	Rank 2017	Co un try	Production 2018 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Chile	26 052	55.95	55.95	3 129.87
2	( 2)	United States	8 220	17.65	73.60	311.59
3	( 3)	Poland	6 290	13.51	87.10	182.45
4	( 5)	China	2 500	5.37	92.47	28.82
5	( 4)	Kazakhstan	1 600	3.44	95.91	11.81
6	( 6)	Russia	1 000	2.15	98.06	4.61
7	( 7)	Uzbekistan	500	1.07	99.13	1.15
8	( 8)	Armenia	405	0.87	100.00	0.76
		Total	46 567	100.00		HHI 3 671

## Selenium

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Japan	768	25.70	25.70	660.63
2	( 2)	China	750	25.10	50.80	630.03
3	( 3)	Germany	300	10.04	60.84	100.80
4	( 4)	Belgium	200	6.69	67.54	44.80
5	( 5)	Russia	185	6.19	73.73	38.33
6	( 6)	United States	120	4.02	77.74	16.13
7	( 8)	Finland	109	3.65	81.39	13.31
8	( 7)	Mexico	107	3.58	84.97	12.82
9	( 9)	Philippines	100	3.35	88.32	11.20
10	(12)	Canada	85	2.84	91.16	8.09
11	(11)	Poland	66	2.21	93.37	4.88
12	(14)	Peru	55	1.84	95.21	3.39
13	(13)	Uzbekistan	48	1.61	96.82	2.58
14	(10)	Sweden	40	1.34	98.16	1.79
15	(16)	Serbia	28	0.94	99.10	0.88
16	(17)	India	17	0.57	99.67	0.32
17	(15)	Kazakhstan	10	0.33	100.00	0.11
		Total	2 988	100.00		HHI 1 550

## Tellurium

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	480	74.19	74.19	5 503.94
2	( 3)	Japan	58	8.96	83.15	80.36
3	( 4)	Sweden	45	6.96	90.11	48.37

4	( 2)	Russia	35	5.41	95.52	29.26
5	( 5)	Canada	25	3.86	99.38	14.93
6	( 6)	Bulgaria	4	0.62	100.00	0.38
		Total	647	100.00		HHI 5 677

## Tin

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 2)	China	87 414	27.50	27.50	756.28
2	( 1)	Indonesia	83 015	26.12	53.62	682.08
3	( 3)	Myanmar	54 500	17.15	70.76	293.98
4	( 5)	Peru	18 601	5.85	76.62	34.24
5	( 4)	Bolivia	17 251	5.43	82.04	29.45
6	( 6)	Brazil	17 100	5.38	87.42	28.94
7	( 7)	Congo, D.R.	8 950	2.82	90.24	7.93
8	( 8)	Nigeria	7 850	2.47	92.71	6.10
9	( 9)	Australia	6 871	2.16	94.87	4.67
10	(10)	Vietnam	5 470	1.72	96.59	2.96
11	(11)	Malaysia	3 868	1.22	97.81	1.48
12	(12)	Rwanda	3 405	1.07	98.88	1.15
13	(13)	Russia	1 531	0.48	99.36	0.23
14	(14)	Laos	1 395	0.44	99.80	0.19
15	(16)	United Kingdom	220	0.07	99.87	0.00
16	(17)	Burundi	126	0.04	99.91	0.00
17	(18)	Portugal	111	0.03	99.94	0.00
18	(20)	Uganda	53	0.02	99.96	0.00
19	(15)	Thailand	47	0.01	99.97	0.00
20	(21)	Spain	32	0.01	99.98	0.00
21	(22)	Mongolia	25	0.01	99.99	0.00
22	(23)	India	21	0.01	100.00	0.00
23	(19)	Tanzania	6	0.00	100.00	0.00
		Total	317 862	100.00		HHI 1 850

## Zinc

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	4 160 000	32.90	32.90	1 082.65
2	( 2)	Peru	1 474 674	11.66	44.57	136.05
3	( 3)	Australia	1 111 841	8.79	53.36	77.34
4	( 4)	United States	824 000	6.52	59.88	42.48
5	( 5)	India	719 920	5.69	65.57	32.42
6	( 6)	Mexico	662 355	5.24	70.81	27.45
7	( 7)	Bolivia	519 630	4.11	74.92	16.89
8	( 9)	Kazakhstan	304 400	2.41	77.33	5.80
9	( 8)	Canada	287 119	2.27	79.60	5.16
10	(10)	Russia	261 000	2.06	81.67	4.26
11	(11)	Sweden	237 715	1.88	83.55	3.54
12	(12)	Iran	210 000	1.66	85.21	2.76

13	(14)	Turkey	184 500	1.46	86.67	2.13
14	(13)	Brazil	167 249	1.32	87.99	1.75
15	(20)	Portugal	144 983	1.15	89.14	1.32
16	(16)	Ireland	131 742	1.04	90.18	1.09
17	(17)	Eritrea	125 000	0.99	91.17	0.98
18	(15)	Namibia	118 310	0.94	92.10	0.88
19	(19)	Burkina Faso	99 162	0.78	92.89	0.62
20	(18)	Tajikistan	96 410	0.76	93.65	0.58
21	(21)	Spain	95 475	0.76	94.40	0.57
22	(22)	Finland	85 067	0.67	95.08	0.45
23	(23)	Uzbekistan	56 000	0.44	95.52	0.20
24	(24)	Morocco	51 000	0.40	95.92	0.16
25	(26)	Mongolia	43 950	0.35	96.27	0.12
26	(25)	Poland	43 000	0.34	96.61	0.12
27	(51)	Cuba	42 250	0.33	96.94	0.11
28	(27)	Korea, North	30 000	0.24	97.18	0.06
29	(30)	North Macedonia	29 720	0.24	97.42	0.06
30	(34)	Honduras	28 422	0.22	97.64	0.05
31	(28)	South Africa	28 129	0.22	97.86	0.05
32	(35)	Pakistan	26 980	0.21	98.08	0.05
33	(32)	Nigeria	26 920	0.21	98.29	0.05
34	(29)	Chile	26 810	0.21	98.50	0.04
35	(33)	Saudi Arabia	26 330	0.21	98.71	0.04
36	(31)	Argentina	22 050	0.17	98.89	0.03
37	(37)	Greece	21 515	0.17	99.06	0.03
38	(36)	Bulgaria	20 390	0.16	99.22	0.03
39	(38)	Indonesia	20 070	0.16	99.38	0.03
40	(39)	Myanmar	12 240	0.10	99.47	0.01
41	(41)	Vietnam	12 000	0.09	99.57	0.01
42	(42)	Serbia	11 830	0.09	99.66	0.01
43	(44)	Montenegro	9 680	0.08	99.74	0.01
44	(43)	Bosnia-Herzegovina	9 350	0.07	99.81	0.01
45	(46)	Armenia	6 946	0.05	99.87	0.00
46	(49)	Dominican Republic	4 038	0.03	99.90	0.00
47	(50)	Korea, South	3 660	0.03	99.93	0.00
48	(47)	Kosovo	3 600	0.03	99.96	0.00
49	(**)	Laos	3 080	0.02	99.98	0.00
50	(40)	Congo, D.R.	1 047	0.01	99.99	0.00
51	(54)	Algeria	500	0.00	99.99	0.00
52	(48)	Congo, Rep.	460	0.00	100.00	0.00
53	(53)	Romania	330	0.00	100.00	0.00
54	(55)	Slovakia	151	0.00	100.00	0.00
		Total	12 643 000	100.00		HHI 1 448

### 6.5.3 Precious Metals

#### Gold

Rank 2018	Rank 2017	Country	Production 2018 kg	Share in %	Share cum. %	Share HHI
1	( 1)	China	401 119	11.91	11.91	141.87
2	( 2)	Australia	313 028	9.30	21.21	86.40
3	( 3)	Russia	279 850	8.31	29.52	69.06



4	( 4)	United States	226 000	6.71	36.23	45.04
5	( 5)	Canada	186 866	5.55	41.78	30.79
6	( 7)	Ghana	149 048	4.43	46.20	19.59
7	( 6)	Peru	142 643	4.24	50.44	17.94
8	( 9)	Mexico	141 143	4.19	54.63	17.57
9	(11)	Indonesia	135 250	4.02	58.65	16.13
10	( 8)	South Africa	117 144	3.48	62.12	12.10
11	(13)	Kazakhstan	100 288	2.98	65.10	8.87
12	(10)	Sudan	93 600	2.78	67.88	7.73
13	(12)	Uzbekistan	88 500	2.63	70.51	6.91
14	(14)	Brazil	81 000	2.41	72.91	5.79
15	(15)	Papua New Guinea	67 282	2.00	74.91	3.99
16	(17)	Mali	60 893	1.81	76.72	3.27
17	(16)	Argentina	58 375	1.73	78.45	3.00
18	(19)	Burkina Faso	52 622	1.56	80.02	2.44
19	(20)	Tanzania	39 304	1.17	81.18	1.36
20	(22)	Chile	37 066	1.10	82.28	1.21
21	(24)	Congo, D.R.	36 777	1.09	83.38	1.19
22	(21)	Colombia	35 560	1.06	84.43	1.12
23	(26)	Zimbabwe	35 054	1.04	85.47	1.08
24	(23)	Dominican Republic	31 640	0.94	86.41	0.88
25	(25)	Bolivia	31 599	0.94	87.35	0.88
26	(29)	Turkey	27 100	0.80	88.16	0.65
27	(27)	Suriname	26 006	0.77	88.93	0.60
28	(18)	Guinea	25 823	0.77	89.70	0.59
29	(28)	Cote d'Ivoire	24 457	0.73	90.42	0.53
30	(30)	Kyrgyzstan	22 316	0.66	91.08	0.44
31	(31)	Philippines	20 765	0.62	91.70	0.38
32	(34)	Mongolia	20 655	0.61	92.31	0.38
33	(32)	Guyana	19 069	0.57	92.88	0.32
34	(35)	Egypt	14 694	0.44	93.32	0.19
35	(36)	Saudi Arabia	13 397	0.40	93.71	0.16
36	(46)	Senegal	12 508	0.37	94.09	0.14
37	(37)	New Zealand	10 045	0.30	94.38	0.09
38	(48)	Nigeria	10 000	0.30	94.68	0.09
39	(33)	Togo	10 000	0.30	94.98	0.09
40	(38)	Korea, North	10 000	0.30	95.27	0.09
41	(40)	Mauritania	9 236	0.27	95.55	0.08
42	(42)	Venezuela	9 100	0.27	95.82	0.07
43	(41)	Bulgaria	8 995	0.27	96.09	0.07
44	(39)	Finland	8 732	0.26	96.35	0.07
45	(51)	Ecuador	8 213	0.24	96.59	0.06
46	(43)	Sweden	7 866	0.23	96.82	0.05
47	(45)	Nicaragua	7 703	0.23	97.05	0.05
48	(47)	Iran	7 600	0.23	97.28	0.05
49	(52)	Liberia	7 096	0.21	97.49	0.04
50	(44)	Namibia	6 632	0.20	97.69	0.04
51	(50)	Japan	6 453	0.19	97.88	0.04
52	(54)	Tajikistan	6 432	0.19	98.07	0.04
53	(76)	Niger	6 207	0.18	98.25	0.03
54	(53)	Laos	5 579	0.17	98.42	0.03
55	(56)	Armenia	4 909	0.15	98.56	0.02
56	(49)	Azerbaijan	4 239	0.13	98.69	0.02
57	(57)	Zambia	4 044	0.12	98.81	0.01
58	(58)	Costa Rica	3 699	0.11	98.92	0.01
59	(55)	Ethiopia	3 495	0.10	99.02	0.01
60	(62)	Malaysia	2 978	0.09	99.11	0.01
61	(60)	Madagascar	2 977	0.09	99.20	0.01
62	(59)	Georgia	2 913	0.09	99.29	0.01
63	(78)	Greece	2 839	0.08	99.37	0.01
64	(63)	Rwanda	2 163	0.06	99.44	0.00
65	(61)	Honduras	2 070	0.06	99.50	0.00

66	(64)	Spain	1 991	0.06	99.56	0.00
67	(65)	India	1 360	0.04	99.60	0.00
68	(69)	Fiji	1 281	0.04	99.63	0.00
69	(75)	Burundi	1 255	0.04	99.67	0.00
70	(68)	French Guiana	1 200	0.04	99.71	0.00
71	(77)	Botswana	1 105	0.03	99.74	0.00
72	(72)	Eritrea	1 000	0.03	99.77	0.00
73	(74)	Romania	900	0.03	99.80	0.00
74	(70)	Serbia	839	0.02	99.82	0.00
75	(73)	North Macedonia	767	0.02	99.84	0.00
76	(82)	Vietnam	600	0.02	99.86	0.00
77	(81)	Poland	523	0.02	99.88	0.00
78	(84)	Slovakia	515	0.02	99.89	0.00
79	(87)	Mozambique	507	0.02	99.91	0.00
80	(83)	Kenya	472	0.01	99.92	0.00
81	(88)	Sierra Leone	464	0.01	99.94	0.00
82	(79)	Cameroon	448	0.01	99.95	0.00
83	(71)	Uruguay	393	0.01	99.96	0.00
84	(89)	Algeria	286	0.01	99.97	0.00
85	(85)	Korea, South	239	0.01	99.98	0.00
86	(67)	Myanmar	203	0.01	99.98	0.00
87	(86)	Morocco	160	0.00	99.99	0.00
88	(91)	Congo, Rep.	150	0.00	99.99	0.00
89	(90)	Central African Republic	142	0.00	100.00	0.00
90	(80)	Gabon	83	0.00	100.00	0.00
91	(92)	Cyprus	47	0.00	100.00	0.00
92	(94)	Uganda	12	0.00	100.00	0.00
93	(93)	Benin	5	0.00	100.00	0.00
94	(95)	Taiwan	4	0.00	100.00	0.00
		Total	3 367 607	100.00		HHI 512

## Palladium

Rank 2018	Rank 2017	Co un try	Production 2018 kg	Share in %	Share cum. %	Share HHI
1	( 2)	Russia	92 570	41.42	41.42	1 715.53
2	( 1)	South Africa	80 629	36.08	77.49	1 301.48
3	( 3)	Canada	20 880	9.34	86.84	87.28
4	( 4)	United States	14 377	6.43	93.27	41.38
5	( 5)	Zimbabwe	12 094	5.41	98.68	29.28
6	( 6)	China	1 300	0.58	99.26	0.34
7	( 7)	Finland	1 157	0.52	99.78	0.27
8	( 8)	Australia	430	0.19	99.97	0.04
9	( 9)	Serbia	55	0.02	100.00	0.00
10	(10)	Poland	5	0.00	100.00	0.00
		Total	223 497	100.00		HHI 3 176

## Platinum

Rank 2018	Rank 2017	Country	Production 2018 kg	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	137 053	72.47	72.47	5 252.28
2	( 2)	Russia	21 370	11.30	83.77	127.70
3	( 3)	Zimbabwe	14 703	7.77	91.55	60.45
4	( 4)	Canada	7 460	3.94	95.49	15.56
5	( 5)	United States	4 055	2.14	97.64	4.60
6	( 6)	China	2 500	1.32	98.96	1.75
7	( 7)	Finland	1 576	0.83	99.79	0.69
8	( 8)	Colombia	269	0.14	99.93	0.02
9	( 9)	Australia	110	0.06	99.99	0.00
10	(10)	Poland	8	0.00	100.00	0.00
11	(11)	Serbia	6	0.00	100.00	0.00
		Total	189 110	100.00		HHI 5 463

## Rhodium

Rank 2018	Rank 2017	Country	Production 2018 kg	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	18 608	81.12	81.12	6 580.95
2	( 2)	Russia	2 146	9.36	90.48	87.53
3	( 3)	Zimbabwe	1 334	5.82	96.29	33.82
4	( 4)	Canada	750	3.27	99.56	10.69
5	( 5)	United States	100	0.44	100.00	0.19
		Total	22 938	100.00		HHI 6 713

## Silver

Rank 2018	Rank 2017	Country	Production 2018 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Mexico	7 243 245	26.15	26.15	683.82
2	( 2)	Peru	4 162 658	15.03	41.18	225.85
3	( 3)	China	3 573 792	12.90	54.08	166.47
4	( 4)	Chile	1 370 237	4.95	59.03	24.47
5	( 5)	Russia	1 349 890	4.87	63.90	23.75
6	( 6)	Poland	1 264 300	4.56	68.47	20.83
7	( 8)	Australia	1 254 480	4.53	72.99	20.51
8	( 7)	Bolivia	1 191 024	4.30	77.29	18.49
9	(11)	Argentina	1 023 768	3.70	80.99	13.66
10	( 9)	Kazakhstan	969 347	3.50	84.49	12.25
11	(10)	United States	934 000	3.37	87.86	11.37
12	(12)	India	652 900	2.36	90.22	5.56
13	(13)	Sweden	443 624	1.60	91.82	2.57
14	(14)	Canada	368 113	1.33	93.15	1.77
15	(16)	Indonesia	308 810	1.11	94.26	1.24
16	(20)	Turkey	202 400	0.73	95.00	0.53

17	(19)	Dominican Republic	166 510	0.60	95.60	0.36
18	(18)	Uzbekistan	161 700	0.58	96.18	0.34
19	(17)	Morocco	155 000	0.56	96.74	0.31
20	(21)	Spain	89 980	0.32	97.06	0.11
21	(23)	Papua New Guinea	72 943	0.26	97.33	0.07
22	(22)	Korea, North	70 000	0.25	97.58	0.06
23	(24)	Mongolia	64 750	0.23	97.81	0.05
24	(30)	Portugal	55 706	0.20	98.02	0.04
25	(27)	Iran	50 000	0.18	98.20	0.03
26	(28)	Brazil	49 600	0.18	98.38	0.03
27	(25)	South Africa	46 467	0.17	98.54	0.03
28	(26)	Bulgaria	41 315	0.15	98.69	0.02
29	(29)	Laos	37 465	0.14	98.83	0.02
30	(31)	Greece	34 890	0.13	98.95	0.02
31	(33)	Honduras	31 182	0.11	99.07	0.01
32	(57)	Eritrea	31 000	0.11	99.18	0.01
33	(32)	Philippines	29 782	0.11	99.29	0.01
34	(35)	North Macedonia	18 570	0.07	99.35	0.00
35	(34)	Romania	18 000	0.06	99.42	0.00
36	(36)	Armenia	16 700	0.06	99.48	0.00
37	(41)	Colombia	15 967	0.06	99.54	0.00
38	(38)	Kyrgyzstan	13 641	0.05	99.58	0.00
39	(39)	Finland	12 849	0.05	99.63	0.00
40	(42)	Tanzania	12 041	0.04	99.67	0.00
41	(37)	Nicaragua	11 263	0.04	99.72	0.00
42	(46)	Tajikistan	9 500	0.03	99.75	0.00
43	(40)	Serbia	8 970	0.03	99.78	0.00
44	(45)	Azerbaijan	8 943	0.03	99.81	0.00
45	(43)	Korea, South	7 090	0.03	99.84	0.00
46	(49)	Saudi Arabia	6 480	0.02	99.86	0.00
47	(44)	New Zealand	6 332	0.02	99.89	0.00
48	(48)	Burkina Faso	6 160	0.02	99.91	0.00
49	(50)	Ghana	4 000	0.01	99.92	0.00
50	(47)	Namibia	3 850	0.01	99.94	0.00
51	(51)	Japan	3 596	0.01	99.95	0.00
52	(52)	Congo, D.R.	3 400	0.01	99.96	0.00
53	(53)	Mali	3 000	0.01	99.97	0.00
54	(55)	Malaysia	1 542	0.01	99.98	0.00
55	(56)	Ireland	1 160	0.00	99.98	0.00
56	(54)	Sudan	1 000	0.00	99.99	0.00
57	(58)	Ethiopia	1 000	0.00	99.99	0.00
58	(59)	Senegal	940	0.00	99.99	0.00
59	(60)	Cote d'Ivoire	510	0.00	99.99	0.00
60	(62)	Fiji	358	0.00	100.00	0.00
61	(61)	Slovakia	345	0.00	100.00	0.00
62	(63)	Niger	300	0.00	100.00	0.00
63	(65)	Ecuador	192	0.00	100.00	0.00
64	(64)	Cyprus	180	0.00	100.00	0.00
65	(66)	Algeria	30	0.00	100.00	0.00
		Total	27 698 787	100.00		HHI 1 235

## 6.5.4 Industrial Minerals

### Asbestos

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	752 500	61.36	61.36	3 764.86
2	( 2)	Kazakhstan	202 900	16.54	77.90	273.72
3	( 4)	China	170 000	13.86	91.76	192.15
4	( 3)	Brazil	101 000	8.24	100.00	67.82
		Total	1 226 400	100.00		HHI 4 299

### Baryte

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	3 100 000	33.67	33.67	1 133.66
2	( 2)	India	2 000 000	21.72	55.39	471.87
3	( 3)	Morocco	800 000	8.69	64.08	75.50
4	( 4)	Kazakhstan	570 000	6.19	70.27	38.33
5	( 6)	Mexico	523 980	5.69	75.96	32.39
6	( 5)	Iran	477 227	5.18	81.15	26.87
7	( 8)	Turkey	465 138	5.05	86.20	25.52
8	( 7)	United States	366 000	3.98	90.17	15.80
9	( 9)	Russia	265 300	2.88	93.06	8.30
10	(11)	Pakistan	88 847	0.96	94.02	0.93
11	(13)	Bulgaria	70 000	0.76	94.78	0.58
12	(10)	Thailand	67 490	0.73	95.51	0.54
13	(14)	United Kingdom	55 000	0.60	96.11	0.36
14	(19)	Bolivia	53 163	0.58	96.69	0.33
15	(12)	Vietnam	50 000	0.54	97.23	0.29
16	(15)	Canada	50 000	0.54	97.77	0.29
17	(18)	Algeria	39 426	0.43	98.20	0.18
18	(16)	Germany	39 218	0.43	98.63	0.18
19	(17)	Laos	35 000	0.38	99.01	0.14
20	(20)	Brazil	17 000	0.18	99.19	0.03
21	(24)	Peru	15 621	0.17	99.36	0.03
22	(21)	Slovakia	11 100	0.12	99.48	0.01
23	(23)	Tunisia	10 000	0.11	99.59	0.01
24	(28)	Myanmar	9 658	0.10	99.70	0.01
25	(22)	Argentina	7 225	0.08	99.78	0.01
26	(25)	Australia	6 535	0.07	99.85	0.01
27	(26)	Korea, North	4 200	0.05	99.89	0.00
28	(27)	Egypt	4 000	0.04	99.94	0.00
29	(**)	Ecuador	2 868	0.03	99.97	0.00
30	(29)	Colombia	2 586	0.03	100.00	0.00
31	(30)	Nigeria	387	0.00	100.00	0.00
32	(31)	Guatemala	63	0.00	100.00	0.00
		Total	9 207 032	100.00		HHI 1 832

## Bentonite

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	5 600 000	26.33	26.33	693.50
2	( 2)	United States	4 670 000	21.96	48.30	482.28
3	( 3)	India	3 000 000	14.11	62.40	199.03
4	( 5)	Greece	1 365 374	6.42	68.82	41.23
5	( 4)	Turkey	1 331 955	6.26	75.09	39.23
6	( 6)	Russia	714 000	3.36	78.44	11.27
7	( 8)	Brazil	500 000	2.35	80.80	5.53
8	( 9)	Japan	500 000	2.35	83.15	5.53
9	( 7)	Iran	423 604	1.99	85.14	3.97
10	(10)	Germany	379 000	1.78	86.92	3.18
11	(11)	Czech Republic	277 000	1.30	88.22	1.70
12	(13)	Slovakia	269 990	1.27	89.49	1.61
13	(18)	Mexico	264 800	1.25	90.74	1.55
14	(12)	Azerbaijan	212 300	1.00	91.74	1.00
15	(17)	Argentina	184 969	0.87	92.61	0.76
16	(14)	Spain	178 463	0.84	93.45	0.70
17	(20)	Ukraine	178 200	0.84	94.28	0.70
18	(15)	Morocco	175 000	0.82	95.11	0.68
19	(16)	South Africa	173 486	0.82	95.92	0.67
20	(19)	Kazakhstan	120 000	0.56	96.49	0.32
21	(23)	Italy	100 067	0.47	96.96	0.22
22	(21)	Cyprus	98 800	0.46	97.42	0.22
23	(22)	Bosnia-Herzegovina	87 358	0.41	97.83	0.17
24	(28)	Pakistan	74 268	0.35	98.18	0.12
25	(25)	Australia	61 000	0.29	98.47	0.08
26	(24)	Denmark	56 173	0.26	98.73	0.07
27	(26)	Bulgaria	45 000	0.21	98.95	0.04
28	(29)	Algeria	36 000	0.17	99.11	0.03
29	(33)	France	35 696	0.17	99.28	0.03
30	(30)	Romania	34 809	0.16	99.45	0.03
31	(27)	Korea, South	31 824	0.15	99.60	0.02
32	(32)	Hungary	25 000	0.12	99.71	0.01
33	(34)	Guatemala	16 953	0.08	99.79	0.01
34	(35)	Turkmenistan	10 000	0.05	99.84	0.00
35	(37)	Uruguay	7 760	0.04	99.88	0.00
36	(36)	Indonesia	7 000	0.03	99.91	0.00
37	(43)	New Zealand	4 482	0.02	99.93	0.00
38	(**)	Norway	3 234	0.02	99.95	0.00
39	(41)	North Macedonia	2 945	0.01	99.96	0.00
40	(42)	Peru	2 383	0.01	99.97	0.00
41	(39)	Egypt	2 000	0.01	99.98	0.00
42	(46)	Mozambique	1 091	0.01	99.99	0.00
43	(38)	Philippines	660	0.00	99.99	0.00
44	(45)	Cuba	630	0.00	99.99	0.00
45	(**)	Poland	560	0.00	99.99	0.00
46	(44)	Myanmar	540	0.00	100.00	0.00
47	(40)	Chile	525	0.00	100.00	0.00
48	(47)	Slovenia	113	0.00	100.00	0.00
49	(48)	Bolivia	2	0.00	100.00	0.00
		Total	21 265 014	100.00		HHI 1 495

## Boron

Rank 2018	Rank 2017	Co untry	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	2 432 000	54.14	54.14	2 930.66
2	( 2)	United States	1 075 000	23.93	78.06	572.60
3	( 3)	Chile	398 411	8.87	86.93	78.65
4	( 4)	Bolivia	216 403	4.82	91.75	23.20
5	(**)	Peru	100 552	2.24	93.99	5.01
6	( 6)	Russia	88 000	1.96	95.95	3.84
7	( 7)	China	80 000	1.78	97.73	3.17
8	( 5)	Argentina	71 212	1.59	99.31	2.51
9	( 8)	Kazakhstan	30 000	0.67	99.98	0.45
10	( 9)	Iran	851	0.02	100.00	0.00
		Total	4 492 429	100.00		HHI 3 620

## Diamonds (Gem)

Rank 2018	Rank 2017	Co untry	Production 2018 ct	Share in %	Share cum. %	Share HHI
1	( 2)	Russia	22 973 133	28.41	28.41	806.95
2	( 1)	Canada	22 789 001	28.18	56.59	794.07
3	( 3)	Botswana	17 064 600	21.10	77.69	445.24
4	( 4)	Angola	7 567 820	9.36	87.04	87.57
5	( 5)	South Africa	3 965 710	4.90	91.95	24.05
6	( 7)	Namibia	1 985 670	2.46	94.40	6.03
7	( 6)	Congo, D.R.	1 815 745	2.25	96.65	5.04
8	( 8)	Zimbabwe	975 730	1.21	97.86	1.46
9	(12)	Sierra Leone	402 530	0.50	98.35	0.25
10	(10)	Tanzania	324 105	0.40	98.75	0.16
11	( 9)	Australia	280 160	0.35	99.10	0.12
12	(11)	Lesotho	258 860	0.32	99.42	0.10
13	(13)	Guinea	219 530	0.27	99.69	0.07
14	(14)	Brazil	82 810	0.10	99.79	0.01
15	(17)	Guyana	46 580	0.06	99.85	0.00
16	(15)	Ghana	46 025	0.06	99.91	0.00
17	(18)	Liberia	45 270	0.06	99.96	0.00
18	(19)	India	13 020	0.02	99.98	0.00
19	(16)	Central African Republic	10 020	0.01	99.99	0.00
20	(20)	Cote d'Ivoire	4 540	0.01	100.00	0.00
21	(**)	Venezuela	800	0.00	100.00	0.00
22	(21)	China	99	0.00	100.00	0.00
		Total	80 871 758	100.00		HHI 2 171

## Diamonds (Ind)

Rank 2018	Rank 2017	Co untry	Production 2018 ct	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	20 187 926	30.81	30.81	949.21
2	( 2)	Australia	13 727 890	20.95	51.76	438.92
3	( 3)	Congo, D.R.	13 315 465	20.32	72.08	412.95
4	( 4)	Botswana	7 313 400	11.16	83.24	124.57
5	( 5)	South Africa	5 948 560	9.08	92.32	82.41
6	( 6)	Zimbabwe	2 276 690	3.47	95.79	12.07
7	( 8)	Lesotho	1 035 420	1.58	97.38	2.50
8	( 7)	Angola	840 870	1.28	98.66	1.65
9	(10)	Sierra Leone	339 070	0.52	99.18	0.27
10	( 9)	Brazil	168 130	0.26	99.43	0.07
11	(11)	Namibia	104 510	0.16	99.59	0.03
12	(14)	Guinea	73 180	0.11	99.70	0.01
13	(13)	Tanzania	57 195	0.09	99.79	0.01
14	(12)	Congo, Rep.	46 768	0.07	99.86	0.01
15	(16)	Liberia	30 180	0.05	99.91	0.00
16	(15)	India	26 430	0.04	99.95	0.00
17	(18)	Guyana	15 530	0.02	99.97	0.00
18	(17)	Ghana	11 505	0.02	99.99	0.00
19	(19)	Central African Republic	2 505	0.00	99.99	0.00
20	(21)	Cameroon	1 805	0.00	100.00	0.00
21	(**)	Venezuela	1 200	0.00	100.00	0.00
22	(20)	Cote d'Ivoire	1 140	0.00	100.00	0.00
		Total	65 525 369	100.00		HHI 2 025

## Diatomite

Rank 2018	Rank 2017	Co untry	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	957 000	43.39	43.39	1 882.57
2	( 2)	China	280 000	12.69	56.08	161.15
3	( 3)	Turkey	242 789	11.01	67.09	121.17
4	( 7)	Mexico	152 028	6.89	73.98	47.51
5	( 5)	Denmark	99 400	4.51	78.49	20.31
6	( 6)	Peru	96 532	4.38	82.87	19.15
7	( 8)	France	90 000	4.08	86.95	16.65
8	(10)	Argentina	72 490	3.29	90.23	10.80
9	( 9)	Spain	70 000	3.17	93.41	10.07
10	(**)	Mozambique	34 200	1.55	94.96	2.40
11	(11)	Czech Republic	31 000	1.41	96.36	1.98
12	( 4)	Korea, South	25 902	1.17	97.54	1.38
13	(12)	Chile	24 736	1.12	98.66	1.26
14	(14)	Brazil	16 000	0.73	99.38	0.53
15	(16)	Ethiopia	5 000	0.23	99.61	0.05
16	(15)	Costa Rica	3 972	0.18	99.79	0.03
17	(17)	Algeria	2 468	0.11	99.90	0.01
18	(18)	Kenya	1 548	0.07	99.97	0.00
19	(20)	Poland	580	0.03	100.00	0.00
20	(19)	Australia	4	0.00	100.00	0.00
		Total	2 205 649	100.00		HHI 2 297



## Feldspar

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	11 474 040	30.93	30.93	956.93
2	( 2)	Germany	5 300 000	14.29	45.22	204.17
3	( 3)	India	4 300 000	11.59	56.82	134.40
4	( 5)	China	2 500 000	6.74	63.56	45.43
5	( 6)	Italy	2 200 000	5.93	69.49	35.18
6	( 4)	Indonesia	2 000 000	5.39	74.88	29.07
7	( 8)	Iran	1 320 452	3.56	78.44	12.67
8	( 7)	Thailand	1 117 803	3.01	81.45	9.08
9	(12)	Mexico	907 755	2.45	83.90	5.99
10	( 9)	Spain	800 000	2.16	86.06	4.65
11	(10)	Korea, South	617 567	1.66	87.72	2.77
12	(13)	United States	550 000	1.48	89.21	2.20
13	(11)	France	550 000	1.48	90.69	2.20
14	(15)	Czech Republic	449 000	1.21	91.90	1.47
15	(14)	Malaysia	412 000	1.11	93.01	1.23
16	(17)	Brazil	300 000	0.81	93.82	0.65
17	(16)	Russia	281 300	0.76	94.58	0.58
18	(19)	Egypt	230 000	0.62	95.20	0.38
19	(20)	Saudi Arabia	175 594	0.47	95.67	0.22
20	(20)	Algeria	170 000	0.46	96.13	0.21
21	(18)	Pakistan	151 743	0.41	96.54	0.17
22	(23)	Colombia	141 164	0.38	96.92	0.14
23	(24)	Portugal	130 475	0.35	97.27	0.12
24	(22)	Argentina	124 500	0.34	97.61	0.11
25	(26)	Japan	105 000	0.28	97.89	0.08
26	(27)	Morocco	101 000	0.27	98.16	0.07
27	(25)	South Africa	76 803	0.21	98.37	0.04
28	(30)	Poland	71 480	0.19	98.56	0.04
29	(28)	Sri Lanka	70 000	0.19	98.75	0.04
30	(32)	Ukraine	50 000	0.13	98.88	0.02
31	(31)	Philippines	47 000	0.13	99.01	0.02
32	(29)	Ecuador	43 197	0.12	99.13	0.01
33	(37)	Nigeria	41 355	0.11	99.24	0.01
34	(36)	Sudan	36 000	0.10	99.34	0.01
35	(33)	Austria	35 000	0.09	99.43	0.01
36	(41)	Peru	31 588	0.09	99.52	0.01
37	(39)	North Macedonia	30 813	0.08	99.60	0.01
38	(35)	Guatemala	30 257	0.08	99.68	0.01
39	(34)	Venezuela	30 000	0.08	99.76	0.01
40	(38)	Sweden	28 000	0.08	99.84	0.01
41	(44)	Romania	20 000	0.05	99.89	0.00
42	(42)	Finland	17 469	0.05	99.94	0.00
43	(40)	Slovakia	16 800	0.05	99.98	0.00
44	(46)	Chile	2 789	0.01	99.99	0.00
45	(43)	Cuba	1 500	0.00	99.99	0.00
46	(45)	Dominican Republic	1 200	0.00	100.00	0.00
47	(48)	Australia	542	0.00	100.00	0.00
48	(47)	Uruguay	380	0.00	100.00	0.00
		<b>Total</b>	<b>37 091 566</b>	<b>100.00</b>		<b>HHI 1 450</b>

## Fluorspar

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	3 500 000	51.04	51.04	2 605.05
2	( 2)	Mexico	1 959 089	28.57	79.61	816.18
3	( 3)	Mongolia	555 230	8.10	87.71	65.56
4	( 4)	Vietnam	238 700	3.48	91.19	12.12
5	( 5)	South Africa	230 000	3.35	94.54	11.25
6	( 6)	Spain	110 000	1.60	96.14	2.57
7	( 7)	Morocco	76 000	1.11	97.25	1.23
8	( 8)	Iran	55 000	0.80	98.05	0.64
9	( 9)	Germany	49 197	0.72	98.77	0.51
10	(17)	Thailand	16 700	0.24	99.02	0.06
11	(11)	Brazil	15 000	0.22	99.23	0.05
12	(13)	United Kingdom	11 000	0.16	99.39	0.03
13	(14)	Afghanistan	10 000	0.15	99.54	0.02
14	(12)	Argentina	7 924	0.12	99.66	0.01
15	(16)	Korea, North	6 900	0.10	99.76	0.01
16	(10)	Turkey	6 200	0.09	99.85	0.01
17	(18)	Russia	6 000	0.09	99.93	0.01
18	(19)	Pakistan	2 777	0.04	99.98	0.00
19	(21)	Egypt	1 000	0.01	99.99	0.00
20	(20)	India	650	0.01	100.00	0.00
21	(22)	Colombia	46	0.00	100.00	0.00
Total			6 857 413	100.00		HHI 3 515

## Graphite

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	630 000	60.17	60.17	3 620.33
2	(15)	Mozambique	104 000	9.93	70.10	98.66
3	( 2)	Brazil	96 800	9.25	79.35	85.47
4	( 7)	Madagascar	47 900	4.57	83.92	20.93
5	( 3)	Korea, North	45 000	4.30	88.22	18.47
6	( 4)	India	38 900	3.72	91.93	13.80
7	( 5)	Russia	19 200	1.83	93.77	3.36
8	(11)	Turkey	16 752	1.60	95.37	2.56
9	( 8)	Ukraine	15 000	1.43	96.80	2.05
10	( 6)	Canada	11 000	1.05	97.85	1.10
11	(10)	Norway	10 000	0.96	98.81	0.91
12	( 9)	Mexico	4 198	0.40	99.21	0.16
13	(12)	Sri Lanka	3 800	0.36	99.57	0.13
14	(13)	Namibia	3 456	0.33	99.90	0.11
15	(**)	Korea, South	670	0.06	99.96	0.00
16	(16)	Germany	222	0.02	99.99	0.00
17	(17)	Austria	150	0.01	100.00	0.00
Total			1 047 048	100.00		HHI 3 868

## Gypsum and Anhydrite

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	25 000 000	15.34	15.34	235.28
2	( 2)	United States	21 100 000	12.95	28.28	167.60
3	( 7)	Mexico	11 202 793	6.87	35.16	47.25
4	( 4)	Thailand	11 197 657	6.87	42.03	47.20
5	( 3)	Iran	10 904 289	6.69	48.72	44.76
6	( 5)	Turkey	10 896 476	6.69	55.40	44.70
7	( 8)	Oman	9 659 683	5.93	61.33	35.13
8	( 6)	Spain	9 500 000	5.83	67.16	33.97
9	(10)	Russia	5 453 400	3.35	70.51	11.20
10	(13)	France	5 314 983	3.26	73.77	10.63
11	( 9)	Germany	4 550 000	2.79	76.56	7.79
12	(11)	Australia	4 343 922	2.67	79.22	7.10
13	(12)	Saudi Arabia	3 352 832	2.06	81.28	4.23
14	(14)	Canada	3 240 000	1.99	83.27	3.95
15	(17)	Pakistan	2 475 893	1.52	84.79	2.31
16	(15)	Algeria	2 200 000	1.35	86.14	1.82
17	(16)	Brazil	2 115 000	1.30	87.44	1.68
18	(18)	India	2 000 000	1.23	88.66	1.51
19	(19)	Ukraine	1 386 400	0.85	89.51	0.72
20	(20)	United Kingdom	1 300 000	0.80	90.31	0.64
21	(23)	Poland	1 042 000	0.64	90.95	0.41
22	(25)	Tunisia	1 000 000	0.61	91.56	0.38
23	(24)	Iraq	1 000 000	0.61	92.18	0.38
24	(22)	Chile	909 191	0.56	92.74	0.31
25	(21)	Argentina	897 217	0.55	93.29	0.30
26	(27)	Austria	836 862	0.51	93.80	0.26
27	(30)	Greece	827 298	0.51	94.31	0.26
28	(26)	Romania	749 668	0.46	94.77	0.21
29	(28)	Egypt	650 000	0.40	95.17	0.16
30	(29)	Cyprus	625 721	0.38	95.55	0.15
31	(32)	Laos	618 783	0.38	95.93	0.14
32	(38)	Bhutan	461 128	0.28	96.21	0.08
33	(40)	Peru	458 479	0.28	96.49	0.08
34	(33)	Colombia	393 496	0.24	96.73	0.06
35	(35)	Moldova	352 500	0.22	96.95	0.05
36	(36)	Switzerland	340 000	0.21	97.16	0.04
37	(39)	South Africa	324 997	0.20	97.36	0.04
38	(41)	Latvia	320 080	0.20	97.56	0.04
39	(34)	Myanmar	309 343	0.19	97.75	0.04
40	(58)	Ethiopia	253 165	0.16	97.90	0.02
41	(50)	Tanzania	241 260	0.15	98.05	0.02
42	(45)	Portugal	232 921	0.14	98.19	0.02
43	(42)	North Macedonia	230 029	0.14	98.33	0.02
44	(37)	Sudan	226 000	0.14	98.47	0.02
45	(47)	Croatia	211 894	0.13	98.60	0.02
46	(43)	Ireland	200 000	0.12	98.72	0.02
47	(31)	Italy	188 618	0.12	98.84	0.01
48	(46)	Libya	150 000	0.09	98.93	0.01
49	(48)	Guatemala	132 897	0.08	99.01	0.01
50	(60)	Mauritania	130 000	0.08	99.09	0.01
51	(54)	Bosnia-Herzegovina	122 421	0.08	99.17	0.01
52	(49)	Kazakhstan	121 400	0.07	99.24	0.01
53	(51)	Israel	120 000	0.07	99.32	0.01
54	(52)	Albania	102 016	0.06	99.38	0.00
55	(53)	Kyrgyzstan	100 000	0.06	99.44	0.00
56	(57)	Cuba	99 900	0.06	99.50	0.00

57	(56)	Norway	89 655	0.06	99.56	0.00
58	(55)	Bulgaria	88 000	0.05	99.61	0.00
59	(44)	Dominican Republic	86 660	0.05	99.66	0.00
60	(61)	Jordan	80 000	0.05	99.71	0.00
61	(62)	Nicaragua	70 341	0.04	99.76	0.00
62	(63)	Syria	66 000	0.04	99.80	0.00
63	(66)	Slovakia	55 190	0.03	99.83	0.00
64	(64)	Yemen	50 000	0.03	99.86	0.00
65	(65)	Jamaica	47 000	0.03	99.89	0.00
66	(69)	Nigeria	39 052	0.02	99.91	0.00
67	(68)	Afghanistan	36 161	0.02	99.94	0.00
68	(70)	Angola	32 000	0.02	99.96	0.00
69	(71)	Armenia	20 387	0.01	99.97	0.00
70	(67)	Tajikistan	9 639	0.01	99.97	0.00
71	(59)	Azerbaijan	9 145	0.01	99.98	0.00
72	(72)	Indonesia	8 000	0.00	99.98	0.00
73	(73)	Czech Republic	8 000	0.00	99.99	0.00
74	(74)	Kenya	5 700	0.00	99.99	0.00
75	(75)	Honduras	5 000	0.00	100.00	0.00
76	(76)	Paraguay	4 500	0.00	100.00	0.00
77	(78)	Bolivia	1 136	0.00	100.00	0.00
78	(77)	Eritrea	1 000	0.00	100.00	0.00
		Total	162 985 178	100.00		HHI 713

## Kaolin

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	7 500 000	18.03	18.03	324.97
2	( 2)	United States	5 530 000	13.29	31.32	176.68
3	( 3)	Germany	4 930 000	11.85	43.17	140.42
4	( 4)	India	4 000 000	9.61	52.78	92.44
5	( 5)	Czech Republic	3 622 000	8.71	61.49	75.79
6	( 6)	Ukraine	2 091 525	5.03	66.52	25.27
7	( 7)	Brazil	1 550 000	3.73	70.24	13.88
8	( 9)	Turkey	1 515 609	3.64	73.88	13.27
9	( 8)	Russia	1 485 900	3.57	77.46	12.76
10	(11)	Iran	1 158 983	2.79	80.24	7.76
11	(13)	Italy	977 671	2.35	82.59	5.52
12	(10)	United Kingdom	970 000	2.33	84.92	5.44
13	(17)	Mexico	898 246	2.16	87.08	4.66
14	(12)	Indonesia	750 000	1.80	88.89	3.25
15	(14)	Spain	410 000	0.99	89.87	0.97
16	(16)	Korea, South	364 249	0.88	90.75	0.77
17	(18)	Bulgaria	323 000	0.78	91.52	0.60
18	(15)	Malaysia	312 616	0.75	92.27	0.56
19	(20)	Poland	310 850	0.75	93.02	0.56
20	(23)	Bosnia-Herzegovina	303 626	0.73	93.75	0.53
21	(21)	France	301 842	0.73	94.48	0.53
22	(19)	Portugal	300 265	0.72	95.20	0.52
23	(22)	Uzbekistan	291 814	0.70	95.90	0.49
24	(24)	Egypt	230 000	0.55	96.45	0.31
25	(26)	Saudi Arabia	207 461	0.50	96.95	0.25
26	(27)	Australia	173 738	0.42	97.37	0.17
27	(43)	Tanzania	129 383	0.31	97.68	0.10
28	(28)	Serbia	120 000	0.29	97.97	0.08

29	(29)	Thailand	110 437	0.27	98.23	0.07
30	(25)	Oman	110 300	0.27	98.50	0.07
31	(30)	Algeria	100 000	0.24	98.74	0.06
32	(31)	Vietnam	100 000	0.24	98.98	0.06
33	(32)	Chile	88 262	0.21	99.19	0.05
34	(34)	New Zealand	51 369	0.12	99.31	0.02
35	(36)	Kyrgyzstan	40 000	0.10	99.41	0.01
36	(40)	Slovakia	34 400	0.08	99.49	0.01
37	(37)	South Africa	23 724	0.06	99.55	0.00
38	(45)	Sri Lanka	20 000	0.05	99.60	0.00
39	(39)	Pakistan	19 563	0.05	99.65	0.00
40	(33)	Uganda	17 281	0.04	99.69	0.00
41	(41)	Argentina	17 000	0.04	99.73	0.00
42	(42)	Peru	16 004	0.04	99.77	0.00
43	(44)	Austria	13 500	0.03	99.80	0.00
44	(46)	Japan	12 000	0.03	99.83	0.00
45	(35)	Nigeria	11 707	0.03	99.86	0.00
46	(50)	Sudan	11 000	0.03	99.88	0.00
47	(47)	Jordan	11 000	0.03	99.91	0.00
48	(48)	Philippines	10 000	0.02	99.93	0.00
49	(51)	Ethiopia	10 000	0.02	99.96	0.00
50	(38)	Romania	7 220	0.02	99.97	0.00
51	(49)	Paraguay	6 000	0.01	99.99	0.00
52	(53)	Cuba	2 700	0.01	100.00	0.00
53	(54)	Kenya	1 000	0.00	100.00	0.00
54	(55)	Guatemala	724	0.00	100.00	0.00
55	(57)	Eritrea	200	0.00	100.00	0.00
56	(52)	Taiwan	20	0.00	100.00	0.00
		Total	41 604 189	100.00		HHI 909

## Magnesite

Rank 2018	Rank 2017	Co untry	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	19 000 000	65.97	65.97	4 351.89
2	( 2)	Turkey	1 958 847	6.80	72.77	46.26
3	( 3)	Brazil	1 900 000	6.60	79.37	43.52
4	( 4)	Russia	1 571 400	5.46	84.82	29.77
5	( 5)	Slovakia	1 053 900	3.66	88.48	13.39
6	( 7)	Austria	808 239	2.81	91.29	7.87
7	( 6)	Spain	750 000	2.60	93.89	6.78
8	( 8)	Greece	425 882	1.48	95.37	2.19
9	( 9)	Australia	263 446	0.91	96.29	0.84
10	(11)	Korea, North	172 500	0.60	96.88	0.36
11	(14)	Saudi Arabia	155 000	0.54	97.42	0.29
12	(13)	Canada	150 000	0.52	97.94	0.27
13	(10)	India	148 280	0.51	98.46	0.27
14	(12)	Iran	137 445	0.48	98.94	0.23
15	(15)	Poland	102 110	0.35	99.29	0.13
16	(16)	Mexico	101 000	0.35	99.64	0.12
17	(17)	Finland	49 601	0.17	99.81	0.03
18	(18)	Pakistan	23 596	0.08	99.90	0.01
19	(20)	Philippines	10 000	0.03	99.93	0.00
20	(21)	South Africa	8 500	0.03	99.96	0.00

21	(22)	Bosnia-Herzegovina	5 950	0.02	99.98	0.00
22	(19)	Guatemala	4 745	0.02	100.00	0.00
23	(23)	Colombia	1 039	0.00	100.00	0.00
Total			28 801 480	100.00		HHI 4 504

## Perlite

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 2)	Turkey	1 088 983	39.95	39.95	1 595.97
2	( 1)	Greece	790 412	29.00	68.95	840.79
3	( 3)	United States	510 000	18.71	87.66	350.04
4	( 8)	Iran	71 579	2.63	90.28	6.90
5	(11)	Armenia	51 222	1.88	92.16	3.53
6	( 5)	Russia	45 000	1.65	93.81	2.73
7	( 6)	Philippines	39 000	1.43	95.24	2.05
8	( 4)	Slovakia	35 600	1.31	96.55	1.71
9	( 7)	Hungary	35 000	1.28	97.83	1.65
10	(10)	Mexico	26 400	0.97	98.80	0.94
11	( 9)	Argentina	18 794	0.69	99.49	0.48
12	(12)	Thailand	5 600	0.21	99.70	0.04
13	(13)	Chile	5 020	0.18	99.88	0.03
14	(15)	Australia	2 285	0.08	99.96	0.01
15	(14)	South Africa	1 000	0.04	100.00	0.00
Total			2 725 895	100.00		HHI 2 807

## Phosphates (P<sub>2</sub>O<sub>5</sub>-Content)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	28 897 800	40.07	40.07	1 605.91
2	( 2)	Morocco	10 960 200	15.20	55.27	231.01
3	( 3)	United States	7 250 000	10.05	65.33	101.08
4	( 4)	Russia	5 304 000	7.36	72.68	54.10
5	( 5)	Peru	3 917 140	5.43	78.11	29.51
6	( 6)	Jordan	2 567 170	3.56	81.67	12.67
7	( 8)	Saudi Arabia	1 827 000	2.53	84.21	6.42
8	( 7)	Brazil	1 785 000	2.48	86.68	6.13
9	( 9)	Vietnam	1 627 110	2.26	88.94	5.09
10	(10)	Egypt	1 300 000	1.80	90.74	3.25
11	(12)	Israel	1 100 500	1.53	92.27	2.33
12	(11)	Tunisia	812 800	1.13	93.40	1.27
13	(13)	Senegal	775 410	1.08	94.47	1.16
14	(14)	South Africa	720 400	1.00	95.47	1.00
15	(17)	Algeria	409 400	0.57	96.04	0.32
16	(18)	Kazakhstan	381 200	0.53	96.57	0.28
17	(27)	Iraq	377 120	0.52	97.09	0.27
18	(20)	Togo	370 810	0.51	97.60	0.26
19	(19)	Finland	356 070	0.49	98.10	0.24
20	(16)	India	311 420	0.43	98.53	0.19

21	(15)	Mexico	248 950	0.35	98.87	0.12
22	(21)	Australia	195 720	0.27	99.15	0.07
23	(22)	Uzbekistan	170 000	0.24	99.38	0.06
24	(23)	Christmas Island	127 730	0.18	99.56	0.03
25	(25)	Iran	105 840	0.15	99.71	0.02
26	(24)	Korea, North	95 000	0.13	99.84	0.02
27	(28)	Syria	38 700	0.05	99.89	0.00
28	(26)	Nauru	23 000	0.03	99.92	0.00
29	(29)	Venezuela	16 800	0.02	99.95	0.00
30	(30)	Sri Lanka	16 760	0.02	99.97	0.00
31	(31)	Colombia	12 260	0.02	99.99	0.00
32	(33)	Philippines	8 600	0.01	100.00	0.00
33	(35)	Chile	1 160	0.00	100.00	0.00
34	(37)	Malawi	270	0.00	100.00	0.00
Total			72 111 340	100.00		HHI 2 063

### Potash (K<sub>2</sub>O-Content)

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Canada	14 024 000	31.60	31.60	998.83
2	( 3)	Belarus	7 346 096	16.56	48.16	274.07
3	( 2)	Russia	7 155 000	16.12	64.28	260.00
4	( 4)	China	5 452 000	12.29	76.57	150.96
5	( 5)	Germany	2 754 085	6.21	82.78	38.52
6	( 6)	Israel	2 149 300	4.84	87.62	23.46
7	( 7)	Jordan	1 485 960	3.35	90.97	11.21
8	( 8)	Chile	991 180	2.23	93.20	4.99
9	( 9)	Iran	942 800	2.12	95.33	4.51
10	(10)	Spain	610 000	1.37	96.70	1.89
11	(11)	United States	520 000	1.17	97.87	1.37
12	(12)	Laos	343 500	0.77	98.65	0.60
13	(14)	United Kingdom	291 100	0.66	99.30	0.43
14	(13)	Brazil	201 181	0.45	99.76	0.21
15	(15)	Uzbekistan	92 300	0.21	99.97	0.04
16	(**)	Turkmenistan	15 200	0.03	100.00	0.00
Total			44 373 702	100.00		HHI 1 771

### Salt

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	58 361 700	20.42	20.42	417.17
2	( 2)	United States	41 000 000	14.35	34.77	205.88
3	( 3)	India	30 033 000	10.51	45.28	110.47
4	( 4)	Germany	16 248 784	5.69	50.97	32.34
5	( 5)	Australia	13 493 556	4.72	55.69	22.30
6	( 7)	Mexico	10 852 583	3.80	59.49	14.43
7	( 6)	Canada	10 713 000	3.75	63.24	14.06
8	( 9)	Chile	10 012 105	3.50	66.74	12.28

9	( 8)	Brazil	7 600 000	2.66	69.40	7.07
10	(11)	Netherlands	6 750 546	2.36	71.77	5.58
11	(10)	Russia	6 710 000	2.35	74.11	5.51
12	(12)	Turkey	6 298 705	2.20	76.32	4.86
13	(13)	France	5 385 350	1.88	78.20	3.55
14	(15)	Spain	4 300 000	1.50	79.71	2.26
15	(14)	Poland	4 125 000	1.44	81.15	2.08
16	(16)	United Kingdom	4 100 000	1.43	82.59	2.06
17	(17)	Pakistan	3 647 584	1.28	83.86	1.63
18	(18)	Bulgaria	3 400 000	1.19	85.05	1.42
19	(20)	Belarus	2 904 097	1.02	86.07	1.03
20	(34)	Indonesia	2 719 256	0.95	87.02	0.91
21	(21)	Saudi Arabia	2 646 000	0.93	87.95	0.86
22	(19)	Iran	2 453 873	0.86	88.81	0.74
23	(22)	Romania	2 355 000	0.82	89.63	0.68
24	(25)	Ukraine	2 191 619	0.77	90.40	0.59
25	(24)	Argentina	1 784 020	0.62	91.02	0.39
26	(23)	Italy	1 514 829	0.53	91.55	0.28
27	(28)	Peru	1 509 564	0.53	92.08	0.28
28	(26)	Bangladesh	1 490 000	0.52	92.60	0.27
29	(27)	Thailand	1 487 364	0.52	93.12	0.27
30	(31)	Tunisia	1 400 000	0.49	93.61	0.24
31	(29)	Egypt	1 400 000	0.49	94.10	0.24
32	(30)	Philippines	1 250 000	0.44	94.54	0.19
33	(32)	Austria	1 176 807	0.41	94.95	0.17
34	(36)	Namibia	1 151 153	0.40	95.35	0.16
35	(33)	Bosnia-Herzegovina	1 063 458	0.37	95.73	0.14
36	(39)	Vietnam	953 200	0.33	96.06	0.11
37	(35)	Japan	929 000	0.33	96.38	0.11
38	(37)	Kazakhstan	885 717	0.31	96.69	0.10
39	(48)	Bahamas	854 223	0.30	96.99	0.09
40	(38)	Morocco	660 000	0.23	97.22	0.05
41	(41)	Denmark	600 000	0.21	97.43	0.04
42	(40)	Venezuela	600 000	0.21	97.64	0.04
43	(46)	Switzerland	530 414	0.19	97.83	0.03
44	(44)	Korea, North	500 000	0.17	98.01	0.03
45	(45)	South Africa	478 285	0.17	98.17	0.03
46	(42)	Israel	400 000	0.14	98.31	0.02
47	(43)	Colombia	391 222	0.14	98.45	0.02
48	(47)	Botswana	367 988	0.13	98.58	0.02
49	(52)	Ghana	330 000	0.12	98.69	0.01
50	(49)	Eritrea	310 000	0.11	98.80	0.01
51	(50)	Korea, South	282 590	0.10	98.90	0.01
52	(54)	Iraq	271 500	0.10	99.00	0.01
53	(55)	Sudan	267 000	0.09	99.09	0.01
54	(51)	Senegal	245 700	0.09	99.18	0.01
55	(53)	Cuba	192 700	0.07	99.24	0.00
56	(58)	Myanmar	189 146	0.07	99.31	0.00
57	(56)	Greece	163 474	0.06	99.37	0.00
58	(59)	Armenia	155 393	0.05	99.42	0.00
59	(71)	Ethiopia	122 850	0.04	99.46	0.00
60	(62)	Angola	110 000	0.04	99.50	0.00
61	(57)	Algeria	106 200	0.04	99.54	0.00
62	(63)	Turkmenistan	100 000	0.03	99.57	0.00
63	(64)	El Salvador	100 000	0.03	99.61	0.00
64	(61)	New Zealand	100 000	0.03	99.64	0.00
65	(65)	Madagascar	80 000	0.03	99.67	0.00
66	(66)	Taiwan	78 539	0.03	99.70	0.00
67	(68)	Sri Lanka	68 834	0.02	99.72	0.00
68	(69)	Kuwait	67 000	0.02	99.75	0.00
69	(70)	Azerbaijan	66 699	0.02	99.77	0.00
70	(72)	Honduras	63 500	0.02	99.79	0.00



71	(87)	Norway	56 000	0.02	99.81	0.00
72	(73)	Nicaragua	50 000	0.02	99.83	0.00
73	(74)	Yemen	50 000	0.02	99.85	0.00
74	(67)	Afghanistan	47 944	0.02	99.86	0.00
75	(77)	Laos	46 863	0.02	99.88	0.00
76	(76)	Tajikistan	36 964	0.01	99.89	0.00
77	(60)	Tanzania	36 600	0.01	99.91	0.00
78	(80)	Albania	31 500	0.01	99.92	0.00
79	(79)	Libya	30 000	0.01	99.93	0.00
80	(78)	Cambodia	30 000	0.01	99.94	0.00
81	(81)	Mozambique	27 729	0.01	99.95	0.00
82	(**)	Dominican Republic	25 000	0.01	99.96	0.00
83	(83)	Panama	17 281	0.01	99.96	0.00
84	(82)	Croatia	16 453	0.01	99.97	0.00
85	(75)	Kenya	12 419	0.00	99.97	0.00
86	(84)	Oman	11 537	0.00	99.98	0.00
87	(85)	Jamaica	10 000	0.00	99.98	0.00
88	(86)	Jordan	10 000	0.00	99.98	0.00
89	(88)	Serbia	7 811	0.00	99.99	0.00
90	(89)	Portugal	6 201	0.00	99.99	0.00
91	(90)	Kyrgyzstan	6 000	0.00	99.99	0.00
92	(93)	Bolivia	5 373	0.00	99.99	0.00
93	(92)	Iceland	5 000	0.00	99.99	0.00
94	(91)	Syria	5 000	0.00	100.00	0.00
95	(94)	Lebanon	3 000	0.00	100.00	0.00
96	(95)	Slovenia	2 018	0.00	100.00	0.00
97	(96)	Malta	1 600	0.00	100.00	0.00
98	(98)	Cape Verde	1 000	0.00	100.00	0.00
99	(97)	Mauritius	1 000	0.00	100.00	0.00
100	(99)	Mongolia	997	0.00	100.00	0.00
101	(100)	Benin	500	0.00	100.00	0.00
		Total	285 741 917	100.00		HHI 873

## Sulfur

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	13 762 700	17.27	17.27	298.18
2	( 2)	United States	9 680 000	12.15	29.41	147.51
3	( 3)	Russia	7 170 000	9.00	38.41	80.93
4	( 4)	Saudi Arabia	6 600 000	8.28	46.69	68.57
5	( 5)	Canada	5 333 000	6.69	53.38	44.77
6	( 6)	United Arab Emirates	5 300 000	6.65	60.03	44.22
7	( 8)	India	4 295 000	5.39	65.42	29.04
8	( 9)	Japan	3 277 400	4.11	69.53	16.91
9	( 7)	Kazakhstan	3 251 250	4.08	73.61	16.64
10	(10)	Iran	2 200 000	2.76	76.37	7.62
11	(12)	Korea, South	2 000 000	2.51	78.88	6.30
12	(11)	Qatar	1 767 000	2.22	81.10	4.92
13	(13)	Chile	1 738 100	2.18	83.28	4.76
14	(14)	Philippines	1 100 000	1.38	84.66	1.90
15	(16)	Australia	900 000	1.13	85.79	1.28
16	(15)	Finland	888 300	1.11	86.90	1.24
17	(17)	Italy	809 900	1.02	87.92	1.03
18	(20)	Zambia	754 000	0.95	88.86	0.89
19	(18)	Venezuela	700 000	0.88	89.74	0.77

20	(22)	Kuwait	671 000	0.84	90.59	0.71
21	(21)	Spain	662 000	0.83	91.42	0.69
22	(19)	Poland	641 000	0.80	92.22	0.65
23	(25)	Peru	552 800	0.69	92.91	0.48
24	(26)	Brazil	530 000	0.66	93.58	0.44
25	(28)	Indonesia	500 000	0.63	94.21	0.39
26	(29)	France	500 000	0.63	94.83	0.39
27	(27)	Bulgaria	474 100	0.59	95.43	0.35
28	(32)	Turkmenistan	450 000	0.56	95.99	0.32
29	(23)	Mexico	442 657	0.56	96.55	0.31
30	(24)	Germany	419 597	0.53	97.07	0.28
31	(31)	Greece	280 000	0.35	97.43	0.12
32	(41)	Turkey	250 000	0.31	97.74	0.10
33	(30)	South Africa	240 077	0.30	98.04	0.09
34	(33)	Ukraine	222 200	0.28	98.32	0.08
35	(34)	Taiwan	169 698	0.21	98.53	0.05
36	(42)	Colombia	155 641	0.20	98.73	0.04
37	(35)	Bahrain	139 368	0.17	98.90	0.03
38	(36)	Libya	133 000	0.17	99.07	0.03
39	(37)	United Kingdom	133 000	0.17	99.24	0.03
40	(38)	Jordan	130 000	0.16	99.40	0.03
41	(39)	Norway	120 000	0.15	99.55	0.02
42	(40)	Lithuania	93 960	0.12	99.67	0.01
43	(44)	Oman	84 990	0.11	99.77	0.01
44	(43)	Egypt	80 000	0.10	99.87	0.01
45	(45)	Iraq	40 000	0.05	99.93	0.00
46	(46)	Pakistan	22 040	0.03	99.95	0.00
47	(48)	Armenia	10 500	0.01	99.97	0.00
48	(47)	Korea, North	10 000	0.01	99.98	0.00
49	(49)	Austria	6 980	0.01	99.99	0.00
50	(50)	Algeria	6 000	0.01	99.99	0.00
51	(51)	Denmark	4 194	0.01	100.00	0.00
		Total	79 701 452	100.00		HHI 783

## Talc

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 000 000	25.37	25.37	643.53
2	( 2)	India	1 640 000	20.80	46.17	432.71
3	( 3)	United States	650 000	8.24	54.41	67.97
4	( 4)	Brazil	500 000	6.34	60.76	40.22
5	( 6)	France	450 000	5.71	66.46	32.58
6	( 9)	Finland	374 398	4.75	71.21	22.55
7	( 7)	Korea, South	348 794	4.42	75.64	19.57
8	( 5)	Turkey	284 216	3.60	79.24	13.00
9	(10)	Canada	279 000	3.54	82.78	12.52
10	(11)	Italy	165 000	2.09	84.87	4.38
11	( 8)	Japan	160 000	2.03	86.90	4.12
12	(13)	Russia	150 000	1.90	88.81	3.62
13	(12)	Pakistan	141 504	1.79	90.60	3.22
14	(14)	Austria	127 866	1.62	92.22	2.63
15	(15)	Australia	120 000	1.52	93.74	2.32
16	(18)	South Africa	102 142	1.30	95.04	1.68
17	(16)	Iran	73 259	0.93	95.97	0.86
18	(17)	Thailand	58 676	0.74	96.71	0.55

19	(20)	Peru	47 309	0.60	97.31	0.36
20	(19)	Saudi Arabia	46 000	0.58	97.90	0.34
21	(24)	Slovakia	43 000	0.55	98.44	0.30
22	(21)	Korea, North	40 000	0.51	98.95	0.26
23	(23)	Egypt	15 000	0.19	99.14	0.04
24	(22)	Argentina	13 072	0.17	99.31	0.03
25	(26)	Spain	12 000	0.15	99.46	0.02
26	(25)	Portugal	10 144	0.13	99.59	0.02
27	(28)	Nepal	8 557	0.11	99.70	0.01
28	(27)	Mexico	8 448	0.11	99.80	0.01
29	(29)	Sudan	4 000	0.05	99.85	0.00
30	(30)	United Kingdom	3 700	0.05	99.90	0.00
31	(32)	Nigeria	2 668	0.03	99.93	0.00
32	(31)	Guatemala	2 187	0.03	99.96	0.00
33	(33)	Bhutan	2 042	0.03	99.99	0.00
34	(34)	North Macedonia	559	0.01	99.99	0.00
35	(35)	Uruguay	420	0.01	100.00	0.00
36	(**)	Taiwan	17	0.00	100.00	0.00
Total			7 883 978	100.00		HHI 1 309

## Vermiculite

Rank 2018	Rank 2017	Co untry	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	141 346	32.69	32.69	1 068.55
2	( 2)	United States	100 000	23.13	55.82	534.84
3	( 4)	China	50 000	11.56	67.38	133.71
4	( 3)	Brazil	50 000	11.56	78.94	133.71
5	( 5)	Zimbabwe	33 161	7.67	86.61	58.81
6	( 6)	Russia	25 904	5.99	92.60	35.89
7	( 9)	Turkey	18 183	4.21	96.81	17.68
8	( 8)	Uganda	10 413	2.41	99.22	5.80
9	( 7)	India	3 150	0.73	99.94	0.53
10	(10)	Mexico	244	0.06	100.00	0.00
Total			432 401	100.00		HHI 1 990

## Zircon

Rank 2018	Rank 2017	Co untry	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	618 000	40.00	40.00	1 600.11
2	( 2)	South Africa	303 610	19.65	59.65	386.19
3	( 3)	China	150 000	9.71	69.36	94.27
4	( 6)	United States	100 000	6.47	75.84	41.90
5	( 4)	Senegal	93 569	6.06	81.89	36.68
6	( 5)	Mozambique	74 700	4.84	86.73	23.38
7	( 8)	Indonesia	53 700	3.48	90.20	12.08
8	( 7)	Kenya	36 387	2.36	92.56	5.55
9	(10)	Madagascar	22 400	1.45	94.01	2.10
10	(11)	Brazil	22 000	1.42	95.43	2.03

11	( 9)	Ukraine	21 614	1.40	96.83	1.96
12	(12)	India	15 000	0.97	97.80	0.94
13	(17)	Sierra Leone	11 400	0.74	98.54	0.54
14	(15)	Vietnam	10 500	0.68	99.22	0.46
15	(14)	Russia	7 400	0.48	99.70	0.23
16	(19)	Turkey	1 950	0.13	99.82	0.02
17	(16)	Nigeria	1 421	0.09	99.92	0.01
18	(13)	Sri Lanka	785	0.05	99.97	0.00
19	(18)	Malaysia	509	0.03	100.00	0.00
		Total	1 544 945	100.00		HHI 2 208

## 6.5.5 Mineral Fuels

### Steam Coal

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 813 668 400	48.58	48.58	2 360.05
2	( 2)	India	687 586 000	11.87	60.45	140.94
3	( 3)	United States	561 096 000	9.69	70.14	93.85
4	( 4)	Indonesia	557 772 940	9.63	79.77	92.74
5	( 7)	Russia	260 554 200	4.50	84.27	20.24
6	( 6)	Australia	257 827 000	4.45	88.72	19.82
7	( 5)	South Africa	254 236 000	4.39	93.11	19.27
8	( 8)	Kazakhstan	101 085 800	1.75	94.86	3.05
9	( 9)	Colombia	78 384 020	1.35	96.21	1.83
10	(10)	Poland	42 757 000	0.74	96.95	0.54
11	(11)	Vietnam	42 047 000	0.73	97.67	0.53
12	(14)	Ukraine	21 648 100	0.37	98.05	0.14
13	(12)	Canada	19 500 000	0.34	98.38	0.11
14	(13)	Korea, North	16 899 000	0.29	98.68	0.09
15	(15)	Philippines	13 055 840	0.23	98.90	0.05
16	(17)	Mongolia	10 628 200	0.18	99.08	0.03
17	(18)	Mozambique	6 891 201	0.12	99.20	0.01
18	(16)	Mexico	6 772 528	0.12	99.32	0.01
19	(19)	Pakistan	4 477 555	0.08	99.40	0.01
20	(20)	Brazil	3 568 760	0.06	99.46	0.00
21	(24)	Zimbabwe	2 835 500	0.05	99.51	0.00
22	(22)	Malaysia	2 652 814	0.05	99.55	0.00
23	(21)	United Kingdom	2 547 930	0.04	99.60	0.00
24	(26)	Botswana	2 482 313	0.04	99.64	0.00
25	(27)	Afghanistan	2 444 600	0.04	99.68	0.00
26	(23)	Chile	2 294 677	0.04	99.72	0.00
27	(25)	Czech Republic	2 092 400	0.04	99.76	0.00
28	(29)	Tajikistan	1 907 055	0.03	99.79	0.00
29	(28)	Turkey	1 856 000	0.03	99.82	0.00
30	(32)	New Zealand	1 689 400	0.03	99.85	0.00
31	(31)	Germany	1 260 000	0.02	99.87	0.00
32	(30)	Korea, South	1 201 920	0.02	99.90	0.00
33	(34)	Bangladesh	923 276	0.02	99.91	0.00
34	(35)	Venezuela	750 000	0.01	99.92	0.00
35	(33)	Spain	645 612	0.01	99.94	0.00
36	(37)	Tanzania	627 652	0.01	99.95	0.00

37	(47)	Iran	400 000	0.01	99.95	0.00
38	(38)	Nigeria	352 679	0.01	99.96	0.00
39	(43)	Zambia	344 717	0.01	99.97	0.00
40	(36)	Myanmar	316 000	0.01	99.97	0.00
41	(41)	Kyrgyzstan	274 800	0.00	99.98	0.00
42	(42)	Niger	221 580	0.00	99.98	0.00
43	(39)	Peru	218 787	0.00	99.98	0.00
44	(45)	Bhutan	186 824	0.00	99.99	0.00
45	(46)	Uzbekistan	160 000	0.00	99.99	0.00
46	(48)	Norway	154 200	0.00	99.99	0.00
47	(44)	Eswatini	144 375	0.00	99.99	0.00
48	(49)	Laos	142 994	0.00	100.00	0.00
49	(40)	Georgia	137 900	0.00	100.00	0.00
50	(51)	Malawi	49 753	0.00	100.00	0.00
51	(53)	Nepal	11 522	0.00	100.00	0.00
		Total	5 791 782 824	100.00		HHI 2 753

## Coking Coal

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	523 713 600	50.73	50.73	2 573.65
2	( 2)	Australia	179 350 000	17.37	68.10	301.83
3	( 3)	Russia	91 600 000	8.87	76.98	78.73
4	( 4)	United States	71 947 000	6.97	83.95	48.57
5	( 5)	India	41 132 000	3.98	87.93	15.88
6	( 7)	Mongolia	27 417 000	2.66	90.59	7.05
7	( 6)	Canada	27 361 000	2.65	93.24	7.02
8	( 9)	Poland	17 890 000	1.73	94.97	3.00
9	( 8)	Kazakhstan	10 836 000	1.05	96.02	1.10
10	(10)	Mozambique	8 355 292	0.81	96.83	0.66
11	(11)	Colombia	5 899 870	0.57	97.40	0.33
12	(14)	Indonesia	5 578 000	0.54	97.94	0.29
13	(13)	Mexico	4 735 000	0.46	98.40	0.21
14	(12)	Ukraine	4 606 300	0.45	98.85	0.20
15	(15)	South Africa	4 430 000	0.43	99.28	0.18
16	(16)	Czech Republic	2 017 600	0.20	99.47	0.04
17	(18)	Iran	1 650 000	0.16	99.63	0.03
18	(17)	Germany	1 323 600	0.13	99.76	0.02
19	(19)	New Zealand	1 213 400	0.12	99.88	0.01
20	(20)	Turkey	731 000	0.07	99.95	0.01
21	(21)	Zimbabwe	512 000	0.05	100.00	0.00
22	(22)	United Kingdom	32 950	0.00	100.00	0.00
		Total	1 032 331 612	100.00		HHI 3 039

## Lignite

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Germany	166 258 000	20.57	20.57	423.20
2	( 3)	Turkey	86 668 000	10.72	31.30	115.00
3	( 2)	Russia	80 500 000	9.96	41.26	99.21
4	( 4)	Poland	61 144 000	7.57	48.82	57.24
5	( 5)	United States	51 744 500	6.40	55.22	40.99
6	( 6)	Australia	45 956 000	5.69	60.91	32.33
7	( 7)	India	44 283 000	5.48	66.39	30.02
8	( 9)	Czech Republic	39 187 000	4.85	71.24	23.51
9	( 8)	Serbia	37 652 520	4.66	75.90	21.71
10	(10)	Greece	36 574 360	4.53	80.42	20.48
11	(11)	Bulgaria	31 813 678	3.94	84.36	15.50
12	(12)	Romania	23 647 150	2.93	87.29	8.56
13	(15)	Laos	15 903 277	1.97	89.25	3.87
14	(13)	Thailand	14 851 950	1.84	91.09	3.38
15	(14)	Bosnia-Herzegovina	14 378 767	1.78	92.87	3.17
16	(17)	Hungary	7 896 606	0.98	93.85	0.95
17	(16)	Canada	7 739 000	0.96	94.81	0.92
18	(18)	Kosovo	7 169 767	0.89	95.69	0.79
19	(19)	Mongolia	6 952 800	0.86	96.55	0.74
20	(20)	Kazakhstan	6 560 700	0.81	97.36	0.66
21	(21)	North Macedonia	4 946 486	0.61	97.98	0.37
22	(22)	Uzbekistan	4 014 400	0.50	98.47	0.25
23	(23)	Slovenia	3 216 735	0.40	98.87	0.16
24	(26)	Kyrgyzstan	2 031 600	0.25	99.12	0.06
25	(25)	Spain	1 727 513	0.21	99.34	0.05
26	(28)	Montenegro	1 595 900	0.20	99.53	0.04
27	(24)	Slovakia	1 506 940	0.19	99.72	0.03
28	(27)	Brazil	1 422 500	0.18	99.90	0.03
29	(29)	New Zealand	307 378	0.04	99.93	0.00
30	(30)	Albania	295 800	0.04	99.97	0.00
31	(31)	Myanmar	233 000	0.03	100.00	0.00
		Total	808 179 327	100.00		HHI 903

## Natural Gas

Rank 2018	Rank 2017	Co un try	Production 2018 Mio m <sup>3</sup>	Share in %	Share cum. %	Share HHI
1	( 1)	United States	866 180	21.88	21.88	478.55
2	( 2)	Russia	711 300	17.96	39.84	322.71
3	( 3)	Iran	239 486	6.05	45.89	36.58
4	( 4)	Qatar	170 934	4.32	50.21	18.64
5	( 5)	Canada	168 888	4.27	54.47	18.19
6	( 6)	China	160 265	4.05	58.52	16.38
7	( 9)	Australia	130 987	3.31	61.83	10.94
8	( 7)	Norway	122 203	3.09	64.91	9.53
9	( 8)	Saudi Arabia	118 000	2.98	67.89	8.88
10	(10)	Algeria	97 467	2.46	70.35	6.06
11	(11)	Indonesia	72 570	1.83	72.19	3.36
12	(12)	Turkmenistan	70 000	1.77	73.96	3.13
13	(13)	Malaysia	66 735	1.69	75.64	2.84

14	(14)	United Arab Emirates	64 680	1.63	77.27	2.67
15	(15)	Uzbekistan	59 842	1.51	78.79	2.28
16	(17)	Egypt	58 560	1.48	80.26	2.19
17	(16)	Nigeria	50 810	1.28	81.55	1.65
18	(20)	Pakistan	41 313	1.04	82.59	1.09
19	(19)	United Kingdom	41 022	1.04	83.63	1.07
20	(21)	Argentina	40 930	1.03	84.66	1.07
21	(24)	Trinidad and Tobago	37 501	0.95	85.61	0.90
22	(18)	Netherlands	36 707	0.93	86.53	0.86
23	(23)	Thailand	36 454	0.92	87.46	0.85
24	(27)	Kazakhstan	36 350	0.92	88.37	0.84
25	(25)	Oman	35 545	0.90	89.27	0.81
26	(22)	Venezuela	33 230	0.84	90.11	0.70
27	(26)	India	32 058	0.81	90.92	0.66
28	(30)	Bangladesh	27 430	0.69	91.61	0.48
29	(28)	Mexico	26 870	0.68	92.29	0.46
30	(29)	Brazil	26 687	0.67	92.97	0.45
31	(32)	Ukraine	20 806	0.53	93.49	0.28
32	(31)	Bolivia	19 341	0.49	93.98	0.24
33	(34)	Azerbaijan	19 207	0.49	94.46	0.24
34	(35)	Kuwait	17 738	0.45	94.91	0.20
35	(33)	Myanmar	16 040	0.41	95.32	0.16
36	(36)	Bahrain	15 420	0.39	95.71	0.15
37	(41)	Iraq	12 990	0.33	96.04	0.11
38	(37)	Peru	12 721	0.32	96.36	0.10
39	(39)	Colombia	11 590	0.29	96.65	0.09
40	(38)	Brunei	11 485	0.29	96.94	0.08
41	(43)	Israel	10 500	0.27	97.20	0.07
42	(40)	Romania	10 278	0.26	97.46	0.07
43	(42)	Vietnam	10 010	0.25	97.72	0.06
44	(44)	Libya	9 800	0.25	97.96	0.06
45	(46)	Equatorial Guinea	7 750	0.20	98.16	0.04
46	(45)	Germany	6 888	0.17	98.33	0.03
47	(47)	Angola	6 190	0.16	98.49	0.02
48	(48)	Italy	5 448	0.14	98.63	0.02
49	(49)	Mozambique	5 140	0.13	98.76	0.02
50	(50)	Poland	4 926	0.12	98.88	0.02
51	(53)	Philippines	4 270	0.11	98.99	0.01
52	(52)	New Zealand	4 161	0.11	99.09	0.01
53	(51)	Denmark	4 148	0.10	99.20	0.01
54	(54)	Syria	3 490	0.09	99.29	0.01
55	(56)	Ireland	3 060	0.08	99.37	0.01
56	(55)	Papua New Guinea	2 914	0.07	99.44	0.01
57	(57)	Japan	2 707	0.07	99.51	0.00
58	(59)	Tunisia	1 950	0.05	99.56	0.00
59	(58)	Cote d'Ivoire	1 935	0.05	99.61	0.00
60	(61)	Hungary	1 710	0.04	99.65	0.00
61	(63)	Tanzania	1 675	0.04	99.69	0.00
62	(73)	Cameroon	1 460	0.04	99.73	0.00
63	(62)	Croatia	1 230	0.03	99.76	0.00
64	(64)	Chile	1 221	0.03	99.79	0.00
65	(65)	Cuba	970	0.02	99.81	0.00
66	(60)	Austria	969	0.02	99.84	0.00
67	(66)	Ghana	910	0.02	99.86	0.00
68	(67)	Congo, Rep.	867	0.02	99.88	0.00
69	(68)	South Africa	615	0.02	99.90	0.00
70	(69)	Yemen	600	0.02	99.91	0.00
71	(70)	Gabon	511	0.01	99.93	0.00
72	(71)	Serbia	450	0.01	99.94	0.00
73	(74)	Turkey	436	0.01	99.95	0.00
74	(72)	Ecuador	349	0.01	99.96	0.00
75	(75)	Korea, South	293	0.01	99.97	0.00

76	(77)	Belarus	211	0.01	99.97	0.00
77	(76)	Taiwan	198	0.01	99.98	0.00
78	(78)	Czech Republic	179	0.00	99.98	0.00
79	(79)	Afghanistan	153	0.00	99.98	0.00
80	(80)	Jordan	93	0.00	99.99	0.00
81	(86)	Spain	90	0.00	99.99	0.00
82	(82)	Slovakia	90	0.00	99.99	0.00
83	(83)	Morocco	87	0.00	99.99	0.00
84	(81)	Albania	82	0.00	100.00	0.00
85	(85)	France	70	0.00	100.00	0.00
86	(87)	Kyrgyzstan	27	0.00	100.00	0.00
87	(84)	Bulgaria	22	0.00	100.00	0.00
88	(90)	Slovenia	18	0.00	100.00	0.00
89	(89)	Barbados	14	0.00	100.00	0.00
90	(92)	Greece	12	0.00	100.00	0.00
91	(88)	Senegal	11	0.00	100.00	0.00
92	(91)	Georgia	10	0.00	100.00	0.00
93	(93)	Tajikistan	1	0.00	100.00	0.00
Total			3 959 541	100.00		HHI 957

## Petroleum

Rank 2018	Rank 2017	Country	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	669 373 700	15.25	15.25	232.62
2	( 2)	Saudi Arabia	578 336 010	13.18	28.43	173.65
3	( 3)	Russia	555 833 900	12.66	41.09	160.40
4	( 6)	Canada	229 292 200	5.22	46.32	27.30
5	( 5)	Iraq	226 147 090	5.15	51.47	26.55
6	( 4)	Iran	220 373 060	5.02	56.49	25.21
7	( 7)	China	189 105 600	4.31	60.80	18.57
8	( 8)	United Arab Emirates	177 695 950	4.05	64.85	16.39
9	(10)	Kuwait	136 282 700	3.11	67.96	9.64
10	( 9)	Brazil	134 122 000	3.06	71.01	9.34
11	(11)	Mexico	101 589 830	2.31	73.33	5.36
12	(13)	Nigeria	95 675 000	2.18	75.51	4.75
13	(15)	Kazakhstan	90 359 500	2.06	77.57	4.24
14	(14)	Norway	84 183 200	1.92	79.48	3.68
15	(12)	Venezuela	77 339 900	1.76	81.25	3.11
16	(17)	Qatar	76 977 200	1.75	83.00	3.08
17	(16)	Angola	71 347 100	1.63	84.63	2.64
18	(18)	Algeria	65 331 000	1.49	86.11	2.22
19	(20)	United Kingdom	51 245 500	1.17	87.28	1.36
20	(19)	Oman	48 710 000	1.11	88.39	1.23
21	(21)	Libya	47 544 760	1.08	89.48	1.17
22	(22)	Colombia	43 088 900	0.98	90.46	0.96
23	(24)	Azerbaijan	38 814 300	0.88	91.34	0.78
24	(23)	Indonesia	38 441 100	0.88	92.22	0.77
25	(25)	India	34 203 300	0.78	93.00	0.61
26	(27)	Egypt	32 701 930	0.75	93.74	0.56
27	(26)	Malaysia	32 201 300	0.73	94.48	0.54
28	(28)	Ecuador	25 754 000	0.59	95.06	0.34
29	(29)	Argentina	24 369 900	0.56	95.62	0.31
30	(30)	Australia	17 393 890	0.40	96.01	0.16
31	(32)	Congo, Rep.	16 740 500	0.38	96.40	0.15
32	(31)	Vietnam	13 969 000	0.32	96.71	0.10



33	(33)	Thailand	11 361 670	0.26	96.97	0.07
34	(34)	Turkmenistan	10 603 000	0.24	97.21	0.06
35	(35)	Gabon	9 646 000	0.22	97.43	0.05
36	(37)	Ghana	8 876 500	0.20	97.64	0.04
37	(36)	Equatorial Guinea	7 884 840	0.18	97.82	0.03
38	(39)	Peru	6 688 500	0.15	97.97	0.02
39	(42)	South Sudan	6 438 800	0.15	98.11	0.02
40	(40)	Chad	6 347 000	0.14	98.26	0.02
41	(38)	Denmark	5 665 787	0.13	98.39	0.02
42	(41)	Brunei	5 397 900	0.12	98.51	0.02
43	(44)	Italy	4 684 200	0.11	98.62	0.01
44	(43)	Pakistan	4 441 610	0.10	98.72	0.01
45	(45)	Sudan	3 832 800	0.09	98.81	0.01
46	(47)	Romania	3 577 000	0.08	98.89	0.01
47	(46)	Cameroon	3 428 100	0.08	98.97	0.01
48	(48)	Trinidad and Tobago	3 165 790	0.07	99.04	0.01
49	(49)	Uzbekistan	2 890 000	0.07	99.10	0.00
50	(52)	Turkey	2 850 828	0.06	99.17	0.00
51	(50)	Bolivia	2 534 273	0.06	99.23	0.00
52	(53)	Cuba	2 500 000	0.06	99.28	0.00
53	(56)	Ukraine	2 293 300	0.05	99.34	0.00
54	(55)	Bahrain	2 097 000	0.05	99.38	0.00
55	(54)	Germany	2 066 643	0.05	99.43	0.00
56	(57)	Tunisia	2 027 230	0.05	99.48	0.00
57	(51)	Papua New Guinea	1 898 700	0.04	99.52	0.00
58	(59)	Belarus	1 670 000	0.04	99.56	0.00
59	(58)	Cote d'Ivoire	1 607 400	0.04	99.60	0.00
60	(65)	Yemen	1 238 000	0.03	99.62	0.00
61	(64)	Congo, D.R.	1 144 760	0.03	99.65	0.00
62	(61)	Netherlands	1 129 300	0.03	99.68	0.00
63	(60)	New Zealand	1 085 650	0.02	99.70	0.00
64	(62)	Syria	1 050 900	0.02	99.72	0.00
65	(67)	Poland	937 040	0.02	99.75	0.00
66	(68)	Serbia	910 712	0.02	99.77	0.00
67	(66)	Albania	910 670	0.02	99.79	0.00
68	(63)	Mongolia	871 500	0.02	99.81	0.00
69	(69)	Niger	827 300	0.02	99.83	0.00
70	(70)	Suriname	818 400	0.02	99.84	0.00
71	(75)	Hungary	808 000	0.02	99.86	0.00
72	(71)	France	776 000	0.02	99.88	0.00
73	(73)	Croatia	732 100	0.02	99.90	0.00
74	(72)	Philippines	726 300	0.02	99.91	0.00
75	(74)	Austria	681 842	0.02	99.93	0.00
76	(76)	Bangladesh	589 650	0.01	99.94	0.00
77	(77)	Myanmar	480 500	0.01	99.95	0.00
78	(79)	Guatemala	458 800	0.01	99.96	0.00
79	(78)	Japan	449 000	0.01	99.97	0.00
80	(83)	Greece	201 786	0.00	99.98	0.00
81	(81)	Kyrgyzstan	200 000	0.00	99.98	0.00
82	(80)	Chile	160 330	0.00	99.99	0.00
83	(85)	Czech Republic	109 000	0.00	99.99	0.00
84	(84)	Spain	86 991	0.00	99.99	0.00
85	(86)	Israel	74 475	0.00	99.99	0.00
86	(88)	Mozambique	56 690	0.00	99.99	0.00
87	(87)	Lithuania	46 030	0.00	100.00	0.00
88	(90)	Georgia	30 200	0.00	100.00	0.00
89	(89)	Barbados	29 970	0.00	100.00	0.00
90	(92)	Korea, South	25 780	0.00	100.00	0.00
91	(93)	Tajikistan	23 939	0.00	100.00	0.00
92	(91)	South Africa	23 770	0.00	100.00	0.00
93	(94)	Bulgaria	20 600	0.00	100.00	0.00
94	(95)	Senegal	20 300	0.00	100.00	0.00

95	(96)	Slovakia	7 522	0.00	100.00	0.00
96	(97)	Morocco	4 840	0.00	100.00	0.00
97	(98)	Taiwan	4 000	0.00	100.00	0.00
98	(100)	Jordan	1 000	0.00	100.00	0.00
99	(99)	Slovenia	769	0.00	100.00	0.00
Total			4 388 772 607	100.00		HHI 738

### Oil Sands (part of Petroleum)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Canada	145 081 000	87.88	87.88	7 723.73
2	( 2)	Venezuela	20 000 000	12.12	100.00	146.78
Total			165 081 000	100.00		HHI 7 871

### Oil Shales

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Estonia	21 883 000	96.00	96.00	9 216.36
2	( 2)	Germany	494 650	2.17	98.17	4.71
3	( 3)	Israel	414 550	1.82	99.99	3.31
4	( 4)	France	2 000	0.01	100.00	0.00
5	( 5)	Austria	150	0.00	100.00	0.00
Total			22 794 350	100.00		HHI 9 224

### Uranium (U<sub>3</sub>O<sub>8</sub>)

Rank 2018	Rank 2017	Co un try	Production 2018 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Kazakhstan	25 595	39.19	39.19	1 535.95
2	( 2)	Canada	8 225	12.59	51.79	158.61
3	( 3)	Australia	6 924	10.60	62.39	112.40
4	( 4)	Namibia	6 514	9.97	72.36	99.49
5	( 6)	Uzbekistan	6 100	9.34	81.70	87.24
6	( 5)	Niger	3 433	5.26	86.96	27.63
7	( 7)	Russia	3 424	5.24	92.20	27.49
8	( 8)	China	2 223	3.40	95.61	11.59
9	(10)	Ukraine	1 390	2.13	97.73	4.53
10	( 9)	United States	657	1.01	98.74	1.01

11	(11)	India	499	0.76	99.50	0.58
12	(12)	South Africa	231	0.35	99.86	0.13
13	(14)	Pakistan	53	0.08	99.94	0.01
14	(13)	Czech Republic	40	0.06	100.00	0.00
		Total	65 308	100.00		HHI 2 067

## 6.6 Production of Mineral Raw Materials of individual Countries, by Countries

### Afghanistan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	2 200	2 500	2 000	2 000	2 000	-9.09	0.00
Fluorspar	(t)	4 108	5 500	7 624	7 522	10 000	143.43	32.94
Gypsum	(t)	57 000	57 000	57 000	40 000	36 161	-36.56	-9.60
Salt	(t)	87 014	88 183	56 928	75 579	47 944	-44.90	-36.56
Steam Coal	(t)	1 517 400	1 364 800	1 698 200	2 191 400	2 444 600	61.10	11.55
Nat. Gas	(Mio m <sup>3</sup> )	142	146	165	156	153	7.75	-1.92
Total	(t)	1 781 322	1 634 783	1 953 752	2 441 301	2 663 105		

### Albania

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	309 900	284 100	317 500	351 500	497 100	60.41	41.42
Nickel	(t)	5 350	7 460	4 400	5 760	4 050	-24.30	-29.69
Copper	(t)	3 690	2 190	2 020	0	3 780	2.44	.
Gypsum	(t)	108 733	86 163	131 924	104 120	102 016	-6.18	-2.02
Salt	(t)	24 700	22 100	15 500	25 500	31 500	27.53	23.53
Lignite	(t)	0	276 000	16 800	138 800	295 800	.	113.11
Nat. Gas	(Mio m <sup>3</sup> )	31	34	88	91	82	164.52	-9.89
Petroleum	(t)	1 368 200	1 279 220	1 055 730	958 940	910 670	-33.44	-5.03
Total	(t)	1 845 373	1 984 433	1 614 274	1 657 420	1 910 516		

### Algeria

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	492 010	509 800	328 300	268 400	381 200	-22.52	42.03
Zinc	(t)	0	50	330	350	500	.	42.86
Gold	(kg)	85	106	102	137	286	236.47	108.76
Silver	(kg)	16	20	20	25	30	87.50	20.00
Baryte	(t)	56 829	32 020	39 980	29 159	39 426	-30.62	35.21
Bentonite	(t)	31 510	34 400	37 100	35 600	36 000	14.25	1.12
Diatomite	(t)	2 426	2 360	2 535	2 439	2 468	1.73	1.19

Abbreviations: see Explanation

Feldspar	(t)	230 372	154 500	168 000	170 000	170 000	-26.21	0.00
Gypsum	(t)	2 130 459	2 207 000	2 200 000	2 200 000	2 200 000	3.26	0.00
Kaolin	(t)	181 068	51 000	96 000	100 000	100 000	-44.77	0.00
Phosphates	(t)	482 100	438 200	433 200	378 100	409 400	-15.08	8.28
Salt	(t)	192 982	175 500	158 000	165 000	106 200	-44.97	-35.64
Sulfur	(t)	5 800	5 000	6 000	6 000	6 000	3.45	0.00
Nat. Gas	(Mio m <sup>3</sup> )	83 296	84 583	94 953	96 599	97 467	17.01	0.90
Petroleum	(t)	68 582 000	67 064 000	68 417 000	66 667 000	65 331 000	-4.74	-2.00
Total	(t)	139 024 356	138 340 230	147 848 845	147 301 248	146 755 794		

## Angola

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Diam. (Gem)	(ct)	7 875 803	8 117 048	8 119 320	8 494 920	7 567 820	-3.91	-10.91
Diam. (Ind)	(ct)	875 089	901 894	902 147	943 880	840 870	-3.91	-10.91
Gypsum	(t)	328 130	127 910	0	32 000	32 000	-90.25	0.00
Salt	(t)	45 000	47 845	93 000	101 000	110 000	144.44	8.91
Nat. Gas	(Mio m <sup>3</sup> )	720	770	1 710	5 800	6 190	759.72	6.72
Petroleum	(t)	84 104 000	89 457 000	85 152 000	78 608 000	71 347 100	-15.17	-9.24
Total	(t)	85 053 132	90 248 757	86 613 002	83 381 002	76 441 102		

## Argentina

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	224 840	206 060	107 280	28 400	40 560	-81.96	42.82
Molybdenum	(t)	954	869	479	651	364	-61.84	-44.09
Aluminium	(t)	441 703	428 206	424 785	428 238	435 837	-1.33	1.77
Cadmium	(t)	115	107	91	96	74	-35.65	-22.92
Copper	(t)	97 556	61 765	81 902	33 303	17 435	-82.13	-47.65
Lead	(t)	29 911	29 834	28 016	40 135	28 260	-5.52	-29.59
Lithium	(t)	7 390	7 860	12 200	12 360	13 810	86.87	11.73
Mercury	(t)	52	59	135	54	50	-3.85	-7.41
Zinc	(t)	28 038	30 498	22 792	23 392	22 050	-21.36	-5.74
Gold	(kg)	60 170	63 231	56 967	60 956	58 375	-2.98	-4.23
Silver	(kg)	989 950	1 175 246	1 055 700	997 961	1 023 768	3.42	2.59
Asbestos	(t)	0	130	0	26	0	.	-100.00
Baryte	(t)	16 265	12 917	12 389	15 553	7 225	-55.58	-53.55
Bentonite	(t)	280 407	229 715	145 723	156 750	184 969	-34.04	18.00
Boron	(t)	395 058	248 683	148 390	129 918	71 212	-81.97	-45.19
Diatomite	(t)	190 039	60 951	57 113	70 419	72 490	-61.86	2.94
Feldspar	(t)	162 854	186 974	155 217	154 770	124 500	-23.55	-19.56
Fluorspar	(t)	39 433	65 282	14 222	13 696	7 924	-79.91	-42.14
Graphite	(t)	900	900	0	0	0	-100.00	.
Gypsum	(t)	1 560 960	1 314 655	1 558 390	1 275 608	897 217	-42.52	-29.66
Kaolin	(t)	45 892	62 214	26 198	19 940	17 000	-62.96	-14.74
Perlite	(t)	22 680	23 282	17 905	19 924	18 794	-17.13	-5.67

**Abbreviations:** see Explanation

Salt	(t)	1 537 605	1 400 777	1 812 285	1 929 065	1 784 020	16.03	-7.52
Talc	(t)	47 442	33 774	16 266	15 330	13 072	-72.45	-14.73
Vermiculite	(t)	90	90	60	0	0	-100.00	.
Steam Coal	(t)	173 848	48 764	40 597	37 713	0	-100.00	-100.00
Nat. Gas (Mio m <sup>3</sup> )		37 830	39 190	40 760	39 740	40 930	8.19	2.99
Petroleum	(t)	26 492 600	26 508 000	25 487 500	23 879 000	24 369 900	-8.01	2.06
Total	(t)	62 061 682	62 315 604	62 779 048	60 077 400	60 871 845		

## Armenia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Molybdenum	(t)	5 796	5 131	5 771	5 038	5 422	-6.45	7.62
Bismuth	(t)	2	2	1	1	0	-100.00	-100.00
Cadmium	(t)	43	0	0	0	0	-100.00	.
Copper	(t)	46 849	51 765	95 080	95 793	68 928	47.13	-28.04
Rhenium	(kg)	351	104	405	375	405	15.38	8.00
Selenium	(t)	0	1	1	1	0	.	-100.00
Zinc	(t)	8 459	7 111	4 960	6 070	6 946	-17.89	14.43
Gold	(kg)	2 845	2 805	3 732	4 670	4 909	72.55	5.12
Silver	(kg)	18 374	18 350	14 100	17 200	16 700	-9.11	-2.91
Bentonite	(t)	3 640	9 228	13 956	24 712	0	-100.00	-100.00
Diatomite	(t)	20 439	18 915	25 486	23 465	0	-100.00	-100.00
Gypsum	(t)	22 317	19 400	14 831	14 336	20 387	-8.65	42.21
Perlite	(t)	84 904	57 657	44 820	14 036	51 222	-39.67	264.93
Salt	(t)	149 398	142 605	68 435	137 236	155 393	4.01	13.23
Sulfur	(t)	10 300	10 400	8 500	8 100	10 500	1.94	29.63
Total	(t)	352 168	322 236	281 859	328 810	318 820		

## Australia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	457 409 154	500 993 637	531 075 350	548 297 062	562 136 693	22.90	2.52
Chromium	(t)	10 519	0	0	0	0	-100.00	.
Cobalt	(t)	6 252	5 930	5 183	5 034	4 878	-21.98	-3.10
Manganese	(t)	3 454 430	3 250 300	2 388 500	2 879 010	3 514 320	1.73	22.07
Molybdenum	(t)	28	0	0	0	0	-100.00	.
Nickel	(t)	266 181	225 227	203 135	185 466	160 878	-39.56	-13.26
Tantalum	(t)	0	20	10	20	30	.	50.00
Titanium	(t)	997 000	1 053 300	1 070 000	993 000	875 250	-12.21	-11.86
Tungsten	(t)	477	348	108	5	0	-100.00	-100.00
Aluminium	(t)	1 704 991	1 645 963	1 633 904	1 487 555	1 574 240	-7.67	5.83
Antimony	(t)	3 828	4 213	4 285	4 610	3 570	-6.74	-22.56
Bauxite	(t)	78 630 996	80 909 261	83 517 148	89 420 589	95 947 593	22.02	7.30
Copper	(t)	978 534	995 881	947 555	849 121	913 336	-6.66	7.56
Lead	(t)	727 954	653 488	441 338	392 858	431 552	-40.72	9.85
Lithium	(t)	22 200	24 140	29 640	98 260	114 920	417.66	16.96

Abbreviations: see Explanation

Rare Earths	(t)	7 191	10 916	13 872	17 264	18 556	158.04	7.48
Tin	(t)	6 898	7 158	6 635	7 402	6 871	-0.39	-7.17
Zinc	(t)	1 505 968	1 610 004	884 826	852 164	1 111 841	-26.17	30.47
Gold	(kg)	271 856	277 372	290 767	292 022	313 028	15.14	7.19
Palladium	(kg)	613	425	610	610	430	-29.85	-29.51
Platinum	(kg)	153	108	152	155	110	-28.10	-29.03
Silver	(kg)	1 846 847	1 430 298	1 418 219	1 120 175	1 254 480	-32.07	11.99
Baryte	(t)	14 676	6 017	7 139	8 958	6 535	-55.47	-27.05
Bentonite	(t)	70 000	75 000	59 000	68 000	61 000	-12.86	-10.29
Diam. (Gem)	(ct)	185 760	271 220	279 160	342 690	280 160	50.82	-18.25
Diam. (Ind)	(ct)	9 102 360	13 289 580	13 678 840	16 792 040	13 727 890	50.82	-18.25
Diatomite	(t)	1 679	4 923	1 033	1 085	4	-99.76	-99.63
Feldspar	(t)	46 202	40 777	31 768	329	542	-98.83	64.74
Gypsum	(t)	3 672 100	3 715 200	3 664 700	3 381 670	4 343 922	18.30	28.45
Kaolin	(t)	169 904	153 365	222 229	192 150	173 738	2.26	-9.58
Magnesite	(t)	590 955	663 212	469 455	210 844	263 446	-55.42	24.95
Perlite	(t)	0	0	620	275	2 285	.	730.91
Phosphates	(t)	448 500	236 375	238 494	216 670	195 720	-56.36	-9.67
Salt	(t)	13 573 324	11 903 561	10 915 520	12 218 780	13 493 556	-0.59	10.43
Sulfur	(t)	900 000	900 000	900 000	900 000	900 000	0.00	0.00
Talc	(t)	120 000	80 000	111 000	120 000	120 000	0.00	0.00
Zircon	(t)	752 826	687 326	600 000	570 000	618 000	-17.91	8.42
Steam Coal	(t)	247 956 000	256 014 000	249 568 000	252 748 000	257 827 000	3.98	2.01
Coking Coal	(t)	180 295 000	191 056 000	189 302 000	190 000 000	179 350 000	-0.52	-5.61
Lignite	(t)	60 700 000	65 361 000	61 473 000	56 719 000	45 956 000	-24.29	-18.98
Nat. Gas (Mio m <sup>3</sup> )		67 335	76 791	97 328	113 805	130 987	94.53	15.10
Petroleum	(t)	20 990 930	18 463 390	17 292 880	16 630 520	17 393 890	-17.14	4.59
Uranium	(t)	6 014	6 668	7 352	6 302	6 924	15.13	9.87
Total	(t)	1 129 910 833	1 202 191 110	1 234 949 792	1 270 527 419	1 292 318 260		

## Austria

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	779 736	890 665	888 723	954 156	897 132	15.06	-5.98
Tungsten	(t)	819	861	954	975	936	14.29	-4.00
Feldspar	(t)	35 000	35 000	35 000	35 000	35 000	0.00	0.00
Graphite	(t)	150	150	150	150	150	0.00	0.00
Gypsum	(t)	729 892	715 195	674 346	712 469	836 862	14.66	17.46
Kaolin	(t)	14 343	12 894	13 558	13 500	13 500	-5.88	0.00
Magnesite	(t)	754 096	702 504	645 593	730 482	808 239	7.18	10.64
Salt	(t)	1 154 309	974 475	1 034 003	1 156 326	1 176 807	1.95	1.77
Sulfur	(t)	8 280	8 502	5 474	7 691	6 980	-15.70	-9.24
Talc	(t)	131 108	122 326	123 040	123 558	127 866	-2.47	3.49
Nat. Gas (Mio m <sup>3</sup> )		1 245	1 183	1 253	1 742	969	-22.17	-44.37
Oil Shales	(t)	203	68	169	170	150	-26.11	-11.76
Petroleum	(t)	944 832	905 931	809 189	741 890	681 842	-27.83	-8.09
Total	(t)	5 548 768	5 314 971	5 232 599	5 869 967	5 360 664		

Abbreviations: see Explanation

## Azerbaijan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	38 390	53 590	10 710	0	0	-100.00	.
Aluminium	(t)	50 400	53 300	36 800	28 500	45 390	-9.94	59.26
Copper	(t)	784	969	1 947	2 063	1 650	110.46	-20.02
Gold	(kg)	1 875	2 240	2 034	6 617	4 239	126.08	-35.94
Silver	(kg)	970	890	5 136	6 949	8 943	821.96	28.69
Bentonite	(t)	81 900	56 800	54 545	235 617	212 300	159.22	-9.90
Gypsum	(t)	222 700	196 500	155 800	85 100	9 145	-95.89	-89.25
Salt	(t)	35 156	39 461	63 931	66 968	66 699	89.72	-0.40
Nat. Gas	(Mio m <sup>3</sup> )	18 827	19 236	18 718	18 186	19 207	2.02	5.61
Petroleum	(t)	42 076 000	41 628 300	41 050 400	38 688 400	38 814 300	-7.75	0.33
Total	(t)	57 566 933	57 417 723	56 348 540	53 655 462	54 515 097		

## Bahamas

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	1 495 158	970 393	308 007	349 710	854 223	-42.87	144.27
Total	(t)	1 495 158	970 393	308 007	349 710	854 223		

## Bahrain

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	931 427	960 643	971 420	981 016	1 011 101	8.55	3.07
Sulfur	(t)	133 650	140 799	134 789	144 806	139 368	4.28	-3.76
Nat. Gas	(Mio m <sup>3</sup> )	15 400	15 350	15 200	15 230	15 420	0.13	1.25
Petroleum	(t)	2 428 600	2 518 200	2 422 200	2 202 200	2 097 000	-13.65	-4.78
Total	(t)	15 813 677	15 899 642	15 688 409	15 512 022	15 583 469		

## Bangladesh

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	1 627 000	1 282 000	1 620 000	1 660 000	1 490 000	-8.42	-10.24
Steam Coal	(t)	947 125	675 775	1 021 638	1 160 658	923 276	-2.52	-20.45
Nat. Gas	(Mio m <sup>3</sup> )	23 223	25 264	27 558	27 450	27 430	18.12	-0.07
Petroleum	(t)	321 000	417 400	559 240	592 650	589 650	83.69	-0.51
Total	(t)	21 473 525	22 586 375	25 247 278	25 373 308	24 946 926		

**Abbreviations:** see Explanation



## Barbados

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nat. Gas (Mio m <sup>3</sup> )		21	20	17	15	14	-33.33	-6.67
Petroleum	(t)	31 960	34 030	31 750	32 050	29 970	-6.23	-6.49
Total	(t)	48 760	50 030	45 350	44 050	41 170		

## Belarus

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Potash	(t)	6 340 000	6 467 900	6 180 100	7 101 800	7 346 096	15.87	3.44
Salt	(t)	1 800 000	2 050 000	2 480 000	2 629 000	2 904 097	61.34	10.46
Nat. Gas (Mio m <sup>3</sup> )		222	225	215	205	211	-4.95	2.93
Petroleum	(t)	1 645 000	1 645 000	1 645 000	1 650 000	1 670 000	1.52	1.21
Total	(t)	9 962 600	10 342 900	10 477 100	11 544 800	12 088 993		

## Belgium

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Arsenic	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Indium	(t)	25	20	20	20	20	-20.00	0.00
Selenium	(t)	200	200	200	200	200	0.00	0.00
Total	(t)	1 225	1 220	1 220	1 220	1 220		

## Benin

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	6	6	7	5	5	-16.67	0.00
Salt	(t)	1 000	500	500	500	500	-50.00	0.00
Total	(t)	1 000	500	500	500	500		

## Bhutan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	12 200	27 650	17 960	21 100	24 220	98.52	14.79
Gypsum	(t)	414 148	389 365	317 597	328 128	461 128	11.34	40.53
Talc	(t)	12 601	5 807	2 261	1 293	2 042	-83.79	57.93

**Abbreviations:** see Explanation

Steam Coal	(t)	121 891	85 164	117 783	161 527	186 824	53.27	15.66
Total	(t)	560 840	507 986	455 601	512 048	674 214		

## Bolivia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	10 690	14 180	1 710	22 230	41 560	288.77	86.95
Tantalum	(t)	7	1	0	3	18	157.14	500.00
Tungsten	(t)	1 251	1 461	1 109	1 015	1 366	9.19	34.58
Antimony	(t)	4 186	3 843	2 669	2 881	3 110	-25.70	7.95
Arsenic	(t)	52	38	38	20	238	357.69	1 090.00
Bismuth	(t)	11	20	57	8	39	254.55	387.50
Copper	(t)	10 746	9 479	8 718	7 219	5 216	-51.46	-27.75
Lead	(t)	75 572	75 273	89 906	113 286	112 140	48.39	-1.01
Lithium	(t)		0	10	20	10	.	-50.00
Tin	(t)	19 791	20 135	17 460	18 386	17 251	-12.83	-6.17
Zinc	(t)	448 970	442 154	486 955	527 206	519 630	15.74	-1.44
Gold	(kg)	24 803	19 770	22 545	28 726	31 599	27.40	10.00
Silver	(kg)	1 346 941	1 306 977	1 356 620	1 222 371	1 191 024	-11.58	-2.56
Baryte	(t)	26 240	46 732	16 632	29 114	53 163	102.60	82.60
Bentonite	(t)	886	1 023	525	68	2	-99.77	-97.06
Boron	(t)	151 799	148 738	182 685	208 388	216 403	42.56	3.85
Gypsum	(t)	1 464	650	1 182	473	1 136	-22.40	140.17
Salt	(t)	2 419	2 216	4 534	3 358	5 373	122.12	60.01
Nat. Gas	(Mio m <sup>3</sup> )	22 385	21 994	21 280	20 680	19 341	-13.60	-6.47
Petroleum	(t)	3 141 700	3 027 200	2 817 500	2 711 300	2 534 273	-19.33	-6.53
Total	(t)	21 805 156	21 389 670	20 657 070	20 190 226	18 984 951		

## Bosnia-Herzegovina

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	1 499 950	1 082 630	893 420	827 170	704 050	-53.06	-14.88
Manganese	(t)	14 176	3 200	1 000	0	0	-100.00	.
Aluminium	(t)	131 238	118 253	106 649	125 536	131 508	0.21	4.76
Bauxite	(t)	620 308	787 409	738 609	740 384	760 244	22.56	2.68
Lead	(t)	6 190	6 660	6 600	6 740	7 070	14.22	4.90
Zinc	(t)	8 180	8 840	8 840	9 180	9 350	14.30	1.85
Bentonite	(t)	80 952	67 261	102 858	92 344	87 358	7.91	-5.40
Gypsum	(t)	88 977	58 800	61 231	99 001	122 421	37.59	23.66

Kaolin	(t)	98 325	252 268	271 502	252 959	303 626	208.80	20.03
Magnesite	(t)	0	200	7 300	8 500	5 950	.	-30.00
Salt	(t)	819 327	869 750	966 177	1 029 302	1 063 458	29.80	3.32
Lignite	(t)	11 750 901	12 172 292	13 481 012	14 033 504	14 378 767	22.36	2.46
Total	(t)	15 118 524	15 427 563	16 645 198	17 224 620	17 573 802		

## Botswana

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Cobalt	(t)	196	316	281	0	0	-100.00	.
Nickel	(t)	14 958	16 789	16 878	0	0	-100.00	.
Copper	(t)	47 700	22 284	13 120	1 239	1 462	-96.94	18.00
Gold	(kg)	958	756	833	913	1 105	15.34	21.03
Palladium	(kg)	560	156	0	0	0	-100.00	.
Platinum	(kg)	124	31	0	0	0	-100.00	.
Silver	(kg)	22 328	2 800	0	0	0	-100.00	.
Diam. (Gem)	(ct)	17 260 600	14 576 800	14 623 700	16 058 700	17 064 600	-1.14	6.26
Diam. (Ind)	(ct)	7 397 400	6 247 200	6 267 300	6 882 300	7 313 400	-1.14	6.26
Salt	(t)	515 311	404 295	399 837	369 613	367 988	-28.59	-0.44
Steam Coal	(t)	1 711 555	2 065 778	1 870 939	2 215 782	2 482 313	45.03	12.03
Total	(t)	2 289 748	2 509 470	2 301 060	2 586 639	2 851 768		

## Brazil

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	261 101 100	275 607 200	267 983 700	289 089 904	293 110 000	12.26	1.39
Chromium	(t)	244 622	204 321	166 259	212 503	215 000	-12.11	1.18
Cobalt	(t)	3 828	2 771	852	185	4	-99.90	-97.84
Manganese	(t)	1 094 000	1 226 458	1 198 709	1 343 967	1 350 000	23.40	0.45
Nickel	(t)	85 600	89 302	78 626	68 803	74 400	-13.08	8.13
Niobium	(t)	88 771	80 465	80 669	83 166	83 000	-6.50	-0.20
Tantalum	(t)	313	268	125	100	150	-52.08	50.00
Titanium	(t)	46 445	45 330	37 660	48 000	38 000	-18.18	-20.83
Tungsten	(t)	677	432	323	400	300	-55.69	-25.00
Vanadium	(t)	578	3 254	4 461	5 206	5 505	852.42	5.74
Aluminium	(t)	962 000	772 200	792 700	801 700	659 000	-31.50	-17.80
Bauxite	(t)	36 308 000	37 057 000	39 244 200	38 122 500	32 000 000	-11.87	-16.06
Beryllium	(t)	17	100	125	75	70	311.76	-6.67
Cadmium	(t)	200	200	200	180	300	50.00	66.67
Copper	(t)	301 197	350 940	338 921	384 542	381 000	26.50	-0.92
Indium	(t)	5	5	5	5	0	-100.00	-100.00
Lead	(t)	10 978	9 441	9 015	6 959	7 277	-33.71	4.57

Abbreviations: see Explanation

Lithium	(t)	452	308	440	533	600	32.74	12.57
Rare Earths	(t)	0	1 040	2 900	1 700	1 100	.	-35.29
Tin	(t)	25 534	20 010	15 183	17 081	17 100	-33.03	0.11
Zinc	(t)	169 766	156 926	158 197	156 348	167 249	-1.48	6.97
Gold	(kg)	81 038	83 127	94 153	79 717	81 000	-0.05	1.61
Silver	(kg)	32 300	44 142	48 793	46 400	49 600	53.56	6.90
Asbestos	(t)	311 227	232 052	177 800	129 094	101 000	-67.55	-21.76
Baryte	(t)	3 389	17 760	12 133	16 275	17 000	401.62	4.45
Bentonite	(t)	405 169	517 607	354 016	500 000	500 000	23.41	0.00
Diam. (Gem)	(ct)	18 785	10 503	60 560	84 115	82 810	340.83	-1.55
Diam. (Ind)	(ct)	38 138	21 323	122 955	170 780	168 130	340.85	-1.55
Diatomite	(t)	5 080	5 530	16 408	16 000	16 000	214.96	0.00
Feldspar	(t)	313 328	456 308	295 778	290 000	300 000	-4.25	3.45
Fluorspar	(t)	23 849	27 351	18 260	19 000	15 000	-37.10	-21.05
Graphite	(t)	87 026	81 762	61 687	95 000	96 800	11.23	1.89
Gypsum	(t)	3 471 328	3 161 856	2 674 154	2 113 208	2 115 000	-39.07	0.08
Kaolin	(t)	2 055 000	1 809 000	1 737 000	1 771 000	1 550 000	-24.57	-12.48
Magnesite	(t)	1 423 210	1 621 425	1 652 424	1 600 000	1 900 000	33.50	18.75
Phosphates	(t)	2 521 000	2 167 000	2 046 000	1 870 000	1 785 000	-29.19	-4.55
Potash	(t)	311 021	304 018	316 429	306 296	201 181	-35.32	-34.32
Salt	(t)	7 501 051	7 676 015	7 510 314	7 600 000	7 600 000	1.32	0.00
Sulfur	(t)	540 000	530 000	530 000	530 000	530 000	-1.85	0.00
Talc	(t)	531 938	481 687	494 157	500 000	500 000	-6.00	0.00
Vermiculite	(t)	56 444	54 250	53 330	50 050	50 000	-11.42	-0.10
Zircon	(t)	23 659	22 647	21 302	22 000	22 000	-7.01	0.00
Steam Coal	(t)	4 518 466	3 644 350	3 525 735	3 325 439	3 568 760	-21.02	7.32
Lignite	(t)	3 417 779	2 709 305	3 480 217	1 488 084	1 422 500	-58.38	-4.41
Nat. Gas (Mio m <sup>3</sup> )		24 536	24 862	25 337	28 663	26 687	8.77	-6.89
Petroleum	(t)	116 813 400	125 806 800	130 144 400	136 052 700	134 122 000	14.82	-1.42
Uranium	(t)	67	51	0	0	0	-100.00	.
Total	(t)	464 406 427	486 844 472	485 504 557	511 568 529	505 872 027		

## Brunei

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nat. Gas (Mio m <sup>3</sup> )		11 852	11 259	10 860	11 895	11 485	-3.10	-3.45
Petroleum	(t)	6 218 000	6 557 000	5 944 000	5 539 000	5 397 900	-13.19	-2.55
Total	(t)	15 699 600	15 564 200	14 632 000	15 055 000	14 585 900		

## Bulgaria

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	25 830	13 470	12 050	574	1 000	-96.13	74.22
Cadmium	(t)	382	344	362	333	313	-18.06	-6.01
Copper	(t)	115 540	112 600	111 870	110 290	112 850	-2.33	2.32
Lead	(t)	17 020	18 370	22 040	22 860	24 200	42.19	5.86
Tellurium	(t)	5	4	4	5	4	-20.00	-20.00
Zinc	(t)	13 070	16 390	18 790	19 250	20 390	56.01	5.92

**Abbreviations:** see Explanation

Gold	(kg)	6 810	7 930	7 920	8 670	8 995	32.09	3.75
Silver	(kg)	50 200	37 955	52 526	53 053	41 315	-17.70	-22.13
Baryte	(t)	20 000	60 000	50 000	64 000	70 000	250.00	9.38
Bentonite	(t)	41 100	61 600	37 100	54 100	45 000	9.49	-16.82
Fluorspar	(t)	130 800	131 900	4 400	0	0	-100.00	.
Gypsum	(t)	87 800	108 600	60 900	88 000	88 000	0.23	0.00
Kaolin	(t)	321 700	314 900	338 600	322 800	323 000	0.40	0.06
Salt	(t)	3 300 000	3 100 000	3 300 000	3 400 000	3 400 000	3.03	0.00
Sulfur	(t)	428 100	438 500	395 500	501 000	474 100	10.75	-5.37
Steam Coal	(t)	0	9 600	5 900	0	0	.	.
Lignite	(t)	31 435 100	35 938 100	31 434 200	34 587 500	31 813 678	1.20	-8.02
Nat. Gas	(Mio m <sup>3</sup> )	183	85	80	65	22	-87.98	-66.15
Petroleum	(t)	26 200	23 700	22 600	21 930	20 600	-21.37	-6.06
Total	(t)	36 109 104	40 416 124	35 878 377	39 244 704	36 410 785		

## Burkina Faso

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Lead	(t)	1 880	1 000	0	0	0	-100.00	.
Zinc	(t)	67 680	68 670	80 950	91 530	99 162	46.52	8.34
Gold	(kg)	36 321	36 540	38 530	46 398	52 622	44.88	13.41
Silver	(kg)	0	2 400	5 670	5 470	6 160	.	12.61
Total	(t)	69 596	69 709	80 995	91 581	99 221		

## Burundi

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Niobium	(t)	25	13	8	18	8	-68.00	-55.56
Tantalum	(t)	37	19	11	26	11	-70.27	-57.69
Tungsten	(t)	27	11	77	144	117	333.33	-18.75
Rare Earths	(t)				31	631	.	1 935.48
Tin	(t)	81	55	51	123	126	55.56	2.44
Gold	(kg)	650	549	396	953	1 255	93.08	31.69
Total	(t)	171	99	147	343	894		

## Cambodia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	147 000	174 000	148 900	32 000	30 000	-79.59	-6.25
Total	(t)	147 000	174 000	148 900	32 000	30 000		

**Abbreviations:** see Explanation

## Cameroon

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	93 000	88 273	84 689	68 598	85 481	-8.08	24.61
Gold	(kg)	517	795	542	713	448	-13.35	-37.17
Diam. (Ind)	(ct)	3 718	2 245	994	1 757	1 805	-51.45	2.73
Nat. Gas	(Mio m <sup>3</sup> )	310	370	360	390	1 460	370.97	274.36
Petroleum	(t)	3 751 100	4 770 500	4 595 300	3 781 000	3 428 100	-8.61	-9.33
Total	(t)	4 092 101	5 154 774	4 967 989	4 161 599	4 681 581		

## Canada

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	26 335 400	28 194 100	28 505 600	30 682 700	32 180 600	22.20	4.88
Cobalt	(t)	6 907	7 489	7 148	6 058	5 608	-18.81	-7.43
Molybdenum	(t)	9 358	2 505	2 783	4 765	5 048	-46.06	5.94
Nickel	(t)	228 867	234 519	235 034	214 302	179 990	-21.36	-16.01
Niobium	(t)	5 774	5 385	6 099	6 981	7 700	33.36	10.30
Titanium	(t)	771 000	595 000	700 000	750 000	620 000	-19.58	-17.33
Tungsten	(t)	2 147	1 815	0	0	0	-100.00	.
Aluminium	(t)	2 858 237	2 880 037	3 208 888	3 212 124	2 924 389	2.31	-8.96
Antimony	(t)	4	1	0	1	5	25.00	400.00
Bismuth	(t)	4	2	3	4	5	25.00	25.00
Cadmium	(t)	1 187	1 159	2 305	1 802	1 857	56.44	3.05
Copper	(t)	672 729	714 647	695 508	597 194	542 932	-19.29	-9.09
Indium	(t)	67	70	71	67	58	-13.43	-13.43
Lead	(t)	3 617	3 809	12 653	20 477	14 441	299.25	-29.48
Lithium	(t)			0	66	8 750	.	13 157.58
Selenium	(t)	142	156	175	72	85	-40.14	18.06
Tellurium	(t)	8	10	18	18	25	212.50	38.89
Zinc	(t)	352 125	289 584	321 272	346 776	287 119	-18.46	-17.20
Gold	(kg)	152 460	162 504	163 923	178 568	186 866	22.57	4.65
Palladium	(kg)	22 000	22 600	21 200	19 140	20 880	-5.09	9.09
Platinum	(kg)	8 700	10 000	9 700	6 850	7 460	-14.25	8.91
Rhodium	(kg)	550	530	650	600	750	36.36	25.00
Silver	(kg)	495 403	383 807	398 509	392 788	368 113	-25.69	-6.28
Baryte	(t)	35 000	42 000	20 000	50 000	50 000	42.86	0.00
Diam. (Gem)	(ct)	12 011 619	11 677 471	13 315 319	23 198 761	22 789 001	89.72	-1.77
Graphite	(t)	30 000	30 000	21 000	14 000	11 000	-63.33	-21.43
Gypsum	(t)	1 792 709	1 726 216	1 678 573	3 001 390	3 240 000	80.73	7.95
Magnesite	(t)	150 000	150 000	150 000	150 000	150 000	0.00	0.00
Potash	(t)	10 817 955	11 461 530	10 789 662	12 562 695	14 024 000	29.64	11.63
Salt	(t)	14 161 562	14 286 373	10 252 161	11 423 624	10 713 000	-24.35	-6.22
Sulfur	(t)	5 842 000	5 745 000	5 381 000	5 327 000	5 333 000	-8.71	0.11
Talc	(t)	90 000	175 000	199 000	215 000	279 000	210.00	29.77

Abbreviations: see Explanation

Steam Coal	(t)	27 966 000	24 785 000	26 353 000	23 373 000	19 500 000	-30.27	-16.57
Coking Coal	(t)	32 500 000	27 341 000	25 016 000	28 127 000	27 361 000	-15.81	-2.72
Lignite	(t)	8 570 000	10 259 000	9 962 000	9 366 000	7 739 000	-9.70	-17.37
Nat. Gas (Mio m <sup>3</sup> )		153 298	156 410	158 450	160 883	168 888	10.17	4.98
Oil Sands*	(t)	97 843 100	118 594 300	120 572 400	133 202 900	145 081 000	48.28	8.92
Petroleum	(t)	178 204 300	193 884 400	194 332 800	210 707 400	229 292 200	28.67	8.82
Uranium	(t)	11 533	15 659	16 666	14 394	8 225	-28.68	-42.86
<b>Total</b>	<b>(t)</b>	<b>434 057 713</b>	<b>447 960 049</b>	<b>444 630 016</b>	<b>468 881 914</b>	<b>489 590 026</b>		

\*Oil Sands as part of Petroleum

## Cape Verde

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
<b>Total</b>	<b>(t)</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>		

## Central African Republic

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	7	15	33	118	142	1 928.57	20.34
Diam. (Gem)	(ct)	34 000	34 000	9 973	47 840	10 020	-70.53	-79.06
Diam. (Ind)	(ct)	8 500	8 500	2 493	11 960	2 505	-70.53	-79.06
<b>Total</b>	<b>(t)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

## Chad

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Petroleum	(t)	4 980 000	5 976 000	5 478 000	5 663 200	6 347 000	27.45	12.07
<b>Total</b>	<b>(t)</b>	<b>4 980 000</b>	<b>5 976 000</b>	<b>5 478 000</b>	<b>5 663 200</b>	<b>6 347 000</b>		

## Chile

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	9 427 640	9 147 839	9 008 873	9 549 327	8 942 638	-5.14	-6.35
Molybdenum	(t)	48 770	52 579	55 647	62 746	60 705	24.47	-3.25
Copper	(t)	5 761 100	5 772 100	5 552 600	5 503 500	5 831 600	1.22	5.96
Lead	(t)	2 678	2 979	1 110	1 562	712	-73.41	-54.42
Lithium	(t)	24 820	22 500	31 240	32 520	38 850	56.53	19.46

**Abbreviations:** see Explanation

Mercury	(t)	20	14	2	5	3	-85.00	-40.00
Rhenium	(kg)	18 057	22 535	22 542	20 451	26 052	44.28	27.39
Zinc	(t)	45 094	48 071	42 870	29 008	26 810	-40.55	-7.58
Gold	(kg)	46 031	42 501	46 333	37 911	37 066	-19.48	-2.23
Silver	(kg)	1 571 788	1 504 271	1 501 436	1 318 582	1 370 237	-12.82	3.92
Bentonite	(t)	1 083	1 434	1 288	1 584	525	-51.52	-66.86
Boron	(t)	496 533	517 584	558 854	607 076	398 411	-19.76	-34.37
Diatomite	(t)	31 000	26 186	26 937	27 557	24 736	-20.21	-10.24
Feldspar	(t)	4 233	6 577	6 352	4 421	2 789	-34.11	-36.91
Gypsum	(t)	843 490	860 075	934 033	1 157 466	909 191	7.79	-21.45
Kaolin	(t)	60 000	60 000	60 000	60 000	88 262	47.10	47.10
Perlite	(t)	800	3 000	5 500	4 210	5 020	527.50	19.24
Phosphates	(t)	6 400	5 470	1 740	1 190	1 160	-81.88	-2.52
Potash	(t)	1 167 980	1 179 560	1 303 840	1 238 630	991 180	-15.14	-19.98
Salt	(t)	10 553 440	11 831 116	8 139 914	7 440 741	10 012 105	-5.13	34.56
Sulfur	(t)	1 842 700	1 867 100	1 870 900	1 789 000	1 738 100	-5.68	-2.85
Steam Coal	(t)	4 168 185	3 161 726	2 525 171	2 495 390	2 294 677	-44.95	-8.04
Nat. Gas	(Mio m <sup>3</sup> )	907	1 064	1 175	1 200	1 221	34.62	1.75
Petroleum	(t)	357 540	257 100	215 080	177 760	160 330	-55.16	-9.81
Total	(t)	35 570 742	35 675 780	31 283 521	31 145 070	32 506 037		

## China

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	404 379 000	371 250 000	345 841 000	331 931 000	206 111 000	-49.03	-37.91
Chromium	(t)	14 400	17 600	12 200	12 000	10 930	-24.10	-8.92
Cobalt	(t)	9 619	10 093	9 293	8 300	3 100	-67.77	-62.65
Manganese	(t)	3 310 000	2 484 000	2 150 000	2 508 000	1 180 000	-64.35	-52.95
Molybdenum	(t)	131 500	135 150	112 590	117 090	98 420	-25.16	-15.94
Nickel	(t)	101 067	101 400	100 200	102 348	98 963	-2.08	-3.31
Niobium	(t)	20	30	30	30	20	0.00	-33.33
Tantalum	(t)	75	110	120	110	100	33.33	-9.09
Titanium	(t)	1 118 700	1 067 200	1 196 000	1 242 000	1 932 000	72.70	55.56
Tungsten	(t)	67 700	72 200	72 000	71 800	65 300	-3.55	-9.05
Vanadium	(t)	44 800	42 000	45 000	48 500	44 240	-1.25	-8.78
Aluminium	(t)	28 316 700	31 518 000	31 775 400	33 329 580	35 801 912	26.43	7.42
Antimony	(t)	121 400	111 400	103 620	97 683	89 584	-26.21	-8.29
Arsenic	(t)	25 000	25 000	25 000	25 000	24 000	-4.00	-4.00
Bauxite	(t)	59 212 400	60 787 600	66 157 700	69 017 000	70 000 000	18.22	1.42
Beryllium	(t)	1 200	1 200	1 250	1 250	1 250	4.17	0.00
Bismuth	(t)	7 750	7 250	7 100	6 800	7 000	-9.68	2.94
Cadmium	(t)	8 201	8 162	8 222	8 411	8 450	3.04	0.46
Copper	(t)	1 781 000	1 706 400	1 851 000	1 706 400	1 561 100	-12.35	-8.52
Gallium	(t)	262	254	171	290	305	16.41	5.17
Germanium	(t)	95	114	110	87	90	-5.26	3.45
Indium	(t)	437	387	357	355	395	-9.61	11.27
Lead	(t)	2 608 600	2 339 000	2 227 500	2 080 000	2 033 000	-22.07	-2.26
Lithium	(t)	4 100	4 350	4 540	4 900	6 550	59.76	33.67
Mercury	(t)	2 260	2 800	3 433	1 949	2 316	2.48	18.83
Rare Earths	(t)	95 000	105 000	105 000	105 000	120 000	26.32	14.29
Rhenium	(kg)	2 300	2 400	2 400	2 500	2 500	8.70	0.00

**Abbreviations:** see Explanation



Selenium	(t)	720	729	772	720	750	4.17	4.17
Tellurium	(t)	180	277	279	470	480	166.67	2.13
Tin	(t)	102 100	110 200	91 610	74 800	87 414	-14.38	16.86
Zinc	(t)	5 118 400	4 748 000	4 635 000	4 300 000	4 160 000	-18.72	-3.26
Gold	(kg)	451 799	450 053	453 500	426 142	401 119	-11.22	-5.87
Palladium	(kg)	1 000	1 200	1 300	1 400	1 300	30.00	-7.14
Platinum	(kg)	1 600	2 300	3 000	2 500	2 500	56.25	0.00
Silver	(kg)	3 499 144	3 421 385	3 570 682	3 502 254	3 573 792	2.13	2.04
Asbestos	(t)	400 000	250 000	203 000	125 000	170 000	-57.50	36.00
Baryte	(t)	4 100 000	2 984 000	2 771 100	3 100 000	3 100 000	-24.39	0.00
Bentonite	(t)	3 600 000	3 650 000	5 600 000	5 600 000	5 600 000	55.56	0.00
Boron	(t)	97 000	90 000	80 000	70 000	80 000	-17.53	14.29
Diam. (Gem)	(ct)	0	0	127	230	99	.	-56.96
Diatomite	(t)	430 000	420 000	400 000	400 000	280 000	-34.88	-30.00
Feldspar	(t)	2 300 000	2 350 000	2 400 000	2 500 000	2 500 000	8.70	0.00
Fluorspar	(t)	3 800 000	4 400 000	3 800 000	3 800 000	3 500 000	-7.89	-7.89
Graphite	(t)	780 000	780 000	780 000	625 000	630 000	-19.23	0.80
Gypsum	(t)	19 970 000	20 000 000	25 400 000	25 000 000	25 000 000	25.19	0.00
Kaolin	(t)	6 850 000	7 030 000	7 240 000	7 430 000	7 500 000	9.49	0.94
Magnesite	(t)	18 430 000	17 440 000	16 840 000	18 500 000	19 000 000	3.09	2.70
Phosphates	(t)	36 131 400	42 611 700	43 319 400	36 939 600	28 897 800	-20.02	-21.77
Potash	(t)	4 400 000	5 714 000	5 783 000	5 534 000	5 452 000	23.91	-1.48
Salt	(t)	70 497 100	66 655 400	66 201 000	66 541 700	58 361 700	-17.21	-12.29
Sulfur	(t)	14 653 400	13 801 100	13 908 100	13 488 700	13 762 700	-6.08	2.03
Talc	(t)	2 200 000	2 200 000	2 000 000	1 800 000	2 000 000	-9.09	11.11
Vermiculite	(t)	50 000	50 000	50 000	50 000	50 000	0.00	0.00
Zircon	(t)	140 000	140 000	100 000	116 000	150 000	7.14	29.31
Steam Coal	(t)	2 847 246 000	2 812 582 000	2 510 708 000	2 678 559 400	2 813 668 400	-1.18	5.04
Coking Coal	(t)	619 764 000	593 047 000	547 017 000	515 107 300	523 713 600	-15.50	1.67
Nat. Gas (Mio m <sup>3</sup> )		130 157	134 610	136 865	148 035	160 265	23.13	8.26
Petroleum	(t)	211 429 000	214 555 800	199 685 200	191 506 100	189 105 600	-10.56	-1.25
Uranium	(t)	1 769	1 906	1 906	2 223	2 223	25.66	0.00
Total	(t)	4 477 981 911	4 395 100 688	4 020 320 234	4 142 028 831	4 154 188 674		

## Christmas Island

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Phosphates	(t)	154 330	177 100	148 120	147 890	127 730	-17.24	-13.63
Total	(t)	154 330	177 100	148 120	147 890	127 730		

## Colombia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	304 440	406 040	322 100	320 770	257 790	-15.32	-19.63
Nickel	(t)	41 222	36 671	37 092	40 606	43 056	4.45	6.03
Tungsten	(t)	7	3	2	0	0	-100.00	.

Abbreviations: see Explanation

Bauxite	(t)	601	861	693	2 400	9 043	1 404.66	276.79
Copper	(t)	4 118	5 463	8 493	9 356	9 918	140.85	6.01
Gold	(kg)	57 896	59 638	63 157	43 128	35 560	-38.58	-17.55
Platinum	(kg)	1 142	861	917	567	269	-76.44	-52.56
Silver	(kg)	11 692	11 602	11 866	12 074	15 967	36.56	32.24
Baryte	(t)	4 688	4 003	3 068	1 791	2 586	-44.84	44.39
Feldspar	(t)	158 741	159 740	151 759	150 334	141 164	-11.07	-6.10
Fluorspar	(t)	10	47	75	57	46	360.00	-19.30
Gypsum	(t)	368 939	448 543	471 306	405 802	393 496	6.66	-3.03
Magnesite	(t)	3 500	2 883	1 175	1 883	1 039	-70.31	-44.82
Phosphates	(t)	10 420	23 900	21 030	13 850	12 260	17.66	-11.48
Salt	(t)	445 840	417 438	564 194	501 499	391 222	-12.25	-21.99
Sulfur	(t)	48 513	76 239	76 331	81 172	155 641	220.82	91.74
Talc	(t)	562	55	103	59	0	-100.00	-100.00
Steam Coal	(t)	83 468 235	80 716 510	86 622 000	84 795 450	78 384 020	-6.09	-7.56
Coking Coal	(t)	5 104 123	4 823 870	4 438 000	6 078 000	5 899 870	15.59	-2.93
Nat. Gas (Mio m <sup>3</sup> )		12 830	11 860	11 080	10 915	11 590	-9.66	6.18
Petroleum	(t)	49 308 600	50 058 800	44 226 200	42 519 290	43 088 900	-12.61	1.34
Total	(t)	149 536 630	146 669 139	145 807 697	143 654 375	138 062 103		

## Congo, D.R.

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Cobalt	(t)	76 475	84 400	69 038	82 461	111 713	46.08	35.47
Manganese	(t)				0	7 440	.	.
Niobium	(t)	376	694	797	717	607	61.44	-15.34
Tantalum	(t)	399	736	845	761	644	61.40	-15.37
Tungsten	(t)	13	55	79	130	160	1 130.77	23.08
Copper	(t)	1 030 129	1 039 007	1 023 687	1 094 638	1 239 059	20.28	13.19
Lead	(t)	764	653	101	0	0	-100.00	.
Tin	(t)	4 012	4 567	6 503	10 391	8 950	123.08	-13.87
Zinc	(t)	12 737	12 675	12 587	12 337	1 047	-91.78	-91.51
Gold	(kg)	23 937	31 878	30 664	31 586	36 777	53.64	16.43
Silver	(kg)	6 485	2 412	835	3 376	3 400	-47.57	0.71
Diam. (Gem)	(ct)	3 331 600	3 150 700	3 111 890	2 268 332	1 815 745	-45.50	-19.95
Diam. (Ind)	(ct)	13 326 400	12 602 790	12 447 557	16 634 432	13 315 465	-0.08	-19.95
Petroleum	(t)	1 140 580	1 124 940	1 068 970	1 027 850	1 144 760	0.37	11.37
Total	(t)	2 265 519	2 267 765	2 182 642	2 229 323	2 514 423		

Abbreviations: see Explanation

## Congo, Rep.

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)				0	10 800	.	.
Copper	(t)			0	15 979	18 018	.	12.76
Zinc	(t)		0	520	4 270	460	.	-89.23
Gold	(kg)	150	150	100	100	150	0.00	50.00
Diam. (Ind)	(ct)	53 163	40 057	12 110	46 758	46 768	-12.03	0.02
Nat. Gas	(Mio m <sup>3</sup> )	928	928	866	860	867	-6.57	0.81
Petroleum	(t)	12 483 600	12 139 600	12 838 700	13 252 670	16 740 500	34.10	26.32
Total	(t)	13 226 000	12 882 000	13 532 020	13 960 919	17 463 378		

## Costa Rica

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	1 050	950	750	4 255	3 699	252.29	-13.07
Diatomite	(t)	10 851	20 537	20 500	4 218	3 972	-63.40	-5.83
Total	(t)	10 852	20 538	20 500	4 222	3 976		

## Cote d'Ivoire

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	162 900	118 430	102 320	230 340	356 360	118.76	54.71
Nickel	(t)			0	400	5 300	.	1 225.00
Bauxite	(t)				0	100 000	.	.
Gold	(kg)	18 600	23 460	25 055	25 396	24 457	31.49	-3.70
Silver	(kg)	600	576	549	493	510	-15.00	3.45
Diam. (Gem)	(ct)	859	11 940	16 188	8 925	4 540	428.52	-49.13
Diam. (Ind)	(ct)	215	2 985	4 047	2 231	1 140	430.23	-48.90
Nat. Gas	(Mio m <sup>3</sup> )	2 109	2 177	2 395	2 130	1 935	-8.25	-9.15
Petroleum	(t)	941 400	1 464 300	2 104 100	1 696 900	1 607 400	70.75	-5.27
Total	(t)	2 791 520	3 324 354	4 122 446	3 631 665	3 617 085		

Abbreviations: see Explanation

## Croatia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	9 146	11 897	9 780	12 215	11 776	28.76	-3.59
Gypsum	(t)	164 464	126 470	150 430	147 934	211 894	28.84	43.24
Salt	(t)	0	20 670	15 629	19 006	16 453	.	-13.43
Nat. Gas	(Mio m <sup>3</sup> )	1 824	1 781	1 647	1 484	1 230	-32.57	-17.12
Petroleum	(t)	575 960	657 550	737 100	744 500	732 100	27.11	-1.67
Total	(t)	2 208 770	2 241 387	2 230 539	2 110 855	1 956 223		

## Cuba

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	6 600	13 500	12 000	14 400	10 500	59.09	-27.08
Cobalt	(t)	4 000	4 793	5 514	5 407	5 300	32.50	-1.98
Nickel	(t)	50 100	50 000	48 000	49 300	50 000	-0.20	1.42
Lead	(t)			0	1 500	25 380	.	1 592.00
Zinc	(t)			0	2 900	42 250	.	1 356.90
Bentonite	(t)	700	500	389	589	630	-10.00	6.96
Feldspar	(t)	3 600	3 300	5 790	8 715	1 500	-58.33	-82.79
Gypsum	(t)	97 800	90 900	73 900	85 400	99 900	2.15	16.98
Kaolin	(t)	1 700	1 500	2 500	1 500	2 700	58.82	80.00
Salt	(t)	243 300	284 900	248 000	246 300	192 700	-20.80	-21.76
Nat. Gas	(Mio m <sup>3</sup> )	1 200	1 245	1 185	1 051	970	-19.17	-7.71
Petroleum	(t)	2 905 300	2 822 000	2 619 200	2 522 200	2 500 000	-13.95	-0.88
Total	(t)	4 273 100	4 267 393	3 963 293	3 779 011	3 706 860		

## Cyprus

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Copper	(t)	3 088	2 121	1 754	1 293	908	-70.60	-29.78
Gold	(kg)			0	48	47	.	-2.08
Silver	(kg)			0	99	180	.	81.82
Bentonite	(t)	140 174	127 036	117 184	95 593	98 800	-29.52	3.35
Gypsum	(t)	347 600	471 885	682 024	647 108	625 721	80.01	-3.31
Total	(t)	490 862	601 042	800 962	743 994	725 429		

## Czech Republic

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bentonite	(t)	301 000	369 000	374 000	254 000	277 000	-7.97	9.06
Diatomite	(t)	34 000	15 000	26 000	34 000	31 000	-8.82	-8.82
Feldspar	(t)	422 000	433 000	454 000	368 000	449 000	6.40	22.01
Gypsum	(t)	11 000	11 000	10 000	7 000	8 000	-27.27	14.29
Kaolin	(t)	3 281 000	3 454 000	3 540 000	3 669 000	3 622 000	10.39	-1.28
Steam Coal	(t)	3 930 280	3 884 180	3 095 300	2 337 100	2 092 400	-46.76	-10.47
Coking Coal	(t)	4 410 720	3 755 820	2 978 700	2 532 900	2 017 600	-54.26	-20.34
Lignite	(t)	38 348 000	38 251 000	38 646 000	39 310 000	39 187 000	2.19	-0.31
Nat. Gas (Mio m <sup>3</sup> )		198	200	169	171	179	-9.60	4.68
Petroleum	(t)	148 000	126 000	116 000	106 000	109 000	-26.35	2.83
Uranium	(t)	195	158	151	66	40	-79.49	-39.39
<b>Total</b>	<b>(t)</b>	<b>51 044 595</b>	<b>50 459 158</b>	<b>49 375 351</b>	<b>48 754 866</b>	<b>47 936 240</b>		

## Denmark

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bentonite	(t)	66 388	54 272	66 278	69 594	56 173	-15.39	-19.28
Diatomite	(t)	118 800	127 500	114 400	110 000	99 400	-16.33	-9.64
Salt	(t)	600 000	600 000	600 000	600 000	600 000	0.00	0.00
Sulfur	(t)	4 435	93 024	6 144	4 004	4 194	-5.43	4.75
Nat. Gas (Mio m <sup>3</sup> )		4 620	4 603	4 535	4 820	4 148	-10.22	-13.94
Petroleum	(t)	8 131 039	7 689 812	6 924 374	6 736 967	5 665 787	-30.32	-15.90
<b>Total</b>	<b>(t)</b>	<b>12 616 662</b>	<b>12 247 008</b>	<b>11 339 196</b>	<b>11 376 565</b>	<b>9 743 954</b>		

## Dominican Republic

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nickel	(t)	0	0	9 913	15 632	19 214	.	22.91
Bauxite	(t)	1 749 308	1 724 162	7 318	0	0	-100.00	.
Copper	(t)	9 262	7 324	9 725	9 618	8 588	-7.28	-10.71
Zinc	(t)		4 655	3 636	3 920	4 038	.	3.01
Gold	(kg)	36 085	31 134	37 933	35 221	31 640	-12.32	-10.17
Silver	(kg)	135 025	95 706	121 749	151 828	166 510	23.32	9.67
Feldspar	(t)	20 800	7 800	5 200	5 000	1 200	-94.23	-76.00
Gypsum	(t)	423 350	470 780	284 170	158 020	86 660	-79.53	-45.16
Salt	(t)	23 670	25 890	26 000	0	25 000	5.62	.
<b>Total</b>	<b>(t)</b>	<b>2 226 561</b>	<b>2 240 738</b>	<b>346 122</b>	<b>192 377</b>	<b>144 899</b>		

**Abbreviations:** see Explanation

## Ecuador

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Antimony	(t)	15	40	15	260	0	-100.00	-100.00
Copper	(t)	3 200	1 400	40 200	8 200	42 200	1 218.75	414.63
Gold	(kg)	7 322	7 723	6 761	6 368	8 213	12.17	28.97
Silver	(kg)	577	2 521	934	68	192	-66.72	182.35
Baryte	(t)				0	2 868	.	.
Feldspar	(t)	183 259	253 253	148 506	92 871	43 197	-76.43	-53.49
Kaolin	(t)	40 236	64 486	4 110	548	0	-100.00	-100.00
Nat. Gas	(Mio m <sup>3</sup> )	578	497	528	463	349	-39.62	-24.62
Petroleum	(t)	27 699 000	27 038 000	27 377 000	26 452 000	25 754 000	-7.02	-2.64
Total	(t)	28 388 118	27 754 790	27 992 239	26 924 285	26 121 473		

## Egypt

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	764 610	186 300	229 010	270 000	270 000	-64.69	0.00
Manganese	(t)	12 000	5 000	0	0	0	-100.00	.
Aluminium	(t)	304 200	338 000	314 600	279 100	267 100	-12.20	-4.30
Tin	(t)	48	0	0	0	0	-100.00	.
Gold	(kg)	11 734	13 657	17 139	16 941	14 694	25.23	-13.26
Baryte	(t)	3 380	3 800	4 000	4 000	4 000	18.34	0.00
Bentonite	(t)	3 615	4 500	3 600	2 000	2 000	-44.67	0.00
Feldspar	(t)	300 000	230 000	230 000	230 000	230 000	-23.33	0.00
Fluorspar	(t)	900	1 105	1 000	1 000	1 000	11.11	0.00
Gypsum	(t)	872 141	744 160	686 610	650 000	650 000	-25.47	0.00
Kaolin	(t)	300 000	232 351	230 000	230 000	230 000	-23.33	0.00
Phosphates	(t)	1 400 970	993 830	741 240	1 276 000	1 300 000	-7.21	1.88
Salt	(t)	1 543 000	1 669 000	1 402 000	1 400 000	1 400 000	-9.27	0.00
Sulfur	(t)	60 000	60 000	60 000	80 000	80 000	33.33	0.00
Talc	(t)	24 360	30 000	14 300	15 000	15 000	-38.42	0.00
Vermiculite	(t)	3 000	8 190	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	46 960	42 590	40 250	48 810	58 560	24.70	19.98
Petroleum	(t)	35 140 200	35 431 000	33 835 000	32 178 000	32 701 930	-6.94	1.63
Total	(t)	78 300 436	74 009 250	69 951 377	75 663 117	83 999 045		

## El Salvador

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Total	(t)	100 000	100 000	100 000	100 000	100 000		

Abbreviations: see Explanation

## Equatorial Guinea

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nat. Gas (Mio m <sup>3</sup> )		6 160	6 200	6 200	6 600	7 750	25.81	17.42
Petroleum	(t)	13 212 380	12 056 260	10 161 060	8 686 440	7 884 840	-40.32	-9.23
Total	(t)	18 140 380	17 016 260	15 121 060	13 966 440	14 084 840		

## Eritrea

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Copper	(t)	88 900	61 600	25 300	7 900	17 300	-80.54	118.99
Zinc	(t)		0	40 900	95 400	125 000	.	31.03
Gold	(kg)	840	753	333	1 000	1 000	19.05	0.00
Silver	(kg)	47 402	38 910	13 219	1 192	31 000	-34.60	2 500.67
Gypsum	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Kaolin	(t)	200	200	200	200	200	0.00	0.00
Salt	(t)	300 000	300 000	310 000	310 000	310 000	3.33	0.00
Total	(t)	390 148	362 840	377 413	414 502	453 532		

## Estonia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Oil Shales	(t)	20 995 000	19 616 000	15 764 000	21 625 000	21 883 000	4.23	1.19
Total	(t)	20 995 000	19 616 000	15 764 000	21 625 000	21 883 000		

## Eswatini

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	301 630	0	0	0	0	-100.00	.
Steam Coal	(t)	177 930	141 733	158 418	202 277	144 375	-18.86	-28.63
Total	(t)	479 560	141 733	158 418	202 277	144 375		

## Ethiopia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)				0	8 000	.	.
Niobium	(t)	25	20	28	25	28	12.00	12.00
Tantalum	(t)	90	75	101	90	104	15.56	15.56

**Abbreviations:** see Explanation

Gold	(kg)	10 340	9 370	8 573	5 390	3 495	-66.20	-35.16
Silver	(kg)	1 000	990	880	750	1 000	0.00	33.33
Diatomite	(t)	4 000	4 000	4 000	4 000	5 000	25.00	25.00
Gypsum	(t)	43 000	116 000	80 556	85 236	253 165	488.76	197.02
Kaolin	(t)	4 530	4 600	4 600	5 000	10 000	120.75	100.00
Salt	(t)	320 000	320 000	54 534	60 654	122 850	-61.61	102.54
Total	(t)	371 656	444 705	143 829	155 011	399 151		

## Fiji

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	496 616	172 336	58 050	118 540	57 960	-88.33	-51.11
Gold	(kg)	1 196	1 290	1 500	1 425	1 281	7.11	-10.11
Silver	(kg)	361	354	354	350	358	-0.83	2.29
Total	(t)	496 617	172 337	58 051	118 541	57 961		

## Finland

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	441 300	457 100	469 140	416 285	492 774	11.66	18.37
Cobalt	(t)	2 104	2 119	2 260	2 300	1 377	-34.55	-40.13
Nickel	(t)	19 281	9 383	20 654	34 641	43 572	125.98	25.78
Copper	(t)	42 810	41 805	47 488	53 144	46 755	9.22	-12.02
Germanium	(t)	17	13	0	0	0	-100.00	.
Selenium	(t)	94	93	104	100	109	15.96	9.00
Zinc	(t)	46 063	25 332	45 852	66 284	85 067	84.68	28.34
Gold	(kg)	8 085	8 342	8 865	9 102	8 732	8.00	-4.07
Palladium	(kg)	808	784	901	1 021	1 157	43.19	13.32
Platinum	(kg)	1 060	992	1 178	1 418	1 576	48.68	11.14
Silver	(kg)	12 830	13 051	16 348	13 654	12 849	0.15	-5.90
Feldspar	(t)	46 233	38 026	18 549	14 926	17 469	-62.22	17.04
Magnesite	(t)	12 276	22 390	54 227	63 850	49 601	304.05	-22.32
Phosphates	(t)	340 640	344 360	338 230	352 300	356 070	4.53	1.07
Sulfur	(t)	845 000	847 000	852 700	937 000	888 300	5.12	-5.20
Talc	(t)	380 821	332 174	345 739	354 819	374 398	-1.69	5.52
Total	(t)	2 176 662	2 119 818	2 194 970	2 295 674	2 355 517		

Abbreviations: see Explanation



## France

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	381 000	415 000	424 640	426 730	390 000	2.36	-8.61
Bauxite	(t)	71 100	70 000	70 000	70 000	70 000	-1.55	0.00
Indium	(t)	43	41	0	30	43	0.00	43.33
Bentonite	(t)	11 607	36 403	42 567	24 497	35 696	207.54	45.72
Diatomite	(t)	90 000	90 000	90 000	90 000	90 000	0.00	0.00
Feldspar	(t)	550 000	550 000	550 000	550 000	550 000	0.00	0.00
Gypsum	(t)	3 279 000	2 027 360	4 182 614	3 013 543	5 314 983	62.09	76.37
Kaolin	(t)	310 000	275 150	263 993	279 120	301 842	-2.63	8.14
Salt	(t)	6 932 600	6 754 200	4 266 248	4 751 174	5 385 350	-22.32	13.35
Sulfur	(t)	400 000	380 000	380 000	500 000	500 000	25.00	0.00
Talc	(t)	450 000	450 000	450 000	470 000	450 000	0.00	-4.26
Steam Coal	(t)	300 000	0	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	20	30	40	51	70	250.00	37.25
Oil Shales	(t)	2 000	2 000	2 000	2 000	2 000	0.00	0.00
Petroleum	(t)	766 000	835 000	816 000	758 000	776 000	1.31	2.37
Uranium	(t)	4	2	0	0	0	-100.00	.
Total	(t)	13 559 354	11 909 156	11 570 062	10 975 894	13 921 914		

## French Guiana

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	1 689	1 374	1 321	1 486	1 200	-28.95	-19.25
Total	(t)	2	1	1	1	1		

## Gabon

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	1 872 100	1 973 000	1 658 500	2 369 900	2 982 800	59.33	25.86
Gold	(kg)	1 078	1 472	1 020	620	83	-92.30	-86.61
Nat. Gas	(Mio m <sup>3</sup> )	330	466	530	491	511	54.85	4.07
Petroleum	(t)	10 980 000	11 920 000	11 480 000	10 503 000	9 646 000	-12.15	-8.16
Total	(t)	13 116 101	14 265 801	13 562 501	13 265 701	13 037 600		

## Georgia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	83 600	66 000	48 400	90 000	95 000	13.64	5.56
Copper	(t)	13 100	11 700	12 200	14 700	15 250	16.41	3.74

**Abbreviations:** see Explanation

Gold	(kg)	2 300	3 073	3 621	3 032	2 913	26.65	-3.92
Steam Coal	(t)	299 300	305 900	296 500	268 100	137 900	-53.93	-48.56
Nat. Gas	(Mio m <sup>3</sup> )	10	11	7	9	10	0.00	11.11
Petroleum	(t)	42 600	40 200	38 600	32 000	30 200	-29.11	-5.63
Total	(t)	446 602	432 603	401 304	412 003	286 353		

## Germany

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	66 900	71 900	74 500	82 900	82 900	23.92	0.00
Aluminium	(t)	530 700	541 400	546 800	550 000	528 900	-0.34	-3.84
Cadmium	(t)	570	370	652	730	520	-8.77	-28.77
Gallium	(t)	16	11	4	0	0	-100.00	.
Indium	(t)	10	10	10	10	0	-100.00	-100.00
Selenium	(t)	700	660	700	300	300	-57.14	0.00
Baryte	(t)	87 575	68 297	49 373	34 177	39 218	-55.22	14.75
Bentonite	(t)	394 657	392 831	393 000	416 000	379 000	-3.97	-8.89
Feldspar	(t)	5 846 646	4 649 326	5 319 218	5 300 000	5 300 000	-9.35	0.00
Fluorspar	(t)	58 100	57 741	52 552	45 375	49 197	-15.32	8.42
Graphite	(t)	517	398	502	422	222	-57.06	-47.39
Gypsum	(t)	2 699 775	2 574 312	3 970 000	4 450 000	4 550 000	68.53	2.25
Kaolin	(t)	4 275 422	3 733 714	4 740 000	5 168 000	4 930 000	15.31	-4.61
Potash	(t)	3 177 141	3 109 903	2 750 841	2 963 561	2 754 085	-13.32	-7.07
Salt	(t)	13 330 692	13 957 574	14 476 868	15 567 990	16 248 784	21.89	4.37
Sulfur	(t)	708 146	627 797	577 684	537 882	419 597	-40.75	-21.99
Steam Coal	(t)	3 224 800	2 626 600	1 807 100	1 483 200	1 260 000	-60.93	-15.05
Coking Coal	(t)	4 415 100	3 596 100	2 041 900	2 185 300	1 323 600	-70.02	-39.43
Lignite	(t)	178 155 000	178 065 000	171 552 350	171 285 700	166 258 000	-6.68	-2.94
Nat. Gas	(Mio m <sup>3</sup> )	10 127	9 388	8 673	7 932	6 888	-31.98	-13.16
Oil Shales	(t)	506 693	468 470	492 777	481 803	494 650	-2.38	2.67
Petroleum	(t)	2 429 789	2 412 643	2 355 028	2 218 406	2 066 643	-14.95	-6.84
Uranium	(t)	39	0	53	40	0	-100.00	-100.00
Total	(t)	228 010 588	224 465 457	218 140 312	219 117 396	212 196 016		

## Ghana

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	473 720	451 020	706 390	1 051 250	1 593 110	236.30	51.54
Aluminium	(t)	38 100	33 800	33 010	40 500	42 867	12.51	5.84
Bauxite	(t)	798 114	1 014 605	1 143 676	1 476 966	1 011 302	26.71	-31.53
Gold	(kg)	106 782	96 926	128 026	143 438	149 048	39.58	3.91
Silver	(kg)	4 000	4 000	3 100	4 000	4 000	0.00	0.00
Diam. (Gem)	(ct)	192 896	139 350	114 400	69 540	46 025	-76.14	-33.82
Diam. (Ind)	(ct)	48 224	34 838	28 605	17 385	11 505	-76.14	-33.82
Salt	(t)	250 000	250 000	250 000	250 000	330 000	32.00	32.00

**Abbreviations:** see Explanation

Nat. Gas (Mio m <sup>3</sup> )	60	733	660	940	910	1 416.67	-3.19
Petroleum (t)	5 328 400	5 351 200	4 614 000	8 379 700	8 876 500	66.59	5.93
Total (t)	6 936 445	7 687 126	7 275 207	11 950 563	12 581 932		

## Greece

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium (t)					0	16 650	.	.
Nickel (t)		21 440	21 060	22 030	21 090	19 980	-6.81	-5.26
Aluminium (t)		173 164	179 420	181 680	181 700	187 465	8.26	3.17
Bauxite (t)		1 872 710	1 831 660	1 847 700	1 927 150	1 559 359	-16.73	-19.08
Lead (t)		13 016	10 074	11 283	12 075	15 345	17.89	27.08
Zinc (t)		22 953	13 174	18 866	18 715	21 515	-6.26	14.96
Gold (kg)		2 328	1 600	940	823	2 839	21.95	244.96
Silver (kg)		35 785	28 050	29 342	34 220	34 890	-2.50	1.96
Bentonite (t)		1 011 485	1 123 320	883 220	1 087 800	1 365 374	34.99	25.52
Gypsum (t)		664 288	649 280	777 990	547 140	827 298	24.54	51.20
Magnesite (t)		360 268	383 230	397 940	442 680	425 882	18.21	-3.79
Perlite (t)		985 328	890 670	921 410	932 950	790 412	-19.78	-15.28
Salt (t)		146 402	121 537	158 020	166 527	163 474	11.66	-1.83
Sulfur (t)		220 000	155 000	185 000	210 000	280 000	27.27	33.33
Lignite (t)		50 800 000	46 308 120	32 674 790	37 802 600	36 574 360	-28.00	-3.25
Nat. Gas (Mio m <sup>3</sup> )		5	4	9	8	12	140.00	50.00
Petroleum (t)		70 139	72 649	173 486	139 551	201 786	187.69	44.60
Total (t)		56 365 231	51 762 424	38 260 645	43 496 413	42 458 538		

## Guatemala

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron (t)		850	7 310	8 210	2 670	2 590	204.71	-3.00
Nickel (t)		57 700	38 500	36 900	54 500	48 400	-16.12	-11.19
Antimony (t)		0	0	25	0	0	.	.
Lead (t)		10 359	10 153	10 000	4 200	0	-100.00	-100.00
Zinc (t)		13 394	14 810	15 000	6 100	0	-100.00	-100.00
Gold (kg)		6 140	5 641	3 907	1 646	0	-100.00	-100.00
Silver (kg)		858 356	862 814	837 793	336 944	0	-100.00	-100.00
Baryte (t)		43	544	500	43	63	46.51	46.51
Bentonite (t)		75 200	718	18 081	20 542	16 953	-77.46	-17.47
Feldspar (t)		10 410	10 340	30 428	29 145	30 257	190.65	3.82
Gypsum (t)		81 805	111 351	130 617	135 154	132 897	62.46	-1.67

**Abbreviations:** see Explanation

Kaolin	(t)	1 285	1 101	793	657	724	-43.66	10.20
Magnesite	(t)	24 268	25 000	23 954	16 298	4 745	-80.45	-70.89
Talc	(t)	3 368	3 779	2 733	1 982	2 187	-35.07	10.34
Petroleum	(t)	500 400	499 800	448 100	480 000	458 800	-8.31	-4.42
Total	(t)	779 946	724 275	726 183	751 630	697 616		

## Guinea

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	20 170 000	20 692 000	32 423 932	51 701 564	59 573 707	195.36	15.23
Gold	(kg)	23 465	21 460	29 192	46 847	25 823	10.05	-44.88
Diam. (Gem)	(ct)	123 044	125 161	84 597	136 090	219 530	78.42	61.31
Diam. (Ind)	(ct)	41 015	41 720	28 200	45 360	73 180	78.42	61.33
Total	(t)	20 170 023	20 692 021	32 423 961	51 701 611	59 573 733		

## Guyana

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	1 563 563	1 526 467	1 479 090	1 459 223	1 924 558	23.09	31.89
Gold	(kg)	12 053	14 029	22 168	20 334	19 069	58.21	-6.22
Diam. (Gem)	(ct)	74 963	88 838	104 920	39 120	46 580	-37.86	19.07
Diam. (Ind)	(ct)	24 988	29 613	34 970	13 040	15 530	-37.85	19.10
Total	(t)	1 563 575	1 526 481	1 479 112	1 459 243	1 924 577		

## Honduras

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Antimony	(t)	13	14	0	0	20	53.85	.
Lead	(t)	15 500	9 800	4 000	6 761	9 893	-36.17	46.32
Zinc	(t)	30 000	23 000	14 500	20 437	28 422	-5.26	39.07
Gold	(kg)	2 762	2 598	2 607	2 656	2 070	-25.05	-22.06
Silver	(kg)	56 826	34 369	17 803	21 785	31 182	-45.13	43.14
Gypsum	(t)	2 598	2 600	5 000	5 000	5 000	92.46	0.00
Salt	(t)	54 400	45 400	59 000	59 000	63 500	16.73	7.63
Total	(t)	102 571	80 851	82 521	91 223	106 868		

**Abbreviations:** see Explanation

## Hungary

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	13 650	15 330	4 840	0	0	-100.00	.
Bauxite	(t)	14 400	8 300	16 710	1 300	4 200	-70.83	223.08
Gallium	(t)	2	0	0	0	0	-100.00	.
Bentonite	(t)	13 893	14 170	16 000	24 630	25 000	79.95	1.50
Perlite	(t)	32 750	31 275	31 000	34 628	35 000	6.87	1.07
Lignite	(t)	9 553 700	9 263 180	9 232 810	7 973 341	7 896 606	-17.35	-0.96
Nat. Gas (Mio m <sup>3</sup> )		1 933	1 887	1 823	1 605	1 710	-11.54	6.54
Petroleum	(t)	594 000	633 072	732 702	705 274	808 000	36.03	14.57
Total	(t)	11 768 795	11 474 927	11 492 462	10 023 173	10 136 806		

## Iceland

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	698 765	724 705	700 080	759 988	731 478	4.68	-3.75
Salt	(t)	5 000	5 000	5 000	5 000	5 000	0.00	0.00
Total	(t)	703 765	729 705	705 080	764 988	736 478		

## India

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	80 404 800	98 687 200	121 395 000	125 415 500	123 510 200	53.61	-1.52
Chromium	(t)	995 500	1 335 560	1 728 270	1 609 010	1 751 800	75.97	8.87
Manganese	(t)	780 210	728 970	801 600	859 170	924 200	18.46	7.57
Titanium	(t)	368 600	360 300	341 400	167 800	188 800	-48.78	12.51
Aluminium	(t)	2 026 803	2 354 949	2 896 629	3 400 618	2 760 000	36.18	-18.84
Bauxite	(t)	22 493 671	28 123 789	24 745 487	22 312 681	23 193 680	3.11	3.95
Cadmium	(t)	69	0	35	47	0	-100.00	-100.00
Copper	(t)	24 880	34 220	29 670	31 820	35 450	42.48	11.41
Lead	(t)	111 370	143 710	150 860	172 720	198 270	78.03	14.79
Rare Earths	(t)	1 836	956	2 265	2 300	2 900	57.95	26.09
Selenium	(t)	16	17	17	17	17	6.25	0.00
Tin	(t)	19	10	9	13	21	10.53	61.54
Zinc	(t)	767 180	740 740	755 780	772 600	719 920	-6.16	-6.82
Gold	(kg)	1 440	1 323	1 594	1 648	1 360	-5.56	-17.48
Silver	(kg)	327 647	426 443	460 811	557 691	652 900	99.27	17.07
Baryte	(t)	1 010 214	1 252 262	1 262 100	2 050 215	2 000 000	97.98	-2.45
Bentonite	(t)	1 333 000	1 580 000	2 978 858	3 488 264	3 000 000	125.06	-14.00
Diam. (Gem)	(ct)	2 889	12 784	13 970	12 940	13 020	350.67	0.62
Diam. (Ind)	(ct)	33 218	23 260	22 520	26 760	26 430	-20.43	-1.23
Feldspar	(t)	3 168 369	3 343 773	6 434 788	4 270 245	4 300 000	35.72	0.70

Abbreviations: see Explanation

Fluorspar	(t)	2 947	2 333	1 175	1 313	650	-77.94	-50.50
Graphite	(t)	116 712	135 528	122 437	33 558	38 900	-66.67	15.92
Gypsum	(t)	2 768 313	2 138 814	1 816 981	2 048 127	2 000 000	-27.75	-2.35
Kaolin	(t)	3 861 380	4 770 000	4 110 000	4 100 000	4 000 000	3.59	-2.44
Magnesite	(t)	285 009	327 663	299 149	195 033	148 280	-47.97	-23.97
Phosphates	(t)	363 060	368 350	288 830	386 910	311 420	-14.22	-19.51
Salt	(t)	26 887 100	27 643 700	29 191 600	28 949 400	30 033 000	11.70	3.74
Sulfur	(t)	2 564 808	2 741 100	2 960 800	3 475 200	4 295 000	67.46	23.59
Talc	(t)	1 921 087	1 094 101	1 292 893	1 652 367	1 640 000	-14.63	-0.75
Vermiculite	(t)	15 327	23 279	9 042	6 055	3 150	-79.45	-47.98
Zircon	(t)	23 659	18 437	30 351	13 951	15 000	-36.60	7.52
Steam Coal	(t)	551 733 000	578 343 000	596 207 000	635 252 000	687 586 000	24.62	8.24
Coking Coal	(t)	57 446 000	60 887 000	61 661 000	40 148 000	41 132 000	-28.40	2.45
Lignite	(t)	48 270 000	43 842 000	45 230 000	46 644 000	44 283 000	-8.26	-5.06
Nat. Gas (Mio m <sup>3</sup> )		32 693	31 129	30 848	31 731	32 058	-1.94	1.03
Petroleum	(t)	37 461 000	36 951 000	36 009 000	35 684 000	34 203 300	-8.70	-4.15
Uranium	(t)	454	454	454	496	499	9.91	0.60
Total	(t)	873 361 122	922 876 842	967 432 343	988 528 790	1 037 922 511		

## Indonesia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	3 273 300	2 111 200	2 300 000	1 075 800	600 000	-81.67	-44.23
Cobalt	(t)	329	350	350	350	350	6.38	0.00
Manganese	(t)	3 700	27 000	27 000	27 000	27 000	629.73	0.00
Nickel	(t)	215 000	129 600	198 900	363 000	545 000	153.49	50.14
Aluminium	(t)	264 474	257 149	245 483	218 816	242 043	-8.48	10.61
Bauxite	(t)	2 539 274	471 867	494 722	1 733 380	11 023 850	334.13	535.97
Copper	(t)	379 787	586 914	727 959	621 979	651 132	71.45	4.69
Lead	(t)	4 690	5 470	5 280	7 635	11 380	142.64	49.05
Tin	(t)	75 170	70 310	62 877	78 070	83 015	10.44	6.33
Zinc	(t)	740	21 260	8 540	13 800	20 070	2 612.16	45.43
Gold	(kg)	69 349	92 171	91 090	101 510	135 250	95.03	33.24
Silver	(kg)	165 760	201 595	228 640	328 780	308 810	86.30	-6.07
Bentonite	(t)	7 000	7 000	7 000	7 000	7 000	0.00	0.00
Feldspar	(t)	1 474 100	1 204 900	1 353 300	2 601 000	2 000 000	35.68	-23.11
Gypsum	(t)	8 000	8 000	8 000	8 000	8 000	0.00	0.00
Kaolin	(t)	753 000	681 100	728 000	736 600	750 000	-0.40	1.82
Salt	(t)	1 877 170	2 186 600	141 000	1 021 321	2 719 256	44.86	166.25
Sulfur	(t)	540 000	540 000	540 000	500 000	500 000	-7.41	0.00
Zircon	(t)	21 000	30 900	34 800	29 500	53 700	155.71	82.03
Steam Coal	(t)	487 291 000	452 542 000	460 137 000	461 248 184	557 772 940	14.46	20.93
Coking Coal	(t)	3 300 000	2 230 000	3 340 000	4 300 000	5 578 000	69.03	29.72
Nat. Gas (Mio m <sup>3</sup> )		76 110	75 740	74 670	72 270	72 570	-4.65	0.42
Petroleum	(t)	39 269 800	39 121 400	41 488 400	39 879 800	38 441 100	-2.11	-3.61
Total	(t)	602 185 769	562 825 314	571 584 931	572 287 666	679 090 280		

Abbreviations: see Explanation

## Iran

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	25 709 416	25 797 898	21 623 000	21 884 000	24 700 000	-3.93	12.87
Chromium	(t)	157 953	142 810	162 100	92 850	113 410	-28.20	22.14
Manganese	(t)	56 628	69 760	33 110	33 915	45 595	-19.48	34.44
Molybdenum	(t)	3 494	3 337	3 340	4 280	3 690	5.61	-13.79
Titanium	(t)	7 000	38 290	3 340	30 630	30 000	328.57	-2.06
Aluminium	(t)	286 514	353 000	341 000	337 608	304 800	6.38	-9.72
Antimony	(t)	432	216	2 767	620	1 645	280.79	165.32
Arsenic	(t)	110	110	0	400	0	-100.00	-100.00
Bauxite	(t)	540 003	773 700	765 616	804 510	866 683	60.50	7.73
Copper	(t)	216 800	254 709	282 500	295 653	316 380	45.93	7.01
Lead	(t)	44 000	40 800	47 000	48 000	48 000	9.09	0.00
Mercury	(t)	12	14	2	3	0	-100.00	-100.00
Zinc	(t)	150 000	168 210	176 400	196 000	210 000	40.00	7.14
Gold	(kg)	1 760	2 368	4 537	7 100	7 600	331.82	7.04
Silver	(kg)	34 945	48 380	50 000	50 000	50 000	43.08	0.00
Baryte	(t)	671 316	1 085 667	1 449 038	514 711	477 227	-28.91	-7.28
Bentonite	(t)	419 693	435 974	356 036	517 524	423 604	0.93	-18.15
Boron	(t)	180	515	36	850	851	372.78	0.12
Diatomite	(t)	9 912	9 500	37	0	0	-100.00	.
Feldspar	(t)	1 128 569	1 003 354	1 120 449	1 128 585	1 320 452	17.00	17.00
Fluorspar	(t)	78 736	39 286	70 820	55 297	55 000	-30.15	-0.54
Gypsum	(t)	19 550 120	17 793 500	15 715 011	13 942 092	10 904 289	-44.22	-21.79
Kaolin	(t)	820 067	791 193	868 179	861 938	1 158 983	41.33	34.46
Magnesite	(t)	165 886	165 073	145 223	166 636	137 445	-17.14	-17.52
Perlite	(t)	42 646	63 030	17 083	23 837	71 579	67.84	200.29
Phosphates	(t)	36 527	65 342	77 912	88 715	105 840	189.76	19.30
Potash	(t)	449 700	632 100	929 400	804 900	942 800	109.65	17.13
Salt	(t)	3 940 112	4 448 463	2 995 025	2 839 430	2 453 873	-37.72	-13.58
Sulfur	(t)	2 100 000	2 200 000	2 200 000	2 200 000	2 200 000	4.76	0.00
Talc	(t)	52 492	150 965	87 899	86 514	73 259	39.56	-15.32
Vermiculite	(t)	1 200	1 000	1 000	0	0	-100.00	.
Steam Coal	(t)	166 000	109 000	121 000	138 000	400 000	140.96	189.86
Coking Coal	(t)	909 000	1 097 000	1 214 000	1 383 000	1 650 000	81.52	19.31
Nat. Gas (Mio m <sup>3</sup> )		175 451	183 548	199 342	220 166	239 486	36.50	8.78
Petroleum	(t)	174 046 500	180 242 940	216 315 450	235 627 440	220 373 060	26.62	-6.47
Total	(t)	372 121 855	384 815 206	426 597 428	460 240 795	460 977 323		

## Iraq

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bentonite	(t)	255	0	0	0	0	-100.00	.
Gypsum	(t)	1 200 000	1 000 000	1 000 000	1 000 000	1 000 000	-16.67	0.00
Phosphates	(t)	25 000	0	40 000	40 000	377 120	1 408.48	842.80
Salt	(t)	180 000	209 000	200 000	237 350	271 500	50.83	14.39
Sulfur	(t)	37 000	40 000	40 000	40 000	40 000	8.11	0.00

Abbreviations: see Explanation

Nat. Gas (Mio m <sup>3</sup> )		7 530	7 300	9 900	10 120	12 990	72.51	28.36
Petroleum (t)		158 809 600	195 614 960	217 606 460	222 159 830	226 147 090	42.40	1.79
Total (t)		166 275 855	202 703 960	226 806 460	231 573 180	238 227 710		

## Ireland

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Lead (t)		40 500	31 300	19 600	17 100	16 712	-58.74	-2.27
Zinc (t)		282 600	236 300	147 800	130 600	131 742	-53.38	0.87
Silver (kg)		6 436	3 770	1 076	1 344	1 160	-81.98	-13.69
Gypsum (t)		300 000	250 000	250 000	200 000	200 000	-33.33	0.00
Nat. Gas (Mio m <sup>3</sup> )		140	120	2 750	3 170	3 060	2 085.71	-3.47
Total (t)		735 106	613 604	2 617 401	2 883 701	2 796 455		

## Israel

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum (t)		82 000	159 300	147 000	116 000	120 000	46.34	3.45
Phosphates (t)		1 040 700	1 192 900	1 223 600	1 032 900	1 100 500	5.75	6.54
Potash (t)		1 854 600	1 297 000	2 093 100	2 126 700	2 149 300	15.89	1.06
Salt (t)		459 742	333 300	389 240	514 100	400 000	-12.99	-22.19
Nat. Gas (Mio m <sup>3</sup> )		6 760	7 410	8 250	9 630	10 500	55.33	9.03
Oil Shales (t)		395 600	420 100	423 100	449 100	414 550	4.79	-7.69
Petroleum (t)		81 960	76 170	115 040	76 290	74 475	-9.13	-2.38
Total (t)		9 322 602	9 406 770	10 991 080	12 019 090	12 658 825		

## Italy

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Indium (t)		5	5	5	5	5	0.00	0.00
Bentonite (t)		20 000	12 840	45 978	86 106	100 067	400.34	16.21
Feldspar (t)		2 185 000	2 200 000	2 200 000	2 200 000	2 200 000	0.69	0.00
Gypsum (t)		5 886 650	571 730	617 188	469 044	188 618	-96.80	-59.79
Kaolin (t)		384 891	305 327	408 810	568 738	977 671	154.01	71.90
Salt (t)		3 200 000	3 030 687	2 550 849	2 283 406	1 514 829	-52.66	-33.66
Sulfur (t)		740 000	683 300	838 500	846 900	809 900	9.45	-4.37
Talc (t)		165 000	165 000	165 000	165 000	165 000	0.00	0.00

**Abbreviations:** see Explanation



Steam Coal	(t)	86 000	73 000	59 000	47 000	0	-100.00	-100.00
Nat. Gas	(Mio m <sup>3</sup> )	7 149	6 771	5 785	5 538	5 448	-23.79	-1.63
Petroleum	(t)	5 765 000	5 470 000	3 746 000	4 138 000	4 684 200	-18.75	13.20
Total	(t)	24 151 746	17 928 689	15 259 330	15 234 599	14 998 690		

## Jamaica

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	9 676 697	9 628 818	8 540 131	8 244 628	10 058 228	3.94	22.00
Gypsum	(t)	45 200	43 000	50 000	46 000	47 000	3.98	2.17
Salt	(t)	14 169	14 379	15 354	12 565	10 000	-29.42	-20.41
Total	(t)	9 736 066	9 686 197	8 605 485	8 303 193	10 115 228		

## Japan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	500	0	0	0	0	-100.00	.
Arsenic	(t)	45	45	45	45	45	0.00	0.00
Bismuth	(t)	582	632	428	525	571	-1.89	8.76
Cadmium	(t)	1 829	1 959	1 988	2 142	1 980	8.26	-7.56
Gallium	(t)	8	5	3	3	3	-62.50	0.00
Germanium	(t)	2	2	2	2	2	0.00	0.00
Indium	(t)	70	70	70	70	70	0.00	0.00
Selenium	(t)	782	773	752	792	768	-1.79	-3.03
Tellurium	(t)	37	37	33	38	58	56.76	52.63
Gold	(kg)	7 114	7 699	6 455	6 369	6 453	-9.29	1.32
Silver	(kg)	3 541	4 616	5 076	3 408	3 596	1.55	5.52
Bentonite	(t)	500 000	500 000	500 000	500 000	500 000	0.00	0.00
Feldspar	(t)	105 000	105 000	105 000	105 000	105 000	0.00	0.00
Kaolin	(t)	13 000	12 000	12 000	12 000	12 000	-7.69	0.00
Salt	(t)	928 000	938 000	928 000	926 000	929 000	0.11	0.32
Sulfur	(t)	3 502 600	3 420 900	3 517 800	3 372 500	3 277 400	-6.43	-2.82
Talc	(t)	375 000	375 000	375 000	365 000	160 000	-57.33	-56.16
Nat. Gas	(Mio m <sup>3</sup> )	2 822	2 734	2 754	3 008	2 707	-4.08	-10.01
Petroleum	(t)	579 700	536 700	494 000	505 400	449 000	-22.55	-11.16
Total	(t)	8 264 766	8 078 336	8 138 332	8 195 926	7 601 507		

## Jordan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	275 000	275 000	81 000	80 000	80 000	-70.91	0.00
Kaolin	(t)	100 000	60 000	11 935	11 000	11 000	-89.00	0.00
Phosphates	(t)	2 285 990	2 667 520	2 557 170	2 780 030	2 567 170	12.30	-7.66

**Abbreviations:** see Explanation

Potash	(t)	1 275 460	1 436 550	1 222 140	1 415 260	1 485 960	16.50	5.00
Salt	(t)	8 000	10 000	10 000	10 000	10 000	25.00	0.00
Sulfur	(t)	304 800	254 900	130 000	130 000	130 000	-57.35	0.00
Nat. Gas	(Mio m <sup>3</sup> )	130	122	116	102	93	-28.46	-8.82
Petroleum	(t)	800	500	400	300	1 000	25.00	233.33
Total	(t)	4 354 050	4 802 070	4 105 445	4 508 190	4 359 530		

## Kazakhstan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	15 965 110	11 122 150	10 632 570	11 705 660	12 968 800	-18.77	10.79
Chromium	(t)	2 143 900	1 992 400	1 989 500	2 193 500	2 378 200	10.93	8.42
Manganese	(t)	527 000	328 400	323 300	294 900	288 300	-45.29	-2.24
Molybdenum	(t)	0	430	1 941	35	58	.	65.71
Titanium	(t)	20 000	12 770	66 600	65 000	65 000	225.00	0.00
Vanadium	(t)	1 000	1 000	0	0	0	-100.00	.
Aluminium	(t)	207 850	219 000	235 566	254 000	258 400	24.32	1.73
Antimony	(t)	1 000	979	573	350	150	-85.00	-57.14
Bauxite	(t)	4 515 600	4 682 600	4 801 300	4 846 100	6 104 200	35.18	25.96
Bismuth	(t)	150	140	260	200	159	6.00	-20.50
Cadmium	(t)	1 633	1 459	2 682	2 690	850	-47.95	-68.40
Copper	(t)	471 700	467 500	471 500	540 700	632 550	34.10	16.99
Lead	(t)	37 800	40 700	70 500	111 200	86 500	128.84	-22.21
Rhenium	(kg)	300	3 306	6 700	2 600	1 600	433.33	-38.46
Selenium	(t)	50	13	13	40	10	-80.00	-75.00
Zinc	(t)	345 200	342 500	324 800	315 900	304 400	-11.82	-3.64
Gold	(kg)	50 339	63 614	74 737	85 339	100 288	99.23	17.52
Silver	(kg)	983 697	1 306 575	1 182 476	1 041 838	969 347	-1.46	-6.96
Asbestos	(t)	213 100	179 800	192 600	192 700	202 900	-4.79	5.29
Baryte	(t)	655 500	752 300	612 300	569 900	570 000	-13.04	0.02
Bentonite	(t)			119 100	120 000	120 000	.	0.00
Boron	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Gypsum	(t)	113 400	82 300	137 400	133 200	121 400	7.05	-8.86
Phosphates	(t)	349 500	387 100	348 600	368 400	381 200	9.07	3.47
Salt	(t)	596 508	608 627	730 283	803 794	885 717	48.48	10.19
Sulfur	(t)	2 950 000	3 150 000	2 850 000	3 789 700	3 251 250	10.21	-14.21
Steam Coal	(t)	89 185 000	84 773 000	81 856 000	90 910 400	101 085 800	13.34	11.19
Coking Coal	(t)	17 906 000	17 020 000	15 468 000	15 749 700	10 836 000	-39.48	-31.20
Lignite	(t)	6 894 000	5 526 000	5 750 000	5 739 000	6 560 700	-4.83	14.32
Nat. Gas	(Mio m <sup>3</sup> )	31 238	33 386	28 466	31 587	36 350	16.36	15.08
Petroleum	(t)	80 825 600	79 456 300	78 031 800	86 194 400	90 359 500	11.80	4.83
Uranium	(t)	26 920	28 072	29 113	27 500	25 595	-4.92	-6.93
Total	(t)	248 974 955	237 915 714	227 850 365	250 229 699	266 598 710		

Abbreviations: see Explanation

## Kenya

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)			0	2 700	7 000	.	159.26
Titanium	(t)	258 910	319 750	339 480	345 560	340 150	31.38	-1.57
Gold	(kg)	237	337	197	503	472	99.16	-6.16
Diatomite	(t)	1 195	1 090	1 238	1 406	1 548	29.54	10.10
Fluorspar	(t)	97 156	70 096	42 656	6 945	0	-100.00	-100.00
Gypsum	(t)	5 900	5 800	5 760	5 700	5 700	-3.39	0.00
Kaolin	(t)	1 100	1 100	1 000	1 000	1 000	-9.09	0.00
Salt	(t)	18 936	21 201	23 425	43 245	12 419	-34.42	-71.28
Vermiculite	(t)	440	410	100	0	0	-100.00	.
Zircon	(t)	15 004	25 951	39 687	42 217	36 387	142.52	-13.81
Total	(t)	398 641	445 398	453 346	448 774	404 204		

## Korea, North

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	963 600	579 300	600 000	630 000	603 000	-37.42	-4.29
Molybdenum	(t)	250	370	440	480	560	124.00	16.67
Tungsten	(t)	70	72	50	310	1 410	1 914.29	354.84
Cadmium	(t)	200	200	200	200	200	0.00	0.00
Copper	(t)	14 400	15 000	20 000	15 000	15 000	4.17	0.00
Lead	(t)	36 100	32 300	36 800	31 600	35 000	-3.05	10.76
Zinc	(t)	32 000	45 000	64 000	36 000	30 000	-6.25	-16.67
Gold	(kg)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Silver	(kg)	50 000	50 000	50 000	70 000	70 000	40.00	0.00
Baryte	(t)	20	12 000	9 000	4 200	4 200	20 900.00	0.00
Fluorspar	(t)	5 000	4 000	4 525	6 900	6 900	38.00	0.00
Graphite	(t)	30 000	40 000	47 000	50 000	45 000	50.00	-10.00
Magnesite	(t)	180 200	149 599	160 935	172 488	172 500	-4.27	0.01
Phosphates	(t)	95 000	95 000	95 000	95 000	95 000	0.00	0.00
Salt	(t)	500 000	500 000	500 000	500 000	500 000	0.00	0.00
Sulfur	(t)	42 000	20 500	10 000	10 000	10 000	-76.19	0.00
Talc	(t)	50 000	50 000	40 000	40 000	40 000	-20.00	0.00
Steam Coal	(t)	27 090 000	27 490 000	32 827 000	22 271 000	16 899 000	-37.62	-24.12
Total	(t)	29 038 900	29 033 401	34 415 010	23 863 258	18 457 850		

Abbreviations: see Explanation

## Korea, South

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	415 960	267 190	266 810	186 330	229 530	-44.82	23.18
Molybdenum	(t)	490	258	0	0	1	-99.80	.
Titanium	(t)	132 490	112 250	91 800	122 670	117 250	-11.50	-4.42
Tungsten	(t)	12	8	14	0	0	-100.00	.
Cadmium	(t)	4 300	3 620	4 595	4 960	5 100	18.60	2.82
Copper	(t)			117	7	0	.	-100.00
Gallium	(t)	1	2	3	3	3	200.00	0.00
Indium	(t)	150	195	210	215	235	56.67	9.30
Lead	(t)	2 760	2 920	2 840	3 760	2 340	-15.22	-37.77
Zinc	(t)	1 920	2 070	2 260	3 320	3 660	90.63	10.24
Gold	(kg)	283	269	205	285	239	-15.55	-16.14
Silver	(kg)	3 264	4 586	6 579	8 863	7 090	117.22	-20.00
Bentonite	(t)	71 850	78 439	63 834	47 306	31 824	-55.71	-32.73
Diatomite	(t)	65 893	15 310	20 564	133 741	25 902	-60.69	-80.63
Feldspar	(t)	528 958	601 030	654 398	717 177	617 567	16.75	-13.89
Graphite	(t)	0	62	0	0	670	.	.
Kaolin	(t)	429 081	356 866	366 511	416 648	364 249	-15.11	-12.58
Salt	(t)	303 510	342 844	323 470	308 844	282 590	-6.89	-8.50
Sulfur	(t)	1 800 000	1 960 000	2 000 000	2 000 000	2 000 000	11.11	0.00
Talc	(t)	628 349	603 231	592 247	434 292	348 794	-44.49	-19.69
Steam Coal	(t)	1 748 000	1 764 050	1 727 046	1 485 582	1 201 920	-31.24	-19.09
Nat. Gas	(Mio m <sup>3</sup> )	308	180	148	326	293	-4.87	-10.12
Petroleum	(t)	26 960	15 630	14 130	29 610	25 780	-4.38	-12.93
Total	(t)	6 407 087	6 269 980	6 249 256	6 155 274	5 491 822		

## Kosovo

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	1 000	0	0	0	0	-100.00	.
Nickel	(t)	6 720	6 650	4 310	7 120	4 790	-28.72	-32.72
Lead	(t)	7 700	5 400	6 530	5 100	4 700	-38.96	-7.84
Zinc	(t)	5 500	4 000	4 800	4 500	3 600	-34.55	-20.00
Lignite	(t)	7 204 211	8 240 994	8 800 848	7 574 697	7 169 767	-0.48	-5.35
Total	(t)	7 225 131	8 257 044	8 816 488	7 591 417	7 182 857		

## Kuwait

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	56 273	64 289	66 664	67 000	67 000	19.06	0.00
Sulfur	(t)	823 860	753 500	750 000	556 800	671 000	-18.55	20.51

Abbreviations: see Explanation

Nat. Gas (Mio m <sup>3</sup> )		15 029	16 909	17 291	17 102	17 738	18.03	3.72
Petroleum (t)		142 766 600	142 322 500	147 074 800	134 671 200	136 282 700	-4.54	1.20
Total (t)		155 669 933	156 667 489	161 724 264	148 976 600	151 211 100		

## Kyrgyzstan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Tungsten (t)		0	80	0	0	0	.	.
Antimony (t)		1 450	1 200	1 880	1 380	680	-53.10	-50.72
Copper (t)		700	3 100	8 638	8 356	7 944	1 034.86	-4.93
Mercury (t)		46	20	50	10	20	-56.52	100.00
Gold (kg)		18 117	17 015	19 856	22 795	22 316	23.18	-2.10
Silver (kg)		21 182	17 220	15 451	14 168	13 641	-35.60	-3.72
Gypsum (t)		112 000	60 617	98 000	100 000	100 000	-10.71	0.00
Kaolin (t)		9 419	0	0	40 000	40 000	324.67	0.00
Salt (t)		5 300	4 744	7 000	6 000	6 000	13.21	0.00
Steam Coal (t)		291 700	345 000	248 000	246 500	274 800	-5.79	11.48
Lignite (t)		1 505 000	1 584 000	1 603 000	1 628 900	2 031 600	34.99	24.72
Nat. Gas (Mio m <sup>3</sup> )		34	54	30	26	27	-20.59	3.85
Petroleum (t)		81 000	173 000	148 000	173 200	200 000	146.91	15.47
Total (t)		2 033 854	2 214 995	2 138 603	2 225 183	2 682 680		

## Laos

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron (t)		680 840	140 850	69 040	150 000	59 500	-91.26	-60.33
Antimony (t)		620	1 166	242	320	330	-46.77	3.13
Copper (t)		159 696	167 702	167 679	153 304	154 948	-2.97	1.07
Lead (t)		100	190	510	660	330	230.00	-50.00
Tin (t)		782	461	1 005	975	1 395	78.39	43.08
Zinc (t)		2 000	0	750	0	3 080	54.00	.
Gold (kg)		5 260	6 893	6 764	5 988	5 579	6.06	-6.83
Silver (kg)		39 801	51 764	50 904	42 841	37 465	-5.87	-12.55
Baryte (t)		30 610	32 150	33 240	33 325	35 000	14.34	5.03
Gypsum (t)		584 338	989 516	469 436	463 039	618 783	5.89	33.64
Potash (t)		189 400	255 100	198 600	307 600	343 500	81.36	11.67
Salt (t)		51 000	35 100	36 398	37 490	46 863	-8.11	25.00
Steam Coal (t)		105 564	106 028	138 809	133 284	142 994	35.46	7.29
Lignite (t)		26 320	4 464 068	13 097 121	13 439 492	15 903 277	60 322.78	18.33
Total (t)		1 831 315	6 192 390	14 212 888	14 719 538	17 310 043		

**Abbreviations:** see Explanation

## Latvia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	270 120	225 370	224 000	278 260	320 080	18.50	15.03
Total	(t)	270 120	225 370	224 000	278 260	320 080		

## Lebanon

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	15 000	15 000	3 000	3 000	3 000	-80.00	0.00
Total	(t)	15 000	15 000	3 000	3 000	3 000		

## Lesotho

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Diam. (Gem)	(ct)	69 203	60 846	68 403	225 280	258 860	274.06	14.91
Diam. (Ind)	(ct)	276 814	243 386	273 611	901 130	1 035 420	274.05	14.90
Total	(t)	0	0	0	0	0		

## Liberia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	2 952 800	2 717 700	843 100	962 900	2 779 000	-5.89	188.61
Gold	(kg)	620	829	4 704	6 071	7 096	1 044.52	16.88
Diam. (Gem)	(ct)	44 930	39 600	36 220	36 380	45 270	0.76	24.44
Diam. (Ind)	(ct)	29 950	26 400	24 150	24 250	30 180	0.77	24.45
Total	(t)	2 952 801	2 717 701	843 105	962 906	2 779 007		

## Libya

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	150 000	150 000	150 000	150 000	150 000	0.00	0.00
Salt	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Sulfur	(t)	143 000	90 000	75 000	133 300	133 000	-6.99	-0.23
Nat. Gas	(Mio m <sup>3</sup> )	11 830	11 020	9 405	9 592	9 800	-17.16	2.17
Petroleum	(t)	23 897 280	19 996 240	18 809 560	43 757 120	47 544 760	98.95	8.66
Total	(t)	33 684 280	29 082 240	26 588 560	51 744 020	55 697 760		

**Abbreviations:** see Explanation

## Lithuania

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Sulfur	(t)	76 600	84 000	94 520	93 970	93 960	22.66	-0.01
Petroleum	(t)	81 920	73 540	63 470	55 830	46 030	-43.81	-17.55
Total	(t)	158 520	157 540	157 990	149 800	139 990		

## Madagascar

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	60 750	72 620	52 800	102 000	53 500	-11.93	-47.55
Cobalt	(t)	3 221	3 920	3 654	2 967	2 887	-10.37	-2.70
Nickel	(t)	37 046	45 075	42 024	34 123	33 204	-10.37	-2.69
Titanium	(t)	206 700	102 700	152 100	230 700	214 000	3.53	-7.24
Beryllium	(t)	135	140	140	140	140	3.70	0.00
Gold	(kg)	160	160	586	2 834	2 977	1 760.63	5.05
Graphite	(t)	5 316	8 100	9 230	13 300	47 900	801.05	260.15
Salt	(t)	80 000	80 000	80 000	80 000	80 000	0.00	0.00
Zircon	(t)	27 275	11 879	15 582	25 950	22 400	-17.87	-13.68
Total	(t)	420 443	324 434	355 531	489 183	454 034		

## Malawi

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)		0	2 280	3 000	1 540	.	-48.67
Phosphates	(t)	1 900	2 110	430	170	270	-85.79	58.82
Steam Coal	(t)	63 673	58 774	43 338	45 230	49 753	-21.86	10.00
Uranium	(t)	435	0	0	0	0	-100.00	.
Total	(t)	66 008	60 884	46 048	48 400	51 563		

## Malaysia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	6 057 650	1 015 450	1 206 130	2 469 370	2 112 790	-65.12	-14.44
Manganese	(t)	401 010	216 420	294 300	514 950	720 000	79.55	39.82
Tantalum	(t)	26	9	8	6	27	3.85	350.00
Titanium	(t)	7 400	3 590	5 990	8 500	12 500	68.92	47.06

Abbreviations: see Explanation

Aluminium	(t)	440 000	440 000	620 000	760 000	760 000	72.73	0.00
Bauxite	(t)	3 676 876	27 900 000	6 700 000	830 000	589 685	-83.96	-28.95
Rare Earths	(t)	455	565	1 876	302	86	-81.10	-71.52
Tin	(t)	3 777	4 159	4 158	4 819	3 868	2.41	-19.73
Gold	(kg)	4 308	4 854	2 249	2 124	2 978	-30.87	40.21
Silver	(kg)	533	945	1 075	1 404	1 542	189.31	9.83
Baryte	(t)	575	0	0	0	0	-100.00	.
Feldspar	(t)	378 446	442 980	441 856	411 204	412 000	8.87	0.19
Kaolin	(t)	219 652	294 693	392 933	444 559	312 616	42.32	-29.68
Zircon	(t)	677	826	653	1 595	509	-24.82	-68.09
Steam Coal	(t)	2 687 764	2 559 444	2 414 764	2 988 211	2 652 814	-1.30	-11.22
Nat. Gas (Mio m <sup>3</sup> )		65 441	63 425	67 557	70 290	66 735	1.98	-5.06
Petroleum	(t)	30 023 000	32 580 100	33 193 400	32 871 700	32 201 300	7.26	-2.04
Total	(t)	96 250 113	116 198 242	99 321 671	97 537 219	93 166 200		

## Mali

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	45 800	46 503	46 903	49 622	60 893	32.95	22.71
Silver	(kg)	2 489	2 608	2 600	2 900	3 000	20.53	3.45
Total	(t)	48	50	50	53	64		

## Malta

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	1 500	1 600	1 600	1 600	1 600	6.67	0.00
Total	(t)	1 500	1 600	1 600	1 600	1 600		

## Mauritania

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	8 648 800	7 544 600	8 624 200	7 678 500	6 961 700	-19.51	-9.34
Copper	(t)	33 079	45 001	32 818	28 791	28 137	-14.94	-2.27
Gold	(kg)	9 624	8 805	7 127	9 096	9 236	-4.03	1.54
Gypsum	(t)	30 000	70 000	60 000	80 000	130 000	333.33	62.50
Petroleum	(t)	296 000	263 700	235 600	165 600	0	-100.00	-100.00
Total	(t)	9 007 889	7 923 310	8 952 625	7 952 900	7 119 846		



## Mauritius

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Salt	(t)	3 800	1 800	500	1 000	1 000	-73.68	0.00
Total	(t)	3 800	1 800	500	1 000	1 000		

## Mexico

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	9 976 750	8 077 160	8 454 390	7 027 520	8 412 810	-15.68	19.71
Manganese	(t)	235 686	217 466	215 782	218 510	209 023	-11.31	-4.34
Molybdenum	(t)	14 370	11 327	11 896	13 985	20 265	41.02	44.91
Tungsten	(t)				0	45	.	.
Antimony	(t)	266	90	166	240	300	12.78	25.00
Bauxite	(t)	0	0	96 000	0	0	.	.
Bismuth	(t)	948	601	539	513	313	-66.98	-38.99
Cadmium	(t)	1 409	1 283	1 244	1 142	1 307	-7.24	14.45
Copper	(t)	515 025	594 451	793 982	742 246	696 580	35.25	-6.15
Lead	(t)	250 462	263 772	246 755	243 022	230 869	-7.82	-5.00
Mercury	(t)	301	307	267	200	230	-23.59	15.00
Selenium	(t)	120	99	121	112	107	-10.83	-4.46
Zinc	(t)	659 878	786 774	666 896	671 444	662 355	0.38	-1.35
Gold	(kg)	117 771	134 759	133 552	126 820	141 143	19.85	11.29
Silver	(kg)	5 765 662	5 955 151	5 474 968	5 815 034	7 243 245	25.63	24.56
Baryte	(t)	130 914	265 700	173 781	359 912	523 980	300.25	45.59
Bentonite	(t)	519 625	294 236	109 176	148 475	264 800	-49.04	78.35
Diatomite	(t)	87 849	89 810	109 970	96 474	152 028	73.06	57.58
Feldspar	(t)	150 726	159 372	318 169	500 692	907 755	502.26	81.30
Fluorspar	(t)	1 109 721	624 574	659 776	741 678	1 959 089	76.54	164.14
Graphite	(t)	9 160	6 524	14 200	10 310	4 198	-54.17	-59.28
Gypsum	(t)	7 043 563	7 101 612	7 697 838	9 197 520	11 202 793	59.05	21.80
Kaolin	(t)	546 437	366 049	452 070	325 864	898 246	64.38	175.65
Magnesite	(t)	100 000	101 000	101 000	101 000	101 000	1.00	0.00
Perlite	(t)	26 000	13 000	28 431	15 899	26 400	1.54	66.05
Phosphates	(t)	520 040	578 830	988 280	692 150	248 950	-52.13	-64.03
Salt	(t)	10 520 508	9 718 027	10 443 786	9 570 779	10 852 583	3.16	13.39
Sulfur	(t)	992 939	858 527	673 285	551 218	442 657	-55.42	-19.69
Talc	(t)	752 077	20 452	17 263	7 129	8 448	-98.88	18.50
Vermiculite	(t)	226	299	310	464	244	7.96	-47.41
Steam Coal	(t)	13 453 540	7 492 620	8 173 505	7 528 900	6 772 528	-49.66	-10.05
Coking Coal	(t)	2 561 600	2 439 408	5 551 135	4 566 000	4 735 000	84.85	3.70
Nat. Gas (Mio m <sup>3</sup> )		44 360	40 310	34 350	30 470	26 870	-39.43	-11.81
Petroleum	(t)	136 500 500	126 917 250	120 452 130	109 117 210	101 589 830	-25.58	-6.90
Total	(t)	222 174 524	199 254 710	193 937 752	176 832 550	172 428 117		

Abbreviations: see Explanation

## Moldova

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	172 300	194 900	204 400	358 500	352 500	104.59	-1.67
Total	(t)	172 300	194 900	204 400	358 500	352 500		

## Mongolia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	5 745 880	3 704 040	3 407 480	4 309 030	3 486 220	-39.33	-19.10
Molybdenum	(t)	1 999	2 557	2 432	2 640	2 580	29.06	-2.27
Tungsten	(t)	765	877	755	523	430	-43.79	-17.78
Copper	(t)	274 600	335 850	374 260	314 920	309 750	12.80	-1.64
Lead	(t)	520	200	4 720	7 390	11 320	2 076.92	53.18
Tin	(t)	60	41	25	20	25	-58.33	25.00
Zinc	(t)	46 600	44 800	50 100	41 350	43 950	-5.69	6.29
Gold	(kg)	19 963	20 829	18 436	19 849	20 655	3.47	4.06
Silver	(kg)	56 210	79 910	84 920	67 190	64 750	15.19	-3.63
Fluorspar	(t)	313 300	280 300	248 900	319 330	555 230	77.22	73.87
Salt	(t)	1 852	1 686	478	860	997	-46.17	15.93
Steam Coal	(t)	14 126 000	3 882 000	5 496 000	6 286 990	10 628 200	-24.76	69.05
Coking Coal	(t)	6 165 000	12 613 000	19 998 000	25 672 000	27 417 000	344.72	6.80
Lignite	(t)	6 073 000	5 755 000	6 672 000	6 783 000	6 952 800	14.49	2.50
Petroleum	(t)	1 010 100	1 183 000	1 125 300	1 039 900	871 500	-13.72	-16.19
Total	(t)	33 759 752	27 803 452	37 380 553	44 778 040	50 280 088		

## Montenegro

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	42 767	42 499	38 915	39 379	40 163	-6.09	1.99
Bauxite	(t)	155 153	50 369	667 259	927 847	468 164	201.74	-49.54
Lead	(t)	2 120	2 170	2 500	3 050	2 770	30.66	-9.18
Zinc	(t)	7 200	7 000	8 100	8 820	9 680	34.44	9.75
Lignite	(t)	1 655 045	1 772 900	1 397 500	1 474 800	1 595 900	-3.57	8.21
Total	(t)	1 862 285	1 874 938	2 114 274	2 453 896	2 116 677		

## Morocco

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	8 250	6 430	5 510	36 120	37 000	348.48	2.44
Cobalt	(t)	1 391	1 722	2 081	1 924	1 806	29.83	-6.13
Manganese	(t)	45 640	35 850	34 170	49 500	50 000	9.55	1.01
Nickel	(t)	0	0	0	196	126	.	-35.71
Antimony	(t)	1 380	0	0	0	0	-100.00	.
Arsenic	(t)	6 863	7 567	6 122	6 879	5 578	-18.72	-18.91
Copper	(t)	22 360	26 850	31 810	35 420	34 500	54.29	-2.60
Lead	(t)	27 530	32 160	28 670	38 040	50 900	84.89	33.81
Mercury	(t)	20	20	20	10	10	-50.00	0.00
Zinc	(t)	45 410	53 750	43 020	51 700	51 000	12.31	-1.35
Gold	(kg)	377	448	352	220	160	-57.56	-27.27
Silver	(kg)	189 147	247 490	268 523	238 530	155 000	-18.05	-35.02
Baryte	(t)	1 006 600	1 212 130	668 500	818 016	800 000	-20.52	-2.20
Bentonite	(t)	98 757	92 290	103 230	174 546	175 000	77.20	0.26
Feldspar	(t)	45 000	32 000	33 600	101 064	101 000	124.44	-0.06
Fluorspar	(t)	79 840	80 890	73 920	75 509	76 000	-4.81	0.65
Phosphates	(t)	8 748 400	8 388 700	8 601 000	10 490 100	10 960 200	25.28	4.48
Salt	(t)	439 160	555 760	634 610	659 263	660 000	50.29	0.11
Nat. Gas	(Mio m <sup>3</sup> )	94	87	80	81	87	-7.45	7.41
Petroleum	(t)	5 200	4 998	4 841	4 640	4 840	-6.92	4.31
Total	(t)	10 657 190	10 600 964	10 335 373	12 607 966	13 077 715		

## Mozambique

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Niobium	(t)	9	5	7	10	10	11.11	0.00
Tantalum	(t)	50	28	41	57	54	8.00	-5.26
Titanium	(t)	475 800	425 600	504 200	557 700	535 700	12.59	-3.94
Aluminium	(t)	566 880	558 390	571 125	577 495	571 125	0.75	-1.10
Bauxite	(t)	3 386	4 985	1 451	3 182	9 912	192.73	211.50
Beryllium	(t)	3	312	181	53	416	13 766.67	684.91
Gold	(kg)	197	242	201	166	507	157.36	205.42
Bentonite	(t)	739	350	322	285	1 091	47.63	282.81
Diatomite	(t)	78	0	1 305	0	34 200	43 746.15	.
Graphite	(t)			0	802	104 000	.	12 867.58
Salt	(t)	24 228	12 005	10 127	21 458	27 729	14.45	29.22
Zircon	(t)	50 800	51 800	68 200	74 000	74 700	47.05	0.95
Steam Coal	(t)	2 546 586	1 813 717	2 214 199	4 391 833	6 891 201	170.61	56.91
Coking Coal	(t)	3 784 603	4 786 612	3 972 122	7 385 930	8 355 292	120.77	13.12
Nat. Gas	(Mio m <sup>3</sup> )	4 710	5 050	5 160	5 110	5 140	9.13	0.59
Petroleum	(t)	40 690	63 720	65 080	55 790	56 690	39.32	1.61
Total	(t)	11 261 852	11 757 524	11 536 360	17 156 595	20 774 121		

Abbreviations: see Explanation

## Myanmar

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	96 800	28 000	116 000	136 600	207 500	114.36	51.90
Nickel	(t)	21 000	26 400	25 000	29 250	17 750	-15.48	-39.32
Tungsten	(t)	100	250	170	330	300	200.00	-9.09
Antimony	(t)	3 360	3 000	2 000	4 500	2 000	-40.48	-55.56
Copper	(t)	33 200	69 850	94 390	126 930	179 310	440.09	41.27
Lead	(t)	18 000	13 600	21 600	14 890	24 930	38.50	67.43
Tin	(t)	35 000	58 000	61 400	67 300	54 500	55.71	-19.02
Zinc	(t)	6 100	4 850	6 500	13 150	12 240	100.66	-6.92
Gold	(kg)	1 315	1 692	1 446	1 620	203	-84.56	-87.47
Baryte	(t)	23 060	4 535	2 627	3 206	9 658	-58.12	201.25
Bentonite	(t)	0	700	600	600	540	.	-10.00
Gypsum	(t)	70 196	94 395	245 789	361 015	309 343	340.68	-14.31
Salt	(t)	162 089	133 815	212 041	158 499	189 146	16.69	19.34
Steam Coal	(t)	642 000	697 000	317 000	646 900	316 000	-50.78	-51.15
Lignite	(t)	50 000	54 000	233 000	90 000	233 000	366.00	158.89
Nat. Gas (Mio m <sup>3</sup> )		16 770	19 560	18 980	18 660	16 040	-4.35	-14.04
Petroleum	(t)	808 900	697 900	608 800	573 400	480 500	-40.60	-16.20
Total	(t)	15 385 806	17 534 297	17 130 918	17 154 572	14 868 717		

## Namibia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	0	2 680	5 680	1 640	8 730	.	432.32
Manganese	(t)	32 000	10 110	5 050	9 820	8 800	-72.50	-10.39
Arsenic	(t)	1 980	2 000	1 960	700	0	-100.00	-100.00
Copper	(t)	5 086	13 913	16 391	15 466	5 900	16.00	-61.85
Lead	(t)	11 700	9 700	6 800	5 805	4 291	-63.32	-26.08
Lithium	(t)				0	600	.	.
Zinc	(t)	156 300	123 675	132 470	131 920	118 310	-24.31	-10.32
Gold	(kg)	2 140	6 410	7 062	7 800	6 632	209.91	-14.97
Silver	(kg)	1 128	877	4 702	6 490	3 850	241.31	-40.68
Diam. (Gem)	(ct)	1 791 002	1 676 108	1 494 350	1 713 800	1 985 670	10.87	15.86
Diam. (Ind)	(ct)	94 263	88 216	78 650	90 200	104 510	10.87	15.86
Fluorspar	(t)	99 984	0	0	0	0	-100.00	.
Graphite	(t)			0	2 216	3 456	.	55.96
Salt	(t)	797 405	732 980	835 539	866 586	1 151 153	44.36	32.84
Uranium	(t)	3 839	3 473	4 308	4 981	6 514	69.68	30.78
Total	(t)	1 108 297	898 538	1 008 210	1 039 148	1 307 765		

Abbreviations: see Explanation

## Nauru

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Phosphates	(t)	58 000	45 700	39 800	50 900	23 000	-60.34	-54.81
Total	(t)	58 000	45 700	39 800	50 900	23 000		

## Nepal

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)			0	350	180	.	-48.57
Magnesite	(t)	225	60	0	0	0	-100.00	.
Talc	(t)	5 703	5 255	1 860	7 096	8 557	50.04	20.59
Steam Coal	(t)	8 151	6 754	2 900	10 237	11 522	41.36	12.55
Total	(t)	14 079	12 069	4 760	17 683	20 259		

## Netherlands

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	800	27 700	36 300	29 300	90 000	11 150.00	207.17
Cadmium	(t)	600	620	620	620	600	0.00	-3.23
Indium	(t)	5	0	0	0	0	-100.00	.
Salt	(t)	6 485 000	6 742 969	6 625 418	6 935 000	6 750 546	4.09	-2.66
Nat. Gas	(Mio m <sup>3</sup> )	68 629	52 131	50 324	43 867	36 707	-46.51	-16.32
Petroleum	(t)	1 943 700	1 844 700	1 273 800	1 222 000	1 129 300	-41.90	-7.59
Total	(t)	63 333 305	50 320 789	48 195 338	43 280 520	37 336 046		

## New Caledonia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Cobalt	(t)	4 040	3 960	5 720	5 080	3 770	-6.68	-25.79
Nickel	(t)	175 174	193 199	204 207	215 382	216 225	23.43	0.39
Total	(t)	179 214	197 159	209 927	220 462	219 995		

**Abbreviations:** see Explanation

## New Zealand

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	1 882 310	1 852 360	2 027 560	2 324 640	2 100 000	11.57	-9.66
Aluminium	(t)	328 269	335 292	338 556	336 740	340 678	3.78	1.17
Gold	(kg)	11 989	12 687	9 866	10 288	10 045	-16.21	-2.36
Silver	(kg)	15 811	12 498	7 960	8 022	6 332	-59.95	-21.07
Bentonite	(t)	1 000	700	700	700	4 482	348.20	540.29
Diatomite	(t)	43 624	0	0	0	0	-100.00	.
Kaolin	(t)	61 382	13 659	61 650	50 424	51 369	-16.31	1.87
Salt	(t)	65 000	101 000	102 000	102 000	100 000	53.85	-1.96
Steam Coal	(t)	1 900 000	1 732 000	1 386 000	1 426 000	1 689 400	-11.08	18.47
Coking Coal	(t)	1 760 000	1 333 000	1 171 000	1 173 100	1 213 400	-31.06	3.44
Lignite	(t)	316 692	324 086	313 035	319 487	307 378	-2.94	-3.79
Nat. Gas (Mio m <sup>3</sup> )		4 999	4 606	4 763	4 761	4 161	-16.76	-12.60
Petroleum	(t)	1 750 770	1 860 880	1 572 040	1 399 820	1 085 650	-37.99	-22.44
Total	(t)	12 108 275	11 237 802	10 782 959	10 941 729	10 221 173		

## Nicaragua

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	8 160	7 612	8 391	7 367	7 703	-5.60	4.56
Silver	(kg)	13 889	18 577	21 382	15 419	11 263	-18.91	-26.95
Gypsum	(t)	57 390	50 374	41 750	66 740	70 341	22.57	5.40
Salt	(t)	55 200	55 000	55 000	50 000	50 000	-9.42	0.00
Total	(t)	112 612	105 401	96 779	116 762	120 360		

## Niger

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	732	1 220	999	914	6 207	747.95	579.10
Silver	(kg)	67	100	100	100	300	347.76	200.00
Steam Coal	(t)	255 936	221 024	246 631	233 792	221 580	-13.42	-5.22
Petroleum	(t)	853 400	744 600	820 300	909 200	827 300	-3.06	-9.01
Uranium	(t)	4 901	4 852	4 101	4 066	3 433	-29.95	-15.57
Total	(t)	1 114 238	970 477	1 071 033	1 147 059	1 052 319		

Abbreviations: see Explanation

## Nigeria

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	20 000	20 000	700	0	700	-96.50	.
Manganese	(t)	70	510	20 330	13 550	62 220	88 785.71	359.19
Niobium	(t)	30	29	104	122	181	503.33	48.36
Tantalum	(t)	75	72	66	480	230	206.67	-52.08
Tungsten	(t)	0	27	8	12	66	.	450.00
Beryllium	(t)	52	56	0	0	35	-32.69	.
Lead	(t)	11 400	16 000	14 500	24 260	17 900	57.02	-26.22
Lithium	(t)				0	50	.	.
Tin	(t)	2 485	2 298	3 443	8 260	7 850	215.90	-4.96
Zinc	(t)	7 000	14 200	13 400	22 130	26 920	284.57	21.64
Gold	(kg)	7 100	7 000	7 000	7 000	10 000	40.85	42.86
Baryte	(t)	7 113	3 323	537	717	387	-94.56	-46.03
Feldspar	(t)	60 580	25 280	34 144	27 660	41 355	-31.73	49.51
Gypsum	(t)	31 791	34 621	28 000	39 939	39 052	22.84	-2.22
Kaolin	(t)	19 200	20 000	24 104	46 935	11 707	-39.03	-75.06
Talc	(t)		0	667	1 897	2 668	.	40.64
Zircon	(t)	1 034	1 825	891	4 086	1 421	37.43	-65.22
Steam Coal	(t)	127 467	144 880	989 155	397 214	352 679	176.68	-11.21
Nat. Gas (Mio m <sup>3</sup> )		44 580	52 700	48 640	50 630	50 810	13.97	0.36
Petroleum	(t)	95 410 000	106 050 000	89 588 000	94 081 000	95 675 000	0.28	1.69
Total	(t)	131 362 304	148 493 128	129 630 056	135 172 269	136 888 431		

## North Macedonia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Copper	(t)	10 241	11 102	10 429	8 966	7 718	-24.64	-13.92
Lead	(t)	43 810	37 920	31 030	39 850	42 300	-3.45	6.15
Zinc	(t)	31 570	29 150	24 870	27 510	29 720	-5.86	8.03
Gold	(kg)	480	494	664	972	767	59.79	-21.09
Silver	(kg)	23 910	17 660	13 970	17 630	18 570	-22.33	5.33
Bentonite	(t)	16 920	9 012	1 968	912	2 945	-82.59	222.92
Feldspar	(t)	18 076	20 289	19 919	21 237	30 813	70.46	45.09
Gypsum	(t)	156 492	172 525	202 582	217 491	230 029	46.99	5.76
Talc	(t)	483	598	729	478	559	15.73	16.95
Lignite	(t)	6 482 070	5 936 597	5 130 055	5 056 918	4 946 486	-23.69	-2.18
Total	(t)	6 759 686	6 217 211	5 421 597	5 373 381	5 290 590		

Abbreviations: see Explanation

## Norway

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	2 466 600	2 252 200	1 425 000	992 700	1 129 900	-54.19	13.82
Molybdenum	(t)	2	1	1	0	0	-100.00	.
Nickel	(t)	290	300	230	190	170	-41.38	-10.53
Titanium	(t)	380 010	277 340	260 000	238 200	176 370	-53.59	-25.96
Aluminium	(t)	1 182 000	1 227 787	1 247 000	1 253 000	1 295 000	9.56	3.35
Cadmium	(t)	320	310	335	416	380	18.75	-8.65
Bentonite	(t)				0	3 234	.	.
Feldspar	(t)	1 278	76	0	0	0	-100.00	.
Graphite	(t)	8 308	9 185	9 600	9 600	10 000	20.37	4.17
Gypsum	(t)	79 740	77 403	82 386	87 891	89 655	12.43	2.01
Salt	(t)	4 600	7 600	10 632	10 000	56 000	1 117.39	460.00
Sulfur	(t)	130 000	110 000	110 000	100 000	120 000	-7.69	20.00
Steam Coal	(t)	1 701 077	1 203 382	960 341	134 433	154 200	-90.94	14.70
Nat. Gas (Mio m <sup>3</sup> )		108 105	117 008	116 767	124 664	122 203	13.04	-1.97
Petroleum	(t)	86 278 400	88 924 200	91 424 500	89 849 400	84 183 200	-2.43	-6.31
Total	(t)	178 716 625	187 696 184	188 943 625	192 407 030	184 980 509		

## Oman

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	300 480	179 680	232 820	181 090	353 630	17.69	95.28
Manganese	(t)	9 380	3 950	3 660	3 400	11 170	19.08	228.53
Aluminium	(t)	364 000	377 186	386 395	252 714	379 775	4.33	50.28
Copper	(t)	15 140	8 650	0	0	0	-100.00	.
Gypsum	(t)	3 387 300	6 251 900	7 933 617	8 438 286	9 659 683	185.17	14.47
Kaolin	(t)	66 600	169 500	188 300	218 600	110 300	65.62	-49.54
Salt	(t)	12 900	12 600	12 100	18 035	11 537	-10.57	-36.03
Sulfur	(t)	41 950	43 295	35 560	59 140	84 990	102.60	43.71
Nat. Gas (Mio m <sup>3</sup> )		30 411	31 811	32 601	33 172	35 545	16.88	7.15
Petroleum	(t)	46 972 000	48 844 500	50 135 200	48 308 200	48 710 000	3.70	0.83
Total	(t)	75 498 550	81 340 061	85 008 452	84 017 065	87 757 085		

## Pakistan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	74 890	124 990	164 220	190 630	257 340	243.62	34.99
Chromium	(t)	34 230	40 700	27 730	42 100	38 970	13.85	-7.43
Antimony	(t)	979	114	21	15	20	-97.96	33.33
Bauxite	(t)	31 156	24 689	57 024	75 375	146 045	368.75	93.76

Abbreviations: see Explanation



Copper	(t)	13 122	13 056	14 136	10 052	12 538	-4.45	24.73
Lead	(t)	1 195	136	1 196	3 050	4 820	303.35	58.03
Zinc	(t)	0	0	7 700	19 460	26 980	.	38.64
Baryte	(t)	133 658	118 773	157 858	91 711	88 847	-33.53	-3.12
Bentonite	(t)	40 374	23 283	42 038	41 635	74 268	83.95	78.38
Feldspar	(t)	92 672	38 568	316 289	273 468	151 743	63.74	-44.51
Fluorspar	(t)	7 500	5 960	9 494	2 263	2 777	-62.97	22.71
Gypsum	(t)	1 326 437	1 417 007	1 871 716	2 079 629	2 475 893	86.66	19.05
Kaolin	(t)	16 191	18 956	21 683	28 670	19 563	20.83	-31.76
Magnesite	(t)	3 770	4 581	35 228	19 656	23 596	525.89	20.04
Phosphates	(t)	18 350	15 230	20 730	11 100	0	-100.00	-100.00
Salt	(t)	2 530 507	2 404 116	3 867 325	3 806 888	3 647 584	44.14	-4.18
Sulfur	(t)	35 672	19 730	14 869	23 740	22 040	-38.21	-7.16
Talc	(t)	89 022	116 223	125 985	152 279	141 504	58.95	-7.08
Steam Coal	(t)	3 340 192	3 407 659	3 749 312	3 953 992	4 477 555	34.05	13.24
Nat. Gas (Mio m <sup>3</sup> )		42 302	41 511	41 958	41 684	41 313	-2.34	-0.89
Petroleum	(t)	4 155 885	4 627 053	4 246 335	4 329 141	4 441 610	6.88	2.60
Uranium	(t)	53	53	53	53	53	0.00	0.00
Total	(t)	45 787 455	45 629 677	48 317 342	48 502 107	49 104 146		

## Panama

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	11	0	0	0	0	-100.00	.
Salt	(t)	25 660	23 267	23 470	18 637	17 281	-32.65	-7.28
Total	(t)	25 660	23 267	23 470	18 637	17 281		

## Papua New Guinea

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	42 570	45 000	23 400	34 470	40 290	-5.36	16.88
Cobalt	(t)	2 134	2 505	2 187	3 307	3 275	53.47	-0.97
Nickel	(t)	20 988	25 582	22 234	34 664	35 354	68.45	1.99
Copper	(t)	75 901	45 185	80 022	105 448	96 277	26.85	-8.70
Gold	(kg)	56 387	57 633	61 785	61 678	67 282	19.32	9.09
Silver	(kg)	84 379	73 166	95 879	69 650	72 943	-13.55	4.73
Nat. Gas (Mio m <sup>3</sup> )		1 639	2 941	3 128	3 286	2 914	77.79	-11.32
Petroleum	(t)	2 395 600	2 951 500	2 907 400	2 656 600	1 898 700	-20.74	-28.53
Total	(t)	3 848 533	5 422 703	5 537 801	5 463 421	4 405 236		

**Abbreviations:** see Explanation

## Paraguay

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	4 500	4 500	4 500	4 500	4 500	0.00	0.00
Kaolin	(t)	10 000	6 000	6 000	6 000	6 000	-40.00	0.00
Total	(t)	14 500	10 500	10 500	10 500	10 500		

## Peru

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	7 192 590	7 320 810	7 663 120	8 806 450	9 533 870	32.55	8.26
Manganese	(t)		0	1 194	1 133	17 203	.	1 418.36
Molybdenum	(t)	17 018	20 153	25 757	28 141	28 034	64.73	-0.38
Tungsten	(t)	61	110	154	0	0	-100.00	.
Antimony	(t)	244	250	0	0	0	-100.00	.
Arsenic	(t)		0	23 252	22 403	20 376	.	-9.05
Bismuth	(t)	188	0	188	123	145	-22.87	17.89
Cadmium	(t)	769	757	820	797	765	-0.52	-4.02
Copper	(t)	1 377 642	1 700 817	2 353 859	2 445 585	2 436 951	76.89	-0.35
Indium	(t)	14	9	5	5	5	-64.29	0.00
Lead	(t)	277 294	315 525	314 422	306 784	289 195	4.29	-5.73
Selenium	(t)	40	40	45	50	55	37.50	10.00
Tellurium	(t)	9	0	0	0	0	-100.00	.
Tin	(t)	23 105	19 511	18 789	17 790	18 601	-19.49	4.56
Zinc	(t)	1 315 475	1 421 218	1 337 081	1 473 073	1 474 674	12.10	0.11
Gold	(kg)	140 097	146 823	153 006	151 964	142 643	1.82	-6.13
Silver	(kg)	3 768 147	4 101 568	4 375 337	4 417 987	4 162 658	10.47	-5.78
Baryte	(t)	106 071	28 407	7 953	9 182	15 621	-85.27	70.13
Bentonite	(t)	37 375	21 341	19 410	756	2 383	-93.62	215.21
Boron	(t)	239 725	578 910	33 792	0	100 552	-58.06	.
Diatomite	(t)	151 398	120 672	107 265	96 590	96 532	-36.24	-0.06
Feldspar	(t)	18 019	16 979	16 630	14 930	31 588	75.30	111.57
Gypsum	(t)	543 856	438 025	257 423	286 657	458 479	-15.70	59.94
Kaolin	(t)	19 964	43 251	19 098	17 700	16 004	-19.84	-9.58
Phosphates	(t)	4 136 020	4 241 420	4 013 220	3 211 140	3 917 140	-5.29	21.99
Salt	(t)	1 175 157	1 471 131	1 450 415	1 481 398	1 509 564	28.46	1.90
Sulfur	(t)	533 800	565 500	551 100	536 200	552 800	3.56	3.10
Talc	(t)	46 706	52 990	29 379	42 123	47 309	1.29	12.31
Steam Coal	(t)	229 213	251 788	268 883	301 446	218 787	-4.55	-27.42
Nat. Gas (Mio m <sup>3</sup> )		12 924	12 495	14 001	12 942	12 721	-1.57	-1.71
Petroleum	(t)	8 599 600	7 438 300	6 744 300	6 688 300	6 688 500	-22.22	0.00
Total	(t)	36 384 461	36 068 163	36 462 882	36 146 926	37 656 239		

Abbreviations: see Explanation

## Philippines

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	92 300	64 300	10 300	0	0	-100.00	.
Chromium	(t)	18 820	6 200	10 300	8 340	18 000	-4.36	115.83
Cobalt	(t)	4 094	3 900	3 500	3 700	3 600	-12.07	-2.70
Nickel	(t)	393 262	415 021	300 506	339 377	344 915	-12.29	1.63
Copper	(t)	91 922	83 835	83 649	68 156	69 933	-23.92	2.61
Selenium	(t)	70	70	90	100	100	42.86	0.00
Gold	(kg)	18 423	20 643	23 053	22 749	20 765	12.71	-8.72
Silver	(kg)	23 005	29 780	35 186	31 737	29 782	29.46	-6.16
Bentonite	(t)	3 370	3 480	3 230	2 620	660	-80.42	-74.81
Feldspar	(t)	34 232	38 067	46 630	47 000	47 000	37.30	0.00
Kaolin	(t)	7 050	8 179	10 059	10 000	10 000	41.84	0.00
Magnesite	(t)	6 200	7 158	10 310	10 000	10 000	61.29	0.00
Perlite	(t)	17 134	35 675	38 745	39 000	39 000	127.62	0.00
Phosphates	(t)	4 340	5 930	8 690	8 600	8 600	98.16	0.00
Salt	(t)	1 050 000	1 000 000	1 238 610	1 250 000	1 250 000	19.05	0.00
Sulfur	(t)	84 800	1 026 400	1 134 400	1 056 400	1 100 000	1 197.17	4.13
Steam Coal	(t)	8 420 000	8 170 000	11 211 000	11 932 000	13 055 840	55.06	9.42
Nat. Gas	(Mio m <sup>3</sup> )	3 691	3 470	3 979	3 942	4 270	15.69	8.32
Petroleum	(t)	988 200	839 700	838 800	750 300	726 300	-26.50	-3.20
Total	(t)	14 168 635	14 483 966	18 132 077	18 679 248	20 099 999		

## Poland

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nickel	(t)	780	840	770	720	660	-15.38	-8.33
Cadmium	(t)	628	383	200	309	305	-51.43	-1.29
Copper	(t)	421 285	425 870	424 276	419 300	401 300	-4.74	-4.29
Lead	(t)	83 150	49 000	43 060	39 000	40 210	-51.64	3.10
Rhenium	(kg)	5 335	6 346	6 443	7 564	6 290	17.90	-16.84
Selenium	(t)	90	87	82	74	66	-26.67	-10.81
Zinc	(t)	70 000	65 000	61 000	50 000	43 000	-38.57	-14.00
Gold	(kg)	226	431	402	572	523	131.42	-8.57
Palladium	(kg)	25	20	30	7	5	-80.00	-28.57
Platinum	(kg)	40	40	50	11	8	-80.00	-27.27
Silver	(kg)	1 186 014	1 209 094	1 264 659	1 289 900	1 264 300	6.60	-1.98
Bentonite	(t)	650	450	1 000	0	560	-13.85	.
Diatomite	(t)	590	600	500	500	580	-1.69	16.00
Feldspar	(t)	68 910	76 540	88 140	91 200	71 480	3.73	-21.62
Gypsum	(t)	1 052 470	1 018 450	1 043 000	1 108 000	1 042 000	-0.99	-5.96
Kaolin	(t)	277 900	286 650	299 830	284 650	310 850	11.86	9.20
Magnesite	(t)	92 000	96 000	77 920	101 920	102 110	10.99	0.19
Salt	(t)	4 265 085	3 468 000	4 079 000	4 660 000	4 125 000	-3.28	-11.48
Sulfur	(t)	629 620	651 420	645 000	686 210	641 000	1.81	-6.59

Abbreviations: see Explanation

Steam Coal	(t)	60 252 000	59 191 000	57 181 000	52 999 000	42 757 000	-29.04	-19.32
Coking Coal	(t)	12 288 000	12 985 000	13 204 000	12 380 000	17 890 000	45.59	44.51
Lignite	(t)	64 002 000	63 135 000	60 273 000	63 060 000	61 144 000	-4.47	-3.04
Nat. Gas (Mio m <sup>3</sup> )		5 258	5 214	5 073	5 009	4 926	-6.31	-1.66
Petroleum	(t)	918 750	898 870	957 050	939 240	937 040	1.99	-0.23
<b>Total</b>	<b>(t)</b>	<b>148 631 499</b>	<b>146 521 575</b>	<b>142 438 499</b>	<b>140 828 622</b>	<b>133 449 232</b>		

## Portugal

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Tungsten	(t)	671	474	549	669	716	6.71	7.03
Copper	(t)	75 433	83 081	74 352	63 812	49 064	-34.96	-23.11
Lead	(t)	3 191	3 077	4 126	5 164	19 440	509.21	276.45
Lithium	(t)	208	204	307	604	914	339.42	51.32
Tin	(t)	75	42	54	81	111	48.00	37.04
Zinc	(t)	67 384	66 871	71 052	71 357	144 983	115.16	103.18
Silver	(kg)	43 172	41 337	38 631	40 186	55 706	29.03	38.62
Feldspar	(t)	70 865	93 789	132 105	126 211	130 475	84.12	3.38
Gypsum	(t)	328 730	309 966	255 026	152 059	232 921	-29.15	53.18
Kaolin	(t)	264 872	251 582	283 571	307 982	300 265	13.36	-2.51
Salt	(t)	69 702	30 008	6 092	7 800	6 201	-91.10	-20.50
Talc	(t)	14 942	11 204	11 699	13 600	10 144	-32.11	-25.41
<b>Total</b>	<b>(t)</b>	<b>896 116</b>	<b>850 339</b>	<b>838 972</b>	<b>749 379</b>	<b>895 290</b>		

## Qatar

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	612 000	610 000	612 000	620 000	616 000	0.65	-0.65
Sulfur	(t)	2 136 000	2 377 000	2 419 000	2 000 000	1 767 000	-17.28	-11.65
Nat. Gas (Mio m <sup>3</sup> )		159 994	166 785	168 918	168 311	170 934	6.84	1.56
Petroleum	(t)	79 898 000	77 328 000	79 494 000	76 063 500	76 977 200	-3.66	1.20
<b>Total</b>	<b>(t)</b>	<b>210 641 200</b>	<b>213 743 000</b>	<b>217 659 400</b>	<b>213 332 300</b>	<b>216 107 400</b>		

## Romania

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese	(t)	4 880	4 200	1 550	5 660	5 020	2.87	-11.31
Aluminium	(t)	263 098	271 356	272 507	282 074	282 810	7.49	0.26
Copper	(t)	7 680	7 710	8 390	8 160	8 165	6.32	0.06
Lead	(t)	570	200	120	720	1 200	110.53	66.67
Zinc	(t)	3 120	2 900	1 500	770	330	-89.42	-57.14

**Abbreviations:** see Explanation

Gold	(kg)	500	500	500	960	900	80.00	-6.25
Silver	(kg)	18 000	18 000	18 000	18 000	18 000	0.00	0.00
Bentonite	(t)	18 583	19 355	24 996	28 005	34 809	87.32	24.30
Feldspar	(t)	7 570	13 244	4 501	5 000	20 000	164.20	300.00
Gypsum	(t)	815 586	888 746	714 273	764 786	749 668	-8.08	-1.98
Kaolin	(t)	30 638	31 000	31 000	31 000	7 220	-76.43	-76.71
Salt	(t)	2 058 292	2 180 000	2 100 000	2 340 000	2 355 000	14.42	0.64
Steam Coal	(t)	80 000	10 000	0	0	0	-100.00	.
Lignite	(t)	23 565 000	25 492 000	22 980 000	25 752 300	23 647 150	0.35	-8.17
Nat. Gas	(Mio m <sup>3</sup> )	11 056	11 092	9 811	10 582	10 278	-7.04	-2.87
Petroleum	(t)	4 052 000	4 003 000	3 801 000	3 635 000	3 577 000	-11.72	-1.60
Uranium	(t)	91	91	59	0	0	-100.00	.
Total	(t)	39 751 927	41 797 421	37 788 715	41 319 094	38 910 791		

## Russia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	58 465 000	58 465 000	57 200 000	57 970 000	58 575 000	0.19	1.04
Chromium	(t)	214 200	226 400	186 000	195 200	202 800	-5.32	3.89
Cobalt	(t)	5 400	5 800	5 600	4 700	5 330	-1.30	13.40
Molybdenum	(t)	3 114	3 254	3 359	3 227	2 400	-22.93	-25.63
Nickel	(t)	264 000	261 000	223 000	221 000	218 000	-17.42	-1.36
Niobium	(t)	581	628	628	648	669	15.15	3.24
Tantalum	(t)	40	32	49	45	41	2.50	-8.89
Titanium	(t)	88 800	88 850	18 880	3 300	3 600	-95.95	9.09
Tungsten	(t)	2 659	2 642	2 707	2 144	2 234	-15.98	4.20
Vanadium	(t)	15 125	16 196	16 886	18 636	17 052	12.74	-8.50
Aluminium	(t)	3 488 000	3 529 000	3 561 000	3 583 000	3 621 000	3.81	1.06
Antimony	(t)	6 400	7 420	6 620	6 120	6 735	5.23	10.05
Arsenic	(t)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Bauxite	(t)	6 056 000	5 661 000	6 095 000	5 845 000	7 057 000	16.53	20.74
Bismuth	(t)	40	40	30	30	30	-25.00	0.00
Cadmium	(t)	1 000	1 186	1 100	1 200	927	-7.30	-22.75
Copper	(t)	691 500	711 400	702 300	762 300	785 300	13.56	3.02
Gallium	(t)	4	4	4	5	6	50.00	20.00
Germanium	(t)	6	6	6	6	6	0.00	0.00
Indium	(t)	43	40	5	5	4	-90.70	-20.00
Lead	(t)	196 000	180 000	204 300	210 800	220 000	12.24	4.36
Mercury	(t)	50	50	50	50	50	0.00	0.00
Rare Earths	(t)	2 134	2 312	3 063	2 500	2 596	21.65	3.84
Rhenium	(kg)	1 500	1 500	1 500	1 500	1 000	-33.33	-33.33
Selenium	(t)	170	180	197	194	185	8.82	-4.64
Tellurium	(t)	33	35	40	44	35	6.06	-20.45
Tin	(t)	321	578	627	3 300	1 531	376.95	-53.61
Zinc	(t)	193 900	213 800	245 800	255 200	261 000	34.61	2.27
Gold	(kg)	249 065	255 200	253 580	270 300	279 850	12.36	3.53
Palladium	(kg)	80 530	75 710	86 500	76 270	92 570	14.95	21.37
Platinum	(kg)	21 770	20 839	22 300	22 400	21 370	-1.84	-4.60
Rhodium	(kg)	2 488	2 488	2 644	2 426	2 146	-13.75	-11.54
Silver	(kg)	1 433 871	1 580 058	1 449 423	1 306 347	1 349 890	-5.86	3.33

Abbreviations: see Explanation

Asbestos	(t)	733 068	647 690	713 675	710 250	752 500	2.65	5.95
Baryte	(t)	215 000	210 000	434 000	221 000	265 300	23.40	20.05
Bentonite	(t)	500 000	498 000	589 600	669 700	714 000	42.80	6.61
Boron	(t)	81 234	82 000	78 800	82 500	88 000	8.33	6.67
Diam. (Gem)	(ct)	22 982 100	25 147 434	24 431 760	21 860 500	22 973 133	-0.04	5.09
Diam. (Ind)	(ct)	15 321 400	16 764 956	16 287 840	20 754 280	20 187 926	31.76	-2.73
Feldspar	(t)	208 000	205 000	278 100	293 300	281 300	35.24	-4.09
Fluorspar	(t)	8 200	1 000	3 000	2 700	6 000	-26.83	122.22
Graphite	(t)	15 000	15 900	19 400	25 400	19 200	28.00	-24.41
Gypsum	(t)	4 419 000	4 223 000	4 200 000	3 750 000	5 453 400	23.41	45.42
Kaolin	(t)	787 000	786 000	1 064 800	1 593 000	1 485 900	88.81	-6.72
Magnesite	(t)	1 969 800	1 709 100	1 188 900	1 397 000	1 571 400	-20.23	12.48
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	4 173 000	4 485 000	4 797 000	5 148 000	5 304 000	27.10	3.03
Potash	(t)	7 260 000	6 840 000	6 480 000	7 300 000	7 155 000	-1.45	-1.99
Salt	(t)	4 338 000	4 377 000	6 687 000	7 073 000	6 710 000	54.68	-5.13
Sulfur	(t)	7 300 000	6 720 000	6 960 000	7 000 000	7 170 000	-1.78	2.43
Talc	(t)	150 000	150 000	150 000	150 000	150 000	0.00	0.00
Vermiculite	(t)	21 000	21 000	20 000	14 400	25 904	23.35	79.89
Zircon	(t)	7 930	8 180	7 704	7 324	7 400	-6.68	1.04
Steam Coal	(t)	211 800 000	215 500 000	226 526 100	246 751 300	260 554 200	23.02	5.59
Coking Coal	(t)	76 300 000	82 900 000	83 800 000	86 200 000	91 600 000	20.05	6.26
Lignite	(t)	68 900 000	73 600 000	73 500 000	74 900 000	80 500 000	16.84	7.48
Nat. Gas (Mio m <sup>3</sup> )		629 500	621 060	606 300	680 800	711 300	12.99	4.48
Petroleum	(t)	526 650 000	533 551 300	547 306 140	546 742 200	555 833 900	5.54	1.66
Uranium	(t)	3 526	3 602	3 543	3 440	3 424	-2.89	-0.47
Total	(t)	1 489 182 575	1 502 807 069	1 518 373 338	1 603 811 356	1 665 722 615		

## Russia, Asia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	14 616 250	14 616 250	14 300 000	14 492 500	14 643 750	0.19	1.04
Cobalt	(t)	3 240	3 020	2 300	1 365	1 490	-54.01	9.16
Molybdenum	(t)	3 114	3 254	3 359	3 227	2 400	-22.93	-25.63
Nickel	(t)	158 400	135 900	91 760	63 600	60 000	-62.12	-5.66
Tungsten	(t)	2 659	2 642	2 707	2 144	2 234	-15.98	4.20
Aluminium	(t)	3 412 000	3 451 000	3 480 000	3 486 000	3 524 000	3.28	1.09
Antimony	(t)	6 400	7 420	6 620	6 120	6 735	5.23	10.05
Arsenic	(t)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Bismuth	(t)	40	40	30	30	30	-25.00	0.00
Cadmium	(t)	1 000	1 186	1 100	1 200	927	-7.30	-22.75
Copper	(t)	484 050	497 980	491 610	533 610	549 710	13.56	3.02
Germanium	(t)	6	6	6	6	6	0.00	0.00
Indium	(t)	43	40	5	5	4	-90.70	-20.00
Lead	(t)	196 000	180 000	204 300	210 800	220 000	12.24	4.36
Mercury	(t)	50	50	50	50	50	0.00	0.00
Selenium	(t)	170	180	197	194	185	8.82	-4.64
Tellurium	(t)	33	35	40	44	35	6.06	-20.45
Tin	(t)	321	578	627	3 300	1 531	376.95	-53.61
Zinc	(t)	193 900	213 800	245 800	255 200	261 000	34.61	2.27

Abbreviations: see Explanation

Gold	(kg)	231 630	237 340	235 830	251 380	274 450	18.49	9.18
Palladium	(kg)	62 020	54 840	60 030	22 240	40 190	-35.20	80.71
Platinum	(kg)	17 820	16 671	16 920	10 430	9 490	-46.75	-9.01
Rhodium	(kg)	2 488	2 488	2 644	2 426	2 146	-13.75	-11.54
Silver	(kg)	1 433 871	1 580 058	1 449 423	1 306 347	1 349 890	-5.86	3.33
Asbestos	(t)	366 534	323 845	310 000	293 330	313 800	-14.39	6.98
Baryte	(t)	193 500	210 000	434 000	221 000	265 300	37.11	20.05
Bentonite	(t)	318 000	348 600	416 500	468 800	499 800	57.17	6.61
Boron	(t)	81 234	82 000	78 800	82 500	88 000	8.33	6.67
Diam. (Gem)	(ct)	20 744 160	21 786 180	21 085 560	18 966 170	17 624 988	-15.04	-7.07
Diam. (Ind)	(ct)	13 829 440	14 524 120	14 057 040	18 006 413	15 488 177	11.99	-13.99
Feldspar	(t)	124 800	123 000	270 000	288 900	275 700	120.91	-4.57
Fluorspar	(t)	8 200	1 000	3 000	2 700	6 000	-26.83	122.22
Talc	(t)	75 000	75 000	75 000	75 000	75 000	0.00	0.00
Steam Coal	(t)	211 800 000	215 500 000	226 526 100	246 751 300	260 554 200	23.02	5.59
Coking Coal	(t)	76 300 000	82 900 000	83 800 000	86 200 000	91 600 000	20.05	6.26
Lignite	(t)	62 010 000	66 240 000	66 150 000	67 410 000	72 450 000	16.84	7.48
Nat. Gas (Mio m <sup>3</sup> )		598 025	590 007	575 985	646 760	675 735	12.99	4.48
Petroleum	(t)	347 589 000	352 143 860	361 222 050	360 849 850	389 083 730	11.94	7.82
Uranium	(t)	3 526	3 602	3 543	3 440	3 424	-2.89	-0.47
Total	(t)	1 196 370 725	1 209 073 286	1 218 910 777	1 299 117 314	1 375 080 224		

## Russia, Europe

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	43 848 750	43 848 750	42 900 000	43 477 500	43 931 250	0.19	1.04
Chromium	(t)	214 200	226 400	186 000	195 200	202 800	-5.32	3.89
Cobalt	(t)	2 160	2 780	3 300	3 335	3 840	77.78	15.14
Nickel	(t)	105 600	125 100	131 240	157 400	158 000	49.62	0.38
Niobium	(t)	581	628	628	648	669	15.15	3.24
Tantalum	(t)	40	32	49	45	41	2.50	-8.89
Titanium	(t)	88 800	88 850	18 880	3 300	3 600	-95.95	9.09
Vanadium	(t)	15 125	16 196	16 886	18 636	17 052	12.74	-8.50
Aluminium	(t)	76 000	78 000	81 000	97 000	97 000	27.63	0.00
Bauxite	(t)	6 056 000	5 661 000	6 095 000	5 845 000	7 057 000	16.53	20.74
Copper	(t)	207 450	213 420	210 690	228 690	235 590	13.56	3.02
Gallium	(t)	4	4	4	5	6	50.00	20.00
Rare Earths	(t)	2 134	2 312	3 063	2 500	2 596	21.65	3.84
Rhenium	(kg)	1 500	1 500	1 500	1 500	1 000	-33.33	-33.33
Gold	(kg)	17 435	17 860	17 750	18 920	5 400	-69.03	-71.46
Palladium	(kg)	18 510	20 870	26 470	54 030	52 380	182.98	-3.05
Platinum	(kg)	3 950	4 168	5 380	11 970	11 880	200.76	-0.75
Asbestos	(t)	366 534	323 845	403 675	416 920	438 700	19.69	5.22
Baryte	(t)	21 500			0	0	-100.00	.
Bentonite	(t)	182 000	149 400	173 100	200 900	214 200	17.69	6.62
Diam. (Gem)	(ct)	2 237 940	3 361 254	3 346 200	2 894 330	5 348 145	138.98	84.78
Diam. (Ind)	(ct)	1 491 960	2 240 836	2 230 800	2 747 867	4 699 749	215.01	71.03
Feldspar	(t)	83 200	82 000	8 100	4 400	5 600	-93.27	27.27
Graphite	(t)	15 000	15 900	19 400	25 400	19 200	28.00	-24.41
Gypsum	(t)	4 419 000	4 223 000	4 200 000	3 750 000	5 453 400	23.41	45.42
Kaolin	(t)	787 000	786 000	1 064 800	1 593 000	1 485 900	88.81	-6.72

Abbreviations: see Explanation

Magnesite	(t)	1 969 800	1 709 100	1 188 900	1 397 000	1 571 400	-20.23	12.48
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	4 173 000	4 485 000	4 797 000	5 148 000	5 304 000	27.10	3.03
Potash	(t)	7 260 000	6 840 000	6 480 000	7 300 000	7 155 000	-1.45	-1.99
Salt	(t)	4 338 000	4 377 000	6 687 000	7 073 000	6 710 000	54.68	-5.13
Sulfur	(t)	7 300 000	6 720 000	6 960 000	7 000 000	7 170 000	-1.78	2.43
Talc	(t)	75 000	75 000	75 000	75 000	75 000	0.00	0.00
Vermiculite	(t)	21 000	21 000	20 000	14 400	25 904	23.35	79.89
Zircon	(t)	7 930	8 180	7 704	7 324	7 400	-6.68	1.04
Lignite	(t)	6 890 000	7 360 000	7 350 000	7 490 000	8 050 000	16.84	7.48
Nat. Gas	(Mio m <sup>3</sup> )	31 475	31 053	30 315	34 040	35 565	12.99	4.48
Petroleum	(t)	179 061 000	181 407 440	186 084 090	185 892 350	166 750 170	-6.88	-10.30
<b>Total</b>	<b>(t)</b>	<b>292 811 850</b>	<b>293 733 783</b>	<b>299 462 561</b>	<b>304 694 042</b>	<b>290 642 391</b>		

## Rwanda

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Niobium	(t)	345	248	190	260	255	-26.09	-1.92
Tantalum	(t)	530	380	290	395	390	-26.42	-1.27
Tungsten	(t)	1 288	1 060	1 020	905	1 155	-10.33	27.62
Beryllium	(t)		23	30	30	30	.	0.00
Tin	(t)	4 270	2 770	2 560	3 430	3 405	-20.26	-0.73
Gold	(kg)	203	800	1 980	2 000	2 163	965.52	8.15
<b>Total</b>	<b>(t)</b>	<b>6 433</b>	<b>4 482</b>	<b>4 092</b>	<b>5 022</b>	<b>5 237</b>		

## Saudi Arabia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	243 400	241 900	254 200	266 800	27 700	-88.62	-89.62
Aluminium	(t)	662 000	839 000	871 000	916 000	932 209	40.82	1.77
Bauxite	(t)	2 076 000	3 022 000	4 768 000	4 125 000	4 730 690	127.88	14.68
Copper	(t)	11 570	12 340	27 840	43 150	59 650	415.56	38.24
Zinc	(t)	19 830	19 020	4 230	21 787	26 330	32.78	20.85
Gold	(kg)	4 789	5 089	7 010	10 465	13 397	179.75	28.02
Silver	(kg)	4 888	4 500	4 710	5 133	6 480	32.57	26.24
Baryte	(t)	32 000	0	0	0	0	-100.00	.
Feldspar	(t)	168 000	179 000	188 000	197 000	175 594	4.52	-10.87
Gypsum	(t)	1 780 000	2 780 000	3 000 000	3 150 000	3 352 832	88.36	6.44
Kaolin	(t)	106 000	187 000	196 000	206 000	207 461	95.72	0.71
Magnesite	(t)	71 000	77 000	100 000	104 132	155 000	118.31	48.85
Phosphates	(t)	382 200	1 530 000	1 620 000	1 701 000	1 827 000	378.02	7.41
Salt	(t)	1 990 000	2 080 000	2 400 000	2 520 000	2 646 000	32.96	5.00
Sulfur	(t)	4 400 000	4 900 000	5 969 900	6 564 200	6 600 000	50.00	0.55
Talc	(t)	7 000	40 000	42 000	44 000	46 000	557.14	4.55

**Abbreviations:** see Explanation



Nat. Gas (Mio m <sup>3</sup> )		102 380	104 450	110 860	115 000	118 000	15.26	2.61
Petroleum (t)		543 823 580	568 034 180	586 712 210	559 319 390	578 336 010	6.35	3.40
Total (t)		637 676 590	667 501 450	694 841 392	671 178 474	693 522 495		

## Senegal

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Manganese (t)		2 120	3 000	0	0	0	-100.00	.
Titanium (t)		55 950	240 270	238 120	280 320	287 940	414.64	2.72
Gold (kg)		6 588	5 779	6 741	7 255	12 508	89.86	72.41
Silver (kg)		1 150	540	640	660	940	-18.26	42.42
Phosphates (t)		309 820	589 110	886 500	841 020	775 410	150.28	-7.80
Salt (t)		249 224	268 176	263 218	265 040	245 700	-1.41	-7.30
Zircon (t)		9 040	45 248	52 627	81 749	93 569	935.06	14.46
Nat. Gas (Mio m <sup>3</sup> )		35	23	21	17	11	-68.57	-35.29
Petroleum (t)		30 100	22 900	3 320	12 960	20 300	-32.56	56.64
Total (t)		684 262	1 187 111	1 460 593	1 494 697	1 431 733		

## Serbia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Copper (t)		31 584	31 601	34 625	45 115	44 096	39.61	-2.26
Lead (t)		9 690	13 610	13 610	13 890	13 810	42.52	-0.58
Selenium (t)		17	17	18	27	28	64.71	3.70
Zinc (t)		8 440	11 700	11 700	11 900	11 830	40.17	-0.59
Gold (kg)		1 310	1 186	805	1 199	839	-35.95	-30.03
Palladium (kg)		23	22	23	50	55	139.13	10.00
Platinum (kg)		3	2	3	3	6	100.00	100.00
Silver (kg)		8 586	7 488	11 345	12 340	8 970	4.47	-27.31
Kaolin (t)		90 000	110 000	110 000	110 000	120 000	33.33	9.09
Salt (t)		12 994	13 202	9 149	8 197	7 811	-39.89	-4.71
Lignite (t)		29 204 294	37 029 091	38 440 527	39 805 959	37 652 520	28.93	-5.41
Nat. Gas (Mio m <sup>3</sup> )		557	573	523	489	450	-19.21	-7.98
Petroleum (t)		1 310 000	1 050 000	963 532	924 351	910 712	-30.48	-1.48
Total (t)		31 112 629	38 717 629	40 001 573	41 310 652	39 120 817		

**Abbreviations:** see Explanation

## Sierra Leone

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	10 259 610	1 521 830	3 814 410	3 194 930	0	-100.00	-100.00
Titanium	(t)	129 040	140 420	156 570	190 480	145 400	12.68	-23.67
Bauxite	(t)	1 161 705	1 334 046	1 368 531	1 787 716	1 938 461	66.86	8.43
Gold	(kg)	43	106	188	142	464	979.07	226.76
Diam. (Gem)	(ct)	503 942	420 158	417 952	165 860	402 530	-20.12	142.69
Diam. (Ind)	(ct)	90 426	79 875	131 550	122 380	339 070	274.97	177.06
Zircon	(t)	2 416	1 389	1 329	3 000	11 400	371.85	280.00
Total	(t)	11 552 771	2 997 685	5 340 840	5 176 126	2 095 261		

## Slovakia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	167 667	171 328	173 643	173 492	173 721	3.61	0.13
Copper	(t)	46	58	39	32	21	-54.35	-34.38
Lead	(t)	162	226	133	147	114	-29.63	-22.45
Zinc	(t)	176	190	126	166	151	-14.20	-9.04
Gold	(kg)	582	603	466	447	515	-11.51	15.21
Silver	(kg)	437	532	391	410	345	-21.05	-15.85
Baryte	(t)	20 900	20 000	23 000	15 700	11 100	-46.89	-29.30
Bentonite	(t)	214 000	228 433	173 530	226 425	269 990	26.16	19.24
Feldspar	(t)	6 500	4 100	8 400	15 800	16 800	158.46	6.33
Gypsum	(t)	67 900	65 700	52 300	45 600	55 190	-18.72	21.03
Kaolin	(t)	5 900	5 900	11 923	21 400	34 400	483.05	60.75
Magnesite	(t)	887 500	878 400	683 400	975 100	1 053 900	18.75	8.08
Perlite	(t)	17 000	25 000	19 000	48 010	35 600	109.41	-25.85
Talc	(t)	3 300	1 400	800	14 000	43 000	1 203.03	207.14
Lignite	(t)	2 078 960	1 941 007	1 956 510	1 860 710	1 506 940	-27.51	-19.01
Nat. Gas	(Mio m <sup>3</sup> )	91	91	93	90	90	-1.10	0.00
Petroleum	(t)	11 740	12 010	9 490	8 160	7 522	-35.93	-7.82
Total	(t)	3 554 552	3 426 554	3 186 694	3 476 742	3 280 450		

## Slovenia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	84 361	83 775	84 365	84 424	80 511	-4.56	-4.63
Bentonite	(t)	199	232	182	147	113	-43.22	-23.13
Salt	(t)	0	2 191	2 417	2 335	2 018	.	-13.58

**Abbreviations:** see Explanation

Lignite	(t)	3 108 203	3 168 001	3 348 889	3 355 664	3 216 735	3.49	-4.14
Nat. Gas	(Mio m <sup>3</sup> )	3	3	5	9	18	500.00	100.00
Petroleum	(t)	461	359	379	481	769	66.81	59.88
Total	(t)	3 195 624	3 256 958	3 440 232	3 450 251	3 314 546		

## Solomon Islands

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	40	278 400	234 500	1 523 900	1 646 200	.	8.03
Gold	(kg)	531	0	0	0	0	-100.00	.
Silver	(kg)	271	0	0	0	0	-100.00	.
Total	(t)	41	278 400	234 500	1 523 900	1 646 200		

## Somalia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	1 500	0	0	0	0	-100.00	.
Total	(t)	1 500	0	0	0	0		

## South Africa

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	52 493 570	47 323 600	43 196 310	48 808 920	48 271 430	-8.04	-1.10
Chromium	(t)	5 977 600	6 660 500	6 254 600	7 073 400	7 524 700	25.88	6.38
Cobalt	(t)	1 332	1 362	1 101	1 065	1 007	-24.40	-5.45
Manganese	(t)	5 341 400	4 186 600	4 028 100	5 501 400	5 640 700	5.60	2.53
Nickel	(t)	54 956	56 689	48 994	48 463	43 236	-21.33	-10.79
Titanium	(t)	1 195 000	1 050 000	950 000	1 090 000	1 000 000	-16.32	-8.26
Vanadium	(t)	21 582	17 455	15 877	14 222	14 904	-30.94	4.80
Aluminium	(t)	745 000	695 000	701 000	716 000	714 000	-4.16	-0.28
Antimony	(t)	815	302	350	0	0	-100.00	.
Copper	(t)	78 697	77 360	65 257	65 532	46 900	-40.40	-28.43
Lead	(t)	29 348	34 573	39 344	48 150	35 118	19.66	-27.07
Zinc	(t)	26 141	29 040	26 695	30 778	28 129	7.60	-8.61
Gold	(kg)	151 622	144 504	142 202	137 290	117 144	-22.74	-14.67
Palladium	(kg)	58 410	82 691	76 273	80 713	80 629	38.04	-0.10
Platinum	(kg)	93 991	139 125	133 241	132 500	137 053	45.82	3.44
Rhodium	(kg)	12 916	18 722	19 237	18 665	18 608	44.07	-0.31
Silver	(kg)	49 220	51 861	55 622	62 536	46 467	-5.59	-25.70
Bentonite	(t)	171 119	165 535	148 742	165 141	173 486	1.38	5.05
Diam. (Gem)	(ct)	3 223 527	3 293 220	3 322 220	3 877 040	3 965 710	23.02	2.29
Diam. (Ind)	(ct)	4 835 290	4 939 840	4 983 330	5 815 560	5 948 560	23.02	2.29

**Abbreviations:** see Explanation

Feldspar	(t)	102 541	130 184	127 872	116 705	76 803	-25.10	-34.19
Fluorspar	(t)	164 054	121 316	177 000	218 399	230 000	40.20	5.31
Gypsum	(t)	376 223	231 688	262 457	320 685	324 997	-13.62	1.34
Kaolin	(t)	27 258	20 126	21 141	31 186	23 724	-12.97	-23.93
Magnesite	(t)	10 000	10 200	8 800	8 700	8 500	-15.00	-2.30
Perlite	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Phosphates	(t)	703 900	648 300	593 800	727 800	720 400	2.34	-1.02
Salt	(t)	493 798	517 159	473 339	492 860	478 285	-3.14	-2.96
Sulfur	(t)	277 018	284 381	280 830	256 700	240 077	-13.34	-6.48
Talc	(t)	27 327	21 849	23 576	58 776	102 142	273.78	73.78
Vermiculite	(t)	143 007	138 290	166 483	166 084	141 346	-1.16	-14.89
Zircon	(t)	398 101	377 767	377 430	361 813	303 610	-23.74	-16.09
Steam Coal	(t)	257 016 000	252 177 000	251 567 000	253 096 500	254 236 000	-1.08	0.45
Coking Coal	(t)	3 524 000	3 248 000	3 742 000	3 704 000	4 430 000	25.71	19.60
Nat. Gas (Mio m <sup>3</sup> )		1 061	1 312	807	737	615	-42.04	-16.55
Petroleum	(t)	88 803	70 978	38 796	31 145	23 770	-73.23	-23.68
Uranium	(t)	668	528	450	304	231	-65.42	-24.01
Total	(t)	330 339 426	319 346 822	313 984 372	323 745 763	325 326 897		

## South Sudan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Petroleum	(t)	7 652 300	7 277 200	5 789 300	5 477 600	6 438 800	-15.86	17.55
Total	(t)	7 652 300	7 277 200	5 789 300	5 477 600	6 438 800		

## Spain

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nickel	(t)	8 652	7 208	0	0	0	-100.00	.
Tungsten	(t)	822	835	699	564	730	-11.19	29.43
Aluminium	(t)	230 000	360 000	360 000	360 000	350 000	52.17	-2.78
Copper	(t)	104 476	129 788	172 522	204 606	186 500	78.51	-8.85
Lead	(t)	1 223	1 598	4 946	7 200	20 150	1 547.59	179.86
Tin	(t)	0	0	7	24	32	.	33.33
Zinc	(t)	26 756	49 216	76 342	70 451	95 475	256.84	35.52
Gold	(kg)	1 942	1 825	1 291	1 825	1 991	2.52	9.10
Silver	(kg)	31 000	27 300	74 740	82 700	89 980	190.26	8.80
Bentonite	(t)	105 627	100 604	155 038	177 565	178 463	68.96	0.51
Diatomite	(t)	59 619	47 706	48 231	70 550	70 000	17.41	-0.78
Feldspar	(t)	533 328	558 273	634 519	819 218	800 000	50.00	-2.35
Fluorspar	(t)	120 582	130 647	130 131	125 870	110 000	-8.78	-12.61
Gypsum	(t)	6 925 120	7 403 767	8 936 364	9 545 228	9 500 000	37.18	-0.47
Kaolin	(t)	344 414	391 960	347 258	475 074	410 000	19.04	-13.70
Magnesite	(t)	679 348	464 691	583 698	788 991	750 000	10.40	-4.94
Potash	(t)	706 664	667 959	672 246	557 468	610 000	-13.68	9.42
Salt	(t)	4 269 637	4 589 545	4 453 041	4 135 626	4 300 000	0.71	3.97
Sulfur	(t)	650 000	520 000	646 600	633 000	662 000	1.85	4.58
Talc	(t)			0	11 500	12 000	.	4.35

**Abbreviations:** see Explanation

Steam Coal	(t)	2 607 182	1 557 251	1 101 907	1 161 748	645 612	-75.24	-44.43
Lignite	(t)	1 230 444	1 723 731	730 470	1 833 357	1 727 513	40.40	-5.77
Nat. Gas	(Mio m <sup>3</sup> )	26	59	52	34	90	246.15	164.71
Petroleum	(t)	305 253	229 568	139 176	118 809	86 991	-71.50	-26.78
Total	(t)	18 929 980	18 981 576	19 234 871	21 124 134	20 587 558		

## Sri Lanka

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Titanium	(t)	20 140	23 410	16 510	30 630	35 670	77.11	16.45
Feldspar	(t)	95 000	95 000	96 000	96 000	70 000	-26.32	-27.08
Graphite	(t)	3 819	4 212	3 860	3 800	3 800	-0.50	0.00
Kaolin	(t)	12 000	12 000	13 000	13 000	20 000	66.67	53.85
Phosphates	(t)	21 910	18 380	13 600	14 850	16 760	-23.51	12.86
Salt	(t)	102 018	29 243	106 034	74 108	68 834	-32.53	-7.12
Zircon	(t)	1 335	614	7 749	8 569	785	-41.20	-90.84
Total	(t)	256 222	182 859	256 753	240 957	215 849		

## Sudan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	16 300	0	0	0	0	-100.00	.
Chromium	(t)	29 440	7 270	1 850	15 360	12 960	-55.98	-15.63
Manganese	(t)	8 000	12 560	3 920	4 000	4 000	-50.00	0.00
Gold	(kg)	73 300	82 400	93 000	107 300	93 600	27.69	-12.77
Silver	(kg)	1 000	1 000	1 000	2 000	1 000	0.00	-50.00
Feldspar	(t)	50 680	28 238	49 000	29 000	36 000	-28.97	24.14
Gypsum	(t)	111 271	241 360	349 236	333 000	226 000	103.11	-32.13
Kaolin	(t)	50 000	14 490	6 500	5 446	11 000	-78.00	101.98
Salt	(t)	37 295	20 136	223 397	235 000	267 000	615.91	13.62
Talc	(t)	0	3 000	4 250	4 000	4 000	.	0.00
Petroleum	(t)	3 951 500	3 914 700	4 733 100	4 119 300	3 832 800	-3.00	-6.96
Total	(t)	4 254 560	4 241 837	5 371 347	4 745 215	4 393 855		

**Abbreviations:** see Explanation

## Suriname

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite	(t)	2 707 700	1 865 100	0	0	0	-100.00	.
Gold	(kg)	10 641	9 397	12 926	25 844	26 006	144.39	0.63
Petroleum	(t)	836 100	842 950	815 700	811 600	818 400	-2.12	0.84
Total	(t)	3 543 811	2 708 059	815 713	811 626	818 426		

## Sweden

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	19 447 800	17 096 800	18 206 400	18 741 000	18 405 000	-5.36	-1.79
Aluminium	(t)	113 000	116 000	124 000	123 000	125 000	10.62	1.63
Copper	(t)	79 681	75 113	79 247	104 594	106 140	33.21	1.48
Lead	(t)	70 848	79 354	75 830	71 112	64 751	-8.61	-8.95
Selenium	(t)	20	30	60	90	40	100.00	-55.56
Tellurium	(t)	31	33	39	35	45	45.16	28.57
Zinc	(t)	221 841	246 983	258 264	251 244	237 715	7.16	-5.38
Gold	(kg)	6 849	6 028	6 463	7 858	7 866	14.85	0.10
Silver	(kg)	382 611	479 686	498 686	467 500	443 624	15.95	-5.11
Feldspar	(t)	27 000	29 000	22 000	22 000	28 000	3.70	27.27
Graphite	(t)		295	0	0	0	.	.
Total	(t)	19 960 611	17 644 094	18 766 345	19 313 551	18 967 143		

## Switzerland

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	340 000	320 000	340 000	340 000	340 000	0.00	0.00
Salt	(t)	434 500	476 941	447 216	448 509	530 414	22.07	18.26
Total	(t)	774 500	796 941	787 216	788 509	870 414		

## Syria

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	200 000	230 000	101 000	66 000	66 000	-67.00	0.00
Phosphates	(t)	370 000	179 100	0	38 700	38 700	-89.54	0.00
Salt	(t)	30 000	0	5 000	5 000	5 000	-83.33	0.00

Nat. Gas (Mio m <sup>3</sup> )		4 740	4 050	3 530	3 490	3 490	-26.37	0.00
Petroleum (t)		1 460 000	1 197 800	1 101 250	1 078 300	1 050 900	-28.02	-2.54
Total (t)		5 852 000	4 846 900	4 031 250	3 980 000	3 952 600		

## Taiwan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold (kg)		5	2	0	4	4	-20.00	0.00
Kaolin (t)		1 808	732	4 035	1 665	20	-98.89	-98.80
Salt (t)		81 893	78 300	77 300	77 054	78 539	-4.10	1.93
Sulfur (t)		195 280	211 219	163 768	173 963	169 698	-13.10	-2.45
Talc (t)		133	162	250	0	17	-87.22	.
Nat. Gas (Mio m <sup>3</sup> )		379	374	321	266	198	-47.76	-25.56
Petroleum (t)		7 800	7 900	7 200	4 600	4 000	-48.72	-13.04
Total (t)		590 114	597 513	509 353	470 082	410 674		

## Tajikistan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium (t)		121 261	139 123	129 291	103 147	95 800	-21.00	-7.12
Antimony (t)		11 200	13 460	26 970	26 370	28 750	156.70	9.03
Copper (t)		940	1 390	2 050	6 060	8 490	803.19	40.10
Lead (t)		32 400	40 130	57 360	61 090	58 560	80.74	-4.14
Mercury (t)		85	96	120	100	120	41.18	20.00
Zinc (t)		42 740	50 400	73 850	92 940	96 410	125.57	3.73
Gold (kg)		3 436	4 200	5 040	5 500	6 432	87.19	16.95
Silver (kg)		1 870	2 658	3 200	6 550	9 500	408.02	45.04
Gypsum (t)		12 455	8 339	8 750	43 066	9 639	-22.61	-77.62
Salt (t)		34 553	35 554	35 238	41 323	36 964	6.98	-10.55
Steam Coal (t)		878 131	1 042 491	1 361 575	1 760 090	1 907 055	117.17	8.35
Nat. Gas (Mio m <sup>3</sup> )		3	4	3	2	1	-66.67	-50.00
Petroleum (t)		24 508	24 630	25 134	23 482	23 939	-2.32	1.95
Total (t)		1 160 678	1 358 820	1 722 746	2 159 281	2 266 543		

## Tanzania

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bauxite (t)		25 641	204	73	12	7	-99.97	-41.67
Copper (t)		16 400	16 800	17 400	15 800	10 000	-39.02	-36.71
Tin (t)		59	134	104	68	6	-89.83	-91.18

**Abbreviations:** see Explanation

Gold	(kg)	40 481	43 861	45 778	43 490	39 304	-2.91	-9.63
Silver	(kg)	14 493	15 569	17 984	10 911	12 041	-16.92	10.36
Diam. (Gem)	(ct)	214 945	184 025	203 915	258 785	324 105	50.79	25.24
Diam. (Ind)	(ct)	37 930	32 475	35 985	45 670	57 195	50.79	25.24
Gypsum	(t)	200 179	239 302	213 744	123 645	241 260	20.52	95.12
Kaolin	(t)	3 809	1 953	656	13 816	129 383	3 296.77	836.47
Phosphates	(t)	162 360	49 020	5 200	300	0	-100.00	-100.00
Salt	(t)	54 757	168 900	178 200	124 500	36 600	-33.16	-70.60
Steam Coal	(t)	246 128	257 321	276 030	558 553	627 652	155.01	12.37
Nat. Gas	(Mio m <sup>3</sup> )	958	1 053	1 368	1 344	1 675	74.84	24.63
Total	(t)	1 475 787	1 576 094	1 785 871	1 911 948	2 384 959		

## Thailand

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	215 710	10 220	0	85	0	-100.00	-100.00
Manganese	(t)	6 880	4 320	4 390	3 850	1 920	-72.09	-50.13
Tungsten	(t)	90	31	29	43	65	-27.78	51.16
Antimony	(t)	706	0	32	0	0	-100.00	.
Tin	(t)	98	45	58	341	47	-52.04	-86.22
Zinc	(t)	45 380	36 210	35 130	1 580	0	-100.00	-100.00
Gold	(kg)	4 514	3 305	4 293	0	0	-100.00	.
Silver	(kg)	31 046	21 047	35 954	0	0	-100.00	.
Baryte	(t)	134 961	170 621	223 101	147 954	67 490	-49.99	-54.38
Feldspar	(t)	1 413 428	1 331 916	1 167 147	1 385 925	1 117 803	-20.92	-19.35
Fluorspar	(t)	4 590	15 095	20 100	5 500	16 700	263.83	203.64
Gypsum	(t)	13 421 918	12 143 168	11 746 811	10 646 644	11 197 657	-16.57	5.18
Kaolin	(t)	123 621	102 763	101 618	103 079	110 437	-10.66	7.14
Perlite	(t)	54 100	17 200	15 690	5 800	5 600	-89.65	-3.45
Phosphates	(t)	500	0	0	2 400	0	-100.00	-100.00
Salt	(t)	1 381 067	1 385 911	1 390 548	1 497 223	1 487 364	7.70	-0.66
Talc	(t)	57 308	52 268	103 926	61 436	58 676	2.39	-4.49
Lignite	(t)	17 981 722	15 150 549	16 978 601	16 258 637	14 851 950	-17.41	-8.65
Nat. Gas	(Mio m <sup>3</sup> )	42 096	39 793	39 037	37 417	36 454	-13.40	-2.57
Petroleum	(t)	11 592 740	12 347 720	12 858 470	11 939 690	11 361 670	-1.99	-4.84
Total	(t)	80 111 655	74 602 461	75 875 291	71 993 787	69 440 579		



## Togo

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gold	(kg)	20 583	15 568	14 470	19 960	10 000	-51.42	-49.90
Diam. (Ind)	(ct)	23	0	0	0	0	-100.00	.
Phosphates	(t)	394 600	418 100	306 600	266 260	370 810	-6.03	39.27
Total	(t)	394 621	418 116	306 614	266 280	370 820		

## Trinidad and Tobago

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Nat. Gas	(Mio m <sup>3</sup> )	42 077	39 617	32 098	34 581	37 501	-10.88	8.44
Petroleum	(t)	4 046 848	3 917 069	3 570 900	3 576 540	3 165 790	-21.77	-11.48
Total	(t)	37 708 448	35 610 669	29 249 300	31 241 340	33 166 590		

## Tunisia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	179 200	153 700	159 500	152 100	145 800	-18.64	-4.14
Zinc	(t)	7 400	0	0	0	0	-100.00	.
Baryte	(t)	9 800	10 000	10 000	10 000	10 000	2.04	0.00
Gypsum	(t)	771 652	690 000	650 000	800 000	1 000 000	29.59	25.00
Phosphates	(t)	1 097 400	936 200	1 062 400	1 145 300	812 800	-25.93	-29.03
Salt	(t)	1 124 019	1 280 000	1 130 000	1 200 000	1 400 000	24.55	16.67
Nat. Gas	(Mio m <sup>3</sup> )	2 611	2 529	2 236	2 094	1 950	-25.32	-6.88
Petroleum	(t)	2 850 325	2 584 915	2 438 315	2 065 930	2 027 230	-28.88	-1.87
Total	(t)	8 128 596	7 678 015	7 239 015	7 048 530	6 955 830		

## Turkey

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	7 251 200	4 734 200	4 353 700	6 095 400	9 546 700	31.66	56.62
Chromium	(t)	1 806 600	1 464 330	1 070 030	1 384 700	1 146 600	-36.53	-17.20
Manganese	(t)	52 500	30 500	16 400	27 300	29 900	-43.05	9.52
Molybdenum	(t)	0	1 335	0	900	450	.	-50.00
Nickel	(t)	3 030	8 640	9 340	14 770	13 560	347.52	-8.19
Titanium	(t)	4 750	4 750	4 750	6 370	6 175	30.00	-3.06
Aluminium	(t)	30 400	45 900	50 000	82 000	83 000	173.03	1.22
Antimony	(t)	3 070	1 950	2 750	4 840	3 570	16.29	-26.24
Bauxite	(t)	1 091 442	1 050 000	989 156	1 719 144	678 138	-37.87	-60.55

**Abbreviations:** see Explanation

Copper	(t)	96 300	108 000	107 300	85 200	87 000	-9.66	2.11
Lead	(t)	94 900	75 900	64 300	74 990	75 990	-19.93	1.33
Zinc	(t)	211 500	173 600	118 700	155 900	184 500	-12.77	18.35
Gold	(kg)	31 260	27 800	24 030	23 090	27 100	-13.31	17.37
Silver	(kg)	183 880	190 550	174 180	151 490	202 400	10.07	33.61
Baryte	(t)	203 984	655 943	321 239	292 447	465 138	128.03	59.05
Bentonite	(t)	1 098 817	3 134 911	1 744 912	1 481 617	1 331 955	21.22	-10.10
Boron	(t)	1 870 000	1 840 000	1 831 000	2 025 000	2 432 000	30.05	20.10
Diatomite	(t)	61 884	86 656	61 722	169 584	242 789	292.33	43.17
Feldspar	(t)	7 960 844	10 422 766	9 475 819	10 273 573	11 474 040	44.13	11.68
Fluorspar	(t)	4 271	6 238	10 339	20 150	6 200	45.17	-69.23
Graphite	(t)	3 850	0	0	4 000	16 752	335.12	318.80
Gypsum	(t)	9 051 158	8 638 715	10 124 221	10 223 112	10 896 476	20.39	6.59
Kaolin	(t)	2 032 103	1 887 302	1 283 260	1 362 799	1 515 609	-25.42	11.21
Magnesite	(t)	2 377 157	3 335 258	3 258 445	1 694 071	1 958 847	-17.60	15.63
Perlite	(t)	897 125	843 242	1 066 251	606 231	1 088 983	21.39	79.63
Phosphates	(t)	181 200	214 000	231 800	0	0	-100.00	.
Salt	(t)	5 331 412	6 257 320	5 328 256	6 673 242	6 298 705	18.14	-5.61
Sulfur	(t)	98 800	78 600	78 000	92 500	250 000	153.04	170.27
Talc	(t)	114 414	182 362	203 214	474 482	284 216	148.41	-40.10
Vermiculite	(t)	716	425	1 050	1 618	18 183	2 439.53	1 023.79
Zircon	(t)	1 100	1 500	500	1 200	1 950	77.27	62.50
Steam Coal	(t)	1 803 000	1 525 000	2 070 000	1 875 000	1 856 000	2.94	-1.01
Coking Coal	(t)	861 000	767 000	695 000	764 000	731 000	-15.10	-4.32
Lignite	(t)	61 500 000	56 349 700	71 691 000	72 864 000	86 668 000	40.92	18.94
Nat. Gas (Mio m <sup>3</sup> )		502	399	382	364	436	-13.15	19.78
Petroleum	(t)	2 455 893	2 515 662	2 571 928	2 551 929	2 850 828	16.08	11.71
Total	(t)	108 956 235	106 761 124	119 140 180	123 393 443	142 592 283		

## Turkmenistan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Bentonite	(t)	7 387	10 000	10 000	10 000	10 000	35.37	0.00
Potash	(t)				0	15 200	.	.
Salt	(t)	91 651	100 000	100 000	100 000	100 000	9.11	0.00
Sulfur	(t)	505 905	600 000	400 000	200 000	450 000	-11.05	125.00
Nat. Gas (Mio m <sup>3</sup> )		72 739	71 900	69 400	70 600	70 000	-3.77	-0.85
Petroleum	(t)	11 588 800	12 723 740	11 397 000	10 950 000	10 603 000	-8.51	-3.17
Total	(t)	70 384 943	70 953 740	67 427 000	67 740 000	67 178 200		

## Uganda

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	25 175	5 400	1 280	1 390	2 700	-89.28	94.24
Niobium	(t)			4	3	2	.	-33.33
Tungsten	(t)	63	36	41	62	188	198.41	203.23

**Abbreviations:** see Explanation

Tin	(t)	33	135	62	66	53	60.61	-19.70
Gold	(kg)	24	13	11	4	12	-50.00	200.00
Kaolin	(t)	46 286	40 774	45 909	55 317	17 281	-62.66	-68.76
Vermiculite	(t)	2 661	1 213	3 295	4 119	10 413	291.32	152.80
Total	(t)	74 218	47 558	50 591	60 957	30 637		

## Ukraine

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	43 712 000	42 817 200	40 240 600	38 767 600	38 751 300	-11.35	-0.04
Manganese	(t)	565 800	546 600	491 500	650 500	682 700	20.66	4.95
Titanium	(t)	391 150	375 480	339 800	430 300	518 950	32.67	20.60
Gallium	(t)	10	9	9	9	6	-40.00	-33.33
Germanium	(t)	1	1	1	1	1	0.00	0.00
Bentonite	(t)	220 000	220 000	200 000	113 200	178 200	-19.00	57.42
Feldspar	(t)	94 506	44 460	33 627	35 000	50 000	-47.09	42.86
Graphite	(t)	8 000	10 000	12 000	13 000	15 000	87.50	15.38
Gypsum	(t)	1 525 300	1 254 900	1 303 000	1 528 900	1 386 400	-9.11	-9.32
Kaolin	(t)	1 426 447	1 814 786	2 335 004	2 379 636	2 091 525	46.62	-12.11
Salt	(t)	2 497 706	2 136 500	1 783 530	1 815 684	2 191 619	-12.25	20.70
Sulfur	(t)	182 000	171 700	171 300	175 900	222 200	22.09	26.32
Zircon	(t)	35 000	30 000	29 280	27 239	21 614	-38.25	-20.65
Steam Coal	(t)	33 634 000	23 852 700	25 121 500	18 932 900	21 648 100	-35.64	14.34
Coking Coal	(t)	12 297 000	6 063 900	6 508 800	5 233 900	4 606 300	-62.54	-11.99
Nat. Gas (Mio m <sup>3</sup> )		20 100	19 900	20 052	20 510	20 806	3.51	1.44
Petroleum	(t)	2 762 000	2 533 300	2 272 100	2 169 900	2 293 300	-16.97	5.69
Uranium	(t)	1 092	1 156	1 185	986	1 390	27.29	40.97
Total	(t)	115 432 012	97 792 692	96 884 836	88 682 655	91 303 405		

## United Arab Emirates

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Aluminium	(t)	2 296 000	2 397 000	2 471 000	2 600 000	2 640 000	14.98	1.54
Sulfur	(t)	2 300 000	4 540 000	4 800 000	4 600 000	5 300 000	130.43	15.22
Nat. Gas (Mio m <sup>3</sup> )		54 240	58 680	60 315	61 980	64 680	19.25	4.36
Petroleum	(t)	166 197 200	176 062 450	182 379 600	176 247 300	177 695 950	6.92	0.82
Total	(t)	214 185 200	229 943 450	237 902 600	233 031 300	237 379 950		

**Abbreviations:** see Explanation

## United Kingdom

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Tungsten	(t)		155	732	1 086	890	.	-18.05
Aluminium	(t)	41 000	48 000	46 000	48 000	48 000	17.07	0.00
Lead	(t)	0	0	100	100	100	.	0.00
Tin	(t)		16	144	255	220	.	-13.73
Gold	(kg)	0	0	6	0	0	.	.
Silver	(kg)	0	0	14	0	0	.	.
Baryte	(t)	44 000	50 000	56 000	55 000	55 000	25.00	0.00
Fluorspar	(t)	25 000	17 000	12 000	11 000	11 000	-56.00	0.00
Gypsum	(t)	1 200 000	1 800 000	1 600 000	1 300 000	1 300 000	8.33	0.00
Kaolin	(t)	1 090 000	1 014 000	940 000	970 000	970 000	-11.01	0.00
Potash	(t)	600 000	653 400	482 800	297 400	291 100	-51.48	-2.12
Salt	(t)	4 690 000	4 700 000	4 100 000	4 100 000	4 100 000	-12.58	0.00
Sulfur	(t)	134 000	135 000	133 000	133 000	133 000	-0.75	0.00
Talc	(t)	4 907	5 430	2 997	3 671	3 700	-24.60	0.79
Steam Coal	(t)	11 549 000	8 526 000	4 124 800	3 002 400	2 547 930	-77.94	-15.14
Coking Coal	(t)	99 000	72 000	53 000	38 660	32 950	-66.72	-14.77
Nat. Gas (Mio m <sup>3</sup> )		37 680	40 466	41 607	42 094	41 022	8.87	-2.55
Petroleum	(t)	40 327 750	45 698 100	47 872 100	47 049 300	51 245 500	27.07	8.92
Total	(t)	89 948 657	95 091 901	92 709 273	90 685 072	93 556 990		

## United States

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	35 343 000	29 043 000	26 334 000	30 177 000	31 185 000	-11.76	3.34
Cobalt	(t)	120	760	690	640	490	308.33	-23.44
Molybdenum	(t)	68 200	47 400	36 200	40 700	41 400	-39.30	1.72
Nickel	(t)	4 300	27 200	24 100	22 100	17 600	309.30	-20.36
Titanium	(t)	142 000	110 000	55 000	66 000	100 000	-29.58	51.52
Aluminium	(t)	1 709 668	1 586 518	818 430	740 884	896 652	-47.55	21.02
Bauxite	(t)	133 300	483 700	272 900	352 100	399 700	199.85	13.52
Beryllium	(t)	6 900	5 100	3 870	3 760	4 170	-39.57	10.90
Cadmium	(t)	550	500	400	400	300	-45.45	-25.00
Copper	(t)	1 360 000	1 380 000	1 430 000	1 260 000	1 220 000	-10.29	-3.17
Germanium	(t)	3	3	3	2	2	-33.33	0.00
Lead	(t)	378 000	370 000	346 000	310 000	280 000	-25.93	-9.68
Lithium	(t)	2 150	1 820	1 800	1 420	1 500	-30.23	5.63
Mercury	(t)	15	15	15	15	15	0.00	0.00
Rare Earths	(t)	4 769	3 678	0	0	18 000	277.44	.
Rhenium	(kg)	8 510	7 900	8 440	8 200	8 220	-3.41	0.24
Selenium	(t)	160	90	122	116	120	-25.00	3.45
Tellurium	(t)	50	50	50	0	0	-100.00	.
Zinc	(t)	830 800	824 700	804 800	773 800	824 000	-0.82	6.49

Abbreviations: see Explanation

Gold	(kg)	210 077	213 808	228 267	236 778	226 000	7.58	-4.55
Palladium	(kg)	12 448	12 532	13 070	13 600	14 377	15.50	5.71
Platinum	(kg)	3 655	3 667	3 891	3 980	4 055	10.94	1.88
Rhodium	(kg)	124	96	103	100	100	-19.35	0.00
Silver	(kg)	1 183 900	1 090 000	1 153 000	1 030 000	934 000	-21.11	-9.32
Baryte	(t)	667 000	433 000	232 000	334 000	366 000	-45.13	9.58
Bentonite	(t)	4 580 000	4 080 000	4 000 000	4 430 000	4 670 000	1.97	5.42
Boron	(t)	1 118 000	1 218 000	1 134 000	1 075 000	1 075 000	-3.85	0.00
Diatomite	(t)	901 000	832 000	686 000	768 000	957 000	6.22	24.61
Feldspar	(t)	530 000	520 000	470 000	440 000	550 000	3.77	25.00
Gypsum	(t)	18 300 000	18 800 000	19 800 000	20 700 000	21 100 000	15.30	1.93
Kaolin	(t)	5 960 000	5 810 000	5 290 000	5 560 000	5 530 000	-7.21	-0.54
Perlite	(t)	462 000	501 000	521 000	570 000	510 000	10.39	-10.53
Phosphates	(t)	7 110 000	7 710 000	7 615 000	7 840 000	7 250 000	1.97	-7.53
Potash	(t)	850 000	740 000	510 000	480 000	520 000	-38.82	8.33
Salt	(t)	45 300 000	45 100 000	41 700 000	39 600 000	41 000 000	-9.49	3.54
Sulfur	(t)	9 640 000	9 540 000	9 740 000	9 640 000	9 680 000	0.41	0.41
Talc	(t)	609 987	615 000	578 000	610 000	650 000	6.56	6.56
Vermiculite	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Zircon	(t)	65 000	60 000	50 000	45 000	100 000	53.85	122.22
Steam Coal	(t)	760 930 000	689 985 000	543 539 000	573 009 000	561 096 000	-26.26	-2.08
Coking Coal	(t)	72 717 000	57 521 000	50 136 000	65 467 000	71 947 000	-1.06	9.90
Lignite	(t)	72 110 700	64 281 500	64 692 400	61 394 500	51 744 500	-28.24	-15.72
Nat. Gas (Mio m <sup>3</sup> )		733 120	766 410	753 010	773 230	866 180	18.15	12.02
Petroleum	(t)	522 998 330	566 611 840	541 938 840	573 912 280	669 373 700	27.99	16.63
Uranium	(t)	2 219	1 516	1 323	1 108	657	-70.39	-40.70
Total	(t)	2 151 432 640	2 121 473 719	1 925 271 349	2 018 310 118	2 176 153 992		

## Uruguay

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	15 050	11 520	1 040	1 010	2 520	-83.26	149.50
Gold	(kg)	1 719	1 413	999	1 055	393	-77.14	-62.75
Bentonite	(t)	7 800	4 252	6 650	6 640	7 760	-0.51	16.87
Feldspar	(t)	300	200	460	370	380	26.67	2.70
Talc	(t)	360	585	290	100	420	16.67	320.00
Total	(t)	23 512	16 558	8 441	8 121	11 080		

## Uzbekistan

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Molybdenum	(t)	450	570	620	700	750	66.67	7.14
Tungsten	(t)	83	110	80	103	97	16.87	-5.83
Bismuth	(t)	2	2	0	0	0	-100.00	.
Cadmium	(t)	60	707	290	306	237	295.00	-22.55
Copper	(t)	99 500	100 000	100 000	100 000	38 000	-61.81	-62.00
Lead	(t)	3 000	3 000	2 000	2 000	5 000	66.67	150.00

Abbreviations: see Explanation

Rhenium	(kg)	900	1 000	660	530	500	-44.44	-5.66
Selenium	(t)	20	20	10	50	48	140.00	-4.00
Zinc	(t)	50 000	50 000	50 000	55 000	56 000	12.00	1.82
Gold	(kg)	102 000	103 000	100 000	89 900	88 500	-13.24	-1.56
Silver	(kg)	100 000	200 000	231 000	232 300	161 700	61.70	-30.39
Kaolin	(t)	64 605	196 350	323 680	269 906	291 814	351.69	8.12
Phosphates	(t)	136 510	166 800	170 000	170 000	170 000	24.53	0.00
Potash	(t)	96 360	103 000	83 000	85 000	92 300	-4.21	8.59
Steam Coal	(t)	407 249	412 000	160 000	160 000	160 000	-60.71	0.00
Lignite	(t)	3 989 586	3 988 000	3 717 400	3 878 670	4 014 400	0.62	3.50
Nat. Gas (Mio m <sup>3</sup> )		61 740	62 196	56 136	56 417	59 842	-3.07	6.07
Petroleum	(t)	2 961 000	2 728 100	2 615 400	2 766 600	2 890 000	-2.40	4.46
Uranium	(t)	4 010	4 100	4 090	4 000	6 100	52.12	52.50
Total	(t)	57 204 638	57 509 863	52 135 702	52 626 258	55 598 598		

## Venezuela

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	7 318 100	7 615 100	5 070 000	4 615 000	1 950 000	-73.35	-57.75
Nickel	(t)	3 599	3 707	0	0	0	-100.00	.
Aluminium	(t)	138 400	119 511	145 000	136 000	64 700	-53.25	-52.43
Bauxite	(t)	2 346 160	991 810	340 000	242 000	92 000	-96.08	-61.98
Gold	(kg)	1 056	558	800	8 100	9 100	761.74	12.35
Diam. (Gem)	(ct)				0	800	.	.
Diam. (Ind)	(ct)				0	1 200	.	.
Feldspar	(t)	93 934	75 527	58 000	30 340	30 000	-68.06	-1.12
Phosphates	(t)	10 030	7 370	42 900	19 320	16 800	67.50	-13.04
Salt	(t)	610 000	642 000	640 000	600 000	600 000	-1.64	0.00
Sulfur	(t)	800 000	700 000	700 000	700 000	700 000	-12.50	0.00
Steam Coal	(t)	800 640	801 697	749 000	770 000	750 000	-6.32	-2.60
Nat. Gas (Mio m <sup>3</sup> )		31 790	36 070	37 240	38 605	33 230	4.53	-13.92
Oil Sands*	(t)	30 100 000	29 980 000	29 000 000	25 000 000	20 000 000	-33.55	-20.00
Petroleum	(t)	138 510 300	135 364 100	121 033 000	107 584 000	77 339 900	-44.16	-28.11
Total	(t)	176 063 164	175 176 823	158 569 901	145 580 668	108 127 409		

\*Oil Sands as part of Petroleum

## Vietnam

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Iron	(t)	1 631 400	1 614 600	1 833 600	3 309 000	3 282 600	101.21	-0.80
Chromium	(t)	1 600	0	0	0	0	-100.00	.
Cobalt	(t)	223	277	134	0	0	-100.00	.
Manganese	(t)	50 000	50 000	29 000	28 650	20 000	-60.00	-30.19
Nickel	(t)	6 854	8 607	4 272	0	0	-100.00	.
Titanium	(t)	290 160	123 600	109 620	117 160	109 100	-62.40	-6.88
Tungsten	(t)	3 510	4 063	5 041	5 141	4 881	39.06	-5.06
Aluminium	(t)			0	501 000	655 568	.	30.85
Antimony	(t)	1 098	220	230	230	235	-78.60	2.17
Bauxite	(t)	1 090 000	1 436 500	1 606 100	2 565 000	2 930 000	168.81	14.23
Bismuth	(t)	2 324	3 000	2 013	2 403	2 639	13.55	9.82
Copper	(t)	21 762	24 420	22 300	21 100	22 440	3.12	6.35
Lead	(t)	2 800	1 900	800	4 500	14 500	417.86	222.22
Tin	(t)	4 072	4 399	4 468	4 950	5 470	34.33	10.51
Zinc	(t)	17 000	15 000	12 000	12 000	12 000	-29.41	0.00
Gold	(kg)	687	539	584	557	600	-12.66	7.72
Baryte	(t)	112 000	140 000	80 000	70 000	50 000	-55.36	-28.57
Fluorspar	(t)	95 494	214 000	218 878	234 905	238 700	149.96	1.62
Kaolin	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Phosphates	(t)	741 270	877 020	942 750	1 376 400	1 627 110	119.50	18.21
Salt	(t)	905 600	1 061 000	982 000	648 500	953 200	5.26	46.99
Zircon	(t)	15 730	8 000	9 300	5 500	10 500	-33.25	90.91
Steam Coal	(t)	41 086 000	41 664 000	38 735 000	38 409 000	42 047 000	2.34	9.47
Nat. Gas (Mio m <sup>3</sup> )		10 210	10 660	10 610	9 866	10 010	-1.96	1.46
Petroleum	(t)	17 392 000	18 746 000	17 230 000	15 518 000	13 969 000	-19.68	-9.98
Total	(t)	71 738 898	74 624 607	70 415 507	70 826 240	74 062 944		

## Yemen

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Gypsum	(t)	100 000	100 000	100 000	50 000	50 000	-50.00	0.00
Salt	(t)	85 000	70 000	50 000	50 000	50 000	-41.18	0.00
Nat. Gas (Mio m <sup>3</sup> )		8 314	2 850	500	600	600	-92.78	0.00
Petroleum	(t)	8 578 100	2 367 000	962 000	1 021 000	1 238 000	-85.57	21.25
Total	(t)	15 414 300	4 817 000	1 512 000	1 601 000	1 818 000		

Abbreviations: see Explanation

## Zambia

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Cobalt	(t)	4 562	2 979	5 276	2 649	1 585	-65.26	-40.17
Manganese	(t)	22 000	5 000	27 500	50 000	138 000	527.27	176.00
Beryllium	(t)	4	7	5	4	7	75.00	75.00
Copper	(t)	708 259	711 515	774 290	799 329	861 946	21.70	7.83
Gold	(kg)	4 803	4 238	4 610	4 373	4 044	-15.80	-7.52
Sulfur	(t)	300 000	300 000	363 000	679 500	754 000	151.33	10.96
Steam Coal	(t)	159 151	103 439	126 050	208 608	344 717	116.60	65.25
Total	(t)	1 193 981	1 122 944	1 296 126	1 740 094	2 100 259		

## Zimbabwe

		2014	2015	2016	2017	2018	Change 14/18	Change 17/18
Chromium	(t)	183 790	93 750	128 220	309 980	402 600	119.05	29.88
Cobalt	(t)	358	355	409	445	403	12.57	-9.44
Nickel	(t)	16 633	16 109	17 743	16 617	17 850	7.32	7.42
Copper	(t)	8 261	8 218	9 101	8 839	9 077	9.88	2.69
Lithium	(t)	1 630	1 405	2 030	1 750	3 160	93.87	80.57
Gold	(kg)	15 386	20 023	22 747	26 495	35 054	127.83	32.30
Palladium	(kg)	10 138	10 055	12 222	11 822	12 094	19.29	2.30
Platinum	(kg)	12 483	12 564	15 110	14 257	14 703	17.78	3.13
Rhodium	(kg)	1 140	1 128	1 322	1 283	1 334	17.02	3.98
Diam. (Gem)	(ct)	1 431 491	1 008 000	639 920	752 360	975 730	-31.84	29.69
Diam. (Ind)	(ct)	3 340 146	2 352 000	1 493 140	1 755 500	2 276 690	-31.84	29.69
Graphite	(t)	6 853	6 362	5 622	1 577	0	-100.00	-100.00
Vermiculite	(t)	30 740	30 868	29 312	23 302	33 161	7.88	42.31
Steam Coal	(t)	5 335 000	3 878 000	1 175 000	2 445 500	2 835 500	-46.85	15.95
Coking Coal	(t)	448 000	458 000	461 000	483 000	512 000	14.29	6.00
Total	(t)	6 031 304	4 493 112	1 828 488	3 291 063	3 813 814		



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