



# World Mining Data 2021

Iron and Ferro-Alloy Metals

Non-Ferrous Metals

Precious Metals

Industrial Minerals

Mineral Fuels



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Volume 36

C. Reichl, M. Schatz

Minerals Production

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## 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 persistent coronavirus pandemic relentlessly demonstrates our vulnerability in a globalized world with complex dependencies and widely ramified value chains. It reveals questions about supply security for everyday products, as well as for basic materials urgently needed for the downstream industry. Key technologies designed to secure our future viability and contributing towards 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 resources in the long term. Disruptive events 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 36 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.

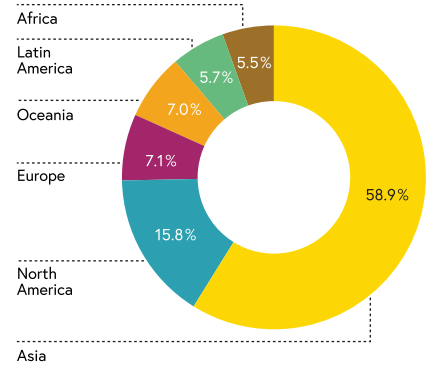
I would like to express my sincere gratitude to Austrian representations abroad as well as to international institutions for their support and active participation regarding this publication.

Elisabeth Köstinger  
Federal Minister of Agriculture, Regions and Tourism

# Minerals – Lifeblood of the economy

Major developments  
in global mining  
production based  
on World Mining  
Data 2021

Total production 2019  
by continents



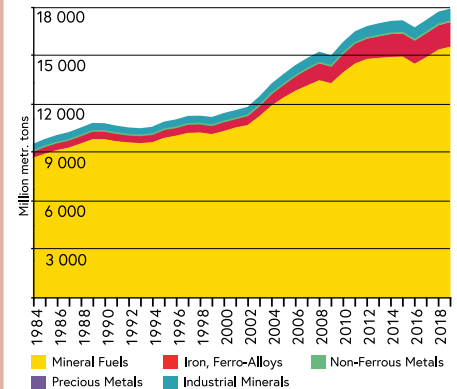
World mining production

**2019**  
17.9 Billion metric tons

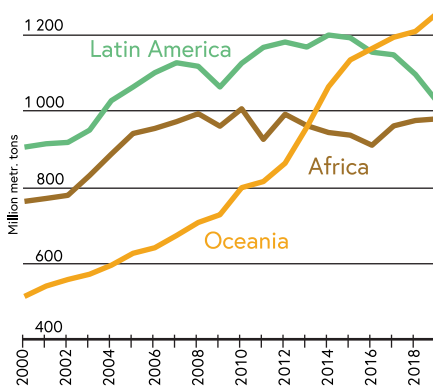
**2000**  
11.3 Billion metric tons

**1985**  
9.6 Billion metric tons

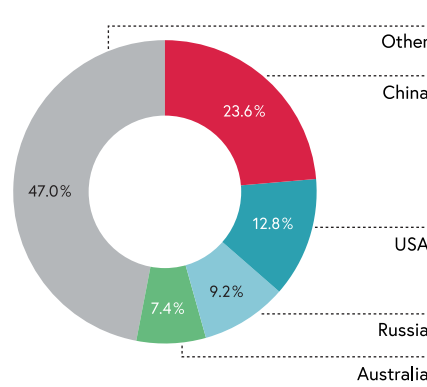
Total mining production 1984 – 2019



Minerals production: Oceania surpassed Africa in 2013 and Latin America in 2016



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



Iron and Ferro-Alloy Metals

Ratio of Iron Ore to all other  
Ferro-Alloy Metals

**96.9% to 3.1%**

Growth rate of Iron Ore production  
2000/2019 (2015/2019)

**154.1% (5.8%)**

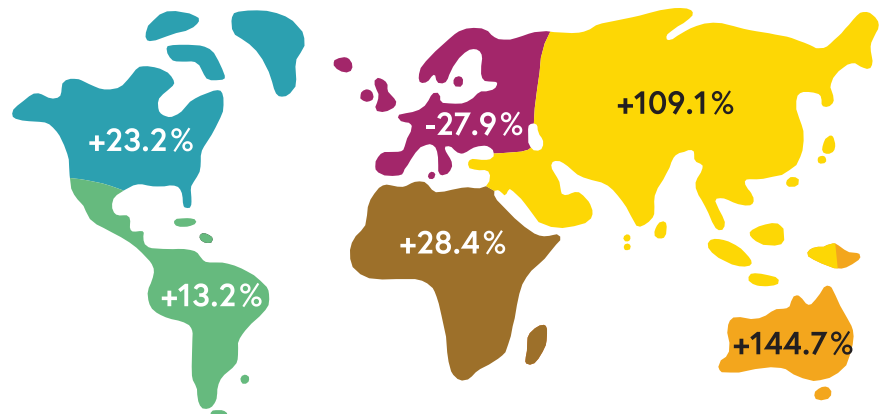
Growth rate of Nickel production  
2000/2019 (2015/2019)

**140.1% (31.4%)**

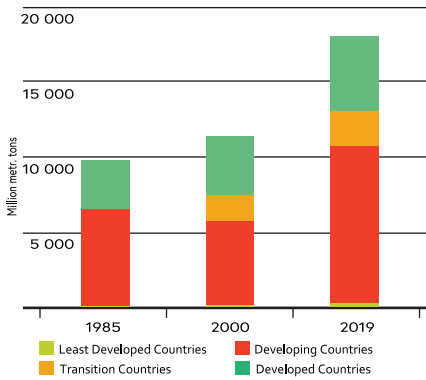
China is world's largest producer  
of 32 different commodities:

- 4 Iron and Ferro-Alloy Metals: Mo, Ti, W, V
- 14 Non-Ferrous Metals: Al, Sb, Bi, Cd, Ga, Ge, In, Pb, Hg, REE, Se, 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

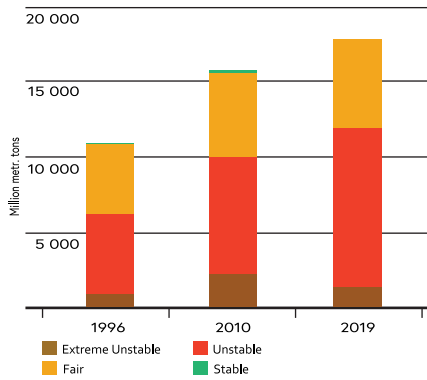
Declining production rates since 2000 only in Europe – Δ 2000 / 2019



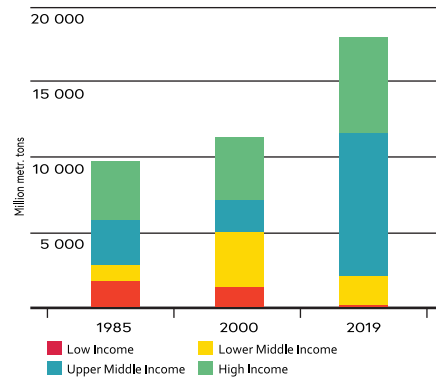
### Development status of producer countries



### 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%**

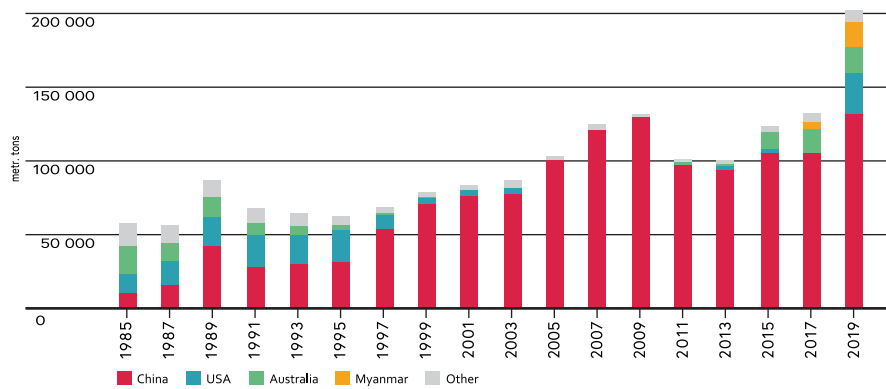
Growth rate of Non-Ferrous Metals production 2000/2019 (2015/2019)

**105.2% (+6.5%)**

Growth rate of Aluminium production 2000/2019 (2015/2019)

**155.5% (+8.6%)**

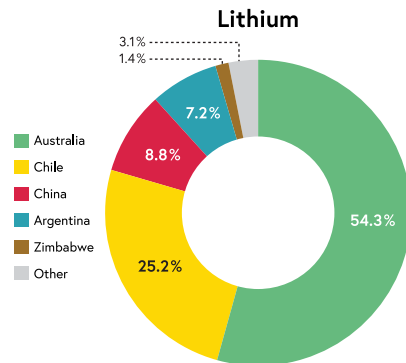
### Strong increase in Rare Earth Minerals production (REO – Content)



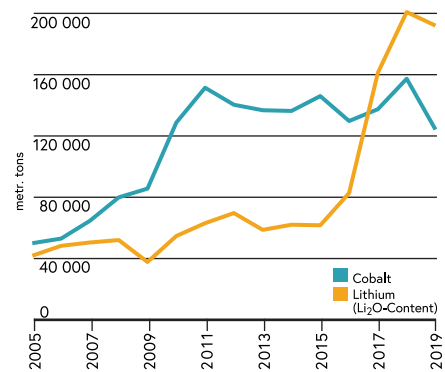
### Big changes

	Δ 2000/2019	Δ 2015/2019
Gallium	619.2%	31.2%
Lithium	595.9%	202.9%
Niobium	299.6%	54.8%
Lignite	-14.3%	-9.9%
Vermiculite	-25.8%	-3.1%
Asbestos	-42.9%	-10.3%

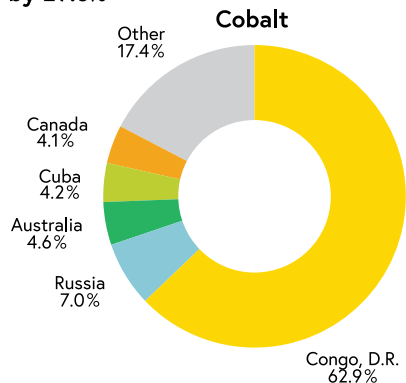
### Key commodities for battery technology



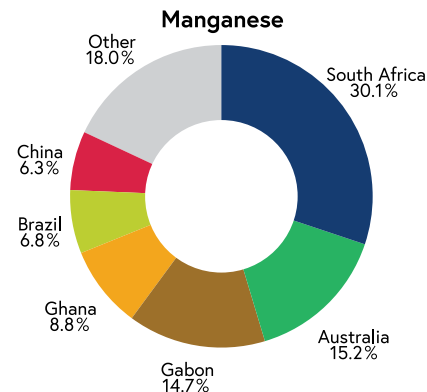
### Lower demand than expected broke upward trend of Li and Co production



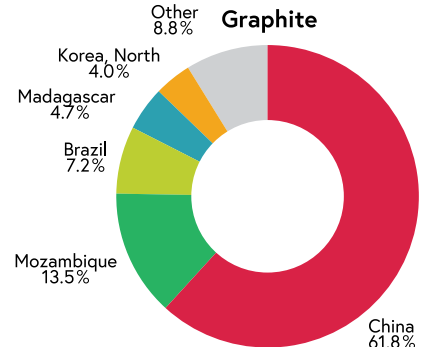
### Congo, D.R. dominates primary Cobalt production, but sharp decline in 2019 by 29.6%



### Largest 6 producer countries share 82.0% of Manganese production



### 2 more significant global players: Mozambique, Madagascar





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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, Petroleum (incl. Condensate), 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 for natural gas (approximate method):

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

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 for 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 for 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>
Petroleum (incl. Condensate)	crude	metr. t
Oil Sands	crude	metr. t
Oil Shales		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, 2020; 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 developed and 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 (1985-2020), 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 (2020)

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/UN)**

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, 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, Mayotte, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, St. Helena, Sao Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, 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), Colombia (2020), 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: <https://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	≤ 1 035				
LM	≤ 4 125	≤ 4 035	≤ 3 955	≤ 3 895	≤ 3 995	≤ 4 045				
UM	≤ 12 735	≤ 12 475	≤ 12 235	≤ 12 055	≤ 12 375	≤ 12 535				
H	> 12 735	> 12 475	> 12 235	> 12 055	> 12 375	> 12 535				

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

Data collection 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 gathered by the BGS (World Mineral Production) and the USGS have proven very useful for cross-checks.

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, 2021**

Data received later than February 28, 2021 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/bergbau/mineralrohstoffpolitik/international.html>

<https://www.world-mining-data.info/>

**Disclaimer:**

World Mining Data is provided as a public service by the Federal Ministry of Agriculture, Regions and Tourism (BMLRT). The information presented does not necessarily reflect the views of the BMLRT and as such is not an official record.

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

# Charts

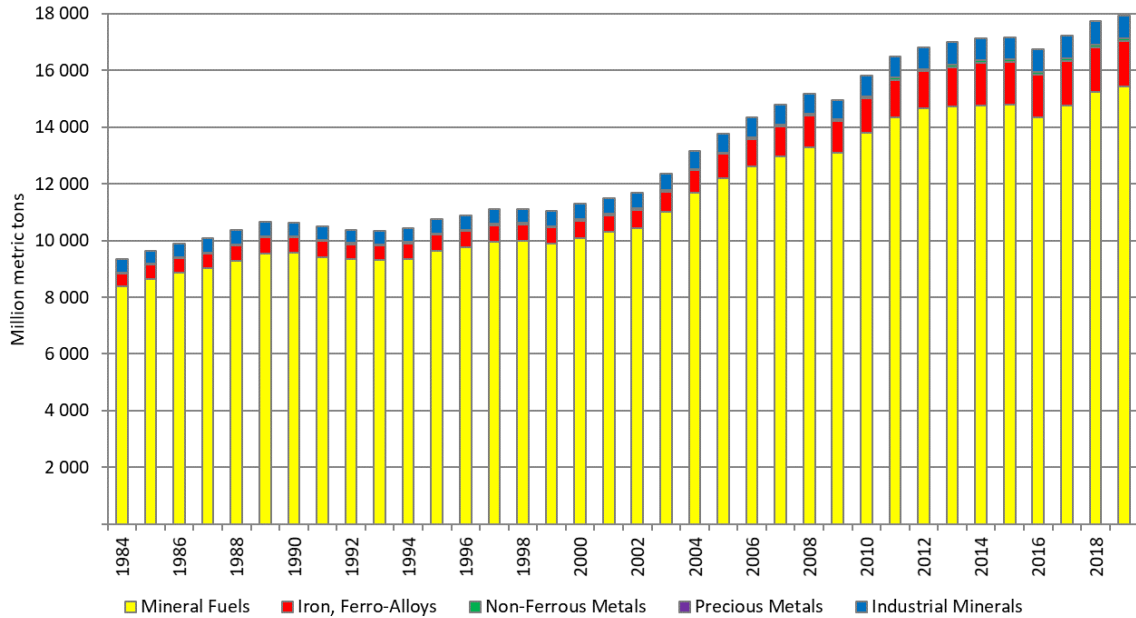


Fig. 1: World mining production 1984 - 2019 by groups of minerals (without construction minerals, in Million metr. t)

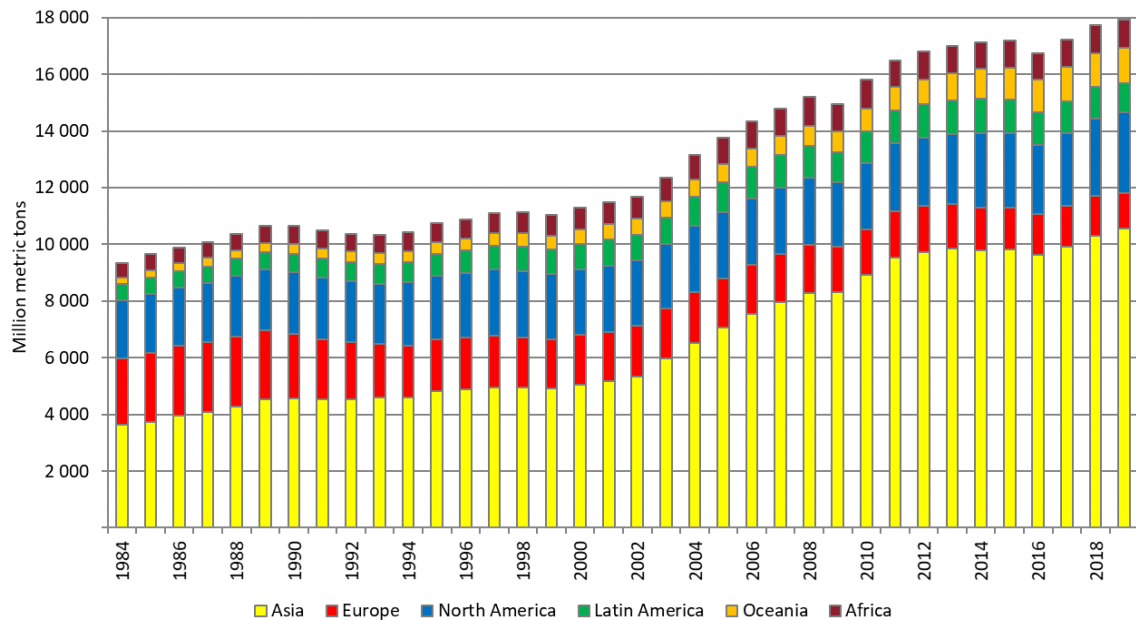


Fig. 2: World mining production 1984 - 2019 by continents (without construction minerals, in Million metr. t)

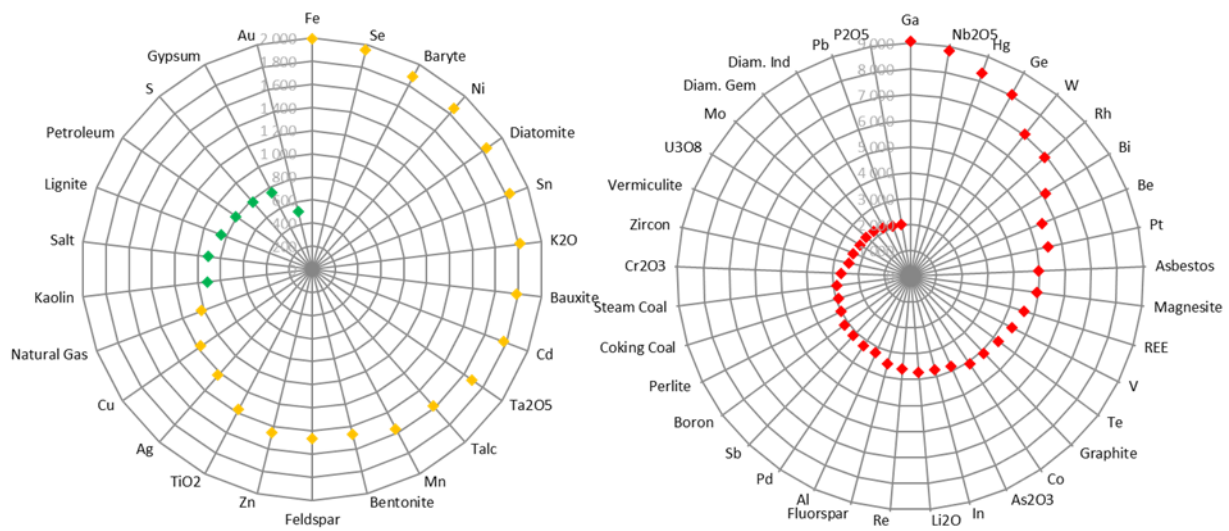


Fig. 3: Concentration of Producer Countries, Herfindahl-Hirschman Indices in 2019

left figure: HHI < 2 000

(Country Concentration  $\diamond$  low,  $\diamond$  moderate)

right figure: HHI > 2 000

(Country Concentration  $\diamond$  high)

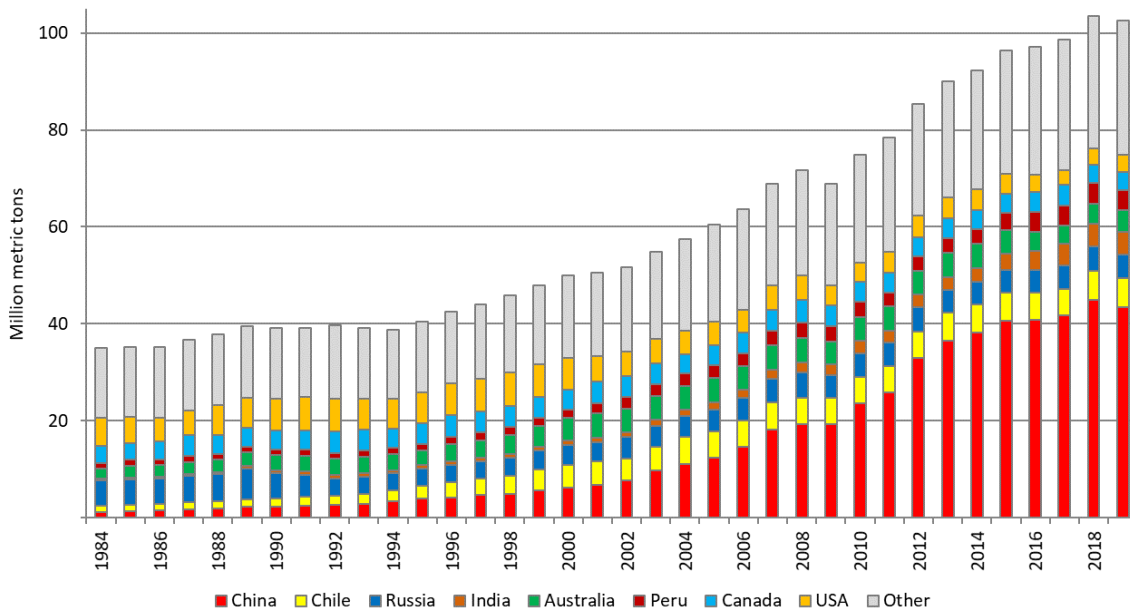


Fig. 4: World mining production 1984 - 2019 by groups of minerals: Non-Ferrous Metals by largest producer countries (in Million metr. t)

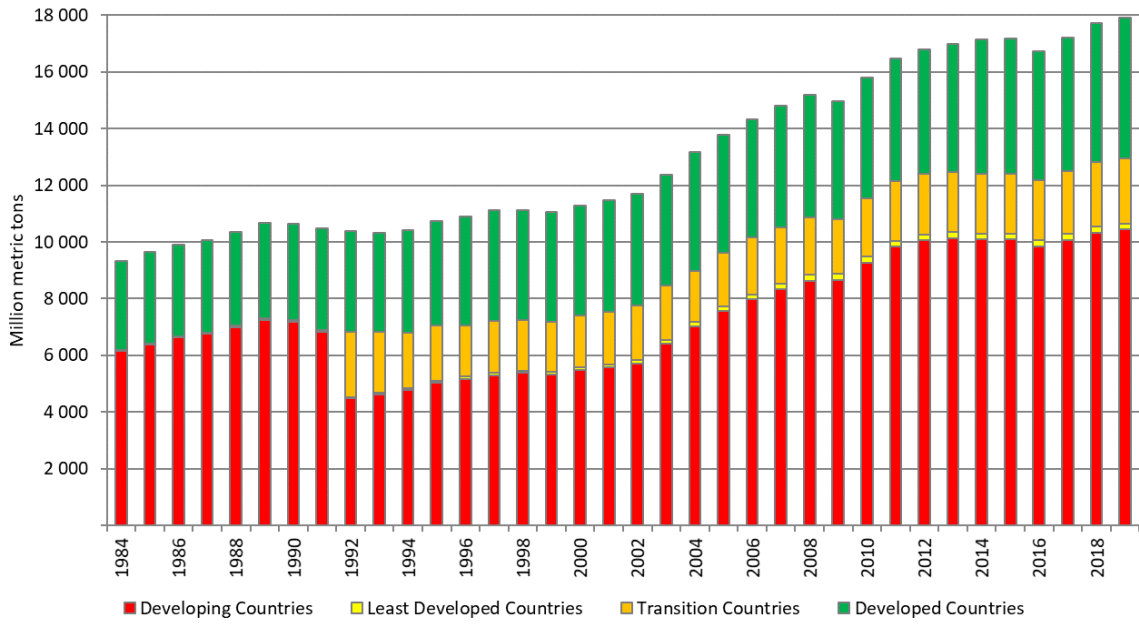


Fig. 5: World mining production 1984 - 2019 by development status of the producer countries (without construction minerals, in Million metr. t)

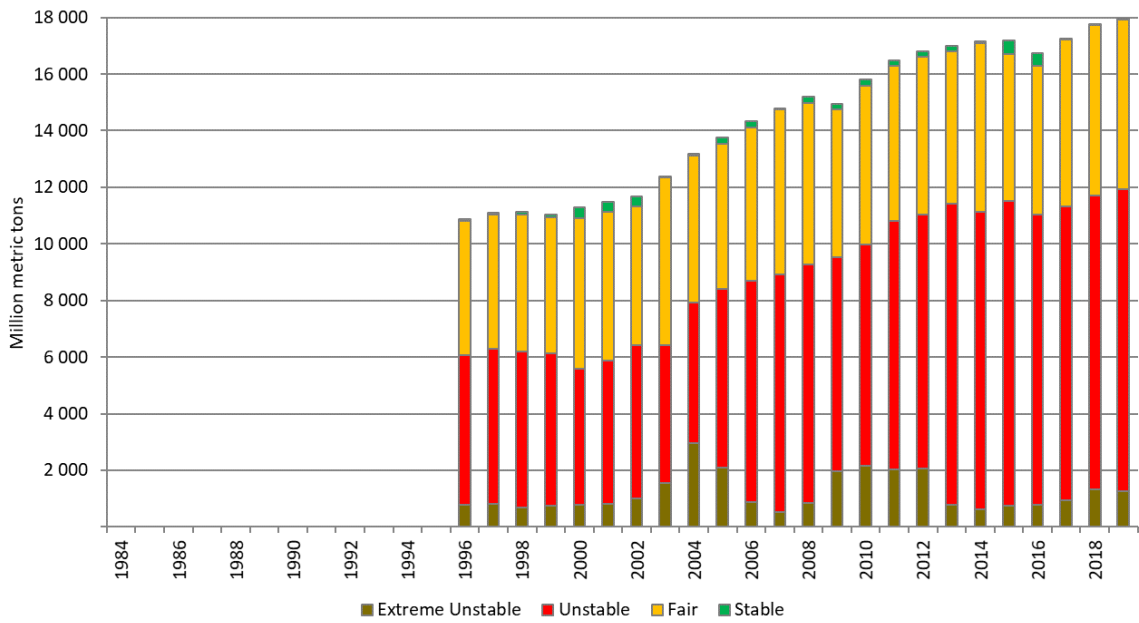


Fig. 6: World mining production 1984 - 2019 by political stability of the producer countries (without construction minerals, in Million metr. t)

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

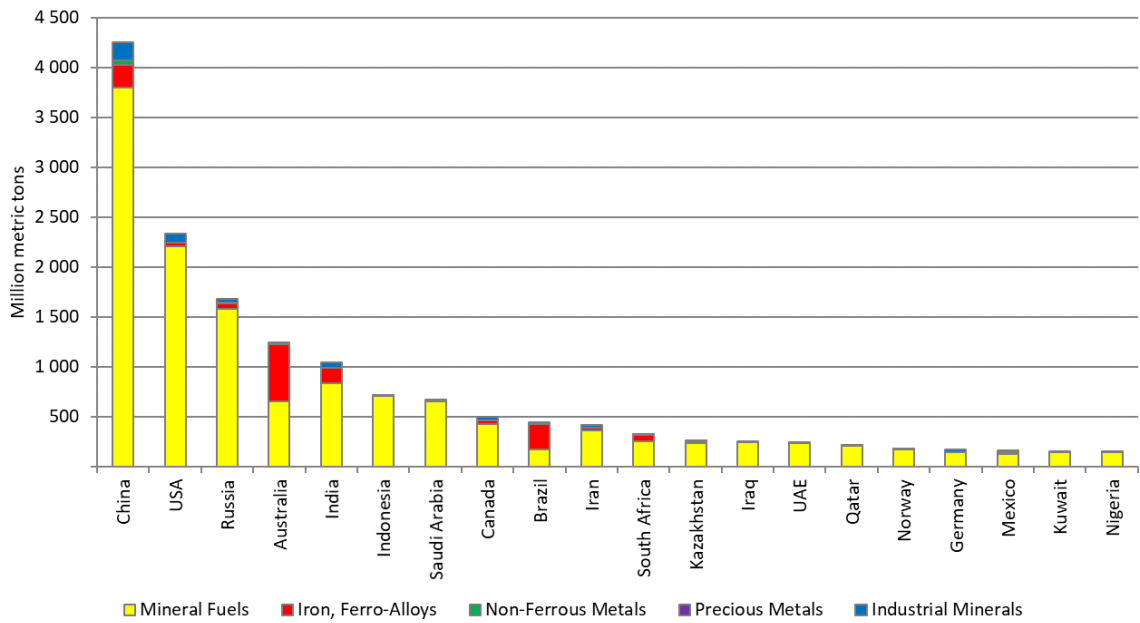


Fig. 7: 20 largest producer countries 2019 (without construction minerals, in Million metr. t)

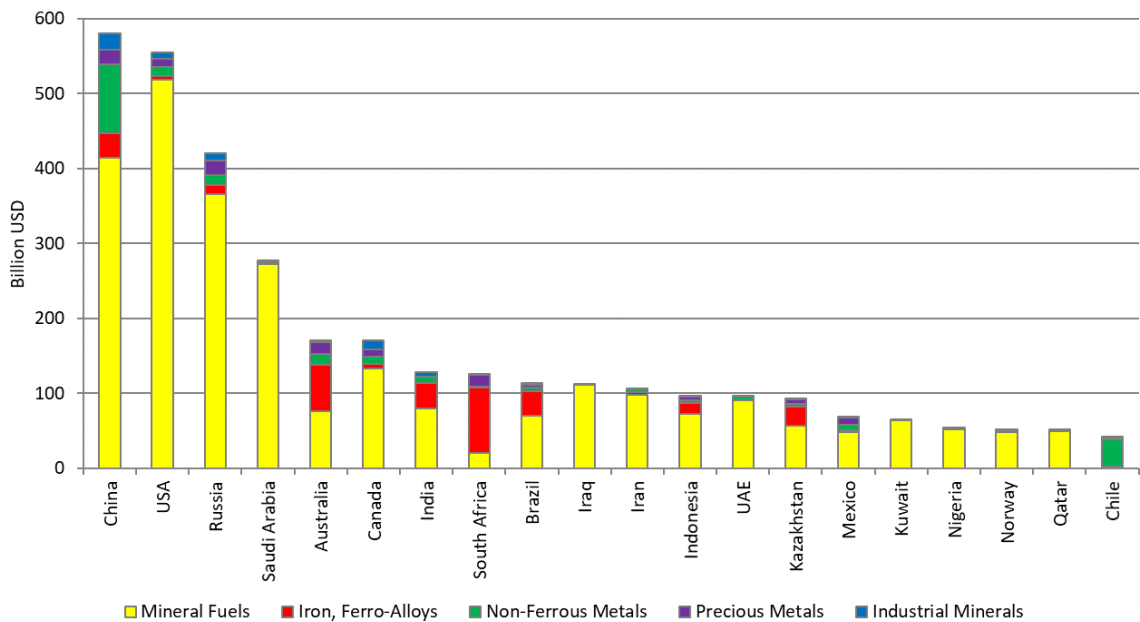


Fig. 8: 20 largest producer countries 2019 (without construction minerals, in Billion USD)

# 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	4 572 699 935	4 530 151 965	4 548 105 819	4 612 327 228
Europe	2 424 486 765	2 260 384 385	2 123 019 949	1 988 379 941	1 874 954 144
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>10 644 976 293</b>	<b>10 492 920 680</b>	<b>10 379 214 125</b>	<b>10 327 173 804</b>
	1994	1995	1996	1997	1998
Africa	652 593 419	686 972 850	680 883 877	713 277 901	720 075 978
Asia	4 588 371 102	4 815 063 292	4 873 674 444	4 962 346 159	4 960 064 676
Europe	1 826 561 087	1 833 416 582	1 832 206 619	1 827 938 669	1 746 822 767
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	2 335 244 041
Oceania	392 630 850	415 408 333	429 772 081	462 884 590	477 032 547
<b>Total</b>	<b>10 423 198 126</b>	<b>10 749 363 546</b>	<b>10 888 781 478</b>	<b>11 110 218 953</b>	<b>11 125 974 636</b>



	1999	2000	2001	2002	2003
Africa	732 165 377	765 733 161	773 456 477	781 715 961	833 951 331
Asia	4 922 979 716	5 044 306 054	5 163 015 786	5 348 371 787	5 961 906 453
Europe	1 720 781 656	1 755 676 994	1 753 014 214	1 776 917 711	1 778 184 220
Latin America	878 609 070	908 640 909	917 493 878	921 057 336	953 426 686
North America	2 305 148 355	2 301 239 584	2 334 892 251	2 298 672 461	2 260 859 945
Oceania	484 371 047	515 396 283	542 716 215	559 952 299	573 865 355
<b>Total</b>	<b>11 044 055 221</b>	<b>11 290 992 985</b>	<b>11 484 588 821</b>	<b>11 686 687 555</b>	<b>12 362 193 990</b>
	2004	2005	2006	2007	2008
Africa	890 333 467	944 557 106	957 844 493	975 719 824	996 725 540
Asia	6 529 047 378	7 060 215 805	7 544 866 813	7 946 326 405	8 280 478 013
Europe	1 788 199 524	1 749 570 759	1 728 435 217	1 717 358 983	1 700 017 087
Latin America	1 031 040 611	1 066 981 049	1 104 701 083	1 130 871 364	1 121 552 522
North America	2 330 851 756	2 319 121 413	2 355 922 952	2 347 097 098	2 381 154 781
Oceania	597 542 934	629 027 925	643 587 222	675 817 593	710 116 169
<b>Total</b>	<b>13 167 015 670</b>	<b>13 769 474 057</b>	<b>14 335 357 780</b>	<b>14 793 191 267</b>	<b>15 190 044 112</b>
	2009	2010	2011	2012	2013
Africa	963 712 121	1 009 671 549	929 029 245	995 271 428	965 247 288
Asia	8 315 454 457	8 912 444 688	9 519 403 891	9 728 539 771	9 850 220 057
Europe	1 605 815 455	1 621 447 085	1 638 139 459	1 617 698 857	1 573 626 198
Latin America	1 067 014 561	1 129 489 035	1 171 345 181	1 185 412 165	1 172 149 739
North America	2 273 147 815	2 333 699 702	2 410 228 954	2 418 164 070	2 471 276 842
Oceania	730 579 686	801 849 138	817 953 467	866 165 112	960 861 697
<b>Total</b>	<b>14 955 724 095</b>	<b>15 808 601 197</b>	<b>16 486 100 197</b>	<b>16 811 251 403</b>	<b>16 993 381 821</b>
	2014	2015	2016	2017	2018
Africa	947 121 396	940 157 848	913 585 218	964 574 915	978 736 001
Asia	9 793 031 358	9 811 051 285	9 634 838 023	9 907 613 569	10 292 448 300
Europe	1 508 338 054	1 487 131 521	1 449 220 109	1 462 447 477	1 417 802 540
Latin America	1 203 841 307	1 196 626 694	1 158 695 515	1 151 746 597	1 100 126 689
North America	2 621 373 123	2 609 008 328	2 411 104 226	2 538 182 552	2 731 927 600
Oceania	1 067 625 535	1 138 360 745	1 168 145 720	1 197 930 220	1 213 400 638
<b>Total</b>	<b>17 141 330 773</b>	<b>17 182 336 421</b>	<b>16 735 588 811</b>	<b>17 222 495 330</b>	<b>17 734 441 768</b>
	2019	2020	2021	2022	2023
Africa	983 046 049				
Asia	10 549 306 426				
Europe	1 266 683 433				
Latin America	1 028 619 331				
North America	2 834 790 837				
Oceania	1 261 022 420				
<b>Total</b>	<b>17 923 468 496</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
<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
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	245 237 198	267 665 055	279 560 593	293 916 986
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
<b>Total</b>	<b>10 664 208 329</b>	<b>10 644 976 293</b>	<b>10 492 920 680</b>	<b>10 379 214 125</b>	<b>10 327 173 804</b>
	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	2 335 280 041
PAO	403 090 498	426 137 006	439 819 631	470 860 516	484 074 557
PAS	298 031 680	323 476 372	343 706 107	353 526 397	347 715 554
SAS	404 686 390	434 661 185	453 450 881	476 071 333	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
<b>Total</b>	<b>10 423 198 126</b>	<b>10 749 363 546</b>	<b>10 888 781 478</b>	<b>11 110 218 953</b>	<b>11 125 974 636</b>

	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	1 244 468 946	1 245 374 547	1 298 774 135	1 352 606 566
LAM	878 573 070	908 640 909	917 493 878	921 057 336	953 426 686
MEA	1 223 230 192	1 302 674 352	1 307 950 815	1 261 079 641	1 368 593 540
NAF	274 893 639	291 278 229	292 003 404	295 825 223	323 298 425
NAM	2 305 184 355	2 301 239 584	2 334 892 251	2 298 672 461	2 260 859 945
PAO	491 866 308	523 507 970	552 224 132	565 783 177	580 132 168
PAS	362 426 217	358 971 563	374 961 472	388 180 373	413 519 587
SAS	484 445 067	503 113 142	524 386 470	555 615 559	595 343 890
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	1 062 934 828	1 069 459 866	1 048 015 211
Total	11 044 055 221	11 290 992 985	11 484 588 821	11 686 687 555	12 362 193 990
	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	403 601 364
FSU	1 415 223 481	1 484 092 797	1 556 651 618	1 634 919 377	1 628 588 922
LAM	1 031 040 611	1 066 981 049	1 104 701 083	1 130 871 364	1 121 552 522
MEA	1 480 782 328	1 526 129 547	1 549 362 032	1 561 177 930	1 644 519 599
NAF	339 847 316	362 782 695	377 028 093	382 239 724	387 374 745
NAM	2 330 851 756	2 319 121 413	2 355 922 952	2 347 097 098	2 381 154 781
PAO	604 064 358	635 461 951	649 863 051	683 001 860	717 351 665
PAS	447 885 708	479 261 764	537 135 540	554 860 744	561 850 810
SAS	643 835 864	691 978 045	737 812 235	785 124 909	824 863 266
SSA	550 486 151	581 774 411	580 816 400	593 480 100	609 350 795
WEU	1 048 837 551	1 022 437 086	994 262 066	987 359 171	975 715 023
Total	13 167 015 670	13 769 474 057	14 335 357 780	14 793 191 267	15 190 044 112
	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	4 006 909 173	4 357 681 993	4 426 681 435	4 520 736 998
EEU	381 301 733	378 624 410	408 561 544	398 200 154	376 890 716
FSU	1 552 185 383	1 660 773 735	1 707 743 056	1 722 891 141	1 720 895 457
LAM	1 067 014 561	1 129 489 035	1 171 345 181	1 185 412 165	1 172 149 739
MEA	1 562 962 007	1 673 115 939	1 809 950 710	1 855 144 229	1 851 388 309
NAF	367 604 086	371 797 046	297 616 352	340 316 664	308 387 628
NAM	2 273 147 815	2 333 699 702	2 410 228 954	2 418 164 070	2 471 276 842
PAO	737 627 761	808 810 817	824 397 700	872 603 718	967 050 682
PAS	607 046 871	661 417 538	743 050 029	808 514 678	835 296 797
SAS	887 883 635	891 533 102	877 403 823	878 380 623	890 147 659
SSA	596 108 035	637 874 503	631 412 893	654 954 764	656 859 660
WEU	913 771 164	916 084 352	885 049 879	878 777 281	851 861 181
Total	14 955 724 095	15 808 601 197	16 486 100 197	16 811 251 403	16 993 381 821

	2014	2015	2016	2017	2018
CAS	375 243 149	365 186 741	346 469 455	370 134 913	388 592 920
CPA	4 425 015 190	4 348 791 188	3 992 982 388	4 108 809 967	4 245 938 046
EEU	359 968 595	371 841 754	359 620 722	363 874 882	351 701 696
FSU	1 692 735 930	1 687 746 133	1 697 048 410	1 782 426 697	1 850 048 820
LAM	1 203 841 307	1 196 626 694	1 158 695 515	1 151 746 597	1 100 126 689
MEA	1 879 647 654	1 973 764 883	2 078 470 902	2 071 168 344	2 105 126 837
NAF	277 801 418	267 480 536	272 671 637	302 528 852	315 332 859
NAM	2 621 373 123	2 609 008 328	2 411 104 226	2 538 182 552	2 731 927 600
PAO	1 071 652 878	1 140 242 987	1 169 995 935	1 199 890 772	1 216 019 679
PAS	825 962 058	782 821 687	802 972 599	833 559 500	875 329 006
SAS	920 711 738	965 275 697	1 018 847 070	1 043 496 336	1 100 283 485
SSA	669 319 978	672 677 312	640 913 581	662 046 063	663 403 142
WEU	818 057 755	800 872 481	785 796 371	794 629 855	790 610 989
<b>Total</b>	<b>17 141 330 773</b>	<b>17 182 336 421</b>	<b>16 735 588 811</b>	<b>17 222 495 330</b>	<b>17 734 441 768</b>
	2019	2020	2021	2022	2023
CAS	384 534 924				
CPA	4 411 961 516				
EEU	333 359 647				
FSU	1 856 802 050				
LAM	1 028 619 331				
MEA	2 045 843 834				
NAF	321 512 074				
NAM	2 834 790 837				
PAO	1 263 110 361				
PAS	943 441 545				
SAS	1 116 684 747				
SSA	661 533 975				
WEU	721 273 655				
<b>Total</b>	<b>17 923 468 496</b>				

### 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
<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
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	7 187 218 494	6 842 558 270	4 473 843 968	4 614 747 302
Least Developed C.	54 092 975	56 771 658	53 801 302	54 488 934	55 477 802
<b>Total</b>	<b>10 664 208 329</b>	<b>10 644 976 293</b>	<b>10 492 920 680</b>	<b>10 379 214 125</b>	<b>10 327 173 804</b>
	1994	1995	1996	1997	1998
Developed C.	3 638 962 969	3 680 354 448	3 845 630 378	3 890 709 483	3 879 922 112
Transition C.	1 950 421 115	1 969 276 084	1 798 315 604	1 836 450 533	1 781 251 715
Developing C.	4 770 145 633	5 026 069 051	5 167 821 218	5 303 666 187	5 382 248 204
Least Developed C.	63 668 409	73 663 963	77 014 278	79 392 750	82 552 605
<b>Total</b>	<b>10 423 198 126</b>	<b>10 749 363 546</b>	<b>10 888 781 478</b>	<b>11 110 218 953</b>	<b>11 125 974 636</b>
	1999	2000	2001	2002	2003
Developed C.	3 856 722 698	3 893 534 201	3 951 138 060	3 937 337 315	3 895 549 196
Transition C.	1 755 542 775	1 818 095 809	1 842 263 400	1 905 784 632	1 934 423 648
Developing C.	5 336 464 282	5 479 263 679	5 581 003 197	5 721 792 323	6 407 525 440
Least Developed C.	95 325 466	100 099 296	110 184 164	121 773 285	124 695 706
<b>Total</b>	<b>11 044 055 221</b>	<b>11 290 992 985</b>	<b>11 484 588 821</b>	<b>11 686 687 555</b>	<b>12 362 193 990</b>
	2004	2005	2006	2007	2008
Developed C.	4 189 210 289	4 163 923 926	4 172 447 561	4 266 727 446	4 315 620 267
Transition C.	1 802 291 299	1 882 778 218	2 015 893 137	2 009 720 537	2 033 645 432
Developing C.	7 027 486 349	7 550 083 945	7 969 964 658	8 322 135 181	8 635 368 805
Least Developed C.	148 027 733	172 687 968	177 052 424	194 608 103	205 409 608
<b>Total</b>	<b>13 167 015 670</b>	<b>13 769 474 057</b>	<b>14 335 357 780</b>	<b>14 793 191 267</b>	<b>15 190 044 112</b>
	2009	2010	2011	2012	2013
Developed C.	4 153 991 760	4 278 021 946	4 322 308 348	4 401 188 729	4 508 762 986
Transition C.	1 928 778 614	2 054 141 580	2 130 532 101	2 150 286 327	2 143 208 290
Developing C.	8 671 234 837	9 266 542 691	9 836 501 049	10 062 848 057	10 127 161 632
Least Developed C.	201 718 884	209 894 980	196 758 699	196 928 290	214 248 913
<b>Total</b>	<b>14 955 724 095</b>	<b>15 808 601 197</b>	<b>16 486 100 197</b>	<b>16 811 251 403</b>	<b>16 993 381 821</b>
	2014	2015	2016	2017	2018
Developed C.	4 730 940 350	4 773 963 837	4 563 661 006	4 735 628 873	4 915 563 636
Transition C.	2 109 703 606	2 104 575 004	2 100 579 411	2 204 451 705	2 288 262 876
Developing C.	10 081 884 024	10 092 650 450	9 856 464 269	10 065 924 630	10 332 582 180
Least Developed C.	218 802 793	211 147 130	214 884 125	216 490 122	198 033 076
<b>Total</b>	<b>17 141 330 773</b>	<b>17 182 336 421</b>	<b>16 735 588 811</b>	<b>17 222 495 330</b>	<b>17 734 441 768</b>
	2019	2020	2021	2022	2023
Developed C.	4 970 112 207				
Transition C.	2 298 080 584				
Developing C.	10 461 605 526				
Least Developed C.	193 670 179				
<b>Total</b>	<b>17 923 468 496</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	222 098 365	246 759 854	258 533 345	271 524 197
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	278 632 630	323 125 214	346 337 201	361 326 702	360 372 142
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	4 005 311 774
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	2 572 106 294
OECD	3 915 629 816	4 033 188 632	4 380 190 069	4 432 501 658	4 414 175 770
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	377 113 142	377 104 728	397 866 685	414 935 566	444 204 836
BRICS	0	0	3 451 167 909	3 694 041 059	4 178 820 953
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	774 230 249	781 910 733	759 464 745
EFTA	194 749 270	206 691 249	212 922 426	218 397 044	221 357 270
G7	3 967 487 533	3 964 170 188	3 983 397 022	3 992 259 069	3 987 750 189
MERCOSUR	282 748 724	305 879 670	301 536 799	318 735 895	332 243 088
NAFTA	2 536 669 446	2 534 729 551	2 570 665 745	2 534 929 771	2 509 369 211
OECD	4 378 357 400	4 409 391 623	4 465 400 217	4 441 191 375	4 412 783 976
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	492 732 022	529 611 256	591 312 431	612 391 283	616 303 386
BRICS	4 612 848 255	5 045 888 677	5 436 683 402	5 810 738 805	6 019 544 331
CPE	2 578 938 575	2 898 313 380	3 174 769 557	3 410 693 615	3 590 107 096
EC	1 040 986 842	1 002 209 826	965 917 309	1 030 287 251	1 006 539 789
EFTA	223 187 755	214 901 567	208 170 789	200 006 268	203 721 928
G7	4 102 984 296	4 122 216 418	4 191 721 733	4 241 073 094	4 243 883 346
MERCOSUR	361 091 110	384 188 065	628 913 827	652 236 026	646 652 940
NAFTA	2 583 526 937	2 574 010 854	2 608 184 809	2 595 776 644	2 613 919 191
OECD	4 507 549 042	4 497 723 494	4 513 860 327	4 515 794 378	4 553 076 387
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	709 880 399
ASEAN	669 148 950	725 237 499	808 542 097	871 646 184	898 891 951
BRICS	6 076 129 645	6 536 173 481	6 925 002 098	7 329 854 164	7 422 549 423
CPE	3 692 365 651	4 008 930 645	4 359 700 799	4 428 524 848	4 522 041 998
EC	937 161 047	935 527 638	938 730 155	917 261 627	882 766 703
EFTA	200 145 508	193 287 487	182 613 943	187 123 786	179 012 688
G7	4 041 672 477	4 189 608 194	4 291 226 745	4 297 937 750	4 332 807 336
MERCOSUR	594 891 174	640 389 557	653 339 655	655 377 112	635 772 996
NAFTA	2 496 974 757	2 560 056 745	2 637 344 755	2 648 936 435	2 700 812 133
OECD	4 379 168 777	4 567 039 781	4 643 807 367	4 695 805 262	4 813 584 721
SADC	397 770 207	412 907 945	405 408 384	424 111 445	430 042 605
	2014	2015	2016	2017	2018
ACP	722 379 284	724 702 966	686 622 373	708 841 849	710 807 501
ASEAN	887 944 761	850 266 282	873 961 421	904 036 688	953 040 668
BRICS	7 385 364 044	7 377 039 616	7 056 626 112	7 326 656 685	7 574 362 899
CPE	4 426 719 861	4 346 093 506	3 982 074 540	4 097 366 300	4 231 858 154
EC	848 084 325	826 137 986	781 121 795	792 313 123	769 347 362
EFTA	180 353 090	189 222 630	190 505 921	194 038 527	186 758 101
G7	2 980 294 828	2 964 043 201	2 751 797 758	2 877 129 308	3 065 626 708
MERCOSUR	663 919 488	686 405 815	666 849 599	679 300 938	634 109 073
NAFTA	2 843 547 647	2 808 320 028	2 604 971 128	2 714 982 252	2 905 191 597
OECD	5 023 821 114	5 035 327 091	4 834 791 985	4 986 294 980	5 185 280 720
SADC	441 961 630	435 456 388	423 608 617	438 144 931	435 185 535

	2019	2020	2021	2022	2023
ACP	707 637 661				
ASEAN	1 024 131 816				
BRICS	7 734 769 050				
CPE	4 398 283 425				
EC	685 204 790				
EFTA	176 019 207				
G7	3 127 364 051				
MERCOSUR	581 193 784				
NAFTA	2 995 657 014				
OECD	5 230 881 349				
SADC	423 324 200				

### 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	386 097 831
Fair	4 720 754 587	4 739 358 038	4 838 229 854	4 826 053 726	5 327 732 338
Unstable	5 306 531 222	5 466 715 594	5 511 495 328	5 375 167 667	4 795 679 370
Extreme Unstable	767 506 847	817 485 198	671 970 750	741 745 598	781 483 446
<b>Total</b>	<b>10 888 781 478</b>	<b>11 110 218 953</b>	<b>11 125 974 636</b>	<b>11 044 055 221</b>	<b>11 290 992 985</b>
	2001	2002	2003	2004	2005
Stable	355 091 757	349 514 335	19 634 161	48 923 713	244 572 994
Fair	5 268 044 215	4 913 907 328	5 932 716 399	5 179 758 412	5 101 725 220
Unstable	5 043 019 240	5 418 222 038	4 871 965 853	4 975 695 936	6 329 791 774
Extreme Unstable	818 433 609	1 005 043 854	1 537 877 577	2 962 637 609	2 093 384 069
<b>Total</b>	<b>11 484 588 821</b>	<b>11 686 687 555</b>	<b>12 362 193 990</b>	<b>13 167 015 670</b>	<b>13 769 474 057</b>
	2006	2007	2008	2009	2010
Stable	237 581 857	24 936 013	209 989 308	218 606 014	212 765 789
Fair	5 396 410 176	5 853 661 793	5 715 664 632	5 218 555 656	5 607 179 950
Unstable	7 835 895 151	8 376 878 527	8 429 404 407	7 556 265 450	7 829 050 907
Extreme Unstable	865 470 596	537 714 934	834 985 765	1 962 296 975	2 159 604 551
<b>Total</b>	<b>14 335 357 780</b>	<b>14 793 191 267</b>	<b>15 190 044 112</b>	<b>14 955 724 095</b>	<b>15 808 601 197</b>
	2011	2012	2013	2014	2015
Stable	195 766 480	205 844 512	198 458 622	36 627 685	460 697 197
Fair	5 477 096 401	5 555 921 798	5 377 197 740	5 964 996 101	5 212 952 045
Unstable	8 770 742 225	8 997 471 875	10 622 393 132	10 522 154 955	10 776 214 383
Extreme Unstable	2 042 495 091	2 052 013 218	795 332 327	617 552 032	732 472 796
<b>Total</b>	<b>16 486 100 197</b>	<b>16 811 251 403</b>	<b>16 993 381 821</b>	<b>17 141 330 773</b>	<b>17 182 336 421</b>



	2016	2017	2018	2019	2020
Stable	454 832 372	12 485 226	11 848 125	11 611 023	
Fair	5 235 727 368	5 879 563 160	6 015 715 942	5990205552	
Unstable	10 254 943 142	10 377 261 949	10 381 274 051	10651417948	
Extreme Unstable	790 085 929	953 184 995	1 325 603 650	1270233973	
<b>Total</b>	<b>16 735 588 811</b>	<b>17 222 495 330</b>	<b>17 734 441 768</b>	<b>17 923 468 496</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	9 557 521 644	9 425 664 643	9 355 471 350	9 307 415 221
<b>Total</b>	<b>10 664 208 329</b>	<b>10 644 976 293</b>	<b>10 492 920 680</b>	<b>10 379 214 125</b>	<b>10 327 173 804</b>
	1994	1995	1996	1997	1998
Iron and Ferro-Alloys	546 406 670	576 942 940	564 348 633	590 618 957	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	9 361 873 596	9 639 050 141	9 780 535 380	9 957 772 023	9 982 526 157
<b>Total</b>	<b>10 423 198 126</b>	<b>10 749 363 546</b>	<b>10 888 781 478</b>	<b>11 110 218 953</b>	<b>11 125 974 636</b>
	1999	2000	2001	2002	2003
Iron and Ferro-Alloys	582 308 731	627 275 344	596 608 975	642 384 480	691 370 023
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	539 016 487	536 604 685	541 608 287	589 405 791
Mineral Fuels	9 881 549 707	10 074 681 091	10 300 796 112	10 450 902 577	11 026 491 379
<b>Total</b>	<b>11 044 055 221</b>	<b>11 290 992 985</b>	<b>11 484 588 821</b>	<b>11 686 687 555</b>	<b>12 362 193 990</b>

	2004	2005	2006	2007	2008
Iron and Ferro-Alloys	785 607 897	856 899 727	961 352 050	1 062 519 761	1 118 833 612
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	633 206 584	656 119 074	678 722 771	692 578 581	699 776 733
Mineral Fuels	11 690 659 224	12 195 905 002	12 631 609 105	12 969 165 134	13 299 766 219
<b>Total</b>	<b>13 167 015 670</b>	<b>13 769 474 057</b>	<b>14 335 357 780</b>	<b>14 793 191 267</b>	<b>15 190 044 112</b>
	2009	2010	2011	2012	2013
Iron and Ferro-Alloys	1 101 474 548	1 222 295 731	1 306 796 719	1 318 978 971	1 399 757 455
Non-Ferrous Metals	68 786 776	74 868 157	78 343 822	85 356 293	90 051 423
Precious Metals	25 518	26 727	26 914	28 217	29 533
Industrial Minerals	673 286 406	712 199 245	740 021 897	752 251 496	780 078 283
Mineral Fuels	13 112 150 847	13 799 211 337	14 360 910 845	14 654 636 426	14 723 465 127
<b>Total</b>	<b>14 955 724 095</b>	<b>15 808 601 197</b>	<b>16 486 100 197</b>	<b>16 811 251 403</b>	<b>16 993 381 821</b>
	2014	2015	2016	2017	2018
Iron and Ferro-Alloys	1 488 475 951	1 493 031 566	1 500 893 352	1 552 335 797	1 570 661 298
Non-Ferrous Metals	92 254 417	96 292 154	97 016 514	98 592 750	103 409 977
Precious Metals	30 686	31 843	31 882	30 723	31 533
Industrial Minerals	783 630 698	789 582 419	788 517 298	797 167 788	810 431 763
Mineral Fuels	14 776 939 021	14 803 398 439	14 349 129 765	14 774 368 272	15 249 907 197
<b>Total</b>	<b>17 141 330 773</b>	<b>17 182 336 421</b>	<b>16 735 588 811</b>	<b>17 222 495 330</b>	<b>17 734 441 768</b>
	2019	2020	2021	2022	2023
Iron and Ferro-Alloys	1 587 909 229				
Non-Ferrous Metals	102 587 155				
Precious Metals	31 539				
Industrial Minerals	797 141 169				
Mineral Fuels	15 435 799 404				
<b>Total</b>	<b>17 923 468 496</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	3 131 550 352	3 129 395 523	3 175 905 827	3 195 425 049
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>9 557 521 644</b>	<b>9 425 664 643</b>	<b>9 355 471 350</b>	<b>9 307 415 221</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	3 166 213 683	3 224 984 309	3 246 472 153	3 378 853 538	3 481 125 604
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>9 361 873 596</b>	<b>9 639 050 141</b>	<b>9 780 535 380</b>	<b>9 957 772 023</b>	<b>9 982 526 157</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	3 419 823 156	3 551 254 023	3 552 122 696	3 529 543 850	3 671 001 806
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	2 096 199 200	2 141 226 400
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>9 881 549 707</b>	<b>10 074 681 091</b>	<b>10 300 796 112</b>	<b>10 450 902 577</b>	<b>11 026 491 379</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	3 853 510 398	3 904 638 510	3 928 670 433	3 911 171 010	3 953 273 591
Petroleum Oilsands	79 595 200	77 093 300	85 577 100	90 068 000	90 885 200
Nat. Gas	2 199 000 800	2 271 964 000	2 355 994 400	2 439 448 800	2 525 096 800
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>11 690 659 224</b>	<b>12 195 905 002</b>	<b>12 631 609 105</b>	<b>12 969 165 134</b>	<b>13 299 766 219</b>
	2009	2010	2011	2012	2013
Steam Coal	5 148 155 149	5 397 763 695	5 743 171 410	5 854 777 988	5 894 706 486
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	3 849 217 077	3 941 689 924	3 972 354 208	4 082 588 300	4 093 696 297
Petroleum Oilsands	97 174 300	104 414 900	109 641 400	121 784 700	127 723 100
Nat. Gas	2 440 824 000	2 649 738 400	2 715 940 800	2 777 054 400	2 772 201 600
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>13 112 150 847</b>	<b>13 799 211 337</b>	<b>14 360 910 845</b>	<b>14 654 636 426</b>	<b>14 723 465 127</b>
	2014	2015	2016	2017	2018
Steam Coal	5 820 055 359	5 667 834 299	5 248 258 226	5 539 666 785	5 832 347 218
Coking Coal	1 118 855 146	1 090 745 410	1 048 119 557	1 020 622 354	989 311 572
Lignite	818 200 727	820 858 221	814 341 535	822 102 579	802 125 671
Petroleum Total	4 168 997 585	4 328 939 424	4 339 473 763	4 346 879 979	4 441 599 473
Petroleum Oilsands	127 943 100	148 574 300	149 572 400	158 202 900	165 081 000
Nat. Gas	2 828 863 200	2 874 442 400	2 882 180 000	3 022 491 200	3 161 664 800
Oil shales	21 899 496	20 506 638	16 682 046	22 534 973	22 794 380
Uranium	67 508	72 047	74 638	70 402	64 083
<b>Total</b>	<b>14 776 939 021</b>	<b>14 803 398 439</b>	<b>14 349 129 765</b>	<b>14 774 368 272</b>	<b>15 249 907 197</b>
	2019	2020	2021	2022	2023
Steam Coal	5 960 426 745				
Coking Coal	1 025 608 759				
Lignite	739 647 601				
Petroleum Total	4 437 210 487				
Petroleum Oilsands	156 809 700				
Nat. Gas	3 256 252 000				
Oil shales	16 589 394				
Uranium	64 418				
<b>Total</b>	<b>15 435 799 404</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	4 471 853 903	4 468 776 807	4 535 193 521	4 563 066 970
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>10 851 116 500</b>	<b>10 636 358 421</b>	<b>10 584 406 113</b>	<b>10 549 911 013</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	4 521 353 139	4 605 277 593	4 635 962 234	4 825 002 852	4 971 047 363
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>10 565 000 480</b>	<b>10 920 799 103</b>	<b>11 103 623 349</b>	<b>11 353 176 794</b>	<b>11 435 112 286</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	4 883 507 467	5 071 190 745	5 072 431 210	5 040 188 618	5 242 190 579
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	2 838 253 717	2 899 220 546
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>11 308 665 387</b>	<b>11 634 632 110</b>	<b>11 839 283 465</b>	<b>11 959 445 624</b>	<b>12 494 766 549</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	5 502 812 848	5 575 823 792	5 610 141 378	5 585 152 202	5 645 274 688
Petroleum Oilsands	113 661 946	110 089 232	122 204 099	128 617 104	129 784 066
Nat. Gas	2 977 447 083	3 076 239 256	3 190 016 418	3 303 013 675	3 418 981 067
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>13 237 052 198</b>	<b>13 706 012 104</b>	<b>14 040 566 223</b>	<b>14 361 586 922</b>	<b>14 725 791 621</b>
	2009	2010	2011	2012	2013
Steam Coal	3 921 037 917	4 093 694 167	4 340 393 395	4 411 200 248	4 436 292 606
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	5 496 681 986	5 628 733 211	5 672 521 809	5 829 936 092	5 845 798 312
Petroleum Oilsands	138 764 900	149 104 477	156 567 919	173 908 552	182 388 587
Nat. Gas	3 304 875 696	3 587 745 794	3 677 383 843	3 760 131 658	3 753 560 966
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>14 628 463 485</b>	<b>15 375 903 062</b>	<b>15 831 502 095</b>	<b>16 260 083 841</b>	<b>16 334 273 866</b>
	2014	2015	2016	2017	2018
Steam Coal	4 389 774 731	4 271 246 339	3 947 941 772	4 160 849 234	4 364 877 472
Coking Coal	864 214 794	844 124 892	812 581 204	796 930 871	774 589 112
Lignite	278 440 353	280 260 416	279 432 669	281 185 409	273 580 703
Petroleum Total	5 953 328 551	6 181 725 497	6 196 768 534	6 207 344 610	6 342 604 047
Petroleum Oilsands	182 702 747	212 164 100	213 589 387	225 913 741	235 735 668
Nat. Gas	3 830 280 773	3 891 995 010	3 902 471 720	4 092 453 085	4 280 894 139
Oilshales	6 635 547	6 213 511	5 054 660	6 828 097	6 906 697
Uranium	1 113 882 000	1 188 775 500	1 231 527 000	1 161 633 000	1 057 369 500
<b>Total</b>	<b>16 436 556 749</b>	<b>16 664 341 165</b>	<b>16 375 777 559</b>	<b>16 707 224 306</b>	<b>17 100 821 670</b>
	2019	2020	2021	2022	2023
Steam Coal	4 447 183 489				
Coking Coal	801 313 361				
Lignite	255 233 986				
Petroleum Total	6 336 336 575				
Petroleum Oilsands	223 924 252				
Nat. Gas	4 408 965 208				
Oilshales	5 026 586				
Uranium	1 062 897 000				
<b>Total</b>	<b>17 316 956 205</b>				

## 6.1.8 Total Minerals Production 2019, 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	4 324 215 796	223 399 619	43 517 715	3 827	180 522 200	3 801 772 435
United States	2 335 902 701	29 705 060	3 446 967	1 195	92 483 000	2 210 111 579
Russia	1 685 517 001	60 922 793	4 962 293	1 783	36 961 009	1 576 028 123
Australia	1 351 363 807	573 168 836	4 480 548	1 651	18 905 029	649 263 956
India	1 060 928 972	155 549 550	4 595 238	444	49 608 714	829 351 233
Indonesia	732 262 426	2 439 850	692 767	596	5 545 225	706 991 248
Saudi Arabia	671 908 378	294 100	1 067 450	18	15 255 800	650 164 010
Canada	499 043 036	33 856 972	3 763 350	630	34 878 614	426 543 470
Brazil	479 111 555	257 196 280	1 200 954	140	17 546 810	171 229 471
Iran	413 639 384	28 468 680	849 166	58	25 252 452	358 240 240
South Africa	320 398 418	61 927 244	937 594	395	3 407 849	254 125 336
Kazakhstan	260 171 657	17 028 508	1 171 176	1 129	5 789 749	232 062 695
Iraq	244 454 060	0	0	0	1 610 000	242 844 060
United Arab Emirates	238 853 710	0	2 579 000	0	6 000 000	230 274 710
Qatar	208 531 835	0	627 400	0	2 050 000	205 854 435
Norway	174 524 266	1 281 116	1 337 870	0	301 880	171 603 400
Germany	169 711 588	94 100	508 894	4	30 025 118	139 083 472
Mexico	160 866 177	10 585 936	1 946 663	7 620	20 517 002	127 808 956
Kuwait	145 187 100	0	0	0	678 300	144 508 800
Nigeria	142 334 709	2 365	53 835	9	95 500	142 183 000
Algeria	140 121 775	409 900	500	0	3 102 175	136 609 200
Turkey	138 921 175	10 408 270	373 495	281	32 515 449	93 368 200
Colombia	135 175 448	339 921	7 641	49	927 504	133 886 800
Poland	127 132 537	755	487 712	1 250	6 790 260	119 852 560
Malaysia	93 764 122	3 102 950	763 725	4	658 860	88 338 022
Ukraine	91 881 056	41 701 250	6	0	5 778 856	44 400 944
Oman	89 718 893	251 350	390 515	0	10 769 828	78 307 200
Egypt	89 426 005	270 000	290 000	15	3 363 500	85 502 490
United Kingdom	89 413 120	0	39 600	0	7 377 600	81 995 920
Vietnam	77 666 243	3 532 386	62 373	1	2 726 483	67 645 000
Angola	72 265 452	0	0	0	141 002	72 124 450
Venezuela	71 444 616	2 062 800	10 000	9	1 151 500	68 170 307
Guinea	70 173 354	0	0	28	0	0
Thailand	68 205 676	13 356	46	0	12 792 189	55 400 085
Turkmenistan	67 671 100	0	0	0	451 100	67 220 000
Libya	66 321 200	0	0	0	360 000	65 961 200
Argentina	62 605 723	0	496 844	1 093	2 053 604	60 054 182
Azerbaijan	57 461 641	0	34 913	12	314 316	57 112 400
Uzbekistan	55 446 573	900	212 285	265	597 334	54 635 789
Mongolia	51 771 082	4 803 290	347 180	79	699 933	45 920 600
Pakistan	49 947 390	296 090	58 504	0	7 150 379	42 348 268
Czech Republic	45 624 169	0	0	0	4 316 000	41 308 169
Serbia	40 314 260	0	68 060	16	133 464	40 112 720
Peru	38 862 075	10 169 262	4 213 616	3 988	6 594 786	17 880 423
Romania	36 450 293	9 290	291 286	19	2 962 178	33 187 520
Bulgaria	33 987 370	0	162 308	47	4 314 400	29 510 615
Greece	32 675 264	29 320	224 043	40	3 487 058	27 555 680
Netherlands	32 429 982	0	82 000	0	5 913 782	26 434 200
Trinidad and Tobago	31 367 580	0	0	0	0	31 367 580
Chile	31 236 069	8 481 983	5 840 821	1 347	14 072 644	2 839 274

Ecuador	26 741 309	0	9 900	9	47 000	26 684 400
Bangladesh	24 378 836	0	0	0	1 224 000	23 154 836
Philippines	21 798 572	341 645	71 992	52	1 936 658	19 448 225
Sweden	19 928 313	19 367 200	535 685	428	25 000	0
Spain	19 830 307	341	534 847	93	19 146 782	148 244
Korea, North	19 730 170	1 146 360	52 850	60	800 900	17 730 000
Myanmar	18 715 432	443 330	328 470	0	525 074	17 418 558
Congo, Rep.	17 937 790	20 200	23 590	0	0	17 894 000
Bahrain	17 310 510	0	1 365 005	0	139 655	15 805 850
Laos	16 850 776	282 180	143 035	39	1 000 466	15 425 056
Bosnia-Herzegovina	16 657 815	739 600	84 320	0	1 414 004	13 376 548
Bolivia	16 407 240	50 564	640 228	1 195	262 126	15 453 127
Brunei	16 043 440	0	0	0	0	16 043 440
Estonia	15 697 400	0	0	0	0	15 697 400
Mozambique	15 567 059	498 970	564 756	0	418 523	14 076 786
Ghana	14 935 080	1 884 050	45 150	146	300 000	11 589 400
Gabon	14 377 300	3 158 100	0	0	0	11 219 200
Italy	13 950 734	0	0	0	5 790 134	8 160 600
Morocco	13 819 152	45 278	112 120	186	13 578 033	83 535
France	12 393 513	0	401 869	0	11 102 044	819 600
Equatorial Guinea	12 160 620	0	0	0	0	12 160 620
Belarus	11 730 283	0	0	0	9 865 883	1 864 400
Israel	10 898 002	0	0	0	3 183 100	7 714 902
New Zealand	10 116 082	1 915 000	351 481	12	151 069	7 698 520
Jamaica	9 087 286	0	0	0	65 000	0
Hungary	8 961 814	0	0	0	79 377	8 882 437
Denmark	8 288 185	0	0	0	760 551	7 527 634
Mauritania	8 087 334	7 927 700	29 620	14	130 000	0
Kosovo	8 073 511	3 360	7 100	0	0	8 063 051
Tunisia	7 505 133	100 700	0	0	4 121 373	3 283 060
Japan	7 174 259	0	3 450	9	4 681 400	2 489 400
South Sudan	6 832 520	0	0	0	0	6 832 520
Chad	6 316 700	0	0	0	0	6 316 700
North Macedonia	5 445 245	0	81 761	19	297 382	5 066 083
Austria	5 378 051	1 038 362	0	0	2 983 836	1 355 853
Cameroon	5 205 600	0	51 700	0	0	5 153 900
Korea, South	5 058 860	368 466	10 217	5	3 391 842	1 288 330
Jordan	4 814 930	0	0	0	4 737 930	77 000
Papua New Guinea	4 755 454	94 706	99 432	216	0	4 561 100
Sudan	4 318 809	9 150	0	59	504 000	3 805 600
Syria	3 942 820	0	0	0	254 000	3 688 820
Cote d'Ivoire	3 934 334	481 800	0	34	0	3 452 500
Cuba	3 600 134	64 100	93 830	0	281 404	3 160 800
Zimbabwe	3 513 344	737 687	11 381	56	34 300	2 729 920
Slovenia	3 295 377	0	68 255	0	1 536	3 225 586
Slovakia	3 200 992	0	175 041	0	1 480 790	1 545 161
Kyrgyzstan	2 967 658	0	8 680	43	170 605	2 788 330
Liberia	2 674 805	2 674 800	0	5	0	0
Congo, D.R.	2 668 529	81 509	1 473 721	37	2	1 113 260
Tanzania	2 548 434	0	14 205	61	376 432	2 157 736
Yemen	2 537 000	0	0	0	70 000	2 467 000
Botswana	2 494 675	0	0	1	383 783	2 110 891
Afghanistan	2 433 016	2 000	0	0	188 616	2 242 400
Montenegro	2 429 477	0	49 552	0	0	1 605 200
Tajikistan	2 396 336	0	295 110	19	49 324	2 051 883
Ireland	2 250 518	0	138 516	2	200 000	1 912 000
Finland	2 205 307	542 034	103 713	50	1 559 510	0
Sierra Leone	2 057 543	165 180	0	0	8 500	0
Zambia	2 034 408	14 241	789 949	5	960 200	270 013
Guyana	1 919 767	0	0	20	0	0
Croatia	1 836 367	0	0	0	293 125	1 528 900
Albania	1 782 830	491 660	5 900	0	128 000	1 157 270



Senegal	1 546 923	282 910	0	16	1 222 697	41 300
Solomon Islands	1 234 030	0	0	0	0	0
Namibia	1 158 785	23 060	145 897	15	983 354	6 459
Niger	1 106 461	0	0	1	0	1 106 460
Portugal	872 813	518	231 792	95	640 408	0
Suriname	825 225	0	0	25	0	825 200
Switzerland	807 325	0	0	0	807 325	0
Guatemala	721 389	55 030	527	0	187 632	478 200
Bahamas	714 387	0	0	0	714 387	0
Cyprus	707 361	0	703	0	706 658	0
Bhutan	700 346	23 590	0	0	491 971	184 785
Iceland	687 616	0	682 616	0	5 000	0
Madagascar	514 866	332 934	30	2	181 900	0
Eritrea	459 313	0	137 268	45	322 000	0
Taiwan	409 019	0	0	0	272 119	136 900
Ethiopia	395 568	564	0	4	395 000	0
Dominican Republic	380 595	28 450	11 574	141	340 430	0
Kenya	380 421	279 260	0	0	68 761	32 400
Latvia	318 450	0	0	0	318 450	0
Togo	290 722	0	0	2	290 720	0
Moldova	276 400	0	0	0	276 400	0
Armenia	276 305	7 137	98 376	24	170 768	0
New Caledonia	211 252	211 252	0	0	0	0
Sri Lanka	203 402	25 940	0	0	177 462	0
Panama	174 906	0	147 480	37	27 389	0
Georgia	158 903	95 000	5 500	3	0	58 400
Honduras	126 689	0	41 777	48	84 864	0
Lithuania	125 610	0	0	0	86 040	39 570
Eswatini	109 926	0	0	0	0	109 926
Burkina Faso	106 736	0	106 680	56	0	0
Nicaragua	94 951	0	0	26	94 925	0
Christmas Island	89 010	0	0	0	89 010	0
Malawi	56 828	1 800	0	0	300	54 728
Barbados	45 880	0	0	0	0	45 880
Burundi	43 275	43 063	211	1	0	0
Nauru	30 600	0	0	0	30 600	0
El Salvador	30 000	0	0	0	30 000	0
Uganda	20 283	146	15	0	20 122	0
Cambodia	18 430	0	0	0	18 430	0
Nepal	10 727	80	0	0	3 463	7 184
Paraguay	10 500	0	0	0	10 500	0
Uruguay	9 290	2 510	0	0	6 780	0
Rwanda	4 337	1 630	2 705	2	0	0
Costa Rica	4 005	0	0	5	4 000	0
Lebanon	3 000	0	0	0	3 000	0
Malta	1 600	0	0	0	1 600	0
Mauritius	1 500	0	0	0	1 500	0
Belgium	1 220	0	1 220	0	0	0
Cape Verde	1 000	0	0	0	1 000	0
Benin	500	0	0	0	500	0
Mali	70	0	0	70	0	0
Fiji	2	0	0	2	0	0
French Guiana	1	0	0	1	0	0
Total	18 286 889 669	1 587 909 229	102 587 155	31 538	797 141 169	15 435 799 404

### 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	583 714	33 040	91 816	18 952	22 785	414 497
United States	555 067	4 231	12 277	10 298	9 032	519 222
Russia	421 049	12 088	12 735	19 824	9 670	366 500
Saudi Arabia	276 745	28	2 228	559	938	272 812
Australia	174 640	62 479	14 408	15 295	2 707	76 057
Canada	170 820	6 574	9 393	9 655	12 284	132 914
India	129 033	33 360	8 975	307	5 791	79 836
South Africa	124 963	87 272	2 007	14 680	850	20 154
Brazil	114 529	32 515	4 090	4 055	2 131	70 620
Iraq	111 371	0	0	0	70	111 301
Iran	106 882	3 848	2 998	391	1 315	98 301
Indonesia	97 180	14 603	4 030	5 130	745	72 093
United Arab Emirates	95 533	0	4 627	0	306	90 601
Kazakhstan	92 631	24 934	4 849	5 303	785	56 614
Mexico	69 236	1 972	7 232	9 895	2 019	48 119
Kuwait	64 117	0	0	0	38	64 079
Nigeria	52 678	34	236	403	9	51 997
Norway	50 600	276	2 400	0	24	47 900
Qatar	50 318	0	1 126	0	105	49 088
Chile	42 445	2 243	35 426	2 404	2 049	324
Algeria	38 699	39	1	3	117	38 539
Peru	34 061	1 792	19 348	7 761	645	4 515
Angola	32 042	0	0	0	13	32 029
Colombia	30 874	593	46	1 653	69	28 513
Oman	29 289	2 300	701	0	104	26 184
United Kingdom	28 852	0	71	2	827	27 951
Libya	27 027	0	0	0	12	27 015
Turkey	25 486	15 345	1 120	1 872	3 436	3 635
Venezuela	25 127	194	18	407	103	24 403
Malaysia	23 511	1 120	1 432	141	94	20 693
Egypt	23 225	25	520	669	286	21 725
Azerbaijan	20 181	0	72	179	31	19 899
Argentina	20 053	0	1 057	2 919	195	15 881
Ghana	14 970	3 438	81	6 377	36	4 999
Congo, D.R.	13 688	2 660	8 991	1 513	0	524
Ecuador	12 830	0	59	283	5	12 482
Uzbekistan	12 629	24	1 041	4 255	132	7 177
Vietnam	12 196	620	357	24	351	10 715
Poland	11 726	11	2 606	681	623	7 805
Ukraine	11 654	5 517	4	0	628	5 506
Turkmenistan	11 422	0	0	0	39	11 383
Gabon	10 920	5 764	0	5	0	5 152
Germany	10 460	9	920	3	5 071	4 458
Zimbabwe	9 767	7 021	86	2 419	10	231
Thailand	9 526	6	1	0	442	9 077
Mongolia	9 271	527	1 889	763	227	5 866
Congo, Rep.	8 396	2	125	7	0	8 262
Philippines	8 192	4 759	434	941	159	1 900
Pakistan	7 597	564	190	0	620	6 220
Belarus	7 144	0	0	0	6 328	816
Bolivia	7 061	41	1 887	2 481	88	2 565
Finland	6 265	5 304	380	437	145	0
Papua New Guinea	6 131	1 108	598	3 230	0	1 195
Myanmar	5 346	984	2 277	11	31	2 043
Albania	5 157	4 635	35	0	4	482
Zambia	5 098	77	4 748	202	49	21
Bahrain	5 011	0	2 449	0	7	2 555

Trinidad and Tobago	4 622	0	0	0	0	4 622
Sudan	4 495	78	0	2 584	40	1 792
Netherlands	4 190	0	148	0	710	3 332
Brunei	3 985	0	0	0	0	3 985
Sweden	3 983	1 821	1 584	576	3	0
Equatorial Guinea	3 947	0	0	0	0	3 947
Romania	3 933	17	562	32	257	3 065
Guinea	3 697	0	0	1 241	0	0
Cote d'Ivoire	3 484	989	0	1 458	0	1 036
Spain	3 461	9	1 767	133	1 520	31
Mozambique	3 393	418	1 013	19	294	1 649
South Sudan	3 218	0	0	0	0	3 218
Italy	3 026	0	0	0	568	2 458
Mali	2 990	0	0	2 990	0	0
Chad	2 975	0	0	0	0	2 975
New Caledonia	2 972	2 972	0	0	0	0
Bangladesh	2 959	0	0	0	147	2 812
Denmark	2 763	0	0	0	114	2 649
Israel	2 547	0	0	0	1 641	905
Burkina Faso	2 527	0	272	2 255	0	0
Tanzania	2 497	0	86	2 174	17	220
New Zealand	2 431	180	631	370	20	1 231
Cuba	2 408	945	219	0	26	1 217
Bulgaria	2 310	0	795	355	499	661
Korea, North	2 263	152	128	474	126	1 383
France	2 074	0	724	0	997	350
Czech Republic	1 993	0	0	0	657	1 335
Morocco	1 974	146	365	107	1 345	11
Cameroon	1 966	0	93	20	0	1 853
Dominican Republic	1 936	396	50	1 484	6	0
Greece	1 880	353	422	124	251	681
Laos	1 743	27	861	251	256	348
Serbia	1 726	0	317	78	21	1 310
Estonia	1 633	0	0	0	0	1 633
Mauritania	1 531	745	178	607	1	0
Jordan	1 522	0	0	0	1 513	9
Suriname	1 486	0	0	1 098	0	389
Tunisia	1 401	9	0	0	354	1 038
Madagascar	1 323	1 131	0	92	99	0
Kyrgyzstan	1 321	0	53	1 075	4	189
Tajikistan	1 310	0	768	368	4	169
Namibia	1 249	28	420	318	118	365
Iceland	1 225	0	1 225	0	1	0
Yemen	1 140	0	0	0	6	1 133
Senegal	1 131	234	0	652	230	15
Japan	1 119	0	43	284	340	452
Armenia	1 038	189	566	270	13	0
Guatemala	998	765	2	0	6	225
Panama	992	0	886	102	3	0
Guyana	961	0	0	894	0	0
Portugal	858	14	728	50	66	0
Syria	805	0	0	0	18	786
Austria	749	122	0	0	243	384
Hungary	721	0	0	0	6	715
Bosnia-Herzegovina	718	70	160	0	158	294
Niger	689	0	0	54	0	634
Korea, South	662	160	64	11	313	115
Ireland	565	0	344	1	2	218
Slovakia	506	0	314	16	134	43
Eritrea	484	0	405	41	37	0
Liberia	471	251	0	220	0	0
Croatia	440	0	0	0	13	426

Nicaragua	427	0	0	421	7	0
North Macedonia	362	0	209	36	6	111
Georgia	342	173	33	117	0	19
Kenya	328	246	0	18	50	15
Jamaica	317	0	0	0	2	0
Honduras	265	0	100	159	6	0
Botswana	253	0	0	42	46	165
Kosovo	240	47	16	0	0	177
Afghanistan	228	19	0	0	30	179
Rwanda	218	78	50	90	0	0
Sierra Leone	217	135	0	3	13	0
Costa Rica	203	0	0	201	1	0
Slovenia	194	0	122	0	0	72
Montenegro	159	0	97	0	0	35
Ethiopia	158	12	0	126	21	0
Togo	115	0	0	90	26	0
Bahamas	86	0	0	0	86	0
Burundi	69	40	3	26	0	0
Switzerland	60	0	0	0	60	0
Fiji	50	0	0	50	0	0
French Guiana	49	0	0	49	0	0
Sri Lanka	46	21	0	0	25	0
Solomon Islands	43	0	0	0	0	0
Taiwan	36	0	0	0	19	17
Lithuania	23	0	0	0	4	19
Bhutan	21	2	0	0	5	14
Cyprus	20	0	4	2	14	0
Central African Republic	16	0	0	16	0	0
Barbados	16	0	0	0	0	16
Uganda	9	4	0	0	5	0
Eswatini	9	0	0	0	0	9
Belgium	8	0	8	0	0	0
Christmas Island	8	0	0	0	8	0
Malawi	4	0	0	0	0	4
El Salvador	4	0	0	0	4	0
Latvia	3	0	0	0	3	0
Nauru	3	0	0	0	3	0
Moldova	2	0	0	0	2	0
Cambodia	2	0	0	0	2	0
Nepal	1	0	0	0	1	1
Paraguay	1	0	0	0	1	0
Uruguay	1	0	0	0	1	0
Total	4 094 476	396 976	291 232	180 713	108 227	3 104 609



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

### 6.2.1 Iron and Ferro-Alloy Metals

Commodity	2015	2016	2017	2018	2019	Change 15/19 in %
	in metr. t					
Iron	1 454 451 279	1 464 143 976	1 509 478 364	1 525 218 188	1 539 411 815	5.84
Chromium	13 246 341	12 846 719	14 245 463	15 386 784	15 914 256	20.14
Cobalt	147 032	130 739	138 472	158 358	125 158	-14.88
Manganese	16 007 304	14 649 865	18 769 889	19 629 786	21 424 490	33.84
Molybdenum	287 226	263 256	285 378	270 100	276 505	-3.73
Nickel	2 062 138	1 938 492	2 141 797	2 385 664	2 708 954	31.37
Niobium	87 517	88 564	91 980	109 023	135 496	54.82
Tantalum	1 750	1 775	2 263	1 811	1 584	-9.49
Titanium	6 570 200	6 657 820	7 013 924	7 332 528	7 734 519	17.72
Tungsten	88 016	86 714	86 375	84 109	86 153	-2.12
Vanadium	82 763	85 432	81 892	84 947	90 299	9.11

### 6.2.2 Non-Ferrous Metals

Commodity	2015	2016	2017	2018	2019	Change 15/19 in %
	in metr. t					
Aluminium	57 857 723	58 627 629	60 698 876	64 456 760	62 855 762	8.64
Antimony	149 878	155 215	148 941	144 362	125 478	-16.28
Arsenic	37 260	58 917	57 947	52 737	56 641	52.02
Bauxite	294 377 135	289 257 856	311 803 431	345 550 973	363 421 174	23.45
Beryllium	6 938	5 601	5 312	6 118	5 952	-14.21
Bismuth	11 689	10 619	10 607	10 901	9 058	-22.51
Cadmium	23 326	26 341	26 757	24 739	23 697	1.59
Copper	19 353 851	20 514 227	20 078 160	20 707 609	20 673 358	6.82
Gallium	285	194	310	323	374	31.23
Germanium	139	122	98	106	95	-31.65
Indium	847	753	782	830	896	5.79
Lead	4 984 775	4 721 604	4 632 679	4 629 704	4 967 997	-0.34
Lithium	62 587	83 667	162 333	198 464	189 600	202.94
Mercury	3 395	4 094	2 396	2 864	2 452	-27.78
Rare Earths	124 697	131 706	134 521	181 584	202 315	62.25
Rhenium	45	49	45	47	44	-2.22
Selenium	3 275	3 479	3 030	3 180	3 475	6.11
Tellurium	449	466	613	649	604	34.52
Tin	325 034	297 232	315 656	316 878	294 516	-9.39
Zinc	13 345 961	12 374 599	12 313 687	12 672 122	13 174 841	-1.28

### 6.2.3 Precious Metals

Commodity	2015	2016	2017	2018	2019	Change 15/19 in %
	in kg					
Gold	3 120 339	3 257 972	3 334 592	3 376 904	3 292 271	5.51
Palladium	206 195	212 129	204 633	223 387	221 819	7.58
Platinum	190 529	189 542	184 641	189 220	184 197	-3.32
Rhodium	22 964	23 956	23 074	22 938	23 684	3.14
Silver	28 296 340	28 196 098	26 977 931	27 726 401	27 817 074	-1.69

### 6.2.4 Industrial Minerals

Commodity	2015	2016	2017	2018	2019	Change 15/19 in %
	in metr. t (Diamonds in ct)					
Asbestos	1 309 672	1 287 075	1 157 070	1 226 817	1 175 300	-10.26
Baryte	9 734 901	8 742 964	8 954 266	9 150 530	8 814 601	-9.45
Bentonite	18 176 474	19 563 548	21 070 253	21 462 403	21 889 929	20.43
Boron Minerals	4 754 430	4 077 557	4 228 732	4 492 429	4 164 758	-12.40
Diam. (Gem)	70 045 206	70 468 864	79 652 208	80 870 498	77 888 380	11.20
Diam. (Ind)	57 773 153	56 860 994	71 097 653	65 523 269	58 313 745	0.94
Diatomite	1 999 246	1 821 244	2 120 028	2 196 705	2 169 347	8.51
Feldspar	28 102 911	30 864 778	31 259 062	31 190 356	29 793 591	6.02
Fluorspar	6 301 661	5 580 847	5 743 471	6 956 469	7 664 032	21.62
Graphite	1 126 678	1 099 688	896 326	1 041 310	1 133 072	0.57
Gypsum	145 237 815	155 584 231	155 897 014	164 644 356	157 307 166	8.31
Kaolin	38 370 657	39 053 033	40 309 308	40 623 592	38 656 208	0.74
Magnesite	28 336 627	26 895 076	28 163 257	28 716 569	27 332 073	-3.55
Perlite	2 550 031	2 773 455	2 336 838	2 678 224	2 701 313	5.93
Phosphates	82 888 167	83 886 766	79 693 335	71 503 000	71 105 580	-14.22
Potash	40 238 120	38 876 258	42 291 710	43 389 223	41 729 260	3.71
Salt	294 396 489	281 296 350	284 722 426	290 768 464	288 947 516	-1.85
Sulfur	76 603 234	77 773 155	78 586 395	80 499 274	82 526 776	7.73
Talc	7 501 677	7 478 523	7 886 328	7 916 019	7 949 055	5.96
Vermiculite	429 314	433 982	416 091	432 243	415 860	-3.13
Zircon	1 524 289	1 428 743	1 435 849	1 543 751	1 665 707	9.28

## 6.2.5 Mineral Fuels

Commodity	2015	2016	2017	2018	2019	Change 15/19 in %
	in metr. t (Nat. Gas in Mio m <sup>3</sup> )					
Steam Coal	5 667 834 299	5 248 258 226	5 539 666 785	5 832 347 218	5 960 426 745	5.16
Coking Coal	1 090 745 410	1 048 119 557	1 020 622 354	989 311 572	1 025 608 759	-5.97
Hard Coal (Tot)	6 758 579 709	6 296 377 783	6 560 289 139	6 821 658 790	6 986 035 504	3.37
Lignite	820 858 221	814 341 535	822 102 579	802 125 671	739 647 601	-9.89
Coal (Tot)	7 579 437 930	7 110 719 318	7 382 391 718	7 623 784 461	7 725 683 105	1.93
Petroleum	4 328 939 424	4 339 473 763	4 346 879 979	4 441 599 473	4 437 210 487	2.50
Nat. Gas	3 593 053	3 602 725	3 778 114	3 952 081	4 070 315	13.28
Oil Sands*	148 574 300	149 572 400	158 202 900	165 081 000	156 809 700	5.54
Oil Shales	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394	-19.10
Uranium	72 047	74 638	70 402	64 083	64 418	-10.59

\*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)

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	580 394 662	608 537 133	632 252 158	648 117 425	655 015 264
Developing C.	744 306 017	729 097 273	751 727 606	750 640 473	757 600 951
Least Developed C.	11 958 030	13 372 270	12 012 170	9 844 140	10 910 150
Transition C.	117 792 570	113 137 300	113 486 430	116 616 150	115 885 450
<b>Total</b>	<b>1 454 451 279</b>	<b>1 464 143 976</b>	<b>1 509 478 364</b>	<b>1 525 218 188</b>	<b>1 539 411 815</b>
Annual per capita income:					
High Income	590 063 111	618 068 056	642 284 025	657 572 213	663 944 508
Upper Middle Income	701 663 488	661 693 510	680 028 959	680 011 895	661 113 417
Lower Middle Income	157 224 550	178 421 340	181 637 810	183 528 860	210 532 590
Low Income	5 500 130	5 961 070	5 527 570	4 105 220	3 821 300
<b>Total</b>	<b>1 454 451 279</b>	<b>1 464 143 976</b>	<b>1 509 478 364</b>	<b>1 525 218 188</b>	<b>1 539 411 815</b>
Political stability:					
Stable	30 046 460	30 533 160	2 324 640	2 100 000	1 915 000
Fair	566 486 081	604 560 436	661 658 385	664 276 933	672 825 708
Unstable	810 036 048	784 051 850	795 572 409	783 567 715	784 784 277
Extreme Unstable	47 882 690	44 998 530	49 922 930	75 273 540	79 886 830
<b>Total</b>	<b>1 454 451 279</b>	<b>1 464 143 976</b>	<b>1 509 478 364</b>	<b>1 525 218 188</b>	<b>1 539 411 815</b>
Country groups and economic blocks:					
ACP	59 135 810	56 487 960	60 651 280	58 057 900	57 698 310
ASEAN	4 956 620	5 419 070	7 004 255	6 125 090	7 648 130
BRICS	732 396 900	722 418 110	741 721 424	738 923 705	734 728 060
CPE	254 635 740	235 024 180	224 903 030	217 389 320	228 674 730
EC	18 059 365	19 169 623	19 778 056	19 385 032	20 498 770
EFTA	2 252 200	1 425 000	992 700	1 129 900	1 069 700
G7	57 309 000	54 914 100	60 942 600	63 448 700	62 661 300
MERCOSUR	283 439 880	273 162 020	293 734 314	289 671 855	257 337 960
NAFTA	65 314 260	63 293 990	67 887 220	71 778 610	72 898 470
OECD	602 621 051	630 620 906	655 110 735	675 249 103	682 807 968
SADC	47 326 280	43 204 270	48 813 560	48 287 700	47 074 610

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	457 100	469 140	411 060	483 400	514 130
Developing C.	10 203 951	9 827 929	10 974 843	11 748 824	12 167 076
Least Developed C.	82 390	56 650	119 360	76 460	47 950
Transition C.	2 502 900	2 493 000	2 740 200	3 078 100	3 185 100
<b>Total</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 245 463</b>	<b>15 386 784</b>	<b>15 914 256</b>
Annual per capita income:					
High Income	636 780	701 960	592 150	837 030	757 230
Upper Middle Income	11 005 961	10 170 189	11 530 053	12 109 364	12 438 706
Lower Middle Income	1 434 730	1 791 550	1 709 280	2 376 890	2 670 370
Low Income	168 870	183 020	413 980	63 500	47 950
<b>Total</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 245 463</b>	<b>15 386 784</b>	<b>15 914 256</b>
Political stability:					
Stable	0	0	0	0	0
Fair	934 380	3 020 960	3 151 550	1 344 630	1 255 930
Unstable	10 797 161	8 713 849	9 649 753	12 720 214	12 957 006
Extreme Unstable	1 514 800	1 111 910	1 444 160	1 321 940	1 701 320
<b>Total</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 245 463</b>	<b>15 386 784</b>	<b>15 914 256</b>
Country groups and economic blocks:					
ACP	6 892 640	6 472 870	7 549 610	8 052 550	8 218 980
ASEAN	6 200	10 300	8 340	18 000	14 570
BRICS	8 444 381	8 347 329	9 102 113	9 827 624	9 667 306
CPE	31 100	24 200	26 400	26 830	37 250
EC	457 100	469 140	411 060	483 400	514 130
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	204 321	166 259	212 503	219 724	199 256
NAFTA	0	0	0	0	0
OECD	1 921 430	1 539 170	1 795 760	1 630 000	2 042 830
SADC	6 826 870	6 435 620	7 485 380	7 980 800	8 141 630

## Cobalt

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	16 298	15 281	14 032	12 343	12 832
Developing C.	30 835	28 890	27 463	20 949	20 744
Least Developed C.	91 299	77 968	88 077	116 366	82 882
Transition C.	8 600	8 600	8 900	8 700	8 700
<b>Total</b>	<b>147 032</b>	<b>130 739</b>	<b>138 472</b>	<b>158 358</b>	<b>125 158</b>

Annual per capita income:

High Income	18 689	18 469	16 812	14 447	14 535
Upper Middle Income	27 935	25 641	23 857	18 111	18 277
Lower Middle Income	11 733	13 528	11 930	11 200	10 735
Low Income	88 675	73 101	85 873	114 600	81 611
<b>Total</b>	<b>147 032</b>	<b>130 739</b>	<b>138 472</b>	<b>158 358</b>	<b>125 158</b>

Political stability:

Stable	7 489	7 148	0	0	0
Fair	17 174	19 338	22 088	19 409	18 032
Unstable	37 969	31 715	33 923	27 236	28 462
Extreme Unstable	84 400	72 538	82 461	111 713	78 664
<b>Total</b>	<b>147 032</b>	<b>130 739</b>	<b>138 472</b>	<b>158 358</b>	<b>125 158</b>

Country groups and economic blocks:

ACP	100 630	87 460	98 301	126 351	92 426
ASEAN	4 527	3 984	4 050	3 950	4 100
BRICS	22 826	19 846	18 450	12 811	12 727
CPE	15 163	14 941	13 707	8 400	8 200
EC	2 119	2 260	2 300	1 377	1 454
EFTA	0	0	0	0	0
G7	8 249	7 838	6 698	6 088	5 632
MERCOSUR	2 771	852	185	4	0
NAFTA	8 249	7 838	6 698	6 088	5 632
OECD	16 298	15 281	14 032	12 343	12 832
SADC	93 332	79 759	89 587	117 776	84 311

## Manganese

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	3 283 300	2 406 940	2 885 244	3 519 470	3 268 490
Developing C.	11 731 244	11 230 705	14 667 225	14 786 326	16 698 570
Least Developed C.	48 560	148 020	182 020	257 990	445 630
Transition C.	944 200	864 200	1 035 400	1 066 000	1 011 800
<b>Total</b>	<b>16 007 304</b>	<b>14 649 865</b>	<b>18 769 889</b>	<b>19 629 786</b>	<b>21 424 490</b>

Annual per capita income:

High Income	3 269 580	2 397 000	2 882 410	3 525 490	3 276 740
Upper Middle Income	10 737 204	9 858 035	12 729 779	12 207 856	13 600 020
Lower Middle Income	1 997 520	2 394 230	3 156 180	3 891 080	4 544 950
Low Income	3 000	600	1 520	5 360	2 780
<b>Total</b>	<b>16 007 304</b>	<b>14 649 865</b>	<b>18 769 889</b>	<b>19 629 786</b>	<b>21 424 490</b>

Political stability:

Stable	0	0	0	0	0
Fair	5 445 080	3 089 750	4 828 114	4 136 980	5 684 240
Unstable	9 965 344	11 027 945	13 245 995	14 494 821	14 530 840
Extreme Unstable	596 880	532 170	695 780	997 985	1 209 410
<b>Total</b>	<b>16 007 304</b>	<b>14 649 865</b>	<b>18 769 889</b>	<b>19 629 786</b>	<b>21 424 490</b>

Country groups and economic blocks:

ACP	6 650 400	6 455 890	9 094 640	10 517 280	12 020 140
ASEAN	325 740	468 190	708 050	793 160	962 215
BRICS	8 626 028	8 178 409	10 213 767	9 022 255	10 228 434
CPE	2 534 000	2 179 000	2 536 650	1 209 400	1 382 000
EC	33 000	18 440	6 234	5 150	9 290
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	1 226 458	1 198 709	1 343 967	1 280 825	1 452 034
NAFTA	217 466	215 782	218 510	209 023	232 957
OECD	3 513 596	2 625 522	3 124 820	3 753 243	3 532 057
SADC	4 201 710	4 060 650	5 551 120	5 693 160	6 484 810

## Molybdenum

	2015	2016	2017	2018	2019
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	49 906	38 984	45 465	46 448	47 541
Developing C.	227 935	212 581	230 913	215 069	218 780
Least Developed C.	0	0	0	0	0
Transition C.	9 385	11 691	9 000	8 583	10 184
<b>Total</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 100</b>	<b>276 505</b>

Annual per capita income:

High Income	102 743	94 631	108 862	107 154	102 566
Upper Middle Income	175 855	159 362	172 696	159 056	170 119
Lower Middle Income	8 258	8 823	3 340	3 330	3 290
Low Income	370	440	480	560	530
<b>Total</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 100</b>	<b>276 505</b>

Political stability:

Stable	2 505	2 783	0	0	0
Fair	103 664	96 700	111 537	110 098	105 056
Unstable	179 722	163 773	172 941	155 862	167 289
Extreme Unstable	1 335	0	900	4 140	4 160
<b>Total</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 100</b>	<b>276 505</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	138 404	115 949	120 317	100 682	106 429
CPE	138 077	115 462	120 210	101 560	107 460
EC	0	0	0	0	0
EFTA	1	1	0	0	1
G7	49 905	38 983	45 465	46 448	47 540
MERCOSUR	869	479	651	364	0
NAFTA	61 232	50 879	59 450	66 713	69 234
OECD	115 405	106 527	123 096	127 869	124 260
SADC	0	0	0	0	0

## Nickel

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	525 737	505 953	478 509	427 966	409 811
Developing C.	1 189 816	1 133 805	1 364 035	1 659 104	2 009 836
Least Developed C.	71 475	67 024	63 373	50 954	49 087
Transition C.	275 110	231 710	235 880	247 640	240 220
Total	2 062 138	1 938 492	2 141 797	2 385 664	2 708 954

Annual per capita income:

High Income	718 936	710 160	693 891	644 191	619 360
Upper Middle Income	631 658	576 443	623 182	628 323	1 657 942
Lower Middle Income	650 360	592 122	774 007	1 079 946	397 765
Low Income	61 184	59 767	50 717	33 204	33 887
Total	2 062 138	1 938 492	2 141 797	2 385 664	2 708 954

Political stability:

Stable	234 519	235 034	0	0	0
Fair	353 014	332 352	528 111	500 230	490 121
Unstable	1 465 965	1 061 260	1 598 916	1 854 124	2 199 893
Extreme Unstable	8 640	309 846	14 770	31 310	18 940
Total	2 062 138	1 938 492	2 141 797	2 385 664	2 708 954

Country groups and economic blocks:

ACP	210 244	205 786	199 176	210 158	214 789
ASEAN	579 628	528 678	731 627	1 014 316	1 373 725
BRICS	508 391	450 820	442 614	446 253	437 761
CPE	160 007	152 472	151 648	147 963	153 574
EC	38 491	43 454	56 451	64 212	56 525
EFTA	300	230	190	170	135
G7	261 719	259 134	236 402	203 562	194 400
MERCOSUR	93 009	78 626	68 803	65 254	55 744
NAFTA	261 719	259 134	236 402	203 562	194 400
OECD	534 377	515 293	493 279	441 526	414 551
SADC	134 662	125 639	99 180	94 290	95 248

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	5 385	6 099	6 981	7 700	6 800
Developing C.	80 524	80 803	83 318	99 755	127 390
Least Developed C.	980	1 034	1 033	899	647
Transition C.	628	628	648	669	659
<b>Total</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>109 023</b>	<b>135 496</b>
Annual per capita income:					
High Income	5 385	6 099	6 981	7 700	6 800
Upper Middle Income	81 123	81 327	83 844	100 243	127 899
Lower Middle Income	29	104	122	181	150
Low Income	980	1 034	1 033	899	647
<b>Total</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>109 023</b>	<b>135 496</b>
Political stability:					
Stable	5 385	6 099	0	0	0
Fair	248	0	7 241	7 945	7 000
Unstable	81 128	81 528	83 857	100 257	127 912
Extreme Unstable	756	937	882	821	584
<b>Total</b>	<b>87 517</b>	<b>88 564</b>	<b>91 980</b>	<b>109 023</b>	<b>135 496</b>
Country groups and economic blocks:					
ACP	1 009	1 138	1 155	1 080	797
ASEAN	0	0	0	0	0
BRICS	81 123	81 327	83 844	100 243	127 899
CPE	30	30	30	20	20
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	5 385	6 099	6 981	7 700	6 800
MERCOSUR	80 465	80 669	83 166	99 554	127 220
NAFTA	5 385	6 099	6 981	7 700	6 800
OECD	5 385	6 099	6 981	7 700	6 800
SADC	699	804	727	619	426

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	20	10	20	40	80
Developing C.	460	428	869	525	605
Least Developed C.	1 238	1 288	1 329	1 202	867
Transition C.	32	49	45	44	32
<b>Total</b>	<b>1 750</b>	<b>1 775</b>	<b>2 263</b>	<b>1 811</b>	<b>1 584</b>

Annual per capita income:

High Income	20	10	20	40	80
Upper Middle Income	419	411	431	321	427
Lower Middle Income	73	66	483	248	210
Low Income	1 238	1 288	1 329	1 202	867
Total	1 750	1 775	2 263	1 811	1 584

Political stability:

Stable	0	0	0	0	0
Fair	409	18	421	447	400
Unstable	439	734	485	378	486
Extreme Unstable	902	1 023	1 357	986	698
Total	1 750	1 775	2 263	1 811	1 584

Country groups and economic blocks:

ACP	1 310	1 354	1 809	1 432	1 067
ASEAN	9	8	6	27	10
BRICS	410	403	425	294	417
CPE	110	120	110	100	135
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	268	234	270	150	250
NAFTA	0	0	0	0	0
OECD	20	10	20	40	80
SADC	764	886	818	710	499

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	2 035 640	2 085 000	2 047 200	1 771 620	1 731 745
Developing C.	3 148 470	3 096 550	3 209 324	3 790 918	4 128 814
Least Developed C.	908 990	1 050 990	1 259 200	1 183 040	1 246 810
Transition C.	477 100	425 280	498 200	586 950	627 150
Total	6 570 200	6 657 820	7 013 924	7 332 528	7 734 519
Annual per capita income:					
High Income	2 147 890	2 176 800	2 169 870	1 888 870	1 894 535
Upper Middle Income	2 310 780	2 283 220	2 493 404	3 122 468	3 439 654
Lower Middle Income	1 202 540	1 146 810	1 091 450	1 426 090	1 434 550
Low Income	908 990	1 050 990	1 259 200	895 100	965 780
Total	6 570 200	6 657 820	7 013 924	7 332 528	7 734 519



Political stability:

Stable	595 000	700 000	0	0	0
Fair	1 703 490	1 659 010	2 360 530	2 023 720	2 323 465
Unstable	3 891 480	3 614 780	4 216 724	4 753 683	4 793 094
Extreme Unstable	380 230	684 030	436 670	555 125	617 960
<b>Total</b>	<b>6 570 200</b>	<b>6 657 820</b>	<b>7 013 924</b>	<b>7 332 528</b>	<b>7 734 519</b>

Country groups and economic blocks:

ACP	2 278 740	2 340 470	2 694 760	2 523 190	2 479 470
ASEAN	127 190	115 610	125 664	134 873	147 964
BRICS	2 611 680	2 543 940	2 550 700	3 129 800	3 521 550
CPE	1 190 800	1 305 620	1 359 160	2 054 250	2 447 870
EC	0	0	0	0	0
EFTA	277 340	260 000	238 200	176 370	211 280
G7	705 000	755 000	816 000	720 000	740 000
MERCOSUR	45 330	37 660	48 000	38 000	81 650
NAFTA	705 000	755 000	816 000	720 000	740 000
OECD	2 152 640	2 181 550	2 176 240	1 895 045	1 900 665
SADC	1 578 300	1 606 300	1 878 400	1 749 700	1 727 700

## Tungsten (W-Content)

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	4 488	3 042	3 299	3 398	1 751
Developing C.	79 284	79 498	79 258	76 579	80 115
Least Developed C.	1 412	1 387	1 571	1 801	1 754
Transition C.	2 832	2 787	2 247	2 331	2 533
<b>Total</b>	<b>88 016</b>	<b>86 714</b>	<b>86 375</b>	<b>84 109</b>	<b>86 153</b>
Annual per capita income:					
High Income	4 496	3 056	3 299	3 398	1 751
Upper Middle Income	75 418	75 215	74 398	70 644	75 116
Lower Middle Income	6 868	7 163	7 124	7 046	6 532
Low Income	1 234	1 280	1 554	3 021	2 754
<b>Total</b>	<b>88 016</b>	<b>86 714</b>	<b>86 375</b>	<b>84 109</b>	<b>86 153</b>
Political stability:					
Stable	1 815	0	0	0	0
Fair	8 681	8 852	9 868	9 864	8 057
Unstable	77 427	77 698	76 221	73 721	77 591
Extreme Unstable	93	164	286	524	505
<b>Total</b>	<b>88 016</b>	<b>86 714</b>	<b>86 375</b>	<b>84 109</b>	<b>86 153</b>

Country groups and economic blocks:

ACP	1 189	1 238	1 256	1 693	1 676
ASEAN	4 344	5 240	5 514	5 136	4 983
BRICS	75 274	75 030	74 355	70 534	75 064
CPE	77 212	77 846	77 774	74 721	78 516
EC	2 325	2 934	3 294	3 398	1 751
EFTA	0	0	0	0	0
G7	1 970	732	1 086	890	0
MERCOSUR	432	323	411	300	431
NAFTA	1 815	0	0	45	15
OECD	4 496	3 056	3 299	3 443	1 766
SADC	55	92	133	176	247

## Vanadium (V-Content)

	2015	2016	2017	2018	2019
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	0	0	0	0	460
Developing C.	65 567	68 546	63 256	67 895	71 459
Least Developed C.	0	0	0	0	0
Transition C.	17 196	16 886	18 636	17 052	18 380
<b>Total</b>	<b>82 763</b>	<b>85 432</b>	<b>81 892</b>	<b>84 947</b>	<b>90 299</b>

Annual per capita income:

High Income	0	0	0	0	460
Upper Middle Income	81 639	84 307	81 892	84 505	89 389
Lower Middle Income	1 124	1 125	0	442	450
Low Income	0	0	0	0	0
<b>Total</b>	<b>82 763</b>	<b>85 432</b>	<b>81 892</b>	<b>84 947</b>	<b>90 299</b>

Political stability:

Stable	0	0	0	0	0
Fair	0	0	0	0	460
Unstable	82 763	85 432	81 892	84 947	89 839
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>82 763</b>	<b>85 432</b>	<b>81 892</b>	<b>84 947</b>	<b>90 299</b>

Country groups and economic blocks:

ACP	17 455	15 877	7 958	7 691	7 964
ASEAN	0	0	0	0	0
BRICS	81 763	85 432	81 892	84 947	89 839
CPE	42 000	45 000	48 500	53 200	56 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	460
MERCOSUR	4 988	6 544	6 798	6 562	7 045
NAFTA	0	0	0	0	460
OECD	0	0	0	0	460
SADC	17 455	15 877	7 958	7 691	7 964

## 6.3.2 Non-Ferrous Metals

### Aluminium

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	10 614 281	10 196 793	10 047 511	9 966 544	10 011 553
Developing C.	42 583 877	43 751 490	45 940 308	49 716 830	48 139 816
Least Developed C.	558 390	571 125	577 495	571 125	564 756
Transition C.	4 101 175	4 108 221	4 133 562	4 202 261	4 139 637
<b>Total</b>	<b>57 857 723</b>	<b>58 627 629</b>	<b>60 698 876</b>	<b>64 456 760</b>	<b>62 855 762</b>
Annual per capita income:					
High Income	15 526 754	15 236 101	15 566 406	15 262 819	15 940 473
Upper Middle Income	38 609 285	39 134 301	40 428 920	44 235 662	42 227 794
Lower Middle Income	3 163 294	3 686 102	4 022 908	4 291 354	4 021 939
Low Income	558 390	571 125	680 642	666 925	665 556
<b>Total</b>	<b>57 857 723</b>	<b>58 627 629</b>	<b>60 698 876</b>	<b>64 456 760</b>	<b>62 855 762</b>
Political stability:					
Stable	3 940 034	4 247 524	1 096 728	1 072 156	1 034 097
Fair	10 793 413	10 135 782	13 727 536	13 769 926	13 416 073
Unstable	42 788 011	43 868 516	45 365 089	49 105 987	48 007 626
Extreme Unstable	336 265	375 807	509 523	508 691	397 966
<b>Total</b>	<b>57 857 723</b>	<b>58 627 629</b>	<b>60 698 876</b>	<b>64 456 760</b>	<b>62 855 762</b>
Country groups and economic blocks:					
ACP	1 375 463	1 389 824	1 402 593	1 393 892	1 378 606
ASEAN	697 149	865 483	975 192	979 306	993 457
BRICS	38 869 149	39 726 729	41 790 918	45 531 181	43 682 889
CPE	31 518 000	31 775 400	33 289 600	36 831 000	35 043 600
EC	2 213 979	2 249 935	2 257 220	2 204 107	2 090 562
EFTA	1 952 492	1 947 080	2 012 988	2 026 478	2 020 116
G7	5 470 955	5 044 758	4 976 238	4 784 341	4 928 987
MERCOSUR	1 323 612	1 366 657	1 368 939	1 163 300	1 098 634
NAFTA	4 466 555	4 027 318	3 953 008	3 821 041	3 979 803
OECD	10 389 190	10 003 093	9 840 960	9 757 025	9 809 327
SADC	1 253 390	1 272 125	1 293 495	1 285 125	1 281 756

## Antimony

	2015	2016	2017	2018	2019
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	4 214	4 285	3 132	2 178	2 037
Developing C.	118 439	112 645	106 769	79 306	67 880
Least Developed C.	4 166	2 242	4 820	2 330	4 570
Transition C.	23 059	36 043	34 220	60 548	50 991
<b>Total</b>	<b>149 878</b>	<b>155 215</b>	<b>148 941</b>	<b>144 362</b>	<b>125 478</b>
Annual per capita income:					
High Income	4 214	4 285	3 132	2 178	2 037
Upper Middle Income	122 647	116 893	110 113	106 889	86 484
Lower Middle Income	23 017	34 037	9 326	6 405	7 657
Low Income	0	0	26 370	28 890	29 300
<b>Total</b>	<b>149 878</b>	<b>155 215</b>	<b>148 941</b>	<b>144 362</b>	<b>125 478</b>
Political stability:					
Stable	1	0	0	0	0
Fair	5 599	5 330	4 032	2 753	2 412
Unstable	142 214	147 114	140 054	134 374	114 421
Extreme Unstable	2 064	2 771	4 855	7 235	8 645
<b>Total</b>	<b>149 878</b>	<b>155 215</b>	<b>148 941</b>	<b>144 362</b>	<b>125 478</b>
Country groups and economic blocks:					
ACP	302	350	0	0	0
ASEAN	4 386	2 504	5 050	2 575	4 875
BRICS	119 122	110 590	103 803	101 224	81 900
CPE	111 620	103 850	97 913	70 641	60 534
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1	0	1	5	5
MERCOSUR	0	0	0	0	0
NAFTA	91	166	241	305	294
OECD	6 254	7 201	8 212	6 048	6 141
SADC	302	350	0	0	0

## Arsenic

	2015	2016	2017	2018	2019
	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.	34 715	56 372	55 402	50 192	54 096
Least Developed C.	0	0	0	0	0
Transition C.	1 500	1 500	1 500	1 500	1 500
<b>Total</b>	<b>37 260</b>	<b>58 917</b>	<b>57 947</b>	<b>52 737</b>	<b>56 641</b>

Annual per capita income:

High Income	1 045	1 045	1 045	1 045	1 045
Upper Middle Income	28 610	51 712	50 003	45 876	50 415
Lower Middle Income	7 605	6 160	6 899	5 816	5 181
Low Income	0	0	0	0	0
<b>Total</b>	<b>37 260</b>	<b>58 917</b>	<b>57 947</b>	<b>52 737</b>	<b>56 641</b>

Political stability:

Stable	0	0	0	0	0
Fair	3 045	3 005	1 745	1 045	1 045
Unstable	34 215	55 912	56 202	51 692	55 596
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>37 260</b>	<b>58 917</b>	<b>57 947</b>	<b>52 737</b>	<b>56 641</b>

Country groups and economic blocks:

ACP	2 000	1 960	700	0	0
ASEAN	0	0	0	0	0
BRICS	26 500	26 500	26 500	25 500	25 500
CPE	25 000	25 000	25 000	24 000	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	2 000	1 960	700	0	0

## Bauxite (crude ore)

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	83 314 818	85 734 238	91 783 354	97 992 628	107 162 152
Developing C.	177 571 304	157 192 963	152 644 372	170 000 450	170 382 311
Least Developed C.	22 309 635	34 028 487	55 016 374	63 168 287	73 299 243
Transition C.	11 181 378	12 302 168	12 359 331	14 389 608	12 577 468
<b>Total</b>	<b>294 377 135</b>	<b>289 257 856</b>	<b>311 803 431</b>	<b>345 550 973</b>	<b>363 421 174</b>

Annual per capita income:

High Income	86 336 818	90 492 458	95 908 354	102 898 628	112 289 152
Upper Middle Income	154 659 232	136 689 902	132 241 876	140 044 398	151 098 503
Lower Middle Income	31 349 850	28 281 509	30 160 727	41 085 860	27 968 306
Low Income	22 031 235	33 793 987	53 492 474	61 522 087	72 065 213
<b>Total</b>	<b>294 377 135</b>	<b>289 257 856</b>	<b>311 803 431</b>	<b>345 550 973</b>	<b>363 421 174</b>

Political stability:

Stable	0	0	0	0	0
Fair	124 538 843	106 431 196	109 461 338	114 382 565	123 910 088
Unstable	168 763 603	181 780 480	200 305 574	229 386 398	236 282 669
Extreme Unstable	1 074 689	1 046 180	2 036 519	1 782 010	3 228 417
Total	294 377 135	289 257 856	311 803 431	345 550 973	363 421 174

Country groups and economic blocks:

ACP	38 241 123	45 256 752	66 315 731	76 221 830	85 357 610
ASEAN	29 808 367	8 800 822	5 128 380	15 183 235	21 193 301
BRICS	131 629 389	136 242 387	135 093 206	142 123 619	135 402 693
CPE	62 224 100	67 763 800	70 955 000	82 569 700	78 700 000
EC	1 921 857	1 944 190	2 010 665	1 645 335	1 463 465
EFTA	0	0	0	0	0
G7	553 700	342 900	422 100	469 700	224 900
MERCOSUR	38 048 810	39 584 200	38 314 100	32 469 000	31 987 900
NAFTA	483 700	368 900	352 100	399 700	154 900
OECD	84 352 921	86 809 614	93 490 283	98 658 990	109 403 290
SADC	5 189	1 524	3 194	9 919	8 024

## Beryllium (concentrates)

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	5 100	3 870	3 760	4 170	4 050
Developing C.	1 356	1 375	1 325	1 355	1 845
Least Developed C.	482	356	227	593	57
Transition C.	0	0	0	0	0
Total	6 938	5 601	5 312	6 118	5 952
Annual per capita income:					
High Income	5 100	3 870	3 760	4 170	4 050
Upper Middle Income	1 300	1 375	1 325	1 320	1 820
Lower Middle Income	63	5	4	42	32
Low Income	475	351	223	586	50
Total	6 938	5 601	5 312	6 118	5 952
Political stability:					
Stable	0	0	0	0	0
Fair	5 130	3 875	3 794	4 207	4 070
Unstable	1 752	1 726	1 518	1 876	1 857
Extreme Unstable	56	0	0	35	25
Total	6 938	5 601	5 312	6 118	5 952

Country groups and economic blocks:

ACP	538	356	227	628	82
ASEAN	0	0	0	0	0
BRICS	1 300	1 375	1 325	1 320	1 820
CPE	1 200	1 250	1 250	1 250	1 750
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	5 100	3 870	3 760	4 170	4 050
MERCOSUR	100	125	75	70	70
NAFTA	5 100	3 870	3 760	4 170	4 050
OECD	5 100	3 870	3 760	4 170	4 050
SADC	459	326	197	563	37

## Bismuth

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	634	431	529	576	545
Developing C.	10 871	9 897	9 847	10 136	8 281
Least Developed C.	0	0	0	0	0
Transition C.	184	291	231	189	232
Total	11 689	10 619	10 607	10 901	9 058

Annual per capita income:

High Income	634	431	529	576	545
Upper Middle Income	8 031	8 117	7 667	7 647	7 594
Lower Middle Income	3 024	2 071	2 411	2 678	919
Low Income	0	0	0	0	0
Total	11 689	10 619	10 607	10 901	9 058

Political stability:

Stable	2	3	0	0	0
Fair	3 632	2 701	3 132	3 215	1 462
Unstable	8 055	7 915	7 475	7 686	7 596
Extreme Unstable	0	0	0	0	0
Total	11 689	10 619	10 607	10 901	9 058

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	3 000	2 013	2 403	2 639	917
BRICS	7 290	7 130	6 830	7 030	7 030
CPE	10 250	9 113	9 203	9 639	7 917
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	634	431	529	576	545
MERCOSUR	0	0	0	0	0
NAFTA	603	542	517	318	296
OECD	1 235	970	1 042	889	836
SADC	0	0	0	0	0

## Cadmium

	2015	2016	2017	2018	2019
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	5 645	6 862	6 752	6 255	6 478
Developing C.	14 329	15 407	15 833	16 196	14 769
Least Developed C.	0	0	0	0	0
Transition C.	3 352	4 072	4 172	2 288	2 450
<b>Total</b>	<b>23 326</b>	<b>26 341</b>	<b>26 757</b>	<b>24 739</b>	<b>23 697</b>
Annual per capita income:					
High Income	8 921	11 095	11 475	11 042	10 113
Upper Middle Income	13 498	14 721	14 729	13 260	13 184
Lower Middle Income	707	325	353	237	250
Low Income	200	200	200	200	150
<b>Total</b>	<b>23 326</b>	<b>26 341</b>	<b>26 757</b>	<b>24 739</b>	<b>23 697</b>
Political stability:					
Stable	1 159	2 305	0	0	0
Fair	8 213	11 925	14 498	11 429	10 428
Unstable	13 954	12 111	12 259	13 310	13 269
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>23 326</b>	<b>26 341</b>	<b>26 757</b>	<b>24 739</b>	<b>23 697</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	9 548	9 557	9 814	9 951	9 900
CPE	8 362	8 422	8 611	8 650	8 600
EC	1 717	1 834	1 992	1 738	2 055
EFTA	310	335	416	380	370
G7	3 988	5 345	5 074	4 657	4 673
MERCOSUR	307	291	276	374	495
NAFTA	2 942	3 949	3 344	3 464	3 005
OECD	10 204	12 339	12 521	12 349	11 065
SADC	0	0	0	0	0

## Copper

	2015	2016	2017	2018	2019
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	3 968 716	3 993 042	3 663 356	3 592 265	3 622 381
Developing C.	11 880 943	12 944 832	12 604 659	12 849 568	12 643 343
Least Developed C.	2 111 475	2 135 564	2 226 692	2 486 601	2 671 016
Transition C.	1 392 717	1 440 789	1 583 453	1 779 175	1 736 618
<b>Total</b>	<b>19 353 851</b>	<b>20 514 227</b>	<b>20 078 160</b>	<b>20 707 609</b>	<b>20 673 358</b>



Annual per capita income:

High Income	9 641 496	9 453 339	9 124 866	9 361 660	9 511 601
Upper Middle Income	6 261 598	7 305 731	7 341 224	7 449 194	7 726 259
Lower Middle Income	2 310 132	2 659 669	2 463 833	2 606 906	1 947 866
Low Income	1 140 625	1 095 488	1 148 237	1 289 849	1 487 632
<b>Total</b>	<b>19 353 851</b>	<b>20 514 227</b>	<b>20 078 160</b>	<b>20 707 609</b>	<b>20 673 358</b>

Political stability:

Stable	714 647	695 508	0	0	0
Fair	10 413 383	10 818 063	11 100 957	10 862 248	10 046 813
Unstable	7 065 758	7 771 884	7 787 313	8 011 074	8 551 602
Extreme Unstable	1 160 063	1 228 772	1 189 890	1 834 287	2 074 943
<b>Total</b>	<b>19 353 851</b>	<b>20 514 227</b>	<b>20 078 160</b>	<b>20 707 609</b>	<b>20 673 358</b>

Country groups and economic blocks:

ACP	2 048 207	2 067 111	2 168 579	2 347 842	2 511 292
ASEAN	932 721	1 095 977	991 469	1 080 623	812 727
BRICS	2 880 320	2 987 148	2 949 124	2 952 822	2 941 169
CPE	2 081 670	2 267 560	2 057 420	1 968 530	2 007 180
EC	878 188	919 979	957 041	913 358	867 526
EFTA	0	0	0	0	0
G7	2 094 689	2 125 549	1 857 257	1 768 062	1 820 840
MERCOSUR	412 705	420 823	417 845	403 197	363 268
NAFTA	2 689 098	2 919 490	2 599 440	2 464 591	2 534 504
OECD	10 320 836	10 325 027	9 874 566	10 085 132	10 072 662
SADC	1 889 097	1 919 246	2 000 843	2 179 522	2 341 425

## Gallium

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	16	7	3	3	3
Developing C.	256	174	293	308	358
Least Developed C.	0	0	0	0	0
Transition C.	13	13	14	12	13
<b>Total</b>	<b>285</b>	<b>194</b>	<b>310</b>	<b>323</b>	<b>374</b>

Annual per capita income:

High Income	18	10	6	6	5
Upper Middle Income	258	175	295	311	364
Lower Middle Income	9	9	9	6	5
Low Income	0	0	0	0	0
<b>Total</b>	<b>285</b>	<b>194</b>	<b>310</b>	<b>323</b>	<b>374</b>

Political stability:

Stable	0	0	0	0	0
Fair	18	10	6	6	5
Unstable	258	175	295	311	364
Extreme Unstable	9	9	9	6	5
<b>Total</b>	<b>285</b>	<b>194</b>	<b>310</b>	<b>323</b>	<b>374</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	258	175	295	311	364
CPE	254	171	290	305	356
EC	11	4	0	0	0
EFTA	0	0	0	0	0
G7	16	7	3	3	3
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	18	10	6	6	5
SADC	0	0	0	0	0

## Germanium

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
<b>Development status:</b>					
Developed C.	18	5	4	4	4
Developing C.	114	110	87	95	85
Least Developed C.	0	0	0	0	0
Transition C.	7	7	7	7	6
<b>Total</b>	<b>139</b>	<b>122</b>	<b>98</b>	<b>106</b>	<b>95</b>
<b>Annual per capita income:</b>					
High Income	18	5	4	4	4
Upper Middle Income	120	116	93	101	90
Lower Middle Income	1	1	1	1	1
Low Income	0	0	0	0	0
<b>Total</b>	<b>139</b>	<b>122</b>	<b>98</b>	<b>106</b>	<b>95</b>
<b>Political stability:</b>					
Stable	0	0	0	0	0
Fair	18	5	4	4	4
Unstable	120	116	93	101	90
Extreme Unstable	1	1	1	1	1
<b>Total</b>	<b>139</b>	<b>122</b>	<b>98</b>	<b>106</b>	<b>95</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	120	116	93	101	90
CPE	114	110	87	95	85
EC	13	0	0	0	0
EFTA	0	0	0	0	0
G7	5	5	4	4	4
MERCOSUR	0	0	0	0	0
NAFTA	3	3	2	2	2
OECD	18	5	4	4	4
SADC	0	0	0	0	0

## Indium

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	211	171	197	191	170
Developing C.	596	577	580	635	720
Least Developed C.	0	0	0	0	0
Transition C.	40	5	5	4	6
Total	847	753	782	830	896

Annual per capita income:

High Income	406	381	412	426	395
Upper Middle Income	441	372	370	404	501
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	847	753	782	830	896

Political stability:

Stable	70	71	0	0	0
Fair	336	310	412	426	395
Unstable	441	372	370	404	501
Extreme Unstable	0	0	0	0	0
Total	847	753	782	830	896

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	432	367	365	399	496
CPE	387	357	355	395	490
EC	71	30	60	63	39
EFTA	0	0	0	0	0
G7	191	151	177	171	150
MERCOSUR	5	5	5	0	0
NAFTA	70	71	67	58	61
OECD	406	381	412	426	395
SADC	0	0	0	0	0

## Lead

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	1 220 496	981 229	898 500	946 667	1 037 362
Developing C.	3 443 246	3 323 734	3 271 009	3 236 607	3 473 755
Least Developed C.	15 443	22 211	15 550	25 260	35 340
Transition C.	305 590	394 430	447 620	421 170	421 540
<b>Total</b>	<b>4 984 775</b>	<b>4 721 604</b>	<b>4 632 679</b>	<b>4 629 704</b>	<b>4 967 997</b>
Annual per capita income:					
High Income	1 207 825	963 019	920 377	924 319	1 013 379
Upper Middle Income	3 385 875	3 323 752	3 219 320	3 167 752	3 415 028
Lower Middle Income	357 122	397 932	400 292	449 643	449 020
Low Income	33 953	36 901	92 690	87 990	90 570
<b>Total</b>	<b>4 984 775</b>	<b>4 721 604</b>	<b>4 632 679</b>	<b>4 629 704</b>	<b>4 967 997</b>
Political stability:					
Stable	3 809	12 653	0	0	0
Fair	1 270 116	1 088 699	1 076 827	1 050 710	1 111 349
Unstable	3 618 161	3 540 155	3 453 552	3 405 754	3 645 938
Extreme Unstable	92 689	80 097	102 300	173 240	210 710
<b>Total</b>	<b>4 984 775</b>	<b>4 721 604</b>	<b>4 632 679</b>	<b>4 629 704</b>	<b>4 967 997</b>
Country groups and economic blocks:					
ACP	61 926	60 745	79 715	82 689	108 806
ASEAN	21 160	28 190	27 685	51 140	58 660
BRICS	2 682 724	2 631 019	2 512 529	2 488 565	2 556 511
CPE	2 373 400	2 269 820	2 124 990	2 119 200	2 184 000
EC	193 199	181 238	172 833	202 222	231 556
EFTA	0	0	0	0	0
G7	373 809	358 753	330 577	297 974	296 808
MERCOSUR	39 275	37 031	47 094	35 537	35 483
NAFTA	637 581	605 408	573 499	528 743	668 714
OECD	1 547 497	1 274 074	1 198 254	1 231 178	1 456 445
SADC	44 926	46 245	53 955	39 409	49 256

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	26 164	31 747	100 350	126 084	106 310
Developing C.	36 423	51 920	61 983	72 380	83 290
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
<b>Total</b>	<b>62 587</b>	<b>83 667</b>	<b>162 333</b>	<b>198 464</b>	<b>189 600</b>

Annual per capita income:

High Income	48 664	62 987	145 230	164 934	154 080
Upper Middle Income	12 518	18 640	15 233	30 310	32 660
Lower Middle Income	0	10	20	3 220	2 860
Low Income	1 405	2 030	1 850	0	0
<b>Total</b>	<b>62 587</b>	<b>83 667</b>	<b>162 333</b>	<b>198 464</b>	<b>189 600</b>

Political stability:

Stable	0	0	0	0	0
Fair	56 524	75 187	145 230	179 344	154 080
Unstable	6 063	8 480	17 103	19 070	35 470
Extreme Unstable	0	0	0	50	50
<b>Total</b>	<b>62 587</b>	<b>83 667</b>	<b>162 333</b>	<b>198 464</b>	<b>189 600</b>

Country groups and economic blocks:

ACP	1 405	2 030	1 850	3 810	2 700
ASEAN	0	0	0	0	0
BRICS	4 658	6 440	15 233	15 900	18 990
CPE	4 350	6 000	14 700	15 300	16 600
EC	204	307	604	914	710
EFTA	0	0	0	0	0
G7	1 820	1 800	1 486	10 250	2 600
MERCOSUR	8 168	12 640	12 893	14 410	16 060
NAFTA	1 820	1 800	1 486	10 250	2 600
OECD	48 664	62 987	132 870	164 934	154 080
SADC	1 405	2 030	1 850	3 760	2 650

## Mercury

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	15	15	15	15	15
Developing C.	3 214	3 859	2 221	2 591	2 287
Least Developed C.	0	0	0	0	0
Transition C.	166	220	160	258	150
<b>Total</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 864</b>	<b>2 452</b>

Annual per capita income:

High Income	29	17	74	18	15
Upper Middle Income	3 230	3 887	2 202	2 633	2 332
Lower Middle Income	136	190	20	93	25
Low Income	0	0	100	120	80
<b>Total</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 864</b>	<b>2 452</b>

Political stability:

Stable	0	0	0	0	0
Fair	88	152	74	68	15
Unstable	3 307	3 942	2 322	2 796	2 437
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 864</b>	<b>2 452</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	2 850	3 483	1 999	2 353	2 282
CPE	2 800	3 433	1 949	2 303	2 232
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	15	15	15	15	15
MERCOSUR	59	135	54	50	50
NAFTA	322	282	215	245	15
OECD	336	284	220	248	15
SADC	0	0	0	0	0

## Rare Earth Minerals (REO-Content)

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	14 594	13 872	17 264	32 556	45 613
Developing C.	107 561	112 041	109 726	125 401	136 914
Least Developed C.	230	2 730	5 031	21 031	17 168
Transition C.	2 312	3 063	2 500	2 596	2 620
<b>Total</b>	<b>124 697</b>	<b>131 706</b>	<b>134 521</b>	<b>181 584</b>	<b>202 315</b>
Annual per capita income:					
High Income	14 594	13 872	17 264	32 556	45 613
Upper Middle Income	108 917	112 839	109 502	123 782	135 334
Lower Middle Income	1 186	4 995	7 724	24 615	21 300
Low Income	0	0	31	631	68
<b>Total</b>	<b>124 697</b>	<b>131 706</b>	<b>134 521</b>	<b>181 584</b>	<b>202 315</b>
Political stability:					
Stable	0	0	0	0	0
Fair	15 159	15 748	17 566	32 642	45 727
Unstable	109 538	115 958	116 924	127 911	139 420
Extreme Unstable	0	0	31	21 031	17 168
<b>Total</b>	<b>124 697</b>	<b>131 706</b>	<b>134 521</b>	<b>181 584</b>	<b>202 315</b>

Country groups and economic blocks:

ACP	0	0	31	631	68
ASEAN	795	4 606	5 302	20 486	17 214
BRICS	109 308	113 228	111 924	127 911	139 420
CPE	105 000	105 000	105 000	120 000	132 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	3 678	0	0	14 000	28 000
MERCOSUR	1 040	2 900	1 700	1 100	600
NAFTA	3 678	0	0	14 000	28 000
OECD	14 594	13 872	17 264	32 556	45 613
SADC	0	0	0	0	0

## Rhenium

	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg
Development status:					
Developed C.	14 246	14 883	15 764	14 510	14 130
Developing C.	24 935	24 942	22 951	28 552	26 503
Least Developed C.	0	0	0	0	0
Transition C.	5 910	9 265	5 005	3 505	3 250
Total	45 091	49 090	43 720	46 567	43 883
Annual per capita income:					
High Income	36 781	37 425	36 215	40 562	38 133
Upper Middle Income	7 206	10 600	6 975	5 505	4 950
Lower Middle Income	1 104	1 065	530	500	800
Low Income	0	0	0	0	0
Total	45 091	49 090	43 720	46 567	43 883
Political stability:					
Stable	0	0	0	0	0
Fair	36 781	44 125	38 815	40 562	38 133
Unstable	8 310	4 965	4 905	6 005	5 750
Extreme Unstable	0	0	0	0	0
Total	45 091	49 090	43 720	46 567	43 883

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	3 900	3 900	4 000	3 500	3 500
CPE	2 400	2 400	2 500	2 500	2 500
EC	6 346	6 443	7 564	6 290	5 770
EFTA	0	0	0	0	0
G7	7 900	8 440	8 200	8 220	8 360
MERCOSUR	0	0	0	0	0
NAFTA	7 900	8 440	8 200	8 220	8 360
OECD	36 781	37 425	36 215	40 562	38 133
SADC	0	0	0	0	0

## Selenium

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	2 089	2 195	1 744	1 720	1 668
Developing C.	955	1 045	999	1 209	1 554
Least Developed C.	0	0	0	0	0
Transition C.	231	239	287	251	253
<b>Total</b>	<b>3 275</b>	<b>3 479</b>	<b>3 030</b>	<b>3 180</b>	<b>3 475</b>
Annual per capita income:					
High Income	2 089	2 195	1 744	1 720	1 668
Upper Middle Income	1 078	1 166	1 144	1 315	1 660
Lower Middle Income	108	118	142	145	147
Low Income	0	0	0	0	0
<b>Total</b>	<b>3 275</b>	<b>3 479</b>	<b>3 030</b>	<b>3 180</b>	<b>3 475</b>
Political stability:					
Stable	156	175	0	0	0
Fair	1 950	2 051	1 811	1 748	1 668
Unstable	1 169	1 163	1 219	1 432	1 807
Extreme Unstable	0	90	0	0	0
<b>Total</b>	<b>3 275</b>	<b>3 479</b>	<b>3 030</b>	<b>3 180</b>	<b>3 475</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	70	90	100	100	100
BRICS	926	986	931	1 132	1 460
CPE	729	772	720	930	1 250
EC	1 070	1 146	764	715	711
EFTA	0	0	0	0	0
G7	1 679	1 749	1 280	1 305	1 257
MERCOSUR	0	0	0	0	0
NAFTA	345	418	300	344	344
OECD	2 188	2 316	1 856	1 827	1 795
SADC	0	0	0	0	0

## Tellurium

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	134	144	96	132	184
Developing C.	277	279	470	480	380
Least Developed C.	0	0	0	0	0
Transition C.	38	43	47	37	40
<b>Total</b>	<b>449</b>	<b>466</b>	<b>613</b>	<b>649</b>	<b>604</b>



Annual per capita income:

High Income	130	140	91	128	181
Upper Middle Income	316	323	519	519	421
Lower Middle Income	3	3	3	2	2
Low Income	0	0	0	0	0
Total	449	466	613	649	604

Political stability:

Stable	10	18	0	0	0
Fair	124	126	96	132	184
Unstable	315	322	517	517	420
Extreme Unstable	0	0	0	0	0
Total	449	466	613	649	604

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	312	319	514	515	418
CPE	277	279	470	480	380
EC	37	43	40	49	44
EFTA	0	0	0	0	0
G7	97	101	56	83	140
MERCOSUR	0	0	0	0	0
NAFTA	60	68	18	25	90
OECD	130	140	91	128	181
SADC	0	0	0	0	0

## Tin

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	7 216	6 840	7 762	7 283	7 993
Developing C.	251 118	218 080	224 530	240 598	230 771
Least Developed C.	66 122	71 685	82 353	67 466	53 281
Transition C.	578	627	1 011	1 531	2 471
Total	325 034	297 232	315 656	316 878	294 516

Annual per capita income:

High Income	7 216	6 840	7 762	7 283	7 993
Upper Middle Income	154 503	130 425	115 842	128 708	203 085
Lower Middle Income	155 654	150 687	177 974	168 351	69 605
Low Income	7 661	9 280	14 078	12 536	13 833
Total	325 034	297 232	315 656	316 878	294 516

Political stability:

Stable	0	0	0	0	0
Fair	19 046	16 496	21 956	20 481	20 877
Unstable	299 068	270 739	274 926	224 975	216 706
Extreme Unstable	6 920	9 997	18 774	71 422	56 933
<b>Total</b>	<b>325 034</b>	<b>297 232</b>	<b>315 656</b>	<b>316 878</b>	<b>294 516</b>

Country groups and economic blocks:

ACP	9 959	12 723	22 338	20 386	20 758
ASEAN	137 374	133 966	156 455	147 124	125 508
BRICS	130 798	107 429	92 905	106 208	103 190
CPE	114 640	96 103	79 770	92 565	91 891
EC	58	205	360	412	255
EFTA	0	0	0	0	0
G7	16	144	255	220	0
MERCOSUR	20 010	15 183	17 081	17 591	14 867
NAFTA	0	0	0	0	0
OECD	7 216	6 840	7 762	7 283	7 993
SADC	4 701	6 607	10 459	8 956	11 015

## Zinc

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
<b>Development status:</b>					
Developed C.	3 446 644	2 710 490	2 651 577	3 066 990	3 206 341
Developing C.	9 088 621	8 764 702	8 662 673	8 559 757	8 997 521
Least Developed C.	86 195	141 687	212 417	240 529	244 477
Transition C.	724 501	757 720	787 020	804 846	726 502
<b>Total</b>	<b>13 345 961</b>	<b>12 374 599</b>	<b>12 313 687</b>	<b>12 672 122</b>	<b>13 174 841</b>
<b>Annual per capita income:</b>					
High Income	3 496 515	2 739 560	2 709 064	3 103 840	3 226 111
Upper Middle Income	8 237 026	7 888 227	7 718 813	7 692 891	8 098 183
Lower Middle Income	1 486 075	1 548 375	1 557 603	1 535 852	1 504 440
Low Income	126 345	198 437	328 207	339 539	346 107
<b>Total</b>	<b>13 345 961</b>	<b>12 374 599</b>	<b>12 313 687</b>	<b>12 672 122</b>	<b>13 174 841</b>
<b>Political stability:</b>					
Stable	289 584	321 272	0	0	0
Fair	3 431 355	2 981 830	3 208 472	3 365 638	3 469 378
Unstable	9 424 547	8 919 110	8 895 388	8 911 197	9 272 801
Extreme Unstable	200 475	152 387	209 827	395 287	432 662
<b>Total</b>	<b>13 345 961</b>	<b>12 374 599</b>	<b>12 313 687</b>	<b>12 672 122</b>	<b>13 174 841</b>

Country groups and economic blocks:

ACP	252 915	311 158	395 185	445 316	570 831
ASEAN	77 320	62 920	40 530	47 390	48 950
BRICS	5 888 506	5 821 472	5 514 926	5 371 778	5 640 361
CPE	4 852 800	4 761 100	4 392 250	4 288 200	4 491 080
EC	722 356	699 592	678 837	791 245	793 020
EFTA	0	0	0	0	0
G7	1 114 284	1 126 072	1 120 576	1 128 964	1 076 000
MERCOSUR	187 424	180 989	179 740	189 299	178 271
NAFTA	1 901 058	1 792 968	1 792 020	1 791 319	1 935 194
OECD	4 437 869	3 520 926	3 491 229	3 923 595	4 198 975
SADC	165 390	171 752	175 035	147 486	251 394

### 6.3.3 Precious Metals

#### Gold

	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg
Development status:					
Developed C.	702 716	727 469	755 823	783 418	752 254
Developing C.	1 645 116	1 723 198	1 698 263	1 706 948	1 649 620
Least Developed C.	319 680	343 236	393 132	375 141	339 504
Transition C.	452 827	464 069	487 374	511 397	550 893
Total	3 120 339	3 257 972	3 334 592	3 376 904	3 292 271
Annual per capita income:					
High Income	742 186	772 275	855 383	823 302	797 716
Upper Middle Income	1 528 524	1 563 741	1 485 815	1 527 300	1 625 548
Lower Middle Income	603 954	658 920	686 644	760 163	597 899
Low Income	245 675	263 036	306 750	266 139	271 108
Total	3 120 339	3 257 972	3 334 592	3 376 904	3 292 271
Political stability:					
Stable	175 191	173 789	10 288	10 045	8 217
Fair	724 089	826 433	1 185 253	976 641	1 039 736
Unstable	2 001 887	2 006 762	1 888 037	2 133 791	2 015 247
Extreme Unstable	219 172	250 988	251 014	256 427	229 071
Total	3 120 339	3 257 972	3 334 592	3 376 904	3 292 271

Country groups and economic blocks:

ACP	726 411	806 122	880 294	859 006	809 585
ASEAN	130 097	129 479	134 548	165 609	138 694
BRICS	934 207	945 029	915 100	884 975	882 177
CPE	481 421	482 520	456 548	432 344	407 070
EC	27 272	26 870	30 312	32 417	29 230
EFTA	0	0	0	0	0
G7	384 024	398 668	421 722	426 617	389 161
MERCOSUR	148 329	152 919	149 828	153 066	152 180
NAFTA	511 071	525 742	542 166	561 298	516 676
OECD	898 241	921 848	932 765	977 704	955 783
SADC	252 072	254 683	254 947	243 544	231 750

## Palladium

	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg
Development status:					
Developed C.	36 361	35 811	34 378	36 739	35 167
Developing C.	94 102	89 795	93 935	94 023	93 624
Least Developed C.	0	0	0	0	0
Transition C.	75 732	86 523	76 320	92 625	93 028
Total	206 195	212 129	204 633	223 387	221 819

Annual per capita income:

High Income	36 361	35 811	34 378	36 739	35 167
Upper Middle Income	159 779	164 096	158 433	174 554	174 984
Lower Middle Income	0	0	0	12 094	11 668
Low Income	10 055	12 222	11 822	0	0
Total	206 195	212 129	204 633	223 387	221 819

Political stability:

Stable	22 600	21 200	0	0	0
Fair	13 939	14 634	34 428	36 794	35 167
Unstable	169 656	176 295	170 205	186 593	186 652
Extreme Unstable	0	0	0	0	0
Total	206 195	212 129	204 633	223 387	221 819

Country groups and economic blocks:

ACP	92 902	88 495	92 535	92 723	92 324
ASEAN	0	0	0	0	0
BRICS	159 601	164 073	158 383	174 499	174 884
CPE	1 200	1 300	1 400	1 300	1 300
EC	804	931	1 028	1 162	704
EFTA	0	0	0	0	0
G7	35 132	34 270	32 740	35 147	34 073
MERCOSUR	0	0	0	0	0
NAFTA	35 132	34 270	32 740	35 147	34 073
OECD	36 361	35 811	34 378	36 739	35 167
SADC	92 902	88 495	92 535	92 723	92 324

## Platinum

	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg
Development status:					
Developed C.	14 807	14 971	12 414	13 319	12 258
Developing C.	154 881	152 268	149 824	154 525	149 509
Least Developed C.	0	0	0	0	0
Transition C.	20 841	22 303	22 403	21 376	22 430
<b>Total</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 220</b>	<b>184 197</b>
Annual per capita income:					
High Income	14 807	14 971	12 414	13 319	12 258
Upper Middle Income	163 158	159 461	157 970	161 198	158 082
Lower Middle Income	0	0	0	14 703	13 857
Low Income	12 564	15 110	14 257	0	0
<b>Total</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 220</b>	<b>184 197</b>
Political stability:					
Stable	10 000	9 700	0	0	0
Fair	4 840	5 274	12 417	13 325	12 258
Unstable	175 689	174 568	172 224	175 895	171 939
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 220</b>	<b>184 197</b>
Country groups and economic blocks:					
ACP	151 720	148 351	146 757	151 756	146 846
ASEAN	0	0	0	0	0
BRICS	162 264	158 541	157 400	160 923	157 909
CPE	2 300	3 000	2 500	2 500	2 500
EC	1 032	1 228	1 429	1 584	961
EFTA	0	0	0	0	0
G7	13 667	13 591	10 830	11 625	11 202
MERCOSUR	0	0	0	0	0
NAFTA	13 667	13 591	10 830	11 625	11 202
OECD	14 807	14 971	12 414	13 319	12 258
SADC	151 720	148 351	146 757	151 756	146 846

## Rhodium

	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg
Development status:					
Developed C.	626	753	700	850	800
Developing C.	19 850	20 559	19 948	19 942	20 769
Least Developed C.	0	0	0	0	0
Transition C.	2 488	2 644	2 426	2 146	2 115
<b>Total</b>	<b>22 964</b>	<b>23 956</b>	<b>23 074</b>	<b>22 938</b>	<b>23 684</b>

Annual per capita income:

High Income	626	753	700	850	800
Upper Middle Income	21 210	21 881	21 091	20 754	21 660
Lower Middle Income	0	0	0	1 334	1 224
Low Income	1 128	1 322	1 283	0	0
<b>Total</b>	<b>22 964</b>	<b>23 956</b>	<b>23 074</b>	<b>22 938</b>	<b>23 684</b>

Political stability:

Stable	530	650	0	0	0
Fair	96	103	700	850	800
Unstable	22 338	23 203	22 374	22 088	22 884
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>22 964</b>	<b>23 956</b>	<b>23 074</b>	<b>22 938</b>	<b>23 684</b>

Country groups and economic blocks:

ACP	19 850	20 559	19 948	19 942	20 769
ASEAN	0	0	0	0	0
BRICS	21 210	21 881	21 091	20 754	21 660
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	626	753	700	850	800
MERCOSUR	0	0	0	0	0
NAFTA	626	753	700	850	800
OECD	626	753	700	850	800
SADC	19 850	20 559	19 948	19 942	20 769

## Silver

	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg
Development status:					
Developed C.	4 791 524	4 988 257	4 568 097	4 612 210	4 726 219
Developing C.	20 237 624	20 139 385	19 612 615	20 407 057	20 340 516
Least Developed C.	116 293	93 832	70 200	96 306	106 697
Transition C.	3 150 899	2 974 624	2 727 019	2 610 828	2 643 642
<b>Total</b>	<b>28 296 340</b>	<b>28 196 098</b>	<b>26 977 931</b>	<b>27 726 401</b>	<b>27 817 074</b>

Annual per capita income:

High Income	6 241 396	6 423 376	6 821 152	5 931 001	6 041 533
Upper Middle Income	18 364 726	17 948 987	17 200 871	18 871 958	19 328 208
Lower Middle Income	3 576 689	3 731 807	2 853 999	2 787 041	2 327 427
Low Income	113 529	91 928	101 909	136 401	119 906
<b>Total</b>	<b>28 296 340</b>	<b>28 196 098</b>	<b>26 977 931</b>	<b>27 726 401</b>	<b>27 817 074</b>

Political stability:

Stable	396 305	406 469	8 022	6 332	4 060
Fair	7 291 116	8 573 686	8 179 542	7 290 473	6 292 510
Unstable	20 411 359	19 001 262	18 629 751	20 168 496	21 220 204
Extreme Unstable	197 560	214 681	160 616	261 100	300 300
<b>Total</b>	<b>28 296 340</b>	<b>28 196 098</b>	<b>26 977 931</b>	<b>27 726 401</b>	<b>27 817 074</b>

Country groups and economic blocks:

ACP	293 869	324 883	322 706	373 902	395 996
ASEAN	305 131	351 759	404 762	377 599	553 796
BRICS	5 788 304	5 812 426	5 641 427	5 596 953	5 351 921
CPE	3 815 710	3 889 120	3 738 990	3 556 150	3 556 590
EC	1 870 305	2 005 493	2 013 704	2 010 213	1 997 385
EFTA	0	0	0	0	0
G7	1 482 423	1 560 599	1 432 196	1 346 185	1 403 815
MERCOSUR	1 219 388	1 104 493	1 044 361	1 073 368	1 089 813
NAFTA	7 428 958	7 026 477	7 237 822	8 580 930	8 881 820
OECD	12 382 597	12 067 814	11 784 483	13 370 082	13 710 233
SADC	73 519	79 143	83 313	65 758	79 618

## 6.3.4 Industrial Minerals

### Asbestos

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	0	0	0	0	0
Developing C.	482 182	380 800	254 120	271 000	175 000
Least Developed C.	0	0	0	0	0
Transition C.	827 490	906 275	902 950	955 817	1 000 300
<b>Total</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 817</b>	<b>1 175 300</b>
Annual per capita income:					
High Income	0	0	26	0	0
Upper Middle Income	1 309 672	1 287 075	1 157 044	1 226 817	1 175 300
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 817</b>	<b>1 175 300</b>
Political stability:					
Stable	0	0	0	0	0
Fair	130	192 600	192 726	0	0
Unstable	1 309 542	1 094 475	964 344	1 226 817	1 175 300
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 817</b>	<b>1 175 300</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	1 129 742	1 094 475	964 344	1 023 917	964 600
CPE	250 000	203 000	125 000	170 000	125 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	232 182	177 800	129 120	101 000	50 000
NAFTA	0	0	0	0	0
OECD	0	0	0	0	0
SADC	0	0	0	0	0

**Baryte**

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	679 314	437 512	561 835	596 532	613 456
Developing C.	8 056 602	7 223 285	7 565 000	7 470 840	7 446 506
Least Developed C.	36 685	35 867	36 531	44 658	61 039
Transition C.	962 300	1 046 300	790 900	1 038 500	693 600
Total	9 734 901	8 742 964	8 954 266	9 150 530	8 814 601

Annual per capita income:

High Income	619 314	387 512	513 388	526 532	541 456
Upper Middle Income	6 279 338	6 110 082	5 326 374	5 469 378	4 817 033
Lower Middle Income	2 824 249	2 236 370	3 110 304	3 150 420	3 452 112
Low Income	12 000	9 000	4 200	4 200	4 000
Total	9 734 901	8 742 964	8 954 266	9 150 530	8 814 601

Political stability:

Stable	42 000	20 000	0	0	0
Fair	822 381	1 155 441	1 250 613	688 757	732 056
Unstable	8 088 681	7 083 889	7 314 778	7 420 516	7 292 422
Extreme Unstable	781 839	483 634	388 875	1 041 257	790 123
Total	9 734 901	8 742 964	8 954 266	9 150 530	8 814 601

Country groups and economic blocks:

ACP	3 323	537	717	387	0
ASEAN	347 306	338 968	254 485	162 148	164 683
BRICS	4 464 022	4 479 709	5 387 490	5 182 300	5 080 000
CPE	3 136 000	2 860 100	3 174 200	2 954 200	2 974 000
EC	198 297	178 373	168 877	173 997	157 474
EFTA	0	0	0	0	0
G7	593 297	357 373	473 177	508 897	539 474
MERCOSUR	30 677	24 522	31 828	24 225	20 898
NAFTA	740 700	425 781	743 912	782 234	869 180
OECD	1 540 957	882 532	1 150 194	1 357 904	1 370 447
SADC	0	0	0	0	0



## Bentonite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	6 946 246	6 639 773	7 293 162	7 744 761	7 773 868
Developing C.	10 358 877	11 830 826	12 509 721	12 391 208	12 745 844
Least Developed C.	1 050	922	885	1 631	77 734
Transition C.	870 301	1 092 027	1 266 485	1 324 803	1 292 483
<b>Total</b>	<b>18 176 474</b>	<b>19 563 548</b>	<b>21 070 253</b>	<b>21 462 403</b>	<b>21 889 929</b>
Annual per capita income:					
High Income	6 949 416	6 649 449	7 423 337	7 705 061	7 779 879
Upper Middle Income	9 291 486	9 549 659	9 822 563	9 761 192	10 016 905
Lower Middle Income	1 935 222	3 364 118	3 824 068	3 995 059	4 015 411
Low Income	350	322	285	1 091	77 734
<b>Total</b>	<b>18 176 474</b>	<b>19 563 548</b>	<b>21 070 253</b>	<b>21 462 403</b>	<b>21 889 929</b>
Political stability:					
Stable	700	700	700	4 482	500
Fair	6 136 566	6 050 270	6 537 531	7 965 987	7 824 883
Unstable	8 656 514	11 518 798	12 892 435	11 483 367	11 595 840
Extreme Unstable	3 382 694	1 993 780	1 639 587	2 008 567	2 468 706
<b>Total</b>	<b>18 176 474</b>	<b>19 563 548</b>	<b>21 070 253</b>	<b>21 462 403</b>	<b>21 889 929</b>
Country groups and economic blocks:					
ACP	166 385	149 453	166 015	175 207	183 322
ASEAN	4 180	3 830	3 220	11 340	13 050
BRICS	6 496 381	9 765 204	10 540 034	10 542 486	10 625 084
CPE	3 650 500	5 600 389	5 600 589	5 600 630	5 600 504
EC	2 540 546	2 330 073	2 544 462	2 866 045	2 963 368
EFTA	0	0	0	3 234	0
G7	4 772 074	4 731 545	5 206 603	5 324 763	5 271 440
MERCOSUR	836 813	600 377	780 319	692 729	726 730
NAFTA	4 374 236	4 109 176	4 578 475	4 824 800	4 514 321
OECD	10 247 275	8 379 703	8 794 446	9 195 256	9 205 940
SADC	165 885	149 064	165 426	174 577	182 818

## Boron Minerals

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	1 218 000	1 134 000	1 075 000	1 075 000	1 030 000
Developing C.	3 424 430	2 834 757	3 041 232	3 299 429	3 024 358
Least Developed C.	0	0	0	0	0
Transition C.	112 000	108 800	112 500	118 000	110 400
<b>Total</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 164 758</b>

Annual per capita income:

High Income	1 735 584	1 692 854	1 811 994	1 473 411	1 382 255
Upper Middle Income	2 870 108	2 202 018	2 208 350	2 802 615	2 568 234
Lower Middle Income	148 738	182 685	208 388	216 403	214 269
Low Income	0	0	0	0	0
<b>Total</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 164 758</b>

Political stability:

Stable	0	0	0	0	0
Fair	1 984 267	1 871 244	1 841 994	1 544 623	1 382 255
Unstable	930 163	375 313	361 738	514 955	740 477
Extreme Unstable	1 840 000	1 831 000	2 025 000	2 432 851	2 042 026
<b>Total</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 164 758</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	172 000	158 800	152 500	168 000	330 400
CPE	90 000	80 000	70 000	80 000	250 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1 218 000	1 134 000	1 075 000	1 075 000	1 030 000
MERCOSUR	248 683	148 390	129 918	71 212	54 700
NAFTA	1 218 000	1 134 000	1 075 000	1 075 000	1 030 000
OECD	3 575 584	3 523 854	3 707 076	3 905 411	3 422 255
SADC	0	0	0	0	0

## Diamonds (Gem)

	2015 ct	2016 ct	2017 ct	2018 ct	2019 ct
Development status:					
Developed C.	11 948 691	13 594 479	23 541 451	23 069 161	18 645 795
Developing C.	20 817 543	20 390 355	22 616 770	24 184 264	21 946 830
Least Developed C.	12 131 538	12 052 270	11 633 487	10 643 940	11 491 164
Transition C.	25 147 434	24 431 760	21 860 500	22 973 133	25 804 591
<b>Total</b>	<b>70 045 206</b>	<b>70 468 864</b>	<b>79 652 208</b>	<b>80 870 498</b>	<b>77 888 380</b>

Annual per capita income:

High Income	11 948 691	13 594 479	23 541 451	23 069 161	18 645 795
Upper Middle Income	52 909 951	44 037 637	43 633 505	46 118 422	47 075 132
Lower Middle Income	224 920	8 332 281	8 811 605	8 865 655	9 487 999
Low Income	4 961 644	4 504 467	3 665 647	2 817 260	2 679 454
<b>Total</b>	<b>70 045 206</b>	<b>70 468 864</b>	<b>79 652 208</b>	<b>80 870 498</b>	<b>77 888 380</b>

Political stability:

Stable	11 677 471	13 315 319	0	0	0
Fair	16 524 128	16 397 210	41 383 491	42 119 431	36 976 555
Unstable	38 658 907	37 634 472	35 952 545	36 924 502	38 872 495
Extreme Unstable	3 184 700	3 121 863	2 316 172	1 826 565	2 039 330
Total	70 045 206	70 468 864	79 652 208	80 870 498	77 888 380

Country groups and economic blocks:

ACP	32 925 794	32 367 968	34 152 972	34 731 815	33 375 193
ASEAN	0	0	0	0	0
BRICS	28 463 941	27 828 637	25 834 825	27 033 452	28 739 672
CPE	0	127	230	99	51
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	11 677 471	13 315 319	23 198 761	22 789 001	18 402 705
MERCOSUR	10 503	60 560	84 115	83 610	53 240
NAFTA	11 677 471	13 315 319	23 198 761	22 789 001	18 402 705
OECD	11 948 691	13 594 479	23 541 451	23 069 161	18 645 795
SADC	32 066 747	31 583 718	33 649 217	33 957 260	32 643 930

## Diamonds (Ind)

	2015 ct	2016 ct	2017 ct	2018 ct	2019 ct
Development status:					
Developed C.	13 289 580	13 678 840	16 792 040	13 727 890	11 911 450
Developing C.	13 781 577	13 048 621	14 822 271	15 913 528	13 141 230
Least Developed C.	13 937 040	13 845 693	18 729 062	15 693 925	13 794 444
Transition C.	16 764 956	16 287 840	20 754 280	20 187 926	19 466 621
Total	57 773 153	56 860 994	71 097 653	65 523 269	58 313 745
Annual per capita income:					
High Income	13 289 580	13 678 840	16 792 040	13 727 890	11 911 450
Upper Middle Income	28 993 042	27 775 045	33 726 160	33 737 796	31 093 651
Lower Middle Income	346 771	1 244 034	1 939 901	4 239 948	3 382 505
Low Income	15 143 760	14 163 075	18 639 552	13 817 635	11 926 139
Total	57 773 153	56 860 994	71 097 653	65 523 269	58 313 745
Political stability:					
Stable	0	0	0	0	0
Fair	19 624 996	20 024 790	23 781 925	21 145 800	19 114 985
Unstable	25 536 867	24 386 154	30 669 336	31 056 494	27 743 063
Extreme Unstable	12 611 290	12 450 050	16 646 392	13 320 975	11 455 697
Total	57 773 153	56 860 994	71 097 653	65 523 269	58 313 745

Country groups and economic blocks:

ACP	27 674 034	26 748 839	33 353 793	31 412 373	26 808 279
ASEAN	0	0	0	0	0
BRICS	21 749 379	21 416 645	26 767 380	26 328 906	23 902 436
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	21 323	122 955	170 780	169 330	108 085
NAFTA	0	0	0	0	0
OECD	13 289 580	13 678 840	16 792 040	13 727 890	11 911 450
SADC	27 407 801	26 481 720	33 068 672	30 890 650	26 306 170

**Diatomite**

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	1 117 729	966 164	1 074 135	1 239 040	1 070 488
Developing C.	858 602	824 289	1 018 428	918 465	1 021 420
Least Developed C.	4 000	5 305	4 000	39 200	77 439
Transition C.	18 915	25 486	23 465	0	0
Total	1 999 246	1 821 244	2 120 028	2 196 705	2 169 347

Annual per capita income:

High Income	1 159 225	1 013 665	1 305 852	1 289 678	1 132 726
Upper Middle Income	816 016	775 550	808 770	866 279	955 824
Lower Middle Income	20 005	26 724	1 406	1 548	3 358
Low Income	4 000	5 305	4 000	39 200	77 439
Total	1 999 246	1 821 244	2 120 028	2 196 705	2 169 347

Political stability:

Stable	0	0	0	0	0
Fair	1 240 713	1 001 278	1 310 070	1 366 140	1 136 726
Unstable	667 877	753 006	636 374	582 776	806 264
Extreme Unstable	90 656	66 960	173 584	247 789	226 357
Total	1 999 246	1 821 244	2 120 028	2 196 705	2 169 347

Country groups and economic blocks:

ACP	5 090	6 543	5 406	40 748	78 360
ASEAN	0	0	0	0	0
BRICS	425 530	416 408	416 000	296 000	416 000
CPE	420 000	400 000	400 000	280 000	400 000
EC	280 806	279 131	305 050	282 036	302 480
EFTA	0	0	0	0	0
G7	922 000	776 000	858 000	1 047 000	858 000
MERCOSUR	66 481	73 521	86 419	88 490	110 090
NAFTA	921 810	795 970	864 474	1 109 028	897 274
OECD	1 335 691	1 185 357	1 501 491	1 684 495	1 482 757
SADC	0	1 305	0	34 200	72 439

## Feldspar

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	4 845 236	5 003 551	5 052 331	5 025 688	4 811 350
Developing C.	22 959 688	25 480 581	25 828 194	25 766 555	24 594 422
Least Developed C.	28 238	49 000	29 000	36 000	17 000
Transition C.	269 749	331 646	349 537	362 113	370 819
<b>Total</b>	<b>28 102 911</b>	<b>30 864 778</b>	<b>31 259 062</b>	<b>31 190 356</b>	<b>29 793 591</b>
Annual per capita income:					
High Income	5 618 799	5 848 260	6 121 069	5 801 617	5 424 303
Upper Middle Income	17 393 486	16 358 712	17 427 556	19 088 943	19 018 652
Lower Middle Income	5 090 626	8 657 806	7 710 437	6 299 796	5 333 636
Low Income	0	0	0	0	17 000
<b>Total</b>	<b>28 102 911</b>	<b>30 864 778</b>	<b>31 259 062</b>	<b>31 190 356</b>	<b>29 793 591</b>
Political stability:					
Stable	0	0	0	0	0
Fair	6 189 097	5 722 824	6 353 988	6 189 164	5 452 592
Unstable	11 124 502	14 956 445	14 006 033	11 897 602	11 984 585
Extreme Unstable	10 789 312	10 185 509	10 899 041	13 103 590	12 356 414
<b>Total</b>	<b>28 102 911</b>	<b>30 864 778</b>	<b>31 259 062</b>	<b>31 190 356</b>	<b>29 793 591</b>
Country groups and economic blocks:					
ACP	194 802	222 006	187 080	158 358	136 355
ASEAN	3 017 863	3 008 933	4 445 129	2 947 644	2 909 332
BRICS	6 485 265	9 536 538	7 470 250	7 458 103	7 739 904
CPE	2 353 300	2 405 790	2 508 715	2 503 000	2 452 100
EC	4 284 383	4 431 783	4 524 102	4 387 146	4 281 300
EFTA	76	70 000	87 900	88 000	80 000
G7	3 523 411	3 504 569	3 466 747	3 552 693	3 385 289
MERCOSUR	719 009	509 455	475 480	454 880	672 349
NAFTA	679 372	788 169	940 692	1 457 755	966 196
OECD	16 021 737	15 453 788	16 543 194	18 007 438	15 152 309
SADC	130 184	127 872	116 705	76 803	76 255

## Fluorspar

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	337 288	199 083	211 306	256 385	340 959
Developing C.	5 957 873	5 371 140	5 521 943	6 684 084	7 269 073
Least Developed C.	5 500	7 624	7 522	10 000	50 000
Transition C.	1 000	3 000	2 700	6 000	4 000
<b>Total</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 743 471</b>	<b>6 956 469</b>	<b>7 664 032</b>

Annual per capita income:

High Income	205 388	194 683	225 002	256 385	340 959
Upper Middle Income	5 432 089	4 777 992	4 862 781	5 796 524	6 249 003
Lower Middle Income	654 684	596 023	641 266	886 660	1 017 170
Low Income	9 500	12 149	14 422	16 900	56 900
<b>Total</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 743 471</b>	<b>6 956 469</b>	<b>7 664 032</b>

Political stability:

Stable	0	0	0	0	0
Fair	896 870	681 083	779 237	1 058 239	1 278 362
Unstable	5 385 988	4 828 651	4 933 299	5 824 253	6 262 238
Extreme Unstable	18 803	71 113	30 935	73 977	123 432
<b>Total</b>	<b>6 301 661</b>	<b>5 580 847</b>	<b>5 743 471</b>	<b>6 956 469</b>	<b>7 664 032</b>

Country groups and economic blocks:

ACP	191 412	219 656	225 344	230 000	210 000
ASEAN	229 095	238 978	240 405	255 400	255 750
BRICS	4 552 000	3 999 435	4 041 413	3 752 079	4 230 315
CPE	4 898 300	4 272 303	4 361 135	4 300 830	4 944 303
EC	337 288	199 083	211 306	236 385	260 959
EFTA	0	0	0	0	0
G7	74 741	64 552	56 375	80 197	170 959
MERCOSUR	92 633	32 482	32 696	22 924	16 500
NAFTA	624 574	659 776	741 678	1 979 654	2 011 532
OECD	836 200	864 798	973 134	2 222 239	2 286 891
SADC	121 316	177 000	218 399	230 000	210 000

## Graphite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	40 028	31 252	24 172	21 372	21 087
Developing C.	1 055 350	1 034 806	825 552	841 138	878 085
Least Developed C.	8 100	9 230	14 102	151 900	206 400
Transition C.	23 200	24 400	32 500	26 900	27 500
<b>Total</b>	<b>1 126 678</b>	<b>1 099 688</b>	<b>896 326</b>	<b>1 041 310</b>	<b>1 133 072</b>

Annual per capita income:

High Income	40 090	31 252	24 172	22 042	21 389
Upper Middle Income	882 386	868 287	756 026	766 838	811 692
Lower Middle Income	149 740	138 297	50 449	55 530	48 591
Low Income	54 462	61 852	65 679	196 900	251 400
<b>Total</b>	<b>1 126 678</b>	<b>1 099 688</b>	<b>896 326</b>	<b>1 041 310</b>	<b>1 133 072</b>

Political stability:

Stable	30 000	21 000	0	0	0
Fair	15 202	10 252	26 388	26 998	24 889
Unstable	1 071 476	1 056 436	852 938	982 560	1 088 193
Extreme Unstable	10 000	12 000	17 000	31 752	19 990
<b>Total</b>	<b>1 126 678</b>	<b>1 099 688</b>	<b>896 326</b>	<b>1 041 310</b>	<b>1 133 072</b>

Country groups and economic blocks:

ACP	14 462	14 852	17 895	155 356	206 400
ASEAN	0	0	0	1 500	3 500
BRICS	1 010 490	976 524	773 149	777 730	831 261
CPE	820 000	827 000	675 000	676 500	748 500
EC	843	652	572	372	307
EFTA	9 185	9 600	9 600	10 000	9 780
G7	30 398	21 502	14 422	11 222	11 207
MERCOSUR	82 662	61 687	95 000	96 800	81 770
NAFTA	36 524	35 200	24 310	15 130	13 342
OECD	46 614	45 452	38 482	42 924	33 721
SADC	14 462	14 852	17 895	155 356	206 400

## Gypsum and Anhydrite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	45 641 638	49 913 114	51 093 875	56 433 002	54 359 573
Developing C.	90 800 885	97 246 841	96 461 362	97 881 335	93 987 518
Least Developed C.	2 437 848	1 906 358	1 908 063	2 369 840	2 319 199
Transition C.	6 357 444	6 517 918	6 433 714	7 960 179	6 640 876
<b>Total</b>	<b>145 237 815</b>	<b>155 584 231</b>	<b>155 897 014</b>	<b>164 644 356</b>	<b>157 307 166</b>
Annual per capita income:					
High Income	54 536 267	60 855 161	64 262 449	69 524 058	69 384 155
Upper Middle Income	81 395 325	85 484 721	81 574 569	84 371 924	75 347 495
Lower Middle Income	8 880 921	8 880 049	9 640 049	10 080 149	11 987 145
Low Income	425 302	364 300	419 947	668 225	588 371
<b>Total</b>	<b>145 237 815</b>	<b>155 584 231</b>	<b>155 897 014</b>	<b>164 644 356</b>	<b>157 307 166</b>
Political stability:					
Stable	2 046 216	2 018 573	330 000	330 000	330 000
Fair	53 287 696	54 681 904	62 354 052	69 019 798	67 211 868
Unstable	75 920 140	83 026 655	76 781 532	67 501 779	61 749 858
Extreme Unstable	13 983 763	15 857 099	16 431 430	27 792 779	28 015 440
<b>Total</b>	<b>145 237 815</b>	<b>155 584 231</b>	<b>155 897 014</b>	<b>164 644 356</b>	<b>157 307 166</b>

Country groups and economic blocks:

ACP	1 684 361	1 420 823	1 381 175	1 598 725	1 638 061
ASEAN	13 227 079	12 462 036	11 470 698	12 125 783	10 692 990
BRICS	29 755 358	34 353 592	33 232 020	34 890 388	33 571 402
CPE	20 090 900	25 473 900	25 085 400	25 099 900	25 066 300
EC	20 843 519	24 200 455	23 476 924	27 244 291	25 591 113
EFTA	397 403	422 386	417 891	419 655	432 100
G7	29 125 306	31 848 375	32 934 730	35 794 052	33 839 187
MERCOSUR	4 481 011	4 237 044	3 393 316	3 016 717	2 880 513
NAFTA	27 627 828	29 176 411	32 898 910	35 615 744	31 790 149
OECD	60 420 969	67 061 579	70 024 145	77 838 679	68 795 892
SADC	598 900	476 201	476 330	595 248	565 631

## Kaolin

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	15 940 774	16 575 612	17 447 100	17 274 410	16 548 051
Developing C.	19 208 462	18 314 570	18 136 928	18 873 453	18 038 816
Least Developed C.	62 017	57 865	79 779	167 864	64 791
Transition C.	3 159 404	4 104 986	4 645 501	4 307 865	4 004 550
Total	38 370 657	39 053 033	40 309 308	40 623 592	38 656 208

Annual per capita income:

High Income	16 368 972	17 020 858	18 016 153	17 719 507	16 810 478
Upper Middle Income	14 083 745	14 066 009	14 257 589	14 816 392	14 642 555
Lower Middle Income	7 870 413	7 914 801	7 961 233	7 930 829	7 153 727
Low Income	47 527	51 365	74 333	156 864	49 448
Total	38 370 657	39 053 033	40 309 308	40 623 592	38 656 208

Political stability:

Stable	13 659	61 650	50 424	51 369	50 569
Fair	17 100 620	17 506 446	18 775 588	18 526 816	17 382 231
Unstable	17 263 893	17 569 684	17 424 770	17 227 100	16 216 137
Extreme Unstable	3 992 485	3 915 253	4 058 526	4 818 307	5 007 271
Total	38 370 657	39 053 033	40 309 308	40 623 592	38 656 208

Country groups and economic blocks:

ACP	104 743	106 610	160 400	206 995	107 718
ASEAN	1 186 735	1 332 610	1 394 238	1 465 956	1 369 636
BRICS	14 415 126	14 172 941	14 405 186	14 109 624	13 830 237
CPE	7 131 500	7 342 500	7 011 500	6 752 700	6 502 100
EC	9 951 750	10 989 733	11 742 526	11 687 303	11 311 432
EFTA	0	0	0	0	0
G7	11 024 864	11 425 993	12 079 120	11 889 842	11 470 389
MERCOSUR	1 877 214	1 769 198	1 796 940	1 573 000	1 489 463
NAFTA	6 176 049	5 742 070	5 775 864	6 248 246	5 306 645
OECD	18 265 091	18 367 853	19 258 611	19 815 581	18 094 810
SADC	22 079	21 797	45 002	153 107	43 170



## Magnesite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	3 360 427	3 062 233	3 463 867	3 592 172	3 508 224
Developing C.	23 266 840	22 636 643	23 293 890	23 547 047	22 808 649
Least Developed C.	60	0	0	0	0
Transition C.	1 709 300	1 196 200	1 405 500	1 577 350	1 015 200
<b>Total</b>	<b>28 336 627</b>	<b>26 895 076</b>	<b>28 163 257</b>	<b>28 716 569</b>	<b>27 332 073</b>
Annual per capita income:					
High Income	3 437 427	3 162 233	3 567 999	3 747 172	3 708 224
Upper Middle Income	24 385 139	23 203 267	24 198 059	24 688 926	23 374 688
Lower Middle Income	364 402	368 641	224 711	180 471	149 161
Low Income	149 659	160 935	172 488	100 000	100 000
<b>Total</b>	<b>28 336 627</b>	<b>26 895 076</b>	<b>28 163 257</b>	<b>28 716 569</b>	<b>27 332 073</b>
Political stability:					
Stable	150 000	150 000	0	0	0
Fair	2 827 197	2 514 293	3 021 187	3 592 172	3 508 224
Unstable	22 019 591	20 926 800	23 428 343	23 004 509	22 138 531
Extreme Unstable	3 339 839	3 303 983	1 713 727	2 119 888	1 685 318
<b>Total</b>	<b>28 336 627</b>	<b>26 895 076</b>	<b>28 163 257</b>	<b>28 716 569</b>	<b>27 332 073</b>
Country groups and economic blocks:					
ACP	10 200	8 800	8 700	8 500	8 500
ASEAN	7 158	10 310	10 000	10 000	10 000
BRICS	21 108 388	19 989 273	22 404 726	22 626 775	21 819 984
CPE	17 589 599	17 000 935	18 672 488	19 100 000	19 100 000
EC	2 547 215	2 442 778	3 103 023	3 178 726	2 945 042
EFTA	0	0	0	0	0
G7	150 000	150 000	150 000	150 000	150 000
MERCOSUR	1 621 425	1 652 424	2 303 971	1 900 000	1 700 000
NAFTA	251 000	251 000	251 000	251 000	150 800
OECD	6 796 685	6 421 678	5 258 938	5 652 019	5 005 105
SADC	10 200	8 800	8 700	8 500	8 500

## Perlite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	1 447 945	1 493 030	1 585 863	1 357 297	1 315 668
Developing C.	999 429	1 190 605	691 939	1 224 705	1 259 969
Least Developed C.	0	0	0	0	0
Transition C.	102 657	89 820	59 036	96 222	125 676
<b>Total</b>	<b>2 550 031</b>	<b>2 773 455</b>	<b>2 336 838</b>	<b>2 678 224</b>	<b>2 701 313</b>

Annual per capita income:

High Income	1 450 945	1 498 530	1 609 997	1 362 317	1 320 368
Upper Middle Income	1 005 754	1 191 360	711 803	1 308 578	1 374 337
Lower Middle Income	93 332	83 565	15 038	7 329	6 608
Low Income	0	0	0	0	0
<b>Total</b>	<b>2 550 031</b>	<b>2 773 455</b>	<b>2 336 838</b>	<b>2 678 224</b>	<b>2 701 313</b>

Political stability:

Stable	0	0	0	0	0
Fair	583 557	595 025	677 047	1 381 111	1 320 368
Unstable	1 123 232	1 073 434	1 053 560	136 551	174 631
Extreme Unstable	843 242	1 104 996	606 231	1 160 562	1 206 314
<b>Total</b>	<b>2 550 031</b>	<b>2 773 455</b>	<b>2 336 838</b>	<b>2 678 224</b>	<b>2 701 313</b>

Country groups and economic blocks:

ACP	1 000	1 000	1 000	1 000	1 000
ASEAN	52 875	54 435	20 838	12 929	21 608
BRICS	46 000	46 000	46 000	46 000	46 000
CPE	0	0	0	0	0
EC	946 945	971 410	1 015 588	861 012	788 404
EFTA	0	0	0	0	0
G7	501 000	521 000	570 000	494 000	526 000
MERCOSUR	23 282	17 905	19 924	18 794	1 850
NAFTA	514 000	549 431	585 899	520 400	550 497
OECD	2 307 187	2 593 212	2 212 203	2 477 700	2 519 351
SADC	1 000	1 000	1 000	1 000	1 000

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	9 660 735	9 563 444	9 589 760	9 014 070	8 034 980
Developing C.	67 130 192	67 808 992	63 309 425	55 506 590	55 998 140
Least Developed C.	1 058 340	1 198 730	1 107 750	1 147 140	1 151 920
Transition C.	5 038 900	5 315 600	5 686 400	5 835 200	5 920 540
<b>Total</b>	<b>82 888 167</b>	<b>83 886 766</b>	<b>79 693 335</b>	<b>71 503 000</b>	<b>71 105 580</b>

Annual per capita income:

High Income	11 196 205	11 185 184	11 291 950	10 648 430	9 781 330
Upper Middle Income	58 581 382	56 992 942	52 543 405	44 951 690	44 188 900
Lower Middle Income	11 949 540	14 406 410	14 598 530	15 341 150	16 615 330
Low Income	1 161 040	1 302 230	1 259 450	561 730	520 020
<b>Total</b>	<b>82 888 167</b>	<b>83 886 766</b>	<b>79 693 335</b>	<b>71 503 000</b>	<b>71 105 580</b>

Political stability:

Stable	0	0	0	0	0
Fair	9 416 515	9 672 734	10 353 750	9 237 390	9 447 660
Unstable	72 069 492	73 171 572	68 208 505	61 658 510	60 990 640
Extreme Unstable	1 402 160	1 042 460	1 131 080	607 100	667 280
Total	82 888 167	83 886 766	79 693 335	71 503 000	71 105 580

Country groups and economic blocks:

ACP	1 760 040	1 840 830	1 904 450	1 905 940	1 829 620
ASEAN	882 950	951 440	1 387 400	1 301 160	1 395 480
BRICS	50 280 350	51 045 030	45 258 620	37 216 340	36 168 700
CPE	43 583 720	44 357 150	38 411 000	30 292 460	29 487 680
EC	344 360	338 230	352 300	356 070	363 020
EFTA	0	0	0	0	0
G7	7 710 000	7 615 000	7 840 000	7 250 000	6 547 000
MERCOSUR	2 174 370	2 088 900	2 102 320	1 997 100	1 850 000
NAFTA	8 288 830	8 603 280	8 532 150	7 472 500	6 796 520
OECD	10 281 935	10 637 144	10 135 210	9 125 950	8 291 040
SADC	707 130	607 930	746 270	736 720	652 450

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	17 929 792	17 298 649	18 987 824	20 373 906	18 305 617
Developing C.	8 642 328	8 635 909	8 509 486	8 163 221	8 339 200
Least Developed C.	255 100	198 600	307 600	343 500	286 900
Transition C.	13 410 900	12 743 100	14 486 800	14 508 596	14 797 543
Total	40 238 120	38 876 258	42 291 710	43 389 223	41 729 260
Annual per capita income:					
High Income	19 109 352	18 602 489	20 226 454	21 365 086	18 989 157
Upper Middle Income	20 770 668	18 770 029	21 672 656	21 588 337	22 383 053
Lower Middle Income	358 100	1 503 740	392 600	435 800	357 050
Low Income	0	0	0	0	0
Total	40 238 120	38 876 258	42 291 710	43 389 223	41 729 260
Political stability:					
Stable	11 461 530	10 789 662	0	0	0
Fair	13 073 822	12 098 427	18 407 354	26 905 382	24 771 450
Unstable	15 702 768	15 988 169	23 884 356	16 450 941	16 920 610
Extreme Unstable	0	0	0	32 900	37 200
Total	40 238 120	38 876 258	42 291 710	43 389 223	41 729 260

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	255 100	198 600	307 600	343 500	286 900
BRICS	12 858 018	12 579 429	13 140 296	12 708 181	13 470 000
CPE	5 714 000	5 783 000	5 534 000	5 452 000	5 902 000
EC	4 431 262	3 905 887	3 818 429	3 680 675	3 299 399
EFTA	0	0	0	0	0
G7	15 964 833	14 533 303	16 303 656	17 589 116	15 852 602
MERCOSUR	304 018	316 429	306 296	201 181	200 000
NAFTA	12 201 530	11 299 662	13 042 695	14 543 931	13 153 318
OECD	19 109 352	18 602 489	20 226 454	21 365 086	18 989 157
SADC	0	0	0	0	0

**Salt**

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	124 306 978	113 083 596	115 930 799	118 467 303	119 220 447
Developing C.	156 688 136	151 929 268	151 842 845	155 088 906	151 459 688
Least Developed C.	3 001 832	3 337 243	3 212 778	3 054 332	2 999 933
Transition C.	10 399 543	12 946 243	13 736 004	14 157 923	15 267 448
Total	294 396 489	281 296 350	284 722 426	290 768 464	288 947 516

Annual per capita income:

High Income	134 406 520	118 995 422	122 911 088	126 647 955	130 226 774
Upper Middle Income	115 960 657	117 190 531	117 173 073	115 605 969	115 391 460
Lower Middle Income	42 291 548	43 656 890	43 104 211	47 289 953	41 753 463
Low Income	1 737 764	1 453 507	1 534 054	1 224 587	1 575 819
Total	294 396 489	281 296 350	284 722 426	290 768 464	288 947 516

Political stability:

Stable	14 869 314	10 806 377	555 509	637 014	582 325
Fair	128 494 871	114 063 195	128 141 665	136 312 403	135 614 684
Unstable	137 813 049	140 540 773	139 965 855	137 633 826	135 230 012
Extreme Unstable	13 219 255	15 886 005	16 059 397	16 185 221	17 520 495
Total	294 396 489	281 296 350	284 722 426	290 768 464	288 947 516

Country groups and economic blocks:

ACP	4 441 559	3 767 977	3 831 031	4 639 429	4 490 392
ASEAN	5 977 598	4 149 497	4 646 091	6 469 129	6 435 743
BRICS	106 869 274	110 063 253	110 438 506	108 457 685	106 293 012
CPE	68 502 986	67 931 478	67 937 360	65 326 297	64 331 833
EC	51 155 203	48 333 827	50 682 786	50 263 127	51 212 449
EFTA	489 541	462 848	463 509	591 414	492 325
G7	89 648 581	78 838 768	79 208 190	80 776 018	83 615 247
MERCOSUR	9 718 792	9 962 599	9 910 611	9 984 020	9 184 700
NAFTA	69 104 400	62 395 947	60 594 403	62 105 258	62 787 521
OECD	147 154 015	131 901 793	134 163 799	138 659 729	140 254 445
SADC	1 964 984	2 070 542	2 057 017	2 252 755	2 215 405

## Sulfur

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	24 966 243	25 017 722	25 055 357	24 949 731	25 749 214
Developing C.	40 684 891	42 002 633	41 677 838	43 500 793	44 744 412
Least Developed C.	300 000	363 000	679 500	947 800	960 200
Transition C.	10 652 100	10 389 800	11 173 700	11 100 950	11 072 950
<b>Total</b>	<b>76 603 234</b>	<b>77 773 155</b>	<b>78 586 395</b>	<b>80 499 274</b>	<b>82 526 776</b>
Annual per capita income:					
High Income	41 320 657	42 766 140	42 451 065	42 941 889	44 577 667
Upper Middle Income	30 392 747	29 724 146	30 134 590	30 384 945	31 700 844
Lower Middle Income	4 869 330	5 272 869	5 990 740	7 162 440	6 238 265
Low Income	20 500	10 000	10 000	10 000	10 000
<b>Total</b>	<b>76 603 234</b>	<b>77 773 155</b>	<b>78 586 395</b>	<b>80 499 274</b>	<b>82 526 776</b>
Political stability:					
Stable	5 745 000	5 381 000	0	0	0
Fair	30 364 857	33 573 950	39 945 460	37 624 419	38 217 412
Unstable	40 033 347	37 244 636	37 395 495	39 307 615	40 955 649
Extreme Unstable	460 030	1 573 569	1 245 440	3 567 240	3 353 715
<b>Total</b>	<b>76 603 234</b>	<b>77 773 155</b>	<b>78 586 395</b>	<b>80 499 274</b>	<b>82 526 776</b>
Country groups and economic blocks:					
ACP	584 381	643 830	936 200	1 187 097	1 879 824
ASEAN	1 566 400	1 674 400	1 556 400	1 600 000	1 550 000
BRICS	24 076 581	24 639 730	24 750 600	25 992 397	26 945 574
CPE	13 821 600	13 918 100	13 498 700	13 772 700	14 460 000
EC	5 250 343	5 368 922	5 725 857	5 518 431	5 771 814
EFTA	110 000	110 000	100 000	120 000	100 000
G7	20 531 997	20 567 984	20 347 282	20 269 797	21 328 512
MERCOSUR	1 230 000	1 230 000	1 230 000	1 230 000	1 000 000
NAFTA	16 143 527	15 794 285	15 508 218	15 445 657	16 012 967
OECD	29 207 970	29 149 887	28 901 905	28 902 488	29 497 781
SADC	584 381	643 830	936 200	1 187 097	1 879 824

## Talc

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	2 332 534	2 362 275	2 465 695	2 404 548	2 234 676
Developing C.	5 134 483	5 087 148	5 387 766	5 483 712	5 697 541
Least Developed C.	14 062	8 371	12 389	14 700	6 838
Transition C.	20 598	20 729	20 478	13 059	10 000
<b>Total</b>	<b>7 501 677</b>	<b>7 478 523</b>	<b>7 886 328</b>	<b>7 916 019</b>	<b>7 949 055</b>

Annual per capita income:

High Income	2 976 512	2 997 062	2 959 417	2 799 779	2 612 982
Upper Middle Income	3 217 000	2 996 512	3 052 979	3 262 368	3 464 587
Lower Middle Income	1 252 910	1 443 089	1 826 836	1 805 214	1 829 486
Low Income	55 255	41 860	47 096	48 658	42 000
<b>Total</b>	<b>7 501 677</b>	<b>7 478 523</b>	<b>7 886 328</b>	<b>7 916 019</b>	<b>7 949 055</b>

Political stability:

Stable	175 000	199 000	0	0	0
Fair	2 801 093	2 324 589	2 916 710	2 768 893	2 566 357
Unstable	4 193 999	4 606 518	4 321 960	4 641 479	5 069 323
Extreme Unstable	331 585	348 416	647 658	505 647	313 375
<b>Total</b>	<b>7 501 677</b>	<b>7 478 523</b>	<b>7 886 328</b>	<b>7 916 019</b>	<b>7 949 055</b>

Country groups and economic blocks:

ACP	24 849	28 493	64 673	108 810	139 930
ASEAN	52 268	103 926	61 436	58 676	14 564
BRICS	3 817 637	3 830 626	4 031 143	4 414 642	4 885 430
CPE	2 250 000	2 040 000	1 840 000	2 040 000	2 490 000
EC	1 087 534	1 099 275	1 155 695	1 187 548	1 113 676
EFTA	0	0	0	0	0
G7	1 785 430	1 769 997	1 828 218	1 703 640	1 542 600
MERCOSUR	516 046	510 713	515 430	673 492	660 050
NAFTA	810 452	794 263	832 129	935 448	828 202
OECD	3 138 579	3 174 999	3 381 598	3 046 006	2 664 205
SADC	21 849	23 576	58 776	102 142	135 430

## Vermiculite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	100 000	100 000	100 000	100 000	100 000
Developing C.	307 101	310 687	297 572	295 926	286 186
Least Developed C.	1 213	3 295	4 119	10 413	9 674
Transition C.	21 000	20 000	14 400	25 904	20 000
<b>Total</b>	<b>429 314</b>	<b>433 982</b>	<b>416 091</b>	<b>432 243</b>	<b>415 860</b>

Annual per capita income:

High Income	100 000	100 000	100 000	100 000	100 000
Upper Middle Income	265 354	292 233	282 616	285 677	277 112
Lower Middle Income	31 879	9 142	6 054	36 153	29 074
Low Income	32 081	32 607	27 421	10 413	9 674
<b>Total</b>	<b>429 314</b>	<b>433 982</b>	<b>416 091</b>	<b>432 243</b>	<b>415 860</b>

Political stability:

Stable	0	0	0	0	0
Fair	100 090	100 060	100 000	100 000	100 000
Unstable	320 609	332 772	314 473	314 060	314 490
Extreme Unstable	8 615	1 150	1 618	18 183	1 370
<b>Total</b>	<b>429 314</b>	<b>433 982</b>	<b>416 091</b>	<b>432 243</b>	<b>415 860</b>

Country groups and economic blocks:

ACP	170 781	199 190	193 505	184 920	193 987
ASEAN	0	0	0	0	0
BRICS	286 819	298 855	286 588	270 242	278 368
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	54 340	53 390	50 050	50 000	47 581
NAFTA	100 299	100 310	100 464	100 244	100 148
OECD	100 724	101 360	102 082	118 427	101 518
SADC	169 158	195 795	189 386	174 507	184 213

## Zircon

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
<b>Development status:</b>					
Developed C.	747 326	650 000	615 000	718 000	810 000
Developing C.	628 467	604 021	601 587	592 768	626 560
Least Developed C.	110 316	137 738	184 699	203 969	204 847
Transition C.	38 180	36 984	34 563	29 014	24 300
<b>Total</b>	<b>1 524 289</b>	<b>1 428 743</b>	<b>1 435 849</b>	<b>1 543 751</b>	<b>1 665 707</b>
<b>Annual per capita income:</b>					
High Income	747 326	650 000	615 000	718 000	810 000
Upper Middle Income	550 920	507 589	509 932	486 254	581 849
Lower Middle Income	115 727	133 416	126 218	229 097	149 758
Low Income	110 316	137 738	184 699	110 400	124 100
<b>Total</b>	<b>1 524 289</b>	<b>1 428 743</b>	<b>1 435 849</b>	<b>1 543 751</b>	<b>1 665 707</b>
<b>Political stability:</b>					
Stable	0	0	0	0	0
Fair	756 766	659 953	622 095	729 009	897 796
Unstable	734 198	698 432	781 229	789 757	748 911
Extreme Unstable	33 325	70 358	32 525	24 985	19 000
<b>Total</b>	<b>1 524 289</b>	<b>1 428 743</b>	<b>1 435 849</b>	<b>1 543 751</b>	<b>1 665 707</b>

Country groups and economic blocks:

ACP	515 859	555 746	592 815	545 387	576 287
ASEAN	39 726	44 753	36 595	64 709	80 149
BRICS	567 031	518 145	516 244	494 916	520 300
CPE	148 000	109 300	121 500	160 500	146 600
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	60 000	50 000	45 000	100 000	100 000
MERCOSUR	22 647	21 302	22 000	22 000	22 000
NAFTA	60 000	50 000	45 000	100 000	100 000
OECD	748 826	650 500	616 200	719 950	810 000
SADC	441 446	461 212	461 763	402 610	455 600

### 6.3.5 Mineral Fuels

#### Steam Coal

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	1 050 658 413	886 812 448	912 937 581	900 574 052	864 404 217
Developing C.	4 285 554 999	4 022 573 525	4 251 009 192	4 522 655 750	4 697 338 749
Least Developed C.	5 389 796	6 202 578	9 742 022	12 662 361	11 010 491
Transition C.	326 231 091	332 669 675	365 977 990	396 455 055	387 673 288
<b>Total</b>	<b>5 667 834 299</b>	<b>5 248 258 226</b>	<b>5 539 666 785</b>	<b>5 832 347 218</b>	<b>5 960 426 745</b>
Annual per capita income:					
High Income	1 055 564 589	891 058 765	916 956 266	904 070 649	867 094 771
Upper Middle Income	3 464 572 451	3 173 080 423	3 379 804 528	3 573 617 269	4 286 467 419
Lower Middle Income	1 112 606 869	1 145 591 740	1 208 761 206	1 325 608 410	779 716 347
Low Income	35 090 390	38 527 298	34 144 785	29 050 890	27 148 208
<b>Total</b>	<b>5 667 834 299</b>	<b>5 248 258 226</b>	<b>5 539 666 785</b>	<b>5 832 347 218</b>	<b>5 960 426 745</b>
Political stability:					
Stable	27 579 000	26 460 000	1 426 000	1 717 860	1 550 470
Fair	1 078 578 580	995 400 607	1 056 844 068	957 542 844	925 641 393
Unstable	4 531 381 680	4 180 536 814	4 452 281 761	4 840 461 765	5 001 006 601
Extreme Unstable	30 295 039	45 860 805	29 114 956	32 624 749	32 228 281
<b>Total</b>	<b>5 667 834 299</b>	<b>5 248 258 226</b>	<b>5 539 666 785</b>	<b>5 832 347 218</b>	<b>5 960 426 745</b>



Country groups and economic blocks:

ACP	260 861 666	258 710 760	264 032 439	265 870 073	261 006 625
ASEAN	502 730 472	512 953 573	544 518 651	602 157 368	677 166 936
BRICS	3 862 246 350	3 585 633 835	3 823 933 339	4 066 726 594	4 165 386 538
CPE	2 885 618 000	2 587 766 000	2 745 526 390	2 918 863 161	3 039 182 882
EC	75 877 031	66 285 107	60 296 248	57 535 392	52 821 447
EFTA	1 203 382	960 341	134 433	154 200	117 000
G7	727 057 000	573 517 000	602 131 000	584 468 530	539 774 250
MERCOSUR	4 494 811	3 776 332	3 733 152	3 750 753	4 347 664
NAFTA	723 324 620	576 789 505	605 861 800	588 155 128	544 473 026
OECD	1 064 582 209	901 302 270	926 322 453	913 003 697	875 283 497
SADC	260 495 762	257 474 974	263 401 433	265 295 814	260 393 281

## Coking Coal

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	297 660 620	284 992 500	304 660 700	301 483 591	302 611 283
Developing C.	682 314 278	648 578 135	602 292 124	574 230 389	607 479 386
Least Developed C.	4 786 612	3 972 122	7 385 930	8 355 292	5 356 390
Transition C.	105 983 900	110 576 800	106 283 600	105 242 300	110 161 700
Total	1 090 745 410	1 048 119 557	1 020 622 354	989 311 572	1 025 608 759

Annual per capita income:

High Income	297 660 620	284 992 500	304 660 700	301 483 591	302 611 283
Upper Middle Income	706 046 278	667 230 135	632 976 275	601 245 083	628 161 026
Lower Middle Income	81 793 900	91 507 800	75 353 900	78 227 606	89 480 060
Low Income	5 244 612	4 389 122	7 631 479	8 355 292	5 356 390
Total	1 090 745 410	1 048 119 557	1 020 622 354	989 311 572	1 025 608 759

Political stability:

Stable	28 674 000	26 187 000	1 173 100	1 213 400	1 200 900
Fair	281 599 620	294 271 500	344 909 300	327 343 941	331 927 283
Unstable	773 640 890	720 457 257	668 542 054	653 805 801	684 393 376
Extreme Unstable	6 830 900	7 203 800	5 997 900	6 948 430	8 087 200
Total	1 090 745 410	1 048 119 557	1 020 622 354	989 311 572	1 025 608 759

Country groups and economic blocks:

ACP	9 196 612	8 636 122	11 659 754	12 588 485	9 502 868
ASEAN	2 230 000	3 340 000	4 300 000	5 117 786	5 752 018
BRICS	740 786 000	701 525 000	644 583 575	618 564 083	653 285 348
CPE	605 660 000	567 015 000	540 779 300	510 770 410	533 061 730
EC	20 409 620	19 367 500	17 972 000	16 750 991	15 070 283
EFTA	0	0	0	0	0
G7	88 530 800	78 336 800	98 474 060	106 246 830	98 778 550
MERCOSUR	0	0	0	0	0
NAFTA	87 301 408	80 703 135	100 081 600	108 904 200	102 064 500
OECD	300 867 028	291 238 635	309 990 700	306 910 721	307 290 683
SADC	9 196 612	8 636 122	11 659 754	12 588 485	9 502 868

## Lignite

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	542 407 725	508 474 454	514 408 948	479 677 943	412 380 403
Developing C.	123 806 554	142 599 818	142 632 891	149 090 450	151 729 661
Least Developed C.	4 518 068	13 330 121	13 529 492	16 389 001	15 726 355
Transition C.	150 125 874	149 937 142	151 531 248	156 968 277	159 811 182
<b>Total</b>	<b>820 858 221</b>	<b>814 341 535</b>	<b>822 102 579</b>	<b>802 125 671</b>	<b>739 647 601</b>
Annual per capita income:					
High Income	480 977 625	454 060 254	454 069 148	424 217 115	382 917 788
Upper Middle Income	271 952 534	280 927 912	287 994 672	303 715 655	286 232 958
Lower Middle Income	67 928 062	79 353 369	80 038 759	74 192 901	70 496 855
Low Income	0	0	0	0	0
<b>Total</b>	<b>820 858 221</b>	<b>814 341 535</b>	<b>822 102 579</b>	<b>802 125 671</b>	<b>739 647 601</b>
Political stability:					
Stable	9 480 086	9 480 035	319 487	307 378	287 830
Fair	535 916 578	531 693 577	542 193 112	542 263 499	435 728 715
Unstable	219 111 857	202 928 923	208 130 810	177 985 070	215 888 263
Extreme Unstable	56 349 700	70 239 000	71 459 170	81 569 724	87 742 793
<b>Total</b>	<b>820 858 221</b>	<b>814 341 535</b>	<b>822 102 579</b>	<b>802 125 671</b>	<b>739 647 601</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	19 668 617	30 308 722	29 788 129	31 240 951	29 804 320
BRICS	120 151 305	120 310 217	120 332 084	124 005 500	124 499 696
CPE	5 755 000	6 672 000	6 783 000	7 449 000	6 672 000
EC	403 285 139	372 829 019	386 821 961	372 974 065	311 672 873
EFTA	0	0	0	0	0
G7	251 502 500	245 411 750	241 834 200	226 698 500	188 418 700
MERCOSUR	2 709 305	3 480 217	1 488 084	1 422 500	1 596 696
NAFTA	73 437 500	73 859 400	70 548 500	60 440 500	57 104 700
OECD	537 327 325	524 299 254	525 528 318	505 301 115	448 545 468
SADC	0	0	0	0	0

## Natural Gas

	2015 Mio m <sup>3</sup>	2016 Mio m <sup>3</sup>	2017 Mio m <sup>3</sup>	2018 Mio m <sup>3</sup>	2019 Mio m <sup>3</sup>
Development status:					
Developed C.	1 266 205	1 274 838	1 318 064	1 423 125	1 514 781
Developing C.	1 437 375	1 464 613	1 514 050	1 556 451	1 568 705
Least Developed C.	60 916	63 337	67 078	56 719	59 512
Transition C.	828 557	799 937	878 922	915 786	927 317
<b>Total</b>	<b>3 593 053</b>	<b>3 602 725</b>	<b>3 778 114</b>	<b>3 952 081</b>	<b>4 070 315</b>

Annual per capita income:

High Income	1 701 157	1 712 843	1 807 488	1 880 071	1 980 224
Upper Middle Income	1 462 209	1 472 587	1 541 946	1 632 623	1 626 547
Lower Middle Income	423 415	410 581	418 260	428 868	455 364
Low Income	6 272	6 714	10 420	10 519	8 180
<b>Total</b>	<b>3 593 053</b>	<b>3 602 725</b>	<b>3 778 114</b>	<b>3 952 081</b>	<b>4 070 315</b>

Political stability:

Stable	161 019	163 215	4 761	4 161	4 464
Fair	1 523 285	1 559 155	1 771 878	1 862 654	1 914 186
Unstable	1 721 813	1 667 871	1 745 052	1 656 278	1 718 154
Extreme Unstable	186 936	212 484	256 423	428 988	433 511
<b>Total</b>	<b>3 593 053</b>	<b>3 602 725</b>	<b>3 778 114</b>	<b>3 952 081</b>	<b>4 070 315</b>

Country groups and economic blocks:

ACP	115 605	106 820	115 623	119 253	118 592
ASEAN	225 332	227 250	227 023	217 791	219 007
BRICS	812 973	800 157	889 966	928 319	952 407
CPE	146 515	148 660	158 952	171 139	187 335
EC	135 108	133 749	128 271	113 696	102 333
EFTA	117 008	116 767	124 664	122 203	115 123
G7	982 212	970 321	993 708	1 093 316	1 175 569
MERCOSUR	100 122	103 337	107 008	99 236	97 034
NAFTA	963 193	945 852	965 555	1 070 221	1 156 187
OECD	1 295 260	1 299 395	1 338 293	1 443 396	1 535 179
SADC	8 185	9 045	12 991	13 600	13 885

## Petroleum

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	982 028 779	961 246 132	1 009 433 086	1 129 723 838	1 217 370 009
Developing C.	2 545 760 135	2 576 019 715	2 538 449 110	2 515 541 619	2 422 678 791
Least Developed C.	124 383 320	115 661 780	107 724 310	91 756 580	89 093 020
Transition C.	676 767 190	686 546 136	691 273 473	704 577 436	708 068 667
<b>Total</b>	<b>4 328 939 424</b>	<b>4 339 473 763</b>	<b>4 346 879 979</b>	<b>4 441 599 473</b>	<b>4 437 210 487</b>

Annual per capita income:

High Income	2 007 116 408	2 014 776 772	2 035 230 421	2 147 241 986	2 218 913 464
Upper Middle Income	2 016 628 110	1 955 869 166	1 948 358 195	1 936 509 950	1 833 893 064
Lower Middle Income	289 985 546	355 606 845	347 210 661	340 977 938	361 969 916
Low Income	15 209 360	13 220 980	16 080 702	16 869 599	22 434 043
<b>Total</b>	<b>4 328 939 424</b>	<b>4 339 473 763</b>	<b>4 346 879 979</b>	<b>4 441 599 473</b>	<b>4 437 210 487</b>

Political stability:

Stable	195 756 580	195 904 340	1 399 820	1 085 650	1 088 120
Fair	1 200 951 064	1 248 304 630	1 490 327 573	1 649 257 535	1 719 468 454
Unstable	2 549 581 925	2 505 779 740	2 325 420 596	2 087 073 300	2 083 864 063
Extreme Unstable	382 649 855	389 485 053	529 731 990	704 182 988	632 789 850
<b>Total</b>	<b>4 328 939 424</b>	<b>4 339 473 763</b>	<b>4 346 879 979</b>	<b>4 441 599 473</b>	<b>4 437 210 487</b>

Country groups and economic blocks:

ACP	273 235 147	248 706 586	246 592 865	241 993 480	245 234 434
ASEAN	110 646 590	112 239 100	107 184 740	103 035 410	98 780 760
BRICS	910 926 628	913 183 366	910 016 475	913 507 140	927 403 234
CPE	237 306 800	220 659 700	210 586 200	206 627 200	207 442 000
EC	71 586 504	70 548 944	69 339 338	72 766 665	72 153 539
EFTA	88 924 000	91 424 500	89 849 500	84 275 900	79 388 000
G7	855 545 543	835 099 928	886 313 306	1 012 888 213	1 101 279 852
MERCOSUR	287 678 900	276 664 900	267 515 700	234 119 710	215 882 400
NAFTA	927 519 340	900 262 080	940 728 560	1 055 284 240	1 135 863 730
OECD	1 106 985 621	1 079 868 380	1 116 819 485	1 230 036 466	1 310 405 589
SADC	90 716 638	86 324 846	79 722 785	72 531 840	67 868 734

## Oil Sands (part of Petroleum)

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700
Developing C.	29 980 000	29 000 000	25 000 000	20 000 000	9 960 000
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
<b>Total</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>	<b>156 809 700</b>
Annual per capita income:					
High Income	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700
Upper Middle Income	29 980 000	29 000 000	25 000 000	20 000 000	9 960 000
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>	<b>156 809 700</b>
Political stability:					
Stable	118 594 300	120 572 400	0	0	0
Fair	0	0	133 202 900	145 081 000	146 849 700
Unstable	29 980 000	29 000 000	0	0	0
Extreme Unstable	0	0	25 000 000	20 000 000	9 960 000
<b>Total</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>	<b>156 809 700</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	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700
MERCOSUR	29 980 000	29 000 000	25 000 000	20 000 000	9 960 000
NAFTA	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700
OECD	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700
SADC	0	0	0	0	0

## Oil Shales

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394
Developing C.	0	0	0	0	0
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394
Annual per capita income:					
High Income	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394
Upper Middle Income	0	0	0	0	0
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394
Political stability:					
Stable	0	0	0	0	0
Fair	20 086 538	16 256 946	22 108 973	22 379 800	16 186 512
Unstable	420 100	425 100	426 000	414 580	402 882
Extreme Unstable	0	0	0	0	0
Total	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394
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	20 086 538	16 258 946	22 108 973	22 379 800	16 186 512
EFTA	0	0	0	0	0
G7	470 470	494 777	483 803	496 650	489 012
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	20 506 638	16 682 046	22 534 973	22 794 380	16 589 394
SADC	0	0	0	0	0

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

	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t
Development status:					
Developed C.	24 094	25 604	22 344	16 659	16 242
Developing C.	6 465	7 171	8 057	9 520	9 261
Least Developed C.	4 852	4 101	4 066	3 433	3 516
Transition C.	36 636	37 762	35 935	34 471	35 399
<b>Total</b>	<b>72 047</b>	<b>74 638</b>	<b>70 402</b>	<b>64 083</b>	<b>64 418</b>
Annual per capita income:					
High Income	24 003	25 545	22 344	16 659	16 242
Upper Middle Income	37 723	39 379	38 448	37 987	39 173
Lower Middle Income	5 469	5 613	5 544	6 004	5 487
Low Income	4 852	4 101	4 066	3 433	3 516
<b>Total</b>	<b>72 047</b>	<b>74 638</b>	<b>70 402</b>	<b>64 083</b>	<b>64 418</b>
Political stability:					
Stable	15 659	16 666	0	0	0
Fair	11 908	42 359	54 825	23 173	22 701
Unstable	43 271	14 375	10 472	36 034	37 204
Extreme Unstable	1 209	1 238	5 105	4 876	4 513
<b>Total</b>	<b>72 047</b>	<b>74 638</b>	<b>70 402</b>	<b>64 083</b>	<b>64 418</b>
Country groups and economic blocks:					
ACP	8 853	8 859	9 351	10 178	10 138
ASEAN	0	0	0	0	0
BRICS	6 541	6 353	6 463	6 377	6 182
CPE	1 906	1 906	2 223	2 223	2 223
EC	251	263	106	40	67
EFTA	0	0	0	0	0
G7	17 177	18 042	15 542	8 882	8 477
MERCOSUR	51	0	0	0	0
NAFTA	17 175	17 989	15 502	8 882	8 449
OECD	24 003	25 545	22 344	16 659	16 242
SADC	4 001	4 758	5 285	6 745	6 622



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

### 6.4.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	509 800	328 300	268 400	381 200	409 900	1e
Argentina	206 060	107 280	28 400	40 560	0	2n
Australia	500 993 637	531 075 350	548 297 062	562 136 693	568 964 594	1e
Austria	890 665	888 723	954 156	897 132	1 037 470	1e
Azerbaijan	53 590	10 710	0	0	0	1e
Bhutan	27 650	17 960	21 100	24 220	23 590	1e
Bolivia	14 180	1 710	22 230	41 560	45 830	1a
Bosnia-Herzegovina	1 082 630	893 420	827 170	704 050	739 600	1e
Brazil	275 607 200	267 983 700	289 089 904	287 611 275	255 272 650	1e
Canada	28 194 100	28 505 600	30 682 700	32 180 800	33 020 200	1e
Chile	9 147 839	9 008 873	9 549 327	8 942 638	8 427 224	1e
China	248 061 900	228 483 100	215 920 000	209 243 800	219 375 000	2b
Colombia	406 040	322 100	320 770	257 790	299 350	1e
Congo, Rep.			0	10 800	20 200	1e
Egypt	186 300	229 010	254 300	270 000	270 000	2n
Germany	71 900	74 500	82 900	82 900	94 100	1e
Guatemala	7 310	8 210	2 670	2 590	30	1e
India	98 687 200	121 395 000	125 716 600	129 599 200	152 600 000	3e
Indonesia	2 111 200	2 300 000	1 075 800	600 000	1 379 300	1a
Iran	25 797 898	21 623 000	21 884 000	24 700 000	28 305 000	1a
Kazakhstan	11 122 150	10 632 570	11 705 660	12 968 800	14 278 750	1e
Korea, North	1 255 200	1 300 000	1 365 000	1 306 500	1 144 700	1e
Korea, South	267 190	266 810	186 330	229 530	205 410	1e
Laos	140 850	69 040	150 000	59 500	282 180	1e
Liberia	2 717 700	843 100	962 900	2 794 300	2 674 800	1e
Malawi	0	2 280	3 000	1 540	1 800	3e
Malaysia	1 015 450	1 206 130	2 469 370	2 112 790	2 621 100	1e
Mauritania	7 544 600	8 624 200	7 678 500	6 961 700	7 927 700	1e
Mexico	8 077 160	8 454 390	7 027 520	8 412 810	10 331 270	1e
Mongolia	3 704 040	3 407 480	4 309 030	3 486 220	4 800 430	1e
Morocco	6 430	5 510	36 120	18 520	7 150	1e
Namibia	2 680	5 680	1 640	8 730	8 400	1e
Nepal		0	350	180	80	1e
New Zealand	1 852 360	2 027 560	2 324 640	2 100 000	1 915 000	1n
Nigeria	20 000	700	0	700	1 000	2n
Norway	2 252 200	1 425 000	992 700	1 129 900	1 069 700	1e
Pakistan	124 990	164 220	190 630	257 340	238 130	1e
Peru	7 320 810	7 663 120	8 806 450	9 533 870	10 120 007	1e
Philippines	64 300	10 300	0	0	0	1e
Russia	62 717 000	61 360 000	62 186 000	64 192 000	60 416 000	1e
Saudi Arabia	241 900	254 200	266 800	280 100	294 100	1e
Sierra Leone	1 521 830	3 814 410	3 194 930	0	0	1e
South Africa	47 323 600	43 196 310	48 808 920	48 277 430	47 064 410	1e



Sweden	17 096 800	18 206 400	18 741 000	18 405 000	19 367 200	1e
Thailand	10 220	0	85	0	10 950	1e
Tunisia	153 700	113 800	106 900	95 000	100 700	1e
Turkey	4 734 200	4 353 700	6 095 400	9 546 700	8 828 800	1e
Uganda	5 400	1 280	1 390	2 700	0	1e
Ukraine	42 817 200	40 240 600	38 767 600	38 751 300	40 451 100	1e
United States	29 043 000	26 334 000	30 177 000	31 185 000	29 547 000	1e
Uruguay	11 520	1 040	1 010	2 520	2 510	1e
Venezuela	7 615 100	5 070 000	4 615 000	2 017 500	2 062 800	1e
Vietnam	1 614 600	1 833 600	3 309 000	3 352 800	3 354 600	3e
<b>Total</b>	<b>1 454 451 279</b>	<b>1 464 143 976</b>	<b>1 509 478 364</b>	<b>1 525 218 188</b>	<b>1 539 411 815</b>	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Afghanistan	2 500	2 000	2 000	2 000	2 000	2n
Albania	284 100	317 500	351 500	497 100	488 700	1e
Brazil	204 321	166 259	212 503	219 724	199 256	1e
China	17 600	12 200	12 000	16 330	27 250	1e
Cuba	13 500	12 000	14 400	10 500	10 000	2n
Ethiopia			0	8 000	500	1e
Finland	457 100	469 140	411 060	466 750	502 050	1e
Greece			0	16 650	12 080	1a
India	1 335 560	1 728 270	1 609 010	1 864 070	1 819 200	3e
Iran	142 810	162 100	92 850	113 410	104 400	1a
Kazakhstan	1 992 400	1 989 500	2 193 500	2 378 200	2 458 800	1e
Madagascar	72 620	52 800	102 000	53 500	37 300	1e
Oman	179 680	232 820	181 090	353 630	243 100	1e
Pakistan	40 700	27 730	42 100	38 970	57 570	1e
Papua New Guinea	45 000	23 400	34 470	40 290	58 700	1n
Philippines	6 200	10 300	8 340	18 000	14 570	1e
Russia	226 400	186 000	195 200	202 800	237 600	1e
South Africa	6 660 500	6 254 600	7 073 400	7 524 700	7 384 000	1e
Sudan	7 270	1 850	15 360	12 960	8 150	3e
Turkey	1 464 330	1 070 030	1 384 700	1 146 600	1 528 700	1e
Zimbabwe	93 750	128 220	309 980	402 600	720 330	1e
<b>Total</b>	<b>13 246 341</b>	<b>12 846 719</b>	<b>14 245 463</b>	<b>15 386 784</b>	<b>15 914 256</b>	

## Cobalt

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	5 930	5 183	5 034	4 878	5 746	1e
Botswana	316	281	0	0	0	1e
Brazil	2 771	852	185	4	0	1e
Canada	7 489	7 148	6 058	5 608	5 132	1e
China	10 093	9 293	8 300	3 100	3 000	2n
Congo, D.R.	84 400	69 038	82 461	111 713	78 664	1e
Cuba	4 793	5 514	5 407	5 300	5 200	2q
Finland	2 119	2 260	2 300	1 377	1 454	1e
Indonesia	350	350	350	350	350	2q

Madagascar	3 920	3 654	2 967	2 887	2 947	1n
Morocco	1 722	2 081	1 924	1 806	2 397	1n
New Caledonia	2 391	3 188	2 780	2 104	1 703	1e
Papua New Guinea	2 505	2 187	3 307	3 275	2 915	1n
Philippines	3 900	3 500	3 700	3 600	3 750	1n
Russia	8 600	8 600	8 900	8 700	8 700	1e
South Africa	1 362	1 101	1 065	1 007	1 027	1e
United States	760	690	640	480	500	1e
Vietnam	277	134	0	0	0	1n
Zambia	2 979	5 276	2 649	1 766	1 271	1e
Zimbabwe	355	409	445	403	402	1e
Total	147 032	130 739	138 472	158 358	125 158	

## Manganese

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	3 250 300	2 388 500	2 879 010	3 514 320	3 259 200	1n
Bolivia			0	110	3 660	1e
Bosnia-Herzegovina	3 200	1 000	0	0	0	1e
Brazil	1 226 458	1 198 709	1 343 967	1 280 825	1 452 034	1e
Bulgaria	13 470	12 050	574	0	0	2n
China	2 484 000	2 150 000	2 508 000	1 180 000	1 350 000	1e
Congo, D.R.			0	5 360	1 780	1e
Cote d'Ivoire	105 300	90 900	204 700	319 200	472 700	1a
Egypt	5 000	0	0	0	0	2n
Gabon	1 876 300	1 573 100	2 265 800	2 874 600	3 158 100	1n
Georgia	66 000	48 400	90 000	95 000	95 000	2n
Ghana	451 020	706 390	1 051 250	1 593 110	1 884 050	1e
Hungary	15 330	4 840	0	0	0	1a
India	728 970	801 600	860 400	920 230	970 000	3e
Indonesia	27 000	24 500	24 000	24 000	24 000	2n
Iran	69 760	33 110	33 915	45 595	50 240	1a
Kazakhstan	328 400	323 300	294 900	288 300	230 700	1e
Kenya		0	2 700	7 000	16 600	1n
Malaysia	216 420	294 300	514 950	530 340	474 910	1e
Mexico	217 466	215 782	218 510	209 023	232 957	1e
Morocco	35 850	34 170	49 500	39 770	35 600	1e
Myanmar	28 000	116 000	136 600	207 500	429 000	1n
Namibia	10 110	5 050	9 820	8 800	14 660	1e
Nigeria	510	20 330	13 550	22 880	1 000	1n
Oman	3 950	3 660	3 400	11 170	8 250	1e
Pakistan	1 710	20	430	50	390	1a
Peru	0	1 194	1 133	17 203	18 814	1e
Romania	4 200	1 550	5 660	5 150	9 290	1e
Senegal	3 000	600	1 520	3 330	1 880	1a
South Africa	4 186 600	4 028 100	5 501 400	5 641 200	6 456 400	1e
Sudan	12 560	3 920	4 000	4 000	1 000	2n
Thailand	4 320	4 390	3 850	1 920	2 305	1e
Turkey	30 500	16 400	27 300	29 900	39 900	1e
Ukraine	546 600	491 500	650 500	682 700	686 100	1e
Vietnam	50 000	29 000	28 650	29 400	32 000	2n
Zambia	5 000	27 500	39 900	37 800	11 970	1a
Total	16 007 304	14 649 865	18 769 889	19 629 786	21 424 490	

## Molybdenum

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	869	479	651	364	0	1e
Armenia	5 131	5 771	5 038	5 422	7 137	1e
Canada	2 505	2 783	4 765	5 048	3 940	1e
Chile	52 579	55 647	62 746	60 705	54 759	1e
China	135 150	112 590	117 090	98 420	104 440	1e
Iran	3 337	3 340	4 280	3 690	4 160	1a
Kazakhstan	430	1 941	35	149	258	1n
Korea, North	370	440	480	560	530	1e
Korea, South	258	0	0	1	266	1e
Mexico	11 327	11 896	13 985	20 265	21 694	1e
Mongolia	2 557	2 432	2 640	2 580	2 490	1e
Norway	1	1	0	0	1	2e
Peru	20 153	25 757	28 141	28 034	30 441	1e
Russia	3 254	3 359	3 227	2 262	1 989	1e
Turkey	1 335	0	900	450	0	1e
United States	47 400	36 200	40 700	41 400	43 600	1e
Uzbekistan	570	620	700	750	800	1n
<b>Total</b>	<b>287 226</b>	<b>263 256</b>	<b>285 378</b>	<b>270 100</b>	<b>276 505</b>	

## Nickel

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Albania	7 460	4 400	5 760	4 050	2 960	1e
Australia	225 227	203 135	185 466	160 022	158 751	1e
Botswana	16 789	16 878	0	0	0	1e
Brazil	89 302	78 626	68 803	65 254	55 744	1e
Canada	234 519	235 034	214 302	185 962	180 900	1e
China	101 400	100 200	102 348	98 963	104 674	1e
Colombia	36 671	37 092	40 606	43 056	40 571	1e
Cote d'Ivoire		0	400	12 300	9 100	1a
Cuba	50 000	48 000	49 300	49 000	48 900	2n
Dominican Republic	0	9 913	15 632	19 214	28 450	1e
Finland	9 383	20 654	34 641	43 572	38 530	1e
Greece	21 060	22 030	21 090	19 980	17 240	1a
Guatemala	38 500	36 900	54 500	48 400	55 000	2n
Indonesia	129 600	198 900	363 000	651 600	1 036 200	1a
Kosovo	6 650	4 310	7 120	4 790	3 360	1e
Madagascar	45 075	42 024	34 123	33 204	33 887	1n
Morocco	0	0	196	126	131	1e
Myanmar	26 400	25 000	29 250	17 750	14 200	1n
New Caledonia	193 199	204 207	215 382	216 225	209 549	1e
Norway	300	230	190	170	135	2e
Papua New Guinea	25 582	22 234	34 664	35 354	33 091	1n
Philippines	415 021	300 506	339 377	344 966	323 325	1e
Poland	840	770	720	660	755	1e
Russia	261 000	223 000	223 000	238 800	233 900	1e
South Africa	56 689	48 994	48 463	43 236	43 443	1e
Spain	7 208	0	0	0	0	1e
Turkey	8 640	9 340	14 770	13 560	4 740	1e
United States	27 200	24 100	22 100	17 600	13 500	1e
Venezuela	3 707	0	0	0	0	1e

Vietnam	8 607	4 272	0	0	0	1n
Zambia				0	1 000	1e
Zimbabwe	16 109	17 743	16 594	17 850	16 918	1e
Total	2 062 138	1 938 492	2 141 797	2 385 664	2 708 954	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Brazil	80 465	80 669	83 166	99 554	127 220	1e
Burundi	13	8	18	5	5	1e
Canada	5 385	6 099	6 981	7 700	6 800	2b
China	30	30	30	20	20	2n
Congo, D.R.	694	797	717	607	415	1e
Ethiopia	20	28	25	28	14	1e
Mozambique	5	7	10	12	11	1e
Nigeria	29	104	122	181	150	2n
Russia	628	628	648	669	659	1n
Rwanda	248	190	260	245	200	1e
Uganda		4	3	2	2	1e
Total	87 517	88 564	91 980	109 023	135 496	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	20	10	20	40	80	1e
Bolivia	1	0	3	18	10	1a
Brazil	268	234	270	150	250	1e
Burundi	19	11	26	8	8	1e
China	110	120	110	100	135	2n
Congo, D.R.	736	845	761	644	440	1e
Ethiopia	75	101	90	104	50	1e
Malaysia	9	8	6	27	10	2n
Mozambique	28	41	57	66	59	1e
Nigeria	72	66	480	230	200	2n
Russia	32	49	45	44	32	1n
Rwanda	380	290	395	380	310	1e
Total	1 750	1 775	2 263	1 811	1 584	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	1 053 300	1 070 000	993 000	875 250	780 465	1e
Brazil	45 330	37 660	48 000	38 000	81 650	1e
Burundi				0	42 900	1e

Canada	595 000	700 000	750 000	620 000	640 000	2n
China	1 067 200	1 196 000	1 242 000	1 932 000	2 306 900	1e
India	360 300	341 400	167 800	156 800	159 900	2n
Iran	38 290	3 340	30 630	30 000	4 880	1a
Kazakhstan	12 770	66 600	65 000	65 000	60 000	2n
Kenya	319 750	339 480	345 560	340 150	262 660	1n
Korea, South	112 250	91 800	122 670	117 250	162 790	1e
Madagascar	102 700	152 100	230 700	214 000	258 800	1e
Malaysia	3 590	5 990	8 500	12 600	6 930	1e
Mozambique	425 600	504 200	557 700	535 700	498 900	1n
Norway	277 340	260 000	238 200	176 370	211 280	1e
Russia	88 850	18 880	2 900	3 000	3 100	1e
Senegal	240 270	238 120	280 320	287 940	281 030	1a
Sierra Leone	140 420	156 570	190 480	145 400	165 180	1n
South Africa	1 050 000	950 000	1 090 000	1 000 000	970 000	2n
Sri Lanka	23 410	16 510	30 630	35 670	25 940	1e
Thailand		0	4	23	64	1e
Turkey	4 750	4 750	6 370	6 175	6 130	1e
Ukraine	375 480	339 800	430 300	518 950	564 050	1e
United States	110 000	55 000	66 000	100 000	100 000	1e
Vietnam	123 600	109 620	117 160	122 250	140 970	3e
Total	6 570 200	6 657 820	7 013 924	7 332 528	7 734 519	

### Tungsten (W-Content)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	348	108	5	0	0	1e
Austria	861	954	975	936	892	1e
Bolivia	1 461	1 109	1 015	1 366	1 064	1a
Brazil	432	323	411	300	431	1e
Burundi	11	77	144	108	150	1e
Canada	1 815	0	0	0	0	1e
China	72 200	72 000	71 800	68 000	72 200	1e
Colombia	3	2	0	0	0	1e
Congo, D.R.	55	79	130	160	210	1e
Korea, North	72	50	310	1 410	1 130	1e
Korea, South	8	14	0	0	0	1e
Kyrgyzstan	80	0	0	0	0	1e
Mexico				45	15	1e
Mongolia	877	755	523	430	370	1e
Myanmar	250	170	330	190	130	1a
Nigeria	27	8	12	66	15	1n
Peru	110	154	0	0	0	1e
Portugal	474	549	669	716	518	1a
Russia	2 642	2 707	2 144	2 234	2 433	1e
Rwanda	1 060	1 020	905	1 155	1 120	1e
Spain	835	699	564	856	341	1n
Thailand	31	29	43	65	37	1e
Uganda	36	41	62	188	144	1e
United Kingdom	155	732	1 086	890	0	1n
Uzbekistan	110	80	103	97	100	2n
Vietnam	4 063	5 041	5 141	4 881	4 816	1n
Zimbabwe		13	3	16	37	1e
Total	88 016	86 714	86 375	84 109	86 153	

## Vanadium (V-Content)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Brazil	4 988	6 544	6 798	6 562	7 045	1n
China	42 000	45 000	48 500	53 200	56 000	1e
India	1 124	1 125	0	442	450	1e
Kazakhstan	1 000	0	0	0	0	1e
Russia	16 196	16 886	18 636	17 052	18 380	1n
South Africa	17 455	15 877	7 958	7 691	7 964	1n
United States				0	460	1e
<b>Total</b>	<b>82 763</b>	<b>85 432</b>	<b>81 892</b>	<b>84 947</b>	<b>90 299</b>	

## 6.4.2 Non-Ferrous Metals

### Aluminium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	431 901	428 957	431 239	439 600	438 434	1e
Australia	1 645 963	1 633 904	1 487 555	1 574 240	1 569 591	1e
Azerbaijan	53 300	36 800	28 500	45 390	32 700	1e
Bahrain	960 643	971 420	981 016	1 011 101	1 365 005	1n
Bosnia-Herzegovina	118 253	106 649	125 536	131 508	67 690	1e
Brazil	772 200	792 700	801 700	659 000	650 200	1e
Cameroon	88 273	84 689	68 598	65 900	51 700	1e
Canada	2 880 037	3 208 888	3 212 124	2 924 389	2 853 771	1e
China	31 518 000	31 775 400	33 289 600	36 831 000	35 043 600	1e
Egypt	290 000	297 000	298 000	267 100	290 000	1n
France	415 000	424 640	426 730	390 000	401 850	1e
Germany	541 400	546 800	550 000	528 900	507 934	1e
Ghana	33 800	33 010	40 500	42 867	45 150	1e
Greece	179 420	181 680	181 700	187 465	186 903	1a
Iceland	724 705	700 080	759 988	731 478	682 616	1e
India	2 354 949	2 896 629	3 400 618	3 696 181	3 635 089	1e
Indonesia	257 149	245 483	215 192	219 306	233 457	1n
Iran	353 000	341 000	337 608	304 800	258 166	1n
Kazakhstan	219 000	235 566	254 000	258 400	264 895	1e
Malaysia	440 000	620 000	760 000	760 000	760 000	1n
Montenegro	42 499	38 915	39 379	40 163	36 552	1e
Mozambique	558 390	571 125	577 495	571 125	564 756	1n
Netherlands	27 700	36 300	29 300	41 300	81 100	1q
New Zealand	335 292	338 556	336 740	340 678	351 481	1n
Norway	1 227 787	1 247 000	1 253 000	1 295 000	1 337 500	1n
Oman	377 186	386 395	252 714	379 775	390 515	1n
Qatar	610 000	612 000	620 000	616 000	627 400	1n
Romania	271 356	272 507	282 074	282 810	280 326	1n
Russia	3 529 000	3 561 000	3 583 000	3 631 000	3 637 000	1n
Saudi Arabia	839 000	871 000	916 000	932 209	967 000	1n
Slovakia	171 328	173 643	173 492	173 721	174 794	1n
Slovenia	83 775	84 365	84 424	80 511	68 255	1n
South Africa	695 000	701 000	716 000	714 000	717 000	1n
Spain	360 000	360 000	360 000	350 000	230 000	2q

Sweden	116 000	124 000	123 000	125 000	120 000	1n
Tajikistan	139 123	129 291	103 147	95 800	100 800	1e
Turkey	46 265	78 807	75 523	73 291	78 100	1n
United Arab Emirates	2 397 000	2 471 000	2 600 000	2 640 000	2 579 000	1n
United Kingdom	48 000	46 000	46 500	44 400	39 400	1q
United States	1 586 518	818 430	740 884	896 652	1 126 032	1e
Venezuela	119 511	145 000	136 000	64 700	10 000	1n
<b>Total</b>	<b>57 857 723</b>	<b>58 627 629</b>	<b>60 698 876</b>	<b>64 456 760</b>	<b>62 855 762</b>	

## Antimony

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	4 213	4 285	3 131	2 173	2 032	1n
Bolivia	3 843	2 669	2 881	3 110	2 747	1a
Canada	1	0	1	5	5	1e
China	111 400	103 620	97 683	70 396	60 229	1e
Ecuador	40	15	260	0	0	1e
Guatemala	0	25	0	0	150	1e
Honduras	14	0	0	20	15	2n
Iran	216	2 767	620	1 645	330	1a
Kazakhstan	979	573	350	150	0	1n
Kyrgyzstan	1 200	1 880	1 380	680	20	1n
Laos	1 166	242	320	330	70	1e
Mexico	90	166	240	300	289	1n
Myanmar	3 000	2 000	4 500	2 000	4 500	1n
Pakistan	114	21	15	20	0	1e
Peru	250	0	0	0	0	1e
Russia	7 420	6 620	6 120	30 828	21 671	1e
South Africa	302	350	0	0	0	1e
Tajikistan	13 460	26 970	26 370	28 890	29 300	1e
Thailand	0	32	0	0	0	1e
Turkey	1 950	2 750	4 840	3 570	3 815	1e
Vietnam	220	230	230	245	305	3e
<b>Total</b>	<b>149 878</b>	<b>155 215</b>	<b>148 941</b>	<b>144 362</b>	<b>125 478</b>	

## Arsenic

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Belgium	1 000	1 000	1 000	1 000	1 000	2b
Bolivia	38	38	20	238	126	1a
China	25 000	25 000	25 000	24 000	24 000	2b
Iran	110	0	400	0	0	1a
Japan	45	45	45	45	45	2b
Morocco	7 567	6 122	6 879	5 578	5 055	1e
Namibia	2 000	1 960	700	0	0	1n
Peru	0	23 252	22 403	20 376	24 915	1e
Russia	1 500	1 500	1 500	1 500	1 500	2b
<b>Total</b>	<b>37 260</b>	<b>58 917</b>	<b>57 947</b>	<b>52 737</b>	<b>56 641</b>	

## Bauxite (crude ore)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	80 909 261	83 517 148	89 420 589	95 947 593	105 543 787	1e
Bosnia-Herzegovina	787 409	738 609	740 384	760 244	1 043 343	1e
Brazil	37 057 000	39 244 200	38 072 100	32 377 000	31 937 900	1n
China	60 787 600	66 157 700	68 390 000	79 000 000	75 000 000	1e
Colombia	861	693	2 400	9 043	13 533	1e
Croatia	11 897	9 780	12 215	11 776	14 342	1e
Dominican Republic	1 724 162	7 318	0	0	0	1e
Fiji	172 336	58 050	118 540	57 960	0	1e
France	70 000	70 000	70 000	70 000	70 000	2e
Ghana	1 014 605	1 143 676	1 476 966	1 011 302	1 116 334	1e
Greece	1 831 660	1 847 700	1 927 150	1 559 359	1 379 123	1a
Guinea	20 692 000	32 423 932	51 701 564	59 573 707	70 173 326	1e
Guyana	1 526 467	1 479 090	1 459 223	1 926 053	1 919 747	1e
Hungary	8 300	16 710	1 300	4 200	0	1a
India	28 123 789	24 745 487	22 786 106	23 689 619	21 823 793	1e
Indonesia	471 867	494 722	1 733 380	11 023 850	16 592 740	1a
Iran	773 700	765 616	804 510	866 683	828 788	1a
Jamaica	9 628 818	8 540 131	8 244 628	10 058 228	9 022 286	1e
Kazakhstan	4 682 600	4 801 300	4 846 100	6 104 200	4 118 400	1e
Malaysia	27 900 000	6 700 000	830 000	589 685	900 561	1e
Mexico	0	96 000	0	0	0	1e
Montenegro	50 369	667 259	927 847	468 164	774 725	1e
Mozambique	4 985	1 451	3 182	9 912	8 024	1e
Pakistan	24 689	57 024	75 375	145 189	94 149	1e
Russia	5 661 000	6 095 000	5 845 000	7 057 000	6 641 000	1e
Saudi Arabia	3 022 000	4 768 000	4 125 000	4 906 000	5 127 000	1e
Sierra Leone	1 334 046	1 368 531	1 787 716	1 938 461	1 883 863	1n
Solomon Islands	278 400	234 500	1 523 900	1 646 200	1 234 030	1e
Suriname	1 865 100	0	0	0	0	1e
Tanzania	204	73	12	7	0	1e
Turkey	1 050 000	989 156	1 719 144	678 138	2 255 480	1e
United States	483 700	272 900	352 100	399 700	154 900	1s
Venezuela	991 810	340 000	242 000	92 000	50 000	2q
Vietnam	1 436 500	1 606 100	2 565 000	3 569 700	3 700 000	1n
Total	294 377 135	289 257 856	311 803 431	345 550 973	363 421 174	

## Beryllium (concentrates)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Brazil	100	125	75	70	70	2n
China	1 200	1 250	1 250	1 250	1 750	2n
Madagascar	140	140	140	140	30	2n
Mozambique	312	181	53	416	0	1e
Nigeria	56	0	0	35	25	2n
Rwanda	23	30	30	30	20	2n
United States	5 100	3 870	3 760	4 170	4 050	1n
Zambia	7	5	4	7	7	1n
Total	6 938	5 601	5 312	6 118	5 952	



## Bismuth

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Armenia	2	1	1	0	0	1e
Bolivia	20	57	8	39	0	1a
Canada	2	3	4	5	5	1e
China	7 250	7 100	6 800	7 000	7 000	2n
Japan	632	428	525	571	540	1e
Kazakhstan	140	260	200	159	200	2n
Mexico	601	539	513	313	291	1e
Peru	0	188	123	145	73	1e
Russia	40	30	30	30	30	2n
Uzbekistan	2	0	0	0	2	2n
Vietnam	3 000	2 013	2 403	2 639	917	1n
Total	11 689	10 619	10 607	10 901	9 058	

## Cadmium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	107	91	96	74	45	1e
Brazil	200	200	180	300	450	1n
Bulgaria	344	362	333	313	315	1e
Canada	1 159	2 305	1 802	1 857	1 803	1e
China	8 162	8 222	8 411	8 450	8 450	2n
Germany	370	652	730	520	620	1n
India	0	35	47	0	0	1e
Japan	1 959	1 988	2 142	1 980	2 000	1e
Kazakhstan	1 459	2 682	2 690	850	1 200	2n
Korea, North	200	200	200	200	150	2n
Korea, South	3 620	4 595	4 960	5 100	3 950	1e
Mexico	1 283	1 244	1 142	1 307	952	1e
Netherlands	620	620	620	600	900	2n
Norway	310	335	416	380	370	2e
Peru	757	820	797	765	772	1e
Poland	383	200	309	305	220	2n
Russia	1 186	1 100	1 176	1 201	1 000	1n
United States	500	400	400	300	250	2n
Uzbekistan	707	290	306	237	250	2n
Total	23 326	26 341	26 757	24 739	23 697	

## Copper

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Albania	2 190	2 020	0	3 780	5 900	1e
Argentina	61 765	81 902	33 303	17 435	0	1e
Armenia	51 765	95 080	95 793	68 928	91 214	1e
Australia	995 881	947 555	849 121	910 896	934 055	1e
Azerbaijan	969	1 947	2 063	1 650	2 213	1e

Bolivia	9 479	8 718	7 219	5 216	4 478	1a
Botswana	22 284	13 120	1 239	1 462	0	1e
Brazil	350 940	338 921	384 542	385 762	363 268	1e
Bulgaria	112 600	111 870	110 290	112 850	114 240	1e
Canada	714 647	695 508	597 194	548 011	560 800	1e
Chile	5 772 100	5 552 600	5 503 500	5 831 600	5 787 400	1e
China	1 706 400	1 851 000	1 706 400	1 618 480	1 683 450	1e
Colombia	5 463	8 493	9 356	9 918	7 641	1e
Congo, D.R.	1 039 007	1 023 687	1 094 638	1 239 059	1 461 124	1e
Congo, Rep.		0	15 979	18 018	18 760	1e
Cyprus	2 121	1 754	1 293	908	703	1a
Dominican Republic	7 324	9 725	9 618	8 588	6 047	1e
Ecuador	1 400	40 200	8 200	42 200	9 900	1e
Eritrea	61 600	25 300	7 900	17 300	16 008	1n
Finland	41 805	47 488	53 144	46 755	32 861	1e
Georgia	11 700	12 200	14 700	15 650	5 500	1e
Germany	42	41	63	51	40	2e
India	34 220	29 670	31 550	31 180	29 550	1e
Indonesia	586 914	727 959	621 979	651 132	351 080	1n
Iran	254 709	282 500	295 653	316 380	308 270	1n
Kazakhstan	467 500	471 500	540 700	632 550	604 470	1e
Korea, North	15 000	20 000	15 000	15 000	2 000	2q
Korea, South		117	7	0	0	1e
Kyrgyzstan	3 100	8 638	8 956	8 813	8 640	1n
Laos	167 702	167 679	153 304	154 948	140 935	1n
Mauritania	45 001	32 818	28 791	28 137	29 620	1e
Mexico	594 451	793 982	742 246	696 580	713 704	1e
Mongolia	335 850	374 260	314 920	309 750	292 110	1e
Morocco	26 850	31 810	35 420	32 430	30 720	1e
Myanmar	69 850	94 390	126 930	179 310	219 200	1n
Namibia	13 913	16 391	15 466	15 177	14 940	1e
North Macedonia	11 102	10 429	8 966	7 718	7 231	1n
Oman	8 650	0	0	0	0	1e
Pakistan	13 056	14 136	10 052	12 538	13 049	1n
Panama				0	147 480	1e
Papua New Guinea	45 185	80 022	105 448	96 277	99 432	1n
Peru	1 700 817	2 353 859	2 445 585	2 437 035	2 455 440	1e
Philippines	83 835	83 649	68 156	69 933	71 892	1e
Poland	425 870	424 276	419 300	401 300	398 900	1n
Portugal	83 081	74 352	63 812	49 064	41 553	1a
Romania	7 710	8 390	8 160	8 555	9 180	1n
Russia	711 400	702 300	761 100	870 500	812 400	1e
Saudi Arabia	12 340	27 840	43 150	59 200	68 580	1n
Serbia	31 601	34 625	45 115	44 096	43 550	1n
Slovakia	58	39	32	21	17	1e
South Africa	77 360	65 257	65 532	46 900	52 501	1e
Spain	129 788	172 522	196 353	187 714	170 700	1q
Sweden	75 113	79 247	104 594	106 140	99 332	1e
Tajikistan	1 390	2 050	6 060	8 490	8 500	1e
Tanzania	16 800	17 400	15 800	10 000	14 187	1e
Turkey	108 000	107 300	85 200	87 000	73 300	1n
United States	1 380 000	1 430 000	1 260 000	1 220 000	1 260 000	1e
Uzbekistan	100 000	100 000	100 000	117 000	147 000	1e
Vietnam	24 420	22 300	21 100	25 300	29 620	1n
Zambia	711 515	774 290	799 329	857 847	789 942	1e
Zimbabwe	8 218	9 101	8 839	9 077	8 731	1e
Total	19 353 851	20 514 227	20 078 160	20 707 609	20 673 358	

## Gallium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
China	254	171	290	305	356	1e
Germany	11	4	0	0	0	1e
Japan	5	3	3	3	3	2n
Korea, South	2	3	3	3	2	1b
Russia	4	4	5	6	8	1n
Ukraine	9	9	9	6	5	2n
Total	285	194	310	323	374	

## Germanium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
China	114	110	87	95	85	1e
Finland	13	0	0	0	0	1e
Japan	2	2	2	2	2	2n
Russia	6	6	6	6	5	2n
Ukraine	1	1	1	1	1	2n
United States	3	3	2	2	2	2n
Total	139	122	98	106	95	

## Indium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Belgium	20	20	20	20	20	2b
Brazil	5	5	5	0	0	2n
Canada	70	71	67	58	61	1b
China	387	357	355	395	490	1e
France	41	0	30	43	19	1n
Germany	10	10	10	0	0	2n
Japan	70	70	70	70	70	2b
Korea, South	195	210	215	235	225	1b
Peru	9	5	5	5	5	2n
Russia	40	5	5	4	6	1n
Total	847	753	782	830	896	

## Lead

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	29 834	28 016	40 135	28 260	29 768	1e
Australia	653 488	441 338	395 190	446 571	509 198	1e
Bolivia	75 273	89 906	113 286	112 140	88 002	1a
Bosnia-Herzegovina	6 660	6 600	6 740	7 070	7 470	1n
Brazil	9 441	9 015	6 959	7 277	5 715	1n
Bulgaria	18 370	22 040	22 860	24 200	25 920	1e
Burkina Faso	1 000	0	0	0	0	1e
Canada	3 809	12 653	20 477	17 874	22 608	1e
Chile	2 979	1 110	1 562	712	7	1e
China	2 339 000	2 227 500	2 080 000	2 033 000	2 097 000	1e
Congo, D.R.	653	101	0	0	0	1e
Cuba		0	1 500	25 380	36 000	1n
Finland				0	937	1e
Greece	10 074	11 283	12 075	15 345	14 818	1n
Guatemala	10 153	10 000	4 200	264	377	1e
Honduras	9 800	4 000	6 761	9 893	12 308	1a
India	143 710	150 860	172 720	207 070	202 960	1e
Indonesia	5 470	5 280	7 635	11 380	10 820	1n
Iran	32 500	36 900	44 900	49 600	72 500	2e
Ireland	31 300	19 600	17 100	16 712	16 053	1n
Kazakhstan	40 700	70 500	111 200	86 500	55 700	1e
Korea, North	32 300	36 800	31 600	35 000	25 000	2q
Korea, South	2 920	2 840	3 760	2 340	1 930	1e
Kosovo	5 400	6 530	5 100	4 700	4 000	1q
Laos	190	510	660	330	250	1n
Mexico	263 772	246 755	243 022	230 869	372 106	1e
Mongolia	200	4 720	7 390	11 320	13 500	1e
Montenegro	2 170	2 500	3 050	3 100	3 480	1n
Morocco	32 160	28 670	38 040	30 360	32 770	1e
Myanmar	13 600	21 600	14 890	24 930	35 090	1n
Namibia	9 700	6 800	5 805	4 291	6 320	1e
Nigeria	16 000	14 500	24 260	17 900	23 550	1n
North Macedonia	37 920	31 030	39 850	41 900	43 490	1e
Pakistan	136	1 196	3 050	4 820	8 090	1n
Peru	315 525	314 422	306 784	289 123	308 116	1e
Poland	49 000	43 060	39 000	40 210	48 510	1e
Portugal	3 077	4 126	5 164	19 440	27 852	1a
Romania	200	120	720	1 200	520	1e
Russia	156 000	204 300	204 700	206 100	207 900	1e
Serbia	13 610	13 610	13 890	13 810	13 930	1e
Slovakia	226	133	147	114	111	1e
South Africa	34 573	39 344	48 150	35 118	42 936	1e
Spain	1 598	4 946	4 555	20 150	28 000	1n
Sweden	79 354	75 830	71 112	64 751	68 635	1e
Tajikistan	40 130	57 360	61 090	52 990	65 570	1e
Turkey	75 900	64 300	74 990	75 990	71 480	1n
United Kingdom	0	100	100	100	200	3e
United States	370 000	346 000	310 000	280 000	274 000	1e
Uzbekistan	3 000	2 000	2 000	5 000	20 000	2n
Vietnam	1 900	800	4 500	14 500	12 500	1n
Total	4 984 775	4 721 604	4 632 679	4 629 704	4 967 997	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	7 860	12 200	12 360	13 810	13 670	1e
Australia	24 140	29 640	98 260	114 920	103 000	1n
Bolivia	0	10	20	10	160	1a
Brazil	308	440	533	600	2 390	1e
Canada		0	66	8 750	1 200	1n
Chile	22 500	31 240	32 520	38 850	47 770	1e
China	4 350	6 000	14 700	15 300	16 600	1e
Namibia			0	600	0	1e
Nigeria			0	50	50	2n
Portugal	204	307	604	914	710	1e
United States	1 820	1 800	1 420	1 500	1 400	2n
Zimbabwe	1 405	2 030	1 850	3 160	2 650	1e
<b>Total</b>	<b>62 587</b>	<b>83 667</b>	<b>162 333</b>	<b>198 464</b>	<b>189 600</b>	

## Mercury

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	59	135	54	50	50	2n
Chile	14	2	5	3	0	2n
China	2 800	3 433	1 949	2 303	2 232	1e
Iran	14	2	3	0	0	2n
Kyrgyzstan	20	50	10	88	20	2n
Mexico	307	267	200	230	0	1e
Morocco	20	20	10	5	5	2n
Russia	50	50	50	50	50	2n
Tajikistan	96	120	100	120	80	2n
United States	15	15	15	15	15	2n
<b>Total</b>	<b>3 395</b>	<b>4 094</b>	<b>2 396</b>	<b>2 864</b>	<b>2 452</b>	

## Rare Earth Minerals (REO-Content)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	10 916	13 872	17 264	18 556	17 613	1n
Brazil	1 040	2 900	1 700	1 100	600	1e
Burundi			31	631	68	1e
China	105 000	105 000	105 000	120 000	132 000	1e
India	956	2 265	2 724	4 215	4 200	2n
Malaysia	565	1 876	302	86	114	1e
Myanmar	230	2 730	5 000	20 400	17 100	1e
Russia	2 312	3 063	2 500	2 596	2 620	1n
United States	3 678	0	0	14 000	28 000	1e
<b>Total</b>	<b>124 697</b>	<b>131 706</b>	<b>134 521</b>	<b>181 584</b>	<b>202 315</b>	

## Rhenium

Country	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg	Rem
Armenia	104	405	375	405	450	2n
Chile	22 535	22 542	20 451	26 052	24 003	1n
China	2 400	2 400	2 500	2 500	2 500	2b
Kazakhstan	3 306	6 700	2 600	1 600	1 000	2n
Poland	6 346	6 443	7 564	6 290	5 770	1e
Russia	1 500	1 500	1 500	1 000	1 000	2n
United States	7 900	8 440	8 200	8 220	8 360	1e
Uzbekistan	1 000	660	530	500	800	1e
<b>Total</b>	<b>45 091</b>	<b>49 090</b>	<b>43 720</b>	<b>46 567</b>	<b>43 883</b>	

## Selenium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Armenia	1	1	1	0	0	1e
Belgium	200	200	200	200	200	2b
Canada	156	175	72	85	57	1e
China	729	772	720	930	1 250	1e
Finland	93	104	100	109	115	1e
Germany	660	700	300	300	300	2b
India	17	17	17	17	17	2n
Japan	773	752	792	768	740	1e
Kazakhstan	13	13	40	10	10	2n
Mexico	99	121	112	107	127	1e
Peru	40	45	50	55	60	1n
Philippines	70	90	100	100	100	2n
Poland	87	82	74	66	76	1e
Russia	180	197	194	185	193	1n
Serbia	17	18	27	28	20	1n
Sweden	30	60	90	40	20	2n
United States	90	122	116	152	160	2n
Uzbekistan	20	10	25	28	30	1e
<b>Total</b>	<b>3 275</b>	<b>3 479</b>	<b>3 030</b>	<b>3 180</b>	<b>3 475</b>	

## Tellurium

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Bulgaria	4	4	5	4	3	1e
Canada	10	18	18	25	40	2b
China	277	279	470	480	380	1e
Japan	37	33	38	58	50	1e
Russia	35	40	44	35	38	1n

Sweden	33	39	35	45	41	1e
United States	50	50	0	0	50	2n
Uzbekistan	3	3	3	2	2	1e
Total	449	466	613	649	604	

## Tin

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	7 158	6 635	7 402	6 871	7 738	1e
Bolivia	20 135	17 460	18 386	17 251	17 194	1a
Brazil	20 010	15 183	17 081	17 591	14 867	1e
Burundi	55	51	123	122	143	1e
China	110 200	91 610	74 800	87 070	85 840	1e
Congo, D.R.	4 567	6 503	10 391	8 950	10 990	1e
India	10	9	13	16	12	1e
Indonesia	70 310	62 877	78 070	82 809	76 390	1a
Laos	461	1 005	975	430	530	1e
Malaysia	4 159	4 158	4 819	3 868	3 611	1e
Mongolia	41	25	20	25	20	1e
Myanmar	58 000	61 400	67 300	54 500	38 900	1n
Namibia				0	7	1e
Nigeria	2 298	3 443	8 260	7 850	6 900	1n
Peru	19 511	18 789	17 790	18 601	19 853	1e
Portugal	42	54	81	111	108	1a
Russia	578	627	1 011	1 531	2 471	1e
Rwanda	2 770	2 560	3 430	3 405	2 685	1e
Spain	0	7	24	81	147	1q
Tanzania	134	104	68	6	18	1e
Thailand	45	58	341	47	46	1e
Uganda	135	62	66	53	15	1e
United Kingdom	16	144	255	220	0	1n
Vietnam	4 399	4 468	4 950	5 470	6 031	1q
Total	325 034	297 232	315 656	316 878	294 516	

## Zinc

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	50	330	350	500	500	2q
Argentina	30 498	22 792	23 392	22 050	14 877	1e
Armenia	7 111	4 960	6 070	6 946	7 162	1e
Australia	1 610 004	884 826	852 164	1 146 781	1 337 321	1e
Bolivia	442 154	486 955	527 206	519 630	527 521	1a
Bosnia-Herzegovina	8 840	8 840	9 180	9 350	9 160	1n
Brazil	156 926	158 197	156 348	167 249	163 394	1n
Bulgaria	16 390	18 790	19 250	20 390	21 830	1e
Burkina Faso	68 670	80 950	91 530	99 162	106 680	1e
Canada	289 584	321 272	346 776	304 964	323 000	1e
Chile	48 071	42 870	29 008	26 810	5 620	1e
China	4 748 000	4 635 000	4 300 000	4 160 000	4 353 000	2e
Congo, D.R.	12 675	12 587	12 337	1 047	1 607	1e

Congo, Rep.	0	520	4 270	460	4 830	1e
Cuba		0	2 900	42 250	57 830	1n
Dominican Republic	4 655	3 636	3 920	4 038	5 527	1e
Eritrea	0	40 900	95 400	125 000	121 260	1n
Finland	25 332	45 852	66 284	85 067	69 800	1e
Greece	13 174	18 866	18 715	21 515	22 322	1n
Guatemala	14 810	15 000	6 100	0	0	1e
Honduras	23 000	14 500	20 437	28 422	29 454	1a
India	740 740	755 780	772 600	728 400	723 410	1e
Indonesia	21 260	8 540	13 800	20 070	21 020	1a
Iran	94 100	106 900	129 900	143 600	209 900	2e
Ireland	236 300	147 800	130 600	131 742	122 463	1n
Kazakhstan	342 500	324 800	315 900	304 400	244 700	1e
Korea, North	45 000	64 000	36 000	30 000	25 700	1e
Korea, South	2 070	2 260	3 320	3 660	4 110	1e
Kosovo	4 000	4 800	4 500	3 600	3 100	1q
Laos	0	750	0	3 080	1 250	1n
Mexico	786 774	666 896	671 444	662 355	859 194	1e
Mongolia	44 800	50 100	41 350	43 950	41 550	1e
Montenegro	7 000	8 100	8 820	10 670	9 520	1n
Morocco	53 750	43 020	51 700	57 700	43 570	1e
Myanmar	4 850	6 500	13 150	12 240	13 680	1n
Namibia	123 675	132 470	131 920	118 310	124 630	1e
Nigeria	14 200	13 400	22 130	26 920	23 310	1n
North Macedonia	29 150	24 870	27 510	29 720	31 040	1e
Pakistan	0	7 700	19 460	26 980	37 365	1n
Peru	1 421 218	1 337 081	1 473 073	1 474 674	1 404 382	1e
Poland	65 000	61 000	50 000	43 000	40 000	1e
Portugal	66 871	71 052	71 357	144 983	161 569	1a
Romania	2 900	1 500	770	330	1 260	1e
Russia	213 800	245 800	255 200	288 000	275 400	1e
Saudi Arabia	19 020	4 230	21 787	27 100	31 870	1n
Serbia	11 700	11 700	11 900	11 830	10 560	1e
Slovakia	190	126	166	151	119	1e
South Africa	29 040	26 695	30 778	28 129	125 157	1e
Spain	49 216	76 342	70 451	106 352	106 000	2n
Sweden	246 983	258 264	251 244	237 715	247 657	1e
Tajikistan	50 400	73 850	92 940	84 330	90 860	1e
Thailand	36 210	35 130	1 580	0	0	1e
Turkey	173 600	118 700	155 900	184 500	146 800	1n
United States	824 700	804 800	773 800	824 000	753 000	1e
Uzbekistan	50 000	50 000	55 000	56 000	45 000	2q
Vietnam	15 000	12 000	12 000	12 000	13 000	2n
Total	13 345 961	12 374 599	12 313 687	12 672 122	13 174 841	

### 6.4.3 Precious Metals

#### Gold

Country	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg	Rem
Algeria	106	102	137	286	70	1e
Argentina	63 231	56 967	60 956	58 375	53 092	1e
Armenia	2 805	3 732	4 670	4 967	5 825	1n



Australia	277 372	290 767	292 022	313 028	325 711	1e
Azerbaijan	2 240	2 034	3 667	4 239	3 897	1n
Benin	6	7	5	5	5	2n
Bolivia	19 770	22 545	28 726	31 599	42 000	1a
Botswana	756	833	913	1 105	943	1e
Brazil	83 127	94 153	79 717	85 198	89 988	1e
Bulgaria	7 930	7 920	8 670	8 995	7 467	1n
Burkina Faso	36 540	38 530	46 398	52 622	50 302	1e
Burundi	549	396	953	598	573	1e
Cameroon	795	542	713	448	450	1e
Canada	162 504	163 923	178 568	194 155	182 783	1e
Central African Republic	15	33	118	142	359	1e
Chile	42 501	46 333	37 911	37 066	38 455	1e
China	450 053	453 500	426 142	401 119	380 230	1n
Colombia	59 638	63 157	43 128	35 560	36 676	1e
Congo, D.R.	31 878	30 664	31 586	36 777	33 752	1e
Congo, Rep.	150	100	100	150	150	2n
Costa Rica	950	750	4 255	3 699	4 500	1e
Cote d'Ivoire	23 460	25 055	25 396	24 488	32 568	1a
Cyprus		0	48	47	33	1a
Dominican Republic	31 134	37 933	35 221	31 640	31 873	1e
Ecuador	7 723	6 761	6 368	8 213	6 293	1e
Egypt	13 657	17 139	16 941	14 694	14 946	1n
Eritrea	753	333	1 000	429	400	2n
Eswatini				0	6	1e
Ethiopia	9 370	8 573	5 390	3 495	2 800	1q
Fiji	1 290	1 500	1 425	1 281	1 106	1e
Finland	8 342	8 865	9 102	8 732	7 927	1e
French Guiana	1 374	1 321	1 486	1 320	1 105	1e
Gabon	1 472	1 020	620	83	107	1e
Georgia	3 073	3 621	3 032	2 913	2 620	1e
Germany	13	17	7	9	15	2e
Ghana	96 926	128 026	143 438	149 057	142 381	1e
Greece	1 600	940	823	2 839	2 333	1n
Guatemala	5 641	3 907	1 646	0	0	1e
Guinea	21 460	29 192	46 847	25 823	27 708	1e
Guyana	14 029	22 168	20 334	19 069	19 963	1e
Honduras	2 598	2 607	2 656	2 070	3 035	1a
India	1 323	1 594	1 651	1 664	1 724	1e
Indonesia	92 171	91 090	101 510	135 250	108 900	1a
Iran	2 368	4 537	7 100	7 600	8 140	1a
Japan	7 699	6 455	6 369	6 453	6 313	1e
Kazakhstan	63 614	74 737	85 339	100 288	106 559	1e
Kenya	337	197	503	472	395	1e
Korea, North	10 000	10 000	10 000	10 000	10 000	2n
Korea, South	269	205	285	239	181	1e
Kyrgyzstan	17 015	19 856	22 795	22 602	23 797	1n
Laos	6 893	6 764	5 988	5 579	5 207	1n
Liberia	829	4 704	6 071	7 289	4 903	1e
Madagascar	160	586	2 834	2 977	2 059	1e
Malaysia	4 854	2 249	2 124	2 978	3 151	1e
Mali	46 503	46 903	49 622	60 893	66 739	1e
Mauritania	8 805	7 127	9 096	9 236	13 554	1e
Mexico	134 759	133 552	126 820	141 143	133 893	1e
Mongolia	20 829	18 436	19 849	20 655	16 300	1e
Morocco	448	352	220	386	221	1n
Mozambique	242	201	166	507	430	1e
Myanmar	1 692	1 446	1 620	467	250	1a
Namibia	6 410	7 062	7 800	6 632	7 016	1e
New Zealand	12 687	9 866	10 288	10 045	8 217	1e
Nicaragua	7 612	8 391	7 367	7 703	9 190	1a
Niger	1 220	999	914	6 207	1 208	1e

Nigeria	7 000	7 000	7 000	10 000	9 000	2n
North Macedonia	494	664	972	767	593	1n
Panama	0	0	0	0	1 869	1n
Papua New Guinea	57 633	61 785	61 678	67 282	70 450	1n
Peru	146 823	153 006	151 964	140 211	128 413	1e
Philippines	20 643	23 053	22 749	20 765	20 646	1e
Poland	431	402	572	523	674	1e
Romania	500	500	960	900	500	2q
Russia	255 200	253 580	270 300	279 850	305 050	1e
Rwanda	800	1 980	2 000	2 163	2 000	2n
Saudi Arabia	5 089	7 010	10 465	13 397	12 418	1n
Senegal	5 779	6 741	7 255	12 508	14 550	1a
Serbia	1 186	805	1 199	839	1 452	1n
Sierra Leone	106	188	142	464	75	1e
Slovakia	603	466	447	515	346	1e
South Africa	144 504	142 202	137 290	117 144	105 185	1e
Spain	1 825	1 291	1 825	1 991	1 913	1n
Sudan	82 400	93 000	107 300	93 600	57 700	3e
Suriname	9 397	12 926	25 844	26 006	24 516	1n
Sweden	6 028	6 463	7 858	7 866	7 972	1e
Taiwan	2	0	4	4	6	1e
Tajikistan	4 200	5 040	5 500	6 432	8 100	1e
Tanzania	43 861	45 778	43 490	39 304	48 408	1e
Thailand	3 305	4 293	0	0	0	1e
Togo	15 568	14 470	19 960	10 000	2 000	2e
Turkey	27 800	24 030	23 090	27 100	39 000	1e
Uganda	13	11	4	12	0	1e
United Kingdom	0	6	0	0	50	2e
United States	213 808	228 267	236 778	226 000	200 000	1e
Uruguay	1 413	999	1 055	393	0	1n
Uzbekistan	103 000	100 000	89 900	88 500	93 000	1e
Venezuela	558	800	8 100	9 100	9 100	2q
Vietnam	539	584	557	570	540	1n
Zambia	4 238	4 610	4 373	4 044	4 522	1n
Zimbabwe	20 023	22 747	26 495	35 054	29 429	1e
Total	3 120 339	3 257 972	3 334 592	3 376 904	3 292 271	

## Palladium

Country	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg	Rem
Australia	425	610	610	430	390	1e
Botswana	156	0	0	0	0	1n
Canada	22 600	21 200	19 140	20 880	19 750	2n
China	1 200	1 300	1 400	1 300	1 300	2n
Finland	784	901	1 021	1 157	699	1e
Poland	20	30	7	5	5	2n
Russia	75 710	86 500	76 270	92 570	92 900	1n
Serbia	22	23	50	55	100	1n
South Africa	82 691	76 273	80 713	80 629	80 684	1e
United States	12 532	13 070	13 600	14 267	14 323	1n
Uzbekistan				0	28	1e
Zimbabwe	10 055	12 222	11 822	12 094	11 640	1e
Total	206 195	212 129	204 633	223 387	221 819	

## Platinum

Country	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg	Rem
Australia	108	152	155	110	95	1e
Botswana	31	0	0	0	0	1n
Canada	10 000	9 700	6 850	7 460	7 050	2n
China	2 300	3 000	2 500	2 500	2 500	2n
Colombia	861	917	567	269	163	1e
Finland	992	1 178	1 418	1 576	953	1e
Poland	40	50	11	8	8	2n
Russia	20 839	22 300	22 400	21 370	22 420	1n
Serbia	2	3	3	6	10	1n
South Africa	139 125	133 241	132 500	137 053	132 989	1e
United States	3 667	3 891	3 980	4 165	4 152	1n
Zimbabwe	12 564	15 110	14 257	14 703	13 857	1e
<b>Total</b>	<b>190 529</b>	<b>189 542</b>	<b>184 641</b>	<b>189 220</b>	<b>184 197</b>	

## Rhodium

Country	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg	Rem
Canada	530	650	600	750	700	2n
Russia	2 488	2 644	2 426	2 146	2 115	1n
South Africa	18 722	19 237	18 665	18 608	19 545	1e
United States	96	103	100	100	100	2n
Zimbabwe	1 128	1 322	1 283	1 334	1 224	1e
<b>Total</b>	<b>22 964</b>	<b>23 956</b>	<b>23 074</b>	<b>22 938</b>	<b>23 684</b>	

## Silver

Country	2015 kg	2016 kg	2017 kg	2018 kg	2019 kg	Rem
Algeria	20	20	25	30	30	2n
Argentina	1 175 246	1 055 700	997 961	1 023 768	1 039 813	1e
Armenia	18 350	14 100	17 200	16 700	17 922	1n
Australia	1 430 298	1 418 219	1 120 175	1 254 480	1 325 089	1e
Azerbaijan	890	5 136	6 949	8 943	8 160	1n
Bolivia	1 306 977	1 356 620	1 222 371	1 191 024	1 153 109	1a
Botswana	2 800	0	0	0	0	1e
Brazil	44 142	48 793	46 400	49 600	50 000	2n
Bulgaria	45 485	59 606	59 484	47 016	40 055	1n
Burkina Faso	2 400	5 670	5 470	6 160	5 670	1n
Canada	383 807	398 509	392 788	403 589	419 218	1e
Chile	1 504 271	1 501 436	1 318 582	1 370 237	1 309 321	1e
China	3 685 800	3 754 200	3 601 800	3 421 400	3 443 200	1n
Colombia	11 602	11 866	12 074	15 967	11 666	1e
Congo, D.R.	2 412	835	3 376	3 400	3 400	2n
Cote d'Ivoire	576	549	493	510	500	2n
Cyprus		0	99	180	97	1a
Dominican Republic	95 706	121 749	151 828	166 510	108 696	1e

Ecuador	2 521	934	68	192	2 892	1e
Eritrea	38 910	13 219	1 192	31 000	44 836	1n
Ethiopia	990	880	750	1 000	800	2n
Fiji	354	354	350	413	692	1e
Finland	13 051	16 348	13 654	12 849	40 461	1e
Germany	4 000	4 000	6 000	5 000	4 000	2e
Ghana	4 000	3 100	4 000	4 000	4 000	2n
Greece	28 050	29 342	34 220	39 150	37 790	1n
Guatemala	862 814	837 793	336 944	0	0	1e
Honduras	34 369	17 803	21 785	31 182	45 174	1a
India	426 443	460 811	557 691	679 386	441 818	1e
Indonesia	201 595	228 640	328 780	308 810	487 400	1a
Iran	48 380	50 000	50 000	50 000	50 000	2q
Ireland	3 770	1 076	1 344	1 160	1 578	1n
Japan	4 616	5 076	3 408	3 596	3 467	1e
Kazakhstan	1 306 575	1 182 476	1 041 838	969 347	1 022 068	1e
Korea, North	50 000	50 000	70 000	70 000	50 000	2n
Korea, South	4 586	6 579	8 863	7 090	5 243	1e
Kyrgyzstan	17 220	20 397	19 212	18 328	19 010	1n
Laos	51 764	50 904	42 841	37 465	34 443	1n
Malaysia	945	1 075	1 404	1 542	686	1e
Mali	2 608	2 600	2 900	3 000	3 000	2n
Mexico	5 955 151	5 474 968	5 815 034	7 243 341	7 485 602	1e
Mongolia	79 910	84 920	67 190	64 750	63 390	1e
Morocco	247 490	268 523	238 530	153 590	185 690	1e
Namibia	877	4 702	6 490	3 850	7 765	1e
New Zealand	12 498	7 960	8 022	6 332	4 060	1e
Nicaragua	18 577	21 382	15 419	11 263	17 362	1a
Niger	100	100	100	300	100	2n
North Macedonia	17 660	13 970	17 630	17 240	17 880	1n
Panama				0	35 217	1e
Papua New Guinea	73 166	95 879	69 650	93 311	146 186	1n
Peru	4 101 568	4 375 337	4 417 987	4 160 162	3 860 306	1e
Philippines	29 780	35 186	31 737	29 782	31 267	1e
Poland	1 209 094	1 264 659	1 289 900	1 264 300	1 249 000	1n
Portugal	41 337	38 631	40 186	90 760	95 270	1n
Romania	18 000	18 000	18 000	18 000	18 000	2q
Russia	1 580 058	1 493 000	1 373 000	1 400 100	1 361 000	1e
Saudi Arabia	4 500	4 710	5 133	6 480	5 588	1e
Senegal	540	640	660	940	898	1a
Serbia	7 488	11 345	12 340	8 970	14 502	1n
Slovakia	532	391	410	345	295	1e
South Africa	51 861	55 622	62 536	46 467	55 903	1e
Spain	27 300	74 740	82 907	87 829	90 783	1e
Sudan	1 000	1 000	2 000	1 000	1 000	1n
Sweden	479 686	498 686	467 500	443 624	419 926	1e
Tajikistan	2 658	3 200	6 550	9 500	11 100	1e
Tanzania	15 569	17 984	10 911	12 041	12 550	1e
Thailand	21 047	35 954	0	0	0	1e
Turkey	190 550	174 180	151 490	202 400	242 000	1e
United Kingdom	0	14	0	0	130	1e
United States	1 090 000	1 153 000	1 030 000	934 000	977 000	1e
Uzbekistan	200 000	231 000	232 300	161 700	172 000	1e
Total	28 296 340	28 196 098	26 977 931	27 726 401	27 817 074	

## 6.4.4 Industrial Minerals

### Asbestos

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	130	0	26	0	0	1e
Brazil	232 052	177 800	129 094	101 000	50 000	2n
China	250 000	203 000	125 000	170 000	125 000	1e
Kazakhstan	179 800	192 600	192 700	202 900	210 700	1e
Russia	647 690	713 675	710 250	752 917	789 600	1n
<b>Total</b>	<b>1 309 672</b>	<b>1 287 075</b>	<b>1 157 070</b>	<b>1 226 817</b>	<b>1 175 300</b>	

### Baryte

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	32 020	39 980	29 159	39 426	31 138	1e
Argentina	12 917	12 389	15 553	7 225	3 898	1e
Australia	6 017	7 139	8 958	6 535	1 982	1e
Bolivia	46 732	16 632	29 114	53 163	39 458	1a
Brazil	17 760	12 133	16 275	17 000	17 000	2n
Bulgaria	60 000	50 000	64 000	70 000	72 000	1e
Canada	42 000	20 000	50 000	50 000	40 000	2n
China	2 984 000	2 771 100	3 100 000	2 900 000	2 900 000	1e
Colombia	4 003	3 068	1 791	2 586	2 270	1e
Ecuador			0	2 868	2 000	2n
Egypt	3 800	4 000	4 000	4 000	4 000	2n
Germany	68 297	49 373	34 177	37 897	30 474	1e
Guatemala	544	500	43	63	50	2n
India	1 252 262	1 262 476	2 050 215	2 000 000	2 000 000	2n
Iran	1 085 667	1 449 038	514 711	477 227	247 207	1a
Kazakhstan	752 300	612 300	569 900	773 200	530 600	1e
Korea, North	12 000	9 000	4 200	4 200	4 000	2n
Laos	32 150	33 240	33 325	35 000	48 600	1e
Mexico	265 700	173 781	359 912	366 234	415 180	1e
Morocco	1 212 130	668 500	818 016	899 365	1 119 811	1e
Myanmar	4 535	2 627	3 206	9 658	12 439	1e
Nigeria	3 323	537	717	387	0	2n
Pakistan	118 773	157 858	91 711	88 847	116 666	1e
Peru	28 407	7 953	9 182	15 621	16 373	1e
Russia	210 000	434 000	221 000	265 300	163 000	1e
Slovakia	20 000	23 000	15 700	11 100	0	1e
Thailand	170 621	223 101	147 954	67 490	33 644	1e
Tunisia	10 000	10 000	10 000	10 000	10 000	2n
Turkey	655 943	321 239	292 447	465 138	413 811	1e
United Kingdom	50 000	56 000	55 000	55 000	55 000	2n
United States	433 000	232 000	334 000	366 000	414 000	1e
Vietnam	140 000	80 000	70 000	50 000	70 000	2n
<b>Total</b>	<b>9 734 901</b>	<b>8 742 964</b>	<b>8 954 266</b>	<b>9 150 530</b>	<b>8 814 601</b>	

## Bentonite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	34 400	37 100	35 600	36 000	36 700	1e
Argentina	229 715	145 723	156 750	184 969	120 000	3e
Armenia	9 228	13 956	24 712	0	0	1e
Australia	75 000	59 000	68 000	61 000	70 000	2n
Azerbaijan	56 800	54 545	235 617	212 300	222 500	1e
Bolivia	1 023	525	68	2	0	1a
Bosnia-Herzegovina	67 261	102 858	92 344	87 358	94 601	1e
Brazil	602 846	448 004	616 929	500 000	600 000	2n
Bulgaria	61 600	37 100	54 100	45 000	45 000	2n
Chile	1 434	1 288	1 584	525	395	1e
China	3 650 000	5 600 000	5 600 000	5 600 000	5 600 000	1e
Cuba	500	389	589	630	504	1e
Cyprus	127 036	117 184	95 593	98 800	83 113	1a
Czech Republic	369 000	374 000	254 000	277 000	357 000	1e
Denmark	54 272	66 278	69 594	56 173	48 197	1e
Egypt	4 500	3 600	2 000	3 500	3 500	2n
France	36 403	42 567	24 497	35 696	82 720	1e
Germany	392 831	393 000	416 000	379 000	366 000	1e
Greece	1 123 320	883 220	1 087 800	1 365 374	1 393 958	1a
Guatemala	718	18 081	20 542	16 953	12 700	2e
Hungary	14 170	16 000	24 630	25 000	41 500	1a
India	1 580 000	2 978 858	3 488 264	3 555 000	3 600 000	2n
Iran	435 974	356 036	517 524	423 604	761 079	1a
Italy	12 840	45 978	86 106	100 067	82 720	1e
Japan	250 000	250 000	250 000	250 000	250 000	2n
Kazakhstan		119 100	120 000	120 000	120 000	2n
Korea, South	78 439	63 834	47 306	31 824	43 886	1e
Mexico	294 236	109 176	148 475	264 800	24 321	1e
Morocco	92 290	103 230	174 546	172 749	188 081	1e
Mozambique	350	322	285	1 091	77 734	1e
Myanmar	700	600	600	540	0	1a
New Zealand	700	700	700	4 482	500	2n
North Macedonia	9 012	1 968	912	2 945	682	1e
Norway			0	3 234	0	1e
Pakistan	23 283	42 038	42 770	74 268	49 380	1e
Peru	21 341	19 410	756	2 383	46 887	1e
Philippines	3 480	3 230	2 620	10 800	13 050	1e
Poland	450	1 000	0	560	500	1e
Romania	19 355	24 996	28 005	34 809	41 964	1e
Russia	498 000	589 600	669 700	714 000	720 000	1e
Slovakia	228 433	173 530	226 425	269 990	260 120	1e
Slovenia	232	182	147	113	99	1e
South Africa	165 535	148 742	165 141	173 486	105 084	1e
Spain	100 604	155 038	177 565	178 463	160 477	1e
Turkey	3 134 911	1 744 912	1 481 617	1 331 955	1 533 547	1e
Turkmenistan	10 000	10 000	10 000	10 000	10 000	2n
Ukraine	220 000	200 000	113 200	178 200	124 700	1e
United States	4 080 000	4 000 000	4 430 000	4 560 000	4 490 000	1e
Uruguay	4 252	6 650	6 640	7 760	6 730	1e
Total	18 176 474	19 563 548	21 070 253	21 462 403	21 889 929	

## Boron Minerals

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	248 683	148 390	129 918	71 212	54 700	3e
Bolivia	148 738	182 685	208 388	216 403	214 269	1a
Chile	517 584	558 854	607 076	398 411	352 255	1e
China	90 000	80 000	70 000	80 000	250 000	1e
Iran	515	36	850	851	2 026	1a
Kazakhstan	30 000	30 000	30 000	30 000	30 000	2n
Peru	578 910	33 792	0	100 552	111 108	1e
Russia	82 000	78 800	82 500	88 000	80 400	1n
Turkey	1 840 000	1 831 000	2 025 000	2 432 000	2 040 000	1n
United States	1 218 000	1 134 000	1 075 000	1 075 000	1 030 000	1n
<b>Total</b>	<b>4 754 430</b>	<b>4 077 557</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 164 758</b>	

## Diamonds (Gem)

Country	2015 ct	2016 ct	2017 ct	2018 ct	2019 ct	Rem
Angola	8 117 048	8 119 320	8 494 920	7 567 820	8 234 770	1c
Australia	271 220	279 160	342 690	280 160	243 090	1e
Botswana	14 576 800	14 623 700	16 058 700	17 064 600	16 580 900	1e
Brazil	10 503	60 560	84 115	82 810	53 240	1e
Canada	11 677 471	13 315 319	23 198 761	22 789 001	18 402 705	1e
Central African Republic	34 000	9 973	47 840	10 020	18 880	1e
China	0	127	230	99	51	1c
Congo, D.R.	3 150 700	3 111 890	2 268 332	1 815 745	2 020 450	1e
Cote d'Ivoire	11 940	16 188	8 925	4 540	3 989	1a
Ghana	139 350	114 400	69 540	46 025	27 030	1e
Guinea	125 161	84 597	136 090	219 530	171 880	1c
Guyana	88 838	104 920	39 120	46 580	41 240	1e
India	12 784	13 970	12 940	12 680	9 510	1e
Lesotho	60 846	68 403	225 280	258 860	222 700	1n
Liberia	39 600	36 220	36 380	45 330	35 190	1e
Namibia	1 676 108	1 494 350	1 713 800	1 985 670	1 722 830	1e
Russia	25 147 434	24 431 760	21 860 500	22 973 133	25 804 591	1e
Sierra Leone	420 158	417 952	165 860	402 530	433 054	1e
South Africa	3 293 220	3 322 220	3 877 040	3 964 730	2 872 280	1e
Tanzania	184 025	203 915	258 785	324 105	354 240	1e
Venezuela			0	800	0	1c
Zimbabwe	1 008 000	639 920	752 360	975 730	635 760	1e
<b>Total</b>	<b>70 045 206</b>	<b>70 468 864</b>	<b>79 652 208</b>	<b>80 870 498</b>	<b>77 888 380</b>	

## Diamonds (Ind)

Country	2015 ct	2016 ct	2017 ct	2018 ct	2019 ct	Rem
Angola	901 894	902 147	943 880	840 870	914 975	1c
Australia	13 289 580	13 678 840	16 792 040	13 727 890	11 911 450	1e
Botswana	6 247 200	6 267 300	6 882 300	7 313 400	7 106 100	1e

Brazil	21 323	122 955	170 780	168 130	108 085	1e
Cameroon	2 245	994	1 757	1 805	1 737	1c
Central African Republic	8 500	2 493	11 960	2 505	4 720	1e
Congo, D.R.	12 602 790	12 447 557	16 634 432	13 315 465	11 449 240	1e
Congo, Rep.	40 057	12 110	46 758	46 768	2 963	1c
Cote d'Ivoire	2 985	4 047	2 231	1 140	0	1a
Ghana	34 838	28 605	17 385	11 505	6 760	1e
Guinea	41 720	28 200	45 360	73 180	57 300	1c
Guyana	29 613	34 970	13 040	15 530	13 750	1e
India	23 260	22 520	26 760	25 750	19 310	1e
Lesotho	243 386	273 611	901 130	1 035 420	890 820	1n
Liberia	26 400	24 150	24 250	30 220	23 460	1e
Namibia	88 216	78 650	90 200	104 510	90 675	1e
Russia	16 764 956	16 287 840	20 754 280	20 187 926	19 466 621	1e
Sierra Leone	79 875	131 550	122 380	339 070	391 403	1e
South Africa	4 939 840	4 983 330	5 815 560	5 947 100	4 308 420	1e
Tanzania	32 475	35 985	45 670	57 195	62 510	1e
Togo	0	0	0	0	16	1c
Venezuela			0	1 200	0	1c
Zimbabwe	2 352 000	1 493 140	1 755 500	2 276 690	1 483 430	1e
Total	57 773 153	56 860 994	71 097 653	65 523 269	58 313 745	

## Diatomite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	2 360	2 535	2 439	2 468	2 437	1e
Argentina	60 951	57 113	70 419	72 490	94 090	1e
Armenia	18 915	25 486	23 465	0	0	1e
Australia	4 923	1 033	1 085	4	8	1e
Brazil	5 530	16 408	16 000	16 000	16 000	2n
Chile	26 186	26 937	27 557	24 736	21 328	1e
China	420 000	400 000	400 000	280 000	400 000	2n
Costa Rica	20 537	20 500	4 218	3 972	4 000	2n
Czech Republic	15 000	26 000	34 000	31 000	43 000	1e
Denmark	127 500	114 400	110 000	99 400	108 800	1e
Ethiopia	4 000	4 000	4 000	5 000	5 000	2n
France	90 000	90 000	90 000	90 000	90 000	2n
Iran	9 500	37	0	0	600	1a
Kenya	1 090	1 238	1 406	1 548	921	1e
Korea, South	15 310	20 564	133 741	25 902	40 910	1e
Mexico	89 810	109 970	96 474	152 028	129 274	1e
Mozambique	0	1 305	0	34 200	72 439	1e
Peru	120 672	107 265	96 590	96 532	91 103	1e
Poland	600	500	500	580	680	1e
Spain	47 706	48 231	70 550	61 056	60 000	2n
Turkey	86 656	61 722	169 584	242 789	220 757	1e
United States	832 000	686 000	768 000	957 000	768 000	1e
Total	1 999 246	1 821 244	2 120 028	2 196 705	2 169 347	



## Feldspar

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	154 500	168 000	170 000	170 000	170 000	2n
Argentina	186 974	155 217	154 770	124 500	10 000	3e
Australia	40 777	31 768	329	542	50	1e
Austria	35 000	35 000	35 000	35 000	35 000	1e
Brazil	456 308	295 778	290 000	300 000	632 349	1e
Chile	6 577	6 352	4 421	2 789	55	1e
China	2 350 000	2 400 000	2 500 000	2 500 000	2 450 000	1e
Colombia	159 740	151 759	150 334	141 794	161 518	1e
Cuba	3 300	5 790	8 715	3 000	2 100	1e
Czech Republic	433 000	454 000	368 000	449 000	460 000	1e
Dominican Republic	7 800	5 200	5 000	1 200	1 000	2n
Ecuador	253 253	148 506	92 871	43 197	45 000	2n
Egypt	230 000	230 000	230 000	230 000	230 000	2n
Finland	38 026	18 549	14 926	17 469	17 997	1e
France	550 000	550 000	550 000	550 000	500 000	2n
Germany	253 411	284 569	276 747	252 693	235 289	1e
Guatemala	10 340	30 428	29 145	30 257	28 771	1e
India	3 343 773	6 434 788	4 270 245	4 300 000	4 300 000	2n
Indonesia	1 204 900	1 353 300	2 601 000	1 368 400	1 370 000	2n
Iran	1 003 354	1 120 449	1 128 585	1 320 452	2 415 368	1a
Italy	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	2n
Korea, South	601 030	654 398	717 177	617 166	396 898	1e
Malaysia	442 980	441 856	411 204	414 441	241 189	1e
Mexico	159 372	318 169	500 692	907 755	516 196	1e
Morocco	32 000	33 600	101 064	75 298	75 000	2n
Nigeria	25 280	34 144	27 660	41 355	40 000	2n
North Macedonia	20 289	19 919	21 237	30 813	29 519	1e
Norway	76	70 000	87 900	88 000	80 000	2n
Pakistan	38 568	316 289	273 468	151 743	346 236	1e
Peru	16 979	16 630	14 930	31 588	29 134	1e
Philippines	38 067	46 630	47 000	47 000	47 000	2n
Poland	76 540	88 140	91 200	71 480	42 160	1e
Portugal	93 789	132 105	126 211	130 475	106 754	1a
Romania	13 244	4 501	5 000	20 000	20 000	2n
Russia	205 000	278 100	293 300	281 300	281 300	1e
Saudi Arabia	179 000	188 000	197 000	175 594	216 000	1e
Slovakia	4 100	8 400	15 800	16 800	19 100	1e
South Africa	130 184	127 872	116 705	76 803	76 255	1e
Spain	558 273	634 519	819 218	616 229	620 000	2n
Sri Lanka	95 000	96 000	96 000	70 000	65 400	2e
Sudan	28 238	49 000	29 000	36 000	17 000	3e
Sweden	29 000	22 000	22 000	28 000	25 000	2n
Thailand	1 331 916	1 167 147	1 385 925	1 117 803	1 251 143	1e
Turkey	10 422 766	9 475 819	10 273 573	11 474 040	9 447 810	1e
Ukraine	44 460	33 627	35 000	50 000	60 000	2n
United States	520 000	470 000	440 000	550 000	450 000	1e
Uruguay	200	460	370	380	0	1e
Venezuela	75 527	58 000	30 340	30 000	30 000	2n
Total	28 102 911	30 864 778	31 259 062	31 190 356	29 793 591	

## Fluorspar

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Afghanistan	5 500	7 624	7 522	10 000	50 000	2n
Argentina	65 282	14 222	13 696	7 924	1 500	1e
Brazil	27 351	18 260	19 000	15 000	15 000	2n
Bulgaria	131 900	4 400	0	0	0	2n
Canada			0	20 000	80 000	1n
China	4 400 000	3 800 000	3 800 000	3 500 000	4 000 000	1e
Colombia	47	75	57	46	0	1e
Egypt	1 105	1 000	1 000	1 000	1 000	2n
Germany	57 741	52 552	45 375	49 197	79 959	1e
India	2 333	1 175	1 314	1 079	1 315	1e
Iran	39 286	70 820	55 297	55 000	54 824	1a
Kenya	70 096	42 656	6 945	0	0	1e
Korea, North	4 000	4 525	6 900	6 900	6 900	2n
Mexico	624 574	659 776	741 678	1 959 654	1 931 532	1e
Mongolia	280 300	248 900	319 330	555 230	699 400	1e
Morocco	80 890	73 920	75 509	87 874	73 244	1e
Pakistan	5 960	9 494	2 263	2 777	4 208	1e
Russia	1 000	3 000	2 700	6 000	4 000	1e
South Africa	121 316	177 000	218 399	230 000	210 000	2n
Spain	130 647	130 131	154 931	176 188	170 000	2n
Thailand	15 095	20 100	5 500	16 700	17 747	1e
Turkey	6 238	10 339	20 150	6 200	14 400	1e
United Kingdom	17 000	12 000	11 000	11 000	11 000	2n
Vietnam	214 000	218 878	234 905	238 700	238 003	1n
Total	6 301 661	5 580 847	5 743 471	6 956 469	7 664 032	

## Graphite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	900	0	0	0	0	1e
Austria	150	150	150	150	100	2n
Brazil	81 762	61 687	95 000	96 800	81 770	1e
Canada	30 000	21 000	14 000	11 000	11 000	1e
China	780 000	780 000	625 000	630 000	700 000	1e
Colombia				0	90	1e
Germany	398	502	422	222	207	1e
India	135 528	122 437	33 649	39 030	31 991	1e
Korea, North	40 000	47 000	50 000	45 000	45 000	2n
Korea, South	62	0	0	670	302	1e
Madagascar	8 100	9 230	13 300	47 900	53 400	1e
Mexico	6 524	14 200	10 310	4 130	2 342	1e
Mozambique		0	802	104 000	153 000	1n
Namibia		0	2 216	3 456	0	1e
Norway	9 185	9 600	9 600	10 000	9 780	1n
Russia	13 200	12 400	19 500	11 900	17 500	1e
Sri Lanka	4 212	3 860	3 800	3 800	3 100	2n
Sweden	295	0	0	0	0	1e

Turkey	0	0	4 000	16 752	9 990	1e
Ukraine	10 000	12 000	13 000	15 000	10 000	2n
Vietnam			0	1 500	3 500	1n
Zimbabwe	6 362	5 622	1 577	0	0	1e
Total	1 126 678	1 099 688	896 326	1 041 310	1 133 072	

## Gypsum and Anhydrite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Afghanistan	57 000	57 000	40 000	36 161	24 371	1e
Albania	86 163	131 924	104 120	102 016	98 000	3e
Algeria	2 207 000	2 200 000	2 200 000	2 200 000	2 200 000	2n
Angola	127 910	0	32 000	32 000	32 000	2n
Argentina	1 314 655	1 558 390	1 275 608	897 217	761 013	1e
Armenia	19 400	14 831	14 336	20 387	22 907	1e
Australia	3 715 200	3 664 700	3 381 670	4 352 805	4 215 350	1e
Austria	715 195	674 346	712 469	836 862	900 217	1e
Azerbaijan	196 500	155 800	85 100	9 145	14 700	1e
Bhutan	389 365	317 597	328 128	461 128	490 596	1e
Bolivia	650	1 182	473	1 136	3 905	1a
Bosnia-Herzegovina	58 800	61 231	99 001	122 421	130 788	1e
Brazil	3 161 856	2 674 154	2 113 208	2 115 000	2 115 000	2n
Bulgaria	108 600	60 900	88 000	88 000	88 000	2n
Canada	1 726 216	1 678 573	3 001 390	3 240 451	2 831 010	1e
Chile	860 075	934 033	1 157 466	909 191	977 397	1e
China	20 000 000	25 400 000	25 000 000	25 000 000	25 000 000	2n
Colombia	448 543	471 306	405 802	393 496	293 143	1e
Croatia	126 470	150 430	147 934	211 894	199 255	1e
Cuba	90 900	73 900	85 400	99 900	66 300	1e
Cyprus	471 885	682 024	647 108	625 721	623 545	1a
Czech Republic	11 000	10 000	7 000	8 000	10 000	1e
Dominican Republic	470 780	284 170	217 570	190 660	315 430	1e
Egypt	744 160	686 610	835 614	800 000	800 000	2n
Eritrea	13 000	13 000	12 000	12 000	12 000	2n
Ethiopia	116 000	80 556	85 236	253 165	255 000	2n
France	2 027 360	4 182 614	3 014 296	5 314 983	3 259 935	1e
Germany	4 200 000	3 970 000	4 450 000	4 550 000	4 850 000	1e
Greece	649 280	777 990	547 140	827 298	589 012	1a
Guatemala	111 351	130 617	135 154	132 897	140 901	1e
Honduras	35 352	42 000	35 000	35 000	34 964	1a
India	2 138 814	1 816 981	2 048 127	2 000 000	2 000 000	2n
Iran	17 793 500	15 715 011	13 942 092	10 904 289	14 750 093	1a
Iraq	1 000 000	1 000 000	1 000 000	1 000 000	1 000 000	2n
Ireland	250 000	250 000	200 000	200 000	200 000	1e
Israel	159 300	147 000	116 000	75 800	90 000	2n
Italy	571 730	617 188	469 044	188 618	298 242	1e
Jamaica	43 000	50 000	46 000	47 000	55 000	1e
Jordan	212 839	81 000	344 191	190 606	200 000	2n
Kazakhstan	82 300	137 400	133 200	121 400	78 200	1e
Kenya	5 800	5 760	5 700	5 700	5 700	2n
Kyrgyzstan	60 617	98 000	100 000	152 842	150 000	2n
Laos	989 516	469 436	463 039	618 783	606 387	1e
Latvia	225 370	224 000	278 260	320 080	318 450	1a
Libya	150 000	150 000	150 000	150 000	200 000	2n
Mauritania	70 000	60 000	80 000	130 000	130 000	2n
Mexico	7 101 612	7 697 838	9 197 520	11 275 293	7 759 139	1e

Moldova	194 900	204 400	358 500	352 500	276 400	1a
Myanmar	94 395	245 789	361 015	309 343	299 316	1e
Nicaragua	50 374	41 750	66 740	70 341	39 925	1a
Nigeria	34 621	28 000	39 939	39 052	40 000	2n
North Macedonia	172 525	202 582	217 491	230 029	267 181	1e
Norway	77 403	82 386	87 891	89 655	102 100	1e
Oman	6 251 900	7 933 617	8 438 286	9 666 701	10 663 185	1e
Pakistan	1 417 007	1 871 716	2 079 629	2 475 893	2 265 131	1e
Paraguay	4 500	4 500	4 500	4 500	4 500	2n
Peru	438 025	257 423	286 657	458 479	254 382	1e
Poland	1 018 450	1 043 000	1 108 000	1 042 000	1 065 000	1e
Portugal	309 966	255 026	152 059	232 921	209 076	1a
Romania	888 746	714 273	764 786	749 668	878 546	1e
Russia	4 223 000	4 200 000	3 750 000	5 453 400	4 179 300	1e
Saudi Arabia	2 780 000	3 000 000	3 150 000	3 352 832	3 472 000	1e
Slovakia	65 700	52 300	45 600	55 190	58 250	1e
South Africa	231 688	262 457	320 685	321 988	277 102	1e
Spain	7 403 767	8 936 364	9 545 228	10 593 056	10 643 585	1e
Sudan	241 360	349 236	333 000	226 000	193 000	3e
Switzerland	320 000	340 000	330 000	330 000	330 000	2n
Syria	230 000	101 000	66 000	66 000	70 000	2n
Tajikistan	8 339	8 750	43 066	9 639	14 000	1e
Tanzania	239 302	213 744	123 645	241 260	256 529	1e
Thailand	12 143 168	11 746 811	10 646 644	11 197 657	9 787 287	1e
Tunisia	690 000	902 394	944 245	984 031	946 892	1e
Turkey	8 638 715	10 124 221	10 223 112	10 896 476	7 489 129	1e
Ukraine	1 254 900	1 303 000	1 528 900	1 386 400	1 409 400	1e
United Kingdom	1 800 000	1 600 000	1 300 000	1 400 000	1 400 000	2n
United States	18 800 000	19 800 000	20 700 000	21 100 000	21 200 000	1e
Yemen	100 000	100 000	50 000	50 000	20 000	2n
Total	145 237 815	155 584 231	155 897 014	164 644 356	157 307 166	

## Kaolin

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	51 000	96 000	100 000	100 000	100 000	2n
Argentina	62 214	26 198	19 940	17 000	11 853	1e
Australia	153 365	222 229	192 150	173 738	114 050	1e
Austria	12 894	13 558	13 500	13 500	13 500	2n
Bosnia-Herzegovina	252 268	271 502	252 959	303 626	118 005	1e
Brazil	1 809 000	1 737 000	1 771 000	1 550 000	1 471 610	1e
Bulgaria	314 900	338 600	322 800	323 000	330 000	2n
Chile	60 000	60 000	60 000	88 262	34 801	1e
China	7 030 000	7 240 000	6 910 000	6 650 000	6 400 000	1e
Cuba	1 500	2 500	1 500	2 700	2 100	1e
Czech Republic	3 454 000	3 540 000	3 669 000	3 622 000	3 446 000	1e
Ecuador	64 486	4 110	548	0	0	2n
Egypt	232 351	230 000	230 000	230 000	230 000	2n
Eritrea	200	200	200	200	0	2n
Ethiopia	4 600	4 600	5 000	10 000	10 000	2n
France	275 150	263 993	279 120	301 842	392 389	1e
Germany	3 733 714	4 740 000	5 168 000	4 930 000	4 760 000	1e
Guatemala	1 101	793	657	724	700	2n
India	4 770 000	4 110 000	4 100 000	4 400 000	4 400 000	2n
Indonesia	681 100	728 000	736 600	749 300	750 000	2n
Iran	791 193	868 179	861 938	1 158 983	1 813 395	1a

Italy	180 000	180 000	200 000	300 000	250 000	2n
Japan	12 000	12 000	12 000	12 000	12 000	2n
Jordan	60 000	11 935	11 000	11 000	11 000	2n
Kenya	1 100	1 000	1 000	1 000	1 000	1n
Korea, South	356 866	366 511	416 648	369 274	317 626	1e
Kyrgyzstan	0	0	40 000	15 000	15 000	2n
Malaysia	294 693	392 933	444 559	496 219	417 222	1e
Mexico	366 049	452 070	325 864	898 246	246 645	1e
New Zealand	13 659	61 650	50 424	51 369	50 569	1e
Nigeria	20 000	24 104	46 935	11 707	12 000	2n
Oman	169 500	188 300	218 600	110 300	12 500	1e
Pakistan	18 956	20 726	28 710	19 483	15 539	1e
Paraguay	6 000	6 000	6 000	6 000	6 000	2n
Peru	43 251	19 098	17 700	16 004	9 208	1e
Philippines	8 179	10 059	10 000	10 000	10 000	2n
Poland	286 650	299 830	284 650	310 850	317 190	1e
Portugal	251 582	283 571	307 982	374 029	311 677	1a
Romania	31 000	31 000	31 000	7 220	6 089	1e
Russia	786 000	1 064 800	1 593 000	1 485 900	1 530 800	1e
Saudi Arabia	187 000	196 000	206 000	207 461	227 000	1e
Serbia	110 000	110 000	110 000	120 000	120 000	2n
Slovakia	5 900	11 923	21 400	34 400	24 970	1e
South Africa	20 126	21 141	31 186	23 724	27 827	1e
Spain	391 960	347 258	475 074	474 462	463 617	1e
Sri Lanka	12 000	13 000	13 000	20 000	34 100	2e
Sudan	14 490	6 500	5 446	11 000	29 000	3e
Taiwan	732	4 035	1 665	20	500	1e
Tanzania	1 953	656	13 816	129 383	15 343	1e
Thailand	102 763	101 618	103 079	110 437	92 414	1e
Turkey	1 887 302	1 283 260	1 362 799	1 515 609	1 283 776	1e
Uganda	40 774	45 909	55 317	17 281	10 448	1e
Ukraine	1 814 786	2 335 004	2 379 636	2 091 525	1 843 561	1e
United Kingdom	1 014 000	940 000	970 000	996 000	996 000	2n
United States	5 810 000	5 290 000	5 450 000	5 350 000	5 060 000	1e
Uzbekistan	196 350	323 680	269 906	291 814	377 184	1e
Vietnam	100 000	100 000	100 000	100 000	100 000	2n
Total	38 370 657	39 053 033	40 309 308	40 623 592	38 656 208	

## Magnesite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	663 212	469 455	210 844	263 446	413 182	1e
Austria	702 504	645 593	730 482	808 239	691 909	1e
Bosnia-Herzegovina	200	7 300	8 500	5 950	1 400	1e
Brazil	1 621 425	1 652 424	2 303 971	1 900 000	1 700 000	1e
Canada	150 000	150 000	150 000	150 000	150 000	2n
China	17 440 000	16 840 000	18 500 000	19 000 000	19 000 000	1e
Colombia	2 883	1 175	1 883	1 039	1 847	1e
Finland	22 390	54 227	63 850	49 601	37 002	1e
Greece	383 230	397 940	442 680	425 882	358 841	1a
Guatemala	25 000	23 954	16 298	4 745	4 500	2n
India	327 663	299 149	195 055	146 875	97 684	1e
Iran	165 073	145 223	166 636	137 445	147 760	1a
Korea, North	149 599	160 935	172 488	100 000	100 000	2n
Mexico	101 000	101 000	101 000	101 000	800	1e
Nepal	60	0	0	0	0	1e

Pakistan	4 581	35 228	19 656	23 596	41 477	1e
Philippines	7 158	10 310	10 000	10 000	10 000	2n
Poland	96 000	77 920	101 920	102 110	91 490	1e
Russia	1 709 100	1 188 900	1 397 000	1 571 400	1 013 800	1n
Saudi Arabia	77 000	100 000	104 132	155 000	200 000	2n
Slovakia	878 400	683 400	975 100	1 053 900	1 015 800	1e
South Africa	10 200	8 800	8 700	8 500	8 500	2n
Spain	464 691	583 698	788 991	738 994	750 000	2n
Turkey	3 335 258	3 258 445	1 694 071	1 958 847	1 496 081	1e
Total	28 336 627	26 895 076	28 163 257	28 716 569	27 332 073	

## Perlite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	23 282	17 905	19 924	18 794	1 850	3e
Armenia	57 657	44 820	14 036	51 222	80 676	1e
Australia	0	620	275	2 285	1 264	1e
Chile	3 000	5 500	4 210	5 020	4 700	1e
Greece	890 670	921 410	932 950	790 412	718 077	1a
Hungary	31 275	31 000	34 628	35 000	37 877	1a
Iran	63 030	17 083	23 837	71 579	31 828	1a
Mexico	13 000	28 431	15 899	26 400	24 497	1e
Philippines	35 675	38 745	15 038	7 329	6 608	1e
Russia	45 000	45 000	45 000	45 000	45 000	2n
Slovakia	25 000	19 000	48 010	35 600	32 450	1e
South Africa	1 000	1 000	1 000	1 000	1 000	2n
Thailand	17 200	15 690	5 800	5 600	15 000	1e
Turkey	843 242	1 066 251	606 231	1 088 983	1 174 486	1e
United States	501 000	521 000	570 000	494 000	526 000	1e
Total	2 550 031	2 773 455	2 336 838	2 678 224	2 701 313	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	438 200	433 200	378 100	409 400	455 100	1e
Australia	236 375	238 494	216 670	195 720	165 750	1e
Brazil	2 167 000	2 046 000	2 083 000	1 980 300	1 828 500	1e
Chile	5 470	1 740	1 190	1 160	950	1e
China	42 611 700	43 319 400	36 939 600	28 897 800	27 997 200	1e
Christmas Island	177 100	148 120	147 890	111 780	89 010	1n
Colombia	23 900	21 030	13 850	12 260	19 570	1e
Egypt	993 830	741 240	1 021 960	1 000 000	1 000 000	2n
Finland	344 360	338 230	352 300	356 070	363 020	1e
India	368 350	288 830	360 220	313 840	322 000	3e
Iran	65 342	77 912	88 715	105 840	102 230	1a
Iraq	0	40 000	40 000	377 120	300 000	2n
Israel	1 192 900	1 223 600	1 032 900	1 100 500	870 200	1n
Jordan	2 667 520	2 557 170	2 780 030	2 567 170	2 951 470	1n
Kazakhstan	387 100	348 600	368 400	381 200	388 540	1e
Korea, North	95 000	95 000	95 000	95 000	95 000	2n

Malawi	2 110	430	170	270	300	3e
Mexico	578 830	988 280	692 150	222 500	249 520	1e
Morocco	8 388 700	8 601 000	10 490 100	10 960 200	11 267 500	1e
Nauru	45 700	39 800	50 900	23 000	30 600	1e
Pakistan	15 230	20 730	11 100	12 340	14 950	1e
Peru	4 241 420	4 013 220	3 211 140	3 917 140	4 214 770	1e
Philippines	5 930	8 690	8 600	1 500	0	1e
Russia	4 485 000	4 797 000	5 148 000	5 304 000	5 382 000	1e
Saudi Arabia	1 530 000	1 620 000	1 701 000	1 633 200	1 714 800	1e
Senegal	589 110	886 500	841 020	775 410	855 850	1a
South Africa	648 300	593 800	727 800	720 400	639 000	1e
Sri Lanka	18 380	13 600	14 850	16 760	16 600	1e
Syria	179 100	0	38 700	95 000	134 000	1e
Tanzania	49 020	5 200	300	650	5 050	1e
Thailand	0	0	2 400	0	0	1e
Togo	418 100	306 600	266 260	370 810	290 720	1e
Tunisia	936 200	1 062 400	1 145 300	812 800	1 124 700	1e
Turkey	214 000	231 800	0	0	94 600	1e
United States	7 710 000	7 615 000	7 840 000	7 250 000	6 547 000	1e
Uzbekistan	166 800	170 000	170 000	150 000	150 000	2n
Venezuela	7 370	42 900	19 320	16 800	21 500	3e
Vietnam	877 020	942 750	1 376 400	1 299 660	1 395 480	3e
Zimbabwe	7 700	8 500	18 000	15 400	8 100	1e
Total	82 888 167	83 886 766	79 693 335	71 503 000	71 105 580	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Belarus	6 467 900	6 180 100	7 101 800	7 346 096	7 348 293	1a
Brazil	304 018	316 429	306 296	201 181	200 000	1e
Canada	11 461 530	10 789 662	12 562 695	14 023 931	12 643 318	1e
Chile	1 179 560	1 303 840	1 238 630	991 180	683 540	1e
China	5 714 000	5 783 000	5 534 000	5 452 000	5 902 000	1e
Germany	3 109 903	2 750 841	2 963 561	2 754 085	2 615 284	1e
Iran	8 200	10 500	15 300	32 900	37 200	1n
Israel	1 297 000	2 093 100	2 126 700	2 149 300	1 852 900	1n
Jordan	1 436 550	1 222 140	1 415 260	1 485 960	1 516 460	1n
Laos	255 100	198 600	307 600	343 500	286 900	1e
Russia	6 840 000	6 480 000	7 300 000	7 055 000	7 368 000	1n
Spain	667 959	672 246	557 468	635 490	600 115	1n
Turkmenistan			0	15 200	11 100	1e
United Kingdom	653 400	482 800	297 400	291 100	84 000	1n
United States	740 000	510 000	480 000	520 000	510 000	1e
Uzbekistan	103 000	83 000	85 000	92 300	70 150	1e
Total	40 238 120	38 876 258	42 291 710	43 389 223	41 729 260	

## Salt

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Afghanistan	88 183	56 928	75 579	47 944	114 245	1e
Albania	22 100	15 500	25 500	31 500	30 000	2n
Algeria	175 500	158 000	165 000	106 200	100 800	1e
Angola	47 845	93 000	101 000	110 000	109 000	1e
Argentina	1 400 777	1 812 285	1 929 065	1 784 020	984 700	3e
Armenia	142 605	68 435	137 236	155 393	56 685	1e
Australia	11 903 561	10 915 520	12 218 780	13 493 556	12 173 391	1e
Austria	974 475	1 034 003	1 156 326	1 176 807	1 212 158	1e
Azerbaijan	39 461	63 931	66 968	66 699	77 116	1e
Bahamas	970 393	308 007	349 710	854 223	714 387	1e
Bangladesh	1 282 000	1 620 000	1 660 000	1 490 000	1 224 000	1e
Belarus	2 050 000	2 480 000	2 629 000	2 904 097	2 517 590	1a
Benin	500	500	500	500	500	2n
Bolivia	2 216	4 534	3 358	5 373	4 494	1a
Bosnia-Herzegovina	869 750	966 177	1 029 302	1 063 458	1 069 210	1e
Botswana	404 295	399 837	369 613	367 988	383 779	1e
Brazil	7 676 015	7 510 314	7 381 546	7 600 000	7 600 000	2n
Bulgaria	3 100 000	3 300 000	3 400 000	3 400 000	3 400 000	2n
Cambodia	175 172	148 900	33 058	30 000	18 430	1e
Canada	14 286 373	10 252 161	11 423 624	10 713 206	11 942 282	1e
Cape Verde	1 000	1 000	1 000	1 000	1 000	2n
Chile	11 831 116	8 139 914	7 440 741	10 012 105	10 476 823	1e
China	66 655 400	66 201 000	66 541 700	63 636 100	62 708 000	1e
Colombia	417 438	564 194	501 499	391 222	347 183	1e
Croatia	20 670	15 629	19 006	16 453	93 870	1e
Cuba	284 900	248 000	246 300	192 700	210 400	1e
Denmark	600 000	600 000	600 000	600 000	600 000	1e
Dominican Republic	25 890	0	0	23 860	24 000	2n
Egypt	1 669 000	1 402 000	807 000	1 000 000	1 000 000	2n
El Salvador	50 000	30 000	30 000	30 000	30 000	2n
Eritrea	300 000	310 000	310 000	310 000	310 000	2n
Ethiopia	320 000	54 534	60 654	122 850	125 000	2n
France	6 754 200	4 266 248	4 739 491	4 689 054	5 877 000	1e
Germany	14 839 321	14 441 510	15 535 669	16 229 929	16 627 893	1e
Ghana	250 000	250 000	250 000	330 000	300 000	1n
Greece	121 537	158 020	166 527	163 474	167 170	1e
Honduras	45 400	59 000	59 000	63 500	49 900	1e
Iceland	5 000	5 000	5 000	5 000	5 000	2n
India	27 643 700	29 191 600	28 949 400	30 033 300	27 300 000	3e
Indonesia	2 186 600	141 000	1 021 321	2 719 256	2 852 125	1a
Iran	4 448 463	2 995 025	2 839 430	2 453 873	2 639 192	1a
Iraq	209 000	200 000	237 350	271 500	270 000	2n
Israel	333 300	389 240	514 100	377 000	370 000	2n
Italy	3 030 687	2 550 849	2 283 406	1 514 829	1 538 072	1e
Jamaica	14 379	15 354	12 565	10 000	10 000	2n
Japan	938 000	928 000	926 000	929 000	930 000	2n
Jordan	46 020	41 309	48 985	48 901	49 000	2n
Kazakhstan	608 627	730 283	803 794	885 717	1 094 659	1e
Kenya	21 201	23 425	43 245	28 841	30 600	1e
Korea, North	500 000	500 000	500 000	500 000	500 000	2n
Korea, South	342 844	323 470	308 844	282 590	261 970	1e
Kuwait	64 289	66 664	58 250	53 350	55 000	2n
Kyrgyzstan	4 744	7 000	6 000	4 665	5 605	1e
Laos	35 100	36 398	37 490	46 863	58 579	1e
Lebanon	15 000	3 000	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	100 000	2n



Malta	1 600	1 600	1 600	1 600	1 600	2n
Mauritius	1 800	500	1 000	1 000	1 500	2n
Mexico	9 718 027	10 443 786	9 570 779	9 392 052	8 845 239	1e
Mongolia	1 686	478	860	997	533	1e
Morocco	555 760	634 610	659 263	691 637	854 397	1e
Mozambique	12 005	10 127	21 458	27 729	28 250	1e
Myanmar	133 815	212 041	158 499	189 146	213 319	1e
Namibia	732 980	835 539	866 586	1 151 153	983 354	1e
Netherlands	6 742 969	6 625 418	6 935 000	6 750 546	5 913 782	1e
New Zealand	101 000	102 000	102 000	100 000	100 000	2n
Nicaragua	55 000	55 000	50 000	50 000	55 000	2n
Norway	7 600	10 632	10 000	56 000	10 000	1e
Oman	12 600	12 100	18 035	11 537	15 003	1e
Pakistan	2 404 116	3 867 325	3 806 888	3 647 584	4 108 929	1e
Panama	23 267	23 470	18 590	17 281	27 389	1e
Peru	1 471 131	1 450 415	1 481 398	1 509 564	1 266 347	1e
Philippines	1 000 000	1 238 610	1 250 000	1 000 000	800 000	2n
Poland	3 468 000	4 079 000	4 660 000	4 125 000	4 063 000	1e
Portugal	30 008	6 092	7 800	6 201	0	1a
Romania	2 180 000	2 100 000	2 340 000	2 374 973	2 015 579	1n
Russia	4 377 000	6 687 000	7 073 000	6 710 000	8 175 000	1e
Saudi Arabia	2 080 000	2 400 000	2 520 000	2 646 000	2 778 000	1e
Senegal	268 176	263 218	265 040	245 700	286 100	1e
Serbia	13 202	9 149	8 197	7 811	13 464	1e
Slovenia	2 191	2 417	2 335	2 018	1 437	1e
South Africa	517 159	473 339	492 860	478 285	510 012	1e
Spain	4 589 545	4 453 041	4 135 626	4 512 243	5 000 888	1e
Sri Lanka	29 243	106 034	74 108	68 834	57 291	1e
Sudan	20 136	223 397	235 000	267 000	263 000	3e
Switzerland	476 941	447 216	448 509	530 414	477 325	1n
Syria	0	5 000	5 000	12 000	50 000	2n
Taiwan	78 300	77 300	77 054	78 539	76 255	1e
Tajikistan	35 554	35 238	41 323	36 964	35 324	1e
Tanzania	168 900	178 200	124 500	36 600	99 510	1e
Thailand	1 385 911	1 390 548	1 497 223	1 487 364	1 580 390	1e
Tunisia	1 280 000	1 346 026	1 403 537	2 116 972	2 039 781	1e
Turkey	6 257 320	5 328 256	6 673 242	6 298 705	6 961 015	1e
Turkmenistan	100 000	100 000	100 000	100 000	100 000	1n
Ukraine	2 136 500	1 783 530	1 815 684	2 191 619	2 092 795	1e
United Kingdom	4 700 000	4 700 000	4 700 000	4 700 000	4 700 000	2e
United States	45 100 000	41 700 000	39 600 000	42 000 000	42 000 000	2e
Venezuela	642 000	640 000	600 000	600 000	600 000	2n
Vietnam	1 061 000	982 000	648 500	996 500	912 900	3e
Yemen	70 000	50 000	50 000	50 000	50 000	2n
Total	294 396 489	281 296 350	284 722 426	290 768 464	288 947 516	

## Sulfur

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Algeria	5 000	6 000	6 000	6 000	6 000	2n
Armenia	10 400	8 500	8 100	10 500	10 500	1e
Australia	900 000	900 000	900 000	900 000	900 000	2n
Austria	8 502	5 474	7 691	6 980	6 768	1e
Bahrain	140 800	134 790	144 805	139 370	139 655	1e
Brazil	530 000	530 000	530 000	530 000	500 000	1e
Bulgaria	438 500	395 500	501 000	474 100	379 400	1e

Canada	5 745 000	5 381 000	5 327 000	5 333 000	6 938 000	1e
Chile	1 867 100	1 870 900	1 797 800	1 734 200	1 520 400	1e
China	13 801 100	13 908 100	13 488 700	13 762 700	14 450 000	2n
Colombia	76 239	76 331	81 172	155 641	100 203	1e
Denmark	93 024	6 144	4 004	4 194	3 554	1e
Egypt	60 000	60 000	80 000	80 000	80 000	2n
Finland	847 000	852 700	937 000	888 300	811 600	1n
France	380 000	380 000	500 000	500 000	500 000	2n
Germany	627 797	577 684	537 882	419 597	460 012	1e
Greece	155 000	185 000	210 000	280 000	260 000	2n
India	2 741 100	2 960 800	3 475 200	4 290 400	3 900 950	1e
Indonesia	540 000	540 000	500 000	500 000	500 000	2n
Iran	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	2n
Iraq	40 000	40 000	40 000	40 000	40 000	2n
Italy	683 300	838 500	846 900	809 900	1 261 100	1e
Japan	3 420 900	3 517 800	3 372 500	3 408 300	3 329 400	1n
Jordan	254 900	20 000	20 000	20 000	10 000	2n
Kazakhstan	3 150 000	2 850 000	3 789 700	3 218 250	3 337 050	1n
Korea, North	20 500	10 000	10 000	10 000	10 000	2n
Korea, South	1 960 000	2 000 000	2 000 000	2 000 000	2 000 000	1e
Kuwait	753 500	750 000	556 800	671 000	623 300	1n
Libya	90 000	75 000	133 300	133 000	130 000	2n
Lithuania	84 000	94 520	93 970	93 960	86 040	1e
Mexico	858 527	673 285	551 218	442 657	364 967	1e
Norway	110 000	110 000	100 000	120 000	100 000	2n
Oman	43 295	35 560	59 140	84 990	79 140	1e
Pakistan	19 730	14 869	23 740	22 040	20 715	1e
Peru	565 500	551 100	536 200	552 800	511 500	1e
Philippines	1 026 400	1 134 400	1 056 400	1 100 000	1 050 000	2n
Poland	1 278 220	1 253 800	1 321 410	1 250 400	1 210 240	1e
Qatar	2 377 000	2 419 000	2 000 000	1 767 000	2 050 000	1n
Russia	6 720 000	6 960 000	7 000 000	7 170 000	7 175 000	1n
Saudi Arabia	4 900 000	5 969 900	6 564 200	6 600 000	6 600 000	2n
South Africa	284 381	280 830	256 700	239 297	919 624	1e
Spain	520 000	646 600	633 000	662 000	663 100	1n
Taiwan	211 219	163 768	173 963	169 698	195 358	1e
Turkey	78 600	78 000	92 500	250 000	242 600	1e
Turkmenistan	600 000	400 000	200 000	480 000	330 000	2n
Ukraine	171 700	171 300	175 900	222 200	220 400	1e
United Arab Emirates	4 540 000	4 800 000	4 600 000	5 300 000	6 000 000	3e
United Kingdom	135 000	133 000	133 000	129 000	130 000	2n
United States	9 540 000	9 740 000	9 630 000	9 670 000	8 710 000	1e
Venezuela	700 000	700 000	700 000	700 000	500 000	2n
Zambia	300 000	363 000	679 500	947 800	960 200	1n
Total	76 603 234	77 773 155	78 586 395	80 499 274	82 526 776	

## Talc

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	33 774	16 266	15 330	13 072	10 000	3e
Australia	80 000	111 000	120 000	130 000	140 000	2n
Austria	122 326	123 040	123 558	127 866	124 184	1e
Bhutan	5 807	2 261	1 293	2 042	1 375	1e
Brazil	481 687	494 157	500 000	660 000	650 000	1e
Canada	175 000	199 000	215 000	279 000	243 000	1e
China	2 200 000	2 000 000	1 800 000	2 000 000	2 450 000	1e

Colombia	55	103	59	0	1 680	1e
Egypt	30 000	14 300	15 000	15 000	15 000	2n
Finland	332 174	345 739	354 819	374 398	329 891	1e
France	450 000	450 000	470 000	450 000	400 000	2n
Guatemala	3 779	2 733	1 982	2 187	10	1e
India	1 094 101	1 292 893	1 652 367	1 640 000	1 640 000	2n
Iran	150 965	87 899	86 514	73 259	49 650	1a
Italy	165 000	165 000	165 000	165 000	160 000	2n
Japan	375 000	375 000	365 000	160 000	160 000	2b
Korea, North	50 000	40 000	40 000	40 000	40 000	2n
Korea, South	603 231	592 247	434 292	348 794	330 250	1e
Mexico	20 452	17 263	7 129	8 448	7 202	1e
Nepal	5 255	1 860	7 096	8 658	3 463	1e
Nigeria	0	667	1 897	2 668	2 500	2n
North Macedonia	598	729	478	559	0	1e
Pakistan	116 223	125 985	152 279	141 504	167 148	1e
Peru	52 990	29 379	42 123	47 309	43 974	1e
Portugal	11 204	11 699	13 600	10 144	12 901	1a
Russia	20 000	20 000	20 000	12 500	10 000	2n
Saudi Arabia	40 000	42 000	44 000	46 000	48 000	1e
Slovakia	1 400	800	14 000	43 000	70 100	1e
South Africa	21 849	23 576	58 776	102 142	135 430	1e
Spain		0	11 500	15 500	15 000	2n
Sudan	3 000	4 250	4 000	4 000	2 000	3e
Taiwan	162	250	0	17	6	1e
Thailand	52 268	103 926	61 436	58 676	14 564	1e
Turkey	182 362	203 214	474 482	284 216	92 077	1e
United Kingdom	5 430	2 997	3 218	1 640	1 600	2n
United States	615 000	578 000	610 000	648 000	578 000	1e
Uruguay	585	290	100	420	50	1e
Total	7 501 677	7 478 523	7 886 328	7 916 019	7 949 055	

## Vermiculite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Argentina	90	60	0	0	0	1e
Brazil	54 250	53 330	50 050	50 000	47 581	1e
China	50 000	50 000	50 000	50 000	50 000	2n
Egypt	8 190	0	0	0	0	2n
India	23 279	9 042	6 054	2 992	2 774	1e
Iran	1 000	1 000	0	0	0	1a
Kenya	410	100	0	0	100	2n
Mexico	299	310	464	244	148	1e
Russia	21 000	20 000	14 400	25 904	20 000	2n
South Africa	138 290	166 483	166 084	141 346	158 013	1e
Turkey	425	1 050	1 618	18 183	1 370	1e
Uganda	1 213	3 295	4 119	10 413	9 674	1e
United States	100 000	100 000	100 000	100 000	100 000	2e
Zimbabwe	30 868	29 312	23 302	33 161	26 200	1n
Total	429 314	433 982	416 091	432 243	415 860	

## Zircon

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	687 326	600 000	570 000	618 000	710 000	1e
Brazil	22 647	21 302	22 000	22 000	22 000	2n
China	140 000	100 000	116 000	150 000	140 000	2n
India	18 437	11 709	9 107	11 906	12 000	2n
Indonesia	30 900	34 800	29 500	53 700	73 100	1n
Kenya	25 951	39 687	42 217	36 387	30 440	1n
Madagascar	11 879	15 582	25 950	22 400	28 500	1e
Malaysia	826	653	1 595	509	449	1e
Mozambique	51 800	68 200	74 000	76 600	87 100	1n
Nigeria	1 825	891	4 086	1 421	1 000	2n
Russia	8 180	7 704	7 324	7 400	6 300	1e
Senegal	45 248	52 627	81 749	93 569	80 747	1a
Sierra Leone	1 389	1 329	3 000	11 400	8 500	1n
South Africa	377 767	377 430	361 813	303 610	340 000	2n
Sri Lanka	614	7 749	8 569	785	971	1e
Turkey	1 500	500	1 200	1 950	0	1e
Ukraine	30 000	29 280	27 239	21 614	18 000	2e
United States	60 000	50 000	45 000	100 000	100 000	2e
Vietnam	8 000	9 300	5 500	10 500	6 600	1n
<b>Total</b>	<b>1 524 289</b>	<b>1 428 743</b>	<b>1 435 849</b>	<b>1 543 751</b>	<b>1 665 707</b>	

## 6.4.5 Mineral Fuels

### Steam Coal

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Afghanistan	1 364 800	1 698 200	2 191 400	2 444 600	2 139 200	1e
Argentina	48 764	40 597	37 713	81 993	154 782	1e
Australia	256 014 000	249 568 000	252 748 000	259 784 000	271 618 000	1p
Bangladesh	675 775	1 021 638	1 160 658	923 276	805 696	1n
Bhutan	85 164	117 783	161 527	186 824	184 785	1e
Botswana	2 065 778	1 870 939	2 215 782	2 482 313	2 110 891	1e
Brazil	3 644 350	3 525 735	3 325 439	3 568 760	3 812 975	1e
Bulgaria	9 600	5 900	0	0	0	1e
Canada	25 847 000	25 077 000	24 428 000	19 370 000	16 757 000	1p
Chile	3 161 726	2 525 171	2 495 390	2 294 677	1 606 554	1e
China	2 812 582 000	2 510 708 000	2 678 559 400	2 852 665 761	2 967 272 082	1p
Colombia	80 716 510	86 622 000	84 795 450	78 384 020	75 042 100	1e
Czech Republic	3 884 180	3 095 300	2 337 100	1 993 850	1 335 497	1n
Eswatini	141 733	158 418	202 277	144 375	109 926	1e
Georgia	305 900	296 500	268 100	137 900	15 300	1e
Germany	2 626 000	1 806 300	1 483 200	1 212 700	0	1e
India	578 343 000	596 207 000	635 252 000	687 586 000	677 936 000	1e
Indonesia	449 534 000	460 137 000	490 409 256	543 102 005	610 407 030	1p
Iran	109 000	121 000	138 000	400 000	485 000	1a
Italy	73 000	59 000	47 000	0	0	1e
Kazakhstan	84 773 000	81 856 000	90 910 400	101 085 800	98 593 000	1e
Korea, North	27 490 000	32 827 000	22 271 000	16 899 000	17 730 000	1e

Korea, South	1 764 050	1 727 046	1 485 582	1 201 920	1 084 000	1e
Kyrgyzstan	345 000	248 000	246 500	316 200	344 830	1e
Laos	106 028	138 809	133 284	142 994	161 494	1e
Malawi	58 774	43 338	45 230	49 753	54 728	3e
Malaysia	2 559 444	2 414 764	2 988 211	2 652 814	3 459 122	1e
Mexico	7 492 620	8 173 505	7 528 900	6 772 528	6 175 726	1e
Mongolia	3 882 000	5 496 000	6 286 990	6 914 400	7 793 800	1p
Mozambique	1 813 717	2 214 199	4 391 833	6 891 201	4 983 146	1e
Myanmar	697 000	317 000	646 900	819 715	1 478 765	1e
Nepal	6 754	2 900	10 237	10 049	7 184	1e
New Zealand	1 732 000	1 383 000	1 426 000	1 717 860	1 550 470	1p
Niger	221 024	246 631	233 792	221 580	213 344	1e
Nigeria	144 880	989 155	397 214	352 679	400 000	2n
Norway	1 203 382	960 341	134 433	154 200	117 000	1n
Pakistan	3 407 659	3 749 312	3 953 992	4 477 555	5 371 865	1e
Peru	251 788	268 883	301 446	218 787	181 023	1e
Philippines	8 170 000	11 211 000	11 932 000	13 055 840	15 273 525	1e
Poland	59 191 000	57 181 000	52 999 300	51 810 000	50 009 000	1e
Romania	10 000	0	0	0	0	1e
Russia	215 500 000	223 626 100	253 700 000	271 200 000	266 700 000	1e
South Africa	252 177 000	251 567 000	253 096 500	251 706 073	249 665 481	1p
Spain	1 557 251	1 101 907	1 161 748	645 612	0	1e
Tajikistan	1 042 491	1 361 575	1 760 090	1 907 055	2 027 790	1e
Tanzania	257 321	276 030	558 553	627 652	712 136	1e
Turkey	1 525 000	2 070 000	1 875 000	2 160 520	2 013 000	1p
Ukraine	23 852 700	25 121 500	18 932 900	21 648 100	19 747 200	1e
United Kingdom	8 526 000	3 035 700	2 267 900	1 873 230	1 476 950	1e
United States	689 985 000	543 539 000	573 904 900	562 012 600	521 540 300	1e
Uzbekistan	412 000	160 000	160 000	160 000	245 168	1e
Venezuela	801 697	210 000	370 000	100 000	379 907	1e
Vietnam	41 664 000	38 735 000	38 409 000	42 384 000	46 387 000	3e
Zambia	103 439	126 050	208 608	344 717	270 013	1a
Zimbabwe	3 878 000	1 219 000	2 682 650	3 049 730	2 486 960	1e
Total	5 667 834 299	5 248 258 226	5 539 666 785	5 832 347 218	5 960 426 745	

## Coking Coal

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	191 056 000	189 302 000	190 000 000	179 350 000	188 251 000	1p
Canada	27 341 000	25 016 000	28 127 000	32 221 000	33 921 000	1p
China	593 047 000	547 017 000	515 107 300	483 696 660	502 544 830	1p
Colombia	4 823 870	4 438 000	6 078 000	5 899 870	5 302 760	1e
Czech Republic	3 755 820	2 978 700	2 532 900	2 626 361	2 309 833	1n
Germany	3 596 800	2 042 700	2 185 300	1 370 800	0	1e
India	60 887 000	61 661 000	40 148 000	41 132 000	52 937 000	1e
Indonesia	2 230 000	3 340 000	4 300 000	5 117 786	5 752 018	1p
Iran	1 097 000	1 214 000	1 383 000	1 650 000	1 600 000	1a
Kazakhstan	17 020 000	15 468 000	15 749 700	10 836 000	10 478 500	1e
Mexico	2 439 408	5 551 135	4 566 000	4 735 000	3 975 400	1p
Mongolia	12 613 000	19 998 000	25 672 000	27 073 750	30 516 900	1p
Mozambique	4 786 612	3 972 122	7 385 930	8 355 292	5 356 390	1e
New Zealand	1 333 000	1 171 000	1 173 100	1 213 400	1 200 900	1p
Poland	12 985 000	13 204 000	12 480 640	12 047 000	12 071 000	1e
Russia	82 900 000	88 600 000	85 300 000	89 800 000	93 900 000	1e
South Africa	3 952 000	4 247 000	4 028 275	3 935 423	3 903 518	1p
Turkey	767 000	695 000	764 000	692 130	704 000	1p

Ukraine	6 063 900	6 508 800	5 233 900	4 606 300	5 783 200	1e
United Kingdom	72 000	1 142 100	773 160	706 830	689 450	1e
United States	57 521 000	50 136 000	67 388 600	71 948 200	64 168 100	1e
Zimbabwe	458 000	417 000	245 549	297 770	242 960	1e
<b>Total</b>	<b>1 090 745 410</b>	<b>1 048 119 557</b>	<b>1 020 622 354</b>	<b>989 311 572</b>	<b>1 025 608 759</b>	

## Lignite

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Albania	276 000	16 800	138 800	295 800	95 380	1e
Australia	65 361 000	61 473 000	56 719 000	45 956 000	43 315 000	1p
Bosnia-Herzegovina	12 172 292	13 481 012	14 033 504	14 378 767	13 376 548	1e
Brazil	2 709 305	3 480 217	1 488 084	1 422 500	1 596 696	1e
Bulgaria	35 938 100	31 434 200	34 587 500	31 813 678	29 462 615	1e
Canada	9 156 000	9 167 000	9 154 000	8 696 000	8 849 000	1p
Czech Republic	38 251 000	38 646 000	39 310 000	39 187 000	37 465 000	1e
Germany	178 065 000	171 552 350	171 285 700	166 258 000	131 314 000	1e
Greece	46 308 120	32 674 790	37 802 600	36 574 360	27 383 575	1a
Hungary	9 263 180	9 232 810	7 974 130	7 898 689	6 846 837	1e
India	43 842 000	45 230 000	46 644 000	44 283 000	42 103 000	1e
Kazakhstan	5 526 000	5 750 000	5 739 000	6 560 700	5 928 900	1e
Kosovo	8 240 994	8 800 848	7 574 697	7 169 767	8 063 051	1e
Kyrgyzstan	1 584 000	1 603 000	1 628 900	2 057 500	2 187 900	1e
Laos	4 464 068	13 097 121	13 439 492	15 903 277	15 263 562	1e
Mongolia	5 755 000	6 672 000	6 783 000	7 449 000	6 672 000	1p
Montenegro	1 772 900	1 397 500	1 474 800	1 595 900	1 605 200	1e
Myanmar	54 000	233 000	90 000	485 724	462 793	1p
New Zealand	324 086	313 035	319 487	307 378	287 830	1e
North Macedonia	5 936 597	5 130 055	5 056 918	4 946 486	5 066 083	1e
Poland	63 135 000	60 273 000	63 060 000	61 144 000	52 855 000	1e
Romania	25 492 000	22 980 000	25 752 300	23 647 150	21 652 320	1e
Russia	73 600 000	71 600 000	72 200 000	78 300 000	80 800 000	1e
Serbia	37 029 091	38 440 527	39 805 959	37 648 957	38 880 520	1e
Slovakia	1 941 007	1 956 510	1 860 710	1 506 940	1 474 830	1e
Slovenia	3 168 001	3 348 889	3 355 664	3 216 735	3 218 696	1e
Spain	1 723 731	730 470	1 833 357	1 727 513	0	1e
Thailand	15 150 549	16 978 601	16 258 637	14 851 950	14 077 965	1e
Turkey	56 349 700	70 239 000	71 459 170	81 084 000	87 280 000	1p
United States	64 281 500	64 692 400	61 394 500	51 744 500	48 255 700	1e
Uzbekistan	3 988 000	3 717 400	3 878 670	4 014 400	3 807 600	1e
<b>Total</b>	<b>820 858 221</b>	<b>814 341 535</b>	<b>822 102 579</b>	<b>802 125 671</b>	<b>739 647 601</b>	

## Natural Gas

Country	2015 Mio m <sup>3</sup>	2016 Mio m <sup>3</sup>	2017 Mio m <sup>3</sup>	2018 Mio m <sup>3</sup>	2019 Mio m <sup>3</sup>	Rem
Afghanistan	146	165	156	153	129	1e
Albania	34	88	91	82	71	1e
Algeria	84 583	94 953	96 599	97 467	90 349	1e
Angola	770	1 710	5 800	6 190	6 800	1p
Argentina	39 190	40 760	39 740	40 930	43 220	1e

Australia	76 791	97 328	113 805	130 987	154 485	1e
Austria	1 183	1 253	1 742	969	891	1e
Azerbaijan	19 236	18 718	18 186	19 207	24 514	1e
Bahrain	15 350	15 200	15 230	15 420	17 120	1e
Bangladesh	25 264	27 558	27 450	27 430	27 230	1n
Barbados	20	17	15	14	20	1e
Belarus	225	215	205	211	218	1a
Bolivia	21 994	21 280	20 680	18 808	16 505	1e
Brazil	24 862	25 337	28 663	26 687	27 358	1e
Brunei	12 684	12 417	14 578	12 235	12 504	1e
Bulgaria	85	80	65	31	35	1e
Cameroon	370	360	390	1 460	2 010	1e
Canada	156 413	158 452	160 885	168 921	164 957	1e
Chile	1 064	1 175	1 200	1 221	1 339	1e
China	134 610	136 865	148 035	160 159	176 174	1e
Colombia	11 860	11 080	10 915	11 590	11 800	1e
Congo, Rep.	928	866	860	867	580	1e
Cote d'Ivoire	2 177	2 395	2 130	1 935	2 066	1e
Croatia	1 781	1 647	1 484	1 230	1 029	1e
Cuba	1 245	1 185	1 051	970	951	1e
Czech Republic	200	169	171	179	146	1e
Denmark	4 603	4 535	4 820	4 148	3 138	1e
Ecuador	497	528	463	349	303	1e
Egypt	42 590	40 250	48 810	58 560	64 940	1r
Equatorial Guinea	6 200	7 875	8 240	7 750	6 235	1e
France	30	40	51	70	122	1e
Gabon	466	530	491	511	464	1e
Georgia	11	7	9	10	10	1e
Germany	9 388	8 673	7 932	6 888	6 699	1e
Ghana	733	660	940	910	1 610	1e
Greece	4	9	8	12	9	1a
Hungary	1 887	1 823	1 605	1 710	1 382	1e
India	31 129	30 848	31 731	32 058	30 257	1e
Indonesia	75 740	74 670	72 270	72 570	67 160	1e
Iran	183 548	199 342	219 527	238 327	244 155	1r
Iraq	7 300	9 900	10 120	10 574	10 779	1r
Ireland	120	2 770	3 170	3 060	2 390	1e
Israel	7 135	8 015	8 470	9 010	9 035	1e
Italy	6 771	5 785	5 538	5 443	4 852	1e
Japan	2 734	2 754	3 008	2 707	2 524	1e
Jordan	122	116	102	93	95	2n
Kazakhstan	33 386	28 466	31 587	36 350	33 100	1e
Korea, South	180	148	326	293	229	1e
Kuwait	16 909	17 291	17 102	17 738	13 952	1e
Kyrgyzstan	32	29	26	27	24	1e
Libya	15 490	15 570	14 310	13 880	14 190	1e
Malaysia	63 425	67 557	70 290	66 212	68 470	1e
Mexico	40 370	34 390	30 470	29 860	29 370	1e
Morocco	87	80	81	87	99	1e
Mozambique	5 050	5 160	5 110	5 120	4 620	1e
Myanmar	19 560	18 980	18 660	16 040	18 810	1e
Netherlands	52 131	50 324	43 867	36 707	31 927	1e
New Zealand	4 606	4 763	4 761	4 161	4 464	1e
Nigeria	52 700	48 640	50 630	50 810	51 870	1e
Norway	117 008	116 767	124 664	122 203	115 123	1e
Oman	31 811	32 601	33 172	37 660	37 460	1e
Pakistan	41 511	41 958	41 678	41 313	40 679	1e
Papua New Guinea	2 941	3 128	3 286	2 914	3 339	1e
Peru	12 495	14 001	12 942	12 721	13 429	1e
Philippines	3 470	3 979	3 942	4 270	4 403	1e
Poland	5 214	5 073	5 009	4 926	4 976	1e
Qatar	164 990	167 100	166 500	165 600	167 610	1p

Romania	11 092	9 811	10 582	10 278	9 959	1e
Russia	621 060	606 300	680 800	708 800	717 960	1e
Saudi Arabia	104 450	110 860	115 000	118 000	117 000	1e
Senegal	23	21	18	11	16	1e
Serbia	573	523	489	450	439	1e
Slovakia	91	93	90	90	80	1e
Slovenia	3	5	9	18	8	1e
South Africa	1 312	807	737	615	658	1e
Spain	59	52	34	90	135	1e
Syria	4 050	3 530	3 490	3 470	3 330	1o
Taiwan	374	321	266	198	167	1e
Tajikistan	4	3	2	1	1	1e
Tanzania	1 053	1 368	1 344	1 675	1 807	1e
Thailand	39 793	39 037	37 417	36 454	37 450	1e
Trinidad and Tobago	39 617	32 098	34 581	37 501	35 546	1e
Tunisia	2 529	2 236	2 094	1 950	1 780	1e
Turkey	399	382	364	436	483	1e
Turkmenistan	71 900	69 400	70 600	70 000	71 000	1n
Ukraine	19 900	20 052	20 510	20 806	20 520	1e
United Arab Emirates	58 680	60 315	62 361	61 375	62 531	1r
United Kingdom	40 466	41 607	42 094	37 847	34 555	1e
United States	766 410	753 010	774 200	871 440	961 860	1e
Uzbekistan	62 196	56 136	56 417	59 842	59 460	1e
Venezuela	36 070	37 240	38 605	31 619	26 456	1r
Vietnam	10 660	10 610	9 866	10 010	10 210	3e
Yemen	2 850	500	300	100	100	1p
Total	3 593 053	3 602 725	3 778 114	3 952 081	4 070 315	

## Petroleum

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Albania	1 279 220	1 055 730	958 940	910 670	1 005 090	1e
Algeria	67 064 000	68 417 000	66 667 000	65 331 000	64 330 000	1e
Angola	89 457 000	85 152 000	78 608 000	71 311 500	66 684 450	1p
Argentina	26 508 000	25 487 500	23 879 000	24 369 600	25 323 400	1e
Australia	18 463 390	17 292 880	16 630 520	17 393 890	22 484 230	1e
Austria	905 931	809 189	741 890	681 842	642 953	1e
Azerbaijan	41 628 300	41 050 400	38 688 400	38 814 300	37 501 200	1e
Bahrain	2 518 200	2 422 200	2 202 200	2 097 100	2 109 850	1e
Bangladesh	417 400	559 240	592 650	589 650	565 140	1n
Barbados	34 030	31 750	32 050	29 970	29 880	1e
Belarus	1 645 000	1 645 000	1 650 000	1 670 000	1 690 000	1a
Bolivia	3 027 200	2 817 500	2 711 300	2 534 273	2 249 127	1e
Brazil	125 806 800	130 144 400	136 052 700	134 122 000	143 933 400	1e
Brunei	6 313 770	6 021 270	5 635 870	5 553 200	6 040 240	1e
Bulgaria	23 700	22 600	21 930	20 600	20 000	2n
Cameroon	4 770 500	4 595 300	3 781 800	3 428 100	3 545 900	1e
Canada	193 895 700	194 332 300	210 714 900	229 515 400	235 042 500	1e
Chad	5 976 000	5 478 000	5 663 200	5 750 600	6 316 700	1e
Chile	257 100	215 080	177 760	160 330	161 520	1e
China	214 555 800	199 685 200	191 506 100	189 324 200	191 014 100	1e
Colombia	50 058 800	44 226 200	42 519 290	43 088 900	44 101 940	1e
Congo, D.R.	1 124 940	1 068 970	1 027 850	1 144 760	1 113 260	1e
Congo, Rep.	12 139 600	12 838 700	13 252 670	16 740 500	17 430 000	1e
Cote d'Ivoire	1 464 300	2 104 100	1 696 900	1 607 400	1 799 700	1e
Croatia	657 550	737 100	744 500	732 100	705 700	1e



Cuba	2 822 000	2 619 200	2 522 200	2 462 500	2 400 000	2n
Czech Republic	126 000	116 000	106 000	109 000	81 000	1e
Denmark	7 689 812	6 924 374	6 736 967	5 665 787	5 017 234	1e
Ecuador	27 038 000	27 377 000	26 452 000	25 754 000	26 442 000	1e
Egypt	35 431 000	33 835 000	32 178 000	34 192 750	33 550 490	1r
Equatorial Guinea	12 056 260	10 161 060	8 686 440	8 666 720	7 172 620	1e
France	835 000	816 000	758 000	776 000	720 000	1e
Gabon	11 920 000	11 480 000	10 503 000	9 646 000	10 848 000	1e
Georgia	40 200	38 600	32 000	30 200	35 100	1e
Germany	2 412 643	2 355 028	2 218 406	2 066 643	1 923 232	1e
Ghana	5 351 200	4 614 000	8 379 700	8 876 500	10 301 400	1e
Greece	72 649	173 486	139 551	201 786	164 905	1a
Guatemala	499 800	448 100	480 000	458 800	478 200	1e
Hungary	633 072	732 702	705 274	808 000	930 000	1e
India	36 941 750	36 008 830	35 684 330	34 203 270	32 169 270	1e
Indonesia	39 121 400	41 488 400	39 879 800	38 434 800	37 104 200	1e
Iran	180 242 940	216 144 450	235 487 640	224 677 310	160 831 240	1r
Iraq	195 614 960	217 606 460	222 380 480	227 010 780	234 220 860	1r
Israel	64 205	96 968	64 308	73 933	84 020	1e
Italy	5 470 000	3 746 000	4 138 000	4 684 200	4 279 000	1e
Japan	536 700	494 000	505 400	449 000	470 200	1e
Jordan	500	400	300	1 000	1 000	2n
Kazakhstan	79 456 300	78 031 800	86 194 400	90 359 500	90 555 400	1e
Kenya				0	32 400	1e
Korea, South	15 630	14 130	29 610	25 730	21 130	1e
Kuwait	142 322 500	147 074 800	134 671 200	136 282 700	133 347 200	1e
Kyrgyzstan	107 100	145 300	173 200	200 000	236 400	1e
Libya	19 996 240	18 809 560	43 757 120	47 343 600	54 609 200	1e
Lithuania	73 540	63 470	55 830	46 030	39 570	1e
Malaysia	32 580 100	33 193 400	32 887 600	32 509 900	30 102 900	1e
Mauritania	263 700	235 600	165 600	0	0	1e
Mexico	126 926 240	120 445 280	109 084 360	101 605 440	94 161 830	1e
Mongolia	1 183 000	1 125 300	1 039 900	871 500	937 900	1e
Morocco	4 998	4 841	4 640	4 840	4 335	1e
Mozambique	63 720	65 080	55 790	51 810	41 250	1e
Myanmar	697 900	608 800	573 400	480 500	429 000	1e
Netherlands	1 844 700	1 273 800	1 222 000	1 129 300	892 600	1e
New Zealand	1 860 880	1 572 040	1 399 820	1 085 650	1 088 120	1e
Niger	744 600	820 300	909 200	827 300	889 600	1e
Nigeria	106 050 000	89 588 000	94 081 000	95 675 000	100 287 000	1e
Norway	88 924 000	91 424 500	89 849 500	84 275 900	79 388 000	1e
Oman	48 844 500	50 135 200	48 308 200	48 710 000	48 339 200	1e
Pakistan	4 627 053	4 246 335	4 329 141	4 441 610	4 433 150	1e
Papua New Guinea	2 951 500	2 907 400	2 656 600	1 898 700	1 889 900	1e
Peru	7 438 300	6 744 300	6 688 300	6 688 500	6 956 200	1e
Philippines	839 700	838 800	750 300	726 300	652 300	1e
Poland	898 870	957 050	939 240	937 040	936 760	1e
Qatar	80 787 000	79 507 000	75 393 515	71 582 598	71 766 435	1p
Romania	4 003 000	3 801 000	3 635 000	3 577 000	3 568 000	1e
Russia	533 551 300	547 306 140	546 742 200	555 833 900	560 256 690	1e
Saudi Arabia	568 034 180	586 712 210	559 319 390	576 817 650	556 564 010	1r
Senegal	22 900	3 320	12 960	20 300	28 500	1e
Serbia	1 050 000	963 532	924 351	910 712	881 000	1e
Slovakia	12 010	9 490	8 160	7 522	6 331	1e
Slovenia	359	379	481	769	490	1e
South Africa	70 978	38 796	31 145	23 770	29 774	1e
South Sudan	7 277 200	5 785 310	6 019 320	6 287 860	6 832 520	1r
Spain	229 568	139 176	118 809	89 476	40 244	1e
Sudan	3 914 700	4 733 100	4 119 300	3 560 000	3 805 600	1e
Suriname	842 950	815 700	811 600	818 400	825 200	1e
Syria	1 197 800	1 101 250	1 078 300	1 051 030	1 024 820	1r
Taiwan	7 900	7 200	4 600	4 000	3 300	1e

Tajikistan	24 630	25 134	23 482	23 939	23 293	1e
Thailand	12 347 720	12 858 430	11 939 770	11 361 710	11 362 120	1e
Trinidad and Tobago	3 917 069	3 570 900	3 576 540	3 165 790	2 930 780	1e
Tunisia	2 584 915	2 438 315	2 065 930	2 027 230	1 859 060	1e
Turkey	2 515 662	2 571 928	2 551 929	2 850 828	2 984 800	1e
Turkmenistan	12 723 740	11 397 000	10 950 000	10 640 000	10 420 000	1n
Ukraine	2 533 300	2 272 100	2 169 900	2 293 300	2 453 600	1e
United Arab Emirates	176 062 450	182 379 600	176 224 330	176 686 680	180 249 910	1r
United Kingdom	45 698 100	47 872 100	47 049 300	51 233 570	52 185 520	1e
United States	606 697 400	585 484 500	620 929 300	724 163 400	806 659 400	1e
Uzbekistan	2 728 100	2 615 400	2 766 600	2 890 915	3 010 894	1e
Venezuela	135 364 100	121 033 000	107 584 000	75 628 110	46 625 600	1r
Vietnam	18 746 000	17 230 000	15 518 000	13 969 000	13 090 000	3e
Yemen	2 367 000	991 000	1 290 600	1 732 300	2 387 000	1e
<b>Total</b>	<b>4 328 939 424</b>	<b>4 339 473 763</b>	<b>4 346 879 979</b>	<b>4 441 599 473</b>	<b>4 437 210 487</b>	

### Oil Sands (part of Petroleum)

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Canada	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700	1e
Venezuela	29 980 000	29 000 000	25 000 000	20 000 000	9 960 000	2n
<b>Total</b>	<b>148 574 300</b>	<b>149 572 400</b>	<b>158 202 900</b>	<b>165 081 000</b>	<b>156 809 700</b>	

### Oil Shales

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Austria	68	169	170	150	100	2n
Estonia	19 616 000	15 764 000	21 625 000	21 883 000	15 697 400	1e
France	2 000	2 000	2 000	2 000	2 000	2n
Germany	468 470	492 777	481 803	494 650	487 012	1e
Israel	420 100	423 100	426 000	414 580	402 882	1e
<b>Total</b>	<b>20 506 638</b>	<b>16 682 046</b>	<b>22 534 973</b>	<b>22 794 380</b>	<b>16 589 394</b>	

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

Country	2015 metr. t	2016 metr. t	2017 metr. t	2018 metr. t	2019 metr. t	Rem
Australia	6 668	7 352	6 736	7 737	7 726	1e
Brazil	51	0	0	0	0	1e
Canada	15 659	16 666	14 394	8 225	8 370	1e
China	1 906	1 906	2 223	2 223	2 223	1d
Czech Republic	158	151	66	40	39	1e
France	2	0	0	0	0	1d
Germany	0	53	40	0	28	1e
India	454	454	496	499	363	2d
Kazakhstan	28 072	29 113	27 500	25 595	26 895	1e
Namibia	3 473	4 308	4 981	6 514	6 459	1e
Niger	4 852	4 101	4 066	3 433	3 516	1n
Pakistan	53	53	53	53	53	2d
Romania	91	59	0	0	0	2d
Russia	3 602	3 543	3 440	3 424	3 433	1e
South Africa	528	450	304	231	163	1e
Ukraine	1 156	1 185	986	1 390	944	1e
United States	1 516	1 323	1 108	657	79	1e
Uzbekistan	3 806	3 921	4 009	4 062	4 127	1e
Total	72 047	74 638	70 402	64 083	64 418	

## 6.5 Share of World Mineral Production 2019, by Countries

### 6.5.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	568 964 594	36.96	36.96	1 366.03
2	( 2)	Brazil	255 272 650	16.58	53.54	274.98
3	( 3)	China	219 375 000	14.25	67.79	203.08
4	( 4)	India	152 600 000	9.91	77.71	98.27
5	( 5)	Russia	60 416 000	3.92	81.63	15.40
6	( 6)	South Africa	47 064 410	3.06	84.69	9.35
7	( 7)	Ukraine	40 451 100	2.63	87.32	6.90
8	( 8)	Canada	33 020 200	2.14	89.46	4.60
9	( 9)	United States	29 547 000	1.92	91.38	3.68
10	(10)	Iran	28 305 000	1.84	93.22	3.38
11	(11)	Sweden	19 367 200	1.26	94.48	1.58
12	(12)	Kazakhstan	14 278 750	0.93	95.40	0.86
13	(16)	Mexico	10 331 270	0.67	96.08	0.45
14	(14)	Peru	10 120 007	0.66	96.73	0.43
15	(13)	Turkey	8 828 800	0.57	97.31	0.33
16	(15)	Chile	8 427 224	0.55	97.85	0.30
17	(17)	Mauritania	7 927 700	0.51	98.37	0.27
18	(18)	Mongolia	4 800 430	0.31	98.68	0.10
19	(19)	Vietnam	3 354 600	0.22	98.90	0.05
20	(20)	Liberia	2 674 800	0.17	99.07	0.03
21	(21)	Malaysia	2 621 100	0.17	99.24	0.03
22	(23)	Venezuela	2 062 800	0.13	99.38	0.02
23	(22)	New Zealand	1 915 000	0.12	99.50	0.02
24	(28)	Indonesia	1 379 300	0.09	99.59	0.01
25	(24)	Korea, North	1 144 700	0.07	99.66	0.01
26	(25)	Norway	1 069 700	0.07	99.73	0.00
27	(26)	Austria	1 037 470	0.07	99.80	0.00
28	(27)	Bosnia-Herzegovina	739 600	0.05	99.85	0.00
29	(29)	Algeria	409 900	0.03	99.88	0.00
30	(32)	Colombia	299 350	0.02	99.90	0.00
31	(30)	Saudi Arabia	294 100	0.02	99.91	0.00
32	(37)	Laos	282 180	0.02	99.93	0.00
33	(31)	Egypt	270 000	0.02	99.95	0.00
34	(33)	Pakistan	238 130	0.02	99.97	0.00
35	(34)	Korea, South	205 410	0.01	99.98	0.00
36	(35)	Tunisia	100 700	0.01	99.99	0.00
37	(36)	Germany	94 100	0.01	99.99	0.00
38	(38)	Bolivia	45 830	0.00	100.00	0.00
39	(40)	Bhutan	23 590	0.00	100.00	0.00
40	(42)	Congo, Rep.	20 200	0.00	100.00	0.00
41	(**)	Thailand	10 950	0.00	100.00	0.00
42	(43)	Namibia	8 400	0.00	100.00	0.00

43	(41)	Morocco	7 150	0.00	100.00	0.00
44	(46)	Uruguay	2 510	0.00	100.00	0.00
45	(47)	Malawi	1 800	0.00	100.00	0.00
46	(48)	Nigeria	1 000	0.00	100.00	0.00
47	(49)	Nepal	80	0.00	100.00	0.00
48	(45)	Guatemala	30	0.00	100.00	0.00
Total			1 539 411 815	100.00		HHI 1 990

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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	7 384 000	46.40	46.40	2 152.83
2	( 2)	Kazakhstan	2 458 800	15.45	61.85	238.71
3	( 3)	India	1 819 200	11.43	73.28	130.67
4	( 4)	Turkey	1 528 700	9.61	82.89	92.27
5	( 7)	Zimbabwe	720 330	4.53	87.41	20.49
6	( 6)	Finland	502 050	3.15	90.57	9.95
7	( 5)	Albania	488 700	3.07	93.64	9.43
8	( 8)	Oman	243 100	1.53	95.17	2.33
9	(10)	Russia	237 600	1.49	96.66	2.23
10	( 9)	Brazil	199 256	1.25	97.91	1.57
11	(11)	Iran	104 400	0.66	98.57	0.43
12	(13)	Papua New Guinea	58 700	0.37	98.94	0.14
13	(14)	Pakistan	57 570	0.36	99.30	0.13
14	(12)	Madagascar	37 300	0.23	99.53	0.05
15	(17)	China	27 250	0.17	99.70	0.03
16	(15)	Philippines	14 570	0.09	99.79	0.01
17	(16)	Greece	12 080	0.08	99.87	0.01
18	(19)	Cuba	10 000	0.06	99.93	0.00
19	(18)	Sudan	8 150	0.05	99.98	0.00
20	(21)	Afghanistan	2 000	0.01	100.00	0.00
21	(20)	Ethiopia	500	0.00	100.00	0.00
Total			15 914 256	100.00		HHI 2 661

### Cobalt

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Congo, D.R.	78 664	62.85	62.85	3 950.34
2	( 2)	Russia	8 700	6.95	69.80	48.32
3	( 5)	Australia	5 746	4.59	74.39	21.08
4	( 4)	Cuba	5 200	4.15	78.55	17.26
5	( 3)	Canada	5 132	4.10	82.65	16.81
6	( 6)	Philippines	3 750	3.00	85.65	8.98
7	( 8)	China	3 000	2.40	88.04	5.75
8	( 9)	Madagascar	2 947	2.35	90.40	5.54
9	( 7)	Papua New Guinea	2 915	2.33	92.73	5.42
10	(11)	Morocco	2 397	1.92	94.64	3.67
11	(10)	New Caledonia	1 703	1.36	96.00	1.85

12	(13)	Finland	1 454	1.16	97.16	1.35
13	(12)	Zambia	1 271	1.02	98.18	1.03
14	(14)	South Africa	1 027	0.82	99.00	0.67
15	(15)	United States	500	0.40	99.40	0.16
16	(16)	Zimbabwe	402	0.32	99.72	0.10
17	(17)	Indonesia	350	0.28	100.00	0.08
Total			125 158	100.00		HHI 4 088

## Manganese

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	6 456 400	30.14	30.14	908.15
2	( 2)	Australia	3 259 200	15.21	45.35	231.42
3	( 3)	Gabon	3 158 100	14.74	60.09	217.29
4	( 4)	Ghana	1 884 050	8.79	68.88	77.33
5	( 5)	Brazil	1 452 034	6.78	75.66	45.93
6	( 6)	China	1 350 000	6.30	81.96	39.71
7	( 7)	India	970 000	4.53	86.49	20.50
8	( 8)	Ukraine	686 100	3.20	89.69	10.26
9	( 9)	Malaysia	474 910	2.22	91.91	4.91
10	(10)	Cote d'Ivoire	472 700	2.21	94.11	4.87
11	(13)	Myanmar	429 000	2.00	96.12	4.01
12	(12)	Mexico	232 957	1.09	97.20	1.18
13	(11)	Kazakhstan	230 700	1.08	98.28	1.16
14	(14)	Georgia	95 000	0.44	98.72	0.20
15	(15)	Iran	50 240	0.23	98.96	0.05
16	(18)	Turkey	39 900	0.19	99.14	0.03
17	(16)	Morocco	35 600	0.17	99.31	0.03
18	(19)	Vietnam	32 000	0.15	99.46	0.02
19	(20)	Indonesia	24 000	0.11	99.57	0.01
20	(22)	Peru	18 814	0.09	99.66	0.01
21	(25)	Kenya	16 600	0.08	99.74	0.01
22	(24)	Namibia	14 660	0.07	99.81	0.00
23	(17)	Zambia	11 970	0.06	99.86	0.00
24	(27)	Romania	9 290	0.04	99.91	0.00
25	(23)	Oman	8 250	0.04	99.94	0.00
26	(31)	Bolivia	3 660	0.02	99.96	0.00
27	(30)	Thailand	2 305	0.01	99.97	0.00
28	(29)	Senegal	1 880	0.01	99.98	0.00
29	(26)	Congo, D.R.	1 780	0.01	99.99	0.00
30	(28)	Sudan	1 000	0.00	99.99	0.00
31	(21)	Nigeria	1 000	0.00	100.00	0.00
32	(32)	Pakistan	390	0.00	100.00	0.00
Total			21 424 490	100.00		HHI 1 567

## Molybdenum

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	104 440	37.77	37.77	1 426.68
2	( 2)	Chile	54 759	19.80	57.58	392.20
3	( 3)	United States	43 600	15.77	73.34	248.64
4	( 4)	Peru	30 441	11.01	84.35	121.20
5	( 5)	Mexico	21 694	7.85	92.20	61.56
6	( 6)	Armenia	7 137	2.58	94.78	6.66
7	( 8)	Iran	4 160	1.50	96.28	2.26
8	( 7)	Canada	3 940	1.42	97.71	2.03
9	( 9)	Mongolia	2 490	0.90	98.61	0.81
10	(10)	Russia	1 989	0.72	99.33	0.52
11	(11)	Uzbekistan	800	0.29	99.62	0.08
12	(12)	Korea, North	530	0.19	99.81	0.04
13	(16)	Korea, South	266	0.10	99.91	0.01
14	(15)	Kazakhstan	258	0.09	100.00	0.01
15	(**)	Norway	1	0.00	100.00	0.00
Total			276 505	100.00		HHI 2 263

## Nickel

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Indonesia	1 036 200	38.25	38.25	1 463.13
2	( 2)	Philippines	323 325	11.94	50.19	142.45
3	( 3)	Russia	233 900	8.63	58.82	74.55
4	( 4)	New Caledonia	209 549	7.74	66.56	59.84
5	( 5)	Canada	180 900	6.68	73.23	44.59
6	( 6)	Australia	158 751	5.86	79.09	34.34
7	( 7)	China	104 674	3.86	82.96	14.93
8	( 8)	Brazil	55 744	2.06	85.02	4.23
9	(10)	Guatemala	55 000	2.03	87.05	4.12
10	( 9)	Cuba	48 900	1.81	88.85	3.26
11	(12)	South Africa	43 443	1.60	90.46	2.57
12	(13)	Colombia	40 571	1.50	91.95	2.24
13	(11)	Finland	38 530	1.42	93.38	2.02
14	(15)	Madagascar	33 887	1.25	94.63	1.56
15	(14)	Papua New Guinea	33 091	1.22	95.85	1.49
16	(17)	Dominican Republic	28 450	1.05	96.90	1.10
17	(16)	Greece	17 240	0.64	97.53	0.41
18	(18)	Zimbabwe	16 918	0.62	98.16	0.39
19	(19)	Myanmar	14 200	0.52	98.68	0.27
20	(20)	United States	13 500	0.50	99.18	0.25
21	(22)	Cote d'Ivoire	9 100	0.34	99.52	0.11
22	(21)	Turkey	4 740	0.17	99.69	0.03
23	(23)	Kosovo	3 360	0.12	99.82	0.02
24	(24)	Albania	2 960	0.11	99.93	0.01

25	(**)	Zambia	1 000	0.04	99.96	0.00
26	(25)	Poland	755	0.03	99.99	0.00
27	(26)	Norway	135	0.00	100.00	0.00
28	(27)	Morocco	131	0.00	100.00	0.00
Total			2 708 954	100.00		HHI 1 858

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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Brazil	127 220	93.89	93.89	8 815.72
2	( 2)	Canada	6 800	5.02	98.91	25.19
3	( 3)	Russia	659	0.49	99.40	0.24
4	( 4)	Congo, D.R.	415	0.31	99.70	0.09
5	( 5)	Rwanda	200	0.15	99.85	0.02
6	( 6)	Nigeria	150	0.11	99.96	0.01
7	( 8)	China	20	0.01	99.98	0.00
8	( 7)	Ethiopia	14	0.01	99.99	0.00
9	( 9)	Mozambique	11	0.01	99.99	0.00
10	(10)	Burundi	5	0.00	100.00	0.00
11	(11)	Uganda	2	0.00	100.00	0.00
Total			135 496	100.00		HHI 8 841

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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Congo, D.R.	440	27.78	27.78	771.60
2	( 2)	Rwanda	310	19.57	47.35	383.01
3	( 4)	Brazil	250	15.78	63.13	249.10
4	( 3)	Nigeria	200	12.63	75.76	159.42
5	( 6)	China	135	8.52	84.28	72.64
6	( 9)	Australia	80	5.05	89.33	25.51
7	( 7)	Mozambique	59	3.72	93.06	13.87
8	( 5)	Ethiopia	50	3.16	96.21	9.96
9	( 8)	Russia	32	2.02	98.23	4.08
10	(10)	Malaysia	10	0.63	98.86	0.40
11	(11)	Bolivia	10	0.63	99.49	0.40
12	(12)	Burundi	8	0.51	100.00	0.26
Total			1 584	100.00		HHI 1 690



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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 306 900	29.83	29.83	889.59
2	( 2)	South Africa	970 000	12.54	42.37	157.28
3	( 3)	Australia	780 465	10.09	52.46	101.82
4	( 4)	Canada	640 000	8.27	60.73	68.47
5	( 6)	Ukraine	564 050	7.29	68.03	53.18
6	( 5)	Mozambique	498 900	6.45	74.48	41.61
7	( 8)	Senegal	281 030	3.63	78.11	13.20
8	( 7)	Kenya	262 660	3.40	81.50	11.53
9	( 9)	Madagascar	258 800	3.35	84.85	11.20
10	(10)	Norway	211 280	2.73	87.58	7.46
11	(12)	Sierra Leone	165 180	2.14	89.72	4.56
12	(14)	Korea, South	162 790	2.10	91.82	4.43
13	(11)	India	159 900	2.07	93.89	4.27
14	(13)	Vietnam	140 970	1.82	95.71	3.32
15	(15)	United States	100 000	1.29	97.01	1.67
16	(17)	Brazil	81 650	1.06	98.06	1.11
17	(16)	Kazakhstan	60 000	0.78	98.84	0.60
18	(**)	Burundi	42 900	0.55	99.39	0.31
19	(18)	Sri Lanka	25 940	0.34	99.73	0.11
20	(20)	Malaysia	6 930	0.09	99.82	0.01
21	(21)	Turkey	6 130	0.08	99.90	0.01
22	(19)	Iran	4 880	0.06	99.96	0.00
23	(22)	Russia	3 100	0.04	100.00	0.00
24	(23)	Thailand	64	0.00	100.00	0.00
		Total	7 734 519	100.00		HHI 1 376

## Tungsten (W-Content)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	72 200	83.80	83.80	7 023.18
2	( 2)	Vietnam	4 816	5.59	89.39	31.25
3	( 3)	Russia	2 433	2.82	92.22	7.98
4	( 4)	Korea, North	1 130	1.31	93.53	1.72
5	( 6)	Rwanda	1 120	1.30	94.83	1.69
6	( 5)	Bolivia	1 064	1.24	96.07	1.53
7	( 7)	Austria	892	1.04	97.10	1.07
8	(10)	Portugal	518	0.60	97.70	0.36
9	(12)	Brazil	431	0.50	98.20	0.25
10	(11)	Mongolia	370	0.43	98.63	0.18
11	( 9)	Spain	341	0.40	99.03	0.16
12	(15)	Congo, D.R.	210	0.24	99.27	0.06
13	(16)	Burundi	150	0.17	99.45	0.03
14	(14)	Uganda	144	0.17	99.61	0.03
15	(13)	Myanmar	130	0.15	99.76	0.02
16	(17)	Uzbekistan	100	0.12	99.88	0.01
17	(19)	Thailand	37	0.04	99.92	0.00

18	(21)	Zimbabwe	37	0.04	99.97	0.00
19	(18)	Nigeria	15	0.02	99.98	0.00
20	(20)	Mexico	15	0.02	100.00	0.00
Total			86 153	100.00		HHI 7 070

## Vanadium (V-Content)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	56 000	62.02	62.02	3 846.01
2	( 2)	Russia	18 380	20.35	82.37	414.31
3	( 3)	South Africa	7 964	8.82	91.19	77.79
4	( 4)	Brazil	7 045	7.80	98.99	60.87
5	(**)	United States	460	0.51	99.50	0.26
6	( 5)	India	450	0.50	100.00	0.25
Total			90 299	100.00		HHI 4 399

## 6.5.2 Non-Ferrous Metals

### Aluminium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	35 043 600	55.75	55.75	3 108.33
2	( 3)	Russia	3 637 000	5.79	61.54	33.48
3	( 2)	India	3 635 089	5.78	67.32	33.45
4	( 4)	Canada	2 853 771	4.54	71.86	20.61
5	( 5)	United Arab Emirates	2 579 000	4.10	75.97	16.83
6	( 6)	Australia	1 569 591	2.50	78.46	6.24
7	( 8)	Bahrain	1 365 005	2.17	80.63	4.72
8	( 7)	Norway	1 337 500	2.13	82.76	4.53
9	(10)	United States	1 126 032	1.79	84.55	3.21
10	( 9)	Saudi Arabia	967 000	1.54	86.09	2.37
11	(11)	Malaysia	760 000	1.21	87.30	1.46
12	(13)	South Africa	717 000	1.14	88.44	1.30
13	(12)	Iceland	682 616	1.09	89.53	1.18
14	(14)	Brazil	650 200	1.03	90.56	1.07
15	(15)	Qatar	627 400	1.00	91.56	1.00
16	(16)	Mozambique	564 756	0.90	92.46	0.81
17	(17)	Germany	507 934	0.81	93.27	0.65
18	(18)	Argentina	438 434	0.70	93.96	0.49
19	(19)	France	401 850	0.64	94.60	0.41
20	(20)	Oman	390 515	0.62	95.22	0.39
21	(22)	New Zealand	351 481	0.56	95.78	0.31
22	(25)	Egypt	290 000	0.46	96.25	0.21
23	(24)	Romania	280 326	0.45	96.69	0.20
24	(26)	Kazakhstan	264 895	0.42	97.11	0.18

25	(23)	Iran	258 166	0.41	97.52	0.17
26	(27)	Indonesia	233 457	0.37	97.89	0.14
27	(21)	Spain	230 000	0.37	98.26	0.13
28	(28)	Greece	186 903	0.30	98.56	0.09
29	(29)	Slovakia	174 794	0.28	98.84	0.08
30	(31)	Sweden	120 000	0.19	99.03	0.04
31	(32)	Tajikistan	100 800	0.16	99.19	0.03
32	(40)	Netherlands	81 100	0.13	99.32	0.02
33	(34)	Turkey	78 100	0.12	99.44	0.02
34	(33)	Slovenia	68 255	0.11	99.55	0.01
35	(30)	Bosnia-Herzegovina	67 690	0.11	99.66	0.01
36	(35)	Cameroon	51 700	0.08	99.74	0.01
37	(39)	Ghana	45 150	0.07	99.81	0.01
38	(38)	United Kingdom	39 400	0.06	99.87	0.00
39	(41)	Montenegro	36 552	0.06	99.93	0.00
40	(37)	Azerbaijan	32 700	0.05	99.98	0.00
41	(36)	Venezuela	10 000	0.02	100.00	0.00
		Total	62 855 762	100.00		HHI 3 244

## Antimony

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	60 229	48.00	48.00	2 303.97
2	( 3)	Tajikistan	29 300	23.35	71.35	545.26
3	( 2)	Russia	21 671	17.27	88.62	298.28
4	( 7)	Myanmar	4 500	3.59	92.21	12.86
5	( 4)	Turkey	3 815	3.04	95.25	9.24
6	( 5)	Bolivia	2 747	2.19	97.44	4.79
7	( 6)	Australia	2 032	1.62	99.06	2.62
8	( 8)	Iran	330	0.26	99.32	0.07
9	(12)	Vietnam	305	0.24	99.56	0.06
10	(11)	Mexico	289	0.23	99.79	0.05
11	(**)	Guatemala	150	0.12	99.91	0.01
12	(10)	Laos	70	0.06	99.97	0.00
13	( 9)	Kyrgyzstan	20	0.02	99.98	0.00
14	(14)	Honduras	15	0.01	100.00	0.00
15	(16)	Canada	5	0.00	100.00	0.00
		Total	125 478	100.00		HHI 3 177

## Arsenic

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 2)	Peru	24 915	43.99	43.99	1 934.91
2	( 1)	China	24 000	42.37	86.36	1 795.40
3	( 3)	Morocco	5 055	8.92	95.28	79.65
4	( 4)	Russia	1 500	2.65	97.93	7.01

5	( 5)	Belgium	1 000	1.77	99.70	3.12
6	( 6)	Bolivia	126	0.22	99.92	0.05
7	( 7)	Japan	45	0.08	100.00	0.01
		Total	56 641	100.00		HHI 3 820

### Bauxite (crude ore)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	105 543 787	29.04	29.04	843.42
2	( 2)	China	75 000 000	20.64	49.68	425.89
3	( 3)	Guinea	70 173 326	19.31	68.99	372.84
4	( 4)	Brazil	31 937 900	8.79	77.78	77.23
5	( 5)	India	21 823 793	6.01	83.78	36.06
6	( 6)	Indonesia	16 592 740	4.57	88.35	20.85
7	( 7)	Jamaica	9 022 286	2.48	90.83	6.16
8	( 8)	Russia	6 641 000	1.83	92.66	3.34
9	(10)	Saudi Arabia	5 127 000	1.41	94.07	1.99
10	( 9)	Kazakhstan	4 118 400	1.13	95.20	1.28
11	(11)	Vietnam	3 700 000	1.02	96.22	1.04
12	(19)	Turkey	2 255 480	0.62	96.84	0.39
13	(13)	Guyana	1 919 747	0.53	97.37	0.28
14	(12)	Sierra Leone	1 883 863	0.52	97.89	0.27
15	(15)	Greece	1 379 123	0.38	98.27	0.14
16	(14)	Solomon Islands	1 234 030	0.34	98.61	0.12
17	(16)	Ghana	1 116 334	0.31	98.91	0.09
18	(18)	Bosnia-Herzegovina	1 043 343	0.29	99.20	0.08
19	(20)	Malaysia	900 561	0.25	99.45	0.06
20	(17)	Iran	828 788	0.23	99.68	0.05
21	(21)	Montenegro	774 725	0.21	99.89	0.05
22	(22)	United States	154 900	0.04	99.93	0.00
23	(23)	Pakistan	94 149	0.03	99.96	0.00
24	(25)	France	70 000	0.02	99.98	0.00
25	(24)	Venezuela	50 000	0.01	99.99	0.00
26	(27)	Croatia	14 342	0.00	99.99	0.00
27	(29)	Colombia	13 533	0.00	100.00	0.00
28	(28)	Mozambique	8 024	0.00	100.00	0.00
		Total	363 421 174	100.00		HHI 1 792

### Beryllium (concentrates)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	4 050	68.04	68.04	4 630.03
2	( 2)	China	1 750	29.40	97.45	864.47
3	( 5)	Brazil	70	1.18	98.62	1.38
4	( 4)	Madagascar	30	0.50	99.13	0.25

5	( 6)	Nigeria	25	0.42	99.55	0.18
6	( 7)	Rwanda	20	0.34	99.88	0.11
7	( 8)	Zambia	7	0.12	100.00	0.01
Total			5 952	100.00		HHI 5 496

## Bismuth

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	7 000	77.28	77.28	5 972.16
2	( 2)	Vietnam	917	10.12	87.40	102.49
3	( 3)	Japan	540	5.96	93.36	35.54
4	( 4)	Mexico	291	3.21	96.58	10.32
5	( 5)	Kazakhstan	200	2.21	98.79	4.88
6	( 6)	Peru	73	0.81	99.59	0.65
7	( 8)	Russia	30	0.33	99.92	0.11
8	( 9)	Canada	5	0.06	99.98	0.00
9	(**)	Uzbekistan	2	0.02	100.00	0.00
Total			9 058	100.00		HHI 6 126

## Cadmium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	8 450	35.66	35.66	1 271.53
2	( 2)	Korea, South	3 950	16.67	52.33	277.85
3	( 3)	Japan	2 000	8.44	60.77	71.23
4	( 4)	Canada	1 803	7.61	68.38	57.89
5	( 7)	Kazakhstan	1 200	5.06	73.44	25.64
6	( 6)	Russia	1 000	4.22	77.66	17.81
7	( 5)	Mexico	952	4.02	81.68	16.14
8	( 9)	Netherlands	900	3.80	85.47	14.42
9	( 8)	Peru	772	3.26	88.73	10.61
10	(10)	Germany	620	2.62	91.35	6.85
11	(15)	Brazil	450	1.90	93.25	3.61
12	(11)	Norway	370	1.56	94.81	2.44
13	(12)	Bulgaria	315	1.33	96.14	1.77
14	(14)	United States	250	1.05	97.19	1.11
15	(16)	Uzbekistan	250	1.05	98.25	1.11
16	(13)	Poland	220	0.93	99.18	0.86
17	(17)	Korea, North	150	0.63	99.81	0.40
18	(18)	Argentina	45	0.19	100.00	0.04
Total			23 697	100.00		HHI 1 781

## Copper

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Chile	5 787 400	27.99	27.99	783.69
2	( 2)	Peru	2 455 440	11.88	39.87	141.07
3	( 3)	China	1 683 450	8.14	48.01	66.31
4	( 4)	Congo, D.R.	1 461 124	7.07	55.08	49.95
5	( 5)	United States	1 260 000	6.09	61.18	37.15
6	( 6)	Australia	934 055	4.52	65.70	20.41
7	( 7)	Russia	812 400	3.93	69.63	15.44
8	( 8)	Zambia	789 942	3.82	73.45	14.60
9	( 9)	Mexico	713 704	3.45	76.90	11.92
10	(11)	Kazakhstan	604 470	2.92	79.82	8.55
11	(12)	Canada	560 800	2.71	82.54	7.36
12	(13)	Poland	398 900	1.93	84.46	3.72
13	(14)	Brazil	363 268	1.76	86.22	3.09
14	(10)	Indonesia	351 080	1.70	87.92	2.88
15	(15)	Iran	308 270	1.49	89.41	2.22
16	(16)	Mongolia	292 110	1.41	90.82	2.00
17	(18)	Myanmar	219 200	1.06	91.88	1.12
18	(17)	Spain	170 700	0.83	92.71	0.68
19	(**)	Panama	147 480	0.71	93.42	0.51
20	(20)	Uzbekistan	147 000	0.71	94.13	0.51
21	(19)	Laos	140 935	0.68	94.82	0.46
22	(21)	Bulgaria	114 240	0.55	95.37	0.31
23	(23)	Papua New Guinea	99 432	0.48	95.85	0.23
24	(22)	Sweden	99 332	0.48	96.33	0.23
25	(26)	Armenia	91 214	0.44	96.77	0.19
26	(24)	Turkey	73 300	0.35	97.13	0.13
27	(25)	Philippines	71 892	0.35	97.47	0.12
28	(27)	Saudi Arabia	68 580	0.33	97.81	0.11
29	(29)	South Africa	52 501	0.25	98.06	0.06
30	(31)	Serbia	43 550	0.21	98.27	0.04
31	(28)	Portugal	41 553	0.20	98.47	0.04
32	(30)	Finland	32 861	0.16	98.63	0.03
33	(33)	Morocco	30 720	0.15	98.78	0.02
34	(36)	Vietnam	29 620	0.14	98.92	0.02
35	(35)	Mauritania	29 620	0.14	99.07	0.02
36	(34)	India	29 550	0.14	99.21	0.02
37	(37)	Congo, Rep.	18 760	0.09	99.30	0.01
38	(39)	Eritrea	16 008	0.08	99.38	0.01
39	(41)	Namibia	14 940	0.07	99.45	0.01
40	(44)	Tanzania	14 187	0.07	99.52	0.00
41	(43)	Pakistan	13 049	0.06	99.58	0.00
42	(32)	Ecuador	9 900	0.05	99.63	0.00
43	(49)	Romania	9 180	0.04	99.67	0.00
44	(46)	Zimbabwe	8 731	0.04	99.72	0.00
45	(47)	Kyrgyzstan	8 640	0.04	99.76	0.00
46	(50)	Tajikistan	8 500	0.04	99.80	0.00
47	(45)	Colombia	7 641	0.04	99.83	0.00
48	(51)	North Macedonia	7 231	0.03	99.87	0.00
49	(48)	Dominican Republic	6 047	0.03	99.90	0.00
50	(53)	Albania	5 900	0.03	99.93	0.00
51	(40)	Georgia	5 500	0.03	99.95	0.00
52	(52)	Bolivia	4 478	0.02	99.98	0.00
53	(54)	Azerbaijan	2 213	0.01	99.99	0.00
54	(42)	Korea, North	2 000	0.01	100.00	0.00

55	(56)	Cyprus	703	0.00	100.00	0.00
56	(57)	Germany	40	0.00	100.00	0.00
57	(58)	Slovakia	17	0.00	100.00	0.00
		Total	20 673 358	100.00		HHI 1 175

## Gallium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	356	95.19	95.19	9 060.60
2	( 3)	Russia	8	2.14	97.33	4.58
3	( 2)	Ukraine	5	1.34	98.66	1.79
4	( 5)	Japan	3	0.80	99.47	0.64
5	( 4)	Korea, South	2	0.53	100.00	0.29
		Total	374	100.00		HHI 9 068

## Germanium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	85	89.47	89.47	8 005.54
2	( 2)	Russia	5	5.26	94.74	27.70
3	( 3)	United States	2	2.11	96.84	4.43
4	( 4)	Japan	2	2.11	98.95	4.43
5	( 5)	Ukraine	1	1.05	100.00	1.11
		Total	95	100.00		HHI 8 043

## Indium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	490	54.69	54.69	2 990.72
2	( 2)	Korea, South	225	25.11	79.80	630.59
3	( 3)	Japan	70	7.81	87.61	61.04
4	( 4)	Canada	61	6.81	94.42	46.35
5	( 6)	Belgium	20	2.23	96.65	4.98
6	( 5)	France	19	2.12	98.77	4.50
7	( 8)	Russia	6	0.67	99.44	0.45
8	( 7)	Peru	5	0.56	100.00	0.31
		Total	896	100.00		HHI 3 739

## Lead

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 097 000	42.21	42.21	1 781.70
2	( 2)	Australia	509 198	10.25	52.46	105.05
3	( 5)	Mexico	372 106	7.49	59.95	56.10
4	( 3)	Peru	308 116	6.20	66.15	38.47
5	( 4)	United States	274 000	5.52	71.67	30.42
6	( 7)	Russia	207 900	4.18	75.85	17.51
7	( 6)	India	202 960	4.09	79.94	16.69
8	( 8)	Bolivia	88 002	1.77	81.71	3.14
9	(13)	Iran	72 500	1.46	83.17	2.13
10	(10)	Turkey	71 480	1.44	84.61	2.07
11	(11)	Sweden	68 635	1.38	85.99	1.91
12	(12)	Tajikistan	65 570	1.32	87.31	1.74
13	( 9)	Kazakhstan	55 700	1.12	88.43	1.26
14	(15)	Poland	48 510	0.98	89.41	0.95
15	(14)	North Macedonia	43 490	0.88	90.28	0.77
16	(16)	South Africa	42 936	0.86	91.15	0.75
17	(20)	Cuba	36 000	0.72	91.87	0.53
18	(21)	Myanmar	35 090	0.71	92.58	0.50
19	(18)	Morocco	32 770	0.66	93.24	0.44
20	(19)	Argentina	29 768	0.60	93.84	0.36
21	(23)	Spain	28 000	0.56	94.40	0.32
22	(24)	Portugal	27 852	0.56	94.96	0.31
23	(22)	Bulgaria	25 920	0.52	95.48	0.27
24	(17)	Korea, North	25 000	0.50	95.98	0.25
25	(25)	Nigeria	23 550	0.47	96.46	0.22
26	(26)	Canada	22 608	0.46	96.91	0.21
27	(36)	Uzbekistan	20 000	0.40	97.32	0.16
28	(27)	Ireland	16 053	0.32	97.64	0.10
29	(28)	Greece	14 818	0.30	97.94	0.09
30	(30)	Serbia	13 930	0.28	98.22	0.08
31	(32)	Mongolia	13 500	0.27	98.49	0.07
32	(29)	Vietnam	12 500	0.25	98.74	0.06
33	(33)	Honduras	12 308	0.25	98.99	0.06
34	(31)	Indonesia	10 820	0.22	99.21	0.05
35	(37)	Pakistan	8 090	0.16	99.37	0.03
36	(35)	Bosnia-Herzegovina	7 470	0.15	99.52	0.02
37	(39)	Namibia	6 320	0.13	99.65	0.02
38	(34)	Brazil	5 715	0.12	99.76	0.01
39	(38)	Kosovo	4 000	0.08	99.84	0.01
40	(40)	Montenegro	3 480	0.07	99.91	0.00
41	(41)	Korea, South	1 930	0.04	99.95	0.00
42	(**)	Finland	937	0.02	99.97	0.00
43	(42)	Romania	520	0.01	99.98	0.00
44	(45)	Guatemala	377	0.01	99.99	0.00
45	(44)	Laos	250	0.01	99.99	0.00
46	(47)	United Kingdom	200	0.00	100.00	0.00
47	(46)	Slovakia	111	0.00	100.00	0.00
48	(43)	Chile	7	0.00	100.00	0.00
		Total	4 967 997	100.00		HHI 2 065



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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	103 000	54.32	54.32	2 951.19
2	( 2)	Chile	47 770	25.20	79.52	634.80
3	( 3)	China	16 600	8.76	88.28	76.65
4	( 4)	Argentina	13 670	7.21	95.49	51.98
5	( 6)	Zimbabwe	2 650	1.40	96.88	1.95
6	( 9)	Brazil	2 390	1.26	98.14	1.59
7	( 7)	United States	1 400	0.74	98.88	0.55
8	( 5)	Canada	1 200	0.63	99.51	0.40
9	( 8)	Portugal	710	0.37	99.89	0.14
10	(12)	Bolivia	160	0.08	99.97	0.01
11	(11)	Nigeria	50	0.03	100.00	0.00
		Total	189 600	100.00		HHI 3 719

## Mercury

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 232	91.03	91.03	8 286.05
2	( 3)	Tajikistan	80	3.26	94.29	10.64
3	( 5)	Russia	50	2.04	96.33	4.16
4	( 6)	Argentina	50	2.04	98.37	4.16
5	( 4)	Kyrgyzstan	20	0.82	99.18	0.67
6	( 7)	United States	15	0.61	99.80	0.37
7	( 8)	Morocco	5	0.20	100.00	0.04
		Total	2 452	100.00		HHI 8 306

## Rare Earth Minerals (REO-Content)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	132 000	65.24	65.24	4 256.88
2	( 4)	United States	28 000	13.84	79.08	191.54
3	( 3)	Australia	17 613	8.71	87.79	75.79
4	( 2)	Myanmar	17 100	8.45	96.24	71.44
5	( 5)	India	4 200	2.08	98.32	4.31
6	( 6)	Russia	2 620	1.30	99.61	1.68
7	( 7)	Brazil	600	0.30	99.91	0.09
8	( 9)	Malaysia	114	0.06	99.97	0.00
9	( 8)	Burundi	68	0.03	100.00	0.00
		Total	202 315	100.00		HHI 4 602

## Rhenium

Rank 2019	Rank 2018	Country	Production 2019 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Chile	24 003	54.70	54.70	2 991.84
2	( 2)	United States	8 360	19.05	73.75	362.93
3	( 3)	Poland	5 770	13.15	86.90	172.89
4	( 4)	China	2 500	5.70	92.59	32.46
5	( 5)	Kazakhstan	1 000	2.28	94.87	5.19
6	( 6)	Russia	1 000	2.28	97.15	5.19
7	( 7)	Uzbekistan	800	1.82	98.97	3.32
8	( 8)	Armenia	450	1.03	100.00	1.05
		Total	43 883	100.00		HHI 3 575

## Selenium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	1 250	35.97	35.97	1 293.93
2	( 2)	Japan	740	21.29	57.27	453.48
3	( 3)	Germany	300	8.63	65.90	74.53
4	( 4)	Belgium	200	5.76	71.65	33.12
5	( 5)	Russia	193	5.55	77.21	30.85
6	( 6)	United States	160	4.60	81.81	21.20
7	( 8)	Mexico	127	3.65	85.47	13.36
8	( 7)	Finland	115	3.31	88.78	10.95
9	( 9)	Philippines	100	2.88	91.65	8.28
10	(11)	Poland	76	2.19	93.84	4.78
11	(12)	Peru	60	1.73	95.57	2.98
12	(10)	Canada	57	1.64	97.21	2.69
13	(14)	Uzbekistan	30	0.86	98.07	0.75
14	(13)	Sweden	20	0.58	98.65	0.33
15	(15)	Serbia	20	0.58	99.22	0.33
16	(16)	India	17	0.49	99.71	0.24
17	(17)	Kazakhstan	10	0.29	100.00	0.08
		Total	3 475	100.00		HHI 1 952

## Tellurium

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	380	62.91	62.91	3 958.16
2	(**)	United States	50	8.28	71.19	68.53
3	( 2)	Japan	50	8.28	79.47	68.53
4	( 3)	Sweden	41	6.79	86.26	46.08
5	( 5)	Canada	40	6.62	92.88	43.86

6	( 4)	Russia	38	6.29	99.17	39.58
7	( 6)	Bulgaria	3	0.50	99.67	0.25
8	( 7)	Uzbekistan	2	0.33	100.00	0.11
		Total	604	100.00		HHI 4 225

## Tin

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	85 840	29.15	29.15	849.50
2	( 2)	Indonesia	76 390	25.94	55.08	672.75
3	( 3)	Myanmar	38 900	13.21	68.29	174.45
4	( 4)	Peru	19 853	6.74	75.03	45.44
5	( 6)	Bolivia	17 194	5.84	80.87	34.08
6	( 5)	Brazil	14 867	5.05	85.92	25.48
7	( 7)	Congo, D.R.	10 990	3.73	89.65	13.92
8	( 9)	Australia	7 738	2.63	92.28	6.90
9	( 8)	Nigeria	6 900	2.34	94.62	5.49
10	(10)	Vietnam	6 031	2.05	96.67	4.19
11	(11)	Malaysia	3 611	1.23	97.89	1.50
12	(12)	Rwanda	2 685	0.91	98.81	0.83
13	(13)	Russia	2 471	0.84	99.64	0.70
14	(14)	Laos	530	0.18	99.82	0.03
15	(18)	Spain	147	0.05	99.87	0.00
16	(16)	Burundi	143	0.05	99.92	0.00
17	(17)	Portugal	108	0.04	99.96	0.00
18	(20)	Thailand	46	0.02	99.98	0.00
19	(21)	Mongolia	20	0.01	99.98	0.00
20	(23)	Tanzania	18	0.01	99.99	0.00
21	(19)	Uganda	15	0.01	99.99	0.00
22	(22)	India	12	0.00	100.00	0.00
23	(**)	Namibia	7	0.00	100.00	0.00
		Total	294 516	100.00		HHI 1 835

## Zinc

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	4 353 000	33.04	33.04	1 091.66
2	( 2)	Peru	1 404 382	10.66	43.70	113.63
3	( 3)	Australia	1 337 321	10.15	53.85	103.03
4	( 6)	Mexico	859 194	6.52	60.37	42.53
5	( 4)	United States	753 000	5.72	66.09	32.67
6	( 5)	India	723 410	5.49	71.58	30.15
7	( 7)	Bolivia	527 521	4.00	75.58	16.03
8	( 8)	Canada	323 000	2.45	78.03	6.01
9	(10)	Russia	275 400	2.09	80.12	4.37
10	(11)	Sweden	247 657	1.88	82.00	3.53
11	( 9)	Kazakhstan	244 700	1.86	83.86	3.45
12	(15)	Iran	209 900	1.59	85.45	2.54

13	(13)	Brazil	163 394	1.24	86.69	1.54
14	(14)	Portugal	161 569	1.23	87.92	1.50
15	(12)	Turkey	146 800	1.11	89.04	1.24
16	(31)	South Africa	125 157	0.95	89.99	0.90
17	(18)	Namibia	124 630	0.95	90.93	0.89
18	(16)	Ireland	122 463	0.93	91.86	0.86
19	(17)	Eritrea	121 260	0.92	92.78	0.85
20	(20)	Burkina Faso	106 680	0.81	93.59	0.66
21	(19)	Spain	106 000	0.80	94.40	0.65
22	(22)	Tajikistan	90 860	0.69	95.09	0.48
23	(21)	Finland	69 800	0.53	95.61	0.28
24	(27)	Cuba	57 830	0.44	96.05	0.19
25	(24)	Uzbekistan	45 000	0.34	96.40	0.12
26	(23)	Morocco	43 570	0.33	96.73	0.11
27	(25)	Mongolia	41 550	0.32	97.04	0.10
28	(26)	Poland	40 000	0.30	97.34	0.09
29	(33)	Pakistan	37 365	0.28	97.63	0.08
30	(32)	Saudi Arabia	31 870	0.24	97.87	0.06
31	(29)	North Macedonia	31 040	0.24	98.11	0.06
32	(30)	Honduras	29 454	0.22	98.33	0.05
33	(28)	Korea, North	25 700	0.20	98.52	0.04
34	(34)	Nigeria	23 310	0.18	98.70	0.03
35	(37)	Greece	22 322	0.17	98.87	0.03
36	(28)	Bulgaria	21 830	0.17	99.04	0.03
37	(39)	Indonesia	21 020	0.16	99.20	0.03
38	(36)	Argentina	14 877	0.11	99.31	0.01
39	(40)	Myanmar	13 680	0.10	99.41	0.01
40	(41)	Vietnam	13 000	0.10	99.51	0.01
41	(42)	Serbia	10 560	0.08	99.59	0.01
42	(43)	Montenegro	9 520	0.07	99.66	0.01
43	(44)	Bosnia-Herzegovina	9 160	0.07	99.73	0.00
44	(45)	Armenia	7 162	0.05	99.79	0.00
45	(35)	Chile	5 620	0.04	99.83	0.00
46	(46)	Dominican Republic	5 527	0.04	99.87	0.00
47	(52)	Congo, Rep.	4 830	0.04	99.91	0.00
48	(47)	Korea, South	4 110	0.03	99.94	0.00
49	(48)	Kosovo	3 100	0.02	99.96	0.00
50	(50)	Congo, D.R.	1 607	0.01	99.98	0.00
51	(53)	Romania	1 260	0.01	99.99	0.00
52	(49)	Laos	1 250	0.01	100.00	0.00
53	(51)	Algeria	500	0.00	100.00	0.00
54	(54)	Slovakia	119	0.00	100.00	0.00
Total			13 174 841	100.00		HHI 1 461

### 6.5.3 Precious Metals

#### Gold

Rank 2019	Rank 2018	Country	Production 2019 kg	Share in %	Share cum. %	Share HHI
1	( 1)	China	380 230	11.55	11.55	133.38
2	( 2)	Australia	325 711	9.89	21.44	97.88
3	( 3)	Russia	305 050	9.27	30.71	85.85

4	( 4)	United States	200 000	6.07	36.78	36.90
5	( 5)	Canada	182 783	5.55	42.33	30.82
6	( 6)	Ghana	142 381	4.32	46.66	18.70
7	( 7)	Mexico	133 893	4.07	50.73	16.54
8	( 8)	Peru	128 413	3.90	54.63	15.21
9	( 9)	Indonesia	108 900	3.31	57.93	10.94
10	(11)	Kazakhstan	106 559	3.24	61.17	10.48
11	(10)	South Africa	105 185	3.19	64.37	10.21
12	(13)	Uzbekistan	93 000	2.82	67.19	7.98
13	(14)	Brazil	89 988	2.73	69.92	7.47
14	(15)	Papua New Guinea	70 450	2.14	72.06	4.58
15	(16)	Mali	66 739	2.03	74.09	4.11
16	(12)	Sudan	57 700	1.75	75.84	3.07
17	(17)	Argentina	53 092	1.61	77.46	2.60
18	(18)	Burkina Faso	50 302	1.53	78.98	2.33
19	(19)	Tanzania	48 408	1.47	80.45	2.16
20	(25)	Bolivia	42 000	1.28	81.73	1.63
21	(26)	Turkey	39 000	1.18	82.91	1.40
22	(20)	Chile	38 455	1.17	84.08	1.36
23	(22)	Colombia	36 676	1.11	85.20	1.24
24	(21)	Congo, D.R.	33 752	1.03	86.22	1.05
25	(29)	Cote d'Ivoire	32 568	0.99	87.21	0.98
26	(24)	Dominican Republic	31 873	0.97	88.18	0.94
27	(23)	Zimbabwe	29 429	0.89	89.07	0.80
28	(28)	Guinea	27 708	0.84	89.91	0.71
29	(27)	Suriname	24 516	0.74	90.66	0.55
30	(30)	Kyrgyzstan	23 797	0.72	91.38	0.52
31	(31)	Philippines	20 646	0.63	92.01	0.39
32	(33)	Guyana	19 963	0.61	92.62	0.37
33	(32)	Mongolia	16 300	0.50	93.11	0.25
34	(34)	Egypt	14 946	0.45	93.56	0.21
35	(36)	Senegal	14 550	0.44	94.01	0.20
36	(41)	Mauritania	13 554	0.41	94.42	0.17
37	(35)	Saudi Arabia	12 418	0.38	94.80	0.14
38	(40)	Korea, North	10 000	0.30	95.10	0.09
39	(47)	Nicaragua	9 190	0.28	95.38	0.08
40	(42)	Venezuela	9 100	0.28	95.66	0.08
41	(38)	Nigeria	9 000	0.27	95.93	0.07
42	(37)	New Zealand	8 217	0.25	96.18	0.06
43	(48)	Iran	8 140	0.25	96.43	0.06
44	(52)	Tajikistan	8 100	0.25	96.67	0.06
45	(46)	Sweden	7 972	0.24	96.91	0.06
46	(44)	Finland	7 927	0.24	97.15	0.06
47	(43)	Bulgaria	7 467	0.23	97.38	0.05
48	(50)	Namibia	7 016	0.21	97.59	0.05
49	(51)	Japan	6 313	0.19	97.79	0.04
50	(45)	Ecuador	6 293	0.19	97.98	0.04
51	(55)	Armenia	5 825	0.18	98.15	0.03
52	(54)	Laos	5 207	0.16	98.31	0.03
53	(49)	Liberia	4 903	0.15	98.46	0.02
54	(57)	Zambia	4 522	0.14	98.60	0.02
55	(58)	Costa Rica	4 500	0.14	98.74	0.02
56	(56)	Azerbaijan	3 897	0.12	98.85	0.01
57	(60)	Malaysia	3 151	0.10	98.95	0.01
58	(65)	Honduras	3 035	0.09	99.04	0.01
59	(59)	Ethiopia	2 800	0.09	99.13	0.01
60	(62)	Georgia	2 620	0.08	99.21	0.01
61	(63)	Greece	2 333	0.07	99.28	0.01
62	(61)	Madagascar	2 059	0.06	99.34	0.00
63	(39)	Togo	2 000	0.06	99.40	0.00
64	(64)	Rwanda	2 000	0.06	99.46	0.00
65	(66)	Spain	1 913	0.06	99.52	0.00

66	(**)	Panama	1 869	0.06	99.58	0.00
67	(67)	India	1 724	0.05	99.63	0.00
68	(72)	Serbia	1 452	0.04	99.67	0.00
69	(53)	Niger	1 208	0.04	99.71	0.00
70	(69)	Fiji	1 106	0.03	99.74	0.00
71	(68)	French Guiana	1 105	0.03	99.78	0.00
72	(70)	Botswana	943	0.03	99.80	0.00
73	(76)	Poland	674	0.02	99.83	0.00
74	(73)	North Macedonia	593	0.02	99.84	0.00
75	(74)	Burundi	573	0.02	99.86	0.00
76	(75)	Vietnam	540	0.02	99.88	0.00
77	(71)	Romania	500	0.02	99.89	0.00
78	(82)	Cameroon	450	0.01	99.91	0.00
79	(78)	Mozambique	430	0.01	99.92	0.00
80	(83)	Eritrea	400	0.01	99.93	0.00
81	(79)	Kenya	395	0.01	99.94	0.00
82	(89)	Central African Republic	359	0.01	99.95	0.00
83	(77)	Slovakia	346	0.01	99.96	0.00
84	(80)	Myanmar	250	0.01	99.97	0.00
85	(85)	Morocco	221	0.01	99.98	0.00
86	(87)	Korea, South	181	0.01	99.98	0.00
87	(88)	Congo, Rep.	150	0.00	99.99	0.00
88	(90)	Gabon	107	0.00	99.99	0.00
89	(81)	Sierra Leone	75	0.00	99.99	0.00
90	(86)	Algeria	70	0.00	100.00	0.00
91	(**)	United Kingdom	50	0.00	100.00	0.00
92	(91)	Cyprus	33	0.00	100.00	0.00
93	(93)	Germany	15	0.00	100.00	0.00
94	(**)	Eswatini	6	0.00	100.00	0.00
95	(95)	Taiwan	6	0.00	100.00	0.00
96	(94)	Benin	5	0.00	100.00	0.00
Total			3 292 271	100.00		HHI 515

## Palladium

Rank 2019	Rank 2018	Country	Production 2019 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	92 900	41.88	41.88	1 754.02
2	( 2)	South Africa	80 684	36.37	78.25	1 323.05
3	( 3)	Canada	19 750	8.90	87.16	79.28
4	( 4)	United States	14 323	6.46	93.62	41.69
5	( 5)	Zimbabwe	11 640	5.25	98.86	27.54
6	( 6)	China	1 300	0.59	99.45	0.34
7	( 7)	Finland	699	0.32	99.76	0.10
8	( 8)	Australia	390	0.18	99.94	0.03
9	( 9)	Serbia	100	0.05	99.99	0.00
10	(**)	Uzbekistan	28	0.01	100.00	0.00
11	(10)	Poland	5	0.00	100.00	0.00
Total			221 819	100.00		HHI 3 226

## Platinum

Rank 2019	Rank 2018	Country	Production 2019 kg	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	132 989	72.20	72.20	5 212.74
2	( 2)	Russia	22 420	12.17	84.37	148.15
3	( 3)	Zimbabwe	13 857	7.52	91.89	56.59
4	( 4)	Canada	7 050	3.83	95.72	14.65
5	( 5)	United States	4 152	2.25	97.98	5.08
6	( 6)	China	2 500	1.36	99.33	1.84
7	( 7)	Finland	953	0.52	99.85	0.27
8	( 8)	Colombia	163	0.09	99.94	0.01
9	( 9)	Australia	95	0.05	99.99	0.00
10	(11)	Serbia	10	0.01	100.00	0.00
11	(10)	Poland	8	0.00	100.00	0.00
		Total	184 197	100.00		HHI 5 439

## Rhodium

Rank 2019	Rank 2018	Country	Production 2019 kg	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	19 545	82.52	82.52	6 810.22
2	( 2)	Russia	2 115	8.93	91.45	79.75
3	( 3)	Zimbabwe	1 224	5.17	96.62	26.71
4	( 4)	Canada	700	2.96	99.58	8.74
5	( 5)	United States	100	0.42	100.00	0.18
		Total	23 684	100.00		HHI 6 926

## Silver

Rank 2019	Rank 2018	Country	Production 2019 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Mexico	7 485 602	26.91	26.91	724.15
2	( 2)	Peru	3 860 306	13.88	40.79	192.58
3	( 3)	China	3 443 200	12.38	53.17	153.22
4	( 4)	Russia	1 361 000	4.89	58.06	23.94
5	( 7)	Australia	1 325 089	4.76	62.82	22.69
6	( 5)	Chile	1 309 321	4.71	67.53	22.15
7	( 6)	Poland	1 249 000	4.49	72.02	20.16
8	( 8)	Bolivia	1 153 109	4.15	76.16	17.18
9	( 9)	Argentina	1 039 813	3.74	79.90	13.97
10	(10)	Kazakhstan	1 022 068	3.67	83.58	13.50
11	(11)	United States	977 000	3.51	87.09	12.34
12	(15)	Indonesia	487 400	1.75	88.84	3.07
13	(12)	India	441 818	1.59	90.43	2.52
14	(13)	Sweden	419 926	1.51	91.94	2.28
15	(14)	Canada	419 218	1.51	93.45	2.27
16	(16)	Turkey	242 000	0.87	94.32	0.76

17	(19)	Morocco	185 690	0.67	94.98	0.45
18	(18)	Uzbekistan	172 000	0.62	95.60	0.38
19	(20)	Papua New Guinea	146 186	0.53	96.13	0.28
20	(17)	Dominican Republic	108 696	0.39	96.52	0.15
21	(21)	Portugal	95 270	0.34	96.86	0.12
22	(22)	Spain	90 783	0.33	97.19	0.11
23	(24)	Mongolia	63 390	0.23	97.41	0.05
24	(28)	South Africa	55 903	0.20	97.62	0.04
25	(23)	Korea, North	50 000	0.18	97.80	0.03
26	(26)	Brazil	50 000	0.18	97.98	0.03
27	(25)	Iran	50 000	0.18	98.15	0.03
28	(31)	Honduras	45 174	0.16	98.32	0.03
29	(32)	Eritrea	44 836	0.16	98.48	0.03
30	(39)	Finland	40 461	0.15	98.62	0.02
31	(27)	Bulgaria	40 055	0.14	98.77	0.02
32	(29)	Greece	37 790	0.14	98.90	0.02
33	(**)	Panama	35 217	0.13	99.03	0.02
34	(30)	Laos	34 443	0.12	99.15	0.02
35	(33)	Philippines	31 267	0.11	99.27	0.01
36	(34)	Kyrgyzstan	19 010	0.07	99.33	0.00
37	(35)	Romania	18 000	0.06	99.40	0.00
38	(37)	Armenia	17 922	0.06	99.46	0.00
39	(36)	North Macedonia	17 880	0.06	99.53	0.00
40	(41)	Nicaragua	17 362	0.06	99.59	0.00
41	(43)	Serbia	14 502	0.05	99.64	0.00
42	(40)	Tanzania	12 550	0.05	99.69	0.00
43	(38)	Colombia	11 666	0.04	99.73	0.00
44	(42)	Tajikistan	11 100	0.04	99.77	0.00
45	(44)	Azerbaijan	8 160	0.03	99.80	0.00
46	(51)	Namibia	7 765	0.03	99.83	0.00
47	(48)	Burkina Faso	5 670	0.02	99.85	0.00
48	(46)	Saudi Arabia	5 588	0.02	99.87	0.00
49	(45)	Korea, South	5 243	0.02	99.89	0.00
50	(47)	New Zealand	4 060	0.01	99.90	0.00
51	(49)	Germany	4 000	0.01	99.92	0.00
52	(50)	Ghana	4 000	0.01	99.93	0.00
53	(52)	Japan	3 467	0.01	99.94	0.00
54	(53)	Congo, D.R.	3 400	0.01	99.95	0.00
55	(54)	Mali	3 000	0.01	99.97	0.00
56	(64)	Ecuador	2 892	0.01	99.98	0.00
57	(56)	Ireland	1 578	0.01	99.98	0.00
58	(58)	Sudan	1 000	0.00	99.98	0.00
59	(59)	Senegal	898	0.00	99.99	0.00
60	(57)	Ethiopia	800	0.00	99.99	0.00
61	(61)	Fiji	692	0.00	99.99	0.00
62	(55)	Malaysia	686	0.00	100.00	0.00
63	(60)	Cote d'Ivoire	500	0.00	100.00	0.00
64	(62)	Slovakia	295	0.00	100.00	0.00
65	(**)	United Kingdom	130	0.00	100.00	0.00
66	(63)	Niger	100	0.00	100.00	0.00
67	(65)	Cyprus	97	0.00	100.00	0.00
68	(66)	Algeria	30	0.00	100.00	0.00
		Total	27 817 074	100.00		HHI 1 229



## 6.5.4 Industrial Minerals

### Asbestos

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	789 600	67.18	67.18	4 513.53
2	( 2)	Kazakhstan	210 700	17.93	85.11	321.39
3	( 3)	China	125 000	10.64	95.75	113.12
4	( 4)	Brazil	50 000	4.25	100.00	18.10
		Total	1 175 300	100.00		HHI 4 966

### Baryte

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 900 000	32.90	32.90	1 082.41
2	( 2)	India	2 000 000	22.69	55.59	514.82
3	( 3)	Morocco	1 119 811	12.70	68.29	161.39
4	( 4)	Kazakhstan	530 600	6.02	74.31	36.24
5	( 7)	Mexico	415 180	4.71	79.02	22.19
6	( 8)	United States	414 000	4.70	83.72	22.06
7	( 6)	Turkey	413 811	4.69	88.41	22.04
8	( 5)	Iran	247 207	2.80	91.22	7.87
9	( 9)	Russia	163 000	1.85	93.07	3.42
10	(10)	Pakistan	116 666	1.32	94.39	1.75
11	(11)	Bulgaria	72 000	0.82	95.21	0.67
12	(15)	Vietnam	70 000	0.79	96.00	0.63
13	(13)	United Kingdom	55 000	0.62	96.63	0.39
14	(19)	Laos	48 600	0.55	97.18	0.30
15	(16)	Canada	40 000	0.45	97.63	0.21
16	(14)	Bolivia	39 458	0.45	98.08	0.20
17	(12)	Thailand	33 644	0.38	98.46	0.15
18	(17)	Algeria	31 138	0.35	98.81	0.12
19	(18)	Germany	30 474	0.35	99.16	0.12
20	(20)	Brazil	17 000	0.19	99.35	0.04
21	(21)	Peru	16 373	0.19	99.54	0.03
22	(24)	Myanmar	12 439	0.14	99.68	0.02
23	(23)	Tunisia	10 000	0.11	99.79	0.01
24	(28)	Egypt	4 000	0.05	99.84	0.00
25	(27)	Korea, North	4 000	0.05	99.88	0.00
26	(25)	Argentina	3 898	0.04	99.93	0.00
27	(30)	Colombia	2 270	0.03	99.95	0.00
28	(29)	Ecuador	2 000	0.02	99.98	0.00
29	(26)	Australia	1 982	0.02	100.00	0.00
30	(32)	Guatemala	50	0.00	100.00	0.00
		Total	8 814 601	100.00		HHI 1 877

## Bentonite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	5 600 000	25.58	25.58	654.47
2	( 2)	United States	4 490 000	20.51	46.09	420.73
3	( 3)	India	3 600 000	16.45	62.54	270.47
4	( 5)	Turkey	1 533 547	7.01	69.55	49.08
5	( 4)	Greece	1 393 958	6.37	75.91	40.55
6	( 8)	Iran	761 079	3.48	79.39	12.09
7	( 6)	Russia	720 000	3.29	82.68	10.82
8	( 7)	Brazil	600 000	2.74	85.42	7.51
9	( 9)	Germany	366 000	1.67	87.09	2.80
10	(10)	Czech Republic	357 000	1.63	88.72	2.66
11	(11)	Slovakia	260 120	1.19	89.91	1.41
12	(13)	Japan	250 000	1.14	91.05	1.30
13	(14)	Azerbaijan	222 500	1.02	92.07	1.03
14	(19)	Morocco	188 081	0.86	92.93	0.74
15	(16)	Spain	160 477	0.73	93.66	0.54
16	(17)	Ukraine	124 700	0.57	94.23	0.32
17	(20)	Kazakhstan	120 000	0.55	94.78	0.30
18	(15)	Argentina	120 000	0.55	95.33	0.30
19	(18)	South Africa	105 084	0.48	95.81	0.23
20	(23)	Bosnia-Herzegovina	94 601	0.43	96.24	0.19
21	(22)	Cyprus	83 113	0.38	96.62	0.14
22	(29)	France	82 720	0.38	97.00	0.14
23	(21)	Italy	82 720	0.38	97.38	0.14
24	(42)	Mozambique	77 734	0.36	97.73	0.13
25	(25)	Australia	70 000	0.32	98.05	0.10
26	(24)	Pakistan	49 380	0.23	98.28	0.05
27	(26)	Denmark	48 197	0.22	98.50	0.05
28	(41)	Peru	46 887	0.21	98.71	0.05
29	(27)	Bulgaria	45 000	0.21	98.92	0.04
30	(31)	Korea, South	43 886	0.20	99.12	0.04
31	(30)	Romania	41 964	0.19	99.31	0.04
32	(32)	Hungary	41 500	0.19	99.50	0.04
33	(28)	Algeria	36 700	0.17	99.67	0.03
34	(12)	Mexico	24 321	0.11	99.78	0.01
35	(34)	Philippines	13 050	0.06	99.84	0.00
36	(33)	Guatemala	12 700	0.06	99.90	0.00
37	(35)	Turkmenistan	10 000	0.05	99.94	0.00
38	(36)	Uruguay	6 730	0.03	99.97	0.00
39	(38)	Egypt	3 500	0.02	99.99	0.00
40	(40)	North Macedonia	682	0.00	99.99	0.00
41	(43)	Cuba	504	0.00	99.99	0.00
42	(37)	New Zealand	500	0.00	100.00	0.00
43	(44)	Poland	500	0.00	100.00	0.00
44	(46)	Chile	395	0.00	100.00	0.00
45	(47)	Slovenia	99	0.00	100.00	0.00
		Total	21 889 929	100.00		HHI 1 479

## Boron Minerals

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	2 040 000	48.98	48.98	2 399.28
2	( 2)	United States	1 030 000	24.73	73.71	611.64
3	( 3)	Chile	352 255	8.46	82.17	71.54
4	( 7)	China	250 000	6.00	88.17	36.03
5	( 4)	Bolivia	214 269	5.14	93.32	26.47
6	( 5)	Peru	111 108	2.67	95.99	7.12
7	( 6)	Russia	80 400	1.93	97.92	3.73
8	( 8)	Argentina	54 700	1.31	99.23	1.73
9	( 9)	Kazakhstan	30 000	0.72	99.95	0.52
10	(10)	Iran	2 026	0.05	100.00	0.00
		Total	4 164 758	100.00		HHI 3 158

## Diamonds (Gem)

Rank 2019	Rank 2018	Country	Production 2019 ct	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	25 804 591	33.13	33.13	1 097.61
2	( 2)	Canada	18 402 705	23.63	56.76	558.24
3	( 3)	Botswana	16 580 900	21.29	78.05	453.18
4	( 4)	Angola	8 234 770	10.57	88.62	111.78
5	( 5)	South Africa	2 872 280	3.69	92.31	13.60
6	( 7)	Congo, D.R.	2 020 450	2.59	94.90	6.73
7	( 6)	Namibia	1 722 830	2.21	97.11	4.89
8	( 8)	Zimbabwe	635 760	0.82	97.93	0.67
9	( 9)	Sierra Leone	433 054	0.56	98.48	0.31
10	(10)	Tanzania	354 240	0.45	98.94	0.21
11	(11)	Australia	243 090	0.31	99.25	0.10
12	(12)	Lesotho	222 700	0.29	99.54	0.08
13	(13)	Guinea	171 880	0.22	99.76	0.05
14	(14)	Brazil	53 240	0.07	99.83	0.00
15	(15)	Guyana	41 240	0.05	99.88	0.00
16	(17)	Liberia	35 190	0.05	99.92	0.00
17	(16)	Ghana	27 030	0.03	99.96	0.00
18	(19)	Central African Republic	18 880	0.02	99.98	0.00
19	(18)	India	9 510	0.01	99.99	0.00
20	(20)	Cote d'Ivoire	3 989	0.01	100.00	0.00
21	(22)	China	51	0.00	100.00	0.00
		Total	77 888 380	100.00		HHI 2 247

## Diamonds (Ind)

Rank 2019	Rank 2018	Country	Production 2019 ct	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	19 466 621	33.38	33.38	1 114.40
2	( 2)	Australia	11 911 450	20.43	53.81	417.24
3	( 3)	Congo, D.R.	11 449 240	19.63	73.44	385.49
4	( 4)	Botswana	7 106 100	12.19	85.63	148.50
5	( 5)	South Africa	4 308 420	7.39	93.02	54.59
6	( 6)	Zimbabwe	1 483 430	2.54	95.56	6.47
7	( 8)	Angola	914 975	1.57	97.13	2.46
8	( 7)	Lesotho	890 820	1.53	98.66	2.33
9	( 9)	Sierra Leone	391 403	0.67	99.33	0.45
10	(10)	Brazil	108 085	0.19	99.51	0.03
11	(11)	Namibia	90 675	0.16	99.67	0.02
12	(13)	Tanzania	62 510	0.11	99.78	0.01
13	(12)	Guinea	57 300	0.10	99.88	0.01
14	(15)	Liberia	23 460	0.04	99.92	0.00
15	(16)	India	19 310	0.03	99.95	0.00
16	(17)	Guyana	13 750	0.02	99.97	0.00
17	(18)	Ghana	6 760	0.01	99.98	0.00
18	(19)	Central African Republic	4 720	0.01	99.99	0.00
19	(14)	Congo, Rep.	2 963	0.01	100.00	0.00
20	(20)	Cameroon	1 737	0.00	100.00	0.00
21	(**)	Togo	16	0.00	100.00	0.00
		Total	58 313 745	100.00		HHI 2 132

## Diatomite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	768 000	35.40	35.40	1 253.33
2	( 2)	China	400 000	18.44	53.84	339.99
3	( 3)	Turkey	220 757	10.18	64.02	103.55
4	( 4)	Mexico	129 274	5.96	69.98	35.51
5	( 5)	Denmark	108 800	5.02	74.99	25.15
6	( 8)	Argentina	94 090	4.34	79.33	18.81
7	( 6)	Peru	91 103	4.20	83.53	17.64
8	( 7)	France	90 000	4.15	87.68	17.21
9	(10)	Mozambique	72 439	3.34	91.02	11.15
10	( 9)	Spain	60 000	2.77	93.78	7.65
11	(11)	Czech Republic	43 000	1.98	95.76	3.93
12	(12)	Korea, South	40 910	1.89	97.65	3.56
13	(13)	Chile	21 328	0.98	98.63	0.97
14	(14)	Brazil	16 000	0.74	99.37	0.54
15	(15)	Ethiopia	5 000	0.23	99.60	0.05
16	(16)	Costa Rica	4 000	0.18	99.79	0.03
17	(17)	Algeria	2 437	0.11	99.90	0.01
18	(18)	Kenya	921	0.04	99.94	0.00
19	(19)	Poland	680	0.03	99.97	0.00
20	(**)	Iran	600	0.03	100.00	0.00
21	(20)	Australia	8	0.00	100.00	0.00
		Total	2 169 347	100.00		HHI 1 839

## Feldspar

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	9 447 810	31.71	31.71	1 005.58
2	( 2)	India	4 300 000	14.43	46.14	208.30
3	( 3)	China	2 450 000	8.22	54.37	67.62
4	( 6)	Iran	2 415 368	8.11	62.47	65.72
5	( 4)	Italy	2 200 000	7.38	69.86	54.53
6	( 5)	Indonesia	1 370 000	4.60	74.46	21.14
7	( 7)	Thailand	1 251 143	4.20	78.66	17.63
8	(15)	Brazil	632 349	2.12	80.78	4.50
9	(10)	Spain	620 000	2.08	82.86	4.33
10	( 8)	Mexico	516 196	1.73	84.59	3.00
11	(12)	France	500 000	1.68	86.27	2.82
12	(13)	Czech Republic	460 000	1.54	87.81	2.38
13	(11)	United States	450 000	1.51	89.32	2.28
14	( 9)	Korea, South	396 898	1.33	90.66	1.77
15	(21)	Pakistan	346 236	1.16	91.82	1.35
16	(16)	Russia	281 300	0.94	92.76	0.89
17	(14)	Malaysia	241 189	0.81	93.57	0.66
18	(17)	Germany	235 289	0.79	94.36	0.62
19	(18)	Egypt	230 000	0.77	95.13	0.60
20	(19)	Saudi Arabia	216 000	0.72	95.86	0.53
21	(20)	Algeria	170 000	0.57	96.43	0.33
22	(22)	Colombia	161 518	0.54	96.97	0.29
23	(23)	Portugal	106 754	0.36	97.33	0.13
24	(25)	Norway	80 000	0.27	97.60	0.07
25	(26)	South Africa	76 255	0.26	97.85	0.07
26	(27)	Morocco	75 000	0.25	98.11	0.06
27	(29)	Sri Lanka	65 400	0.22	98.33	0.05
28	(30)	Ukraine	60 000	0.20	98.53	0.04
29	(31)	Philippines	47 000	0.16	98.68	0.02
30	(32)	Ecuador	45 000	0.15	98.84	0.02
31	(28)	Poland	42 160	0.14	98.98	0.02
32	(33)	Nigeria	40 000	0.13	99.11	0.02
33	(35)	Austria	35 000	0.12	99.23	0.01
34	(39)	Venezuela	30 000	0.10	99.33	0.01
35	(37)	North Macedonia	29 519	0.10	99.43	0.01
36	(36)	Peru	29 134	0.10	99.53	0.01
37	(38)	Guatemala	28 771	0.10	99.62	0.01
38	(40)	Sweden	25 000	0.08	99.71	0.01
39	(41)	Romania	20 000	0.07	99.77	0.00
40	(43)	Slovakia	19 100	0.06	99.84	0.00
41	(42)	Finland	17 997	0.06	99.90	0.00
42	(34)	Sudan	17 000	0.06	99.96	0.00
43	(24)	Argentina	10 000	0.03	99.99	0.00
44	(44)	Cuba	2 100	0.01	100.00	0.00
45	(46)	Dominican Republic	1 000	0.00	100.00	0.00
46	(45)	Chile	55	0.00	100.00	0.00
47	(47)	Australia	50	0.00	100.00	0.00
		Total	29 793 591	100.00		HHI 1 467

## Fluorspar

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	4 000 000	52.19	52.19	2 723.99
2	( 2)	Mexico	1 931 532	25.20	77.39	635.17
3	( 3)	Mongolia	699 400	9.13	86.52	83.28
4	( 4)	Vietnam	238 003	3.11	89.63	9.64
5	( 5)	South Africa	210 000	2.74	92.37	7.51
6	( 6)	Spain	170 000	2.22	94.58	4.92
7	(10)	Canada	80 000	1.04	95.63	1.09
8	( 9)	Germany	79 959	1.04	96.67	1.09
9	( 7)	Morocco	73 244	0.96	97.63	0.91
10	( 8)	Iran	54 824	0.72	98.34	0.51
11	(14)	Afghanistan	50 000	0.65	98.99	0.43
12	(11)	Thailand	17 747	0.23	99.23	0.05
13	(12)	Brazil	15 000	0.20	99.42	0.04
14	(17)	Turkey	14 400	0.19	99.61	0.04
15	(13)	United Kingdom	11 000	0.14	99.75	0.02
16	(16)	Korea, North	6 900	0.09	99.84	0.01
17	(19)	Pakistan	4 208	0.05	99.90	0.00
18	(18)	Russia	4 000	0.05	99.95	0.00
19	(15)	Argentina	1 500	0.02	99.97	0.00
20	(20)	India	1 315	0.02	99.99	0.00
21	(21)	Egypt	1 000	0.01	100.00	0.00
		Total	7 664 032	100.00		HHI 3 469

## Graphite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	700 000	61.78	61.78	3 816.64
2	( 2)	Mozambique	153 000	13.50	75.28	182.33
3	( 3)	Brazil	81 770	7.22	82.50	52.08
4	( 4)	Madagascar	53 400	4.71	87.21	22.21
5	( 5)	Korea, North	45 000	3.97	91.18	15.77
6	( 6)	India	31 991	2.82	94.01	7.97
7	( 9)	Russia	17 500	1.54	95.55	2.39
8	(10)	Canada	11 000	0.97	96.52	0.94
9	( 8)	Ukraine	10 000	0.88	97.40	0.78
10	( 7)	Turkey	9 990	0.88	98.29	0.78
11	(11)	Norway	9 780	0.86	99.15	0.75
12	(15)	Vietnam	3 500	0.31	99.46	0.10
13	(13)	Sri Lanka	3 100	0.27	99.73	0.07
14	(12)	Mexico	2 342	0.21	99.94	0.04
15	(16)	Korea, South	302	0.03	99.96	0.00
16	(17)	Germany	207	0.02	99.98	0.00
17	(18)	Austria	100	0.01	99.99	0.00
18	(**)	Colombia	90	0.01	100.00	0.00
		Total	1 133 072	100.00		HHI 4 103

## Gypsum and Anhydrite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	25 000 000	15.89	15.89	252.57
2	( 2)	United States	21 200 000	13.48	29.37	181.62
3	( 5)	Iran	14 750 093	9.38	38.75	87.92
4	( 8)	Oman	10 663 185	6.78	45.52	45.95
5	( 7)	Spain	10 643 585	6.77	52.29	45.78
6	( 4)	Thailand	9 787 287	6.22	58.51	38.71
7	( 3)	Mexico	7 759 139	4.93	63.44	24.33
8	( 6)	Turkey	7 489 129	4.76	68.21	22.67
9	(11)	Germany	4 850 000	3.08	71.29	9.51
10	(12)	Australia	4 215 350	2.68	73.97	7.18
11	( 9)	Russia	4 179 300	2.66	76.63	7.06
12	(13)	Saudi Arabia	3 472 000	2.21	78.83	4.87
13	(10)	France	3 259 935	2.07	80.90	4.29
14	(14)	Canada	2 831 010	1.80	82.70	3.24
15	(15)	Pakistan	2 265 131	1.44	84.14	2.07
16	(16)	Algeria	2 200 000	1.40	85.54	1.96
17	(17)	Brazil	2 115 000	1.34	86.89	1.81
18	(18)	India	2 000 000	1.27	88.16	1.62
19	(20)	Ukraine	1 409 400	0.90	89.05	0.80
20	(19)	United Kingdom	1 400 000	0.89	89.94	0.79
21	(21)	Poland	1 065 000	0.68	90.62	0.46
22	(22)	Iraq	1 000 000	0.64	91.26	0.40
23	(24)	Chile	977 397	0.62	91.88	0.39
24	(23)	Tunisia	946 892	0.60	92.48	0.36
25	(26)	Austria	900 217	0.57	93.05	0.33
26	(29)	Romania	878 546	0.56	93.61	0.31
27	(28)	Egypt	800 000	0.51	94.12	0.26
28	(25)	Argentina	761 013	0.48	94.60	0.23
29	(30)	Cyprus	623 545	0.40	95.00	0.16
30	(31)	Laos	606 387	0.39	95.39	0.15
31	(27)	Greece	589 012	0.37	95.76	0.14
32	(32)	Bhutan	490 596	0.31	96.07	0.10
33	(36)	Switzerland	330 000	0.21	96.28	0.04
34	(38)	Latvia	318 450	0.20	96.48	0.04
35	(47)	Dominican Republic	315 430	0.20	96.68	0.04
36	(39)	Myanmar	299 316	0.19	96.88	0.04
37	(49)	Italy	298 242	0.19	97.06	0.04
38	(34)	Colombia	293 143	0.19	97.25	0.03
39	(37)	South Africa	277 102	0.18	97.43	0.03
40	(35)	Moldova	276 400	0.18	97.60	0.03
41	(43)	North Macedonia	267 181	0.17	97.77	0.03
42	(41)	Tanzania	256 529	0.16	97.94	0.03
43	(40)	Ethiopia	255 000	0.16	98.10	0.03
44	(33)	Peru	254 382	0.16	98.26	0.03
45	(42)	Portugal	209 076	0.13	98.39	0.02
46	(46)	Ireland	200 000	0.13	98.52	0.02
47	(51)	Libya	200 000	0.13	98.65	0.02
48	(48)	Jordan	200 000	0.13	98.77	0.02
49	(45)	Croatia	199 255	0.13	98.90	0.02
50	(44)	Sudan	193 000	0.12	99.02	0.02
51	(50)	Kyrgyzstan	150 000	0.10	99.12	0.01
52	(52)	Guatemala	140 901	0.09	99.21	0.01
53	(54)	Bosnia-Herzegovina	130 788	0.08	99.29	0.01
54	(53)	Mauritania	130 000	0.08	99.37	0.01
55	(58)	Norway	102 100	0.06	99.44	0.00
56	(56)	Albania	98 000	0.06	99.50	0.00

57	(60)	Israel	90 000	0.06	99.56	0.00
58	(59)	Bulgaria	88 000	0.06	99.61	0.00
59	(55)	Kazakhstan	78 200	0.05	99.66	0.00
60	(62)	Syria	70 000	0.04	99.71	0.00
61	(57)	Cuba	66 300	0.04	99.75	0.00
62	(63)	Slovakia	58 250	0.04	99.79	0.00
63	(65)	Jamaica	55 000	0.03	99.82	0.00
64	(66)	Nigeria	40 000	0.03	99.85	0.00
65	(61)	Nicaragua	39 925	0.03	99.87	0.00
66	(68)	Honduras	34 964	0.02	99.90	0.00
67	(69)	Angola	32 000	0.02	99.92	0.00
68	(67)	Afghanistan	24 371	0.02	99.93	0.00
69	(70)	Armenia	22 907	0.01	99.95	0.00
70	(64)	Yemen	20 000	0.01	99.96	0.00
71	(73)	Azerbaijan	14 700	0.01	99.97	0.00
72	(72)	Tajikistan	14 000	0.01	99.98	0.00
73	(71)	Eritrea	12 000	0.01	99.98	0.00
74	(74)	Czech Republic	10 000	0.01	99.99	0.00
75	(75)	Kenya	5 700	0.00	99.99	0.00
76	(76)	Paraguay	4 500	0.00	100.00	0.00
77	(77)	Bolivia	3 905	0.00	100.00	0.00
		Total	157 307 166	100.00		HHI 749

## Kaolin

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	6 400 000	16.56	16.56	274.11
2	( 2)	United States	5 060 000	13.09	29.65	171.34
3	( 3)	Germany	4 760 000	12.31	41.96	151.63
4	( 4)	India	4 400 000	11.38	53.34	129.56
5	( 5)	Czech Republic	3 446 000	8.91	62.26	79.47
6	( 6)	Ukraine	1 843 561	4.77	67.03	22.74
7	(10)	Iran	1 813 395	4.69	71.72	22.01
8	( 9)	Russia	1 530 800	3.96	75.68	15.68
9	( 7)	Brazil	1 471 610	3.81	79.48	14.49
10	( 8)	Turkey	1 283 776	3.32	82.80	11.03
11	(11)	United Kingdom	996 000	2.58	85.38	6.64
12	(13)	Indonesia	750 000	1.94	87.32	3.76
13	(15)	Spain	463 617	1.20	88.52	1.44
14	(14)	Malaysia	417 222	1.08	89.60	1.16
15	(21)	France	392 389	1.02	90.62	1.03
16	(23)	Uzbekistan	377 184	0.98	91.59	0.95
17	(18)	Bulgaria	330 000	0.85	92.44	0.73
18	(17)	Korea, South	317 626	0.82	93.27	0.68
19	(19)	Poland	317 190	0.82	94.09	0.67
20	(16)	Portugal	311 677	0.81	94.89	0.65
21	(22)	Italy	250 000	0.65	95.54	0.42
22	(12)	Mexico	246 645	0.64	96.18	0.41
23	(24)	Egypt	230 000	0.59	96.77	0.35
24	(25)	Saudi Arabia	227 000	0.59	97.36	0.34
25	(28)	Serbia	120 000	0.31	97.67	0.10
26	(20)	Bosnia-Herzegovina	118 005	0.31	97.98	0.09
27	(26)	Australia	114 050	0.30	98.27	0.09
28	(31)	Vietnam	100 000	0.26	98.53	0.07
29	(32)	Algeria	100 000	0.26	98.79	0.07



30	(29)	Thailand	92 414	0.24	99.03	0.06
31	(34)	New Zealand	50 569	0.13	99.16	0.02
32	(33)	Chile	34 801	0.09	99.25	0.01
33	(37)	Sri Lanka	34 100	0.09	99.34	0.01
34	(47)	Sudan	29 000	0.08	99.41	0.01
35	(36)	South Africa	27 827	0.07	99.48	0.01
36	(35)	Slovakia	24 970	0.06	99.55	0.00
37	(38)	Pakistan	15 539	0.04	99.59	0.00
38	(27)	Tanzania	15 343	0.04	99.63	0.00
39	(42)	Kyrgyzstan	15 000	0.04	99.67	0.00
40	(43)	Austria	13 500	0.03	99.70	0.00
41	(30)	Oman	12 500	0.03	99.73	0.00
42	(44)	Japan	12 000	0.03	99.76	0.00
43	(45)	Nigeria	12 000	0.03	99.80	0.00
44	(40)	Argentina	11 853	0.03	99.83	0.00
45	(46)	Jordan	11 000	0.03	99.86	0.00
46	(39)	Uganda	10 448	0.03	99.88	0.00
47	(48)	Ethiopia	10 000	0.03	99.91	0.00
48	(49)	Philippines	10 000	0.03	99.93	0.00
49	(41)	Peru	9 208	0.02	99.96	0.00
50	(50)	Romania	6 089	0.02	99.97	0.00
51	(51)	Paraguay	6 000	0.02	99.99	0.00
52	(52)	Cuba	2 100	0.01	99.99	0.00
53	(53)	Kenya	1 000	0.00	100.00	0.00
54	(54)	Guatemala	700	0.00	100.00	0.00
55	(56)	Taiwan	500	0.00	100.00	0.00
		Total	38 656 208	100.00		HHI 912

## Magnesite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	19 000 000	69.52	69.52	4 832.39
2	( 3)	Brazil	1 700 000	6.22	75.74	38.69
3	( 2)	Turkey	1 496 081	5.47	81.21	29.96
4	( 5)	Slovakia	1 015 800	3.72	84.93	13.81
5	( 4)	Russia	1 013 800	3.71	88.63	13.76
6	( 7)	Spain	750 000	2.74	91.38	7.53
7	( 6)	Austria	691 909	2.53	93.91	6.41
8	( 9)	Australia	413 182	1.51	95.42	2.29
9	( 8)	Greece	358 841	1.31	96.73	1.72
10	(10)	Saudi Arabia	200 000	0.73	97.47	0.54
11	(11)	Canada	150 000	0.55	98.02	0.30
12	(13)	Iran	147 760	0.54	98.56	0.29
13	(16)	Korea, North	100 000	0.37	98.92	0.13
14	(12)	India	97 684	0.36	99.28	0.13
15	(14)	Poland	91 490	0.33	99.61	0.11
16	(18)	Pakistan	41 477	0.15	99.77	0.02
17	(17)	Finland	37 002	0.14	99.90	0.02
18	(19)	Philippines	10 000	0.04	99.94	0.00
19	(20)	South Africa	8 500	0.03	99.97	0.00
20	(22)	Guatemala	4 500	0.02	99.99	0.00

21	(23)	Colombia	1 847	0.01	99.99	0.00
22	(21)	Bosnia-Herzegovina	1 400	0.01	100.00	0.00
23	(15)	Mexico	800	0.00	100.00	0.00
		Total	27 332 073	100.00		HHI 4 948

## Perlite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	1 174 486	43.48	43.48	1 890.37
2	( 2)	Greece	718 077	26.58	70.06	706.63
3	( 3)	United States	526 000	19.47	89.53	379.16
4	( 5)	Armenia	80 676	2.99	92.52	8.92
5	( 6)	Russia	45 000	1.67	94.19	2.78
6	( 8)	Hungary	37 877	1.40	95.59	1.97
7	( 7)	Slovakia	32 450	1.20	96.79	1.44
8	( 4)	Iran	31 828	1.18	97.97	1.39
9	( 9)	Mexico	24 497	0.91	98.87	0.82
10	(12)	Thailand	15 000	0.56	99.43	0.31
11	(11)	Philippines	6 608	0.24	99.67	0.06
12	(13)	Chile	4 700	0.17	99.85	0.03
13	(10)	Argentina	1 850	0.07	99.92	0.00
14	(14)	Australia	1 264	0.05	99.96	0.00
15	(15)	South Africa	1 000	0.04	100.00	0.00
		Total	2 701 313	100.00		HHI 2 994

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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	27 997 200	39.37	39.37	1 550.32
2	( 2)	Morocco	11 267 500	15.85	55.22	251.10
3	( 3)	United States	6 547 000	9.21	64.43	84.78
4	( 4)	Russia	5 382 000	7.57	72.00	57.29
5	( 5)	Peru	4 214 770	5.93	77.92	35.14
6	( 6)	Jordan	2 951 470	4.15	82.08	17.23
7	( 7)	Brazil	1 828 500	2.57	84.65	6.61
8	( 8)	Saudi Arabia	1 714 800	2.41	87.06	5.82
9	( 9)	Vietnam	1 395 480	1.96	89.02	3.85
10	(12)	Tunisia	1 124 700	1.58	90.60	2.50
11	(11)	Egypt	1 000 000	1.41	92.01	1.98
12	(10)	Israel	870 200	1.22	93.23	1.50
13	(13)	Senegal	855 850	1.20	94.44	1.45
14	(14)	South Africa	639 000	0.90	95.33	0.81
15	(15)	Algeria	455 100	0.64	95.97	0.41
16	(16)	Kazakhstan	388 540	0.55	96.52	0.30
17	(19)	Finland	363 020	0.51	97.03	0.26
18	(20)	India	322 000	0.45	97.48	0.21
19	(17)	Iraq	300 000	0.42	97.91	0.18
20	(18)	Togo	290 720	0.41	98.32	0.17

21	(21)	Mexico	249 520	0.35	98.67	0.12
22	(22)	Australia	165 750	0.23	98.90	0.05
23	(23)	Uzbekistan	150 000	0.21	99.11	0.04
24	(26)	Syria	134 000	0.19	99.30	0.04
25	(25)	Iran	102 230	0.14	99.44	0.02
26	(27)	Korea, North	95 000	0.13	99.58	0.02
27	(**)	Turkey	94 600	0.13	99.71	0.02
28	(24)	Christmas Island	89 010	0.13	99.83	0.02
29	(28)	Nauru	30 600	0.04	99.88	0.00
30	(29)	Venezuela	21 500	0.03	99.91	0.00
31	(33)	Colombia	19 570	0.03	99.94	0.00
32	(30)	Sri Lanka	16 600	0.02	99.96	0.00
33	(32)	Pakistan	14 950	0.02	99.98	0.00
34	(31)	Zimbabwe	8 100	0.01	99.99	0.00
35	(36)	Tanzania	5 050	0.01	100.00	0.00
36	(35)	Chile	950	0.00	100.00	0.00
37	(37)	Malawi	300	0.00	100.00	0.00
		Total	71 105 580	100.00		HHI 2 022

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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Canada	12 643 318	30.30	30.30	918.00
2	( 3)	Russia	7 368 000	17.66	47.96	311.76
3	( 2)	Belarus	7 348 293	17.61	65.56	310.09
4	( 4)	China	5 902 000	14.14	79.71	200.04
5	( 5)	Germany	2 615 284	6.27	85.98	39.28
6	( 6)	Israel	1 852 900	4.44	90.42	19.72
7	( 7)	Jordan	1 516 460	3.63	94.05	13.21
8	( 8)	Chile	683 540	1.64	95.69	2.68
9	( 9)	Spain	600 115	1.44	97.13	2.07
10	(10)	United States	510 000	1.22	98.35	1.49
11	(11)	Laos	286 900	0.69	99.04	0.47
12	(13)	Brazil	200 000	0.48	99.51	0.23
13	(12)	United Kingdom	84 000	0.20	99.72	0.04
14	(14)	Uzbekistan	70 150	0.17	99.88	0.03
15	(15)	Iran	37 200	0.09	99.97	0.01
16	(16)	Turkmenistan	11 100	0.03	100.00	0.00
		Total	41 729 260	100.00		HHI 1 819

### Salt

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	62 708 000	21.70	21.70	470.99
2	( 2)	United States	42 000 000	14.54	36.24	211.28
3	( 3)	India	27 300 000	9.45	45.69	89.27
4	( 4)	Germany	16 627 893	5.75	51.44	33.12
5	( 5)	Australia	12 173 391	4.21	55.65	17.75

6	( 6)	Canada	11 942 282	4.13	59.79	17.08
7	( 7)	Chile	10 476 823	3.63	63.41	13.15
8	( 8)	Mexico	8 845 239	3.06	66.47	9.37
9	(11)	Russia	8 175 000	2.83	69.30	8.00
10	( 9)	Brazil	7 600 000	2.63	71.93	6.92
11	(12)	Turkey	6 961 015	2.41	74.34	5.80
12	(10)	Netherlands	5 913 782	2.05	76.39	4.19
13	(14)	France	5 877 000	2.03	78.42	4.14
14	(15)	Spain	5 000 888	1.73	80.15	3.00
15	(13)	United Kingdom	4 700 000	1.63	81.78	2.65
16	(17)	Pakistan	4 108 929	1.42	83.20	2.02
17	(16)	Poland	4 063 000	1.41	84.61	1.98
18	(18)	Bulgaria	3 400 000	1.18	85.78	1.38
19	(20)	Indonesia	2 852 125	0.99	86.77	0.97
20	(21)	Saudi Arabia	2 778 000	0.96	87.73	0.92
21	(22)	Iran	2 639 192	0.91	88.65	0.83
22	(19)	Belarus	2 517 590	0.87	89.52	0.76
23	(24)	Ukraine	2 092 795	0.72	90.24	0.52
24	(25)	Tunisia	2 039 781	0.71	90.95	0.50
25	(23)	Romania	2 015 579	0.70	91.65	0.49
26	(30)	Thailand	1 580 390	0.55	92.19	0.30
27	(27)	Italy	1 538 072	0.53	92.73	0.28
28	(28)	Peru	1 266 347	0.44	93.16	0.19
29	(29)	Bangladesh	1 224 000	0.42	93.59	0.18
30	(31)	Austria	1 212 158	0.42	94.01	0.18
31	(38)	Kazakhstan	1 094 659	0.38	94.39	0.14
32	(33)	Bosnia-Herzegovina	1 069 210	0.37	94.76	0.14
33	(34)	Egypt	1 000 000	0.35	95.10	0.12
34	(26)	Argentina	984 700	0.34	95.44	0.12
35	(32)	Namibia	983 354	0.34	95.78	0.12
36	(37)	Japan	930 000	0.32	96.10	0.10
37	(36)	Vietnam	912 900	0.32	96.42	0.10
38	(40)	Morocco	854 397	0.30	96.72	0.09
39	(35)	Philippines	800 000	0.28	96.99	0.08
40	(39)	Bahamas	714 387	0.25	97.24	0.06
41	(42)	Venezuela	600 000	0.21	97.45	0.04
42	(41)	Denmark	600 000	0.21	97.66	0.04
43	(45)	South Africa	510 012	0.18	97.83	0.03
44	(44)	Korea, North	500 000	0.17	98.00	0.03
45	(43)	Switzerland	477 325	0.17	98.17	0.03
46	(48)	Botswana	383 779	0.13	98.30	0.02
47	(47)	Israel	370 000	0.13	98.43	0.02
48	(46)	Colombia	347 183	0.12	98.55	0.01
49	(50)	Eritrea	310 000	0.11	98.66	0.01
50	(49)	Ghana	300 000	0.10	98.76	0.01
51	(54)	Senegal	286 100	0.10	98.86	0.01
52	(52)	Iraq	270 000	0.09	98.95	0.01
53	(53)	Sudan	263 000	0.09	99.05	0.01
54	(51)	Korea, South	261 970	0.09	99.14	0.01
55	(56)	Myanmar	213 319	0.07	99.21	0.01
56	(55)	Cuba	210 400	0.07	99.28	0.01
57	(57)	Greece	167 170	0.06	99.34	0.00
58	(59)	Ethiopia	125 000	0.04	99.38	0.00
59	(74)	Afghanistan	114 245	0.04	99.42	0.00
60	(60)	Angola	109 000	0.04	99.46	0.00
61	(61)	Algeria	100 800	0.03	99.50	0.00
62	(62)	Turkmenistan	100 000	0.03	99.53	0.00
63	(64)	Madagascar	100 000	0.03	99.57	0.00
64	(63)	New Zealand	100 000	0.03	99.60	0.00
65	(77)	Tanzania	99 510	0.03	99.63	0.00
66	(86)	Croatia	93 870	0.03	99.67	0.00
67	(67)	Azerbaijan	77 116	0.03	99.69	0.00

68	(65)	Taiwan	76 255	0.03	99.72	0.00
69	(75)	Laos	58 579	0.02	99.74	0.00
70	(66)	Sri Lanka	57 291	0.02	99.76	0.00
71	(58)	Armenia	56 685	0.02	99.78	0.00
72	(70)	Kuwait	55 000	0.02	99.80	0.00
73	(71)	Nicaragua	55 000	0.02	99.82	0.00
74	(72)	Yemen	50 000	0.02	99.84	0.00
75	(87)	Syria	50 000	0.02	99.85	0.00
76	(68)	Honduras	49 900	0.02	99.87	0.00
77	(73)	Jordan	49 000	0.02	99.89	0.00
78	(76)	Tajikistan	35 324	0.01	99.90	0.00
79	(82)	Kenya	30 600	0.01	99.91	0.00
80	(80)	El Salvador	30 000	0.01	99.92	0.00
81	(81)	Libya	30 000	0.01	99.93	0.00
82	(78)	Albania	30 000	0.01	99.94	0.00
83	(83)	Mozambique	28 250	0.01	99.95	0.00
84	(85)	Panama	27 389	0.01	99.96	0.00
85	(84)	Dominican Republic	24 000	0.01	99.97	0.00
86	(79)	Cambodia	18 430	0.01	99.97	0.00
87	(88)	Oman	15 003	0.01	99.98	0.00
88	(90)	Serbia	13 464	0.00	99.98	0.00
89	(89)	Jamaica	10 000	0.00	99.99	0.00
90	(69)	Norway	10 000	0.00	99.99	0.00
91	(94)	Kyrgyzstan	5 605	0.00	99.99	0.00
92	(93)	Iceland	5 000	0.00	100.00	0.00
93	(92)	Bolivia	4 494	0.00	100.00	0.00
94	(95)	Lebanon	3 000	0.00	100.00	0.00
95	(97)	Malta	1 600	0.00	100.00	0.00
96	(98)	Mauritius	1 500	0.00	100.00	0.00
97	(96)	Slovenia	1 437	0.00	100.00	0.00
98	(99)	Cape Verde	1 000	0.00	100.00	0.00
99	(100)	Mongolia	533	0.00	100.00	0.00
100	(101)	Benin	500	0.00	100.00	0.00
		Total	288 947 516	100.00		HHI 910

## Sulfur

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	14 450 000	17.51	17.51	306.58
2	( 2)	United States	8 710 000	10.55	28.06	111.39
3	( 3)	Russia	7 175 000	8.69	36.76	75.59
4	( 5)	Canada	6 938 000	8.41	45.16	70.68
5	( 4)	Saudi Arabia	6 600 000	8.00	53.16	63.96
6	( 6)	United Arab Emirates	6 000 000	7.27	60.43	52.86
7	( 7)	India	3 900 950	4.73	65.16	22.34
8	( 9)	Kazakhstan	3 337 050	4.04	69.20	16.35
9	( 8)	Japan	3 329 400	4.03	73.24	16.28
10	(10)	Iran	2 200 000	2.67	75.90	7.11
11	(12)	Qatar	2 050 000	2.48	78.39	6.17
12	(11)	Korea, South	2 000 000	2.42	80.81	5.87
13	(13)	Chile	1 520 400	1.84	82.65	3.39
14	(19)	Italy	1 261 100	1.53	84.18	2.34
15	(14)	Poland	1 210 240	1.47	85.65	2.15
16	(15)	Philippines	1 050 000	1.27	86.92	1.62
17	(16)	Zambia	960 200	1.16	88.08	1.35

18	(33)	South Africa	919 624	1.11	89.20	1.24
19	(17)	Australia	900 000	1.09	90.29	1.19
20	(18)	Finland	811 600	0.98	91.27	0.97
21	(22)	Spain	663 100	0.80	92.08	0.65
22	(21)	Kuwait	623 300	0.76	92.83	0.57
23	(23)	Peru	511 500	0.62	93.45	0.38
24	(25)	Indonesia	500 000	0.61	94.06	0.37
25	(24)	Brazil	500 000	0.61	94.66	0.37
26	(20)	Venezuela	500 000	0.61	95.27	0.37
27	(26)	France	500 000	0.61	95.87	0.37
28	(30)	Germany	460 012	0.56	96.43	0.31
29	(28)	Bulgaria	379 400	0.46	96.89	0.21
30	(29)	Mexico	364 967	0.44	97.33	0.20
31	(27)	Turkmenistan	330 000	0.40	97.73	0.16
32	(31)	Greece	260 000	0.32	98.05	0.10
33	(32)	Turkey	242 600	0.29	98.34	0.09
34	(34)	Ukraine	220 400	0.27	98.61	0.07
35	(35)	Taiwan	195 358	0.24	98.85	0.06
36	(37)	Bahrain	139 655	0.17	99.01	0.03
37	(38)	Libya	130 000	0.16	99.17	0.02
38	(39)	United Kingdom	130 000	0.16	99.33	0.02
39	(36)	Colombia	100 203	0.12	99.45	0.01
40	(40)	Norway	100 000	0.12	99.57	0.01
41	(41)	Lithuania	86 040	0.10	99.68	0.01
42	(43)	Egypt	80 000	0.10	99.77	0.01
43	(42)	Oman	79 140	0.10	99.87	0.01
44	(44)	Iraq	40 000	0.05	99.92	0.00
45	(45)	Pakistan	20 715	0.03	99.94	0.00
46	(47)	Armenia	10 500	0.01	99.96	0.00
47	(46)	Jordan	10 000	0.01	99.97	0.00
48	(48)	Korea, North	10 000	0.01	99.98	0.00
49	(49)	Austria	6 768	0.01	99.99	0.00
50	(50)	Algeria	6 000	0.01	100.00	0.00
51	(51)	Denmark	3 554	0.00	100.00	0.00
		Total	82 526 776	100.00		HHI 774

## Talc

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 450 000	30.82	30.82	949.95
2	( 2)	India	1 640 000	20.63	51.45	425.65
3	( 3)	Brazil	650 000	8.18	59.63	66.86
4	( 4)	United States	578 000	7.27	66.90	52.87
5	( 5)	France	400 000	5.03	71.93	25.32
6	( 7)	Korea, South	330 250	4.15	76.09	17.26
7	( 6)	Finland	329 891	4.15	80.24	17.22
8	( 9)	Canada	243 000	3.06	83.29	9.35
9	(12)	Pakistan	167 148	2.10	85.40	4.42
10	(10)	Italy	160 000	2.01	87.41	4.05
11	(11)	Japan	160 000	2.01	89.42	4.05
12	(13)	Australia	140 000	1.76	91.18	3.10
13	(15)	South Africa	135 430	1.70	92.89	2.90
14	(14)	Austria	124 184	1.56	94.45	2.44
15	( 8)	Turkey	92 077	1.16	95.61	1.34
16	(20)	Slovakia	70 100	0.88	96.49	0.78

17	(16)	Iran	49 650	0.62	97.12	0.39
18	(19)	Saudi Arabia	48 000	0.60	97.72	0.36
19	(18)	Peru	43 974	0.55	98.27	0.31
20	(21)	Korea, North	40 000	0.50	98.78	0.25
21	(22)	Spain	15 000	0.19	98.96	0.04
22	(23)	Egypt	15 000	0.19	99.15	0.04
23	(17)	Thailand	14 564	0.18	99.34	0.03
24	(26)	Portugal	12 901	0.16	99.50	0.03
25	(25)	Russia	10 000	0.13	99.62	0.02
26	(24)	Argentina	10 000	0.13	99.75	0.02
27	(28)	Mexico	7 202	0.09	99.84	0.01
28	(27)	Nepal	3 463	0.04	99.88	0.00
29	(30)	Nigeria	2 500	0.03	99.92	0.00
30	(29)	Sudan	2 000	0.03	99.94	0.00
31	(**)	Colombia	1 680	0.02	99.96	0.00
32	(33)	United Kingdom	1 600	0.02	99.98	0.00
33	(32)	Bhutan	1 375	0.02	100.00	0.00
34	(35)	Uruguay	50	0.00	100.00	0.00
35	(31)	Guatemala	10	0.00	100.00	0.00
36	(36)	Taiwan	6	0.00	100.00	0.00
Total			7 949 055	100.00		HHI 1 589

## Vermiculite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	158 013	38.00	38.00	1 443.75
2	( 2)	United States	100 000	24.05	62.04	578.24
3	( 3)	China	50 000	12.02	74.07	144.56
4	( 4)	Brazil	47 581	11.44	85.51	130.91
5	( 5)	Zimbabwe	26 200	6.30	91.81	39.69
6	( 6)	Russia	20 000	4.81	96.62	23.13
7	( 8)	Uganda	9 674	2.33	98.94	5.41
8	( 9)	India	2 774	0.67	99.61	0.44
9	( 7)	Turkey	1 370	0.33	99.94	0.11
10	(10)	Mexico	148	0.04	99.98	0.00
11	(**)	Kenya	100	0.02	100.00	0.00
Total			415 860	100.00		HHI 2 366

## Zircon

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	710 000	42.62	42.62	1 816.85
2	( 2)	South Africa	340 000	20.41	63.04	416.64
3	( 3)	China	140 000	8.40	71.44	70.64
4	( 4)	United States	100 000	6.00	77.44	36.04
5	( 6)	Mozambique	87 100	5.23	82.67	27.34
6	( 5)	Senegal	80 747	4.85	87.52	23.50
7	( 7)	Indonesia	73 100	4.39	91.91	19.26

8	( 8)	Kenya	30 440	1.83	93.74	3.34
9	( 9)	Madagascar	28 500	1.71	95.45	2.93
10	(10)	Brazil	22 000	1.32	96.77	1.74
11	(11)	Ukraine	18 000	1.08	97.85	1.17
12	(12)	India	12 000	0.72	98.57	0.52
13	(13)	Sierra Leone	8 500	0.51	99.08	0.26
14	(14)	Vietnam	6 600	0.40	99.48	0.16
15	(15)	Russia	6 300	0.38	99.85	0.14
16	(17)	Nigeria	1 000	0.06	99.91	0.00
17	(18)	Sri Lanka	971	0.06	99.97	0.00
18	(19)	Malaysia	449	0.03	100.00	0.00
		Total	1 665 707	100.00		HHI 2 421

## 6.5.5 Mineral Fuels

### Steam Coal

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 967 272 082	49.78	49.78	2 478.34
2	( 2)	India	677 936 000	11.37	61.16	129.37
3	( 4)	Indonesia	610 407 030	10.24	71.40	104.88
4	( 3)	United States	521 540 300	8.75	80.15	76.56
5	( 6)	Australia	271 618 000	4.56	84.70	20.77
6	( 5)	Russia	266 700 000	4.47	89.18	20.02
7	( 7)	South Africa	249 665 481	4.19	93.37	17.55
8	( 8)	Kazakhstan	98 593 000	1.65	95.02	2.74
9	( 9)	Colombia	75 042 100	1.26	96.28	1.59
10	(10)	Poland	50 009 000	0.84	97.12	0.70
11	(11)	Vietnam	46 387 000	0.78	97.90	0.61
12	(12)	Ukraine	19 747 200	0.33	98.23	0.11
13	(14)	Korea, North	17 730 000	0.30	98.53	0.09
14	(13)	Canada	16 757 000	0.28	98.81	0.08
15	(15)	Philippines	15 273 525	0.26	99.06	0.07
16	(16)	Mongolia	7 793 800	0.13	99.20	0.02
17	(18)	Mexico	6 175 726	0.10	99.30	0.01
18	(19)	Pakistan	5 371 865	0.09	99.39	0.01
19	(17)	Mozambique	4 983 146	0.08	99.47	0.01
20	(20)	Brazil	3 812 975	0.06	99.54	0.00
21	(22)	Malaysia	3 459 122	0.06	99.59	0.00
22	(21)	Zimbabwe	2 486 960	0.04	99.64	0.00
23	(24)	Afghanistan	2 139 200	0.04	99.67	0.00
24	(23)	Botswana	2 110 891	0.04	99.71	0.00
25	(28)	Tajikistan	2 027 790	0.03	99.74	0.00
26	(26)	Turkey	2 013 000	0.03	99.78	0.00
27	(25)	Chile	1 606 554	0.03	99.80	0.00
28	(30)	New Zealand	1 550 470	0.03	99.83	0.00
29	(34)	Myanmar	1 478 765	0.02	99.85	0.00
30	(29)	United Kingdom	1 476 950	0.02	99.88	0.00
31	(27)	Czech Republic	1 335 497	0.02	99.90	0.00
32	(32)	Korea, South	1 084 000	0.02	99.92	0.00
33	(33)	Bangladesh	805 696	0.01	99.93	0.00
34	(36)	Tanzania	712 136	0.01	99.94	0.00



35	(37)	Iran	485 000	0.01	99.95	0.00
36	(38)	Nigeria	400 000	0.01	99.96	0.00
37	(49)	Venezuela	379 907	0.01	99.97	0.00
38	(40)	Kyrgyzstan	344 830	0.01	99.97	0.00
39	(39)	Zambia	270 013	0.00	99.98	0.00
40	(44)	Uzbekistan	245 168	0.00	99.98	0.00
41	(41)	Niger	213 344	0.00	99.98	0.00
42	(43)	Bhutan	184 785	0.00	99.99	0.00
43	(42)	Peru	181 023	0.00	99.99	0.00
44	(47)	Laos	161 494	0.00	99.99	0.00
45	(50)	Argentina	154 782	0.00	99.99	0.00
46	(45)	Norway	117 000	0.00	100.00	0.00
47	(46)	Eswatini	109 926	0.00	100.00	0.00
48	(51)	Malawi	54 728	0.00	100.00	0.00
49	(48)	Georgia	15 300	0.00	100.00	0.00
50	(52)	Nepal	7 184	0.00	100.00	0.00
		Total	5 960 426 745	100.00		HHI 2 854

## Coking Coal

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	502 544 830	49.00	49.00	2 400.97
2	( 2)	Australia	188 251 000	18.36	67.35	336.91
3	( 3)	Russia	93 900 000	9.16	76.51	83.82
4	( 4)	United States	64 168 100	6.26	82.77	39.14
5	( 5)	India	52 937 000	5.16	87.93	26.64
6	( 6)	Canada	33 921 000	3.31	91.24	10.94
7	( 7)	Mongolia	30 516 900	2.98	94.21	8.85
8	( 8)	Poland	12 071 000	1.18	95.39	1.39
9	( 9)	Kazakhstan	10 478 500	1.02	96.41	1.04
10	(14)	Ukraine	5 783 200	0.56	96.97	0.32
11	(12)	Indonesia	5 752 018	0.56	97.53	0.31
12	(10)	Mozambique	5 356 390	0.52	98.06	0.27
13	(11)	Colombia	5 302 760	0.52	98.57	0.27
14	(13)	Mexico	3 975 400	0.39	98.96	0.15
15	(15)	South Africa	3 903 518	0.38	99.34	0.14
16	(16)	Czech Republic	2 309 833	0.23	99.57	0.05
17	(17)	Iran	1 600 000	0.16	99.72	0.02
18	(19)	New Zealand	1 200 900	0.12	99.84	0.01
19	(21)	Turkey	704 000	0.07	99.91	0.00
20	(20)	United Kingdom	689 450	0.07	99.98	0.00
21	(22)	Zimbabwe	242 960	0.02	100.00	0.00
		Total	1 025 608 759	100.00		HHI 2 911

## Lignite

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Germany	131 314 000	17.75	17.75	315.19
2	( 2)	Turkey	87 280 000	11.80	29.55	139.25
3	( 3)	Russia	80 800 000	10.92	40.48	119.34
4	( 4)	Poland	52 855 000	7.15	47.62	51.06
5	( 5)	United States	48 255 700	6.52	54.15	42.56
6	( 6)	Australia	43 315 000	5.86	60.00	34.29
7	( 7)	India	42 103 000	5.69	65.70	32.40
8	( 9)	Serbia	38 880 520	5.26	70.95	27.63
9	( 8)	Czech Republic	37 465 000	5.07	76.02	25.66
10	(11)	Bulgaria	29 462 615	3.98	80.00	15.87
11	(10)	Greece	27 383 575	3.70	83.70	13.71
12	(12)	Romania	21 652 320	2.93	86.63	8.57
13	(13)	Laos	15 263 562	2.06	88.69	4.26
14	(14)	Thailand	14 077 965	1.90	90.60	3.62
15	(15)	Bosnia-Herzegovina	13 376 548	1.81	92.41	3.27
16	(16)	Canada	8 849 000	1.20	93.60	1.43
17	(19)	Kosovo	8 063 051	1.09	94.69	1.19
18	(17)	Hungary	6 846 837	0.93	95.62	0.86
19	(18)	Mongolia	6 672 000	0.90	96.52	0.81
20	(20)	Kazakhstan	5 928 900	0.80	97.32	0.64
21	(21)	North Macedonia	5 066 083	0.68	98.01	0.47
22	(22)	Uzbekistan	3 807 600	0.51	98.52	0.27
23	(23)	Slovenia	3 218 696	0.44	98.96	0.19
24	(24)	Kyrgyzstan	2 187 900	0.30	99.25	0.09
25	(26)	Montenegro	1 605 200	0.22	99.47	0.05
26	(28)	Brazil	1 596 696	0.22	99.69	0.05
27	(27)	Slovakia	1 474 830	0.20	99.89	0.04
28	(29)	Myanmar	462 793	0.06	99.95	0.00
29	(30)	New Zealand	287 830	0.04	99.99	0.00
30	(31)	Albania	95 380	0.01	100.00	0.00
		Total	739 647 601	100.00		HHI 843

## Natural Gas

Rank 2019	Rank 2018	Country	Production 2019 Mio m <sup>3</sup>	Share in %	Share cum. %	Share HHI
1	( 1)	United States	961 860	23.63	23.63	558.43
2	( 2)	Russia	717 960	17.64	41.27	311.13
3	( 3)	Iran	244 155	6.00	47.27	35.98
4	( 6)	China	176 174	4.33	51.60	18.73
5	( 5)	Qatar	167 610	4.12	55.71	16.96
6	( 4)	Canada	164 957	4.05	59.77	16.42
7	( 7)	Australia	154 485	3.80	63.56	14.41
8	( 9)	Saudi Arabia	117 000	2.87	66.44	8.26
9	( 8)	Norway	115 123	2.83	69.27	8.00
10	(10)	Algeria	90 349	2.22	71.49	4.93
11	(12)	Turkmenistan	71 000	1.74	73.23	3.04
12	(13)	Malaysia	68 470	1.68	74.91	2.83
13	(11)	Indonesia	67 160	1.65	76.56	2.72
14	(16)	Egypt	64 940	1.60	78.16	2.55

15	(14)	United Arab Emirates	62 531	1.54	79.69	2.36
16	(15)	Uzbekistan	59 460	1.46	81.15	2.13
17	(17)	Nigeria	51 870	1.27	82.43	1.62
18	(19)	Argentina	43 220	1.06	83.49	1.13
19	(18)	Pakistan	40 679	1.00	84.49	1.00
20	(21)	Oman	37 460	0.92	85.41	0.85
21	(24)	Thailand	37 450	0.92	86.33	0.85
22	(22)	Trinidad and Tobago	35 546	0.87	87.20	0.76
23	(20)	United Kingdom	34 555	0.85	88.05	0.72
24	(25)	Kazakhstan	33 100	0.81	88.87	0.66
25	(23)	Netherlands	31 927	0.78	89.65	0.62
26	(26)	India	30 257	0.74	90.39	0.55
27	(28)	Mexico	29 370	0.72	91.12	0.52
28	(30)	Brazil	27 358	0.67	91.79	0.45
29	(29)	Bangladesh	27 230	0.67	92.46	0.45
30	(27)	Venezuela	26 456	0.65	93.11	0.42
31	(32)	Azerbaijan	24 514	0.60	93.71	0.36
32	(31)	Ukraine	20 520	0.50	94.21	0.25
33	(35)	Myanmar	18 810	0.46	94.67	0.21
34	(36)	Bahrain	17 120	0.42	95.10	0.18
35	(33)	Bolivia	16 505	0.41	95.50	0.16
36	(37)	Libya	14 190	0.35	95.85	0.12
37	(34)	Kuwait	13 952	0.34	96.19	0.12
38	(38)	Peru	13 429	0.33	96.52	0.11
39	(39)	Brunei	12 504	0.31	96.83	0.09
40	(40)	Colombia	11 800	0.29	97.12	0.08
41	(41)	Iraq	10 779	0.26	97.38	0.07
42	(43)	Vietnam	10 210	0.25	97.63	0.06
43	(42)	Romania	9 959	0.24	97.88	0.06
44	(44)	Israel	9 035	0.22	98.10	0.05
45	(47)	Angola	6 800	0.17	98.27	0.03
46	(46)	Germany	6 699	0.16	98.43	0.03
47	(45)	Equatorial Guinea	6 235	0.15	98.59	0.02
48	(50)	Poland	4 976	0.12	98.71	0.01
49	(48)	Italy	4 852	0.12	98.83	0.01
50	(49)	Mozambique	4 620	0.11	98.94	0.01
51	(52)	New Zealand	4 464	0.11	99.05	0.01
52	(51)	Philippines	4 403	0.11	99.16	0.01
53	(56)	Papua New Guinea	3 339	0.08	99.24	0.01
54	(54)	Syria	3 330	0.08	99.32	0.01
55	(53)	Denmark	3 138	0.08	99.40	0.01
56	(57)	Japan	2 524	0.06	99.46	0.00
57	(55)	Ireland	2 390	0.06	99.52	0.00
58	(59)	Cote d'Ivoire	2 066	0.05	99.57	0.00
59	(62)	Cameroon	2 010	0.05	99.62	0.00
60	(61)	Tanzania	1 807	0.04	99.67	0.00
61	(58)	Tunisia	1 780	0.04	99.71	0.00
62	(67)	Ghana	1 610	0.04	99.75	0.00
63	(60)	Hungary	1 382	0.03	99.78	0.00
64	(64)	Chile	1 339	0.03	99.82	0.00
65	(63)	Croatia	1 029	0.03	99.84	0.00
66	(65)	Cuba	951	0.02	99.86	0.00
67	(66)	Austria	891	0.02	99.89	0.00
68	(69)	South Africa	658	0.02	99.90	0.00
69	(68)	Congo, Rep.	580	0.01	99.92	0.00
70	(72)	Turkey	483	0.01	99.93	0.00
71	(70)	Gabon	464	0.01	99.94	0.00
72	(71)	Serbia	439	0.01	99.95	0.00
73	(73)	Ecuador	303	0.01	99.96	0.00
74	(74)	Korea, South	229	0.01	99.96	0.00
75	(75)	Belarus	218	0.01	99.97	0.00
76	(76)	Taiwan	167	0.00	99.97	0.00

77	(77)	Czech Republic	146	0.00	99.98	0.00
78	(82)	Spain	135	0.00	99.98	0.00
79	(78)	Afghanistan	129	0.00	99.98	0.00
80	(85)	France	122	0.00	99.99	0.00
81	(79)	Yemen	100	0.00	99.99	0.00
82	(83)	Morocco	99	0.00	99.99	0.00
83	(80)	Jordan	95	0.00	99.99	0.00
84	(81)	Slovakia	80	0.00	100.00	0.00
85	(84)	Albania	71	0.00	100.00	0.00
86	(86)	Bulgaria	35	0.00	100.00	0.00
87	(87)	Kyrgyzstan	24	0.00	100.00	0.00
88	(89)	Barbados	20	0.00	100.00	0.00
89	(91)	Senegal	16	0.00	100.00	0.00
90	(92)	Georgia	10	0.00	100.00	0.00
91	(90)	Greece	9	0.00	100.00	0.00
92	(88)	Slovenia	8	0.00	100.00	0.00
93	(93)	Tajikistan	1	0.00	100.00	0.00
Total			4 070 315	100.00		HHI 1 022

## Petroleum

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	806 659 400	18.18	18.18	330.49
2	( 3)	Russia	560 256 690	12.63	30.81	159.42
3	( 2)	Saudi Arabia	556 564 010	12.54	43.35	157.33
4	( 4)	Canada	235 042 500	5.30	48.65	28.06
5	( 5)	Iraq	234 220 860	5.28	53.92	27.86
6	( 7)	China	191 014 100	4.30	58.23	18.53
7	( 8)	United Arab Emirates	180 249 910	4.06	62.29	16.50
8	( 6)	Iran	160 831 240	3.62	65.92	13.14
9	(10)	Brazil	143 933 400	3.24	69.16	10.52
10	( 9)	Kuwait	133 347 200	3.01	72.17	9.03
11	(12)	Nigeria	100 287 000	2.26	74.43	5.11
12	(11)	Mexico	94 161 830	2.12	76.55	4.50
13	(13)	Kazakhstan	90 555 400	2.04	78.59	4.16
14	(14)	Norway	79 388 000	1.79	80.38	3.20
15	(16)	Qatar	71 766 435	1.62	81.99	2.62
16	(17)	Angola	66 684 450	1.50	83.50	2.26
17	(18)	Algeria	64 330 000	1.45	84.95	2.10
18	(21)	Libya	54 609 200	1.23	86.18	1.51
19	(19)	United Kingdom	52 185 520	1.18	87.35	1.38
20	(20)	Oman	48 339 200	1.09	88.44	1.19
21	(15)	Venezuela	46 625 600	1.05	89.49	1.10
22	(22)	Colombia	44 101 940	0.99	90.49	0.99
23	(23)	Azerbaijan	37 501 200	0.85	91.33	0.71
24	(24)	Indonesia	37 104 200	0.84	92.17	0.70
25	(26)	Egypt	33 550 490	0.76	92.93	0.57
26	(25)	India	32 169 270	0.72	93.65	0.53
27	(27)	Malaysia	30 102 900	0.68	94.33	0.46
28	(28)	Ecuador	26 442 000	0.60	94.93	0.36
29	(29)	Argentina	25 323 400	0.57	95.50	0.33
30	(30)	Australia	22 484 230	0.51	96.00	0.26
31	(31)	Congo, Rep.	17 430 000	0.39	96.40	0.15
32	(32)	Vietnam	13 090 000	0.30	96.69	0.09
33	(33)	Thailand	11 362 120	0.26	96.95	0.07

34	(35)	Gabon	10 848 000	0.24	97.19	0.06
35	(34)	Turkmenistan	10 420 000	0.23	97.43	0.06
36	(36)	Ghana	10 301 400	0.23	97.66	0.05
37	(37)	Equatorial Guinea	7 172 620	0.16	97.82	0.03
38	(38)	Peru	6 956 200	0.16	97.98	0.02
39	(39)	South Sudan	6 832 520	0.15	98.13	0.02
40	(40)	Chad	6 316 700	0.14	98.27	0.02
41	(42)	Brunei	6 040 240	0.14	98.41	0.02
42	(41)	Denmark	5 017 234	0.11	98.52	0.01
43	(44)	Pakistan	4 433 150	0.10	98.62	0.01
44	(43)	Italy	4 279 000	0.10	98.72	0.01
45	(46)	Sudan	3 805 600	0.09	98.80	0.01
46	(45)	Romania	3 568 000	0.08	98.88	0.01
47	(47)	Cameroon	3 545 900	0.08	98.96	0.01
48	(49)	Uzbekistan	3 010 894	0.07	99.03	0.00
49	(50)	Turkey	2 984 800	0.07	99.10	0.00
50	(48)	Trinidad and Tobago	2 930 780	0.07	99.17	0.00
51	(53)	Ukraine	2 453 600	0.06	99.22	0.00
52	(52)	Cuba	2 400 000	0.05	99.27	0.00
53	(58)	Yemen	2 387 000	0.05	99.33	0.00
54	(51)	Bolivia	2 249 127	0.05	99.38	0.00
55	(54)	Bahrain	2 109 850	0.05	99.43	0.00
56	(55)	Germany	1 923 232	0.04	99.47	0.00
57	(57)	Papua New Guinea	1 889 900	0.04	99.51	0.00
58	(56)	Tunisia	1 859 060	0.04	99.55	0.00
59	(60)	Cote d'Ivoire	1 799 700	0.04	99.60	0.00
60	(59)	Belarus	1 690 000	0.04	99.63	0.00
61	(61)	Congo, D.R.	1 113 260	0.03	99.66	0.00
62	(63)	New Zealand	1 088 120	0.02	99.68	0.00
63	(64)	Syria	1 024 820	0.02	99.71	0.00
64	(67)	Albania	1 005 090	0.02	99.73	0.00
65	(68)	Mongolia	937 900	0.02	99.75	0.00
66	(65)	Poland	936 760	0.02	99.77	0.00
67	(71)	Hungary	930 000	0.02	99.79	0.00
68	(62)	Netherlands	892 600	0.02	99.81	0.00
69	(69)	Niger	889 600	0.02	99.83	0.00
70	(66)	Serbia	881 000	0.02	99.85	0.00
71	(70)	Suriname	825 200	0.02	99.87	0.00
72	(72)	France	720 000	0.02	99.89	0.00
73	(73)	Croatia	705 700	0.02	99.90	0.00
74	(74)	Philippines	652 300	0.01	99.92	0.00
75	(75)	Austria	642 953	0.01	99.93	0.00
76	(76)	Bangladesh	565 140	0.01	99.94	0.00
77	(78)	Guatemala	478 200	0.01	99.96	0.00
78	(79)	Japan	470 200	0.01	99.97	0.00
79	(77)	Myanmar	429 000	0.01	99.98	0.00
80	(81)	Kyrgyzstan	236 400	0.01	99.98	0.00
81	(80)	Greece	164 905	0.00	99.98	0.00
82	(82)	Chile	161 520	0.00	99.99	0.00
83	(85)	Israel	84 020	0.00	99.99	0.00
84	(83)	Czech Republic	81 000	0.00	99.99	0.00
85	(86)	Mozambique	41 250	0.00	99.99	0.00
86	(84)	Spain	40 244	0.00	99.99	0.00
87	(87)	Lithuania	39 570	0.00	99.99	0.00
88	(88)	Georgia	35 100	0.00	100.00	0.00
89	(**)	Kenya	32 400	0.00	100.00	0.00
90	(89)	Barbados	29 880	0.00	100.00	0.00
91	(92)	South Africa	29 774	0.00	100.00	0.00
92	(94)	Senegal	28 500	0.00	100.00	0.00
93	(91)	Tajikistan	23 293	0.00	100.00	0.00
94	(90)	Korea, South	21 130	0.00	100.00	0.00
95	(93)	Bulgaria	20 000	0.00	100.00	0.00

96	(95)	Slovakia	6 331	0.00	100.00	0.00
97	(96)	Morocco	4 335	0.00	100.00	0.00
98	(97)	Taiwan	3 300	0.00	100.00	0.00
99	(98)	Jordan	1 000	0.00	100.00	0.00
100	(99)	Slovenia	490	0.00	100.00	0.00
Total			4 437 210 487	100.00		HHI 806

### Oil Sands (part of Petroleum)

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Canada	146 849 700	93.65	93.65	8 770.01
2	( 2)	Venezuela	9 960 000	6.35	100.00	40.34
Total			156 809 700	100.00		HHI 8 810

### Oil Shales

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Estonia	15 697 400	94.62	94.62	8 953.53
2	( 2)	Germany	487 012	2.94	97.56	8.62
3	( 3)	Israel	402 882	2.43	99.99	5.90
4	( 4)	France	2 000	0.01	100.00	0.00
5	( 5)	Austria	100	0.00	100.00	0.00
Total			16 589 394	100.00		HHI 8 968

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

Rank 2019	Rank 2018	Country	Production 2019 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Kazakhstan	26 895	41.75	41.75	1 743.13
2	( 2)	Canada	8 370	12.99	54.74	168.82
3	( 3)	Australia	7 726	11.99	66.74	143.85
4	( 4)	Namibia	6 459	10.03	76.76	100.53
5	( 5)	Uzbekistan	4 127	6.41	83.17	41.04
6	( 6)	Niger	3 516	5.46	88.63	29.79
7	( 7)	Russia	3 433	5.33	93.96	28.40
8	( 8)	China	2 223	3.45	97.41	11.91
9	( 9)	Ukraine	944	1.47	98.87	2.15
10	(11)	India	363	0.56	99.44	0.32
11	(12)	South Africa	163	0.25	99.69	0.06

12	(10)	United States	79	0.12	99.81	0.02
13	(13)	Pakistan	53	0.08	99.90	0.01
14	(14)	Czech Republic	39	0.06	99.96	0.00
15	(**)	Germany	28	0.04	100.00	0.00
		Total	64 418	100.00		HHI 2 270

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

### Afghanistan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	2 500	2 000	2 000	2 000	2 000	-20.00	0.00
Fluorspar	(t)	5 500	7 624	7 522	10 000	50 000	809.09	400.00
Gypsum	(t)	57 000	57 000	40 000	36 161	24 371	-57.24	-32.60
Salt	(t)	88 183	56 928	75 579	47 944	114 245	29.55	138.29
Steam Coal	(t)	1 364 800	1 698 200	2 191 400	2 444 600	2 139 200	56.74	-12.49
Nat. Gas	(Mio m <sup>3</sup> )	146	165	156	153	129	-11.64	-15.69
<b>Total</b>	<b>(t)</b>	<b>1 634 783</b>	<b>1 953 752</b>	<b>2 441 301</b>	<b>2 663 105</b>	<b>2 433 016</b>		

### Albania

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	284 100	317 500	351 500	497 100	488 700	72.02	-1.69
Nickel	(t)	7 460	4 400	5 760	4 050	2 960	-60.32	-26.91
Copper	(t)	2 190	2 020	0	3 780	5 900	169.41	56.08
Gypsum	(t)	86 163	131 924	104 120	102 016	98 000	13.74	-3.94
Salt	(t)	22 100	15 500	25 500	31 500	30 000	35.75	-4.76
Lignite	(t)	276 000	16 800	138 800	295 800	95 380	-65.44	-67.76
Nat. Gas	(Mio m <sup>3</sup> )	34	88	91	82	71	108.82	-13.41
Petroleum	(t)	1 279 220	1 055 730	958 940	910 670	1 005 090	-21.43	10.37
<b>Total</b>	<b>(t)</b>	<b>1 984 433</b>	<b>1 614 274</b>	<b>1 657 420</b>	<b>1 910 516</b>	<b>1 782 830</b>		

### Algeria

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	509 800	328 300	268 400	381 200	409 900	-19.60	7.53
Zinc	(t)	50	330	350	500	500	900.00	0.00
Gold	(kg)	106	102	137	286	70	-33.96	-75.52
Silver	(kg)	20	20	25	30	30	50.00	0.00
Baryte	(t)	32 020	39 980	29 159	39 426	31 138	-2.75	-21.02
Bentonite	(t)	34 400	37 100	35 600	36 000	36 700	6.69	1.94
Diatomite	(t)	2 360	2 535	2 439	2 468	2 437	3.26	-1.26



Feldspar	(t)	154 500	168 000	170 000	170 000	170 000	10.03	0.00
Gypsum	(t)	2 207 000	2 200 000	2 200 000	2 200 000	2 200 000	-0.32	0.00
Kaolin	(t)	51 000	96 000	100 000	100 000	100 000	96.08	0.00
Phosphates	(t)	438 200	433 200	378 100	409 400	455 100	3.86	11.16
Salt	(t)	175 500	158 000	165 000	106 200	100 800	-42.56	-5.08
Sulfur	(t)	5 000	6 000	6 000	6 000	6 000	20.00	0.00
Nat. Gas	(Mio m <sup>3</sup> )	84 583	94 953	96 599	97 467	90 349	6.82	-7.30
Petroleum	(t)	67 064 000	68 417 000	66 667 000	65 331 000	64 330 000	-4.08	-1.53
Total	(t)	138 340 230	147 848 845	147 301 248	146 755 794	140 121 775		

## Angola

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Diam. (Gem)	(ct)	8 117 048	8 119 320	8 494 920	7 567 820	8 234 770	1.45	8.81
Diam. (Ind)	(ct)	901 894	902 147	943 880	840 870	914 975	1.45	8.81
Gypsum	(t)	127 910	0	32 000	32 000	32 000	-74.98	0.00
Salt	(t)	47 845	93 000	101 000	110 000	109 000	127.82	-0.91
Nat. Gas	(Mio m <sup>3</sup> )	770	1 710	5 800	6 190	6 800	783.12	9.85
Petroleum	(t)	89 457 000	85 152 000	78 608 000	71 311 500	66 684 450	-25.46	-6.49
Total	(t)	90 248 757	86 613 002	83 381 002	76 405 502	72 265 452		

## Argentina

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	206 060	107 280	28 400	40 560	0	-100.00	-100.00
Molybdenum	(t)	869	479	651	364	0	-100.00	-100.00
Aluminium	(t)	431 901	428 957	431 239	439 600	438 434	1.51	-0.27
Cadmium	(t)	107	91	96	74	45	-57.94	-39.19
Copper	(t)	61 765	81 902	33 303	17 435	0	-100.00	-100.00
Lead	(t)	29 834	28 016	40 135	28 260	29 768	-0.22	5.34
Lithium	(t)	7 860	12 200	12 360	13 810	13 670	73.92	-1.01
Mercury	(t)	59	135	54	50	50	-15.25	0.00
Zinc	(t)	30 498	22 792	23 392	22 050	14 877	-51.22	-32.53
Gold	(kg)	63 231	56 967	60 956	58 375	53 092	-16.03	-9.05
Silver	(kg)	1 175 246	1 055 700	997 961	1 023 768	1 039 813	-11.52	1.57
Asbestos	(t)	130	0	26	0	0	-100.00	.
Baryte	(t)	12 917	12 389	15 553	7 225	3 898	-69.82	-46.05
Bentonite	(t)	229 715	145 723	156 750	184 969	120 000	-47.76	-35.12
Boron	(t)	248 683	148 390	129 918	71 212	54 700	-78.00	-23.19
Diatomite	(t)	60 951	57 113	70 419	72 490	94 090	54.37	29.80
Feldspar	(t)	186 974	155 217	154 770	124 500	10 000	-94.65	-91.97
Fluorspar	(t)	65 282	14 222	13 696	7 924	1 500	-97.70	-81.07
Graphite	(t)	900	0	0	0	0	-100.00	.
Gypsum	(t)	1 314 655	1 558 390	1 275 608	897 217	761 013	-42.11	-15.18
Kaolin	(t)	62 214	26 198	19 940	17 000	11 853	-80.95	-30.28
Perlite	(t)	23 282	17 905	19 924	18 794	1 850	-92.05	-90.16

**Abbreviations:** see Explanation

Salt	(t)	1 400 777	1 812 285	1 929 065	1 784 020	984 700	-29.70	-44.80
Talc	(t)	33 774	16 266	15 330	13 072	10 000	-70.39	-23.50
Vermiculite	(t)	90	60	0	0	0	-100.00	.
Steam Coal	(t)	48 764	40 597	37 713	81 993	154 782	217.41	88.77
Nat. Gas (Mio m <sup>3</sup> )		39 190	40 760	39 740	40 930	43 220	10.28	5.59
Petroleum	(t)	26 508 000	25 487 500	23 879 000	24 369 600	25 323 400	-4.47	3.91
Total	(t)	62 319 299	62 783 220	60 080 401	60 957 301	62 605 723		

## Armenia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Molybdenum	(t)	5 131	5 771	5 038	5 422	7 137	39.10	31.63
Bismuth	(t)	2	1	1	0	0	-100.00	.
Copper	(t)	51 765	95 080	95 793	68 928	91 214	76.21	32.33
Rhenium	(kg)	104	405	375	405	450	332.69	11.11
Selenium	(t)	1	1	1	0	0	-100.00	.
Zinc	(t)	7 111	4 960	6 070	6 946	7 162	0.72	3.11
Gold	(kg)	2 805	3 732	4 670	4 967	5 825	107.66	17.27
Silver	(kg)	18 350	14 100	17 200	16 700	17 922	-2.33	7.32
Bentonite	(t)	9 228	13 956	24 712	0	0	-100.00	.
Diatomite	(t)	18 915	25 486	23 465	0	0	-100.00	.
Gypsum	(t)	19 400	14 831	14 336	20 387	22 907	18.08	12.36
Perlite	(t)	57 657	44 820	14 036	51 222	80 676	39.92	57.50
Salt	(t)	142 605	68 435	137 236	155 393	56 685	-60.25	-63.52
Sulfur	(t)	10 400	8 500	8 100	10 500	10 500	0.96	0.00
Total	(t)	322 236	281 859	328 810	318 820	276 305		

## Australia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	500 993 637	531 075 350	548 297 062	562 136 693	568 964 594	13.57	1.21
Cobalt	(t)	5 930	5 183	5 034	4 878	5 746	-3.10	17.79
Manganese	(t)	3 250 300	2 388 500	2 879 010	3 514 320	3 259 200	0.27	-7.26
Nickel	(t)	225 227	203 135	185 466	160 022	158 751	-29.52	-0.79
Tantalum	(t)	20	10	20	40	80	300.00	100.00
Titanium	(t)	1 053 300	1 070 000	993 000	875 250	780 465	-25.90	-10.83
Tungsten	(t)	348	108	5	0	0	-100.00	.
Aluminium	(t)	1 645 963	1 633 904	1 487 555	1 574 240	1 569 591	-4.64	-0.30
Antimony	(t)	4 213	4 285	3 131	2 173	2 032	-51.77	-6.49
Bauxite	(t)	80 909 261	83 517 148	89 420 589	95 947 593	105 543 787	30.45	10.00
Copper	(t)	995 881	947 555	849 121	910 896	934 055	-6.21	2.54
Lead	(t)	653 488	441 338	395 190	446 571	509 198	-22.08	14.02
Lithium	(t)	24 140	29 640	98 260	114 920	103 000	326.68	-10.37
Rare Earths	(t)	10 916	13 872	17 264	18 556	17 613	61.35	-5.08
Tin	(t)	7 158	6 635	7 402	6 871	7 738	8.10	12.62
Zinc	(t)	1 610 004	884 826	852 164	1 146 781	1 337 321	-16.94	16.62

**Abbreviations:** see Explanation

Gold	(kg)	277 372	290 767	292 022	313 028	325 711	17.43	4.05
Palladium	(kg)	425	610	610	430	390	-8.24	-9.30
Platinum	(kg)	108	152	155	110	95	-12.04	-13.64
Silver	(kg)	1 430 298	1 418 219	1 120 175	1 254 480	1 325 089	-7.36	5.63
Baryte	(t)	6 017	7 139	8 958	6 535	1 982	-67.06	-69.67
Bentonite	(t)	75 000	59 000	68 000	61 000	70 000	-6.67	14.75
Diam. (Gem)	(ct)	271 220	279 160	342 690	280 160	243 090	-10.37	-13.23
Diam. (Ind)	(ct)	13 289 580	13 678 840	16 792 040	13 727 890	11 911 450	-10.37	-13.23
Diatomite	(t)	4 923	1 033	1 085	4	8	-99.84	100.00
Feldspar	(t)	40 777	31 768	329	542	50	-99.88	-90.77
Gypsum	(t)	3 715 200	3 664 700	3 381 670	4 352 805	4 215 350	13.46	-3.16
Kaolin	(t)	153 365	222 229	192 150	173 738	114 050	-25.63	-34.36
Magnesite	(t)	663 212	469 455	210 844	263 446	413 182	-37.70	56.84
Perlite	(t)	0	620	275	2 285	1 264	.	-44.68
Phosphates	(t)	236 375	238 494	216 670	195 720	165 750	-29.88	-15.31
Salt	(t)	11 903 561	10 915 520	12 218 780	13 493 556	12 173 391	2.27	-9.78
Sulfur	(t)	900 000	900 000	900 000	900 000	900 000	0.00	0.00
Talc	(t)	80 000	111 000	120 000	130 000	140 000	75.00	7.69
Zircon	(t)	687 326	600 000	570 000	618 000	710 000	3.30	14.89
Steam Coal	(t)	256 014 000	249 568 000	252 748 000	259 784 000	271 618 000	6.09	4.56
Coking Coal	(t)	191 056 000	189 302 000	190 000 000	179 350 000	188 251 000	-1.47	4.96
Lignite	(t)	65 361 000	61 473 000	56 719 000	45 956 000	43 315 000	-33.73	-5.75
Nat. Gas (Mio m <sup>3</sup> )		76 791	97 328	113 805	130 987	154 485	101.18	17.94
Petroleum	(t)	18 463 390	17 292 880	16 630 520	17 393 890	22 484 230	21.78	29.27
Uranium	(t)	6 668	7 352	6 736	7 737	7 726	15.87	-0.14
Total	(t)	1 202 191 110	1 234 949 792	1 270 528 706	1 294 340 232	1 351 363 807		

## Austria

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	890 665	888 723	954 156	897 132	1 037 470	16.48	15.64
Tungsten	(t)	861	954	975	936	892	3.60	-4.70
Feldspar	(t)	35 000	35 000	35 000	35 000	35 000	0.00	0.00
Graphite	(t)	150	150	150	150	100	-33.33	-33.33
Gypsum	(t)	715 195	674 346	712 469	836 862	900 217	25.87	7.57
Kaolin	(t)	12 894	13 558	13 500	13 500	13 500	4.70	0.00
Magnesite	(t)	702 504	645 593	730 482	808 239	691 909	-1.51	-14.39
Salt	(t)	974 475	1 034 003	1 156 326	1 176 807	1 212 158	24.39	3.00
Sulfur	(t)	8 502	5 474	7 691	6 980	6 768	-20.40	-3.04
Talc	(t)	122 326	123 040	123 558	127 866	124 184	1.52	-2.88
Nat. Gas (Mio m <sup>3</sup> )		1 183	1 253	1 742	969	891	-24.68	-8.05
Oil Shales	(t)	68	169	170	150	100	47.06	-33.33
Petroleum	(t)	905 931	809 189	741 890	681 842	642 953	-29.03	-5.70
Total	(t)	5 314 971	5 232 599	5 869 967	5 360 664	5 378 051		

Abbreviations: see Explanation

## Azerbaijan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	53 590	10 710	0	0	0	-100.00	.
Aluminium	(t)	53 300	36 800	28 500	45 390	32 700	-38.65	-27.96
Copper	(t)	969	1 947	2 063	1 650	2 213	128.38	34.12
Gold	(kg)	2 240	2 034	3 667	4 239	3 897	73.97	-8.07
Silver	(kg)	890	5 136	6 949	8 943	8 160	816.85	-8.76
Bentonite	(t)	56 800	54 545	235 617	212 300	222 500	291.73	4.80
Gypsum	(t)	196 500	155 800	85 100	9 145	14 700	-92.52	60.74
Salt	(t)	39 461	63 931	66 968	66 699	77 116	95.42	15.62
Nat. Gas	(Mio m <sup>3</sup> )	19 236	18 718	18 186	19 207	24 514	27.44	27.63
Petroleum	(t)	41 628 300	41 050 400	38 688 400	38 814 300	37 501 200	-9.91	-3.38
Total	(t)	57 417 723	56 348 540	53 655 459	54 515 097	57 461 641		

## Bahamas

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	970 393	308 007	349 710	854 223	714 387	-26.38	-16.37
Total	(t)	970 393	308 007	349 710	854 223	714 387		

## Bahrain

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	960 643	971 420	981 016	1 011 101	1 365 005	42.09	35.00
Sulfur	(t)	140 800	134 790	144 805	139 370	139 655	-0.81	0.20
Nat. Gas	(Mio m <sup>3</sup> )	15 350	15 200	15 230	15 420	17 120	11.53	11.02
Petroleum	(t)	2 518 200	2 422 200	2 202 200	2 097 100	2 109 850	-16.22	0.61
Total	(t)	15 899 643	15 688 410	15 512 021	15 583 571	17 310 510		

## Bangladesh

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	1 282 000	1 620 000	1 660 000	1 490 000	1 224 000	-4.52	-17.85
Steam Coal	(t)	675 775	1 021 638	1 160 658	923 276	805 696	19.23	-12.74
Nat. Gas	(Mio m <sup>3</sup> )	25 264	27 558	27 450	27 430	27 230	7.78	-0.73
Petroleum	(t)	417 400	559 240	592 650	589 650	565 140	35.40	-4.16
Total	(t)	22 586 375	25 247 278	25 373 308	24 946 926	24 378 836		

**Abbreviations:** see Explanation

## Barbados

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nat. Gas (Mio m <sup>3</sup> )		20	17	15	14	20	0.00	42.86
Petroleum	(t)	34 030	31 750	32 050	29 970	29 880	-12.20	-0.30
Total	(t)	50 030	45 350	44 050	41 170	45 880		

## Belarus

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Potash	(t)	6 467 900	6 180 100	7 101 800	7 346 096	7 348 293	13.61	0.03
Salt	(t)	2 050 000	2 480 000	2 629 000	2 904 097	2 517 590	22.81	-13.31
Nat. Gas (Mio m <sup>3</sup> )		225	215	205	211	218	-3.11	3.32
Petroleum	(t)	1 645 000	1 645 000	1 650 000	1 670 000	1 690 000	2.74	1.20
Total	(t)	10 342 900	10 477 100	11 544 800	12 088 993	11 730 283		

## Belgium

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Arsenic	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Indium	(t)	20	20	20	20	20	0.00	0.00
Selenium	(t)	200	200	200	200	200	0.00	0.00
Total	(t)	1 220	1 220	1 220	1 220	1 220		

## Benin

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	6	7	5	5	5	-16.67	0.00
Salt	(t)	500	500	500	500	500	0.00	0.00
Total	(t)	500	500	500	500	500		

## Bhutan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	27 650	17 960	21 100	24 220	23 590	-14.68	-2.60
Gypsum	(t)	389 365	317 597	328 128	461 128	490 596	26.00	6.39
Talc	(t)	5 807	2 261	1 293	2 042	1 375	-76.32	-32.66

**Abbreviations:** see Explanation

Steam Coal	(t)	85 164	117 783	161 527	186 824	184 785	116.98	-1.09
Total	(t)	507 986	455 601	512 048	674 214	700 346		

## Bolivia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	14 180	1 710	22 230	41 560	45 830	223.20	10.27
Manganese	(t)			0	110	3 660	.	3 227.27
Tantalum	(t)	1	0	3	18	10	900.00	-44.44
Tungsten	(t)	1 461	1 109	1 015	1 366	1 064	-27.17	-22.11
Antimony	(t)	3 843	2 669	2 881	3 110	2 747	-28.52	-11.67
Arsenic	(t)	38	38	20	238	126	231.58	-47.06
Bismuth	(t)	20	57	8	39	0	-100.00	-100.00
Copper	(t)	9 479	8 718	7 219	5 216	4 478	-52.76	-14.15
Lead	(t)	75 273	89 906	113 286	112 140	88 002	16.91	-21.52
Lithium	(t)	0	10	20	10	160	.	1 500.00
Tin	(t)	20 135	17 460	18 386	17 251	17 194	-14.61	-0.33
Zinc	(t)	442 154	486 955	527 206	519 630	527 521	19.31	1.52
Gold	(kg)	19 770	22 545	28 726	31 599	42 000	112.44	32.92
Silver	(kg)	1 306 977	1 356 620	1 222 371	1 191 024	1 153 109	-11.77	-3.18
Baryte	(t)	46 732	16 632	29 114	53 163	39 458	-15.57	-25.78
Bentonite	(t)	1 023	525	68	2	0	-100.00	-100.00
Boron	(t)	148 738	182 685	208 388	216 403	214 269	44.06	-0.99
Gypsum	(t)	650	1 182	473	1 136	3 905	500.77	243.75
Salt	(t)	2 216	4 534	3 358	5 373	4 494	102.80	-16.36
Nat. Gas	(Mio m <sup>3</sup> )	21 994	21 280	20 680	18 808	16 505	-24.96	-12.24
Petroleum	(t)	3 027 200	2 817 500	2 711 300	2 534 273	2 249 127	-25.70	-11.25
Total	(t)	21 389 670	20 657 070	20 190 226	18 558 661	16 407 240		

## Bosnia-Herzegovina

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	1 082 630	893 420	827 170	704 050	739 600	-31.68	5.05
Manganese	(t)	3 200	1 000	0	0	0	-100.00	.
Aluminium	(t)	118 253	106 649	125 536	131 508	67 690	-42.76	-48.53
Bauxite	(t)	787 409	738 609	740 384	760 244	1 043 343	32.50	37.24
Lead	(t)	6 660	6 600	6 740	7 070	7 470	12.16	5.66
Zinc	(t)	8 840	8 840	9 180	9 350	9 160	3.62	-2.03
Bentonite	(t)	67 261	102 858	92 344	87 358	94 601	40.65	8.29
Gypsum	(t)	58 800	61 231	99 001	122 421	130 788	122.43	6.83
Kaolin	(t)	252 268	271 502	252 959	303 626	118 005	-53.22	-61.13

Magnesite	(t)	200	7 300	8 500	5 950	1 400	600.00	-76.47
Salt	(t)	869 750	966 177	1 029 302	1 063 458	1 069 210	22.93	0.54
Lignite	(t)	12 172 292	13 481 012	14 033 504	14 378 767	13 376 548	9.89	-6.97
Total	(t)	15 427 563	16 645 198	17 224 620	17 573 802	16 657 815		

## Botswana

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Cobalt	(t)	316	281	0	0	0	-100.00	.
Nickel	(t)	16 789	16 878	0	0	0	-100.00	.
Copper	(t)	22 284	13 120	1 239	1 462	0	-100.00	-100.00
Gold	(kg)	756	833	913	1 105	943	24.74	-14.66
Palladium	(kg)	156	0	0	0	0	-100.00	.
Platinum	(kg)	31	0	0	0	0	-100.00	.
Silver	(kg)	2 800	0	0	0	0	-100.00	.
Diam. (Gem)	(ct)	14 576 800	14 623 700	16 058 700	17 064 600	16 580 900	13.75	-2.83
Diam. (Ind)	(ct)	6 247 200	6 267 300	6 882 300	7 313 400	7 106 100	13.75	-2.83
Salt	(t)	404 295	399 837	369 613	367 988	383 779	-5.07	4.29
Steam Coal	(t)	2 065 778	1 870 939	2 215 782	2 482 313	2 110 891	2.18	-14.96
Total	(t)	2 509 470	2 301 060	2 586 639	2 851 768	2 494 675		

## Brazil

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	275 607 200	267 983 700	289 089 904	287 611 275	255 272 650	-7.38	-11.24
Chromium	(t)	204 321	166 259	212 503	219 724	199 256	-2.48	-9.32
Cobalt	(t)	2 771	852	185	4	0	-100.00	-100.00
Manganese	(t)	1 226 458	1 198 709	1 343 967	1 280 825	1 452 034	18.39	13.37
Nickel	(t)	89 302	78 626	68 803	65 254	55 744	-37.58	-14.57
Niobium	(t)	80 465	80 669	83 166	99 554	127 220	58.11	27.79
Tantalum	(t)	268	234	270	150	250	-6.72	66.67
Titanium	(t)	45 330	37 660	48 000	38 000	81 650	80.12	114.87
Tungsten	(t)	432	323	411	300	431	-0.23	43.67
Vanadium	(t)	4 988	6 544	6 798	6 562	7 045	41.24	7.36
Aluminium	(t)	772 200	792 700	801 700	659 000	650 200	-15.80	-1.34
Bauxite	(t)	37 057 000	39 244 200	38 072 100	32 377 000	31 937 900	-13.81	-1.36
Beryllium	(t)	100	125	75	70	70	-30.00	0.00
Cadmium	(t)	200	200	180	300	450	125.00	50.00
Copper	(t)	350 940	338 921	384 542	385 762	363 268	3.51	-5.83
Indium	(t)	5	5	5	0	0	-100.00	.
Lead	(t)	9 441	9 015	6 959	7 277	5 715	-39.47	-21.46
Lithium	(t)	308	440	533	600	2 390	675.97	298.33
Rare Earths	(t)	1 040	2 900	1 700	1 100	600	-42.31	-45.45
Tin	(t)	20 010	15 183	17 081	17 591	14 867	-25.70	-15.49
Zinc	(t)	156 926	158 197	156 348	167 249	163 394	4.12	-2.30

Abbreviations: see Explanation

Gold	(kg)	83 127	94 153	79 717	85 198	89 988	8.25	5.62
Silver	(kg)	44 142	48 793	46 400	49 600	50 000	13.27	0.81
Asbestos	(t)	232 052	177 800	129 094	101 000	50 000	-78.45	-50.50
Baryte	(t)	17 760	12 133	16 275	17 000	17 000	-4.28	0.00
Bentonite	(t)	602 846	448 004	616 929	500 000	600 000	-0.47	20.00
Diam. (Gem)	(ct)	10 503	60 560	84 115	82 810	53 240	406.90	-35.71
Diam. (Ind)	(ct)	21 323	122 955	170 780	168 130	108 085	406.89	-35.71
Diatomite	(t)	5 530	16 408	16 000	16 000	16 000	189.33	0.00
Feldspar	(t)	456 308	295 778	290 000	300 000	632 349	38.58	110.78
Fluorspar	(t)	27 351	18 260	19 000	15 000	15 000	-45.16	0.00
Graphite	(t)	81 762	61 687	95 000	96 800	81 770	0.01	-15.53
Gypsum	(t)	3 161 856	2 674 154	2 113 208	2 115 000	2 115 000	-33.11	0.00
Kaolin	(t)	1 809 000	1 737 000	1 771 000	1 550 000	1 471 610	-18.65	-5.06
Magnesite	(t)	1 621 425	1 652 424	2 303 971	1 900 000	1 700 000	4.85	-10.53
Phosphates	(t)	2 167 000	2 046 000	2 083 000	1 980 300	1 828 500	-15.62	-7.67
Potash	(t)	304 018	316 429	306 296	201 181	200 000	-34.21	-0.59
Salt	(t)	7 676 015	7 510 314	7 381 546	7 600 000	7 600 000	-0.99	0.00
Sulfur	(t)	530 000	530 000	530 000	530 000	500 000	-5.66	-5.66
Talc	(t)	481 687	494 157	500 000	660 000	650 000	34.94	-1.52
Vermiculite	(t)	54 250	53 330	50 050	50 000	47 581	-12.29	-4.84
Zircon	(t)	22 647	21 302	22 000	22 000	22 000	-2.86	0.00
Steam Coal	(t)	3 644 350	3 525 735	3 325 439	3 568 760	3 812 975	4.63	6.84
Lignite	(t)	2 709 305	3 480 217	1 488 084	1 422 500	1 596 696	-41.07	12.25
Nat. Gas (Mio m <sup>3</sup> )		24 862	25 337	28 663	26 687	27 358	10.04	2.51
Petroleum	(t)	125 806 800	130 144 400	136 052 700	134 122 000	143 933 400	14.41	7.32
Uranium	(t)	51	0	0	0	0	-100.00	.
Total	(t)	486 931 445	485 600 737	512 335 348	501 054 873	479 111 555		

## Brunei

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nat. Gas (Mio m <sup>3</sup> )		12 684	12 417	14 578	12 235	12 504	-1.42	2.20
Petroleum	(t)	6 313 770	6 021 270	5 635 870	5 553 200	6 040 240	-4.33	8.77
Total	(t)	16 460 970	15 954 870	17 298 270	15 341 200	16 043 440		

## Bulgaria

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	13 470	12 050	574	0	0	-100.00	.
Cadmium	(t)	344	362	333	313	315	-8.43	0.64
Copper	(t)	112 600	111 870	110 290	112 850	114 240	1.46	1.23
Lead	(t)	18 370	22 040	22 860	24 200	25 920	41.10	7.11
Tellurium	(t)	4	4	5	4	3	-25.00	-25.00
Zinc	(t)	16 390	18 790	19 250	20 390	21 830	33.19	7.06
Gold	(kg)	7 930	7 920	8 670	8 995	7 467	-5.84	-16.99
Silver	(kg)	45 485	59 606	59 484	47 016	40 055	-11.94	-14.81

**Abbreviations:** see Explanation



Baryte	(t)	60 000	50 000	64 000	70 000	72 000	20.00	2.86
Bentonite	(t)	61 600	37 100	54 100	45 000	45 000	-26.95	0.00
Fluorspar	(t)	131 900	4 400	0	0	0	-100.00	.
Gypsum	(t)	108 600	60 900	88 000	88 000	88 000	-18.97	0.00
Kaolin	(t)	314 900	338 600	322 800	323 000	330 000	4.80	2.17
Salt	(t)	3 100 000	3 300 000	3 400 000	3 400 000	3 400 000	9.68	0.00
Sulfur	(t)	438 500	395 500	501 000	474 100	379 400	-13.48	-19.97
Steam Coal	(t)	9 600	5 900	0	0	0	-100.00	.
Lignite	(t)	35 938 100	31 434 200	34 587 500	31 813 678	29 462 615	-18.02	-7.39
Nat. Gas	(Mio m <sup>3</sup> )	85	80	65	31	35	-58.82	12.90
Petroleum	(t)	23 700	22 600	21 930	20 600	20 000	-15.61	-2.91
Total	(t)	40 416 131	35 878 384	39 244 710	36 416 991	33 987 370		

## Burkina Faso

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Lead	(t)	1 000	0	0	0	0	-100.00	.
Zinc	(t)	68 670	80 950	91 530	99 162	106 680	55.35	7.58
Gold	(kg)	36 540	38 530	46 398	52 622	50 302	37.66	-4.41
Silver	(kg)	2 400	5 670	5 470	6 160	5 670	136.25	-7.95
Total	(t)	69 709	80 995	91 581	99 221	106 736		

## Burundi

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Niobium	(t)	13	8	18	5	5	-61.54	0.00
Tantalum	(t)	19	11	26	8	8	-57.89	0.00
Titanium	(t)				0	42 900	.	.
Tungsten	(t)	11	77	144	108	150	1 263.64	38.89
Rare Earths	(t)			31	631	68	.	-89.22
Tin	(t)	55	51	123	122	143	160.00	17.21
Gold	(kg)	549	396	953	598	573	4.37	-4.18
Total	(t)	99	147	343	875	43 275		

## Cambodia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	175 172	148 900	33 058	30 000	18 430	-89.48	-38.57
Total	(t)	175 172	148 900	33 058	30 000	18 430		

## Cameroon

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	88 273	84 689	68 598	65 900	51 700	-41.43	-21.55
Gold	kg	795	542	713	448	450	-43.40	0.45
Diam. (Ind)	(ct)	2 245	994	1 757	1 805	1 737	-22.63	-3.77
Nat. Gas	(Mio m <sup>3</sup> )	370	360	390	1 460	2 010	443.24	37.67
Petroleum	(t)	4 770 500	4 595 300	3 781 800	3 428 100	3 545 900	-25.67	3.44
Total	(t)	5 154 774	4 967 989	4 162 399	4 662 000	5 205 600		

## Canada

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	28 194 100	28 505 600	30 682 700	32 180 800	33 020 200	17.12	2.61
Cobalt	(t)	7 489	7 148	6 058	5 608	5 132	-31.47	-8.49
Molybdenum	(t)	2 505	2 783	4 765	5 048	3 940	57.29	-21.95
Nickel	(t)	234 519	235 034	214 302	185 962	180 900	-22.86	-2.72
Niobium	(t)	5 385	6 099	6 981	7 700	6 800	26.28	-11.69
Titanium	(t)	595 000	700 000	750 000	620 000	640 000	7.56	3.23
Tungsten	(t)	1 815	0	0	0	0	-100.00	.
Aluminium	(t)	2 880 037	3 208 888	3 212 124	2 924 389	2 853 771	-0.91	-2.41
Antimony	(t)	1	0	1	5	5	400.00	0.00
Bismuth	(t)	2	3	4	5	5	150.00	0.00
Cadmium	(t)	1 159	2 305	1 802	1 857	1 803	55.57	-2.91
Copper	(t)	714 647	695 508	597 194	548 011	560 800	-21.53	2.33
Indium	(t)	70	71	67	58	61	-12.86	5.17
Lead	(t)	3 809	12 653	20 477	17 874	22 608	493.54	26.49
Lithium	(t)		0	66	8 750	1 200	.	-86.29
Selenium	(t)	156	175	72	85	57	-63.46	-32.94
Tellurium	(t)	10	18	18	25	40	300.00	60.00
Zinc	(t)	289 584	321 272	346 776	304 964	323 000	11.54	5.91
Gold	(kg)	162 504	163 923	178 568	194 155	182 783	12.48	-5.86
Palladium	(kg)	22 600	21 200	19 140	20 880	19 750	-12.61	-5.41
Platinum	(kg)	10 000	9 700	6 850	7 460	7 050	-29.50	-5.50
Rhodium	(kg)	530	650	600	750	700	32.08	-6.67
Silver	(kg)	383 807	398 509	392 788	403 589	419 218	9.23	3.87
Baryte	(t)	42 000	20 000	50 000	50 000	40 000	-4.76	-20.00
Diam. (Gem)	(ct)	11 677 471	13 315 319	23 198 761	22 789 001	18 402 705	57.59	-19.25
Fluorspar	(t)			0	20 000	80 000	.	300.00
Graphite	(t)	30 000	21 000	14 000	11 000	11 000	-63.33	0.00
Gypsum	(t)	1 726 216	1 678 573	3 001 390	3 240 451	2 831 010	64.00	-12.64
Magnesite	(t)	150 000	150 000	150 000	150 000	150 000	0.00	0.00
Potash	(t)	11 461 530	10 789 662	12 562 695	14 023 931	12 643 318	10.31	-9.84
Salt	(t)	14 286 373	10 252 161	11 423 624	10 713 206	11 942 282	-16.41	11.47
Sulfur	(t)	5 745 000	5 381 000	5 327 000	5 333 000	6 938 000	20.77	30.10
Talc	(t)	175 000	199 000	215 000	279 000	243 000	38.86	-12.90

Abbreviations: see Explanation

Steam Coal	(t)	25 847 000	25 077 000	24 428 000	19 370 000	16 757 000	-35.17	-13.49
Coking Coal	(t)	27 341 000	25 016 000	28 127 000	32 221 000	33 921 000	24.07	5.28
Lignite	(t)	9 156 000	9 167 000	9 154 000	8 696 000	8 849 000	-3.35	1.76
Nat. Gas (Mio m <sup>3</sup> )		156 413	158 452	160 885	168 921	164 957	5.46	-2.35
Oil Sands*	(t)	118 594 300	120 572 400	133 202 900	145 081 000	146 849 700	23.83	1.22
Petroleum	(t)	193 895 700	194 332 300	210 714 900	229 515 400	235 042 500	21.22	2.41
Uranium	(t)	15 659	16 666	14 394	8 225	8 370	-46.55	1.76
<b>Total</b>	<b>(t)</b>	<b>447 932 749</b>	<b>442 560 117</b>	<b>469 734 014</b>	<b>495 579 786</b>	<b>499 043 036</b>		

\*Oil Sands as part of Petroleum

## Cape Verde

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
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

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	15	33	118	142	359	2 293.33	152.82
Diam. (Gem)	(ct)	34 000	9 973	47 840	10 020	18 880	-44.47	88.42
Diam. (Ind)	(ct)	8 500	2 493	11 960	2 505	4 720	-44.47	88.42
<b>Total</b>	<b>(t)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

## Chad

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Petroleum	(t)	5 976 000	5 478 000	5 663 200	5 750 600	6 316 700	5.70	9.84
<b>Total</b>	<b>(t)</b>	<b>5 976 000</b>	<b>5 478 000</b>	<b>5 663 200</b>	<b>5 750 600</b>	<b>6 316 700</b>		

## Chile

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	9 147 839	9 008 873	9 549 327	8 942 638	8 427 224	-7.88	-5.76
Molybdenum	(t)	52 579	55 647	62 746	60 705	54 759	4.15	-9.79
Copper	(t)	5 772 100	5 552 600	5 503 500	5 831 600	5 787 400	0.27	-0.76
Lead	(t)	2 979	1 110	1 562	712	7	-99.77	-99.02
Lithium	(t)	22 500	31 240	32 520	38 850	47 770	112.31	22.96

**Abbreviations:** see Explanation

Mercury	(t)	14	2	5	3	0	-100.00	-100.00
Rhenium	(kg)	22 535	22 542	20 451	26 052	24 003	6.51	-7.87
Zinc	(t)	48 071	42 870	29 008	26 810	5 620	-88.31	-79.04
Gold	(kg)	42 501	46 333	37 911	37 066	38 455	-9.52	3.75
Silver	(kg)	1 504 271	1 501 436	1 318 582	1 370 237	1 309 321	-12.96	-4.45
Bentonite	(t)	1 434	1 288	1 584	525	395	-72.45	-24.76
Boron	(t)	517 584	558 854	607 076	398 411	352 255	-31.94	-11.59
Diatomite	(t)	26 186	26 937	27 557	24 736	21 328	-18.55	-13.78
Feldspar	(t)	6 577	6 352	4 421	2 789	55	-99.16	-98.03
Gypsum	(t)	860 075	934 033	1 157 466	909 191	977 397	13.64	7.50
Kaolin	(t)	60 000	60 000	60 000	88 262	34 801	-42.00	-60.57
Perlite	(t)	3 000	5 500	4 210	5 020	4 700	56.67	-6.37
Phosphates	(t)	5 470	1 740	1 190	1 160	950	-82.63	-18.10
Potash	(t)	1 179 560	1 303 840	1 238 630	991 180	683 540	-42.05	-31.04
Salt	(t)	11 831 116	8 139 914	7 440 741	10 012 105	10 476 823	-11.45	4.64
Sulfur	(t)	1 867 100	1 870 900	1 797 800	1 734 200	1 520 400	-18.57	-12.33
Steam Coal	(t)	3 161 726	2 525 171	2 495 390	2 294 677	1 606 554	-49.19	-29.99
Nat. Gas	(Mio m <sup>3</sup> )	1 064	1 175	1 200	1 221	1 339	25.85	9.66
Petroleum	(t)	257 100	215 080	177 760	160 330	161 520	-37.18	0.74
Total	(t)	35 675 780	31 283 521	31 153 870	32 502 137	31 236 069		

## China

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	248 061 900	228 483 100	215 920 000	209 243 800	219 375 000	-11.56	4.84
Chromium	(t)	17 600	12 200	12 000	16 330	27 250	54.83	66.87
Cobalt	(t)	10 093	9 293	8 300	3 100	3 000	-70.28	-3.23
Manganese	(t)	2 484 000	2 150 000	2 508 000	1 180 000	1 350 000	-45.65	14.41
Molybdenum	(t)	135 150	112 590	117 090	98 420	104 440	-22.72	6.12
Nickel	(t)	101 400	100 200	102 348	98 963	104 674	3.23	5.77
Niobium	(t)	30	30	30	20	20	-33.33	0.00
Tantalum	(t)	110	120	110	100	135	22.73	35.00
Titanium	(t)	1 067 200	1 196 000	1 242 000	1 932 000	2 306 900	116.16	19.40
Tungsten	(t)	72 200	72 000	71 800	68 000	72 200	0.00	6.18
Vanadium	(t)	42 000	45 000	48 500	53 200	56 000	33.33	5.26
Aluminium	(t)	31 518 000	31 775 400	33 289 600	36 831 000	35 043 600	11.19	-4.85
Antimony	(t)	111 400	103 620	97 683	70 396	60 229	-45.93	-14.44
Arsenic	(t)	25 000	25 000	25 000	24 000	24 000	-4.00	0.00
Bauxite	(t)	60 787 600	66 157 700	68 390 000	79 000 000	75 000 000	23.38	-5.06
Beryllium	(t)	1 200	1 250	1 250	1 250	1 750	45.83	40.00
Bismuth	(t)	7 250	7 100	6 800	7 000	7 000	-3.45	0.00
Cadmium	(t)	8 162	8 222	8 411	8 450	8 450	3.53	0.00
Copper	(t)	1 706 400	1 851 000	1 706 400	1 618 480	1 683 450	-1.34	4.01
Gallium	(t)	254	171	290	305	356	40.16	16.72
Germanium	(t)	114	110	87	95	85	-25.44	-10.53
Indium	(t)	387	357	355	395	490	26.61	24.05
Lead	(t)	2 339 000	2 227 500	2 080 000	2 033 000	2 097 000	-10.35	3.15
Lithium	(t)	4 350	6 000	14 700	15 300	16 600	281.61	8.50
Mercury	(t)	2 800	3 433	1 949	2 303	2 232	-20.29	-3.08
Rare Earths	(t)	105 000	105 000	105 000	120 000	132 000	25.71	10.00
Rhenium	(kg)	2 400	2 400	2 500	2 500	2 500	4.17	0.00
Selenium	(t)	729	772	720	930	1 250	71.47	34.41

**Abbreviations:** see Explanation

Tellurium	(t)	277	279	470	480	380	37.18	-20.83
Tin	(t)	110 200	91 610	74 800	87 070	85 840	-22.11	-1.41
Zinc	(t)	4 748 000	4 635 000	4 300 000	4 160 000	4 353 000	-8.32	4.64
Gold	(kg)	450 053	453 500	426 142	401 119	380 230	-15.51	-5.21
Palladium	(kg)	1 200	1 300	1 400	1 300	1 300	8.33	0.00
Platinum	(kg)	2 300	3 000	2 500	2 500	2 500	8.70	0.00
Silver	(kg)	3 685 800	3 754 200	3 601 800	3 421 400	3 443 200	-6.58	0.64
Asbestos	(t)	250 000	203 000	125 000	170 000	125 000	-50.00	-26.47
Baryte	(t)	2 984 000	2 771 100	3 100 000	2 900 000	2 900 000	-2.82	0.00
Bentonite	(t)	3 650 000	5 600 000	5 600 000	5 600 000	5 600 000	53.42	0.00
Boron	(t)	90 000	80 000	70 000	80 000	250 000	177.78	212.50
Diam. (Gem)	(ct)	0	127	230	99	51	.	-48.48
Diatomite	(t)	420 000	400 000	400 000	280 000	400 000	-4.76	42.86
Feldspar	(t)	2 350 000	2 400 000	2 500 000	2 500 000	2 450 000	4.26	-2.00
Fluorspar	(t)	4 400 000	3 800 000	3 800 000	3 500 000	4 000 000	-9.09	14.29
Graphite	(t)	780 000	780 000	625 000	630 000	700 000	-10.26	11.11
Gypsum	(t)	20 000 000	25 400 000	25 000 000	25 000 000	25 000 000	25.00	0.00
Kaolin	(t)	7 030 000	7 240 000	6 910 000	6 650 000	6 400 000	-8.96	-3.76
Magnesite	(t)	17 440 000	16 840 000	18 500 000	19 000 000	19 000 000	8.94	0.00
Phosphates	(t)	42 611 700	43 319 400	36 939 600	28 897 800	27 997 200	-34.30	-3.12
Potash	(t)	5 714 000	5 783 000	5 534 000	5 452 000	5 902 000	3.29	8.25
Salt	(t)	66 655 400	66 201 000	66 541 700	63 636 100	62 708 000	-5.92	-1.46
Sulfur	(t)	13 801 100	13 908 100	13 488 700	13 762 700	14 450 000	4.70	4.99
Talc	(t)	2 200 000	2 000 000	1 800 000	2 000 000	2 450 000	11.36	22.50
Vermiculite	(t)	50 000	50 000	50 000	50 000	50 000	0.00	0.00
Zircon	(t)	140 000	100 000	116 000	150 000	140 000	0.00	-6.67
Steam Coal	(t)	2 812 582 000	2 510 708 000	2 678 559 400	2 852 665 761	2 967 272 082	5.50	4.02
Coking Coal	(t)	593 047 000	547 017 000	515 107 300	483 696 660	502 544 830	-15.26	3.90
Nat. Gas (Mio m <sup>3</sup> )		134 610	136 865	148 035	160 159	176 174	30.88	10.00
Petroleum	(t)	214 555 800	199 685 200	191 506 100	189 324 200	191 014 100	-10.97	0.89
Uranium	(t)	1 906	1 906	2 223	2 223	2 223	16.63	0.00
Total	(t)	4 271 912 853	3 902 963 977	4 024 840 751	4 170 752 860	4 324 215 796		

## Christmas Island

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Phosphates	(t)	177 100	148 120	147 890	111 780	89 010	-49.74	-20.37
Total	(t)	177 100	148 120	147 890	111 780	89 010		

## Colombia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	406 040	322 100	320 770	257 790	299 350	-26.28	16.12
Nickel	(t)	36 671	37 092	40 606	43 056	40 571	10.64	-5.77
Tungsten	(t)	3	2	0	0	0	-100.00	.
Bauxite	(t)	861	693	2 400	9 043	13 533	1 471.78	49.65
Copper	(t)	5 463	8 493	9 356	9 918	7 641	39.87	-22.96

**Abbreviations:** see Explanation

Gold	(kg)	59 638	63 157	43 128	35 560	36 676	-38.50	3.14
Platinum	(kg)	861	917	567	269	163	-81.07	-39.41
Silver	(kg)	11 602	11 866	12 074	15 967	11 666	0.55	-26.94
Baryte	(t)	4 003	3 068	1 791	2 586	2 270	-43.29	-12.22
Feldspar	(t)	159 740	151 759	150 334	141 794	161 518	1.11	13.91
Fluorspar	(t)	47	75	57	46	0	-100.00	-100.00
Graphite	(t)				0	90	.	.
Gypsum	(t)	448 543	471 306	405 802	393 496	293 143	-34.65	-25.50
Magnesite	(t)	2 883	1 175	1 883	1 039	1 847	-35.93	77.77
Phosphates	(t)	23 900	21 030	13 850	12 260	19 570	-18.12	59.62
Salt	(t)	417 438	564 194	501 499	391 222	347 183	-16.83	-11.26
Sulfur	(t)	76 239	76 331	81 172	155 641	100 203	31.43	-35.62
Talc	(t)	55	103	59	0	1 680	2 954.55	.
Steam Coal	(t)	80 716 510	86 622 000	84 795 450	78 384 020	75 042 100	-7.03	-4.26
Coking Coal	(t)	4 823 870	4 438 000	6 078 000	5 899 870	5 302 760	9.93	-10.12
Nat. Gas (Mio m <sup>3</sup> )		11 860	11 080	10 915	11 590	11 800	-0.51	1.81
Petroleum	(t)	50 058 800	44 226 200	42 519 290	43 088 900	44 101 940	-11.90	2.35
Total	(t)	146 669 139	145 807 697	143 654 375	138 062 733	135 175 448		

## Congo, D.R.

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Cobalt	(t)	84 400	69 038	82 461	111 713	78 664	-6.80	-29.58
Manganese	(t)			0	5 360	1 780	.	-66.79
Niobium	(t)	694	797	717	607	415	-40.20	-31.63
Tantalum	(t)	736	845	761	644	440	-40.22	-31.68
Tungsten	(t)	55	79	130	160	210	281.82	31.25
Copper	(t)	1 039 007	1 023 687	1 094 638	1 239 059	1 461 124	40.63	17.92
Lead	(t)	653	101	0	0	0	-100.00	.
Tin	(t)	4 567	6 503	10 391	8 950	10 990	140.64	22.79
Zinc	(t)	12 675	12 587	12 337	1 047	1 607	-87.32	53.49
Gold	(kg)	31 878	30 664	31 586	36 777	33 752	5.88	-8.23
Silver	(kg)	2 412	835	3 376	3 400	3 400	40.96	0.00
Diam. (Gem)	(ct)	3 150 700	3 111 890	2 268 332	1 815 745	2 020 450	-35.87	11.27
Diam. (Ind)	(ct)	12 602 790	12 447 557	16 634 432	13 315 465	11 449 240	-9.15	-14.02
Petroleum	(t)	1 124 940	1 068 970	1 027 850	1 144 760	1 113 260	-1.04	-2.75
Total	(t)	2 267 765	2 182 642	2 229 323	2 512 343	2 668 529		

## Congo, Rep.

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)			0	10 800	20 200	.	87.04
Copper	(t)		0	15 979	18 018	18 760	.	4.12
Zinc	(t)	0	520	4 270	460	4 830	.	950.00
Gold	(kg)	150	100	100	150	150	0.00	0.00
Diam. (Ind)	(ct)	40 057	12 110	46 758	46 768	2 963	-92.60	-93.66
Nat. Gas	(Mio m <sup>3</sup> )	928	866	860	867	580	-37.50	-33.10
Petroleum	(t)	12 139 600	12 838 700	13 252 670	16 740 500	17 430 000	43.58	4.12
Total	(t)	12 882 000	13 532 020	13 960 919	17 463 378	17 937 790		

## Costa Rica

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	950	750	4 255	3 699	4 500	373.68	21.65
Diatomite	(t)	20 537	20 500	4 218	3 972	4 000	-80.52	0.70
Total	(t)	20 538	20 501	4 222	3 976	4 005		

## Cote d'Ivoire

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	105 300	90 900	204 700	319 200	472 700	348.91	48.09
Nickel	(t)		0	400	12 300	9 100	.	-26.02
Gold	(kg)	23 460	25 055	25 396	24 488	32 568	38.82	33.00
Silver	(kg)	576	549	493	510	500	-13.19	-1.96
Diam. (Gem)	(ct)	11 940	16 188	8 925	4 540	3 989	-66.59	-12.14
Diam. (Ind)	(ct)	2 985	4 047	2 231	1 140	0	-100.00	-100.00
Nat. Gas	(Mio m <sup>3</sup> )	2 177	2 395	2 130	1 935	2 066	-5.10	6.77
Petroleum	(t)	1 464 300	2 104 100	1 696 900	1 607 400	1 799 700	22.91	11.96
Total	(t)	3 311 224	4 111 026	3 606 025	3 486 925	3 934 334		

**Abbreviations:** see Explanation

## Croatia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	11 897	9 780	12 215	11 776	14 342	20.55	21.79
Gypsum	(t)	126 470	150 430	147 934	211 894	199 255	57.55	-5.96
Salt	(t)	20 670	15 629	19 006	16 453	93 870	354.14	470.53
Nat. Gas	(Mio m <sup>3</sup> )	1 781	1 647	1 484	1 230	1 029	-42.22	-16.34
Petroleum	(t)	657 550	737 100	744 500	732 100	705 700	7.32	-3.61
Total	(t)	2 241 387	2 230 539	2 110 855	1 956 223	1 836 367		

## Cuba

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	13 500	12 000	14 400	10 500	10 000	-25.93	-4.76
Cobalt	(t)	4 793	5 514	5 407	5 300	5 200	8.49	-1.89
Nickel	(t)	50 000	48 000	49 300	49 000	48 900	-2.20	-0.20
Lead	(t)		0	1 500	25 380	36 000	.	41.84
Zinc	(t)		0	2 900	42 250	57 830	.	36.88
Bentonite	(t)	500	389	589	630	504	0.80	-20.00
Feldspar	(t)	3 300	5 790	8 715	3 000	2 100	-36.36	-30.00
Gypsum	(t)	90 900	73 900	85 400	99 900	66 300	-27.06	-33.63
Kaolin	(t)	1 500	2 500	1 500	2 700	2 100	40.00	-22.22
Salt	(t)	284 900	248 000	246 300	192 700	210 400	-26.15	9.19
Nat. Gas	(Mio m <sup>3</sup> )	1 245	1 185	1 051	970	951	-23.61	-1.96
Petroleum	(t)	2 822 000	2 619 200	2 522 200	2 462 500	2 400 000	-14.95	-2.54
Total	(t)	4 267 393	3 963 293	3 779 011	3 669 860	3 600 134		

## Cyprus

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Copper	(t)	2 121	1 754	1 293	908	703	-66.86	-22.58
Gold	(kg)		0	48	47	33	.	-29.79
Silver	(kg)		0	99	180	97	.	-46.11
Bentonite	(t)	127 036	117 184	95 593	98 800	83 113	-34.58	-15.88
Gypsum	(t)	471 885	682 024	647 108	625 721	623 545	32.14	-0.35
Total	(t)	601 042	800 962	743 994	725 429	707 361		



## Czech Republic

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bentonite	(t)	369 000	374 000	254 000	277 000	357 000	-3.25	28.88
Diatomite	(t)	15 000	26 000	34 000	31 000	43 000	186.67	38.71
Feldspar	(t)	433 000	454 000	368 000	449 000	460 000	6.24	2.45
Gypsum	(t)	11 000	10 000	7 000	8 000	10 000	-9.09	25.00
Kaolin	(t)	3 454 000	3 540 000	3 669 000	3 622 000	3 446 000	-0.23	-4.86
Steam Coal	(t)	3 884 180	3 095 300	2 337 100	1 993 850	1 335 497	-65.62	-33.02
Coking Coal	(t)	3 755 820	2 978 700	2 532 900	2 626 361	2 309 833	-38.50	-12.05
Lignite	(t)	38 251 000	38 646 000	39 310 000	39 187 000	37 465 000	-2.05	-4.39
Nat. Gas (Mio m <sup>3</sup> )		200	169	171	179	146	-27.00	-18.44
Petroleum	(t)	126 000	116 000	106 000	109 000	81 000	-35.71	-25.69
Uranium	(t)	158	151	66	40	39	-75.32	-2.50
<b>Total</b>	<b>(t)</b>	<b>50 459 158</b>	<b>49 375 351</b>	<b>48 754 866</b>	<b>48 446 451</b>	<b>45 624 169</b>		

## Denmark

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bentonite	(t)	54 272	66 278	69 594	56 173	48 197	-11.19	-14.20
Diatomite	(t)	127 500	114 400	110 000	99 400	108 800	-14.67	9.46
Salt	(t)	600 000	600 000	600 000	600 000	600 000	0.00	0.00
Sulfur	(t)	93 024	6 144	4 004	4 194	3 554	-96.18	-15.26
Nat. Gas (Mio m <sup>3</sup> )		4 603	4 535	4 820	4 148	3 138	-31.83	-24.35
Petroleum	(t)	7 689 812	6 924 374	6 736 967	5 665 787	5 017 234	-34.75	-11.45
<b>Total</b>	<b>(t)</b>	<b>12 247 008</b>	<b>11 339 196</b>	<b>11 376 565</b>	<b>9 743 954</b>	<b>8 288 185</b>		

## Dominican Republic

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nickel	(t)	0	9 913	15 632	19 214	28 450	.	48.07
Bauxite	(t)	1 724 162	7 318	0	0	0	-100.00	.
Copper	(t)	7 324	9 725	9 618	8 588	6 047	-17.44	-29.59
Zinc	(t)	4 655	3 636	3 920	4 038	5 527	18.73	36.87
Gold	(kg)	31 134	37 933	35 221	31 640	31 873	2.37	0.74
Silver	(kg)	95 706	121 749	151 828	166 510	108 696	13.57	-34.72
Feldspar	(t)	7 800	5 200	5 000	1 200	1 000	-87.18	-16.67
Gypsum	(t)	470 780	284 170	217 570	190 660	315 430	-33.00	65.44
Salt	(t)	25 890	0	0	23 860	24 000	-7.30	0.59
<b>Total</b>	<b>(t)</b>	<b>2 240 738</b>	<b>320 122</b>	<b>251 927</b>	<b>247 759</b>	<b>380 595</b>		

Abbreviations: see Explanation

## Ecuador

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Antimony	(t)	40	15	260	0	0	-100.00	.
Copper	(t)	1 400	40 200	8 200	42 200	9 900	607.14	-76.54
Gold	(kg)	7 723	6 761	6 368	8 213	6 293	-18.52	-23.38
Silver	(kg)	2 521	934	68	192	2 892	14.72	1 406.25
Baryte	(t)			0	2 868	2 000	.	-30.26
Feldspar	(t)	253 253	148 506	92 871	43 197	45 000	-82.23	4.17
Kaolin	(t)	64 486	4 110	548	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	497	528	463	349	303	-39.03	-13.18
Petroleum	(t)	27 038 000	27 377 000	26 452 000	25 754 000	26 442 000	-2.20	2.67
Total	(t)	27 754 790	27 992 239	26 924 285	26 121 473	26 741 309		

## Egypt

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	186 300	229 010	254 300	270 000	270 000	44.93	0.00
Manganese	(t)	5 000	0	0	0	0	-100.00	.
Aluminium	(t)	290 000	297 000	298 000	267 100	290 000	0.00	8.57
Gold	(kg)	13 657	17 139	16 941	14 694	14 946	9.44	1.71
Baryte	(t)	3 800	4 000	4 000	4 000	4 000	5.26	0.00
Bentonite	(t)	4 500	3 600	2 000	3 500	3 500	-22.22	0.00
Feldspar	(t)	230 000	230 000	230 000	230 000	230 000	0.00	0.00
Fluorspar	(t)	1 105	1 000	1 000	1 000	1 000	-9.50	0.00
Gypsum	(t)	744 160	686 610	835 614	800 000	800 000	7.50	0.00
Kaolin	(t)	232 351	230 000	230 000	230 000	230 000	-1.01	0.00
Phosphates	(t)	993 830	741 240	1 021 960	1 000 000	1 000 000	0.62	0.00
Salt	(t)	1 669 000	1 402 000	807 000	1 000 000	1 000 000	-40.08	0.00
Sulfur	(t)	60 000	60 000	80 000	80 000	80 000	33.33	0.00
Talc	(t)	30 000	14 300	15 000	15 000	15 000	-50.00	0.00
Vermiculite	(t)	8 190	0	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	42 590	40 250	48 810	58 560	64 940	52.48	10.89
Petroleum	(t)	35 431 000	33 835 000	32 178 000	34 192 750	33 550 490	-5.31	-1.88
Total	(t)	73 961 250	69 933 777	75 004 891	84 941 365	89 426 005		

## El Salvador

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	50 000	30 000	30 000	30 000	30 000	-40.00	0.00
Total	(t)	50 000	30 000	30 000	30 000	30 000		

## Equatorial Guinea

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nat. Gas (Mio m <sup>3</sup> )		6 200	7 875	8 240	7 750	6 235	0.56	-19.55
Petroleum (t)		12 056 260	10 161 060	8 686 440	8 666 720	7 172 620	-40.51	-17.24
Total (t)		17 016 260	16 461 060	15 278 440	14 866 720	12 160 620		

## Eritrea

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Copper (t)		61 600	25 300	7 900	17 300	16 008	-74.01	-7.47
Zinc (t)		0	40 900	95 400	125 000	121 260	.	-2.99
Gold (kg)		753	333	1 000	429	400	-46.88	-6.76
Silver (kg)		38 910	13 219	1 192	31 000	44 836	15.23	44.63
Gypsum (t)		13 000	13 000	12 000	12 000	12 000	-7.69	0.00
Kaolin (t)		200	200	200	200	0	-100.00	-100.00
Salt (t)		300 000	310 000	310 000	310 000	310 000	3.33	0.00
Total (t)		374 840	389 413	425 502	464 531	459 313		

## Estonia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Oil Shales (t)		19 616 000	15 764 000	21 625 000	21 883 000	15 697 400	-19.98	-28.27
Total (t)		19 616 000	15 764 000	21 625 000	21 883 000	15 697 400		

## Eswatini

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold (kg)					0	6	.	.
Steam Coal (t)		141 733	158 418	202 277	144 375	109 926	-22.44	-23.86
Total (t)		141 733	158 418	202 277	144 375	109 926		

## Ethiopia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium (t)				0	8 000	500	.	-93.75
Niobium (t)		20	28	25	28	14	-30.00	-50.00
Tantalum (t)		75	101	90	104	50	-33.33	-51.92

**Abbreviations:** see Explanation

Gold	(kg)	9 370	8 573	5 390	3 495	2 800	-70.12	-19.89
Silver	(kg)	990	880	750	1 000	800	-19.19	-20.00
Diatomite	(t)	4 000	4 000	4 000	5 000	5 000	25.00	0.00
Gypsum	(t)	116 000	80 556	85 236	253 165	255 000	119.83	0.72
Kaolin	(t)	4 600	4 600	5 000	10 000	10 000	117.39	0.00
Salt	(t)	320 000	54 534	60 654	122 850	125 000	-60.94	1.75
Total	(t)	444 705	143 829	155 011	399 151	395 568		

## Fiji

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	172 336	58 050	118 540	57 960	0	-100.00	-100.00
Gold	(kg)	1 290	1 500	1 425	1 281	1 106	-14.26	-13.66
Silver	(kg)	354	354	350	413	692	95.48	67.55
Total		172 337	58 051	118 541	57 961	2		

## Finland

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	457 100	469 140	411 060	466 750	502 050	9.83	7.56
Cobalt	(t)	2 119	2 260	2 300	1 377	1 454	-31.38	5.59
Nickel	(t)	9 383	20 654	34 641	43 572	38 530	310.64	-11.57
Copper	(t)	41 805	47 488	53 144	46 755	32 861	-21.39	-29.72
Germanium	(t)	13	0	0	0	0	-100.00	.
Lead	(t)				0	937	.	.
Selenium	(t)	93	104	100	109	115	23.66	5.50
Zinc	(t)	25 332	45 852	66 284	85 067	69 800	175.54	-17.95
Gold	(kg)	8 342	8 865	9 102	8 732	7 927	-4.97	-9.22
Palladium	(kg)	784	901	1 021	1 157	699	-10.84	-39.59
Platinum	(kg)	992	1 178	1 418	1 576	953	-3.93	-39.53
Silver	(kg)	13 051	16 348	13 654	12 849	40 461	210.02	214.90
Feldspar	(t)	38 026	18 549	14 926	17 469	17 997	-52.67	3.02
Magnesite	(t)	22 390	54 227	63 850	49 601	37 002	65.26	-25.40
Phosphates	(t)	344 360	338 230	352 300	356 070	363 020	5.42	1.95
Sulfur	(t)	847 000	852 700	937 000	888 300	811 600	-4.18	-8.63
Talc	(t)	332 174	345 739	354 819	374 398	329 891	-0.69	-11.89
Total	(t)	2 119 818	2 194 970	2 290 449	2 329 493	2 205 307		

## France

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	415 000	424 640	426 730	390 000	401 850	-3.17	3.04
Bauxite	(t)	70 000	70 000	70 000	70 000	70 000	0.00	0.00
Indium	(t)	41	0	30	43	19	-53.66	-55.81
Bentonite	(t)	36 403	42 567	24 497	35 696	82 720	127.23	131.73
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	500 000	-9.09	-9.09
Gypsum	(t)	2 027 360	4 182 614	3 014 296	5 314 983	3 259 935	60.80	-38.67
Kaolin	(t)	275 150	263 993	279 120	301 842	392 389	42.61	30.00
Salt	(t)	6 754 200	4 266 248	4 739 491	4 689 054	5 877 000	-12.99	25.33
Sulfur	(t)	380 000	380 000	500 000	500 000	500 000	31.58	0.00
Talc	(t)	450 000	450 000	470 000	450 000	400 000	-11.11	-11.11
Nat. Gas	(Mio m <sup>3</sup> )	30	40	51	70	122	306.67	74.29
Oil Shales	(t)	2 000	2 000	2 000	2 000	2 000	0.00	0.00
Petroleum	(t)	835 000	816 000	758 000	776 000	720 000	-13.77	-7.22
Uranium	(t)	2	0	0	0	0	-100.00	.
Total	(t)	11 909 156	11 570 062	10 964 964	13 225 618	12 393 513		

## French Guiana

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	1 374	1 321	1 486	1 320	1 105	-19.58	-16.29
Total	(t)	1	1	1	1	1		

## Gabon

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	1 876 300	1 573 100	2 265 800	2 874 600	3 158 100	68.32	9.86
Gold	(kg)	1 472	1 020	620	83	107	-92.73	28.92
Nat. Gas	(Mio m <sup>3</sup> )	466	530	491	511	464	-0.43	-9.20
Petroleum	(t)	11 920 000	11 480 000	10 503 000	9 646 000	10 848 000	-8.99	12.46
Total	(t)	14 169 101	13 477 101	13 161 601	12 929 400	14 377 300		

## Georgia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	66 000	48 400	90 000	95 000	95 000	43.94	0.00
Copper	(t)	11 700	12 200	14 700	15 650	5 500	-52.99	-64.86

**Abbreviations:** see Explanation

Gold	(kg)	3 073	3 621	3 032	2 913	2 620	-14.74	-10.06
Steam Coal	(t)	305 900	296 500	268 100	137 900	15 300	-95.00	-88.91
Nat. Gas	(Mio m <sup>3</sup> )	11	7	9	10	10	-9.09	0.00
Petroleum	(t)	40 200	38 600	32 000	30 200	35 100	-12.69	16.23
Total	(t)	432 603	401 304	412 003	286 753	158 903		

## Germany

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	71 900	74 500	82 900	82 900	94 100	30.88	13.51
Aluminium	(t)	541 400	546 800	550 000	528 900	507 934	-6.18	-3.96
Cadmium	(t)	370	652	730	520	620	67.57	19.23
Copper	(t)	42	41	63	51	40	-4.76	-21.57
Gallium	(t)	11	4	0	0	0	-100.00	.
Indium	(t)	10	10	10	0	0	-100.00	.
Selenium	(t)	660	700	300	300	300	-54.55	0.00
Gold	(kg)	13	17	7	9	15	15.38	66.67
Silver	(kg)	4 000	4 000	6 000	5 000	4 000	0.00	-20.00
Baryte	(t)	68 297	49 373	34 177	37 897	30 474	-55.38	-19.59
Bentonite	(t)	392 831	393 000	416 000	379 000	366 000	-6.83	-3.43
Feldspar	(t)	253 411	284 569	276 747	252 693	235 289	-7.15	-6.89
Fluorspar	(t)	57 741	52 552	45 375	49 197	79 959	38.48	62.53
Graphite	(t)	398	502	422	222	207	-47.99	-6.76
Gypsum	(t)	4 200 000	3 970 000	4 450 000	4 550 000	4 850 000	15.48	6.59
Kaolin	(t)	3 733 714	4 740 000	5 168 000	4 930 000	4 760 000	27.49	-3.45
Potash	(t)	3 109 903	2 750 841	2 963 561	2 754 085	2 615 284	-15.90	-5.04
Salt	(t)	14 839 321	14 441 510	15 535 669	16 229 929	16 627 893	12.05	2.45
Sulfur	(t)	627 797	577 684	537 882	419 597	460 012	-26.73	9.63
Steam Coal	(t)	2 626 000	1 806 300	1 483 200	1 212 700	0	-100.00	-100.00
Coking Coal	(t)	3 596 800	2 042 700	2 185 300	1 370 800	0	-100.00	-100.00
Lignite	(t)	178 065 000	171 552 350	171 285 700	166 258 000	131 314 000	-26.26	-21.02
Nat. Gas	(Mio m <sup>3</sup> )	9 388	8 673	7 932	6 888	6 699	-28.64	-2.74
Oil Shales	(t)	468 470	492 777	481 803	494 650	487 012	3.96	-1.54
Petroleum	(t)	2 412 643	2 355 028	2 218 406	2 066 643	1 923 232	-20.29	-6.94
Uranium	(t)	0	53	40	0	28	.	.
Total	(t)	222 577 123	213 070 350	214 061 891	207 128 489	169 711 588		

## Ghana

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	451 020	706 390	1 051 250	1 593 110	1 884 050	317.73	18.26
Aluminium	(t)	33 800	33 010	40 500	42 867	45 150	33.58	5.33
Bauxite	(t)	1 014 605	1 143 676	1 476 966	1 011 302	1 116 334	10.03	10.39
Gold	(kg)	96 926	128 026	143 438	149 057	142 381	46.90	-4.48
Silver	(kg)	4 000	3 100	4 000	4 000	4 000	0.00	0.00

**Abbreviations:** see Explanation

Diam. (Gem)	(ct)	139 350	114 400	69 540	46 025	27 030	-80.60	-41.27
Diam. (Ind)	(ct)	34 838	28 605	17 385	11 505	6 760	-80.60	-41.24
Salt	(t)	250 000	250 000	250 000	330 000	300 000	20.00	-9.09
Nat. Gas	(Mio m <sup>3</sup> )	733	660	940	910	1 610	119.65	76.92
Petroleum	(t)	5 351 200	4 614 000	8 379 700	8 876 500	10 301 400	92.51	16.05
Total	(t)	7 687 126	7 275 207	11 950 563	12 581 932	14 935 080		

## Greece

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)			0	16 650	12 080	.	-27.45
Nickel	(t)	21 060	22 030	21 090	19 980	17 240	-18.14	-13.71
Aluminium	(t)	179 420	181 680	181 700	187 465	186 903	4.17	-0.30
Bauxite	(t)	1 831 660	1 847 700	1 927 150	1 559 359	1 379 123	-24.71	-11.56
Lead	(t)	10 074	11 283	12 075	15 345	14 818	47.09	-3.43
Zinc	(t)	13 174	18 866	18 715	21 515	22 322	69.44	3.75
Gold	(kg)	1 600	940	823	2 839	2 333	45.81	-17.82
Silver	(kg)	28 050	29 342	34 220	39 150	37 790	34.72	-3.47
Bentonite	(t)	1 123 320	883 220	1 087 800	1 365 374	1 393 958	24.09	2.09
Gypsum	(t)	649 280	777 990	547 140	827 298	589 012	-9.28	-28.80
Magnesite	(t)	383 230	397 940	442 680	425 882	358 841	-6.36	-15.74
Perlite	(t)	890 670	921 410	932 950	790 412	718 077	-19.38	-9.15
Salt	(t)	121 537	158 020	166 527	163 474	167 170	37.55	2.26
Sulfur	(t)	155 000	185 000	210 000	280 000	260 000	67.74	-7.14
Lignite	(t)	46 308 120	32 674 790	37 802 600	36 574 360	27 383 575	-40.87	-25.13
Nat. Gas	(Mio m <sup>3</sup> )	4	9	8	12	9	125.00	-25.00
Petroleum	(t)	72 649	173 486	139 551	201 786	164 905	126.99	-18.28
Total	(t)	51 762 424	38 260 645	43 496 413	42 458 542	32 675 264		

## Guatemala

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	7 310	8 210	2 670	2 590	30	-99.59	-98.84
Nickel	(t)	38 500	36 900	54 500	48 400	55 000	42.86	13.64
Antimony	(t)	0	25	0	0	150	.	.
Lead	(t)	10 153	10 000	4 200	264	377	-96.29	42.80
Zinc	(t)	14 810	15 000	6 100	0	0	-100.00	.
Gold	(kg)	5 641	3 907	1 646	0	0	-100.00	.
Silver	(kg)	862 814	837 793	336 944	0	0	-100.00	.
Baryte	(t)	544	500	43	63	50	-90.81	-20.63
Bentonite	(t)	718	18 081	20 542	16 953	12 700	1 668.80	-25.09
Feldspar	(t)	10 340	30 428	29 145	30 257	28 771	178.25	-4.91
Gypsum	(t)	111 351	130 617	135 154	132 897	140 901	26.54	6.02

**Abbreviations:** see Explanation

Kaolin	(t)	1 101	793	657	724	700	-36.42	-3.31
Magnesite	(t)	25 000	23 954	16 298	4 745	4 500	-82.00	-5.16
Talc	(t)	3 779	2 733	1 982	2 187	10	-99.74	-99.54
Petroleum	(t)	499 800	448 100	480 000	458 800	478 200	-4.32	4.23
Total	(t)	724 275	726 183	751 630	697 880	721 389		

## Guinea

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	20 692 000	32 423 932	51 701 564	59 573 707	70 173 326	239.13	17.79
Gold	(kg)	21 460	29 192	46 847	25 823	27 708	29.11	7.30
Diam. (Gem)	(ct)	125 161	84 597	136 090	219 530	171 880	37.33	-21.71
Diam. (Ind)	(ct)	41 720	28 200	45 360	73 180	57 300	37.34	-21.70
Total	(t)	20 692 021	32 423 961	51 701 611	59 573 733	70 173 354		

## Guyana

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	1 526 467	1 479 090	1 459 223	1 926 053	1 919 747	25.76	-0.33
Gold	(kg)	14 029	22 168	20 334	19 069	19 963	42.30	4.69
Diam. (Gem)	(ct)	88 838	104 920	39 120	46 580	41 240	-53.58	-11.46
Diam. (Ind)	(ct)	29 613	34 970	13 040	15 530	13 750	-53.57	-11.46
Total	(t)	1 526 481	1 479 112	1 459 243	1 926 072	1 919 767		

## Honduras

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Antimony	(t)	14	0	0	20	15	7.14	-25.00
Lead	(t)	9 800	4 000	6 761	9 893	12 308	25.59	24.41
Zinc	(t)	23 000	14 500	20 437	28 422	29 454	28.06	3.63
Gold	(kg)	2 598	2 607	2 656	2 070	3 035	16.82	46.62
Silver	(kg)	34 369	17 803	21 785	31 182	45 174	31.44	44.87
Gypsum	(t)	35 352	42 000	35 000	35 000	34 964	-1.10	-0.10
Salt	(t)	45 400	59 000	59 000	63 500	49 900	9.91	-21.42
Total	(t)	113 603	119 521	121 223	136 868	126 689		



## Hungary

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	15 330	4 840	0	0	0	-100.00	.
Bauxite	(t)	8 300	16 710	1 300	4 200	0	-100.00	-100.00
Bentonite	(t)	14 170	16 000	24 630	25 000	41 500	192.87	66.00
Perlite	(t)	31 275	31 000	34 628	35 000	37 877	21.11	8.22
Lignite	(t)	9 263 180	9 232 810	7 974 130	7 898 689	6 846 837	-26.09	-13.32
Nat. Gas (Mio m <sup>3</sup> )		1 887	1 823	1 605	1 710	1 382	-26.76	-19.18
Petroleum	(t)	633 072	732 702	705 274	808 000	930 000	46.90	15.10
<b>Total</b>	<b>(t)</b>	<b>11 474 927</b>	<b>11 492 462</b>	<b>10 023 962</b>	<b>10 138 889</b>	<b>8 961 814</b>		

## Iceland

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	724 705	700 080	759 988	731 478	682 616	-5.81	-6.68
Salt	(t)	5 000	5 000	5 000	5 000	5 000	0.00	0.00
<b>Total</b>	<b>(t)</b>	<b>729 705</b>	<b>705 080</b>	<b>764 988</b>	<b>736 478</b>	<b>687 616</b>		

## India

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	98 687 200	121 395 000	125 716 600	129 599 200	152 600 000	54.63	17.75
Chromium	(t)	1 335 560	1 728 270	1 609 010	1 864 070	1 819 200	36.21	-2.41
Manganese	(t)	728 970	801 600	860 400	920 230	970 000	33.06	5.41
Titanium	(t)	360 300	341 400	167 800	156 800	159 900	-55.62	1.98
Vanadium	(t)	1 124	1 125	0	442	450	-59.96	1.81
Aluminium	(t)	2 354 949	2 896 629	3 400 618	3 696 181	3 635 089	54.36	-1.65
Bauxite	(t)	28 123 789	24 745 487	22 786 106	23 689 619	21 823 793	-22.40	-7.88
Cadmium	(t)	0	35	47	0	0	.	.
Copper	(t)	34 220	29 670	31 550	31 180	29 550	-13.65	-5.23
Lead	(t)	143 710	150 860	172 720	207 070	202 960	41.23	-1.98
Rare Earths	(t)	956	2 265	2 724	4 215	4 200	339.33	-0.36
Selenium	(t)	17	17	17	17	17	0.00	0.00
Tin	(t)	10	9	13	16	12	20.00	-25.00
Zinc	(t)	740 740	755 780	772 600	728 400	723 410	-2.34	-0.69
Gold	(kg)	1 323	1 594	1 651	1 664	1 724	30.31	3.61
Silver	(kg)	426 443	460 811	557 691	679 386	441 818	3.61	-34.97
Baryte	(t)	1 252 262	1 262 476	2 050 215	2 000 000	2 000 000	59.71	0.00
Bentonite	(t)	1 580 000	2 978 858	3 488 264	3 555 000	3 600 000	127.85	1.27
Diam. (Gem)	(ct)	12 784	13 970	12 940	12 680	9 510	-25.61	-25.00
Diam. (Ind)	(ct)	23 260	22 520	26 760	25 750	19 310	-16.98	-25.01
Feldspar	(t)	3 343 773	6 434 788	4 270 245	4 300 000	4 300 000	28.60	0.00

**Abbreviations:** see Explanation

Fluorspar	(t)	2 333	1 175	1 314	1 079	1 315	-43.63	21.87
Graphite	(t)	135 528	122 437	33 649	39 030	31 991	-76.40	-18.03
Gypsum	(t)	2 138 814	1 816 981	2 048 127	2 000 000	2 000 000	-6.49	0.00
Kaolin	(t)	4 770 000	4 110 000	4 100 000	4 400 000	4 400 000	-7.76	0.00
Magnesite	(t)	327 663	299 149	195 055	146 875	97 684	-70.19	-33.49
Phosphates	(t)	368 350	288 830	360 220	313 840	322 000	-12.58	2.60
Salt	(t)	27 643 700	29 191 600	28 949 400	30 033 300	27 300 000	-1.24	-9.10
Sulfur	(t)	2 741 100	2 960 800	3 475 200	4 290 400	3 900 950	42.31	-9.08
Talc	(t)	1 094 101	1 292 893	1 652 367	1 640 000	1 640 000	49.89	0.00
Vermiculite	(t)	23 279	9 042	6 054	2 992	2 774	-88.08	-7.29
Zircon	(t)	18 437	11 709	9 107	11 906	12 000	-34.91	0.79
Steam Coal	(t)	578 343 000	596 207 000	635 252 000	687 586 000	677 936 000	17.22	-1.40
Coking Coal	(t)	60 887 000	61 661 000	40 148 000	41 132 000	52 937 000	-13.06	28.70
Lignite	(t)	43 842 000	45 230 000	46 644 000	44 283 000	42 103 000	-3.97	-4.92
Nat. Gas (Mio m <sup>3</sup> )		31 129	30 848	31 731	32 058	30 257	-2.80	-5.62
Petroleum	(t)	36 941 750	36 008 830	35 684 330	34 203 270	32 169 270	-12.92	-5.95
Uranium	(t)	454	454	496	499	363	-20.04	-27.25
Total	(t)	922 868 716	967 415 032	989 273 608	1 046 483 712	1 060 928 972		

## Indonesia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	2 111 200	2 300 000	1 075 800	600 000	1 379 300	-34.67	129.88
Cobalt	(t)	350	350	350	350	350	0.00	0.00
Manganese	(t)	27 000	24 500	24 000	24 000	24 000	-11.11	0.00
Nickel	(t)	129 600	198 900	363 000	651 600	1 036 200	699.54	59.02
Aluminium	(t)	257 149	245 483	215 192	219 306	233 457	-9.21	6.45
Bauxite	(t)	471 867	494 722	1 733 380	11 023 850	16 592 740	3 416.40	50.52
Copper	(t)	586 914	727 959	621 979	651 132	351 080	-40.18	-46.08
Lead	(t)	5 470	5 280	7 635	11 380	10 820	97.81	-4.92
Tin	(t)	70 310	62 877	78 070	82 809	76 390	8.65	-7.75
Zinc	(t)	21 260	8 540	13 800	20 070	21 020	-1.13	4.73
Gold	(kg)	92 171	91 090	101 510	135 250	108 900	18.15	-19.48
Silver	(kg)	201 595	228 640	328 780	308 810	487 400	141.77	57.83
Feldspar	(t)	1 204 900	1 353 300	2 601 000	1 368 400	1 370 000	13.70	0.12
Kaolin	(t)	681 100	728 000	736 600	749 300	750 000	10.12	0.09
Salt	(t)	2 186 600	141 000	1 021 321	2 719 256	2 852 125	30.44	4.89
Sulfur	(t)	540 000	540 000	500 000	500 000	500 000	-7.41	0.00
Zircon	(t)	30 900	34 800	29 500	53 700	73 100	136.57	36.13
Steam Coal	(t)	449 534 000	460 137 000	490 409 256	543 102 005	610 407 030	35.79	12.39
Coking Coal	(t)	2 230 000	3 340 000	4 300 000	5 117 786	5 752 018	157.94	12.39
Nat. Gas (Mio m <sup>3</sup> )		75 740	74 670	72 270	72 570	67 160	-11.33	-7.45
Petroleum	(t)	39 121 400	41 488 400	39 879 800	38 434 800	37 104 200	-5.16	-3.46
Total	(t)	559 802 314	571 567 431	601 427 114	663 386 188	732 262 426		

**Abbreviations:** see Explanation

## Iran

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	25 797 898	21 623 000	21 884 000	24 700 000	28 305 000	9.72	14.60
Chromium	(t)	142 810	162 100	92 850	113 410	104 400	-26.90	-7.94
Manganese	(t)	69 760	33 110	33 915	45 595	50 240	-27.98	10.19
Molybdenum	(t)	3 337	3 340	4 280	3 690	4 160	24.66	12.74
Titanium	(t)	38 290	3 340	30 630	30 000	4 880	-87.26	-83.73
Aluminium	(t)	353 000	341 000	337 608	304 800	258 166	-26.87	-15.30
Antimony	(t)	216	2 767	620	1 645	330	52.78	-79.94
Arsenic	(t)	110	0	400	0	0	-100.00	.
Bauxite	(t)	773 700	765 616	804 510	866 683	828 788	7.12	-4.37
Copper	(t)	254 709	282 500	295 653	316 380	308 270	21.03	-2.56
Lead	(t)	32 500	36 900	44 900	49 600	72 500	123.08	46.17
Mercury	(t)	14	2	3	0	0	-100.00	.
Zinc	(t)	94 100	106 900	129 900	143 600	209 900	123.06	46.17
Gold	(kg)	2 368	4 537	7 100	7 600	8 140	243.75	7.11
Silver	(kg)	48 380	50 000	50 000	50 000	50 000	3.35	0.00
Baryte	(t)	1 085 667	1 449 038	514 711	477 227	247 207	-77.23	-48.20
Bentonite	(t)	435 974	356 036	517 524	423 604	761 079	74.57	79.67
Boron	(t)	515	36	850	851	2 026	293.40	138.07
Diatomite	(t)	9 500	37	0	0	600	-93.68	.
Feldspar	(t)	1 003 354	1 120 449	1 128 585	1 320 452	2 415 368	140.73	82.92
Fluorspar	(t)	39 286	70 820	55 297	55 000	54 824	39.55	-0.32
Gypsum	(t)	17 793 500	15 715 011	13 942 092	10 904 289	14 750 093	-17.10	35.27
Kaolin	(t)	791 193	868 179	861 938	1 158 983	1 813 395	129.20	56.46
Magnesite	(t)	165 073	145 223	166 636	137 445	147 760	-10.49	7.50
Perlite	(t)	63 030	17 083	23 837	71 579	31 828	-49.50	-55.53
Phosphates	(t)	65 342	77 912	88 715	105 840	102 230	56.45	-3.41
Potash	(t)	8 200	10 500	15 300	32 900	37 200	353.66	13.07
Salt	(t)	4 448 463	2 995 025	2 839 430	2 453 873	2 639 192	-40.67	7.55
Sulfur	(t)	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	0.00	0.00
Talc	(t)	150 965	87 899	86 514	73 259	49 650	-67.11	-32.23
Vermiculite	(t)	1 000	1 000	0	0	0	-100.00	.
Steam Coal	(t)	109 000	121 000	138 000	400 000	485 000	344.95	21.25
Coking Coal	(t)	1 097 000	1 214 000	1 383 000	1 650 000	1 600 000	45.85	-3.03
Nat. Gas (Mio m <sup>3</sup> )		183 548	199 342	219 527	238 327	244 155	33.02	2.45
Petroleum	(t)	180 242 940	216 144 450	235 487 640	224 677 310	160 831 240	-10.77	-28.42
Total	(t)	384 108 896	425 427 928	458 730 995	463 379 673	413 639 384		

## Iraq

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	1 000 000	1 000 000	1 000 000	1 000 000	1 000 000	0.00	0.00
Phosphates	(t)	0	40 000	40 000	377 120	300 000	.	-20.45
Salt	(t)	209 000	200 000	237 350	271 500	270 000	29.19	-0.55
Sulfur	(t)	40 000	40 000	40 000	40 000	40 000	0.00	0.00

Abbreviations: see Explanation

Nat. Gas (Mio m <sup>3</sup> )		7 300	9 900	10 120	10 574	10 779	47.66	1.94
Petroleum (t)		195 614 960	217 606 460	222 380 480	227 010 780	234 220 860	19.74	3.18
Total (t)		202 703 960	226 806 460	231 793 830	237 158 600	244 454 060		

## Ireland

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Lead (t)		31 300	19 600	17 100	16 712	16 053	-48.71	-3.94
Zinc (t)		236 300	147 800	130 600	131 742	122 463	-48.17	-7.04
Silver (kg)		3 770	1 076	1 344	1 160	1 578	-58.14	36.03
Gypsum (t)		250 000	250 000	200 000	200 000	200 000	-20.00	0.00
Nat. Gas (Mio m <sup>3</sup> )		120	2 770	3 170	3 060	2 390	1 891.67	-21.90
Total (t)		613 604	2 633 401	2 883 701	2 796 455	2 250 518		

## Israel

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum (t)		159 300	147 000	116 000	75 800	90 000	-43.50	18.73
Phosphates (t)		1 192 900	1 223 600	1 032 900	1 100 500	870 200	-27.05	-20.93
Potash (t)		1 297 000	2 093 100	2 126 700	2 149 300	1 852 900	42.86	-13.79
Salt (t)		333 300	389 240	514 100	377 000	370 000	11.01	-1.86
Nat. Gas (Mio m <sup>3</sup> )		7 135	8 015	8 470	9 010	9 035	26.63	0.28
Oil Shales (t)		420 100	423 100	426 000	414 580	402 882	-4.10	-2.82
Petroleum (t)		64 205	96 968	64 308	73 933	84 020	30.86	13.64
Total (t)		9 174 805	10 785 008	11 056 008	11 399 113	10 898 002		

## Italy

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bentonite (t)		12 840	45 978	86 106	100 067	82 720	544.24	-17.34
Feldspar (t)		2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	0.00	0.00
Gypsum (t)		571 730	617 188	469 044	188 618	298 242	-47.84	58.12
Kaolin (t)		180 000	180 000	200 000	300 000	250 000	38.89	-16.67
Salt (t)		3 030 687	2 550 849	2 283 406	1 514 829	1 538 072	-49.25	1.53
Sulfur (t)		683 300	838 500	846 900	809 900	1 261 100	84.56	55.71
Talc (t)		165 000	165 000	165 000	165 000	160 000	-3.03	-3.03
Steam Coal (t)		73 000	59 000	47 000	0	0	-100.00	.
Nat. Gas (Mio m <sup>3</sup> )		6 771	5 785	5 538	5 443	4 852	-28.34	-10.86
Petroleum (t)		5 470 000	3 746 000	4 138 000	4 684 200	4 279 000	-21.77	-8.65
Total (t)		17 803 357	15 030 515	14 865 856	14 317 014	13 950 734		

## Jamaica

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	9 628 818	8 540 131	8 244 628	10 058 228	9 022 286	-6.30	-10.30
Gypsum	(t)	43 000	50 000	46 000	47 000	55 000	27.91	17.02
Salt	(t)	14 379	15 354	12 565	10 000	10 000	-30.45	0.00
Total	(t)	9 686 197	8 605 485	8 303 193	10 115 228	9 087 286		

## Japan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Arsenic	(t)	45	45	45	45	45	0.00	0.00
Bismuth	(t)	632	428	525	571	540	-14.56	-5.43
Cadmium	(t)	1 959	1 988	2 142	1 980	2 000	2.09	1.01
Gallium	(t)	5	3	3	3	3	-40.00	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)	773	752	792	768	740	-4.27	-3.65
Tellurium	(t)	37	33	38	58	50	35.14	-13.79
Gold	(kg)	7 699	6 455	6 369	6 453	6 313	-18.00	-2.17
Silver	(kg)	4 616	5 076	3 408	3 596	3 467	-24.89	-3.59
Bentonite	(t)	250 000	250 000	250 000	250 000	250 000	0.00	0.00
Kaolin	(t)	12 000	12 000	12 000	12 000	12 000	0.00	0.00
Salt	(t)	938 000	928 000	926 000	929 000	930 000	-0.85	0.11
Sulfur	(t)	3 420 900	3 517 800	3 372 500	3 408 300	3 329 400	-2.67	-2.31
Talc	(t)	375 000	375 000	365 000	160 000	160 000	-57.33	0.00
Nat. Gas	(Mio m <sup>3</sup> )	2 734	2 754	3 008	2 707	2 524	-7.68	-6.76
Petroleum	(t)	536 700	494 000	505 400	449 000	470 200	-12.39	4.72
Total	(t)	7 723 336	7 783 332	7 840 926	7 377 407	7 174 259		

## Jordan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	212 839	81 000	344 191	190 606	200 000	-6.03	4.93
Kaolin	(t)	60 000	11 935	11 000	11 000	11 000	-81.67	0.00
Phosphates	(t)	2 667 520	2 557 170	2 780 030	2 567 170	2 951 470	10.64	14.97
Potash	(t)	1 436 550	1 222 140	1 415 260	1 485 960	1 516 460	5.56	2.05
Salt	(t)	46 020	41 309	48 985	48 901	49 000	6.48	0.20
Sulfur	(t)	254 900	20 000	20 000	20 000	10 000	-96.08	-50.00
Nat. Gas	(Mio m <sup>3</sup> )	122	116	102	93	95	-22.13	2.15
Petroleum	(t)	500	400	300	1 000	1 000	100.00	0.00
Total	(t)	4 775 929	4 026 754	4 701 366	4 399 037	4 814 930		

**Abbreviations:** see Explanation

## Kazakhstan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	11 122 150	10 632 570	11 705 660	12 968 800	14 278 750	28.38	10.10
Chromium	(t)	1 992 400	1 989 500	2 193 500	2 378 200	2 458 800	23.41	3.39
Manganese	(t)	328 400	323 300	294 900	288 300	230 700	-29.75	-19.98
Molybdenum	(t)	430	1 941	35	149	258	-40.00	73.15
Titanium	(t)	12 770	66 600	65 000	65 000	60 000	369.85	-7.69
Vanadium	(t)	1 000	0	0	0	0	-100.00	.
Aluminium	(t)	219 000	235 566	254 000	258 400	264 895	20.96	2.51
Antimony	(t)	979	573	350	150	0	-100.00	-100.00
Bauxite	(t)	4 682 600	4 801 300	4 846 100	6 104 200	4 118 400	-12.05	-32.53
Bismuth	(t)	140	260	200	159	200	42.86	25.79
Cadmium	(t)	1 459	2 682	2 690	850	1 200	-17.75	41.18
Copper	(t)	467 500	471 500	540 700	632 550	604 470	29.30	-4.44
Lead	(t)	40 700	70 500	111 200	86 500	55 700	36.86	-35.61
Rhenium	(kg)	3 306	6 700	2 600	1 600	1 000	-69.75	-37.50
Selenium	(t)	13	13	40	10	10	-23.08	0.00
Zinc	(t)	342 500	324 800	315 900	304 400	244 700	-28.55	-19.61
Gold	(kg)	63 614	74 737	85 339	100 288	106 559	67.51	6.25
Silver	(kg)	1 306 575	1 182 476	1 041 838	969 347	1 022 068	-21.78	5.44
Asbestos	(t)	179 800	192 600	192 700	202 900	210 700	17.19	3.84
Baryte	(t)	752 300	612 300	569 900	773 200	530 600	-29.47	-31.38
Bentonite	(t)		119 100	120 000	120 000	120 000	.	0.00
Boron	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Gypsum	(t)	82 300	137 400	133 200	121 400	78 200	-4.98	-35.58
Phosphates	(t)	387 100	348 600	368 400	381 200	388 540	0.37	1.93
Salt	(t)	608 627	730 283	803 794	885 717	1 094 659	79.86	23.59
Sulfur	(t)	3 150 000	2 850 000	3 789 700	3 218 250	3 337 050	5.94	3.69
Steam Coal	(t)	84 773 000	81 856 000	90 910 400	101 085 800	98 593 000	16.30	-2.47
Coking Coal	(t)	17 020 000	15 468 000	15 749 700	10 836 000	10 478 500	-38.43	-3.30
Lignite	(t)	5 526 000	5 750 000	5 739 000	6 560 700	5 928 900	7.29	-9.63
Nat. Gas (Mio m <sup>3</sup> )		33 386	28 466	31 587	36 350	33 100	-0.86	-8.94
Petroleum	(t)	79 456 300	78 031 800	86 194 400	90 359 500	90 555 400	13.97	0.22
Uranium	(t)	28 072	29 113	27 500	25 595	26 895	-4.19	5.08
Total	(t)	237 915 714	227 850 365	250 229 699	266 769 001	260 171 657		

Abbreviations: see Explanation

## Kenya

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)		0	2 700	7 000	16 600	.	137.14
Titanium	(t)	319 750	339 480	345 560	340 150	262 660	-17.85	-22.78
Gold	(kg)	337	197	503	472	395	17.21	-16.31
Diatomite	(t)	1 090	1 238	1 406	1 548	921	-15.50	-40.50
Fluorspar	(t)	70 096	42 656	6 945	0	0	-100.00	.
Gypsum	(t)	5 800	5 760	5 700	5 700	5 700	-1.72	0.00
Kaolin	(t)	1 100	1 000	1 000	1 000	1 000	-9.09	0.00
Salt	(t)	21 201	23 425	43 245	28 841	30 600	44.33	6.10
Vermiculite	(t)	410	100	0	0	100	-75.61	.
Zircon	(t)	25 951	39 687	42 217	36 387	30 440	17.30	-16.34
Petroleum	(t)				0	32 400	.	.
Total	(t)	445 398	453 346	448 774	420 626	380 421		

## Korea, North

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	1 255 200	1 300 000	1 365 000	1 306 500	1 144 700	-8.80	-12.38
Molybdenum	(t)	370	440	480	560	530	43.24	-5.36
Tungsten	(t)	72	50	310	1 410	1 130	1 469.44	-19.86
Cadmium	(t)	200	200	200	200	150	-25.00	-25.00
Copper	(t)	15 000	20 000	15 000	15 000	2 000	-86.67	-86.67
Lead	(t)	32 300	36 800	31 600	35 000	25 000	-22.60	-28.57
Zinc	(t)	45 000	64 000	36 000	30 000	25 700	-42.89	-14.33
Gold	(kg)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Silver	(kg)	50 000	50 000	70 000	70 000	50 000	0.00	-28.57
Baryte	(t)	12 000	9 000	4 200	4 200	4 000	-66.67	-4.76
Fluorspar	(t)	4 000	4 525	6 900	6 900	6 900	72.50	0.00
Graphite	(t)	40 000	47 000	50 000	45 000	45 000	12.50	0.00
Magnesite	(t)	149 599	160 935	172 488	100 000	100 000	-33.15	0.00
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)	20 500	10 000	10 000	10 000	10 000	-51.22	0.00
Talc	(t)	50 000	40 000	40 000	40 000	40 000	-20.00	0.00
Steam Coal	(t)	27 490 000	32 827 000	22 271 000	16 899 000	17 730 000	-35.50	4.92
Total	(t)	29 709 301	35 115 010	24 598 258	19 088 850	19 730 170		

Abbreviations: see Explanation

## Korea, South

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	267 190	266 810	186 330	229 530	205 410	-23.12	-10.51
Molybdenum	(t)	258	0	0	1	266	3.10	26 500.00
Titanium	(t)	112 250	91 800	122 670	117 250	162 790	45.02	38.84
Tungsten	(t)	8	14	0	0	0	-100.00	.
Cadmium	(t)	3 620	4 595	4 960	5 100	3 950	9.12	-22.55
Copper	(t)		117	7	0	0	.	.
Gallium	(t)	2	3	3	3	2	0.00	-33.33
Indium	(t)	195	210	215	235	225	15.38	-4.26
Lead	(t)	2 920	2 840	3 760	2 340	1 930	-33.90	-17.52
Zinc	(t)	2 070	2 260	3 320	3 660	4 110	98.55	12.30
Gold	(kg)	269	205	285	239	181	-32.71	-24.27
Silver	(kg)	4 586	6 579	8 863	7 090	5 243	14.33	-26.05
Bentonite	(t)	78 439	63 834	47 306	31 824	43 886	-44.05	37.90
Diatomite	(t)	15 310	20 564	133 741	25 902	40 910	167.21	57.94
Feldspar	(t)	601 030	654 398	717 177	617 166	396 898	-33.96	-35.69
Graphite	(t)	62	0	0	670	302	387.10	-54.93
Kaolin	(t)	356 866	366 511	416 648	369 274	317 626	-11.00	-13.99
Salt	(t)	342 844	323 470	308 844	282 590	261 970	-23.59	-7.30
Sulfur	(t)	1 960 000	2 000 000	2 000 000	2 000 000	2 000 000	2.04	0.00
Talc	(t)	603 231	592 247	434 292	348 794	330 250	-45.25	-5.32
Steam Coal	(t)	1 764 050	1 727 046	1 485 582	1 201 920	1 084 000	-38.55	-9.81
Nat. Gas	(Mio m <sup>3</sup> )	180	148	326	293	229	27.22	-21.84
Petroleum	(t)	15 630	14 130	29 610	25 730	21 130	35.19	-17.88
Total	(t)	6 269 980	6 249 256	6 155 274	5 496 396	5 058 860		

## Kosovo

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nickel	(t)	6 650	4 310	7 120	4 790	3 360	-49.47	-29.85
Lead	(t)	5 400	6 530	5 100	4 700	4 000	-25.93	-14.89
Zinc	(t)	4 000	4 800	4 500	3 600	3 100	-22.50	-13.89
Lignite	(t)	8 240 994	8 800 848	7 574 697	7 169 767	8 063 051	-2.16	12.46
Total	(t)	8 257 044	8 816 488	7 591 417	7 182 857	8 073 511		

## Kuwait

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	64 289	66 664	58 250	53 350	55 000	-14.45	3.09
Sulfur	(t)	753 500	750 000	556 800	671 000	623 300	-17.28	-7.11



Nat. Gas (Mio m <sup>3</sup> )		16 909	17 291	17 102	17 738	13 952	-17.49	-21.34
Petroleum (t)		142 322 500	147 074 800	134 671 200	136 282 700	133 347 200	-6.31	-2.15
Total (t)		156 667 489	161 724 264	148 967 850	151 197 450	145 187 100		

## Kyrgyzstan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Tungsten (t)		80	0	0	0	0	-100.00	.
Antimony (t)		1 200	1 880	1 380	680	20	-98.33	-97.06
Copper (t)		3 100	8 638	8 956	8 813	8 640	178.71	-1.96
Mercury (t)		20	50	10	88	20	0.00	-77.27
Gold (kg)		17 015	19 856	22 795	22 602	23 797	39.86	5.29
Silver (kg)		17 220	20 397	19 212	18 328	19 010	10.39	3.72
Gypsum (t)		60 617	98 000	100 000	152 842	150 000	147.46	-1.86
Kaolin (t)		0	0	40 000	15 000	15 000	.	0.00
Salt (t)		4 744	7 000	6 000	4 665	5 605	18.15	20.15
Steam Coal (t)		345 000	248 000	246 500	316 200	344 830	-0.05	9.05
Lignite (t)		1 584 000	1 603 000	1 628 900	2 057 500	2 187 900	38.13	6.34
Nat. Gas (Mio m <sup>3</sup> )		32	29	26	27	24	-25.00	-11.11
Petroleum (t)		107 100	145 300	173 200	200 000	236 400	120.73	18.20
Total (t)		2 131 495	2 135 108	2 225 788	2 777 429	2 967 658		

## Laos

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron (t)		140 850	69 040	150 000	59 500	282 180	100.34	374.25
Antimony (t)		1 166	242	320	330	70	-94.00	-78.79
Copper (t)		167 702	167 679	153 304	154 948	140 935	-15.96	-9.04
Lead (t)		190	510	660	330	250	31.58	-24.24
Tin (t)		461	1 005	975	430	530	14.97	23.26
Zinc (t)		0	750	0	3 080	1 250	.	-59.42
Gold (kg)		6 893	6 764	5 988	5 579	5 207	-24.46	-6.67
Silver (kg)		51 764	50 904	42 841	37 465	34 443	-33.46	-8.07
Baryte (t)		32 150	33 240	33 325	35 000	48 600	51.17	38.86
Gypsum (t)		989 516	469 436	463 039	618 783	606 387	-38.72	-2.00
Potash (t)		255 100	198 600	307 600	343 500	286 900	12.47	-16.48
Salt (t)		35 100	36 398	37 490	46 863	58 579	66.89	25.00
Steam Coal (t)		106 028	138 809	133 284	142 994	161 494	52.31	12.94
Lignite (t)		4 464 068	13 097 121	13 439 492	15 903 277	15 263 562	241.92	-4.02
Total (t)		6 192 390	14 212 888	14 719 538	17 309 078	16 850 776		

**Abbreviations:** see Explanation

## Latvia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	225 370	224 000	278 260	320 080	318 450	41.30	-0.51
Total	(t)	225 370	224 000	278 260	320 080	318 450		

## Lebanon

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	15 000	3 000	3 000	3 000	3 000	-80.00	0.00
Total	(t)	15 000	3 000	3 000	3 000	3 000		

## Lesotho

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Diam. (Gem)	(ct)	60 846	68 403	225 280	258 860	222 700	266.01	-13.97
Diam. (Ind)	(ct)	243 386	273 611	901 130	1 035 420	890 820	266.01	-13.97
Total	(t)	0	0	0	0	0		

## Liberia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	2 717 700	843 100	962 900	2 794 300	2 674 800	-1.58	-4.28
Gold	(kg)	829	4 704	6 071	7 289	4 903	491.44	-32.73
Diam. (Gem)	(ct)	39 600	36 220	36 380	45 330	35 190	-11.14	-22.37
Diam. (Ind)	(ct)	26 400	24 150	24 250	30 220	23 460	-11.14	-22.37
Total	(t)	2 717 701	843 105	962 906	2 794 307	2 674 805		

## Libya

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	150 000	150 000	150 000	150 000	200 000	33.33	33.33
Salt	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Sulfur	(t)	90 000	75 000	133 300	133 000	130 000	44.44	-2.26
Nat. Gas	(Mio m <sup>3</sup> )	15 490	15 570	14 310	13 880	14 190	-8.39	2.23
Petroleum	(t)	19 996 240	18 809 560	43 757 120	47 343 600	54 609 200	173.10	15.35
Total	(t)	32 658 240	31 520 560	55 518 420	58 760 600	66 321 200		

## Lithuania

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Sulfur	(t)	84 000	94 520	93 970	93 960	86 040	2.43	-8.43
Petroleum	(t)	73 540	63 470	55 830	46 030	39 570	-46.19	-14.03
Total	(t)	157 540	157 990	149 800	139 990	125 610		

## Madagascar

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	72 620	52 800	102 000	53 500	37 300	-48.64	-30.28
Cobalt	(t)	3 920	3 654	2 967	2 887	2 947	-24.82	2.08
Nickel	(t)	45 075	42 024	34 123	33 204	33 887	-24.82	2.06
Titanium	(t)	102 700	152 100	230 700	214 000	258 800	152.00	20.93
Beryllium	(t)	140	140	140	140	30	-78.57	-78.57
Gold	(kg)	160	586	2 834	2 977	2 059	1 186.88	-30.84
Graphite	(t)	8 100	9 230	13 300	47 900	53 400	559.26	11.48
Salt	(t)	80 000	80 000	80 000	80 000	100 000	25.00	25.00
Zircon	(t)	11 879	15 582	25 950	22 400	28 500	139.92	27.23
Total	(t)	324 434	355 531	489 183	454 034	514 866		

## Malawi

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	0	2 280	3 000	1 540	1 800	.	16.88
Phosphates	(t)	2 110	430	170	270	300	-85.78	11.11
Steam Coal	(t)	58 774	43 338	45 230	49 753	54 728	-6.88	10.00
Total	(t)	60 884	46 048	48 400	51 563	56 828		

## Malaysia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	1 015 450	1 206 130	2 469 370	2 112 790	2 621 100	158.12	24.06
Manganese	(t)	216 420	294 300	514 950	530 340	474 910	119.44	-10.45
Tantalum	(t)	9	8	6	27	10	11.11	-62.96
Titanium	(t)	3 590	5 990	8 500	12 600	6 930	93.04	-45.00

**Abbreviations:** see Explanation

Aluminium	(t)	440 000	620 000	760 000	760 000	760 000	72.73	0.00
Bauxite	(t)	27 900 000	6 700 000	830 000	589 685	900 561	-96.77	52.72
Rare Earths	(t)	565	1 876	302	86	114	-79.82	32.56
Tin	(t)	4 159	4 158	4 819	3 868	3 611	-13.18	-6.64
Gold	(kg)	4 854	2 249	2 124	2 978	3 151	-35.08	5.81
Silver	(kg)	945	1 075	1 404	1 542	686	-27.41	-55.51
Feldspar	(t)	442 980	441 856	411 204	414 441	241 189	-45.55	-41.80
Kaolin	(t)	294 693	392 933	444 559	496 219	417 222	41.58	-15.92
Zircon	(t)	826	653	1 595	509	449	-45.64	-11.79
Steam Coal	(t)	2 559 444	2 414 764	2 988 211	2 652 814	3 459 122	35.15	30.39
Nat. Gas (Mio m <sup>3</sup> )		63 425	67 557	70 290	66 212	68 470	7.95	3.41
Petroleum	(t)	32 580 100	33 193 400	32 887 600	32 509 900	30 102 900	-7.60	-7.40
Total	(t)	116 198 242	99 321 671	97 553 119	93 052 884	93 764 122		

## Mali

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	46 503	46 903	49 622	60 893	66 739	43.52	9.60
Silver	(kg)	2 608	2 600	2 900	3 000	3 000	15.03	0.00
Total	(t)	50	50	53	64	70		

## Malta

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	1 600	1 600	1 600	1 600	1 600	0.00	0.00
Total	(t)	1 600	1 600	1 600	1 600	1 600		

## Mauritania

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	7 544 600	8 624 200	7 678 500	6 961 700	7 927 700	5.08	13.88
Copper	(t)	45 001	32 818	28 791	28 137	29 620	-34.18	5.27
Gold	(kg)	8 805	7 127	9 096	9 236	13 554	53.94	46.75
Gypsum	(t)	70 000	60 000	80 000	130 000	130 000	85.71	0.00
Petroleum	(t)	263 700	235 600	165 600	0	0	-100.00	.
Total	(t)	7 923 310	8 952 625	7 952 900	7 119 846	8 087 334		

## Mauritius

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Salt	(t)	1 800	500	1 000	1 000	1 500	-16.67	50.00
Total	(t)	1 800	500	1 000	1 000	1 500		

## Mexico

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	8 077 160	8 454 390	7 027 520	8 412 810	10 331 270	27.91	22.80
Manganese	(t)	217 466	215 782	218 510	209 023	232 957	7.12	11.45
Molybdenum	(t)	11 327	11 896	13 985	20 265	21 694	91.52	7.05
Tungsten	(t)			0	45	15	.	-66.67
Antimony	(t)	90	166	240	300	289	221.11	-3.67
Bauxite	(t)	0	96 000	0	0	0	.	.
Bismuth	(t)	601	539	513	313	291	-51.58	-7.03
Cadmium	(t)	1 283	1 244	1 142	1 307	952	-25.80	-27.16
Copper	(t)	594 451	793 982	742 246	696 580	713 704	20.06	2.46
Lead	(t)	263 772	246 755	243 022	230 869	372 106	41.07	61.18
Mercury	(t)	307	267	200	230	0	-100.00	-100.00
Selenium	(t)	99	121	112	107	127	28.28	18.69
Zinc	(t)	786 774	666 896	671 444	662 355	859 194	9.20	29.72
Gold	(kg)	134 759	133 552	126 820	141 143	133 893	-0.64	-5.14
Silver	(kg)	5 955 151	5 474 968	5 815 034	7 243 341	7 485 602	25.70	3.34
Baryte	(t)	265 700	173 781	359 912	366 234	415 180	56.26	13.36
Bentonite	(t)	294 236	109 176	148 475	264 800	24 321	-91.73	-90.82
Diatomite	(t)	89 810	109 970	96 474	152 028	129 274	43.94	-14.97
Feldspar	(t)	159 372	318 169	500 692	907 755	516 196	223.89	-43.13
Fluorspar	(t)	624 574	659 776	741 678	1 959 654	1 931 532	209.26	-1.44
Graphite	(t)	6 524	14 200	10 310	4 130	2 342	-64.10	-43.29
Gypsum	(t)	7 101 612	7 697 838	9 197 520	11 275 293	7 759 139	9.26	-31.18
Kaolin	(t)	366 049	452 070	325 864	898 246	246 645	-32.62	-72.54
Magnesite	(t)	101 000	101 000	101 000	101 000	800	-99.21	-99.21
Perlite	(t)	13 000	28 431	15 899	26 400	24 497	88.44	-7.21
Phosphates	(t)	578 830	988 280	692 150	222 500	249 520	-56.89	12.14
Salt	(t)	9 718 027	10 443 786	9 570 779	9 392 052	8 845 239	-8.98	-5.82
Sulfur	(t)	858 527	673 285	551 218	442 657	364 967	-57.49	-17.55
Talc	(t)	20 452	17 263	7 129	8 448	7 202	-64.79	-14.75
Vermiculite	(t)	299	310	464	244	148	-50.50	-39.34
Steam Coal	(t)	7 492 620	8 173 505	7 528 900	6 772 528	6 175 726	-17.58	-8.81
Coking Coal	(t)	2 439 408	5 551 135	4 566 000	4 735 000	3 975 400	62.97	-16.04
Nat. Gas (Mio m <sup>3</sup> )		40 370	34 390	30 470	29 860	29 370	-27.25	-1.64
Petroleum	(t)	126 926 240	120 445 280	109 084 360	101 605 440	94 161 830	-25.81	-7.33
Total	(t)	199 311 700	193 962 902	176 799 700	173 263 997	160 866 177		

Abbreviations: see Explanation

## Moldova

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	194 900	204 400	358 500	352 500	276 400	41.82	-21.59
Total	(t)	194 900	204 400	358 500	352 500	276 400		

## Mongolia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	3 704 040	3 407 480	4 309 030	3 486 220	4 800 430	29.60	37.70
Molybdenum	(t)	2 557	2 432	2 640	2 580	2 490	-2.62	-3.49
Tungsten	(t)	877	755	523	430	370	-57.81	-13.95
Copper	(t)	335 850	374 260	314 920	309 750	292 110	-13.02	-5.69
Lead	(t)	200	4 720	7 390	11 320	13 500	6 650.00	19.26
Tin	(t)	41	25	20	25	20	-51.22	-20.00
Zinc	(t)	44 800	50 100	41 350	43 950	41 550	-7.25	-5.46
Gold	(kg)	20 829	18 436	19 849	20 655	16 300	-21.74	-21.08
Silver	(kg)	79 910	84 920	67 190	64 750	63 390	-20.67	-2.10
Fluorspar	(t)	280 300	248 900	319 330	555 230	699 400	149.52	25.97
Salt	(t)	1 686	478	860	997	533	-68.39	-46.54
Steam Coal	(t)	3 882 000	5 496 000	6 286 990	6 914 400	7 793 800	100.77	12.72
Coking Coal	(t)	12 613 000	19 998 000	25 672 000	27 073 750	30 516 900	141.95	12.72
Lignite	(t)	5 755 000	6 672 000	6 783 000	7 449 000	6 672 000	15.93	-10.43
Petroleum	(t)	1 183 000	1 125 300	1 039 900	871 500	937 900	-20.72	7.62
Total	(t)	27 803 452	37 380 553	44 778 040	46 719 238	51 771 082		

## Montenegro

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	42 499	38 915	39 379	40 163	36 552	-13.99	-8.99
Bauxite	(t)	50 369	667 259	927 847	468 164	774 725	1 438.10	65.48
Lead	(t)	2 170	2 500	3 050	3 100	3 480	60.37	12.26
Zinc	(t)	7 000	8 100	8 820	10 670	9 520	36.00	-10.78
Lignite	(t)	1 772 900	1 397 500	1 474 800	1 595 900	1 605 200	-9.46	0.58
Total	(t)	1 874 938	2 114 274	2 453 896	2 117 997	2 429 477		

## Morocco

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	6 430	5 510	36 120	18 520	7 150	11.20	-61.39
Cobalt	(t)	1 722	2 081	1 924	1 806	2 397	39.20	32.72
Manganese	(t)	35 850	34 170	49 500	39 770	35 600	-0.70	-10.49
Nickel	(t)	0	0	196	126	131	.	3.97
Arsenic	(t)	7 567	6 122	6 879	5 578	5 055	-33.20	-9.38
Copper	(t)	26 850	31 810	35 420	32 430	30 720	14.41	-5.27
Lead	(t)	32 160	28 670	38 040	30 360	32 770	1.90	7.94
Mercury	(t)	20	20	10	5	5	-75.00	0.00
Zinc	(t)	53 750	43 020	51 700	57 700	43 570	-18.94	-24.49
Gold	(kg)	448	352	220	386	221	-50.67	-42.75
Silver	(kg)	247 490	268 523	238 530	153 590	185 690	-24.97	20.90
Baryte	(t)	1 212 130	668 500	818 016	899 365	1 119 811	-7.62	24.51
Bentonite	(t)	92 290	103 230	174 546	172 749	188 081	103.79	8.88
Feldspar	(t)	32 000	33 600	101 064	75 298	75 000	134.38	-0.40
Fluorspar	(t)	80 890	73 920	75 509	87 874	73 244	-9.45	-16.65
Phosphates	(t)	8 388 700	8 601 000	10 490 100	10 960 200	11 267 500	34.32	2.80
Salt	(t)	555 760	634 610	659 263	691 637	854 397	53.73	23.53
Nat. Gas	(Mio m <sup>3</sup> )	87	80	81	87	99	13.79	13.79
Petroleum	(t)	4 998	4 841	4 640	4 840	4 335	-13.27	-10.43
Total	(t)	10 600 964	10 335 373	12 607 966	13 148 012	13 819 152		

## Mozambique

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Niobium	(t)	5	7	10	12	11	120.00	-8.33
Tantalum	(t)	28	41	57	66	59	110.71	-10.61
Titanium	(t)	425 600	504 200	557 700	535 700	498 900	17.22	-6.87
Aluminium	(t)	558 390	571 125	577 495	571 125	564 756	1.14	-1.12
Bauxite	(t)	4 985	1 451	3 182	9 912	8 024	60.96	-19.05
Beryllium	(t)	312	181	53	416	0	-100.00	-100.00
Gold	(kg)	242	201	166	507	430	77.69	-15.19
Bentonite	(t)	350	322	285	1 091	77 734	22 109.71	7 025.02
Diatomite	(t)	0	1 305	0	34 200	72 439	.	111.81
Graphite	(t)		0	802	104 000	153 000	.	47.12
Salt	(t)	12 005	10 127	21 458	27 729	28 250	135.32	1.88
Zircon	(t)	51 800	68 200	74 000	76 600	87 100	68.15	13.71
Steam Coal	(t)	1 813 717	2 214 199	4 391 833	6 891 201	4 983 146	174.75	-27.69
Coking Coal	(t)	4 786 612	3 972 122	7 385 930	8 355 292	5 356 390	11.90	-35.89
Nat. Gas	(Mio m <sup>3</sup> )	5 050	5 160	5 110	5 120	4 620	-8.51	-9.77
Petroleum	(t)	63 720	65 080	55 790	51 810	41 250	-35.26	-20.38
Total	(t)	11 757 524	11 536 360	17 156 595	20 755 155	15 567 059		

Abbreviations: see Explanation

## Myanmar

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	28 000	116 000	136 600	207 500	429 000	1 432.14	106.75
Nickel	(t)	26 400	25 000	29 250	17 750	14 200	-46.21	-20.00
Tungsten	(t)	250	170	330	190	130	-48.00	-31.58
Antimony	(t)	3 000	2 000	4 500	2 000	4 500	50.00	125.00
Copper	(t)	69 850	94 390	126 930	179 310	219 200	213.82	22.25
Lead	(t)	13 600	21 600	14 890	24 930	35 090	158.01	40.75
Rare Earths	(t)	230	2 730	5 000	20 400	17 100	7 334.78	-16.18
Tin	(t)	58 000	61 400	67 300	54 500	38 900	-32.93	-28.62
Zinc	(t)	4 850	6 500	13 150	12 240	13 680	182.06	11.76
Gold	(kg)	1 692	1 446	1 620	467	250	-85.22	-46.47
Baryte	(t)	4 535	2 627	3 206	9 658	12 439	174.29	28.79
Bentonite	(t)	700	600	600	540	0	-100.00	-100.00
Gypsum	(t)	94 395	245 789	361 015	309 343	299 316	217.09	-3.24
Salt	(t)	133 815	212 041	158 499	189 146	213 319	59.41	12.78
Steam Coal	(t)	697 000	317 000	646 900	819 715	1 478 765	112.16	80.40
Lignite	(t)	54 000	233 000	90 000	485 724	462 793	757.02	-4.72
Nat. Gas (Mio m <sup>3</sup> )		19 560	18 980	18 660	16 040	18 810	-3.83	17.27
Petroleum	(t)	697 900	608 800	573 400	480 500	429 000	-38.53	-10.72
Total	(t)	17 534 527	17 133 648	17 159 572	15 645 446	18 715 432		

## Namibia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	2 680	5 680	1 640	8 730	8 400	213.43	-3.78
Manganese	(t)	10 110	5 050	9 820	8 800	14 660	45.00	66.59
Arsenic	(t)	2 000	1 960	700	0	0	-100.00	.
Copper	(t)	13 913	16 391	15 466	15 177	14 940	7.38	-1.56
Lead	(t)	9 700	6 800	5 805	4 291	6 320	-34.85	47.29
Lithium	(t)			0	600	0	.	-100.00
Tin	(t)				0	7	.	.
Zinc	(t)	123 675	132 470	131 920	118 310	124 630	0.77	5.34
Gold	(kg)	6 410	7 062	7 800	6 632	7 016	9.45	5.79
Silver	(kg)	877	4 702	6 490	3 850	7 765	785.40	101.69
Diam. (Gem)	(ct)	1 676 108	1 494 350	1 713 800	1 985 670	1 722 830	2.79	-13.24
Diam. (Ind)	(ct)	88 216	78 650	90 200	104 510	90 675	2.79	-13.24
Graphite	(t)		0	2 216	3 456	0	.	-100.00
Salt	(t)	732 980	835 539	866 586	1 151 153	983 354	34.16	-14.58
Uranium	(t)	3 473	4 308	4 981	6 514	6 459	85.98	-0.84
Total	(t)	898 538	1 008 210	1 039 148	1 317 042	1 158 785		

Abbreviations: see Explanation



## Nauru

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Phosphates	(t)	45 700	39 800	50 900	23 000	30 600	-33.04	33.04
Total	(t)	45 700	39 800	50 900	23 000	30 600		

## Nepal

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)		0	350	180	80	.	-55.56
Magnesite	(t)	60	0	0	0	0	-100.00	.
Talc	(t)	5 255	1 860	7 096	8 658	3 463	-34.10	-60.00
Steam Coal	(t)	6 754	2 900	10 237	10 049	7 184	6.37	-28.51
Total	(t)	12 069	4 760	17 683	18 887	10 727		

## Netherlands

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	27 700	36 300	29 300	41 300	81 100	192.78	96.37
Cadmium	(t)	620	620	620	600	900	45.16	50.00
Salt	(t)	6 742 969	6 625 418	6 935 000	6 750 546	5 913 782	-12.30	-12.40
Nat. Gas	(Mio m <sup>3</sup> )	52 131	50 324	43 867	36 707	31 927	-38.76	-13.02
Petroleum	(t)	1 844 700	1 273 800	1 222 000	1 129 300	892 600	-51.61	-20.96
Total	(t)	50 320 789	48 195 338	43 280 520	37 287 346	32 429 982		

## New Caledonia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Cobalt	(t)	2 391	3 188	2 780	2 104	1 703	-28.77	-19.06
Nickel	(t)	193 199	204 207	215 382	216 225	209 549	8.46	-3.09
Total	(t)	195 590	207 395	218 162	218 329	211 252		

## New Zealand

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	1 852 360	2 027 560	2 324 640	2 100 000	1 915 000	3.38	-8.81
Aluminium	(t)	335 292	338 556	336 740	340 678	351 481	4.83	3.17
Gold	(kg)	12 687	9 866	10 288	10 045	8 217	-35.23	-18.20
Silver	(kg)	12 498	7 960	8 022	6 332	4 060	-67.51	-35.88
Bentonite	(t)	700	700	700	4 482	500	-28.57	-88.84
Kaolin	(t)	13 659	61 650	50 424	51 369	50 569	270.22	-1.56
Salt	(t)	101 000	102 000	102 000	100 000	100 000	-0.99	0.00
Steam Coal	(t)	1 732 000	1 383 000	1 426 000	1 717 860	1 550 470	-10.48	-9.74
Coking Coal	(t)	1 333 000	1 171 000	1 173 100	1 213 400	1 200 900	-9.91	-1.03
Lignite	(t)	324 086	313 035	319 487	307 378	287 830	-11.19	-6.36
Nat. Gas	(Mio m <sup>3</sup> )	4 606	4 763	4 761	4 161	4 464	-3.08	7.28
Petroleum	(t)	1 860 880	1 572 040	1 399 820	1 085 650	1 088 120	-41.53	0.23
Total	(t)	11 237 802	10 779 959	10 941 729	10 249 633	10 116 082		

## Nicaragua

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	7 612	8 391	7 367	7 703	9 190	20.73	19.30
Silver	(kg)	18 577	21 382	15 419	11 263	17 362	-6.54	54.15
Gypsum	(t)	50 374	41 750	66 740	70 341	39 925	-20.74	-43.24
Salt	(t)	55 000	55 000	50 000	50 000	55 000	0.00	10.00
Total	(t)	105 401	96 779	116 762	120 360	94 951		

## Niger

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	1 220	999	914	6 207	1 208	-0.98	-80.54
Silver	(kg)	100	100	100	300	100	0.00	-66.67
Steam Coal	(t)	221 024	246 631	233 792	221 580	213 344	-3.47	-3.72
Petroleum	(t)	744 600	820 300	909 200	827 300	889 600	19.47	7.53
Uranium	(t)	4 852	4 101	4 066	3 433	3 516	-27.54	2.42
Total	(t)	970 477	1 071 033	1 147 059	1 052 319	1 106 461		

## Nigeria

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	20 000	700	0	700	1 000	-95.00	42.86
Manganese	(t)	510	20 330	13 550	22 880	1 000	96.08	-95.63
Niobium	(t)	29	104	122	181	150	417.24	-17.13
Tantalum	(t)	72	66	480	230	200	177.78	-13.04
Tungsten	(t)	27	8	12	66	15	-44.44	-77.27
Beryllium	(t)	56	0	0	35	25	-55.36	-28.57
Lead	(t)	16 000	14 500	24 260	17 900	23 550	47.19	31.56
Lithium	(t)			0	50	50	.	0.00
Tin	(t)	2 298	3 443	8 260	7 850	6 900	200.26	-12.10
Zinc	(t)	14 200	13 400	22 130	26 920	23 310	64.15	-13.41
Gold	(kg)	7 000	7 000	7 000	10 000	9 000	28.57	-10.00
Baryte	(t)	3 323	537	717	387	0	-100.00	-100.00
Feldspar	(t)	25 280	34 144	27 660	41 355	40 000	58.23	-3.28
Gypsum	(t)	34 621	28 000	39 939	39 052	40 000	15.54	2.43
Kaolin	(t)	20 000	24 104	46 935	11 707	12 000	-40.00	2.50
Talc	(t)	0	667	1 897	2 668	2 500	.	-6.30
Zircon	(t)	1 825	891	4 086	1 421	1 000	-45.21	-29.63
Steam Coal	(t)	144 880	989 155	397 214	352 679	400 000	176.09	13.42
Nat. Gas (Mio m <sup>3</sup> )		52 700	48 640	50 630	50 810	51 870	-1.57	2.09
Petroleum	(t)	106 050 000	89 588 000	94 081 000	95 675 000	100 287 000	-5.43	4.82
Total	(t)	148 493 128	129 630 056	135 172 269	136 849 091	142 334 709		

## North Macedonia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Copper	(t)	11 102	10 429	8 966	7 718	7 231	-34.87	-6.31
Lead	(t)	37 920	31 030	39 850	41 900	43 490	14.69	3.79
Zinc	(t)	29 150	24 870	27 510	29 720	31 040	6.48	4.44
Gold	(kg)	494	664	972	767	593	20.04	-22.69
Silver	(kg)	17 660	13 970	17 630	17 240	17 880	1.25	3.71
Bentonite	(t)	9 012	1 968	912	2 945	682	-92.43	-76.84
Feldspar	(t)	20 289	19 919	21 237	30 813	29 519	45.49	-4.20
Gypsum	(t)	172 525	202 582	217 491	230 029	267 181	54.87	16.15
Talc	(t)	598	729	478	559	0	-100.00	-100.00
Lignite	(t)	5 936 597	5 130 055	5 056 918	4 946 486	5 066 083	-14.66	2.42
Total	(t)	6 217 211	5 421 597	5 373 381	5 290 188	5 445 245		

Abbreviations: see Explanation

## Norway

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	2 252 200	1 425 000	992 700	1 129 900	1 069 700	-52.50	-5.33
Molybdenum	(t)	1	1	0	0	1	0.00	.
Nickel	(t)	300	230	190	170	135	-55.00	-20.59
Titanium	(t)	277 340	260 000	238 200	176 370	211 280	-23.82	19.79
Aluminium	(t)	1 227 787	1 247 000	1 253 000	1 295 000	1 337 500	8.94	3.28
Cadmium	(t)	310	335	416	380	370	19.35	-2.63
Bentonite	(t)			0	3 234	0	.	-100.00
Feldspar	(t)	76	70 000	87 900	88 000	80 000	163.16	-9.09
Graphite	(t)	9 185	9 600	9 600	10 000	9 780	6.48	-2.20
Gypsum	(t)	77 403	82 386	87 891	89 655	102 100	31.91	13.88
Salt	(t)	7 600	10 632	10 000	56 000	10 000	31.58	-82.14
Sulfur	(t)	110 000	110 000	100 000	120 000	100 000	-9.09	-16.67
Steam Coal	(t)	1 203 382	960 341	134 433	154 200	117 000	-90.28	-24.12
Nat. Gas (Mio m <sup>3</sup> )		117 008	116 767	124 664	122 203	115 123	-1.61	-5.79
Petroleum	(t)	88 924 000	91 424 500	89 849 500	84 275 900	79 388 000	-10.72	-5.80
Total	(t)	187 695 984	189 013 625	192 495 030	185 161 209	174 524 266		

## Oman

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	179 680	232 820	181 090	353 630	243 100	35.30	-31.26
Manganese	(t)	3 950	3 660	3 400	11 170	8 250	108.86	-26.14
Aluminium	(t)	377 186	386 395	252 714	379 775	390 515	3.53	2.83
Copper	(t)	8 650	0	0	0	0	-100.00	.
Gypsum	(t)	6 251 900	7 933 617	8 438 286	9 666 701	10 663 185	70.56	10.31
Kaolin	(t)	169 500	188 300	218 600	110 300	12 500	-92.63	-88.67
Salt	(t)	12 600	12 100	18 035	11 537	15 003	19.07	30.04
Sulfur	(t)	43 295	35 560	59 140	84 990	79 140	82.79	-6.88
Nat. Gas (Mio m <sup>3</sup> )		31 811	32 601	33 172	37 660	37 460	17.76	-0.53
Petroleum	(t)	48 844 500	50 135 200	48 308 200	48 710 000	48 339 200	-1.03	-0.76
Total	(t)	81 340 061	85 008 452	84 017 065	89 456 103	89 718 893		

## Pakistan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	124 990	164 220	190 630	257 340	238 130	90.52	-7.46
Chromium	(t)	40 700	27 730	42 100	38 970	57 570	41.45	47.73
Manganese	(t)	1 710	20	430	50	390	-77.19	680.00

**Abbreviations:** see Explanation

Antimony	(t)	114	21	15	20	0	-100.00	-100.00
Bauxite	(t)	24 689	57 024	75 375	145 189	94 149	281.34	-35.15
Copper	(t)	13 056	14 136	10 052	12 538	13 049	-0.05	4.08
Lead	(t)	136	1 196	3 050	4 820	8 090	5 848.53	67.84
Zinc	(t)	0	7 700	19 460	26 980	37 365	.	38.49
Baryte	(t)	118 773	157 858	91 711	88 847	116 666	-1.77	31.31
Bentonite	(t)	23 283	42 038	42 770	74 268	49 380	112.09	-33.51
Feldspar	(t)	38 568	316 289	273 468	151 743	346 236	797.73	128.17
Fluorspar	(t)	5 960	9 494	2 263	2 777	4 208	-29.40	51.53
Gypsum	(t)	1 417 007	1 871 716	2 079 629	2 475 893	2 265 131	59.85	-8.51
Kaolin	(t)	18 956	20 726	28 710	19 483	15 539	-18.03	-20.24
Magnesite	(t)	4 581	35 228	19 656	23 596	41 477	805.41	75.78
Phosphates	(t)	15 230	20 730	11 100	12 340	14 950	-1.84	21.15
Salt	(t)	2 404 116	3 867 325	3 806 888	3 647 584	4 108 929	70.91	12.65
Sulfur	(t)	19 730	14 869	23 740	22 040	20 715	4.99	-6.01
Talc	(t)	116 223	125 985	152 279	141 504	167 148	43.82	18.12
Steam Coal	(t)	3 407 659	3 749 312	3 953 992	4 477 555	5 371 865	57.64	19.97
Nat. Gas (Mio m <sup>3</sup> )		41 511	41 958	41 678	41 313	40 679	-2.00	-1.53
Petroleum	(t)	4 627 053	4 246 335	4 329 141	4 441 610	4 433 150	-4.19	-0.19
Uranium	(t)	53	53	53	53	53	0.00	0.00
Total	(t)	45 631 387	48 316 405	48 498 912	49 115 600	49 947 390		

## Panama

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Copper	(t)				0	147 480	.	.
Gold	(kg)	0	0	0	0	1 869	.	.
Silver	(kg)				0	35 217	.	.
Salt	(t)	23 267	23 470	18 590	17 281	27 389	17.72	58.49
Total	(t)	23 267	23 470	18 590	17 281	174 906		

## Papua New Guinea

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	45 000	23 400	34 470	40 290	58 700	30.44	45.69
Cobalt	(t)	2 505	2 187	3 307	3 275	2 915	16.37	-10.99
Nickel	(t)	25 582	22 234	34 664	35 354	33 091	29.35	-6.40
Copper	(t)	45 185	80 022	105 448	96 277	99 432	120.06	3.28
Gold	(kg)	57 633	61 785	61 678	67 282	70 450	22.24	4.71
Silver	(kg)	73 166	95 879	69 650	93 311	146 186	99.80	56.67
Nat. Gas (Mio m <sup>3</sup> )		2 941	3 128	3 286	2 914	3 339	13.53	14.58
Petroleum	(t)	2 951 500	2 907 400	2 656 600	1 898 700	1 889 900	-35.97	-0.46
Total	(t)	5 422 703	5 537 801	5 463 421	4 405 256	4 755 454		

**Abbreviations:** see Explanation

## Paraguay

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	4 500	4 500	4 500	4 500	4 500	0.00	0.00
Kaolin	(t)	6 000	6 000	6 000	6 000	6 000	0.00	0.00
Total	(t)	10 500	10 500	10 500	10 500	10 500		

## Peru

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	7 320 810	7 663 120	8 806 450	9 533 870	10 120 007	38.24	6.15
Manganese	(t)	0	1 194	1 133	17 203	18 814	.	9.36
Molybdenum	(t)	20 153	25 757	28 141	28 034	30 441	51.05	8.59
Tungsten	(t)	110	154	0	0	0	-100.00	.
Antimony	(t)	250	0	0	0	0	-100.00	.
Arsenic	(t)	0	23 252	22 403	20 376	24 915	.	22.28
Bismuth	(t)	0	188	123	145	73	.	-49.66
Cadmium	(t)	757	820	797	765	772	1.98	0.92
Copper	(t)	1 700 817	2 353 859	2 445 585	2 437 035	2 455 440	44.37	0.76
Indium	(t)	9	5	5	5	5	-44.44	0.00
Lead	(t)	315 525	314 422	306 784	289 123	308 116	-2.35	6.57
Selenium	(t)	40	45	50	55	60	50.00	9.09
Tin	(t)	19 511	18 789	17 790	18 601	19 853	1.75	6.73
Zinc	(t)	1 421 218	1 337 081	1 473 073	1 474 674	1 404 382	-1.18	-4.77
Gold	(kg)	146 823	153 006	151 964	140 211	128 413	-12.54	-8.41
Silver	(kg)	4 101 568	4 375 337	4 417 987	4 160 162	3 860 306	-5.88	-7.21
Baryte	(t)	28 407	7 953	9 182	15 621	16 373	-42.36	4.81
Bentonite	(t)	21 341	19 410	756	2 383	46 887	119.70	1 867.56
Boron	(t)	578 910	33 792	0	100 552	111 108	-80.81	10.50
Diatomite	(t)	120 672	107 265	96 590	96 532	91 103	-24.50	-5.62
Feldspar	(t)	16 979	16 630	14 930	31 588	29 134	71.59	-7.77
Gypsum	(t)	438 025	257 423	286 657	458 479	254 382	-41.93	-44.52
Kaolin	(t)	43 251	19 098	17 700	16 004	9 208	-78.71	-42.46
Phosphates	(t)	4 241 420	4 013 220	3 211 140	3 917 140	4 214 770	-0.63	7.60
Salt	(t)	1 471 131	1 450 415	1 481 398	1 509 564	1 266 347	-13.92	-16.11
Sulfur	(t)	565 500	551 100	536 200	552 800	511 500	-9.55	-7.47
Talc	(t)	52 990	29 379	42 123	47 309	43 974	-17.01	-7.05
Steam Coal	(t)	251 788	268 883	301 446	218 787	181 023	-28.10	-17.26
Nat. Gas (Mio m <sup>3</sup> )		12 495	14 001	12 942	12 721	13 429	7.47	5.57
Petroleum	(t)	7 438 300	6 744 300	6 688 300	6 688 500	6 956 200	-6.48	4.00
Total	(t)	36 068 163	36 462 882	36 146 926	37 656 245	38 862 075		

**Abbreviations:** see Explanation

## Philippines

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	64 300	10 300	0	0	0	-100.00	.
Chromium	(t)	6 200	10 300	8 340	18 000	14 570	135.00	-19.06
Cobalt	(t)	3 900	3 500	3 700	3 600	3 750	-3.85	4.17
Nickel	(t)	415 021	300 506	339 377	344 966	323 325	-22.09	-6.27
Copper	(t)	83 835	83 649	68 156	69 933	71 892	-14.25	2.80
Selenium	(t)	70	90	100	100	100	42.86	0.00
Gold	(kg)	20 643	23 053	22 749	20 765	20 646	0.01	-0.57
Silver	(kg)	29 780	35 186	31 737	29 782	31 267	4.99	4.99
Bentonite	(t)	3 480	3 230	2 620	10 800	13 050	275.00	20.83
Feldspar	(t)	38 067	46 630	47 000	47 000	47 000	23.47	0.00
Kaolin	(t)	8 179	10 059	10 000	10 000	10 000	22.26	0.00
Magnesite	(t)	7 158	10 310	10 000	10 000	10 000	39.70	0.00
Perlite	(t)	35 675	38 745	15 038	7 329	6 608	-81.48	-9.84
Phosphates	(t)	5 930	8 690	8 600	1 500	0	-100.00	-100.00
Salt	(t)	1 000 000	1 238 610	1 250 000	1 000 000	800 000	-20.00	-20.00
Sulfur	(t)	1 026 400	1 134 400	1 056 400	1 100 000	1 050 000	2.30	-4.55
Steam Coal	(t)	8 170 000	11 211 000	11 932 000	13 055 840	15 273 525	86.95	16.99
Nat. Gas	(Mio m <sup>3</sup> )	3 470	3 979	3 942	4 270	4 403	26.89	3.11
Petroleum	(t)	839 700	838 800	750 300	726 300	652 300	-22.32	-10.19
Total	(t)	14 483 966	18 132 077	18 655 286	19 821 419	21 798 572		

## Poland

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nickel	(t)	840	770	720	660	755	-10.12	14.39
Cadmium	(t)	383	200	309	305	220	-42.56	-27.87
Copper	(t)	425 870	424 276	419 300	401 300	398 900	-6.33	-0.60
Lead	(t)	49 000	43 060	39 000	40 210	48 510	-1.00	20.64
Rhenium	(kg)	6 346	6 443	7 564	6 290	5 770	-9.08	-8.27
Selenium	(t)	87	82	74	66	76	-12.64	15.15
Zinc	(t)	65 000	61 000	50 000	43 000	40 000	-38.46	-6.98
Gold	(kg)	431	402	572	523	674	56.38	28.87
Palladium	(kg)	20	30	7	5	5	-75.00	0.00
Platinum	(kg)	40	50	11	8	8	-80.00	0.00
Silver	(kg)	1 209 094	1 264 659	1 289 900	1 264 300	1 249 000	3.30	-1.21
Bentonite	(t)	450	1 000	0	560	500	11.11	-10.71
Diatomite	(t)	600	500	500	580	680	13.33	17.24
Feldspar	(t)	76 540	88 140	91 200	71 480	42 160	-44.92	-41.02
Gypsum	(t)	1 018 450	1 043 000	1 108 000	1 042 000	1 065 000	4.57	2.21
Kaolin	(t)	286 650	299 830	284 650	310 850	317 190	10.65	2.04
Magnesite	(t)	96 000	77 920	101 920	102 110	91 490	-4.70	-10.40
Salt	(t)	3 468 000	4 079 000	4 660 000	4 125 000	4 063 000	17.16	-1.50
Sulfur	(t)	1 278 220	1 253 800	1 321 410	1 250 400	1 210 240	-5.32	-3.21

Abbreviations: see Explanation

Steam Coal	(t)	59 191 000	57 181 000	52 999 300	51 810 000	50 009 000	-15.51	-3.48
Coking Coal	(t)	12 985 000	13 204 000	12 480 640	12 047 000	12 071 000	-7.04	0.20
Lignite	(t)	63 135 000	60 273 000	63 060 000	61 144 000	52 855 000	-16.28	-13.56
Nat. Gas	(Mio m <sup>3</sup> )	5 214	5 073	5 009	4 926	4 976	-4.56	1.02
Petroleum	(t)	898 870	957 050	939 240	937 040	936 760	4.22	-0.03
Total	(t)	147 148 375	143 047 299	141 564 762	137 268 632	127 132 537		

## Portugal

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Tungsten	(t)	474	549	669	716	518	9.28	-27.65
Copper	(t)	83 081	74 352	63 812	49 064	41 553	-49.98	-15.31
Lead	(t)	3 077	4 126	5 164	19 440	27 852	805.17	43.27
Lithium	(t)	204	307	604	914	710	248.04	-22.32
Tin	(t)	42	54	81	111	108	157.14	-2.70
Zinc	(t)	66 871	71 052	71 357	144 983	161 569	141.61	11.44
Silver	(kg)	41 337	38 631	40 186	90 760	95 270	130.47	4.97
Feldspar	(t)	93 789	132 105	126 211	130 475	106 754	13.82	-18.18
Gypsum	(t)	309 966	255 026	152 059	232 921	209 076	-32.55	-10.24
Kaolin	(t)	251 582	283 571	307 982	374 029	311 677	23.89	-16.67
Salt	(t)	30 008	6 092	7 800	6 201	0	-100.00	-100.00
Talc	(t)	11 204	11 699	13 600	10 144	12 901	15.15	27.18
Total	(t)	850 339	838 972	749 379	969 089	872 813		

## Qatar

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	610 000	612 000	620 000	616 000	627 400	2.85	1.85
Sulfur	(t)	2 377 000	2 419 000	2 000 000	1 767 000	2 050 000	-13.76	16.02
Nat. Gas	(Mio m <sup>3</sup> )	164 990	167 100	166 500	165 600	167 610	1.59	1.21
Petroleum	(t)	80 787 000	79 507 000	75 393 515	71 582 598	71 766 435	-11.17	0.26
Total	(t)	215 766 000	216 218 000	211 213 515	206 445 598	208 531 835		

## Romania

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	4 200	1 550	5 660	5 150	9 290	121.19	80.39
Aluminium	(t)	271 356	272 507	282 074	282 810	280 326	3.31	-0.88
Copper	(t)	7 710	8 390	8 160	8 555	9 180	19.07	7.31
Lead	(t)	200	120	720	1 200	520	160.00	-56.67
Zinc	(t)	2 900	1 500	770	330	1 260	-56.55	281.82

**Abbreviations:** see Explanation



Gold	(kg)	500	500	960	900	500	0.00	-44.44
Silver	(kg)	18 000	18 000	18 000	18 000	18 000	0.00	0.00
Bentonite	(t)	19 355	24 996	28 005	34 809	41 964	116.81	20.56
Feldspar	(t)	13 244	4 501	5 000	20 000	20 000	51.01	0.00
Gypsum	(t)	888 746	714 273	764 786	749 668	878 546	-1.15	17.19
Kaolin	(t)	31 000	31 000	31 000	7 220	6 089	-80.36	-15.66
Salt	(t)	2 180 000	2 100 000	2 340 000	2 374 973	2 015 579	-7.54	-15.13
Steam Coal	(t)	10 000	0	0	0	0	-100.00	.
Lignite	(t)	25 492 000	22 980 000	25 752 300	23 647 150	21 652 320	-15.06	-8.44
Nat. Gas	(Mio m <sup>3</sup> )	11 092	9 811	10 582	10 278	9 959	-10.21	-3.10
Petroleum	(t)	4 003 000	3 801 000	3 635 000	3 577 000	3 568 000	-10.87	-0.25
Uranium	(t)	91	59	0	0	0	-100.00	.
Total	(t)	41 797 421	37 788 715	41 319 094	38 931 284	36 450 293		

## Russia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	62 717 000	61 360 000	62 186 000	64 192 000	60 416 000	-3.67	-5.88
Chromium	(t)	226 400	186 000	195 200	202 800	237 600	4.95	17.16
Cobalt	(t)	8 600	8 600	8 900	8 700	8 700	1.16	0.00
Molybdenum	(t)	3 254	3 359	3 227	2 262	1 989	-38.88	-12.07
Nickel	(t)	261 000	223 000	223 000	238 800	233 900	-10.38	-2.05
Niobium	(t)	628	628	648	669	659	4.94	-1.49
Tantalum	(t)	32	49	45	44	32	0.00	-27.27
Titanium	(t)	88 850	18 880	2 900	3 000	3 100	-96.51	3.33
Tungsten	(t)	2 642	2 707	2 144	2 234	2 433	-7.91	8.91
Vanadium	(t)	16 196	16 886	18 636	17 052	18 380	13.48	7.79
Aluminium	(t)	3 529 000	3 561 000	3 583 000	3 631 000	3 637 000	3.06	0.17
Antimony	(t)	7 420	6 620	6 120	30 828	21 671	192.06	-29.70
Arsenic	(t)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Bauxite	(t)	5 661 000	6 095 000	5 845 000	7 057 000	6 641 000	17.31	-5.89
Bismuth	(t)	40	30	30	30	30	-25.00	0.00
Cadmium	(t)	1 186	1 100	1 176	1 201	1 000	-15.68	-16.74
Copper	(t)	711 400	702 300	761 100	870 500	812 400	14.20	-6.67
Gallium	(t)	4	4	5	6	8	100.00	33.33
Germanium	(t)	6	6	6	6	5	-16.67	-16.67
Indium	(t)	40	5	5	4	6	-85.00	50.00
Lead	(t)	156 000	204 300	204 700	206 100	207 900	33.27	0.87
Mercury	(t)	50	50	50	50	50	0.00	0.00
Rare Earths	(t)	2 312	3 063	2 500	2 596	2 620	13.32	0.92
Rhenium	(kg)	1 500	1 500	1 500	1 000	1 000	-33.33	0.00
Selenium	(t)	180	197	194	185	193	7.22	4.32
Tellurium	(t)	35	40	44	35	38	8.57	8.57
Tin	(t)	578	627	1 011	1 531	2 471	327.51	61.40
Zinc	(t)	213 800	245 800	255 200	288 000	275 400	28.81	-4.38
Gold	(kg)	255 200	253 580	270 300	279 850	305 050	19.53	9.00
Palladium	(kg)	75 710	86 500	76 270	92 570	92 900	22.71	0.36
Platinum	(kg)	20 839	22 300	22 400	21 370	22 420	7.59	4.91
Rhodium	(kg)	2 488	2 644	2 426	2 146	2 115	-14.99	-1.44
Silver	(kg)	1 580 058	1 493 000	1 373 000	1 400 100	1 361 000	-13.86	-2.79

Abbreviations: see Explanation

Asbestos	(t)	647 690	713 675	710 250	752 917	789 600	21.91	4.87
Baryte	(t)	210 000	434 000	221 000	265 300	163 000	-22.38	-38.56
Bentonite	(t)	498 000	589 600	669 700	714 000	720 000	44.58	0.84
Boron	(t)	82 000	78 800	82 500	88 000	80 400	-1.95	-8.64
Diam. (Gem)	(ct)	25 147 434	24 431 760	21 860 500	22 973 133	25 804 591	2.61	12.33
Diam. (Ind)	(ct)	16 764 956	16 287 840	20 754 280	20 187 926	19 466 621	16.11	-3.57
Feldspar	(t)	205 000	278 100	293 300	281 300	281 300	37.22	0.00
Fluorspar	(t)	1 000	3 000	2 700	6 000	4 000	300.00	-33.33
Graphite	(t)	13 200	12 400	19 500	11 900	17 500	32.58	47.06
Gypsum	(t)	4 223 000	4 200 000	3 750 000	5 453 400	4 179 300	-1.03	-23.36
Kaolin	(t)	786 000	1 064 800	1 593 000	1 485 900	1 530 800	94.76	3.02
Magnesite	(t)	1 709 100	1 188 900	1 397 000	1 571 400	1 013 800	-40.68	-35.48
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	4 485 000	4 797 000	5 148 000	5 304 000	5 382 000	20.00	1.47
Potash	(t)	6 840 000	6 480 000	7 300 000	7 055 000	7 368 000	7.72	4.44
Salt	(t)	4 377 000	6 687 000	7 073 000	6 710 000	8 175 000	86.77	21.83
Sulfur	(t)	6 720 000	6 960 000	7 000 000	7 170 000	7 175 000	6.77	0.07
Talc	(t)	20 000	20 000	20 000	12 500	10 000	-50.00	-20.00
Vermiculite	(t)	21 000	20 000	14 400	25 904	20 000	-4.76	-22.79
Zircon	(t)	8 180	7 704	7 324	7 400	6 300	-22.98	-14.86
Steam Coal	(t)	215 500 000	223 626 100	253 700 000	271 200 000	266 700 000	23.76	-1.66
Coking Coal	(t)	82 900 000	88 600 000	85 300 000	89 800 000	93 900 000	13.27	4.57
Lignite	(t)	73 600 000	71 600 000	72 200 000	78 300 000	80 800 000	9.78	3.19
Nat. Gas (Mio m <sup>3</sup> )		621 060	606 300	680 800	708 800	717 960	15.60	1.29
Petroleum	(t)	533 551 300	547 306 140	546 742 200	555 833 900	560 256 690	5.01	0.80
Uranium	(t)	3 602	3 543	3 440	3 424	3 433	-4.69	0.26
Total	(t)	1 506 905 169	1 522 399 381	1 611 236 410	1 675 897 184	1 685 517 001		

## Russia, Asia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	15 052 100	14 726 400	15 546 500	17 331 800	16 916 500	12.39	-2.40
Cobalt	(t)	4 480	3 540	2 620	2 940	2 520	-43.75	-14.29
Molybdenum	(t)	3 254	3 359	3 227	2 262	1 989	-38.88	-12.07
Nickel	(t)	135 900	91 760	65 600	80 800	67 650	-50.22	-16.27
Tungsten	(t)	2 642	2 707	2 144	2 234	2 433	-7.91	8.91
Aluminium	(t)	3 451 000	3 480 000	3 486 000	3 486 000	3 495 200	1.28	0.26
Antimony	(t)	7 420	6 620	6 120	30 828	21 671	192.06	-29.70
Arsenic	(t)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Bismuth	(t)	40	30	30	30	30	-25.00	0.00
Cadmium	(t)	1 186	1 100	1 176	1 201	1 000	-15.68	-16.74
Copper	(t)	497 980	491 610	608 880	696 400	649 920	30.51	-6.67
Germanium	(t)	6	6	6	6	5	-16.67	-16.67
Indium	(t)	40	5	5	4	6	-85.00	50.00
Lead	(t)	156 000	204 300	204 700	206 100	207 900	33.27	0.87
Mercury	(t)	50	50	50	50	50	0.00	0.00
Selenium	(t)	180	197	194	185	193	7.22	4.32
Tellurium	(t)	35	40	44	35	38	8.57	8.57
Tin	(t)	578	627	1 011	1 531	2 471	327.51	61.40
Zinc	(t)	213 800	245 800	255 200	288 000	275 400	28.81	-4.38

Abbreviations: see Explanation

Gold	(kg)	237 340	235 830	251 380	274 450	300 750	26.72	9.58
Palladium	(kg)	54 840	60 030	22 240	40 190	36 110	-34.15	-10.15
Platinum	(kg)	16 671	16 920	10 430	9 490	8 770	-47.39	-7.59
Rhodium	(kg)	2 488	2 644	2 426	2 146	2 115	-14.99	-1.44
Silver	(kg)	1 580 058	1 493 000	1 373 000	1 400 100	1 361 000	-13.86	-2.79
Asbestos	(t)	323 845	310 000	293 330	314 217	315 300	-2.64	0.34
Baryte	(t)	210 000	434 000	221 000	265 300	163 000	-22.38	-38.56
Bentonite	(t)	348 600	416 500	468 800	499 800	492 900	41.39	-1.38
Boron	(t)	82 000	78 800	82 500	88 000	80 400	-1.95	-8.64
Diam. (Gem)	(ct)	21 786 180	21 085 560	18 966 170	17 624 988	19 525 587	-10.38	10.78
Diam. (Ind)	(ct)	14 524 120	14 057 040	18 006 413	15 488 177	14 729 829	1.42	-4.90
Feldspar	(t)	123 000	270 000	288 900	275 700	281 300	128.70	2.03
Fluorspar	(t)	1 000	3 000	2 700	6 000	4 000	300.00	-33.33
Graphite	(t)	13 200	12 400	19 500	11 900	17 500	32.58	47.06
Talc	(t)	20 000	20 000	20 000	12 500	10 000	-50.00	-20.00
Steam Coal	(t)	215 500 000	223 626 100	253 700 000	271 200 000	266 700 000	23.76	-1.66
Coking Coal	(t)	82 900 000	88 600 000	85 300 000	89 800 000	93 900 000	13.27	4.57
Lignite	(t)	66 240 000	64 440 000	64 980 000	70 470 000	72 720 000	9.78	3.19
Nat. Gas (Mio m <sup>3</sup> )		590 007	575 985	646 760	673 360	682 060	15.60	1.29
Petroleum	(t)	352 143 860	361 222 050	360 849 850	389 083 730	448 205 350	27.28	15.20
Uranium	(t)	3 602	3 543	3 440	3 424	3 433	-4.69	0.26
Total	(t)	1 209 444 796	1 219 485 860	1 303 824 693	1 382 852 209	1 450 189 375		

## Russia, Europe

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	47 664 900	46 633 600	46 639 500	46 860 200	43 499 500	-8.74	-7.17
Chromium	(t)	226 400	186 000	195 200	202 800	237 600	4.95	17.16
Cobalt	(t)	4 120	5 060	6 280	5 760	6 180	50.00	7.29
Nickel	(t)	125 100	131 240	157 400	158 000	166 250	32.89	5.22
Niobium	(t)	628	628	648	669	659	4.94	-1.49
Tantalum	(t)	32	49	45	44	32	0.00	-27.27
Titanium	(t)	88 850	18 880	2 900	3 000	3 100	-96.51	3.33
Vanadium	(t)	16 196	16 886	18 636	17 052	18 380	13.48	7.79
Aluminium	(t)	78 000	81 000	97 000	145 000	141 800	81.79	-2.21
Bauxite	(t)	5 661 000	6 095 000	5 845 000	7 057 000	6 641 000	17.31	-5.89
Copper	(t)	213 420	210 690	152 220	174 100	162 480	-23.87	-6.67
Gallium	(t)	4	4	5	6	8	100.00	33.33
Rare Earths	(t)	2 312	3 063	2 500	2 596	2 620	13.32	0.92
Rhenium	(kg)	1 500	1 500	1 500	1 000	1 000	-33.33	0.00
Gold	(kg)	17 860	17 750	18 920	5 400	4 300	-75.92	-20.37
Palladium	(kg)	20 870	26 470	54 030	52 380	56 790	172.11	8.42
Platinum	(kg)	4 168	5 380	11 970	11 880	13 650	227.50	14.90
Asbestos	(t)	323 845	403 675	416 920	438 700	474 300	46.46	8.11
Bentonite	(t)	149 400	173 100	200 900	214 200	227 100	52.01	6.02
Diam. (Gem)	(ct)	3 361 254	3 346 200	2 894 330	5 348 145	6 279 004	86.81	17.41
Diam. (Ind)	(ct)	2 240 836	2 230 800	2 747 867	4 699 749	4 736 792	111.39	0.79
Feldspar	(t)	82 000	8 100	4 400	5 600	0	-100.00	-100.00
Gypsum	(t)	4 223 000	4 200 000	3 750 000	5 453 400	4 179 300	-1.03	-23.36
Kaolin	(t)	786 000	1 064 800	1 593 000	1 485 900	1 530 800	94.76	3.02
Magnesite	(t)	1 709 100	1 188 900	1 397 000	1 571 400	1 013 800	-40.68	-35.48

Abbreviations: see Explanation

Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	4 485 000	4 797 000	5 148 000	5 304 000	5 382 000	20.00	1.47
Potash	(t)	6 840 000	6 480 000	7 300 000	7 055 000	7 368 000	7.72	4.44
Salt	(t)	4 377 000	6 687 000	7 073 000	6 710 000	8 175 000	86.77	21.83
Sulfur	(t)	6 720 000	6 960 000	7 000 000	7 170 000	7 175 000	6.77	0.07
Vermiculite	(t)	21 000	20 000	14 400	25 904	20 000	-4.76	-22.79
Zircon	(t)	8 180	7 704	7 324	7 400	6 300	-22.98	-14.86
Lignite	(t)	7 360 000	7 160 000	7 220 000	7 830 000	8 080 000	9.78	3.19
Nat. Gas (Mio m <sup>3</sup> )		31 053	30 315	34 040	35 440	35 900	15.61	1.30
Petroleum	(t)	181 407 440	186 084 090	185 892 350	166 750 170	112 051 340	-38.23	-32.80
Total	(t)	297 460 373	302 913 521	307 411 717	293 044 973	235 327 627		

## Rwanda

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Niobium	(t)	248	190	260	245	200	-19.35	-18.37
Tantalum	(t)	380	290	395	380	310	-18.42	-18.42
Tungsten	(t)	1 060	1 020	905	1 155	1 120	5.66	-3.03
Beryllium	(t)	23	30	30	30	20	-13.04	-33.33
Tin	(t)	2 770	2 560	3 430	3 405	2 685	-3.07	-21.15
Gold	(kg)	800	1 980	2 000	2 163	2 000	150.00	-7.54
Total	(t)	4 482	4 092	5 022	5 217	4 337		

## Saudi Arabia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	241 900	254 200	266 800	280 100	294 100	21.58	5.00
Aluminium	(t)	839 000	871 000	916 000	932 209	967 000	15.26	3.73
Bauxite	(t)	3 022 000	4 768 000	4 125 000	4 906 000	5 127 000	69.66	4.50
Copper	(t)	12 340	27 840	43 150	59 200	68 580	455.75	15.84
Zinc	(t)	19 020	4 230	21 787	27 100	31 870	67.56	17.60
Gold	(kg)	5 089	7 010	10 465	13 397	12 418	144.02	-7.31
Silver	(kg)	4 500	4 710	5 133	6 480	5 588	24.18	-13.77
Feldspar	(t)	179 000	188 000	197 000	175 594	216 000	20.67	23.01
Gypsum	(t)	2 780 000	3 000 000	3 150 000	3 352 832	3 472 000	24.89	3.55
Kaolin	(t)	187 000	196 000	206 000	207 461	227 000	21.39	9.42
Magnesite	(t)	77 000	100 000	104 132	155 000	200 000	159.74	29.03
Phosphates	(t)	1 530 000	1 620 000	1 701 000	1 633 200	1 714 800	12.08	5.00
Salt	(t)	2 080 000	2 400 000	2 520 000	2 646 000	2 778 000	33.56	4.99
Sulfur	(t)	4 900 000	5 969 900	6 564 200	6 600 000	6 600 000	34.69	0.00
Talc	(t)	40 000	42 000	44 000	46 000	48 000	20.00	4.35
Nat. Gas (Mio m <sup>3</sup> )		104 450	110 860	115 000	118 000	117 000	12.02	-0.85
Petroleum	(t)	568 034 180	586 712 210	559 319 390	576 817 650	556 564 010	-2.02	-3.51
Total	(t)	667 501 450	694 841 392	671 178 474	692 238 365	671 908 378		

**Abbreviations:** see Explanation

## Senegal

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Manganese	(t)	3 000	600	1 520	3 330	1 880	-37.33	-43.54
Titanium	(t)	240 270	238 120	280 320	287 940	281 030	16.96	-2.40
Gold	(kg)	5 779	6 741	7 255	12 508	14 550	151.77	16.33
Silver	(kg)	540	640	660	940	898	66.30	-4.47
Phosphates	(t)	589 110	886 500	841 020	775 410	855 850	45.28	10.37
Salt	(t)	268 176	263 218	265 040	245 700	286 100	6.68	16.44
Zircon	(t)	45 248	52 627	81 749	93 569	80 747	78.45	-13.70
Nat. Gas	(Mio m <sup>3</sup> )	23	21	18	11	16	-30.43	45.45
Petroleum	(t)	22 900	3 320	12 960	20 300	28 500	24.45	40.39
Total	(t)	1 187 111	1 461 193	1 497 017	1 435 063	1 546 923		

## Serbia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Copper	(t)	31 601	34 625	45 115	44 096	43 550	37.81	-1.24
Lead	(t)	13 610	13 610	13 890	13 810	13 930	2.35	0.87
Selenium	(t)	17	18	27	28	20	17.65	-28.57
Zinc	(t)	11 700	11 700	11 900	11 830	10 560	-9.74	-10.74
Gold	(kg)	1 186	805	1 199	839	1 452	22.43	73.06
Palladium	(kg)	22	23	50	55	100	354.55	81.82
Platinum	(kg)	2	3	3	6	10	400.00	66.67
Silver	(kg)	7 488	11 345	12 340	8 970	14 502	93.67	61.67
Kaolin	(t)	110 000	110 000	110 000	120 000	120 000	9.09	0.00
Salt	(t)	13 202	9 149	8 197	7 811	13 464	1.98	72.37
Lignite	(t)	37 029 091	38 440 527	39 805 959	37 648 957	38 880 520	5.00	3.27
Nat. Gas	(Mio m <sup>3</sup> )	573	523	489	450	439	-23.39	-2.44
Petroleum	(t)	1 050 000	963 532	924 351	910 712	881 000	-16.10	-3.26
Total	(t)	38 717 629	40 001 573	41 310 652	39 117 254	40 314 260		

## Sierra Leone

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	1 521 830	3 814 410	3 194 930	0	0	-100.00	.
Titanium	(t)	140 420	156 570	190 480	145 400	165 180	17.63	13.60
Bauxite	(t)	1 334 046	1 368 531	1 787 716	1 938 461	1 883 863	41.21	-2.82
Gold	(kg)	106	188	142	464	75	-29.25	-83.84

**Abbreviations:** see Explanation

Diam. (Gem)	(ct)	420 158	417 952	165 860	402 530	433 054	3.07	7.58
Diam. (Ind)	(ct)	79 875	131 550	122 380	339 070	391 403	390.02	15.43
Zircon	(t)	1 389	1 329	3 000	11 400	8 500	511.95	-25.44
Total	(t)	2 997 685	5 340 840	5 176 126	2 095 261	2 057 543		

## Slovakia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	171 328	173 643	173 492	173 721	174 794	2.02	0.62
Copper	(t)	58	39	32	21	17	-70.69	-19.05
Lead	(t)	226	133	147	114	111	-50.88	-2.63
Zinc	(t)	190	126	166	151	119	-37.37	-21.19
Gold	(kg)	603	466	447	515	346	-42.62	-32.82
Silver	(kg)	532	391	410	345	295	-44.55	-14.49
Baryte	(t)	20 000	23 000	15 700	11 100	0	-100.00	-100.00
Bentonite	(t)	228 433	173 530	226 425	269 990	260 120	13.87	-3.66
Feldspar	(t)	4 100	8 400	15 800	16 800	19 100	365.85	13.69
Gypsum	(t)	65 700	52 300	45 600	55 190	58 250	-11.34	5.54
Kaolin	(t)	5 900	11 923	21 400	34 400	24 970	323.22	-27.41
Magnesite	(t)	878 400	683 400	975 100	1 053 900	1 015 800	15.64	-3.62
Perlite	(t)	25 000	19 000	48 010	35 600	32 450	29.80	-8.85
Talc	(t)	1 400	800	14 000	43 000	70 100	4 907.14	63.02
Lignite	(t)	1 941 007	1 956 510	1 860 710	1 506 940	1 474 830	-24.02	-2.13
Nat. Gas	(Mio m <sup>3</sup> )	91	93	90	90	80	-12.09	-11.11
Petroleum	(t)	12 010	9 490	8 160	7 522	6 331	-47.29	-15.83
Total	(t)	3 426 554	3 186 694	3 476 742	3 280 450	3 200 992		

## Slovenia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	83 775	84 365	84 424	80 511	68 255	-18.53	-15.22
Bentonite	(t)	232	182	147	113	99	-57.33	-12.39
Salt	(t)	2 191	2 417	2 335	2 018	1 437	-34.41	-28.79
Lignite	(t)	3 168 001	3 348 889	3 355 664	3 216 735	3 218 696	1.60	0.06
Nat. Gas	(Mio m <sup>3</sup> )	3	5	9	18	8	166.67	-55.56
Petroleum	(t)	359	379	481	769	490	36.49	-36.28
Total	(t)	3 256 958	3 440 232	3 450 251	3 314 546	3 295 377		

## Solomon Islands

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	278 400	234 500	1 523 900	1 646 200	1 234 030	343.26	-25.04
Total	(t)	278 400	234 500	1 523 900	1 646 200	1 234 030		

## South Africa

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	47 323 600	43 196 310	48 808 920	48 277 430	47 064 410	-0.55	-2.51
Chromium	(t)	6 660 500	6 254 600	7 073 400	7 524 700	7 384 000	10.86	-1.87
Cobalt	(t)	1 362	1 101	1 065	1 007	1 027	-24.60	1.99
Manganese	(t)	4 186 600	4 028 100	5 501 400	5 641 200	6 456 400	54.22	14.45
Nickel	(t)	56 689	48 994	48 463	43 236	43 443	-23.37	0.48
Titanium	(t)	1 050 000	950 000	1 090 000	1 000 000	970 000	-7.62	-3.00
Vanadium	(t)	17 455	15 877	7 958	7 691	7 964	-54.37	3.55
Aluminium	(t)	695 000	701 000	716 000	714 000	717 000	3.17	0.42
Antimony	(t)	302	350	0	0	0	-100.00	.
Copper	(t)	77 360	65 257	65 532	46 900	52 501	-32.13	11.94
Lead	(t)	34 573	39 344	48 150	35 118	42 936	24.19	22.26
Zinc	(t)	29 040	26 695	30 778	28 129	125 157	330.98	344.94
Gold	(kg)	144 504	142 202	137 290	117 144	105 185	-27.21	-10.21
Palladium	(kg)	82 691	76 273	80 713	80 629	80 684	-2.43	0.07
Platinum	(kg)	139 125	133 241	132 500	137 053	132 989	-4.41	-2.97
Rhodium	(kg)	18 722	19 237	18 665	18 608	19 545	4.40	5.04
Silver	(kg)	51 861	55 622	62 536	46 467	55 903	7.79	20.31
Bentonite	(t)	165 535	148 742	165 141	173 486	105 084	-36.52	-39.43
Diam. (Gem)	(ct)	3 293 220	3 322 220	3 877 040	3 964 730	2 872 280	-12.78	-27.55
Diam. (Ind)	(ct)	4 939 840	4 983 330	5 815 560	5 947 100	4 308 420	-12.78	-27.55
Feldspar	(t)	130 184	127 872	116 705	76 803	76 255	-41.43	-0.71
Fluorspar	(t)	121 316	177 000	218 399	230 000	210 000	73.10	-8.70
Gypsum	(t)	231 688	262 457	320 685	321 988	277 102	19.60	-13.94
Kaolin	(t)	20 126	21 141	31 186	23 724	27 827	38.26	17.29
Magnesite	(t)	10 200	8 800	8 700	8 500	8 500	-16.67	0.00
Perlite	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Phosphates	(t)	648 300	593 800	727 800	720 400	639 000	-1.43	-11.30
Salt	(t)	517 159	473 339	492 860	478 285	510 012	-1.38	6.63
Sulfur	(t)	284 381	280 830	256 700	239 297	919 624	223.38	284.30
Talc	(t)	21 849	23 576	58 776	102 142	135 430	519.85	32.59
Vermiculite	(t)	138 290	166 483	166 084	141 346	158 013	14.26	11.79
Zircon	(t)	377 767	377 430	361 813	303 610	340 000	-10.00	11.99
Steam Coal	(t)	252 177 000	251 567 000	253 096 500	251 706 073	249 665 481	-1.00	-0.81
Coking Coal	(t)	3 952 000	4 247 000	4 028 275	3 935 423	3 903 518	-1.23	-0.81
Nat. Gas (Mio m <sup>3</sup> )		1 312	807	737	615	658	-49.85	6.99
Petroleum	(t)	70 978	38 796	31 145	23 770	29 774	-58.05	25.26
Uranium	(t)	528	450	304	231	163	-69.13	-29.44
Total	(t)	320 050 822	314 489 372	324 063 774	322 297 891	320 398 418		

Abbreviations: see Explanation

## South Sudan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Petroleum	(t)	7 277 200	5 785 310	6 019 320	6 287 860	6 832 520	-6.11	8.66
Total	(t)	7 277 200	5 785 310	6 019 320	6 287 860	6 832 520		

## Spain

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nickel	(t)	7 208	0	0	0	0	-100.00	.
Tungsten	(t)	835	699	564	856	341	-59.16	-60.16
Aluminium	(t)	360 000	360 000	360 000	350 000	230 000	-36.11	-34.29
Copper	(t)	129 788	172 522	196 353	187 714	170 700	31.52	-9.06
Lead	(t)	1 598	4 946	4 555	20 150	28 000	1 652.19	38.96
Tin	(t)	0	7	24	81	147	.	81.48
Zinc	(t)	49 216	76 342	70 451	106 352	106 000	115.38	-0.33
Gold	(kg)	1 825	1 291	1 825	1 991	1 913	4.82	-3.92
Silver	(kg)	27 300	74 740	82 907	87 829	90 783	232.54	3.36
Bentonite	(t)	100 604	155 038	177 565	178 463	160 477	59.51	-10.08
Diatomite	(t)	47 706	48 231	70 550	61 056	60 000	25.77	-1.73
Feldspar	(t)	558 273	634 519	819 218	616 229	620 000	11.06	0.61
Fluorspar	(t)	130 647	130 131	154 931	176 188	170 000	30.12	-3.51
Gypsum	(t)	7 403 767	8 936 364	9 545 228	10 593 056	10 643 585	43.76	0.48
Kaolin	(t)	391 960	347 258	475 074	474 462	463 617	18.28	-2.29
Magnesite	(t)	464 691	583 698	788 991	738 994	750 000	61.40	1.49
Potash	(t)	667 959	672 246	557 468	635 490	600 115	-10.16	-5.57
Salt	(t)	4 589 545	4 453 041	4 135 626	4 512 243	5 000 888	8.96	10.83
Sulfur	(t)	520 000	646 600	633 000	662 000	663 100	27.52	0.17
Talc	(t)		0	11 500	15 500	15 000	.	-3.23
Steam Coal	(t)	1 557 251	1 101 907	1 161 748	645 612	0	-100.00	-100.00
Lignite	(t)	1 723 731	730 470	1 833 357	1 727 513	0	-100.00	-100.00
Nat. Gas	(Mio m <sup>3</sup> )	59	52	34	90	135	128.81	50.00
Petroleum	(t)	229 568	139 176	118 809	89 476	40 244	-82.47	-55.02
Total	(t)	18 981 576	19 234 871	21 142 297	21 863 525	19 830 307		

## Sri Lanka

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Titanium	(t)	23 410	16 510	30 630	35 670	25 940	10.81	-27.28
Feldspar	(t)	95 000	96 000	96 000	70 000	65 400	-31.16	-6.57
Graphite	(t)	4 212	3 860	3 800	3 800	3 100	-26.40	-18.42
Kaolin	(t)	12 000	13 000	13 000	20 000	34 100	184.17	70.50



Phosphates	(t)	18 380	13 600	14 850	16 760	16 600	-9.68	-0.95
Salt	(t)	29 243	106 034	74 108	68 834	57 291	95.91	-16.77
Zircon	(t)	614	7 749	8 569	785	971	58.14	23.69
Total	(t)	182 859	256 753	240 957	215 849	203 402		

## Sudan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	7 270	1 850	15 360	12 960	8 150	12.10	-37.11
Manganese	(t)	12 560	3 920	4 000	4 000	1 000	-92.04	-75.00
Gold	(kg)	82 400	93 000	107 300	93 600	57 700	-29.98	-38.35
Silver	(kg)	1 000	1 000	2 000	1 000	1 000	0.00	0.00
Feldspar	(t)	28 238	49 000	29 000	36 000	17 000	-39.80	-52.78
Gypsum	(t)	241 360	349 236	333 000	226 000	193 000	-20.04	-14.60
Kaolin	(t)	14 490	6 500	5 446	11 000	29 000	100.14	163.64
Salt	(t)	20 136	223 397	235 000	267 000	263 000	1 206.12	-1.50
Talc	(t)	3 000	4 250	4 000	4 000	2 000	-33.33	-50.00
Petroleum	(t)	3 914 700	4 733 100	4 119 300	3 560 000	3 805 600	-2.79	6.90
Total	(t)	4 241 837	5 371 347	4 745 215	4 121 055	4 318 809		

## Suriname

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	1 865 100	0	0	0	0	-100.00	.
Gold	(kg)	9 397	12 926	25 844	26 006	24 516	160.89	-5.73
Petroleum	(t)	842 950	815 700	811 600	818 400	825 200	-2.11	0.83
Total	(t)	2 708 059	815 713	811 626	818 426	825 225		

## Sweden

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	17 096 800	18 206 400	18 741 000	18 405 000	19 367 200	13.28	5.23
Aluminium	(t)	116 000	124 000	123 000	125 000	120 000	3.45	-4.00
Copper	(t)	75 113	79 247	104 594	106 140	99 332	32.24	-6.41
Lead	(t)	79 354	75 830	71 112	64 751	68 635	-13.51	6.00
Selenium	(t)	30	60	90	40	20	-33.33	-50.00
Tellurium	(t)	33	39	35	45	41	24.24	-8.89
Zinc	(t)	246 983	258 264	251 244	237 715	247 657	0.27	4.18
Gold	(kg)	6 028	6 463	7 858	7 866	7 972	32.25	1.35
Silver	(kg)	479 686	498 686	467 500	443 624	419 926	-12.46	-5.34

**Abbreviations:** see Explanation

Feldspar	(t)	29 000	22 000	22 000	28 000	25 000	-13.79	-10.71
Graphite	(t)	295	0	0	0	0	-100.00	.
Total	(t)	17 644 094	18 766 345	19 313 551	18 967 143	19 928 313		

## Switzerland

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	320 000	340 000	330 000	330 000	330 000	3.13	0.00
Salt	(t)	476 941	447 216	448 509	530 414	477 325	0.08	-10.01
Total	(t)	796 941	787 216	778 509	860 414	807 325		

## Syria

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	230 000	101 000	66 000	66 000	70 000	-69.57	6.06
Phosphates	(t)	179 100	0	38 700	95 000	134 000	-25.18	41.05
Salt	(t)	0	5 000	5 000	12 000	50 000	.	316.67
Nat. Gas	(Mio m <sup>3</sup> )	4 050	3 530	3 490	3 470	3 330	-17.78	-4.03
Petroleum	(t)	1 197 800	1 101 250	1 078 300	1 051 030	1 024 820	-14.44	-2.49
Total	(t)	4 846 900	4 031 250	3 980 000	4 000 030	3 942 820		

## Taiwan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	2	0	4	4	6	200.00	50.00
Kaolin	(t)	732	4 035	1 665	20	500	-31.69	2 400.00
Salt	(t)	78 300	77 300	77 054	78 539	76 255	-2.61	-2.91
Sulfur	(t)	211 219	163 768	173 963	169 698	195 358	-7.51	15.12
Talc	(t)	162	250	0	17	6	-96.30	-64.71
Nat. Gas	(Mio m <sup>3</sup> )	374	321	266	198	167	-55.35	-15.66
Petroleum	(t)	7 900	7 200	4 600	4 000	3 300	-58.23	-17.50
Total	(t)	597 513	509 353	470 082	410 674	409 019		

## Tajikistan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	139 123	129 291	103 147	95 800	100 800	-27.55	5.22
Antimony	(t)	13 460	26 970	26 370	28 890	29 300	117.68	1.42
Copper	(t)	1 390	2 050	6 060	8 490	8 500	511.51	0.12

Lead	(t)	40 130	57 360	61 090	52 990	65 570	63.39	23.74
Mercury	(t)	96	120	100	120	80	-16.67	-33.33
Zinc	(t)	50 400	73 850	92 940	84 330	90 860	80.28	7.74
Gold	(kg)	4 200	5 040	5 500	6 432	8 100	92.86	25.93
Silver	(kg)	2 658	3 200	6 550	9 500	11 100	317.61	16.84
Gypsum	(t)	8 339	8 750	43 066	9 639	14 000	67.89	45.24
Salt	(t)	35 554	35 238	41 323	36 964	35 324	-0.65	-4.44
Steam Coal	(t)	1 042 491	1 361 575	1 760 090	1 907 055	2 027 790	94.51	6.33
Nat. Gas	(Mio m <sup>3</sup> )	4	3	2	1	1	-75.00	0.00
Petroleum	(t)	24 630	25 134	23 482	23 939	23 293	-5.43	-2.70
Total	(t)	1 358 820	1 722 746	2 159 281	2 249 033	2 396 336		

## Tanzania

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bauxite	(t)	204	73	12	7	0	-100.00	-100.00
Copper	(t)	16 800	17 400	15 800	10 000	14 187	-15.55	41.87
Tin	(t)	134	104	68	6	18	-86.57	200.00
Gold	(kg)	43 861	45 778	43 490	39 304	48 408	10.37	23.16
Silver	(kg)	15 569	17 984	10 911	12 041	12 550	-19.39	4.23
Diam. (Gem)	(ct)	184 025	203 915	258 785	324 105	354 240	92.50	9.30
Diam. (Ind)	(ct)	32 475	35 985	45 670	57 195	62 510	92.49	9.29
Gypsum	(t)	239 302	213 744	123 645	241 260	256 529	7.20	6.33
Kaolin	(t)	1 953	656	13 816	129 383	15 343	685.61	-88.14
Phosphates	(t)	49 020	5 200	300	650	5 050	-89.70	676.92
Salt	(t)	168 900	178 200	124 500	36 600	99 510	-41.08	171.89
Steam Coal	(t)	257 321	276 030	558 553	627 652	712 136	176.75	13.46
Nat. Gas	(Mio m <sup>3</sup> )	1 053	1 368	1 344	1 675	1 807	71.60	7.88
Total	(t)	1 576 094	1 785 871	1 911 948	2 385 609	2 548 434		

## Thailand

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	10 220	0	85	0	10 950	7.14	.
Manganese	(t)	4 320	4 390	3 850	1 920	2 305	-46.64	20.05
Titanium	(t)		0	4	23	64	.	178.26
Tungsten	(t)	31	29	43	65	37	19.35	-43.08
Antimony	(t)	0	32	0	0	0	.	.
Tin	(t)	45	58	341	47	46	2.22	-2.13
Zinc	(t)	36 210	35 130	1 580	0	0	-100.00	.
Gold	(kg)	3 305	4 293	0	0	0	-100.00	.
Silver	(kg)	21 047	35 954	0	0	0	-100.00	.

**Abbreviations:** see Explanation

Baryte	(t)	170 621	223 101	147 954	67 490	33 644	-80.28	-50.15
Feldspar	(t)	1 331 916	1 167 147	1 385 925	1 117 803	1 251 143	-6.06	11.93
Fluorspar	(t)	15 095	20 100	5 500	16 700	17 747	17.57	6.27
Gypsum	(t)	12 143 168	11 746 811	10 646 644	11 197 657	9 787 287	-19.40	-12.60
Kaolin	(t)	102 763	101 618	103 079	110 437	92 414	-10.07	-16.32
Perlite	(t)	17 200	15 690	5 800	5 600	15 000	-12.79	167.86
Phosphates	(t)	0	0	2 400	0	0	.	.
Salt	(t)	1 385 911	1 390 548	1 497 223	1 487 364	1 580 390	14.03	6.25
Talc	(t)	52 268	103 926	61 436	58 676	14 564	-72.14	-75.18
Lignite	(t)	15 150 549	16 978 601	16 258 637	14 851 950	14 077 965	-7.08	-5.21
Nat. Gas	(Mio m <sup>3</sup> )	39 793	39 037	37 417	36 454	37 450	-5.89	2.73
Petroleum	(t)	12 347 720	12 858 430	11 939 770	11 361 710	11 362 120	-7.98	0.00
Total	(t)	74 602 461	75 875 251	71 993 871	69 440 642	68 205 676		

## Togo

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gold	(kg)	15 568	14 470	19 960	10 000	2 000	-87.15	-80.00
Diam. (Ind)	(ct)	0	0	0	0	16	.	.
Phosphates	(t)	418 100	306 600	266 260	370 810	290 720	-30.47	-21.60
Total	(t)	418 116	306 614	266 280	370 820	290 722		

## Trinidad and Tobago

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Nat. Gas	(Mio m <sup>3</sup> )	39 617	32 098	34 581	37 501	35 546	-10.28	-5.21
Petroleum	(t)	3 917 069	3 570 900	3 576 540	3 165 790	2 930 780	-25.18	-7.42
Total	(t)	35 610 669	29 249 300	31 241 340	33 166 590	31 367 580		

## Tunisia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	153 700	113 800	106 900	95 000	100 700	-34.48	6.00
Baryte	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Gypsum	(t)	690 000	902 394	944 245	984 031	946 892	37.23	-3.77
Phosphates	(t)	936 200	1 062 400	1 145 300	812 800	1 124 700	20.13	38.37
Salt	(t)	1 280 000	1 346 026	1 403 537	2 116 972	2 039 781	59.36	-3.65
Nat. Gas	(Mio m <sup>3</sup> )	2 529	2 236	2 094	1 950	1 780	-29.62	-8.72
Petroleum	(t)	2 584 915	2 438 315	2 065 930	2 027 230	1 859 060	-28.08	-8.30
Total	(t)	7 678 015	7 661 735	7 351 112	7 606 033	7 505 133		

## Turkey

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	4 734 200	4 353 700	6 095 400	9 546 700	8 828 800	86.49	-7.52
Chromium	(t)	1 464 330	1 070 030	1 384 700	1 146 600	1 528 700	4.40	33.32
Manganese	(t)	30 500	16 400	27 300	29 900	39 900	30.82	33.44
Molybdenum	(t)	1 335	0	900	450	0	-100.00	-100.00
Nickel	(t)	8 640	9 340	14 770	13 560	4 740	-45.14	-65.04
Titanium	(t)	4 750	4 750	6 370	6 175	6 130	29.05	-0.73
Aluminium	(t)	46 265	78 807	75 523	73 291	78 100	68.81	6.56
Antimony	(t)	1 950	2 750	4 840	3 570	3 815	95.64	6.86
Bauxite	(t)	1 050 000	989 156	1 719 144	678 138	2 255 480	114.81	232.60
Copper	(t)	108 000	107 300	85 200	87 000	73 300	-32.13	-15.75
Lead	(t)	75 900	64 300	74 990	75 990	71 480	-5.82	-5.93
Zinc	(t)	173 600	118 700	155 900	184 500	146 800	-15.44	-20.43
Gold	(kg)	27 800	24 030	23 090	27 100	39 000	40.29	43.91
Silver	(kg)	190 550	174 180	151 490	202 400	242 000	27.00	19.57
Baryte	(t)	655 943	321 239	292 447	465 138	413 811	-36.91	-11.03
Bentonite	(t)	3 134 911	1 744 912	1 481 617	1 331 955	1 533 547	-51.08	15.14
Boron	(t)	1 840 000	1 831 000	2 025 000	2 432 000	2 040 000	10.87	-16.12
Diatomite	(t)	86 656	61 722	169 584	242 789	220 757	154.75	-9.07
Feldspar	(t)	10 422 766	9 475 819	10 273 573	11 474 040	9 447 810	-9.35	-17.66
Fluorspar	(t)	6 238	10 339	20 150	6 200	14 400	130.84	132.26
Graphite	(t)	0	0	4 000	16 752	9 990	.	-40.37
Gypsum	(t)	8 638 715	10 124 221	10 223 112	10 896 476	7 489 129	-13.31	-31.27
Kaolin	(t)	1 887 302	1 283 260	1 362 799	1 515 609	1 283 776	-31.98	-15.30
Magnesite	(t)	3 335 258	3 258 445	1 694 071	1 958 847	1 496 081	-55.14	-23.62
Perlite	(t)	843 242	1 066 251	606 231	1 088 983	1 174 486	39.28	7.85
Phosphates	(t)	214 000	231 800	0	0	94 600	-55.79	.
Salt	(t)	6 257 320	5 328 256	6 673 242	6 298 705	6 961 015	11.25	10.52
Sulfur	(t)	78 600	78 000	92 500	250 000	242 600	208.65	-2.96
Talc	(t)	182 362	203 214	474 482	284 216	92 077	-49.51	-67.60
Vermiculite	(t)	425	1 050	1 618	18 183	1 370	222.35	-92.47
Zircon	(t)	1 500	500	1 200	1 950	0	-100.00	-100.00
Steam Coal	(t)	1 525 000	2 070 000	1 875 000	2 160 520	2 013 000	32.00	-6.83
Coking Coal	(t)	767 000	695 000	764 000	692 130	704 000	-8.21	1.71
Lignite	(t)	56 349 700	70 239 000	71 459 170	81 084 000	87 280 000	54.89	7.64
Nat. Gas (Mio m <sup>3</sup> )		399	382	364	436	483	21.05	10.78
Petroleum	(t)	2 515 662	2 571 928	2 551 929	2 850 828	2 984 800	18.65	4.70
Total	(t)	106 761 489	117 716 987	121 982 136	137 264 224	138 921 175		

## Turkmenistan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Bentonite	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Potash	(t)			0	15 200	11 100	.	-26.97
Salt	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Sulfur	(t)	600 000	400 000	200 000	480 000	330 000	-45.00	-31.25

Abbreviations: see Explanation

Nat. Gas (Mio m <sup>3</sup> )		71 900	69 400	70 600	70 000	71 000	-1.25	1.43
Petroleum (t)		12 723 740	11 397 000	10 950 000	10 640 000	10 420 000	-18.11	-2.07
Total (t)		70 953 740	67 427 000	67 740 000	67 245 200	67 671 100		

## Uganda

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron (t)		5 400	1 280	1 390	2 700	0	-100.00	-100.00
Niobium (t)			4	3	2	2	.	0.00
Tungsten (t)		36	41	62	188	144	300.00	-23.40
Tin (t)		135	62	66	53	15	-88.89	-71.70
Gold (kg)		13	11	4	12	0	-100.00	-100.00
Kaolin (t)		40 774	45 909	55 317	17 281	10 448	-74.38	-39.54
Vermiculite (t)		1 213	3 295	4 119	10 413	9 674	697.53	-7.10
Total (t)		47 558	50 591	60 957	30 637	20 283		

## Ukraine

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron (t)		42 817 200	40 240 600	38 767 600	38 751 300	40 451 100	-5.53	4.39
Manganese (t)		546 600	491 500	650 500	682 700	686 100	25.52	0.50
Titanium (t)		375 480	339 800	430 300	518 950	564 050	50.22	8.69
Gallium (t)		9	9	9	6	5	-44.44	-16.67
Germanium (t)		1	1	1	1	1	0.00	0.00
Bentonite (t)		220 000	200 000	113 200	178 200	124 700	-43.32	-30.02
Feldspar (t)		44 460	33 627	35 000	50 000	60 000	34.95	20.00
Graphite (t)		10 000	12 000	13 000	15 000	10 000	0.00	-33.33
Gypsum (t)		1 254 900	1 303 000	1 528 900	1 386 400	1 409 400	12.31	1.66
Kaolin (t)		1 814 786	2 335 004	2 379 636	2 091 525	1 843 561	1.59	-11.86
Salt (t)		2 136 500	1 783 530	1 815 684	2 191 619	2 092 795	-2.05	-4.51
Sulfur (t)		171 700	171 300	175 900	222 200	220 400	28.36	-0.81
Zircon (t)		30 000	29 280	27 239	21 614	18 000	-40.00	-16.72
Steam Coal (t)		23 852 700	25 121 500	18 932 900	21 648 100	19 747 200	-17.21	-8.78
Coking Coal (t)		6 063 900	6 508 800	5 233 900	4 606 300	5 783 200	-4.63	25.55
Nat. Gas (Mio m <sup>3</sup> )		19 900	20 052	20 510	20 806	20 520	3.12	-1.37
Petroleum (t)		2 533 300	2 272 100	2 169 900	2 293 300	2 453 600	-3.15	6.99
Uranium (t)		1 156	1 185	986	1 390	944	-18.34	-32.09
Total (t)		97 792 692	96 884 836	88 682 655	91 303 405	91 881 056		

**Abbreviations:** see Explanation

## United Arab Emirates

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Aluminium	(t)	2 397 000	2 471 000	2 600 000	2 640 000	2 579 000	7.59	-2.31
Sulfur	(t)	4 540 000	4 800 000	4 600 000	5 300 000	6 000 000	32.16	13.21
Nat. Gas	(Mio m <sup>3</sup> )	58 680	60 315	62 361	61 375	62 531	6.56	1.88
Petroleum	(t)	176 062 450	182 379 600	176 224 330	176 686 680	180 249 910	2.38	2.02
Total	(t)	229 943 450	237 902 600	233 313 130	233 726 680	238 853 710		

## United Kingdom

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Tungsten	(t)	155	732	1 086	890	0	-100.00	-100.00
Aluminium	(t)	48 000	46 000	46 500	44 400	39 400	-17.92	-11.26
Lead	(t)	0	100	100	100	200	.	100.00
Tin	(t)	16	144	255	220	0	-100.00	-100.00
Gold	(kg)	0	6	0	0	50	.	.
Silver	(kg)	0	14	0	0	130	.	.
Baryte	(t)	50 000	56 000	55 000	55 000	55 000	10.00	0.00
Fluorspar	(t)	17 000	12 000	11 000	11 000	11 000	-35.29	0.00
Gypsum	(t)	1 800 000	1 600 000	1 300 000	1 400 000	1 400 000	-22.22	0.00
Kaolin	(t)	1 014 000	940 000	970 000	996 000	996 000	-1.78	0.00
Potash	(t)	653 400	482 800	297 400	291 100	84 000	-87.14	-71.14
Salt	(t)	4 700 000	4 700 000	4 700 000	4 700 000	4 700 000	0.00	0.00
Sulfur	(t)	135 000	133 000	133 000	129 000	130 000	-3.70	0.78
Talc	(t)	5 430	2 997	3 218	1 640	1 600	-70.53	-2.44
Steam Coal	(t)	8 526 000	3 035 700	2 267 900	1 873 230	1 476 950	-82.68	-21.15
Coking Coal	(t)	72 000	1 142 100	773 160	706 830	689 450	857.57	-2.46
Nat. Gas	(Mio m <sup>3</sup> )	40 466	41 607	42 094	37 847	34 555	-14.61	-8.70
Petroleum	(t)	45 698 100	47 872 100	47 049 300	51 233 570	52 185 520	14.20	1.86
Total	(t)	95 091 901	93 309 273	91 283 119	91 720 580	89 413 120		

## United States

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	29 043 000	26 334 000	30 177 000	31 185 000	29 547 000	1.74	-5.25
Cobalt	(t)	760	690	640	480	500	-34.21	4.17
Molybdenum	(t)	47 400	36 200	40 700	41 400	43 600	-8.02	5.31
Nickel	(t)	27 200	24 100	22 100	17 600	13 500	-50.37	-23.30
Titanium	(t)	110 000	55 000	66 000	100 000	100 000	-9.09	0.00
Vanadium	(t)				0	460	.	.
Aluminium	(t)	1 586 518	818 430	740 884	896 652	1 126 032	-29.02	25.58
Bauxite	(t)	483 700	272 900	352 100	399 700	154 900	-67.98	-61.25

**Abbreviations:** see Explanation

Beryllium	(t)	5 100	3 870	3 760	4 170	4 050	-20.59	-2.88
Cadmium	(t)	500	400	400	300	250	-50.00	-16.67
Copper	(t)	1 380 000	1 430 000	1 260 000	1 220 000	1 260 000	-8.70	3.28
Germanium	(t)	3	3	2	2	2	-33.33	0.00
Lead	(t)	370 000	346 000	310 000	280 000	274 000	-25.95	-2.14
Lithium	(t)	1 820	1 800	1 420	1 500	1 400	-23.08	-6.67
Mercury	(t)	15	15	15	15	15	0.00	0.00
Rare Earths	(t)	3 678	0	0	14 000	28 000	661.28	100.00
Rhenium	(kg)	7 900	8 440	8 200	8 220	8 360	5.82	1.70
Selenium	(t)	90	122	116	152	160	77.78	5.26
Tellurium	(t)	50	50	0	0	50	0.00	.
Zinc	(t)	824 700	804 800	773 800	824 000	753 000	-8.69	-8.62
Gold	(kg)	213 808	228 267	236 778	226 000	200 000	-6.46	-11.50
Palladium	(kg)	12 532	13 070	13 600	14 267	14 323	14.29	0.39
Platinum	(kg)	3 667	3 891	3 980	4 165	4 152	13.23	-0.31
Rhodium	(kg)	96	103	100	100	100	4.17	0.00
Silver	(kg)	1 090 000	1 153 000	1 030 000	934 000	977 000	-10.37	4.60
Baryte	(t)	433 000	232 000	334 000	366 000	414 000	-4.39	13.11
Bentonite	(t)	4 080 000	4 000 000	4 430 000	4 560 000	4 490 000	10.05	-1.54
Boron	(t)	1 218 000	1 134 000	1 075 000	1 075 000	1 030 000	-15.44	-4.19
Diatomite	(t)	832 000	686 000	768 000	957 000	768 000	-7.69	-19.75
Feldspar	(t)	520 000	470 000	440 000	550 000	450 000	-13.46	-18.18
Gypsum	(t)	18 800 000	19 800 000	20 700 000	21 100 000	21 200 000	12.77	0.47
Kaolin	(t)	5 810 000	5 290 000	5 450 000	5 350 000	5 060 000	-12.91	-5.42
Perlite	(t)	501 000	521 000	570 000	494 000	526 000	4.99	6.48
Phosphates	(t)	7 710 000	7 615 000	7 840 000	7 250 000	6 547 000	-15.08	-9.70
Potash	(t)	740 000	510 000	480 000	520 000	510 000	-31.08	-1.92
Salt	(t)	45 100 000	41 700 000	39 600 000	42 000 000	42 000 000	-6.87	0.00
Sulfur	(t)	9 540 000	9 740 000	9 630 000	9 670 000	8 710 000	-8.70	-9.93
Talc	(t)	615 000	578 000	610 000	648 000	578 000	-6.02	-10.80
Vermiculite	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Zircon	(t)	60 000	50 000	45 000	100 000	100 000	66.67	0.00
Steam Coal	(t)	689 985 000	543 539 000	573 904 900	562 012 600	521 540 300	-24.41	-7.20
Coking Coal	(t)	57 521 000	50 136 000	67 388 600	71 948 200	64 168 100	11.56	-10.81
Lignite	(t)	64 281 500	64 692 400	61 394 500	51 744 500	48 255 700	-24.93	-6.74
Nat. Gas (Mio m <sup>3</sup> )		766 410	753 010	774 200	871 440	961 860	25.50	10.38
Petroleum	(t)	606 697 400	585 484 500	620 929 300	724 163 400	806 659 400	32.96	11.39
Uranium	(t)	1 516	1 323	1 108	657	79	-94.79	-87.98
Total	(t)	2 161 559 279	1 968 817 009	2 068 800 638	2 236 747 514	2 335 902 701		

## Uruguay

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	11 520	1 040	1 010	2 520	2 510	-78.21	-0.40
Gold	(kg)	1 413	999	1 055	393	0	-100.00	-100.00
Bentonite	(t)	4 252	6 650	6 640	7 760	6 730	58.28	-13.27
Feldspar	(t)	200	460	370	380	0	-100.00	-100.00
Talc	(t)	585	290	100	420	50	-91.45	-88.10
Total	(t)	16 558	8 441	8 121	11 080	9 290		



## Uzbekistan

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Molybdenum	(t)	570	620	700	750	800	40.35	6.67
Tungsten	(t)	110	80	103	97	100	-9.09	3.09
Bismuth	(t)	2	0	0	0	2	0.00	.
Cadmium	(t)	707	290	306	237	250	-64.64	5.49
Copper	(t)	100 000	100 000	100 000	117 000	147 000	47.00	25.64
Lead	(t)	3 000	2 000	2 000	5 000	20 000	566.67	300.00
Rhenium	(kg)	1 000	660	530	500	800	-20.00	60.00
Selenium	(t)	20	10	25	28	30	50.00	7.14
Tellurium	(t)	3	3	3	2	2	-33.33	0.00
Zinc	(t)	50 000	50 000	55 000	56 000	45 000	-10.00	-19.64
Gold	(kg)	103 000	100 000	89 900	88 500	93 000	-9.71	5.08
Palladium	(kg)				0	28	.	.
Silver	(kg)	200 000	231 000	232 300	161 700	172 000	-14.00	6.37
Kaolin	(t)	196 350	323 680	269 906	291 814	377 184	92.10	29.25
Phosphates	(t)	166 800	170 000	170 000	150 000	150 000	-10.07	0.00
Potash	(t)	103 000	83 000	85 000	92 300	70 150	-31.89	-24.00
Steam Coal	(t)	412 000	160 000	160 000	160 000	245 168	-40.49	53.23
Lignite	(t)	3 988 000	3 717 400	3 878 670	4 014 400	3 807 600	-4.52	-5.15
Nat. Gas (Mio m <sup>3</sup> )		62 196	56 136	56 417	59 842	59 460	-4.40	-0.64
Petroleum	(t)	2 728 100	2 615 400	2 766 600	2 890 915	3 010 894	10.37	4.15
Uranium	(t)	3 806	3 921	4 009	4 062	4 127	8.43	1.60
Total	(t)	57 509 572	52 135 536	52 626 245	55 656 457	55 446 573		

## Venezuela

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	7 615 100	5 070 000	4 615 000	2 017 500	2 062 800	-72.91	2.25
Nickel	(t)	3 707	0	0	0	0	-100.00	.
Aluminium	(t)	119 511	145 000	136 000	64 700	10 000	-91.63	-84.54
Bauxite	(t)	991 810	340 000	242 000	92 000	50 000	-94.96	-45.65
Gold	(kg)	558	800	8 100	9 100	9 100	1 530.82	0.00
Diam. (Gem)	(ct)			0	800	0	.	-100.00
Diam. (Ind)	(ct)			0	1 200	0	.	-100.00
Feldspar	(t)	75 527	58 000	30 340	30 000	30 000	-60.28	0.00
Phosphates	(t)	7 370	42 900	19 320	16 800	21 500	191.72	27.98
Salt	(t)	642 000	640 000	600 000	600 000	600 000	-6.54	0.00
Sulfur	(t)	700 000	700 000	700 000	700 000	500 000	-28.57	-28.57

Abbreviations: see Explanation

Steam Coal	(t)	801 697	210 000	370 000	100 000	379 907	-52.61	279.91
Nat. Gas	(Mio m <sup>3</sup> )	36 070	37 240	38 605	31 619	26 456	-26.65	-16.33
Oil Sands*	(t)	29 980 000	29 000 000	25 000 000	20 000 000	9 960 000	-66.78	-50.20
Petroleum	(t)	135 364 100	121 033 000	107 584 000	75 628 110	46 625 600	-65.56	-38.35
Total	(t)	175 176 823	158 030 901	145 180 668	104 544 319	71 444 616		

\*Oil Sands as part of Petroleum

## Vietnam

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Iron	(t)	1 614 600	1 833 600	3 309 000	3 352 800	3 354 600	107.77	0.05
Cobalt	(t)	277	134	0	0	0	-100.00	.
Manganese	(t)	50 000	29 000	28 650	29 400	32 000	-36.00	8.84
Nickel	(t)	8 607	4 272	0	0	0	-100.00	.
Titanium	(t)	123 600	109 620	117 160	122 250	140 970	14.05	15.31
Tungsten	(t)	4 063	5 041	5 141	4 881	4 816	18.53	-1.33
Antimony	(t)	220	230	230	245	305	38.64	24.49
Bauxite	(t)	1 436 500	1 606 100	2 565 000	3 569 700	3 700 000	157.57	3.65
Bismuth	(t)	3 000	2 013	2 403	2 639	917	-69.43	-65.25
Copper	(t)	24 420	22 300	21 100	25 300	29 620	21.29	17.08
Lead	(t)	1 900	800	4 500	14 500	12 500	557.89	-13.79
Tin	(t)	4 399	4 468	4 950	5 470	6 031	37.10	10.26
Zinc	(t)	15 000	12 000	12 000	12 000	13 000	-13.33	8.33
Gold	(kg)	539	584	557	570	540	0.19	-5.26
Baryte	(t)	140 000	80 000	70 000	50 000	70 000	-50.00	40.00
Fluorspar	(t)	214 000	218 878	234 905	238 700	238 003	11.22	-0.29
Graphite	(t)			0	1 500	3 500	.	133.33
Kaolin	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Phosphates	(t)	877 020	942 750	1 376 400	1 299 660	1 395 480	59.12	7.37
Salt	(t)	1 061 000	982 000	648 500	996 500	912 900	-13.96	-8.39
Zircon	(t)	8 000	9 300	5 500	10 500	6 600	-17.50	-37.14
Steam Coal	(t)	41 664 000	38 735 000	38 409 000	42 384 000	46 387 000	11.34	9.44
Nat. Gas	(Mio m <sup>3</sup> )	10 660	10 610	9 866	10 010	10 210	-4.22	2.00
Petroleum	(t)	18 746 000	17 230 000	15 518 000	13 969 000	13 090 000	-30.17	-6.29
Total	(t)	74 624 607	70 415 507	70 325 240	74 197 046	77 666 243		

## Yemen

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Gypsum	(t)	100 000	100 000	50 000	50 000	20 000	-80.00	-60.00
Salt	(t)	70 000	50 000	50 000	50 000	50 000	-28.57	0.00
Nat. Gas	(Mio m <sup>3</sup> )	2 850	500	300	100	100	-96.49	0.00
Petroleum	(t)	2 367 000	991 000	1 290 600	1 732 300	2 387 000	0.84	37.79
Total	(t)	4 817 000	1 541 000	1 630 600	1 912 300	2 537 000		

**Abbreviations:** see Explanation

## Zambia

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Cobalt	(t)	2 979	5 276	2 649	1 766	1 271	-57.33	-28.03
Manganese	(t)	5 000	27 500	39 900	37 800	11 970	139.40	-68.33
Nickel	(t)				0	1 000	.	.
Beryllium	(t)	7	5	4	7	7	0.00	0.00
Copper	(t)	711 515	774 290	799 329	857 847	789 942	11.02	-7.92
Gold	(kg)	4 238	4 610	4 373	4 044	4 522	6.70	11.82
Sulfur	(t)	300 000	363 000	679 500	947 800	960 200	220.07	1.31
Steam Coal	(t)	103 439	126 050	208 608	344 717	270 013	161.04	-21.67
Total	(t)	1 122 944	1 296 126	1 729 994	2 189 941	2 034 408		

## Zimbabwe

		2015	2016	2017	2018	2019	Change 15/19	Change 18/19
Chromium	(t)	93 750	128 220	309 980	402 600	720 330	668.35	78.92
Cobalt	(t)	355	409	445	403	402	13.24	-0.25
Nickel	(t)	16 109	17 743	16 594	17 850	16 918	5.02	-5.22
Tungsten	(t)		13	3	16	37	.	131.25
Copper	(t)	8 218	9 101	8 839	9 077	8 731	6.24	-3.81
Lithium	(t)	1 405	2 030	1 850	3 160	2 650	88.61	-16.14
Gold	(kg)	20 023	22 747	26 495	35 054	29 429	46.98	-16.05
Palladium	(kg)	10 055	12 222	11 822	12 094	11 640	15.76	-3.75
Platinum	(kg)	12 564	15 110	14 257	14 703	13 857	10.29	-5.75
Rhodium	(kg)	1 128	1 322	1 283	1 334	1 224	8.51	-8.25
Diam. (Gem)	(ct)	1 008 000	639 920	752 360	975 730	635 760	-36.93	-34.84
Diam. (Ind)	(ct)	2 352 000	1 493 140	1 755 500	2 276 690	1 483 430	-36.93	-34.84
Graphite	(t)	6 362	5 622	1 577	0	0	-100.00	.
Phosphates	(t)	7 700	8 500	18 000	15 400	8 100	5.19	-47.40
Vermiculite	(t)	30 868	29 312	23 302	33 161	26 200	-15.12	-20.99
Steam Coal	(t)	3 878 000	1 219 000	2 682 650	3 049 730	2 486 960	-35.87	-18.45
Coking Coal	(t)	458 000	417 000	245 549	297 770	242 960	-46.95	-18.41
Total	(t)	4 500 812	1 837 001	3 308 842	3 829 231	3 513 344		

**Abbreviations:** see Explanation

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