

# World Mining Data 2023

Iron and Ferro-Alloy Metals

Non-Ferrous Metals

Precious Metals

Industrial Minerals

Mineral Fuels



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Industrial Minerals

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Volume 38

C. Reichl, M. Schatz

Minerals Production

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This publication is a statistical work. Due to the nature of this publication, only chapters 1-5 are accessible at this time. We are currently striving to expand the usability and accessibility of our publications. The graphic double page summarizes the major developments in global mining production based on data from this publication. The statistical data and underlying figures are available in Excel format and can be accessed on our homepage. If you are interested or if you would like to share any feedback on this brochure, please contact us at: [wmd@bmf.gv.at](mailto:wmd@bmf.gv.at).

## Preface



Dr. Magnus Brunner, LL.M.  
Federal Minister

Raw materials are the backbone of the economy. The sufficient supply of mineral raw materials under fair market conditions is essential for a sustainable and well-functioning economy. Although the geological availability of minerals is relatively high, occurring disruptions can lead to a shortfall of mineral resources. Smouldering geopolitical crises and the war in Ukraine relentlessly demonstrate our vulnerability in a globalized world with its complex dependencies and widely ramified value chains.

Raw materials are necessary to secure our future viability and to solve the grand challenges in the fields of climate and energy, health, nutrition, mobility, digitalisation and security. To foster the security of supply of mineral raw materials fair trade, innovative solutions along the entire value chain and the incorporation of circular economy are necessary. Additionally, domestic production boosts our independence and strategic autonomy. A holistic and cross-policy approach is needed to meet these major challenges.

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 as a valuable basis for commodity forecasts of renowned national and international institutions for 38 years. In this way, the Austrian Federal Ministry of Finance 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.

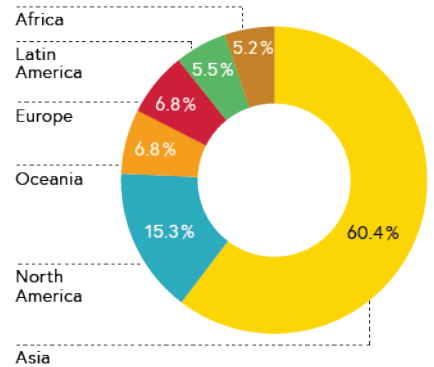
Dr. Magnus Brunner

Federal Minister of Finance

# Minerals – Backbone of the economy

Major developments in global mining production based on World Mining Data 2023

Total production 2021 by continents



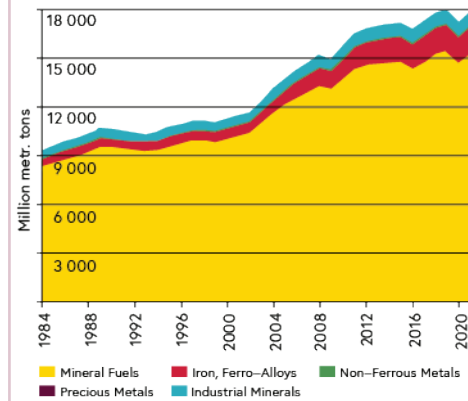
World mining production

**2021**  
17.9 Billion metric tons

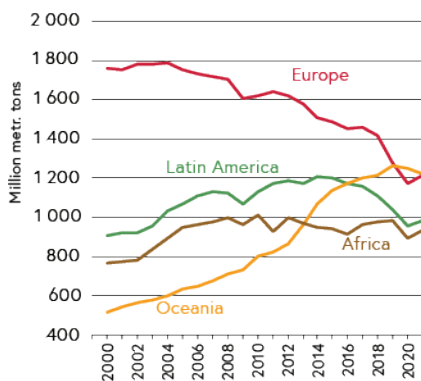
**2000**  
11.3 Billion metric tons

**1985**  
9.6 Billion metric tons

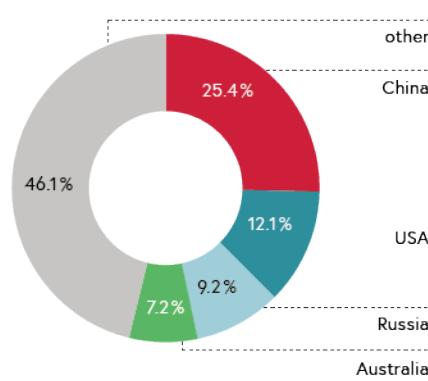
Total mining production 1984–2021



Minerals production: Oceania surpassed Latin America in 2016 and Europe in 2020



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

**97.2% to 2.8%**

Growth rate of Iron Ore production 2000/2021 (2017/2021)

**169.9% (7.3%)**

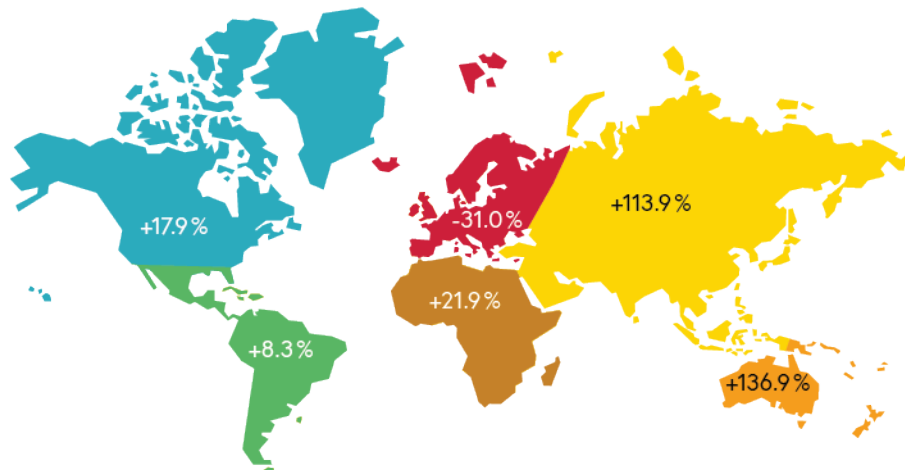
Growth rate of Nickel production 2000/2021 (2017/2021)

**149.3% (13.5%)**

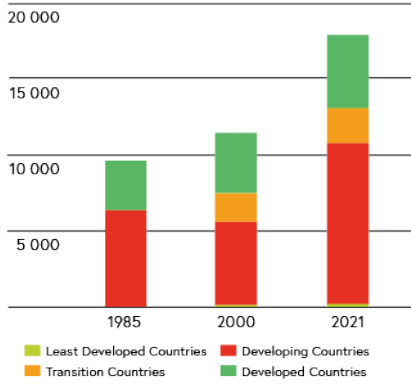
China is world's largest producer of 29 different commodities:

- 4 Iron and Ferro-Alloy Metals: Mo, Ti, W, V
- 15 Non-Ferrous Metals: Al, Sb, As, Bi, Cd, Ga, Ge, In, Pb, Hg, REE, Se, Te, Sn, Zn
- 1 Precious Metal: Au
- 7 Industrial Minerals: Fluorspar, Graphite, Gypsum, Magnesite, Phosphate Rock, Salt, Sulfur
- 2 Mineral Fuels: Steam Coal, Coking Coal

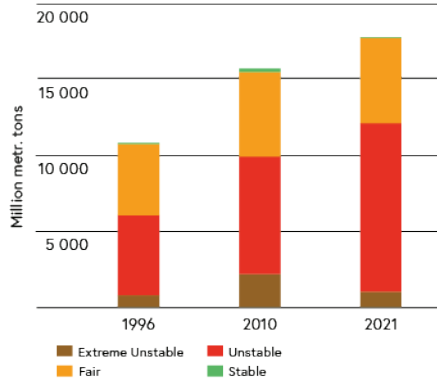
Δ 2000/2021 – declining production rates since 2000 only in Europe



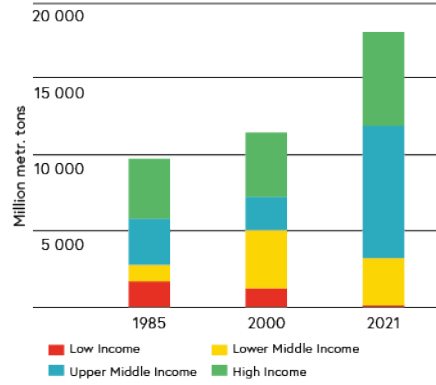
### Development status of producer countries



### 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%**

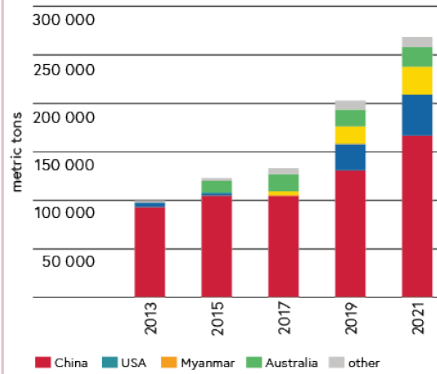
Growth rate of Non-Ferrous Metals production 2000/2021 (2017/2021)

**115.3% (3.0%)**

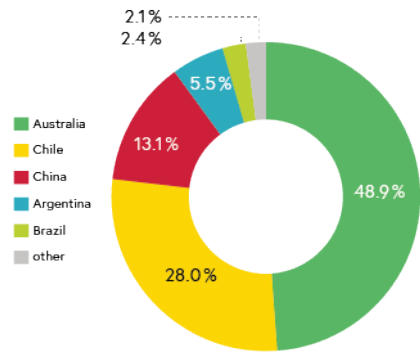
Growth rate of Copper production 2000/2021 (2017/2021)

**66.2% (6.6%)**

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



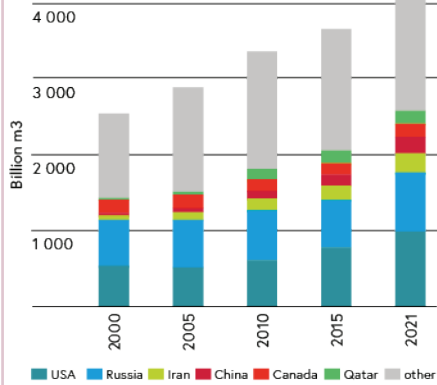
### Largest 5 producer countries share 97.9% of Lithium production



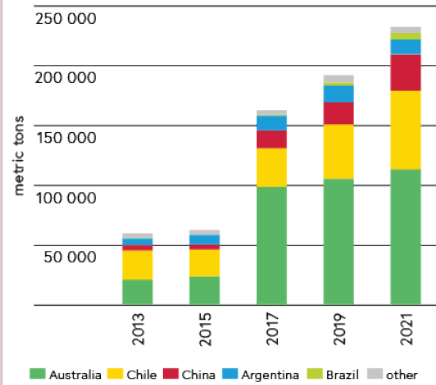
### Big changes

	Δ 2000/2021	Δ 2017/2021
Lithium	753.5%	42.9%
Gallium	734.6%	40.0%
Tellurium	278.4%	19.7%
Antimony	-18.8%	-36.9%
Lignite	-20.4%	-16.3%
Diam. (Ind)	-23.2%	-38.3%

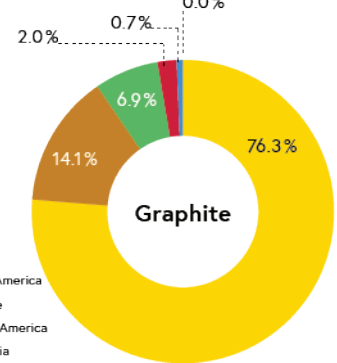
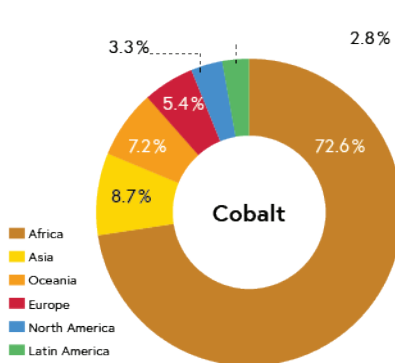
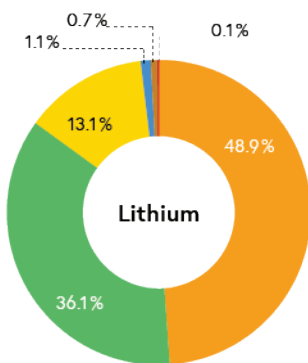
### Steady increase in Natural Gas production



### Strong increase in Lithium production (Li<sub>2</sub>O-Content)



### Battery Materials: Mine production 2021 share by continents





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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, Phosphate Rock (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. Natural Gas Liquids), 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
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, Germany, 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, Albania	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, 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 (WNA)
- e National statistics
- f Metallgesellschaft (until 1998)
- m OECD and ECE
- n Others (Company reports etc.)
- o Oil & Gas Journal
- p International Energy Agency (IEA)
- q International Consultative Group (ICG)
- 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	concentrate	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 (Industrial)		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
Phosphate Rock	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	concentrate	metr. t



## Mineral Fuels:

Steam coal (incl. Anthracite, bituminous and sub-bituminous Coal)		metr. t
Coking Coal		metr. t
Lignite		metr. t
Natural Gas	marketed Prod.	Mio m <sup>3</sup>
Petroleum (incl. Nat. Gas Liquids)	gross Prod.	metr. t
Oil Sands	gross Prod.	metr. t
Oil Shales		metr. t
Uranium	U <sub>3</sub> O <sub>8</sub>	metr. t

## Commodity Prices:

Sources of annual averages:

- Metal Bulletin
- Industrial Minerals
- BGR-Rohstoffdatenbank, 2022; 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 and Korea South 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), 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), 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 (2021)

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

Europe: Albania, Belarus, Bosnia-Herzegovina, Kosovo, North Macedonia, Moldova, Montenegro, Russia, Serbia, 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 - Centrally Planned Asia & China: Cambodia, China, Korea North, Laos, Mongolia, 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, 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: Bermuda, Canada, 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, Taiwan, 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 memberships of various countries in different economic blocks or other cartel-like associations were taken into consideration.

### 4.3 Economic Blocks or Cartel-like Associations

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

**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 (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: 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

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

Australia (1971), Austria (1961), Belgium (1961), Canada (1961), Chile (2010), Colombia (2020), Costa Rica (2021), 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

### **USMCA: United States-Mexico-Canada Agreement (former NAFTA)**

Canada, Mexico, United States of America

USMCA was established on July 1, 2020 (NAFTA: January 1, 1994 - June 30, 2020).

## 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 in USD

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.

Year	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
Year	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
Year	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
Year	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
L	≤ 1 045	≤ 1 025	≤ 1 005	≤ 995	≤ 1 025	≤ 1 035	≤ 1 045	≤ 1 085		
LM	≤ 4 125	≤ 4 035	≤ 3 955	≤ 3 895	≤ 3 995	≤ 4 045	≤ 4 095	≤ 4 255		
UM	≤ 12 735	≤ 12 475	≤ 12 235	≤ 12 055	≤ 12 375	≤ 12 535	≤ 12 695	≤ 13 205		
H	> 12 735	> 12 475	> 12 235	> 12 055	> 12 375	> 12 535	> 12 695	> 13 205		

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 figures have been made.

Although data processing has been done automatically, the possibility of human error at the data entry stage exists. Since the database 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, 2023**

Data received later than February 28, 2023 will be implemented in the next edition of this report.

Please send any remarks to:

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World Mining Data is also available on:

<https://www.bmf.gv.at/en/topics/mining/mineral-resources-policy/wmd.html>

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

**Disclaimer:**

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

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

# Charts

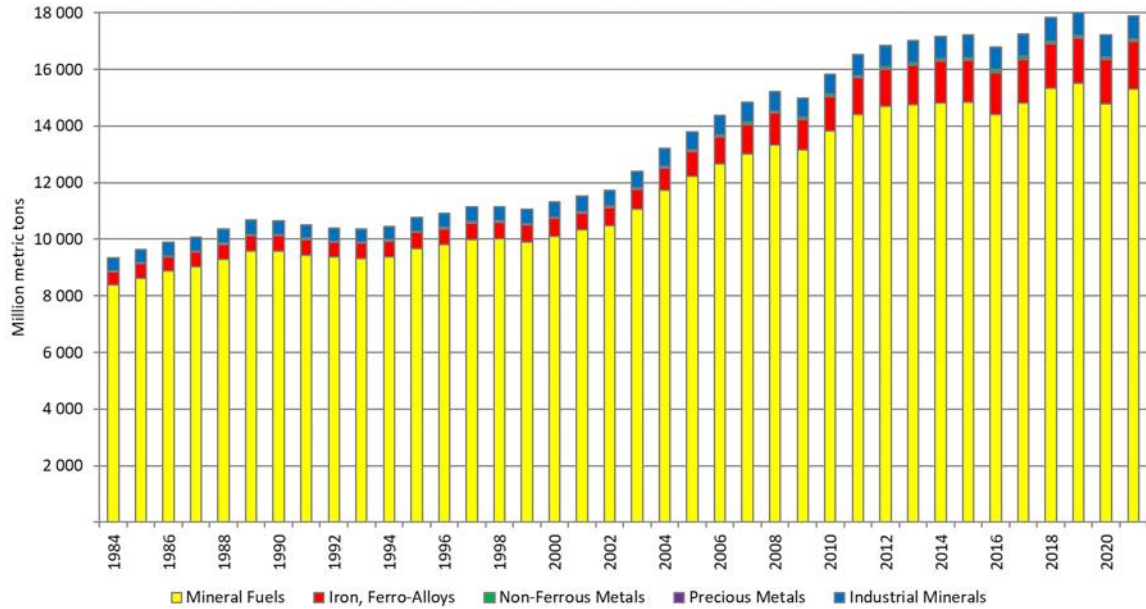


Fig. 1: World mining production 1984 - 2021 by groups of minerals (without construction minerals, in Million metr. t)

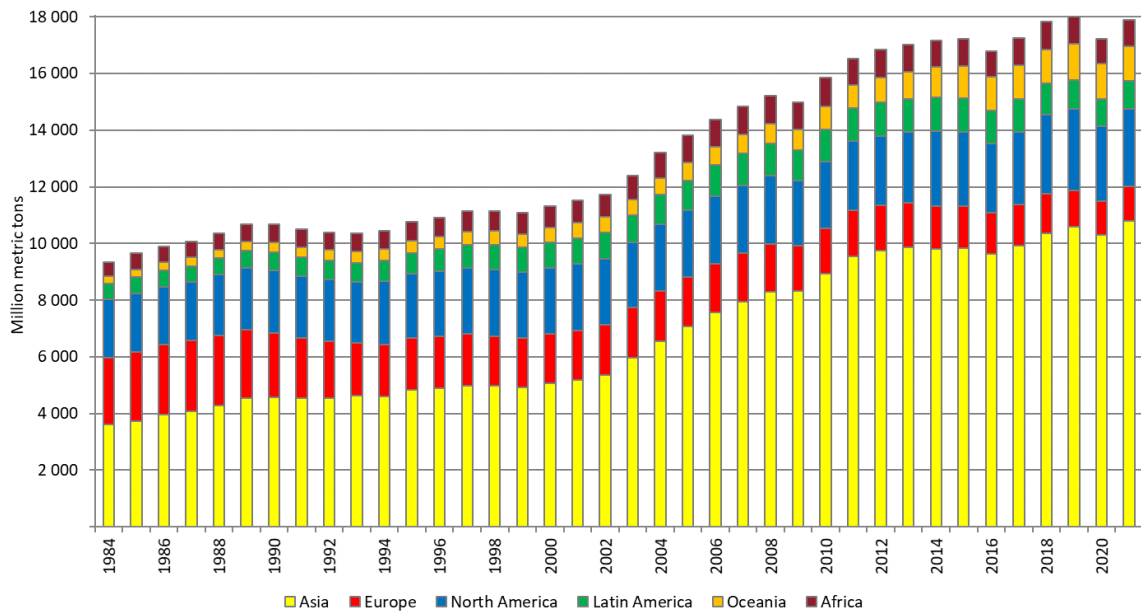


Fig. 2: World mining production 1984 - 2021 by continents (without construction minerals, in Million metr. t)

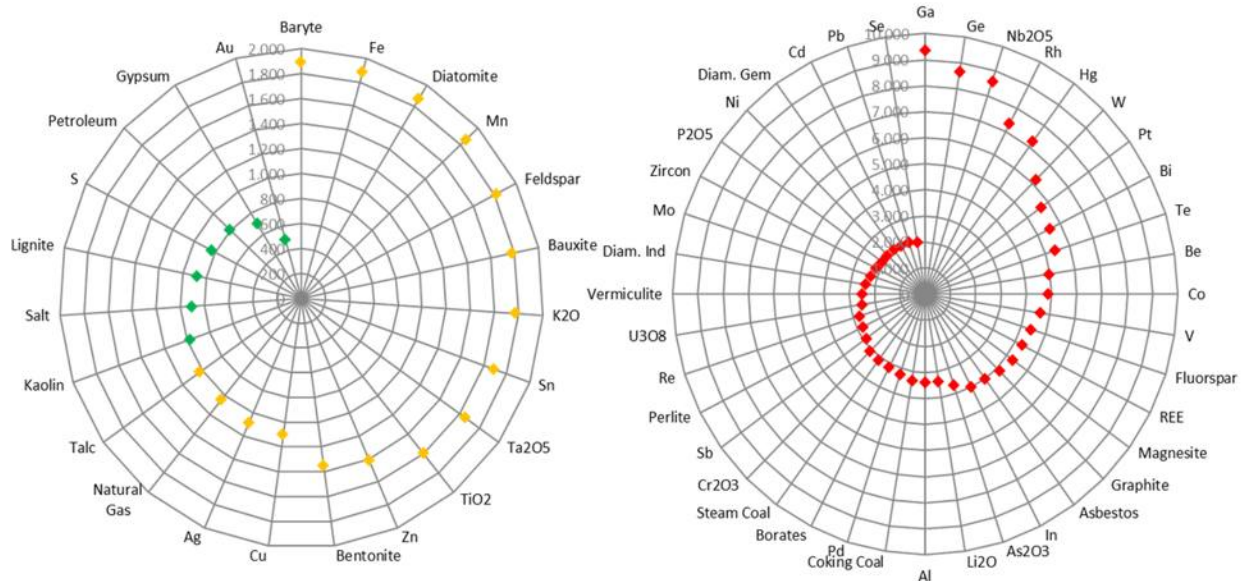


Fig. 3: Concentration of Producer Countries, Herfindahl-Hirschman Indices in 2021  
 left figure: HHI < 2 000 (Country Concentration  $\diamond$  low,  $\diamond$  moderate)  
 right figure: HHI > 2 000 (Country Concentration  $\diamond$  high)

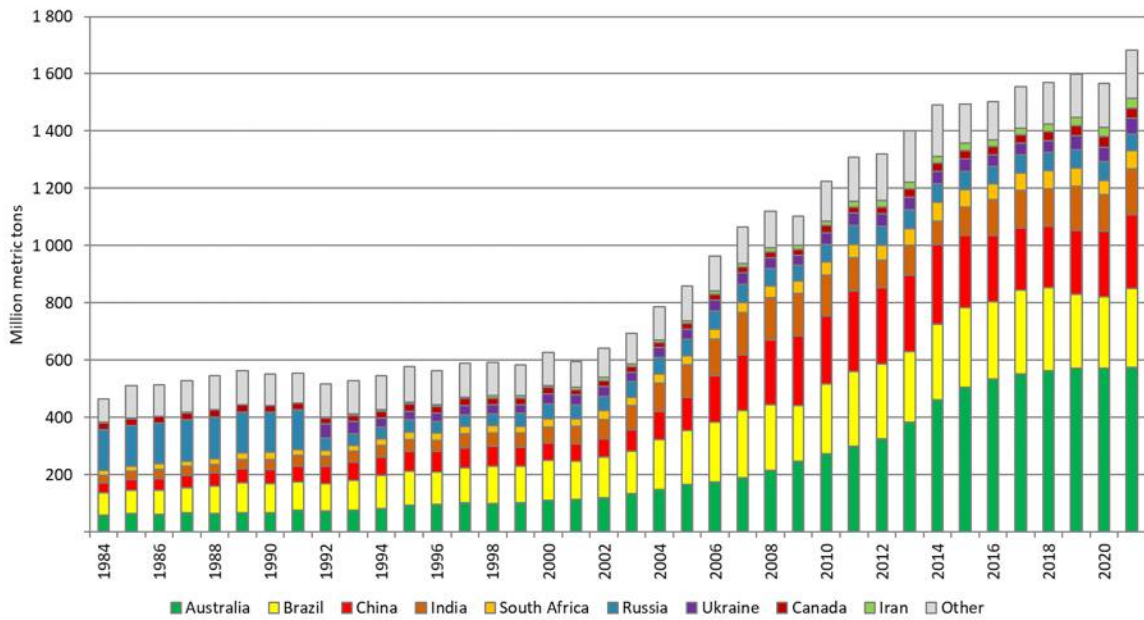


Fig. 4: World mining production 1984 - 2021 by groups of minerals: Iron and Ferro-Alloy Metals by largest producer countries (in Million metr. t)

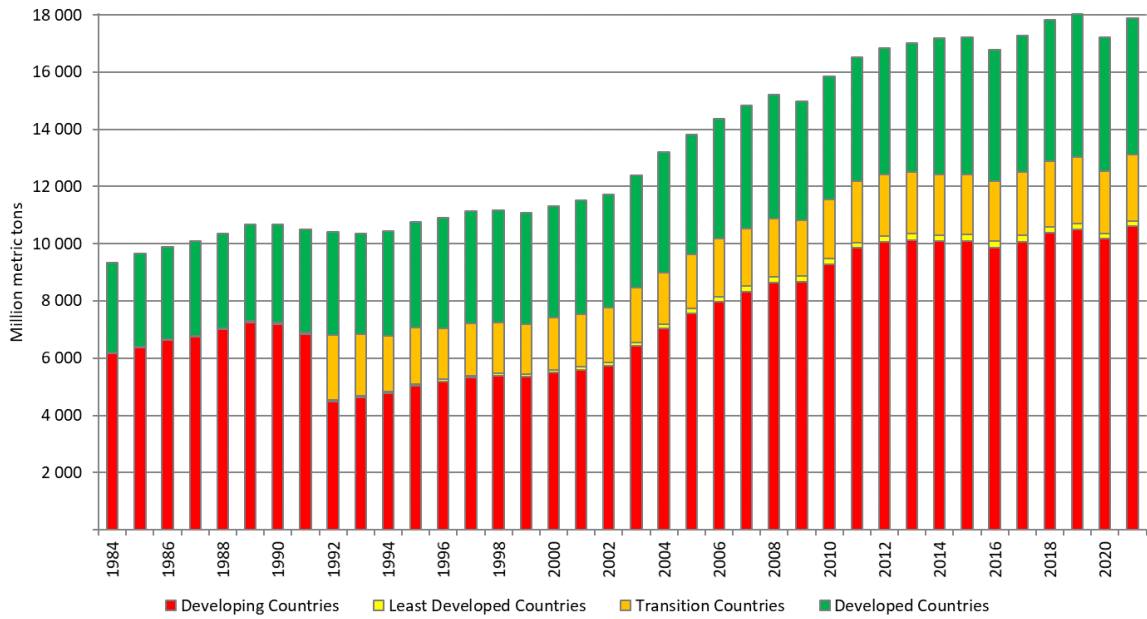


Fig. 5: World mining production 1984 - 2021 by development status of the producer countries (without construction minerals, in Million metr. t)

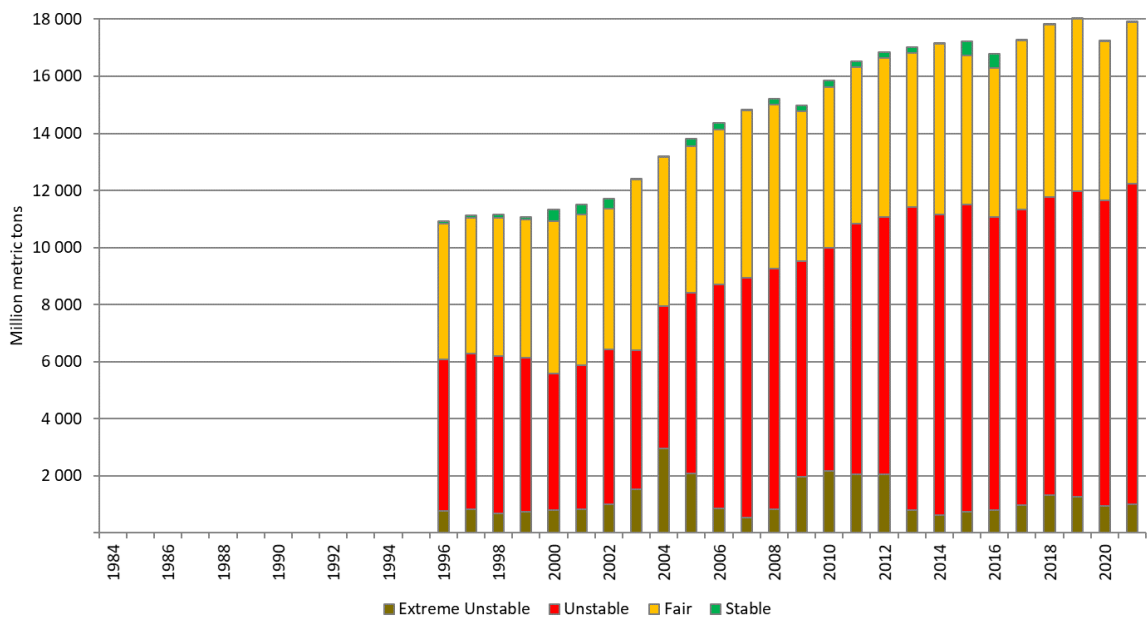


Fig. 6: World mining production 1984 - 2021 by political stability of the producer countries (without construction minerals, in Million metr. t)

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

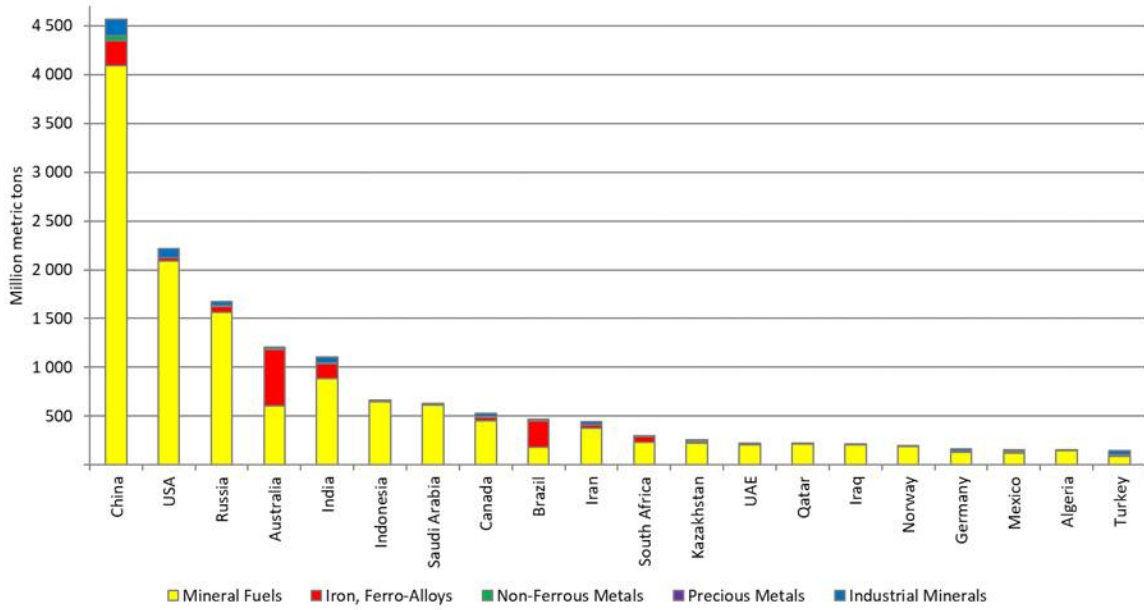


Fig. 7: 20 largest producer countries 2021 (without construction minerals, in Million metr. t)

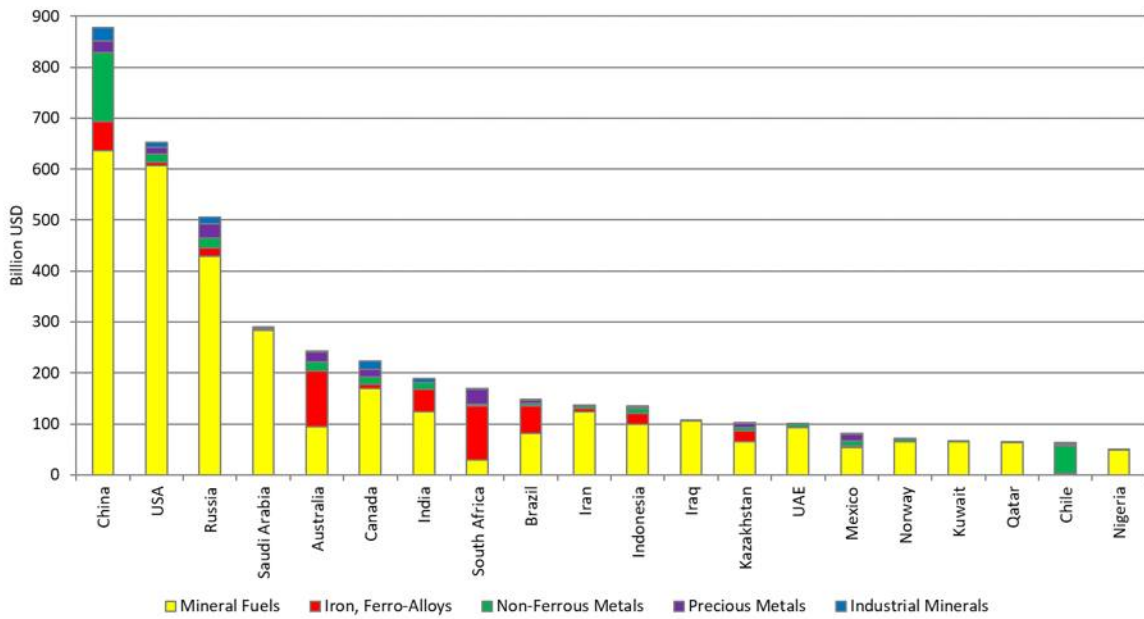


Fig. 8: 20 largest producer countries 2021 (without construction minerals, in Billion USD)

# 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	3 621 311 795	3 739 473 268	3 967 356 364	4 077 926 753	4 279 286 059
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>9 332 929 816</b>	<b>9 645 374 131</b>	<b>9 894 038 868</b>	<b>10 079 913 199</b>	<b>10 367 011 197</b>
	1989	1990	1991	1992	1993
Africa	611 700 950	629 191 234	645 653 677	631 548 263	641 442 391
Asia	4 535 660 970	4 575 870 072	4 532 820 491	4 552 094 570	4 617 161 822
Europe	2 424 486 765	2 260 313 985	2 123 060 349	1 988 491 302	1 874 985 573
Latin America	613 513 369	646 514 806	663 144 692	670 905 309	686 940 025
North America	2 164 117 026	2 203 364 391	2 184 274 275	2 181 844 083	2 143 538 949
Oceania	332 116 920	347 898 842	362 385 522	374 707 983	386 115 067
<b>Total</b>	<b>10 681 596 000</b>	<b>10 663 153 330</b>	<b>10 511 339 006</b>	<b>10 399 591 510</b>	<b>10 350 183 827</b>
	1994	1995	1996	1997	1998
Africa	652 593 419	686 972 850	680 883 877	713 277 901	720 075 978
Asia	4 593 040 086	4 820 268 566	4 880 406 639	4 969 566 025	4 967 282 473
Europe	1 826 668 411	1 833 548 690	1 832 372 740	1 827 942 589	1 747 147 595
Latin America	720 466 025	746 479 446	777 575 760	814 134 583	887 199 743
North America	2 262 153 843	2 273 227 243	2 316 670 697	2 351 638 894	2 356 329 541
Oceania	392 630 850	415 408 333	429 772 081	462 884 590	477 138 947
<b>Total</b>	<b>10 447 552 634</b>	<b>10 775 905 128</b>	<b>10 917 681 794</b>	<b>11 139 444 582</b>	<b>11 155 174 277</b>



	1999	2000	2001	2002	2003
Africa	732 165 377	765 733 161	773 456 477	781 715 961	833 951 331
Asia	4 929 839 618	5 051 128 647	5 170 247 983	5 355 794 087	5 970 984 174
Europe	1 721 201 321	1 755 973 081	1 753 407 523	1 777 355 518	1 778 623 013
Latin America	879 241 004	908 631 865	916 258 957	922 162 854	955 349 598
North America	2 327 927 155	2 324 941 284	2 357 596 851	2 322 570 961	2 283 577 245
Oceania	484 477 447	515 493 083	542 815 415	560 044 299	573 950 955
<b>Total</b>	<b>11 074 851 922</b>	<b>11 321 901 121</b>	<b>11 513 783 206</b>	<b>11 719 643 680</b>	<b>12 396 436 316</b>
	2004	2005	2006	2007	2008
Africa	890 333 467	944 557 106	957 844 493	975 719 824	996 725 521
Asia	6 538 112 535	7 069 404 045	7 554 008 909	7 955 646 173	8 290 139 389
Europe	1 788 545 139	1 749 879 233	1 728 775 009	1 717 633 543	1 700 370 530
Latin America	1 033 685 411	1 068 298 139	1 105 968 273	1 131 860 494	1 122 207 082
North America	2 355 162 356	2 343 744 813	2 381 080 452	2 371 567 898	2 403 886 981
Oceania	597 642 134	629 117 525	643 672 822	675 887 993	710 182 569
<b>Total</b>	<b>13 203 481 042</b>	<b>13 805 000 861</b>	<b>14 371 349 958</b>	<b>14 828 315 925</b>	<b>15 223 512 072</b>
	2009	2010	2011	2012	2013
Africa	963 712 118	1 009 671 531	929 029 242	995 271 415	965 281 735
Asia	8 324 937 462	8 921 790 786	9 530 704 600	9 736 632 318	9 858 894 781
Europe	1 606 084 844	1 621 739 125	1 638 512 869	1 618 131 898	1 574 048 804
Latin America	1 065 789 961	1 128 727 828	1 170 779 425	1 184 530 000	1 171 457 846
North America	2 295 422 815	2 355 466 902	2 432 757 654	2 440 184 070	2 494 737 892
Oceania	730 666 086	801 950 738	818 091 867	866 313 912	960 974 497
<b>Total</b>	<b>14 986 613 286</b>	<b>15 839 346 910</b>	<b>16 519 875 657</b>	<b>16 841 063 613</b>	<b>17 025 395 555</b>
	2014	2015	2016	2017	2018
Africa	947 167 188	940 173 705	914 921 521	962 927 752	975 823 188
Asia	9 803 335 402	9 820 601 800	9 639 168 360	9 907 381 544	10 350 201 462
Europe	1 509 058 627	1 487 186 048	1 449 203 754	1 458 765 377	1 417 652 999
Latin America	1 203 104 664	1 196 135 887	1 171 648 978	1 159 197 977	1 110 203 849
North America	2 644 933 240	2 632 654 028	2 444 041 926	2 576 204 452	2 767 142 806
Oceania	1 067 775 345	1 138 200 465	1 167 849 780	1 196 407 350	1 210 489 104
<b>Total</b>	<b>17 175 374 466</b>	<b>17 214 951 933</b>	<b>16 786 834 319</b>	<b>17 260 884 452</b>	<b>17 831 513 408</b>
	2019	2020	2021	2022	2023
Africa	983 718 193	891 827 710	933 736 448		
Asia	10 590 686 886	10 303 432 479	10 803 723 087		
Europe	1 277 179 094	1 174 117 284	1 212 291 826		
Latin America	1 039 705 985	956 913 134	983 848 976		
North America	2 866 382 131	2 652 404 762	2 742 224 818		
Oceania	1 259 950 122	1 249 275 334	1 221 074 462		
<b>Total</b>	<b>18 017 622 411</b>	<b>17 227 970 703</b>	<b>17 896 899 617</b>		

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

(not including bauxite)

in metr. t

	1984	1985	1986	1987	1988
CAS	0	0	0	0	0
CPA	1 080 874 782	1 147 022 610	1 186 312 689	1 229 899 880	1 295 690 825
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	191 860 151	199 771 817	210 248 332	212 834 248	222 882 475
SAS	239 428 915	250 496 548	275 180 380	284 930 463	307 781 867
SSA	317 228 071	335 705 985	344 735 676	341 838 508	357 966 477
WEU	1 164 224 114	1 251 723 090	1 264 101 151	1 258 010 491	1 233 286 184
Total	9 332 929 816	9 645 374 131	9 894 038 868	10 079 913 199	10 367 011 197
	1989	1990	1991	1992	1993
CAS	0	0	0	278 896 061	261 685 653
CPA	1 386 721 186	1 419 909 262	1 440 822 996	1 478 667 364	1 528 180 835
EEU	663 945 884	594 929 160	568 068 077	527 688 425	481 370 927
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	646 478 806	663 108 692	670 868 309	686 903 025
MEA	913 189 412	932 910 023	922 324 208	1 028 328 290	1 077 885 738
NAF	230 573 878	250 061 489	260 688 687	249 164 947	247 976 735
NAM	2 164 153 326	2 203 400 391	2 184 310 275	2 181 881 083	2 143 575 949
PAO	350 718 282	364 676 182	379 144 108	388 882 686	396 034 077
PAS	236 864 923	247 065 328	269 264 299	280 970 870	295 649 284
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	1 172 084 553	1 102 512 226	1 075 345 153	1 045 439 615
Total	10 681 596 000	10 663 153 330	10 511 339 006	10 399 591 510	10 350 183 827
	1994	1995	1996	1997	1998
CAS	220 144 489	209 024 514	207 762 674	196 666 341	189 926 351
CPA	1 610 825 986	1 747 522 163	1 819 538 088	1 780 092 908	1 733 623 584
EEU	473 397 401	473 390 011	475 878 616	465 843 197	426 658 869
FSU	1 256 946 449	1 286 922 247	1 194 807 771	1 251 396 651	1 236 193 893
LAM	720 428 525	746 441 946	777 538 760	814 098 083	887 163 743
MEA	1 083 252 906	1 095 219 497	1 106 598 639	1 181 328 983	1 237 913 427
NAF	251 073 843	262 416 382	248 183 472	257 594 302	257 192 208
NAM	2 262 191 343	2 273 264 743	2 316 707 697	2 351 675 394	2 356 365 541
PAO	403 090 498	426 137 006	439 819 631	470 860 516	484 180 957
PAS	299 751 830	325 072 506	345 222 599	354 962 566	349 096 410
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	1 060 243 398	1 071 276 460	1 099 472 561	1 083 170 709	1 069 861 550
Total	10 447 552 634	10 775 905 128	10 917 681 794	11 139 444 582	11 155 174 277

	1999	2000	2001	2002	2003
CAS	193 706 481	226 432 590	247 773 722	260 744 996	279 344 945
CPA	1 668 947 828	1 664 434 707	1 720 144 645	1 870 093 489	2 261 640 548
EEU	405 146 760	418 950 400	421 696 895	414 317 871	415 186 873
FSU	1 221 889 847	1 244 468 946	1 245 374 547	1 298 774 135	1 352 606 566
LAM	879 205 004	908 631 865	916 258 957	922 162 854	955 349 598
MEA	1 230 015 392	1 309 455 652	1 315 170 315	1 268 525 741	1 376 116 140
NAF	274 893 639	291 278 229	292 003 404	295 825 223	323 298 425
NAM	2 327 963 155	2 324 941 284	2 357 596 851	2 322 570 961	2 283 577 245
PAO	491 972 708	523 604 770	552 323 332	565 875 177	580 217 768
PAS	363 765 792	360 158 440	376 225 284	389 342 271	414 650 548
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	1 075 628 511	1 071 976 164	1 063 375 711	1 069 904 665	1 048 450 864
Total	11 074 851 922	11 321 901 121	11 513 783 206	11 719 643 680	12 396 436 316
	2004	2005	2006	2007	2008
CAS	284 371 632	302 970 252	316 909 707	328 384 662	346 708 810
CPA	2 576 768 289	2 896 704 233	3 173 101 445	3 409 450 916	3 588 924 450
EEU	413 527 928	400 633 752	402 819 211	396 346 738	403 576 085
FSU	1 415 223 481	1 484 092 797	1 556 651 618	1 634 919 377	1 628 590 422
LAM	1 033 685 411	1 068 298 139	1 105 968 273	1 131 860 494	1 122 207 082
MEA	1 488 239 728	1 533 598 147	1 556 703 482	1 568 640 370	1 651 999 489
NAF	339 847 316	362 782 695	377 028 093	382 239 724	387 374 745
NAM	2 355 162 356	2 343 744 813	2 381 080 452	2 371 567 898	2 403 886 981
PAO	604 163 558	635 551 551	649 948 651	683 072 260	717 418 065
PAS	448 977 937	480 119 406	537 883 395	555 571 308	562 518 156
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	609 350 776
WEU	1 049 191 391	1 022 752 620	994 626 996	987 657 169	976 093 745
Total	13 203 481 042	13 805 000 861	14 371 349 958	14 828 315 925	15 223 512 072
	2009	2010	2011	2012	2013
CAS	318 617 571	338 471 845	361 658 083	371 210 481	370 440 153
CPA	3 691 362 985	4 007 881 522	4 358 888 169	4 427 754 535	4 522 239 615
EEU	381 261 225	378 598 610	408 545 344	398 179 554	376 852 952
FSU	1 552 186 383	1 660 776 235	1 707 793 556	1 722 979 641	1 720 981 457
LAM	1 065 789 961	1 128 727 828	1 170 779 425	1 184 530 000	1 171 457 846
MEA	1 570 797 617	1 680 725 599	1 819 424 670	1 861 463 539	1 857 727 819
NAF	367 604 086	371 797 046	297 616 352	340 316 664	308 387 628
NAM	2 295 422 815	2 355 466 902	2 432 757 654	2 440 184 070	2 494 737 892
PAO	737 714 161	808 912 417	824 536 100	872 752 518	967 163 482
PAS	607 783 754	662 179 127	743 666 102	809 207 315	835 900 144
SAS	887 883 635	891 533 102	877 403 823	878 380 623	890 370 909
SSA	596 108 032	637 874 485	631 412 890	654 954 751	656 894 107
WEU	914 081 061	916 402 192	885 393 489	879 149 922	852 241 551
Total	14 986 613 286	15 839 346 910	16 519 875 657	16 841 063 613	17 025 395 555

	2014	2015	2016	2017	2018
CAS	375 243 149	365 186 741	346 490 655	370 229 113	388 746 283
CPA	4 426 614 376	4 350 056 075	3 987 500 135	4 102 264 503	4 288 965 148
EEU	360 145 005	372 004 057	359 799 460	362 570 044	349 092 469
FSU	1 692 848 430	1 687 827 351	1 697 219 400	1 782 636 788	1 852 867 537
LAM	1 203 104 664	1 196 135 887	1 171 648 978	1 159 197 977	1 110 203 849
MEA	1 887 242 854	1 981 202 853	2 085 619 072	2 071 731 247	2 104 067 360
NAF	277 801 418	267 480 739	272 671 825	302 268 390	313 082 096
NAM	2 644 933 240	2 632 654 028	2 444 041 926	2 576 204 452	2 767 142 806
PAO	1 071 802 688	1 140 082 707	1 169 699 995	1 198 367 902	1 213 108 124
PAS	826 552 892	783 418 976	803 482 606	834 000 900	876 377 784
SAS	921 198 062	965 467 748	1 020 839 293	1 048 533 561	1 112 233 434
SSA	669 365 770	672 692 966	642 249 696	660 659 362	662 741 092
WEU	818 521 918	800 741 805	785 571 278	792 220 213	792 885 426
<b>Total</b>	<b>17 175 374 466</b>	<b>17 214 951 933</b>	<b>16 786 834 319</b>	<b>17 260 884 452</b>	<b>17 831 513 408</b>
	2019	2020	2021	2022	2023
CAS	385 909 098	366 837 014	387 730 113		
CPA	4 455 494 687	4 506 544 846	4 715 302 438		
EEU	330 961 228	290 977 387	304 640 402		
FSU	1 870 879 562	1 746 281 618	1 863 979 611		
LAM	1 039 705 985	956 913 134	983 848 976		
MEA	2 048 841 603	1 956 288 310	1 999 352 636		
NAF	318 382 526	267 538 884	331 279 472		
NAM	2 866 382 131	2 652 404 762	2 742 224 818		
PAO	1 261 912 582	1 250 822 882	1 222 622 855		
PAS	929 091 334	868 611 305	869 625 609		
SAS	1 124 514 042	1 070 965 838	1 176 647 813		
SSA	665 335 667	624 288 826	602 456 976		
WEU	720 211 966	669 495 897	697 187 898		
<b>Total</b>	<b>18 017 622 411</b>	<b>17 227 970 703</b>	<b>17 896 899 617</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.	6 159 602 914	6 375 829 605	6 639 234 821	6 755 555 590	7 002 264 892
Least Developed C.	24 113 334	21 501 920	33 277 829	36 753 728	46 914 805
<b>Total</b>	<b>9 332 929 816</b>	<b>9 645 374 131</b>	<b>9 894 038 868</b>	<b>10 079 913 199</b>	<b>10 367 011 197</b>

	1989	1990	1991	1992	1993
Developed C.	3 372 372 850	3 415 864 741	3 605 216 660	3 578 620 438	3 525 046 456
Transition C.	0	0	7 001 748	2 288 481 585	2 149 919 544
Developing C.	7 255 130 175	7 190 516 931	6 845 319 296	4 478 000 553	4 619 740 025
Least Developed C.	54 092 975	56 771 658	53 801 302	54 488 934	55 477 802
<b>Total</b>	<b>10 681 596 000</b>	<b>10 663 153 330</b>	<b>10 511 339 006</b>	<b>10 399 591 510</b>	<b>10 350 183 827</b>
	1994	1995	1996	1997	1998
Developed C.	3 658 030 769	3 701 646 668	3 867 182 258	3 911 530 283	3 901 447 762
Transition C.	1 950 488 339	1 969 336 772	1 798 379 745	1 836 494 053	1 781 242 793
Developing C.	4 775 365 117	5 031 257 725	5 175 105 513	5 312 027 496	5 389 931 117
Least Developed C.	63 668 409	73 663 963	77 014 278	79 392 750	82 552 605
<b>Total</b>	<b>10 447 552 634</b>	<b>10 775 905 128</b>	<b>10 917 681 794</b>	<b>11 139 444 582</b>	<b>11 155 174 277</b>
	1999	2000	2001	2002	2003
Developed C.	3 880 033 363	3 917 626 648	3 974 382 743	3 961 772 614	3 918 787 749
Transition C.	1 755 536 975	1 818 097 949	1 842 215 826	1 905 777 640	1 934 426 788
Developing C.	5 343 956 118	5 486 077 228	5 587 000 473	5 730 320 141	6 418 526 073
Least Developed C.	95 325 466	100 099 296	110 184 164	121 773 285	124 695 706
<b>Total</b>	<b>11 074 851 922</b>	<b>11 321 901 121</b>	<b>11 513 783 206</b>	<b>11 719 643 680</b>	<b>12 396 436 316</b>
	2004	2005	2006	2007	2008
Developed C.	4 213 973 929	4 188 952 460	4 198 055 591	4 291 566 644	4 338 797 589
Transition C.	1 802 283 074	1 882 771 158	2 015 867 999	2 009 697 099	2 033 621 653
Developing C.	7 039 196 306	7 560 589 275	7 980 373 944	8 332 444 079	8 645 683 241
Least Developed C.	148 027 733	172 687 968	177 052 424	194 608 103	205 409 589
<b>Total</b>	<b>13 203 481 042</b>	<b>13 805 000 861</b>	<b>14 371 349 958</b>	<b>14 828 315 925</b>	<b>15 223 512 072</b>
	2009	2010	2011	2012	2013
Developed C.	4 176 663 057	4 300 208 586	4 345 319 058	4 423 730 170	4 532 722 142
Transition C.	1 928 739 106	2 054 118 280	2 130 566 401	2 150 354 227	2 143 251 590
Developing C.	8 679 492 242	9 275 125 082	9 847 231 502	10 070 050 939	10 134 915 213
Least Developed C.	201 718 881	209 894 962	196 758 696	196 928 277	214 506 610
<b>Total</b>	<b>14 986 613 286</b>	<b>15 839 346 910</b>	<b>16 519 875 657</b>	<b>16 841 063 613</b>	<b>17 025 395 555</b>
	2014	2015	2016	2017	2018
Developed C.	4 755 357 650	4 797 551 484	4 596 341 941	4 768 330 729	4 947 555 925
Transition C.	2 109 749 306	2 104 585 622	2 100 685 971	2 204 838 470	2 291 211 269
Developing C.	10 090 931 685	10 101 432 966	9 873 347 731	10 068 030 637	10 390 300 965
Least Developed C.	219 335 825	211 381 861	216 458 676	219 684 616	202 445 249
<b>Total</b>	<b>17 175 374 466</b>	<b>17 214 951 933</b>	<b>16 786 834 319</b>	<b>17 260 884 452</b>	<b>17 831 513 408</b>
	2019	2020	2021	2022	2023
Developed C.	5 000 081 563	4 690 104 043	4 788 901 311		
Transition C.	2 313 535 708	2 173 496 501	2 309 188 999		
Developing C.	10 506 428 062	10 178 826 103	10 616 224 094		
Least Developed C.	197 577 078	185 544 056	182 585 213		
<b>Total</b>	<b>18 017 622 411</b>	<b>17 227 970 703</b>	<b>17 896 899 617</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	160 417 272	167 109 416	176 498 545	179 491 698	189 624 040
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/USMCA	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	183 003 894	189 058 026	196 916 158	195 773 537
ASEAN	207 122 705	222 096 617	246 758 858	258 532 954	271 523 978
BRICS	0	0	0	0	0
CPE	1 387 686 508	1 420 981 827	1 441 606 223	1 479 769 606	1 529 405 170
EC	726 811 162	713 212 294	899 802 813	848 963 697	820 492 751
EFTA	127 328 938	131 079 908	138 682 527	155 402 174	161 077 230
G7	2 719 956 270	2 746 702 086	2 906 700 415	2 852 393 720	2 782 019 540
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	3 433 609 010	3 474 450 475	3 665 834 154	3 645 967 109	3 584 901 605
SADC	32 532 417	34 481 813	34 374 885	36 256 605	33 922 716
	1994	1995	1996	1997	1998
ACP	193 517 244	202 500 957	212 517 124	218 599 890	480 286 475
ASEAN	278 632 414	323 124 810	346 336 893	361 326 482	360 371 902
BRICS	0	0	0	0	0
CPE	1 612 268 258	1 749 177 103	1 821 212 913	1 781 742 497	1 735 596 249
EC	810 422 706	830 631 556	835 014 310	810 193 130	793 392 866
EFTA	178 119 640	167 198 965	191 230 993	196 755 754	190 974 345
G7	2 890 864 001	2 905 879 615	2 944 282 748	2 959 745 223	4 026 600 474
MERCOSUR	0	237 744 912	241 754 188	258 158 580	276 046 988
NAFTA/USMCA	2 471 519 210	2 479 037 674	2 539 711 961	2 580 709 852	2 593 191 794
OECD	3 934 697 616	4 054 480 852	4 401 741 949	4 453 322 458	4 435 701 420
SADC	257 535 416	277 796 119	281 762 373	299 455 912	304 739 026

	1999	2000	2001	2002	2003
ACP	481 367 798	506 054 757	513 198 714	523 640 619	556 103 671
ASEAN	377 113 262	377 104 718	397 866 605	414 935 396	444 204 441
BRICS	0	0	3 451 167 909	3 694 041 059	4 178 820 953
CPE	1 671 544 919	1 667 680 499	1 723 512 951	1 874 392 063	2 266 139 859
EC	795 356 622	786 159 755	774 671 132	782 355 532	759 900 398
EFTA	194 749 270	206 691 249	212 922 426	218 397 044	221 357 270
G7	3 990 479 133	3 987 937 488	4 006 251 222	4 016 333 569	4 010 573 889
MERCOSUR	282 748 724	305 879 670	301 536 799	318 735 895	332 243 088
NAFTA/USMCA	2 559 448 246	2 558 431 251	2 593 370 345	2 558 828 271	2 532 086 511
OECD	4 401 668 065	4 433 484 070	4 488 644 900	4 465 626 674	4 436 022 529
SADC	305 753 050	305 765 038	307 466 314	319 218 257	328 807 074
	2004	2005	2006	2007	2008
ACP	599 412 463	632 512 679	648 443 044	665 359 788	679 606 288
ASEAN	492 731 179	529 611 096	591 312 077	612 391 011	616 303 293
BRICS	4 612 848 255	5 045 888 677	5 436 683 402	5 810 738 805	6 019 544 331
CPE	2 580 696 285	2 900 180 890	3 176 703 257	3 412 691 115	3 592 419 686
EC	1 041 340 682	1 002 525 360	966 282 239	1 030 585 249	1 006 918 511
EFTA	223 187 755	214 901 567	208 170 789	200 006 268	203 721 928
G7	4 127 325 296	4 146 823 017	4 216 918 915	4 265 534 274	4 266 652 349
MERCOSUR	361 091 110	384 188 065	628 913 827	652 236 026	646 652 940
NAFTA/USMCA	2 607 837 537	2 598 634 254	2 633 342 309	2 620 247 444	2 636 651 391
OECD	4 532 312 682	4 522 752 028	4 539 468 357	4 540 633 576	4 576 253 709
SADC	341 465 580	365 950 912	367 087 253	384 621 611	403 968 407
	2009	2010	2011	2012	2013
ACP	667 046 315	710 013 789	693 754 618	705 599 155	709 027 619
ASEAN	669 148 945	725 237 317	808 541 996	871 646 181	898 891 900
BRICS	6 076 129 645	6 536 173 481	6 925 035 098	7 329 924 164	7 422 619 423
CPE	3 694 151 041	4 010 804 745	4 361 661 139	4 430 421 348	4 524 283 678
EC	937 470 944	935 845 478	939 073 765	917 634 268	883 152 009
EFTA	200 145 508	193 287 487	182 613 943	187 123 786	179 012 688
G7	4 063 970 879	4 211 410 300	4 313 813 143	4 320 057 786	4 356 376 221
MERCOSUR	594 891 174	640 389 557	653 339 655	655 377 112	635 772 996
NAFTA/USMCA	2 519 249 757	2 581 823 945	2 659 873 455	2 670 956 435	2 724 273 183
OECD	4 401 840 074	4 589 226 421	4 666 818 077	4 718 346 703	4 837 543 877
SADC	397 770 207	412 907 945	405 408 384	424 111 445	430 077 075
	2014	2015	2016	2017	2018
ACP	721 543 668	723 952 281	689 158 923	707 443 628	709 413 922
ASEAN	887 945 476	850 296 057	871 995 075	902 123 306	951 785 172
BRICS	7 385 435 128	7 377 055 040	7 053 442 259	7 325 134 898	7 633 730 504
CPE	4 429 043 431	4 348 091 516	3 977 278 165	4 091 589 518	4 275 604 630
EC	848 791 698	826 240 213	781 160 970	788 515 949	769 036 000
EFTA	180 353 090	189 222 630	190 505 921	194 038 527	186 758 101
G7	3 003 904 422	2 987 034 485	2 784 010 009	2 912 846 436	3 102 483 220
MERCOSUR	663 919 488	686 405 815	678 372 999	686 051 933	642 929 150
NAFTA/USMCA	2 867 107 764	2 831 965 728	2 637 908 828	2 753 004 152	2 939 568 803
OECD	5 048 238 414	5 058 914 738	4 867 473 020	5 018 997 056	5 216 435 122
SADC	442 007 447	435 502 216	424 072 269	438 470 785	436 281 571

	2019	2020	2021	2022	2023
ACP	712 733 623	670 169 805	645 635 027		
ASEAN	1 008 308 081	940 946 941	945 076 332		
BRICS	7 796 018 473	7 664 765 090	8 106 898 175		
CPE	4 442 575 797	4 493 604 281	4 700 397 911		
EC	684 674 531	584 297 620	536 134 523		
EFTA	175 993 707	187 611 012	192 120 698		
G7	3 160 624 295	2 912 521 839	3 011 809 376		
MERCOSUR	586 146 214	552 977 488	584 847 994		
NAFTA/USMCA	3 026 560 372	2 810 594 832	2 895 119 692		
OECD	5 257 185 381	5 061 491 018	5 153 583 204		
SADC	428 209 780	396 694 599	389 162 789		

### 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	104 515 654	101 407 295	386 194 631
Fair	4 742 799 162	4 761 233 104	4 860 047 942	4 849 751 962	5 358 541 544
Unstable	5 313 386 963	5 474 066 157	5 518 639 931	5 381 947 067	4 795 681 500
Extreme Unstable	767 506 847	817 485 198	671 970 750	741 745 598	781 483 446
Total	10 917 681 794	11 139 444 582	11 155 174 277	11 074 851 922	11 321 901 121
	2001	2002	2003	2004	2005
Stable	355 190 957	349 875 134	19 963 414	49 270 953	244 902 434
Fair	5 297 186 974	4 945 559 276	5 964 849 270	5 213 389 979	5 135 760 264
Unstable	5 042 971 666	5 419 165 416	4 873 746 055	4 978 182 501	6 330 954 094
Extreme Unstable	818 433 609	1 005 043 854	1 537 877 577	2 962 637 609	2 093 384 069
Total	11 513 783 206	11 719 643 680	12 396 436 316	13 203 481 042	13 805 000 861
	2006	2007	2008	2009	2010
Stable	237 915 847	25 179 583	209 989 308	218 606 014	212 765 789
Fair	5 421 816 562	5 880 254 649	5 741 158 830	5 241 732 293	5 629 649 398
Unstable	7 846 146 953	8 385 166 759	8 437 378 169	7 563 978 004	7 837 327 172
Extreme Unstable	865 470 596	537 714 934	834 985 765	1 962 296 975	2 159 604 551
Total	14 371 349 958	14 828 315 925	15 223 512 072	14 986 613 286	15 839 346 910
	2011	2012	2013	2014	2015
Stable	195 904 880	205 993 312	198 571 422	36 777 495	484 595 097
Fair	5 501 520 014	5 577 358 836	5 399 010 163	5 988 261 503	5 211 913 999
Unstable	8 779 955 672	9 005 667 849	10 624 609 581	10 532 296 196	10 785 776 574
Extreme Unstable	2 042 495 091	2 052 043 616	803 204 389	618 039 272	732 666 263
Total	16 519 875 657	16 841 063 613	17 025 395 555	17 175 374 466	17 214 951 933



	2016	2017	2018	2019	2020
Stable	487 963 172	12 593 796	11 969 925	11 761 733	10 830 290
Fair	5 233 965 192	5 910 122 085	6 050 188 645	6022780067	5568427190
Unstable	10 273 656 250	10 378 518 511	10 450 433 330	10713780843	10695070871
Extreme Unstable	791 249 705	959 650 060	1 318 921 508	1269299768	953642352
<b>Total</b>	<b>16 786 834 319</b>	<b>17 260 884 452</b>	<b>17 831 513 408</b>	<b>18 017 622 411</b>	<b>17 227 970 703</b>
	2021	2022	2023	2024	2025
Stable	10 253 891				
Fair	5 657 068 330				
Unstable	11 226 981 638				
Extreme Unstable	1 002 595 758				
<b>Total</b>	<b>17 896 899 617</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	35 084 585	35 280 131	35 134 266	36 715 179	37 771 629
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>9 332 929 816</b>	<b>9 645 374 131</b>	<b>9 894 038 868</b>	<b>10 079 913 199</b>	<b>10 367 011 197</b>
	1989	1990	1991	1992	1993
Iron and Ferro-Alloys	563 035 654	553 138 430	554 426 795	518 351 544	527 354 970
Non-Ferrous Metals	39 457 040	39 158 801	39 133 368	39 714 334	39 121 393
Precious Metals	17 189	17 418	17 000	17 352	16 581
Industrial Minerals	508 179 916	495 266 552	473 973 296	466 022 788	453 542 362
Mineral Fuels	9 570 906 201	9 575 572 129	9 443 788 547	9 375 485 492	9 330 148 521
<b>Total</b>	<b>10 681 596 000</b>	<b>10 663 153 330</b>	<b>10 511 339 006</b>	<b>10 399 591 510</b>	<b>10 350 183 827</b>
	1994	1995	1996	1997	1998
Iron and Ferro-Alloys	546 473 894	577 003 628	564 412 774	590 662 477	593 354 759
Non-Ferrous Metals	38 758 449	40 425 344	42 593 880	44 044 133	45 872 155
Precious Metals	15 937	16 863	17 370	18 567	19 575
Industrial Minerals	476 448 258	493 200 047	501 553 390	518 080 782	504 542 436
Mineral Fuels	9 385 856 096	9 665 259 246	9 809 104 380	9 986 638 623	10 011 385 352
<b>Total</b>	<b>10 447 552 634</b>	<b>10 775 905 128</b>	<b>10 917 681 794</b>	<b>11 139 444 582</b>	<b>11 155 174 277</b>

	1999	2000	2001	2002	2003
Iron and Ferro-Alloys	582 302 931	627 277 484	596 561 401	642 377 488	692 928 163
Non-Ferrous Metals	47 973 981	49 999 012	50 557 341	51 770 272	54 904 665
Precious Metals	19 871	21 041	21 628	21 769	21 737
Industrial Minerals	532 629 932	539 434 881	537 057 554	542 008 604	589 890 476
Mineral Fuels	9 911 925 207	10 105 168 703	10 329 585 282	10 483 465 547	11 058 691 275
<b>Total</b>	<b>11 074 851 922</b>	<b>11 321 901 121</b>	<b>11 513 783 206</b>	<b>11 719 643 680</b>	<b>12 396 436 316</b>
	2004	2005	2006	2007	2008
Iron and Ferro-Alloys	787 207 372	858 612 467	963 127 912	1 064 353 923	1 120 984 014
Non-Ferrous Metals	57 518 485	60 526 878	63 650 568	68 904 072	71 643 411
Precious Metals	22 637	23 216	22 932	23 447	24 044
Industrial Minerals	633 680 934	656 649 518	679 234 001	693 078 079	700 313 424
Mineral Fuels	11 725 051 614	12 229 188 782	12 665 314 545	13 001 956 404	13 330 547 179
<b>Total</b>	<b>13 203 481 042</b>	<b>13 805 000 861</b>	<b>14 371 349 958</b>	<b>14 828 315 925</b>	<b>15 223 512 072</b>
	2009	2010	2011	2012	2013
Iron and Ferro-Alloys	1 103 080 437	1 224 004 013	1 308 602 816	1 320 724 158	1 401 844 672
Non-Ferrous Metals	68 786 771	74 867 975	78 343 726	85 356 312	90 051 397
Precious Metals	25 518	26 727	26 914	28 217	29 533
Industrial Minerals	673 755 493	712 674 005	740 569 092	752 882 753	781 216 623
Mineral Fuels	13 140 965 067	13 827 774 190	14 392 333 109	14 682 072 173	14 752 253 330
<b>Total</b>	<b>14 986 613 286</b>	<b>15 839 346 910</b>	<b>16 519 875 657</b>	<b>16 841 063 613</b>	<b>17 025 395 555</b>
	2014	2015	2016	2017	2018
Iron and Ferro-Alloys	1 490 632 046	1 494 789 495	1 502 945 334	1 554 609 380	1 570 009 096
Non-Ferrous Metals	92 253 381	96 193 095	96 906 145	98 050 174	102 977 508
Precious Metals	30 686	31 861	31 902	30 800	31 652
Industrial Minerals	785 081 500	790 281 214	791 316 050	802 011 255	825 014 143
Mineral Fuels	14 807 376 853	14 833 656 268	14 395 634 888	14 806 182 843	15 333 481 009
<b>Total</b>	<b>17 175 374 466</b>	<b>17 214 951 933</b>	<b>16 786 834 319</b>	<b>17 260 884 452</b>	<b>17 831 513 408</b>
	2019	2020	2021	2022	2023
Iron and Ferro-Alloys	1 599 612 882	1 567 412 575	1 682 971 493		
Non-Ferrous Metals	102 815 267	104 563 805	107 665 438		
Precious Metals	31 845	29 930	29 604		
Industrial Minerals	810 856 834	781 511 602	809 971 978		
Mineral Fuels	15 504 305 583	14 774 452 791	15296261104		
<b>Total</b>	<b>18 017 622 411</b>	<b>17 227 970 703</b>	<b>17896899617</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 Oil Sands	8 347 400	10 814 300	13 852 000	14 766 100	16 470 800
Natural 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	3 104 331 760	3 149 671 237	3 147 685 027	3 196 071 169	3 218 379 949
Petroleum Oil Sands	17 980 000	18 510 800	18 777 200	19 617 900	20 237 800
Natural Gas	1 610 295 200	1 629 505 600	1 658 865 600	1 663 157 600	1 733 213 600
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>9 570 906 201</b>	<b>9 575 572 129</b>	<b>9 443 788 547</b>	<b>9 375 485 492</b>	<b>9 330 148 521</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	3 189 910 583	3 251 473 414	3 274 753 153	3 406 937 738	3 509 675 999
Petroleum Oil Sands	21 344 000	23 031 100	23 962 800	28 400 500	31 770 100
Natural Gas	1 719 076 800	1 794 533 600	1 857 552 800	1 874 728 000	1 904 060 000
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>9 385 856 096</b>	<b>9 665 259 246</b>	<b>9 809 104 380</b>	<b>9 986 638 623</b>	<b>10 011 385 352</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	3 449 855 456	3 581 515 235	3 580 719 066	3 561 490 820	3 702 073 702
Petroleum Oil Sands	33 866 500	44 441 000	50 443 100	63 151 600	66 369 900
Natural Gas	1 956 240 800	2 002 115 200	2 033 502 400	2 096 815 200	2 142 354 400
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>9 911 925 207</b>	<b>10 105 168 703</b>	<b>10 329 585 282</b>	<b>10 483 465 547</b>	<b>11 058 691 275</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	3 886 173 188	3 937 443 890	3 962 183 873	3 944 129 480	3 984 767 351
Petroleum Oil Sands	83 717 200	80 995 800	90 087 100	94 861 200	95 744 700
Natural Gas	2 200 730 400	2 272 442 400	2 356 186 400	2 439 281 600	2 524 384 000
Oil Shales	16 027 336	16 524 485	16 079 794	18 505 726	18 031 734
Uranium	47 352	49 204	46 471	48 767	51 779
<b>Total</b>	<b>11 725 051 614</b>	<b>12 229 188 782</b>	<b>12 665 314 545</b>	<b>13 001 956 404</b>	<b>13 330 547 179</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	3 880 424 897	3 972 550 377	4 005 961 272	4 112 368 047	4 125 733 300
Petroleum Oil Sands	102 879 100	110 453 500	116 257 300	129 172 900	135 662 800
Natural Gas	2 438 430 400	2 647 440 800	2 713 756 000	2 774 710 400	2 768 952 800
Oil Shales	15 888 442	18 805 092	19 505 132	19 701 365	21 375 653
Uranium	59 673	62 960	63 389	70 196	70 636
<b>Total</b>	<b>13 140 965 067</b>	<b>13 827 774 190</b>	<b>14 392 333 109</b>	<b>14 682 072 173</b>	<b>14 752 253 330</b>
	2014	2015	2016	2017	2018
Steam Coal	5 820 055 359	5 668 110 299	5 243 275 026	5 531 843 735	5 832 247 979
Coking Coal	1 118 855 146	1 090 745 410	1 048 119 557	1 022 714 054	1 032 969 261
Lignite	818 200 727	820 582 221	814 324 735	820 800 439	800 482 271
Petroleum Total	4 201 657 817	4 361 196 453	4 384 524 486	4 387 148 840	4 487 781 435
Petroleum Oil Sands	135 882 800	158 197 900	159 356 500	169 006 100	176 864 600
Natural Gas	2 826 640 800	2 872 443 200	2 888 634 400	3 021 070 400	3 157 141 600
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>14 807 376 853</b>	<b>14 833 656 268</b>	<b>14 395 634 888</b>	<b>14 806 182 843</b>	<b>15 333 481 009</b>
	2019	2020	2021	2022	2023
Steam Coal	5 958 338 079	5 724 048 030	5 967 292 267		
Coking Coal	1 056 251 596	1 035 840 063	1 056 173 086		
Lignite	734 494 823	637 137 537	687 108 149		
Petroleum Total	4 486 614 813	4 195 820 549	4 250 303 021		
Petroleum Oil Sands	176 766 200	167 943 300	182 022 400		
Natural Gas	3 251 913 600	3 168 496 000	3 322 653 600		
Oil Shales	16 628 394	13 054 894	12 674 826		
Uranium	64 278	55 718	56 155		
<b>Total</b>	<b>15 504 305 583</b>	<b>14 774 452 791</b>	<b>15 296 261 104</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 Oil Sands	11 920 087	15 442 820	19 780 656	21 085 991	23 520 302
Natural Gas	1 820 618 730	1 892 310 322	1 929 095 794	2 016 425 544	2 106 360 390
Oil Shales	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	4 432 985 753	4 497 730 526	4 494 894 219	4 563 989 629	4 595 846 567
Petroleum Oil Sands	25 675 440	26 433 422	26 813 842	28 014 361	28 899 578
Natural Gas	2 180 339 701	2 206 350 582	2 246 104 022	2 251 915 390	2 346 771 214
Oil Shales	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>10 925 364 606</b>	<b>10 876 897 801</b>	<b>10 662 251 610</b>	<b>10 612 997 496</b>	<b>10 582 390 563</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	4 555 192 313	4 643 104 035	4 676 347 502	4 865 107 090	5 011 817 327
Petroleum Oil Sands	30 479 232	32 888 411	34 218 878	40 555 914	45 367 703
Natural Gas	2 327 629 987	2 429 798 494	2 515 126 491	2 538 381 712	2 578 097 240
Oil Shales	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>10 599 226 356</b>	<b>10 958 246 425</b>	<b>11 144 398 569</b>	<b>11 394 340 402</b>	<b>11 476 300 365</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	4 926 393 591	5 114 403 756	5 113 266 826	5 085 808 891	5 286 561 246
Petroleum Oil Sands	48 361 362	63 461 748	72 032 747	90 180 485	94 776 217
Natural Gas	2 648 750 043	2 710 863 981	2 753 362 250	2 839 087 781	2 900 747 858
Oil Shales	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>11 352 016 204</b>	<b>11 678 151 667</b>	<b>11 880 380 133</b>	<b>12 005 899 961</b>	<b>12 540 664 528</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	5 549 455 312	5 622 669 875	5 657 998 571	5 632 216 897	5 690 247 777
Petroleum Oil Sands	119 548 162	115 662 002	128 644 379	135 461 794	136 723 432
Natural Gas	2 979 788 962	3 076 887 010	3 190 276 386	3 302 787 286	3 418 015 936
Oil Shales	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>13 286 036 541</b>	<b>13 753 505 941</b>	<b>14 088 683 384</b>	<b>14 408 425 228</b>	<b>14 769 799 579</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	5 541 246 753	5 672 801 938	5 720 512 696	5 872 461 571	5 891 547 152
Petroleum Oil Sands	146 911 355	157 727 598	166 015 424	184 458 901	193 726 478
Natural Gas	3 301 634 762	3 584 634 843	3 674 425 624	3 756 957 882	3 749 162 091
Oil Shales	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>14 669 787 318</b>	<b>15 416 860 838</b>	<b>15 876 534 763</b>	<b>16 299 435 544</b>	<b>16 375 623 831</b>
	2014	2015	2016	2017	2018
Steam Coal	4 389 774 731	4 271 411 939	3 944 351 852	4 154 974 673	4 364 844 242
Coking Coal	864 214 794	844 124 892	812 581 204	798 688 055	805 374 578
Lignite	278 440 353	280 122 416	279 424 269	280 914 207	273 269 323
Petroleum Total	5 999 967 363	6 227 788 535	6 261 100 966	6 264 848 544	6 408 551 889
Petroleum Oil Sands	194 040 638	225 906 601	227 561 082	241 340 711	252 562 649
Natural Gas	3 827 271 643	3 889 288 093	3 911 210 978	4 090 529 322	4 274 769 726
Oil Shales	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>16 480 186 431</b>	<b>16 707 724 886</b>	<b>16 445 250 929</b>	<b>16 758 415 898</b>	<b>17 191 085 955</b>
	2019	2020	2021	2022	2023
Steam Coal	4 448 276 411	4 250 424 799	4 424 898 987		
Coking Coal	822 431 664	803 321 887	817 418 790		
Lignite	253 428 156	222 773 467	239 886 786		
Petroleum Total	6 406 885 953	5 991 631 744	6 069 432 714		
Petroleum Oil Sands	252 422 134	239 823 032	259 927 987		
Natural Gas	4 403 091 014	4 290 143 584	4 498 872 974		
Oil Shales	5 038 403	3 955 633	3 840 472		
Uranium	1 060 587 000	919 347 000	926 557 500		
<b>Total</b>	<b>17 399 738 601</b>	<b>16 481 598 114</b>	<b>16 980 908 223</b>		

## 6.1.8 Total Minerals Production 2021, 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	4 639 063 663	259 466 140	46 919 355	3 845	174 314 400	4 089 959 923
United States	2 216 667 393	30 260 150	3 177 483	1 225	91 339 426	2 091 889 109
Russia	1 676 162 754	59 782 705	5 388 230	1 700	37 565 412	1 566 859 707
Australia	1 309 620 617	575 173 171	4 302 853	1 637	19 445 978	607 430 574
India	1 124 985 677	159 168 500	5 048 520	648	56 400 057	881 874 005
Indonesia	683 946 744	4 515 300	987 618	369	3 535 830	649 126 440
Saudi Arabia	635 880 724	288 700	1 096 805	19	16 741 000	612 266 200
Canada	525 557 425	35 657 088	4 060 598	570	33 369 582	452 469 587
Brazil	504 344 435	274 447 385	1 295 508	174	16 526 806	176 124 962
Iran	440 056 520	35 170 570	1 128 487	57	25 595 366	377 278 090
South Africa	295 750 194	63 153 896	967 316	389	3 042 789	228 585 804
Kazakhstan	256 471 197	18 140 980	1 123 952	1 120	7 192 816	225 642 229
United Arab Emirates	217 949 470	0	2 577 680	0	5 396 000	209 975 790
Qatar	213 903 100	0	634 270	0	2 100 000	211 168 830
Iraq	209 987 370	0	0	0	1 674 000	208 313 370
Norway	190 587 141	1 353 461	1 431 390	0	284 890	187 517 400
Germany	166 021 812	87 500	510 003	6	32 334 091	133 090 212
Mexico	152 894 874	11 036 879	1 750 933	6 243	16 582 899	123 517 920
Algeria	146 226 100	416 000	500	0	3 580 000	142 229 600
Turkey	146 025 073	11 070 630	459 070	202	42 188 709	89 541 589
Kuwait	135 203 800	0	0	0	1 019 000	134 184 800
Nigeria	121 204 122	24 004	84 630	2	155 757	120 939 729
Poland	120 475 308	740	421 094	1 304	7 944 250	112 107 920
Ukraine	107 706 664	53 572 500	5	0	6 485 623	47 648 536
Colombia	100 511 247	375 751	9 194	84	884 214	99 238 804
Oman	93 045 398	199 300	395 360	0	13 377 238	79 073 500
Guinea	88 577 859	1 139 200	0	102	0	0
Malaysia	87 314 603	3 365 191	904 223	3	398 693	82 598 916
Egypt	87 211 573	278 000	270 000	13	2 823 000	83 840 560
Turkmenistan	78 694 400	0	0	0	715 000	77 979 400
United Kingdom	72 833 604	0	37 700	0	4 528 634	68 267 270
Libya	72 671 900	0	0	0	370 000	72 301 900
Vietnam	72 293 535	2 476 705	69 002	1	2 271 827	63 376 000
Thailand	63 226 444	201 544	220	0	13 488 967	49 535 713
Azerbaijan	61 339 990	0	33 649	12	663 629	60 642 700
Argentina	61 311 038	0	374 395	880	2 593 263	58 342 500
Angola	59 249 702	37 610	0	0	232 602	58 979 490
Venezuela	55 129 791	1 462 500	38 340	9	850 000	52 756 942
Uzbekistan	51 218 149	1 307	221 569	312	811 510	50 183 451
Pakistan	49 539 305	362 260	61 507	0	7 048 433	41 969 610
Peru	38 272 415	12 192 495	4 145 061	3 407	6 734 670	15 196 782
Serbia	37 936 712	0	138 794	17	255 469	37 542 432
Czech Republic	36 148 788	0	0	0	4 191 000	31 957 788
Mongolia	35 792 151	5 139 355	353 380	98	757 049	29 542 269
Bulgaria	32 991 531	0	143 696	49	4 336 000	28 511 786
Romania	30 868 485	6 600	303 429	19	2 356 003	28 202 434
Chile	30 640 449	11 212 721	5 718 276	1 417	12 559 514	1 148 521
Bahrain	25 371 452	0	1 561 222	0	130 000	23 680 230
Trinidad and Tobago	23 992 900	0	0	0	0	23 992 900
Ecuador	23 848 409	0	89 170	39	1 000	23 758 200

Netherlands	23 379 796	0	47 554	0	6 120 742	17 211 500
Bangladesh	23 004 563	0	0	0	1 651 000	21 353 563
Spain	22 598 020	37 241	429 640	83	22 094 871	36 185
Korea, North	22 335 360	1 600 150	55 150	60	680 000	20 000 000
Sweden	20 850 677	19 964 200	514 039	438	372 000	0
Philippines	18 893 849	448 349	51 786	56	785 390	17 608 268
Laos	18 249 046	2 113 560	45 049	36	1 773 808	14 316 593
Greece	17 514 628	6 170	209 169	47	3 928 216	12 143 528
Israel	17 310 905	0	0	0	3 416 900	13 894 005
Mozambique	16 916 427	1 126 889	565 086	1	426 186	14 790 413
Myanmar	16 761 112	224 240	283 360	1	215 734	16 037 777
Bolivia	16 642 159	23 674	618 583	1 335	392 097	15 606 470
Bosnia-Herzegovina	15 776 082	792 500	103 657	0	1 402 139	12 802 517
Gabon	14 643 300	4 240 100	0	0	0	10 403 200
Morocco	14 335 464	52 063	128 795	194	14 063 166	91 246
Congo, Rep.	14 260 600	0	14 600	0	0	14 246 000
Brunei	14 251 080	0	0	0	0	14 251 080
Ghana	12 393 293	934 200	39 239	89	300 000	10 280 300
Italy	12 287 210	0	0	0	4 690 810	7 596 400
Belarus	11 935 200	0	0	0	10 015 000	1 920 200
France	11 869 088	0	430 040	0	10 628 854	667 430
Estonia	11 743 000	0	0	0	0	11 743 000
Equatorial Guinea	11 556 965	0	0	0	0	11 556 965
New Zealand	9 553 034	2 200 000	333 135	9	155 500	6 864 390
Kosovo	8 549 266	4 960	8 870	0	0	8 535 436
Mauritania	8 290 552	8 201 700	18 846	6	70 000	0
Tunisia	7 955 084	143 900	0	0	3 889 544	3 921 640
Syria	7 594 420	0	0	0	540 000	7 054 420
South Sudan	7 515 700	0	0	0	0	7 515 700
Hungary	7 381 486	0	0	0	86 000	7 295 486
Japan	6 715 608	0	3 299	9	4 427 100	2 285 200
Guyana	6 439 438	0	0	16	0	5 820 870
Jamaica	6 025 600	0	0	0	76 000	0
Chad	5 799 300	0	0	0	0	5 799 300
Jordan	5 699 677	0	0	0	5 538 177	161 500
Korea, South	5 533 618	500 968	10 092	10	4 077 448	945 100
Austria	5 228 231	1 060 469	0	0	3 073 034	1 094 728
Cameroon	5 201 500	0	36 400	0	0	5 165 100
North Macedonia	5 139 668	0	79 750	15	301 399	4 758 504
Denmark	5 104 371	0	0	0	744 971	4 359 400
Papua New Guinea	4 707 239	77 979	66 531	129	0	4 562 600
Cote d'Ivoire	4 397 643	602 500	0	43	0	3 095 100
Zimbabwe	3 956 845	660 851	10 320	60	39 614	3 246 000
Yemen	3 718 750	0	0	0	70 000	3 648 750
Cuba	3 413 202	57 300	74 500	0	559 802	2 721 600
Kyrgyzstan	3 343 932	0	8 110	42	52 680	3 283 100
Tanzania	3 314 992	39 100	11 678	69	817 388	2 446 719
Congo, D.R.	3 221 345	95 105	1 956 203	34	3	1 170 000
Liberia	3 000 008	3 000 000	0	8	0	0
Sudan	2 879 351	2 700	0	51	271 600	2 605 000
Slovenia	2 852 185	0	37 867	0	1 746	2 812 572
Slovakia	2 615 859	0	164 197	0	1 308 170	1 143 492
Botswana	2 532 502	0	11 742	11	499 531	2 021 218
Sierra Leone	2 486 514	1 085 736	0	0	4 100	0
Tajikistan	2 372 535	0	220 910	21	46 169	2 105 435
Zambia	2 243 149	60 787	827 113	4	691 900	663 345
Finland	2 239 891	516 137	93 058	56	1 630 640	0
Montenegro	2 129 946	0	54 574	0	0	1 548 612
Croatia	1 613 033	0	0	0	397 285	1 201 300
Senegal	1 503 325	314 350	0	16	1 164 159	24 800
Albania	1 378 530	228 920	5 690	0	146 295	997 625
Ireland	1 355 442	0	125 441	1	110 000	1 120 000



Namibia	1 201 663	61 740	52 752	14	1 080 373	6 784
Portugal	1 148 842	542	257 649	98	890 553	0
Niger	981 555	0	0	4	0	981 551
Afghanistan	946 921	5 300	0	0	478 421	463 200
Switzerland	832 700	0	0	0	832 700	0
Suriname	818 419	0	0	19	0	818 400
Cyprus	742 830	0	0	0	742 830	0
Iceland	700 857	0	695 857	0	5 000	0
Guatemala	668 968	59 100	0	0	196 768	413 100
Madagascar	585 738	360 396	4 130	2	221 210	0
Togo	538 864	0	0	4	538 860	0
Bhutan	532 566	16 590	0	0	404 431	111 545
Georgia	524 747	217 900	8 130	17	102 500	196 200
Eritrea	487 939	0	149 865	74	338 000	0
Dominican Republic	467 372	27 819	9 760	105	349 630	0
Ethiopia	386 793	782	0	11	386 000	0
Latvia	383 990	0	0	0	383 990	0
Bahamas	368 702	0	0	0	368 702	0
Taiwan	359 708	0	0	0	269 598	90 110
Panama	354 675	0	331 000	82	23 593	0
Armenia	333 485	10 611	87 676	23	235 175	0
Kenya	326 805	282 710	0	0	44 095	0
Moldova	312 872	0	0	0	307 900	4 972
Sri Lanka	209 509	28 775	0	0	180 734	0
New Caledonia	187 784	187 784	0	0	0	0
Eswatini	162 681	0	0	0	0	162 681
Honduras	154 960	0	46 420	40	108 500	0
Christmas Island	120 290	0	0	0	120 290	0
Nauru	102 500	0	0	0	102 500	0
Lithuania	101 910	0	0	0	72 990	28 920
Burkina Faso	84 246	0	84 170	76	0	0
Nicaragua	75 031	0	0	32	74 999	0
Cambodia	68 683	0	0	1	68 682	0
Fiji	49 402	49 400	0	2	0	0
Malawi	33 241	2 990	0	0	0	30 251
El Salvador	30 000	0	0	0	30 000	0
Barbados	29 570	0	0	0	0	29 570
Uganda	24 203	13	190	0	24 000	0
Uruguay	23 830	3 310	0	0	20 520	0
Nepal	20 714	0	5 550	0	4 450	10 714
Paraguay	10 500	0	0	0	10 500	0
Rwanda	4 232	1 950	2 280	2	0	0
Costa Rica	4 001	0	0	1	4 000	0
Lebanon	3 000	0	0	0	3 000	0
Cape Verde	2 621	0	0	0	2 621	0
Mauritius	2 200	0	0	0	2 200	0
Malta	1 600	0	0	0	1 600	0
Belgium	1 220	0	1 220	0	0	0
Benin	500	0	0	0	500	0
Burundi	375	145	229	1	0	0
Mali	72	0	0	72	0	0
Central African Republic	1	0	0	1	0	0
French Guiana	1	0	0	1	0	0
Total	18 276 750 490	1 682 971 493	107 665 438	29 604	809 971 979	15 296 261 104

### 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	879 461	57 470	135 441	22 039	26 318	635 936
United States	652 348	6 717	16 879	12 892	9 834	606 025
Russia	506 217	15 530	20 021	27 279	14 313	428 856
Saudi Arabia	289 925	46	3 239	723	1 416	284 320
Australia	246 674	107 812	18 738	18 866	2 715	95 135
Canada	223 136	8 892	13 907	14 817	16 727	168 793
India	188 994	43 981	13 041	593	7 062	123 575
South Africa	169 302	106 360	2 680	29 709	933	29 619
Brazil	149 811	53 044	6 137	5 449	2 431	81 563
Iran	136 975	6 899	5 034	444	1 535	123 034
Indonesia	135 502	22 456	8 483	4 440	542	98 731
Iraq	105 610	0	0	0	92	105 518
Kazakhstan	101 671	20 946	6 446	7 450	1 234	65 452
United Arab Emirates	100 027	0	6 375	0	496	93 156
Mexico	80 599	3 171	9 681	12 140	1 601	54 006
Norway	69 272	405	3 540	0	27	65 301
Kuwait	64 907	0	0	0	96	64 812
Qatar	64 402	0	1 569	0	193	62 640
Chile	62 911	3 531	53 657	3 094	2 394	235
Nigeria	49 411	118	420	116	36	48 721
Algeria	44 894	67	2	4	163	44 659
Peru	44 568	3 185	27 549	8 294	869	4 672
Oman	33 317	1 799	978	0	160	30 379
Libya	33 314	0	0	0	19	33 295
Colombia	31 931	761	86	3 255	75	27 754
Angola	29 008	6	0	2	23	28 976
Malaysia	27 008	1 605	2 332	104	56	22 910
United Kingdom	26 639	0	93	5	548	25 993
Egypt	26 446	75	668	747	264	24 692
Turkey	26 128	13 235	1 969	2 403	4 538	3 892
Congo, D.R.	25 769	4 853	18 488	1 821	0	607
Argentina	23 205	0	1 120	2 834	346	18 905
Azerbaijan	22 768	0	101	205	31	22 430
Gabon	21 944	16 659	0	12	0	5 273
Venezuela	21 606	234	95	520	96	20 660
Ukraine	20 173	11 330	3	0	717	8 122
Turkmenistan	17 304	0	0	0	89	17 216
Uzbekistan	16 877	46	1 582	5 986	309	8 954
Poland	15 541	14	3 719	1 094	837	9 878
Vietnam	14 477	1 354	595	38	373	11 981
Ecuador	13 975	0	831	888	0	12 256
Ghana	13 401	3 670	97	5 071	38	4 497
Germany	12 196	14	1 268	6	6 355	4 554
Philippines	12 050	7 417	485	1 490	78	2 579
Bahrain	11 280	0	3 861	0	12	7 407
Zimbabwe	10 836	6 192	110	4 086	10	439
Thailand	9 980	34	7	0	492	9 448
Belarus	9 896	0	0	0	8 963	933
Bolivia	9 707	67	2 406	3 679	166	3 390
Pakistan	9 637	561	298	0	644	8 131
Mongolia	9 597	930	3 001	1 165	209	4 292
Guinea	8 969	182	0	5 901	0	0
Zambia	8 390	304	7 706	231	64	86
Congo, Rep.	7 234	0	109	9	0	7 116
Myanmar	7 148	1 145	3 202	45	21	2 735
Finland	6 556	5 150	485	692	230	0
Cote d'Ivoire	6 086	2 694	0	2 421	0	948

Sweden	6 069	3 194	1 986	854	35	0
Papua New Guinea	5 511	1 131	620	2 336	0	1 424
Trinidad and Tobago	5 394	0	0	0	0	5 394
Israel	5 215	0	0	0	2 793	2 422
Mozambique	4 970	884	1 406	44	321	2 315
Romania	4 410	26	813	43	184	3 343
Brunei	4 293	0	0	0	0	4 293
Sudan	4 271	25	0	2 875	19	1 352
Netherlands	4 142	0	118	0	765	3 259
Burkina Faso	4 126	0	253	3 873	0	0
Equatorial Guinea	4 042	0	0	0	0	4 042
Mali	4 016	0	0	4 016	0	0
Bangladesh	4 008	0	0	0	206	3 801
Tanzania	3 991	6	112	3 456	37	379
Guyana	3 939	0	0	898	0	3 021
South Sudan	3 901	0	0	0	0	3 901
Korea, North	3 737	261	158	619	119	2 580
Spain	3 722	27	2 059	170	1 457	8
Italy	3 584	0	0	0	570	3 015
New Caledonia	3 516	3 516	0	0	0	0
Panama	3 405	0	3 084	318	3	0
Chad	3 010	0	0	0	0	3 010
Morocco	2 915	258	679	165	1 796	17
New Zealand	2 901	352	824	339	21	1 365
Syria	2 868	0	0	0	59	2 809
Bulgaria	2 840	0	1 071	592	531	646
Serbia	2 799	0	1 177	298	39	1 285
Albania	2 590	2 124	53	0	5	408
Cuba	2 588	1 103	200	0	54	1 232
France	2 440	0	1 072	0	1 024	339
Laos	2 249	338	405	527	589	390
Jordan	2 218	0	0	0	2 186	33
Cameroon	2 216	0	90	25	0	2 101
Dominican Republic	2 117	514	59	1 535	6	0
Denmark	2 014	0	0	0	127	1 887
Mauritania	1 864	1 312	176	376	1	0
Yemen	1 864	0	0	0	6	1 858
Tunisia	1 818	23	0	0	381	1 414
Kyrgyzstan	1 804	0	76	1 451	3	273
Iceland	1 721	0	1 721	0	1	0
Czech Republic	1 716	0	0	0	615	1 101
Tajikistan	1 626	0	789	549	7	281
Suriname	1 502	0	0	1 078	0	425
Greece	1 473	106	525	227	278	297
Japan	1 432	0	48	363	475	546
Armenia	1 389	375	768	230	16	0
Senegal	1 387	256	0	850	270	11
Estonia	1 339	0	0	0	0	1 339
Namibia	1 327	49	171	447	133	528
Guatemala	1 294	1 091	0	0	8	194
Madagascar	1 209	918	25	116	150	0
Portugal	1 191	15	1 004	79	93	0
Georgia	1 187	856	76	213	2	40
Korea, South	956	203	69	17	541	126
Eritrea	941	0	578	323	40	0
Liberia	935	480	0	455	0	0
Niger	908	0	0	232	0	676
Hungary	891	0	0	0	7	884
Austria	864	195	0	0	283	387
Bosnia-Herzegovina	831	127	258	0	141	282
Nicaragua	669	0	0	662	7	0
Slovakia	606	0	407	23	140	37

Ethiopia	593	17	0	556	21	0
Ireland	561	0	366	1	1	193
Botswana	478	0	109	46	62	261
Croatia	434	0	0	0	17	416
North Macedonia	398	0	248	40	6	105
Kenya	371	309	0	17	45	0
Honduras	331	0	129	193	8	0
Sierra Leone	323	262	0	9	6	0
Kosovo	302	92	22	0	0	188
Rwanda	275	86	74	116	0	0
Togo	274	0	0	208	66	0
Afghanistan	260	48	0	0	146	65
Jamaica	198	0	0	0	2	0
Montenegro	191	0	140	0	0	34
Slovenia	157	0	94	0	0	63
Cambodia	93	0	0	85	9	0
Fiji	72	8	0	65	0	0
French Guiana	69	0	0	69	0	0
Switzerland	68	0	0	0	68	0
Burundi	67	6	4	57	0	0
Sri Lanka	49	22	0	0	26	0
Central African Republic	49	0	0	49	0	0
Bahamas	46	0	0	0	46	0
Taiwan	44	0	0	0	27	16
Costa Rica	36	0	0	35	2	0
Lithuania	22	0	0	0	7	15
Bhutan	22	3	0	0	5	14
Eswatini	21	0	0	0	0	21
Cyprus	15	0	0	0	15	0
Nepal	15	0	12	0	1	1
Christmas Island	15	0	0	0	15	0
Nauru	13	0	0	0	13	0
Barbados	12	0	0	0	0	12
Uganda	12	0	5	1	6	0
Belgium	12	0	12	0	0	0
Moldova	6	0	0	0	3	3
Malawi	4	0	0	0	0	4
Latvia	4	0	0	0	4	0
El Salvador	4	0	0	0	4	0
Uruguay	3	1	0	0	2	0
Paraguay	1	0	0	0	1	0
Total	5 133 702	561 581	432 676	245 276	133 972	3 747 663



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

### 6.2.1 Iron and Ferro-Alloy Metals

Commodity	2017	2018	2019	2020	2021	Change 17/21 in %
	in metr. t					
Iron	1 511 758 884	1 524 574 245	1 551 335 349	1 524 139 484	1 635 056 040	8.16
Chromium	14 142 863	15 188 744	15 779 216	11 967 592	14 676 208	3.77
Cobalt	138 692	158 317	124 518	130 056	134 476	-3.04
Manganese	18 758 889	19 609 756	21 164 890	19 623 184	21 219 335	13.12
Molybdenum	285 378	270 100	277 180	284 890	267 724	-6.19
Nickel	2 141 797	2 377 719	2 707 513	2 477 828	2 812 251	31.30
Niobium	91 980	109 023	134 960	93 509	121 902	32.53
Tantalum	2 301	2 037	1 645	1 706	1 760	-23.51
Titanium	7 120 354	7 550 118	7 900 029	8 503 499	8 493 291	19.28
Tungsten	86 350	84 090	88 859	85 051	88 537	2.53
Vanadium	81 892	84 947	98 723	105 776	99 969	22.07

### 6.2.2 Non-Ferrous Metals

Commodity	2017	2018	2019	2020	2021	Change 17/21 in %
	in metr. t					
Aluminium	60 544 944	64 443 050	63 214 479	65 381 119	67 668 825	11.77
Antimony	148 941	145 002	134 659	119 411	93 997	-36.89
Arsenic	57 447	51 737	55 243	52 298	54 895	-4.44
Bauxite	311 864 443	337 375 396	361 800 355	378 992 038	379 850 872	21.80
Beryllium	5 306	6 111	5 927	6 240	6 716	26.57
Bismuth	10 607	10 886	9 073	9 513	11 143	5.05
Cadmium	26 777	26 771	24 885	24 781	24 770	-7.50
Copper	20 083 860	20 701 144	20 649 981	20 855 700	21 415 370	6.63
Gallium	310	323	374	304	434	40.00
Germanium	98	106	95	96	142	44.90
Indium	782	830	917	942	917	17.26
Lead	4 654 192	4 629 440	4 941 593	4 745 630	4 680 596	0.57
Lithium	162 723	198 930	192 065	186 955	232 530	42.90
Mercury	2 396	2 864	2 313	2 290	1 657	-30.84
Rare Earths	133 235	182 193	203 365	229 162	269 203	102.05
Rhenium	45	47	44	38	42	-6.67
Selenium	3 005	3 196	3 533	3 279	3 710	23.46
Tellurium	613	649	529	459	734	19.74
Tin	315 906	317 153	294 622	277 312	271 033	-14.20
Zinc	11 898 987	12 257 076	13 081 570	12 668 276	12 928 724	8.65

### 6.2.3 Precious Metals

Commodity	2017	2018	2019	2020	2021	Change 17/21 in %
	in kg					
Gold	3 336 485	3 384 486	3 327 965	3 205 661	3 235 183	-3.04
Palladium	204 633	223 387	225 409	199 902	212 590	3.89
Platinum	184 641	189 221	185 502	165 619	190 865	3.37
Rhodium	23 074	22 938	23 814	20 970	24 479	6.09
Silver	27 054 523	27 836 005	28 085 662	26 342 561	25 938 922	-4.12

### 6.2.4 Industrial Minerals

Commodity	2017	2018	2019	2020	2021	Change 17/21 in %
	in metr. t (Diamonds in ct)					
Asbestos	1 157 070	1 237 256	1 137 505	1 132 268	1 292 356	11.69
Baryte	8 954 503	9 632 288	9 514 043	7 845 612	8 369 341	-6.53
Bentonite	21 206 070	21 791 056	21 780 674	18 906 501	18 786 975	-11.41
Boron	4 228 732	4 492 429	4 293 276	3 601 366	4 919 804	16.34
Diam. (Gem)	81 162 007	83 460 898	78 202 637	62 210 733	75 334 617	-7.18
Diam. (Ind)	69 587 848	63 959 124	57 130 000	45 473 520	42 922 870	-38.32
Diatomite	2 242 941	2 310 207	2 299 083	2 256 681	2 543 310	13.39
Feldspar	31 488 667	35 049 802	31 000 759	29 891 627	35 837 620	13.81
Fluorspar	5 749 993	6 970 064	7 661 824	7 741 736	8 391 911	45.95
Graphite	896 326	1 028 542	1 127 551	954 737	1 167 430	30.25
Gypsum	155 905 264	167 914 386	160 614 129	166 467 072	172 829 953	10.86
Kaolin	45 196 053	45 412 692	44 212 825	42 633 696	43 336 444	-4.11
Magnesite	28 448 337	28 945 537	27 339 204	28 254 847	28 013 127	-1.53
Perlite	2 375 840	2 713 894	2 823 336	3 129 745	3 702 669	55.85
Phosphates	79 600 355	71 496 230	71 500 920	69 697 070	75 370 830	-5.31
Potash	42 321 610	43 443 845	42 215 857	44 739 197	45 154 340	6.69
Salt	282 563 282	290 534 458	292 279 225	267 753 764	273 766 013	-3.11
Sulfur	79 602 245	81 705 154	81 466 023	77 983 540	76 822 483	-3.49
Talc	8 278 468	8 327 549	7 797 170	6 856 317	7 695 296	-7.04
Vermiculite	416 091	438 951	424 421	416 638	515 987	24.01
Zircon	1 379 379	1 569 774	1 368 984	1 249 168	1 456 067	5.56

## 6.2.5 Mineral Fuels

Commodity	2017	2018	2019	2020	2021	Change 17/21 in %
	in metr. t (Nat. Gas in Mio m <sup>3</sup> )					
Steam Coal	5 531 843 735	5 832 247 979	5 958 338 079	5 724 048 030	5 967 292 267	7.87
Coking Coal	1 022 714 054	1 032 969 261	1 056 251 596	1 035 840 063	1 056 173 086	3.27
Hard Coal (Tot)	6 554 557 789	6 865 217 240	7 014 589 675	6 759 888 093	7 023 465 353	7.15
Lignite	820 800 439	800 482 271	734 494 823	637 137 537	687 108 149	-16.29
Coal (Tot)	7 375 358 228	7 665 699 511	7 749 084 498	7 397 025 630	7 710 573 502	4.55
Petroleum	4 387 148 840	4 487 781 435	4 486 614 813	4 195 820 549	4 250 303 021	-3.12
Nat. Gas	3 776 338	3 946 427	4 064 892	3 960 620	4 153 317	9.98
Oil Sands*	169 006 100	176 864 600	176 766 200	167 943 300	182 022 400	7.70
Oil Shales	22 534 973	22 794 380	16 628 394	13 054 894	12 674 826	-43.75
Uranium	70 402	64 083	64 278	55 718	56 155	-20.24

\*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)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	632 252 158	646 035 302	654 007 756	652 715 984	661 012 367
Developing C.	754 008 126	751 516 853	757 687 703	728 830 780	829 977 023
Least Developed C.	12 012 170	10 405 940	11 311 540	12 113 640	15 501 050
Transition C.	113 486 430	116 616 150	128 328 350	130 479 080	128 565 600
<b>Total</b>	<b>1 511 758 884</b>	<b>1 524 574 245</b>	<b>1 551 335 349</b>	<b>1 524 139 484</b>	<b>1 635 056 040</b>
Annual per capita income:					
High Income	642 284 025	655 490 090	662 937 000	663 228 250	672 467 671
Upper Middle Income	680 028 979	680 114 435	666 526 759	626 581 834	689 787 519
Lower Middle Income	181 637 810	183 526 400	216 997 240	229 342 190	266 108 360
Low Income	7 808 070	5 443 320	4 874 350	4 987 210	6 692 490
<b>Total</b>	<b>1 511 758 884</b>	<b>1 524 574 245</b>	<b>1 551 335 349</b>	<b>1 524 139 484</b>	<b>1 635 056 040</b>
Political stability:					
Stable	2 324 640	2 100 000	1 915 000	2 260 000	2 200 000
Fair	661 658 385	662 195 110	672 162 900	669 922 930	680 417 201
Unstable	797 852 929	785 005 595	790 220 109	816 841 154	915 688 879
Extreme Unstable	49 922 930	75 273 540	87 037 340	35 115 400	36 749 960
<b>Total</b>	<b>1 511 758 884</b>	<b>1 524 574 245</b>	<b>1 551 335 349</b>	<b>1 524 139 484</b>	<b>1 635 056 040</b>
Country groups and economic blocks:					
ACP	60 651 280	58 619 700	58 152 860	47 766 710	60 998 680
ASEAN	7 004 255	6 125 390	7 956 930	9 175 030	10 923 340
BRICS	741 721 424	738 946 625	739 331 932	699 195 862	791 566 825
CPE	227 183 530	218 165 920	229 635 230	234 342 660	263 827 160
EC	19 778 056	19 385 032	20 498 770	21 181 540	21 147 830
EFTA	992 700	1 129 900	1 069 700	1 014 700	1 057 500
G7	60 942 600	63 448 700	62 661 300	59 970 600	65 257 500
MERCOSUR	293 734 314	289 678 235	257 404 732	247 188 202	274 795 935
NAFTA/USMCA	67 887 220	71 778 610	72 898 470	70 649 700	75 970 000
OECD	655 110 735	673 166 980	681 800 460	687 167 860	693 104 411
SADC	48 813 560	48 287 700	47 074 610	36 207 780	47 640 190

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

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	411 060	483 400	504 010	471 410	473 690
Developing C.	10 974 843	11 751 084	12 238 456	9 106 032	11 893 858
Least Developed C.	119 360	76 460	45 750	12 600	14 600
Transition C.	2 637 600	2 877 800	2 991 000	2 377 550	2 294 060
<b>Total</b>	<b>14 142 863</b>	<b>15 188 744</b>	<b>15 779 216</b>	<b>11 967 592</b>	<b>14 676 208</b>
Annual per capita income:					
High Income	592 150	837 030	797 050	654 130	669 230
Upper Middle Income	11 427 453	11 909 064	12 261 606	9 239 552	11 451 688
Lower Middle Income	1 709 280	2 379 150	2 674 810	2 061 310	2 540 690
Low Income	413 980	63 500	45 750	12 600	14 600
<b>Total</b>	<b>14 142 863</b>	<b>15 188 744</b>	<b>15 779 216</b>	<b>11 967 592</b>	<b>14 676 208</b>
Political stability:					
Stable	0	0	0	0	0
Fair	3 073 350	1 169 630	1 181 250	880 780	902 930
Unstable	9 625 353	12 697 174	12 901 116	10 928 402	13 622 908
Extreme Unstable	1 444 160	1 321 940	1 696 850	158 410	150 370
<b>Total</b>	<b>14 142 863</b>	<b>15 188 744</b>	<b>15 779 216</b>	<b>11 967 592</b>	<b>14 676 208</b>
Country groups and economic blocks:					
ACP	7 549 610	8 052 550	8 227 090	6 129 160	8 311 130
ASEAN	8 340	20 260	14 570	14 040	12 290
BRICS	9 077 713	9 802 324	9 618 106	7 217 802	9 787 488
CPE	26 400	26 830	54 250	68 440	76 120
EC	411 060	483 400	504 010	471 410	473 690
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	212 503	219 724	199 256	226 762	248 108
NAFTA/USMCA	0	0	0	0	0
OECD	1 795 760	1 630 000	2 032 710	1 558 810	1 701 590
SADC	7 485 380	7 980 800	8 141 630	6 057 960	8 255 800

## Cobalt

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	14 032	12 343	12 827	12 259	10 796
Developing C.	27 683	20 908	19 459	20 357	20 336
Least Developed C.	88 077	116 366	82 832	87 740	95 244
Transition C.	8 900	8 700	9 400	9 700	8 100
<b>Total</b>	<b>138 692</b>	<b>158 317</b>	<b>124 518</b>	<b>130 056</b>	<b>134 476</b>

Annual per capita income:

High Income	16 812	14 447	14 530	14 456	12 296
Upper Middle Income	24 077	18 070	17 692	16 947	16 655
Lower Middle Income	11 930	11 200	10 735	11 229	10 281
Low Income	85 873	114 600	81 561	87 424	95 244
<b>Total</b>	<b>138 692</b>	<b>158 317</b>	<b>124 518</b>	<b>130 056</b>	<b>134 476</b>

Political stability:

Stable	0	0	0	0	0
Fair	22 088	19 109	16 627	16 159	14 843
Unstable	33 923	27 236	29 112	27 306	26 622
Extreme Unstable	82 681	111 972	78 779	86 591	93 011
<b>Total</b>	<b>138 692</b>	<b>158 317</b>	<b>124 518</b>	<b>130 056</b>	<b>134 476</b>

Country groups and economic blocks:

ACP	98 301	126 051	90 976	96 434	102 584
ASEAN	4 050	3 950	4 100	4 600	5 300
BRICS	18 450	12 811	13 427	12 797	10 455
CPE	13 707	8 100	6 800	6 100	5 800
EC	2 300	1 377	1 454	1 559	1 084
EFTA	0	0	0	0	0
G7	6 698	6 088	5 632	5 074	4 484
MERCOSUR	185	4	0	0	0
NAFTA/USMCA	6 698	6 088	5 632	5 074	4 484
OECD	14 252	12 602	12 942	12 509	13 196
SADC	89 587	117 776	84 261	89 593	95 829

## Manganese

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	2 885 244	3 519 470	3 268 490	3 364 480	3 285 440
Developing C.	14 574 925	14 642 196	16 357 470	14 883 724	16 532 695
Least Developed C.	182 020	257 990	445 630	281 580	268 000
Transition C.	1 116 700	1 190 100	1 093 300	1 093 400	1 133 200
<b>Total</b>	<b>18 758 889</b>	<b>19 609 756</b>	<b>21 164 890</b>	<b>19 623 184</b>	<b>21 219 335</b>

Annual per capita income:

High Income	2 882 410	3 525 490	3 280 990	3 359 660	3 282 600
Upper Middle Income	12 729 779	12 362 036	13 681 680	12 974 174	14 274 415
Lower Middle Income	3 145 180	3 716 870	4 199 440	3 288 350	3 604 460
Low Income	1 520	5 360	2 780	1 000	57 860
<b>Total</b>	<b>18 758 889</b>	<b>19 609 756</b>	<b>21 164 890</b>	<b>19 623 184</b>	<b>21 219 335</b>

Political stability:

Stable	0	0	0	0	0
Fair	4 723 914	4 222 680	5 385 640	4 405 410	4 571 300
Unstable	13 327 295	14 389 091	14 570 040	14 893 164	16 324 565
Extreme Unstable	707 680	997 985	1 209 210	324 610	323 470
<b>Total</b>	<b>18 758 889</b>	<b>19 609 756</b>	<b>21 164 890</b>	<b>19 623 184</b>	<b>21 219 335</b>

Country groups and economic blocks:

ACP	8 914 390	10 244 170	11 643 290	10 987 658	12 975 726
ASEAN	784 100	878 860	1 036 215	764 610	673 890
BRICS	10 213 767	9 060 855	10 183 974	9 047 389	9 848 142
CPE	2 612 700	1 295 100	1 456 000	1 339 100	1 447 000
EC	6 234	5 150	9 290	8 450	6 600
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	1 343 967	1 310 825	1 452 034	932 721	597 446
NAFTA/USMCA	218 510	209 023	232 957	258 045	220 560
OECD	3 124 820	3 753 243	3 532 057	4 179 875	4 109 700
SADC	5 551 120	5 693 160	6 484 810	6 062 228	7 166 506

## Molybdenum

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	45 465	46 448	47 986	55 080	43 532
Developing C.	230 913	215 069	219 010	215 050	209 719
Least Developed C.	0	0	0	0	0
Transition C.	9 000	8 583	10 184	14 760	14 473
<b>Total</b>	<b>285 378</b>	<b>270 100</b>	<b>277 180</b>	<b>284 890</b>	<b>267 724</b>
Annual per capita income:					
High Income	108 862	107 154	103 011	114 872	92 959
Upper Middle Income	172 696	159 056	170 349	162 732	166 258
Lower Middle Income	3 340	3 330	3 290	7 186	8 407
Low Income	480	560	530	100	100
<b>Total</b>	<b>285 378</b>	<b>270 100</b>	<b>277 180</b>	<b>284 890</b>	<b>267 724</b>
Political stability:					
Stable	0	0	0	0	0
Fair	111 537	110 098	105 501	117 762	95 934
Unstable	172 941	155 862	167 519	163 592	167 640
Extreme Unstable	900	4 140	4 160	3 536	4 150
<b>Total</b>	<b>285 378</b>	<b>270 100</b>	<b>277 180</b>	<b>284 890</b>	<b>267 724</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	120 317	100 682	106 659	97 677	104 300
CPE	120 210	101 560	107 690	98 960	105 675
EC	0	0	0	0	0
EFTA	0	0	1	1	1
G7	45 465	46 448	47 985	55 079	43 123
MERCOSUR	651	364	0	0	0
NAFTA/USMCA	59 450	66 713	69 679	75 656	59 442
OECD	123 096	127 869	124 705	135 449	109 278
SADC	0	0	0	0	0

## Nickel

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	478 509	419 871	421 968	395 711	351 480
Developing C.	1 364 035	1 659 104	1 994 989	1 805 439	2 210 601
Least Developed C.	63 373	50 954	50 436	34 668	49 490
Transition C.	235 880	247 790	240 120	242 010	200 680
<b>Total</b>	<b>2 141 797</b>	<b>2 377 719</b>	<b>2 707 513</b>	<b>2 477 828</b>	<b>2 812 251</b>

Annual per capita income:

High Income	693 891	636 096	630 153	595 086	537 764
Upper Middle Income	623 182	628 473	1 643 559	631 962	594 984
Lower Middle Income	774 007	1 079 946	400 065	1 240 872	1 648 113
Low Income	50 717	33 204	33 736	9 908	31 390
<b>Total</b>	<b>2 141 797</b>	<b>2 377 719</b>	<b>2 707 513</b>	<b>2 477 828</b>	<b>2 812 251</b>

Political stability:

Stable	0	0	0	0	0
Fair	528 111	492 285	498 378	467 476	431 699
Unstable	1 598 916	1 854 124	2 190 195	1 988 352	2 362 452
Extreme Unstable	14 770	31 310	18 940	22 000	18 100
<b>Total</b>	<b>2 141 797</b>	<b>2 377 719</b>	<b>2 707 513</b>	<b>2 477 828</b>	<b>2 812 251</b>

Country groups and economic blocks:

ACP	199 176	210 158	213 038	185 940	206 362
ASEAN	731 627	1 014 316	1 373 725	1 167 611	1 577 659
BRICS	442 614	446 253	437 678	442 153	404 434
CPE	151 648	147 963	149 674	151 048	149 600
EC	56 451	64 212	56 525	51 409	48 273
EFTA	190	170	135	120	350
G7	236 402	195 467	206 557	174 838	151 981
MERCOSUR	68 803	65 254	55 761	68 097	75 988
NAFTA/USMCA	236 402	195 467	206 557	174 838	151 981
OECD	493 279	433 431	426 708	472 225	423 931
SADC	99 180	94 290	96 597	64 056	79 449

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

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	6 981	7 700	6 800	6 400	7 650
Developing C.	83 318	99 755	126 831	85 682	112 925
Least Developed C.	1 033	899	670	810	679
Transition C.	648	669	659	617	648
<b>Total</b>	<b>91 980</b>	<b>109 023</b>	<b>134 960</b>	<b>93 509</b>	<b>121 902</b>
Annual per capita income:					
High Income	6 981	7 700	6 800	6 400	7 650
Upper Middle Income	83 844	100 243	127 320	86 219	113 433
Lower Middle Income	122	181	170	80	140
Low Income	1 033	899	670	810	679
<b>Total</b>	<b>91 980</b>	<b>109 023</b>	<b>134 960</b>	<b>93 509</b>	<b>121 902</b>
Political stability:					
Stable	0	0	0	0	0
Fair	7 241	7 945	7 005	6 560	7 810
Unstable	83 857	100 257	127 333	86 271	113 449
Extreme Unstable	882	821	622	678	643
<b>Total</b>	<b>91 980</b>	<b>109 023</b>	<b>134 960</b>	<b>93 509</b>	<b>121 902</b>
Country groups and economic blocks:					
ACP	1 155	1 080	840	890	819
ASEAN	0	0	0	0	0
BRICS	83 844	100 243	127 320	86 219	113 433
CPE	30	20	20	30	30
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	6 981	7 700	6 800	6 400	7 650
MERCOSUR	83 166	99 554	126 641	85 572	112 755
NAFTA/USMCA	6 981	7 700	6 800	6 400	7 650
OECD	6 981	7 700	6 800	6 400	7 650
SADC	727	619	444	582	489

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

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	20	40	98	66	89
Developing C.	869	720	607	569	692
Least Developed C.	1 367	1 233	908	1 011	940
Transition C.	45	44	32	60	39
<b>Total</b>	<b>2 301</b>	<b>2 037</b>	<b>1 645</b>	<b>1 706</b>	<b>1 760</b>

Annual per capita income:

High Income	20	40	98	66	89
Upper Middle Income	431	516	509	541	570
Lower Middle Income	483	248	130	88	161
Low Income	1 367	1 233	908	1 011	940
Total	2 301	2 037	1 645	1 706	1 760

Political stability:

Stable	0	0	0	0	0
Fair	421	447	415	307	335
Unstable	523	604	592	577	681
Extreme Unstable	1 357	986	638	822	744
Total	2 301	2 037	1 645	1 706	1 760

Country groups and economic blocks:

ACP	1 847	1 463	1 028	1 091	1 100
ASEAN	6	27	2	1	1
BRICS	425	489	507	540	569
CPE	110	100	135	180	180
EC	0	0	18	16	19
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	270	345	340	300	350
NAFTA/USMCA	0	0	0	0	0
OECD	20	40	98	66	89
SADC	818	710	519	694	580

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

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	1 967 200	1 771 620	1 641 745	1 640 580	1 637 130
Developing C.	3 228 254	3 841 908	4 145 824	4 712 219	4 445 251
Least Developed C.	1 426 700	1 349 640	1 485 310	1 582 270	1 897 310
Transition C.	498 200	586 950	627 150	568 430	513 600
Total	7 120 354	7 550 118	7 900 029	8 503 499	8 493 291
Annual per capita income:					
High Income	2 089 870	1 888 870	1 804 535	1 798 920	1 637 130
Upper Middle Income	2 512 334	3 157 558	3 439 654	3 967 559	3 876 736
Lower Middle Income	1 091 450	1 441 990	1 451 560	1 446 490	1 392 425
Low Income	1 426 700	1 061 700	1 204 280	1 290 530	1 587 000
Total	7 120 354	7 550 118	7 900 029	8 503 499	8 493 291



Political stability:

Stable	0	0	0	0	0
Fair	2 280 530	2 023 720	2 205 175	1 805 200	1 650 600
Unstable	4 403 154	4 971 273	5 119 794	5 819 299	6 835 831
Extreme Unstable	436 670	555 125	575 060	879 000	6 860
Total	7 120 354	7 550 118	7 900 029	8 503 499	8 493 291

Country groups and economic blocks:

ACP	2 862 260	2 689 790	2 717 970	2 788 680	3 051 520
ASEAN	125 664	134 873	119 674	146 124	140 576
BRICS	2 569 630	3 180 790	3 566 850	4 131 740	4 012 150
CPE	1 359 160	2 054 250	2 419 580	3 051 560	2 983 720
EC	0	0	0	0	0
EFTA	238 200	176 370	211 280	229 780	295 610
G7	736 000	720 000	650 000	580 000	540 000
MERCOSUR	66 930	73 090	81 650	61 940	75 100
NAFTA/USMCA	736 000	720 000	650 000	580 000	540 000
OECD	2 096 240	1 895 045	1 810 665	1 805 375	1 644 210
SADC	2 045 900	1 916 300	2 009 100	2 104 600	2 351 600

## Tungsten (W-Content)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	3 299	3 408	1 854	1 787	2 263
Developing C.	79 258	76 625	82 725	79 611	82 519
Least Developed C.	1 546	1 726	1 747	1 359	1 830
Transition C.	2 247	2 331	2 533	2 294	1 925
Total	86 350	84 090	88 859	85 051	88 537
Annual per capita income:					
High Income	3 299	3 408	1 854	1 787	2 263
Upper Middle Income	74 398	70 690	77 726	74 075	70 919
Lower Middle Income	7 124	7 046	6 532	7 500	13 515
Low Income	1 529	2 946	2 747	1 689	1 840
Total	86 350	84 090	88 859	85 051	88 537
Political stability:					
Stable	0	0	0	0	0
Fair	9 868	9 874	8 160	2 812	3 928
Unstable	76 196	73 692	80 144	81 859	84 311
Extreme Unstable	286	524	555	380	298
Total	86 350	84 090	88 859	85 051	88 537

Country groups and economic blocks:

ACP	1 231	1 618	1 669	1 327	1 822
ASEAN	5 514	5 136	4 968	6 107	11 833
BRICS	74 355	70 580	77 689	73 986	70 861
CPE	77 774	74 721	81 266	77 865	80 565
EC	3 294	3 398	1 824	1 687	2 103
EFTA	0	0	0	0	0
G7	1 086	890	0	0	0
MERCOSUR	411	346	306	262	301
NAFTA/USMCA	0	45	15	32	0
OECD	3 299	3 453	1 869	1 819	2 263
SADC	133	176	297	146	122

## Vanadium (V-Content)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	0	0	460	17	0
Developing C.	63 256	67 895	79 883	86 226	79 911
Least Developed C.	0	0	0	0	0
Transition C.	18 636	17 052	18 380	19 533	20 058
Total	81 892	84 947	98 723	105 776	99 969

Annual per capita income:

High Income	0	0	460	17	0
Upper Middle Income	81 892	84 505	98 187	105 659	99 869
Lower Middle Income	0	442	76	100	100
Low Income	0	0	0	0	0
Total	81 892	84 947	98 723	105 776	99 969

Political stability:

Stable	0	0	0	0	0
Fair	0	0	460	17	0
Unstable	81 892	84 947	98 263	105 759	99 969
Extreme Unstable	0	0	0	0	0
Total	81 892	84 947	98 723	105 776	99 969

Country groups and economic blocks:

ACP	7 958	7 691	8 062	8 584	8 799
ASEAN	0	0	0	0	0
BRICS	81 892	84 947	98 263	105 759	99 969
CPE	48 500	53 200	64 700	69 960	63 800
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	460	17	0
MERCOSUR	6 798	6 562	7 045	7 582	7 212
NAFTA/USMCA	0	0	460	17	0
OECD	0	0	460	17	0
SADC	7 958	7 691	8 062	8 584	8 799

## 6.3.2 Non-Ferrous Metals

### Aluminium

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	10 047 511	9 966 543	9 986 081	10 108 461	10 065 600
Developing C.	45 786 376	49 560 121	48 266 635	50 357 300	52 617 857
Least Developed C.	577 495	571 125	564 756	571 125	564 756
Transition C.	4 133 562	4 345 261	4 397 007	4 344 233	4 420 612
<b>Total</b>	<b>60 544 944</b>	<b>64 443 050</b>	<b>63 214 479</b>	<b>65 381 119</b>	<b>67 668 825</b>
Annual per capita income:					
High Income	15 412 474	15 106 109	15 723 562	15 714 987	15 939 648
Upper Middle Income	40 428 920	44 378 662	42 803 164	44 394 140	46 001 490
Lower Middle Income	4 022 908	4 291 354	4 022 197	4 700 867	5 162 931
Low Income	680 642	666 925	665 556	571 125	564 756
<b>Total</b>	<b>60 544 944</b>	<b>64 443 050</b>	<b>63 214 479</b>	<b>65 381 119</b>	<b>67 668 825</b>
Political stability:					
Stable	1 096 728	1 072 156	1 034 097	1 025 303	1 028 992
Fair	13 727 536	13 769 925	13 389 329	13 634 753	13 584 157
Unstable	45 211 157	49 092 278	48 391 587	49 667 967	52 437 221
Extreme Unstable	509 523	508 691	399 466	1 053 096	618 455
<b>Total</b>	<b>60 544 944</b>	<b>64 443 050</b>	<b>63 214 479</b>	<b>65 381 119</b>	<b>67 668 825</b>
Country groups and economic blocks:					
ACP	1 402 593	1 393 892	1 378 864	1 373 191	1 354 395
ASEAN	975 192	979 306	993 457	1 200 789	1 101 577
BRICS	41 790 918	45 674 181	44 258 289	46 030 537	47 931 900
CPE	33 289 600	36 831 000	35 361 600	37 080 400	38 503 200
EC	2 257 220	2 204 107	2 090 562	2 024 431	1 964 929
EFTA	2 012 988	2 026 478	1 994 616	2 021 989	2 126 857
G7	4 976 238	4 784 341	4 928 987	5 127 083	5 021 343
MERCOSUR	1 368 939	1 163 300	1 098 634	1 004 900	1 148 279
NAFTA/USMCA	3 953 008	3 821 041	3 979 803	4 145 327	4 044 550
OECD	9 840 960	9 757 024	9 783 855	9 916 754	9 854 201
SADC	1 293 495	1 285 125	1 281 756	1 288 125	1 278 756

## Antimony

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	3 132	2 178	2 034	3 905	3 382
Developing C.	106 769	79 306	76 164	67 784	51 605
Least Developed C.	4 820	2 970	4 870	6 600	3 110
Transition C.	34 220	60 548	51 591	41 122	35 900
<b>Total</b>	<b>148 941</b>	<b>145 002</b>	<b>134 659</b>	<b>119 411</b>	<b>93 997</b>
Annual per capita income:					
High Income	3 132	2 178	2 034	3 905	3 382
Upper Middle Income	110 113	106 889	94 677	81 283	55 853
Lower Middle Income	9 326	7 045	8 048	34 223	34 762
Low Income	26 370	28 890	29 900	0	0
<b>Total</b>	<b>148 941</b>	<b>145 002</b>	<b>134 659</b>	<b>119 411</b>	<b>93 997</b>
Political stability:					
Stable	0	0	0	0	0
Fair	4 032	2 753	2 500	3 905	3 622
Unstable	140 054	134 374	123 214	107 824	85 512
Extreme Unstable	4 855	7 875	8 945	7 682	4 863
<b>Total</b>	<b>148 941</b>	<b>145 002</b>	<b>134 659</b>	<b>119 411</b>	<b>93 997</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	5 050	3 215	5 266	6 912	3 415
BRICS	103 803	101 224	90 093	78 527	51 230
CPE	97 913	70 641	68 818	61 307	41 785
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1	5	2	2	2
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	241	305	291	138	415
OECD	8 212	6 048	6 138	6 611	8 005
SADC	0	0	0	0	0

## Arsenic

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	1 045	1 045	1 045	1 040	1 040
Developing C.	55 402	50 192	54 096	50 758	52 855
Least Developed C.	0	0	0	0	0
Transition C.	1 000	500	102	500	1 000
<b>Total</b>	<b>57 447</b>	<b>51 737</b>	<b>55 243</b>	<b>52 298</b>	<b>54 895</b>

Annual per capita income:

High Income	1 045	1 045	1 045	1 040	1 040
Upper Middle Income	49 503	44 876	49 017	43 514	46 872
Lower Middle Income	6 899	5 816	5 181	7 744	6 983
Low Income	0	0	0	0	0
<b>Total</b>	<b>57 447</b>	<b>51 737</b>	<b>55 243</b>	<b>52 298</b>	<b>54 895</b>

Political stability:

Stable	0	0	0	0	0
Fair	1 745	1 045	1 045	1 040	40
Unstable	55 702	50 692	54 198	51 258	54 855
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>57 447</b>	<b>51 737</b>	<b>55 243</b>	<b>52 298</b>	<b>54 895</b>

Country groups and economic blocks:

ACP	700	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	26 000	24 500	24 102	24 500	25 000
CPE	25 000	24 000	24 000	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	40	40
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	1 045	1 045	1 045	1 040	1 040
SADC	700	0	0	0	0

## Bauxite (crude ore)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	91 844 366	98 061 428	107 212 912	105 209 462	104 651 114
Developing C.	152 644 372	161 756 073	168 710 732	171 709 470	174 219 504
Least Developed C.	55 016 374	63 168 287	73 299 243	89 956 745	88 843 125
Transition C.	12 359 331	14 389 608	12 577 468	12 116 361	12 137 129
<b>Total</b>	<b>311 864 443</b>	<b>337 375 396</b>	<b>361 800 355</b>	<b>378 992 038</b>	<b>379 850 872</b>

Annual per capita income:

High Income	95 969 366	102 967 428	112 339 912	110 437 389	110 139 114
Upper Middle Income	132 241 876	131 800 021	149 426 703	126 169 708	125 972 589
Lower Middle Income	30 160 727	41 085 860	27 968 527	53 270 112	54 896 082
Low Income	53 492 474	61 522 087	72 065 213	89 114 829	88 843 087
<b>Total</b>	<b>311 864 443</b>	<b>337 375 396</b>	<b>361 800 355</b>	<b>378 992 038</b>	<b>379 850 872</b>

Political stability:

Stable	0	0	0	0	0
Fair	109 522 350	114 451 365	123 960 848	115 363 767	111 567 814
Unstable	200 305 574	221 142 021	234 612 303	262 478 408	267 279 613
Extreme Unstable	2 036 519	1 782 010	3 227 204	1 149 863	1 003 445
<b>Total</b>	<b>311 864 443</b>	<b>337 375 396</b>	<b>361 800 355</b>	<b>378 992 038</b>	<b>379 850 872</b>

Country groups and economic blocks:

ACP	66 315 731	76 221 830	85 357 610	99 542 683	97 030 800
ASEAN	5 128 380	15 183 235	21 193 301	30 064 610	29 928 764
BRICS	135 093 206	133 874 619	133 727 827	129 925 348	133 408 547
CPE	70 955 000	74 320 700	77 023 700	73 610 000	72 500 000
EC	2 071 677	1 714 135	1 514 225	1 566 211	1 384 710
EFTA	0	0	0	0	0
G7	483 112	538 500	275 660	139 936	142 764
MERCOSUR	38 314 100	32 469 000	31 987 900	32 897 800	35 971 600
NAFTA/USMCA	352 100	399 700	154 900	16 440	0
OECD	93 551 295	98 727 790	109 454 050	107 876 948	108 104 739
SADC	3 194	9 919	8 024	6 517	7 890

## Beryllium (concentrates)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	3 760	4 170	4 050	4 160	4 380
Developing C.	1 319	1 324	1 760	1 762	1 760
Least Developed C.	227	617	117	318	576
Transition C.	0	0	0	0	0
<b>Total</b>	<b>5 306</b>	<b>6 111</b>	<b>5 927</b>	<b>6 240</b>	<b>6 716</b>
Annual per capita income:					
High Income	3 760	4 170	4 050	4 160	4 380
Upper Middle Income	1 319	1 289	1 759	1 760	1 760
Lower Middle Income	4	42	8	4	0
Low Income	223	610	110	316	576
<b>Total</b>	<b>5 306</b>	<b>6 111</b>	<b>5 927</b>	<b>6 240</b>	<b>6 716</b>
Political stability:					
Stable	0	0	0	0	0
Fair	3 794	4 207	4 070	4 180	4 406
Unstable	1 512	1 869	1 856	1 978	2 310
Extreme Unstable	0	35	1	82	0
<b>Total</b>	<b>5 306</b>	<b>6 111</b>	<b>5 927</b>	<b>6 240</b>	<b>6 716</b>

Country groups and economic blocks:

ACP	227	652	118	320	576
ASEAN	0	0	0	0	0
BRICS	1 319	1 289	1 759	1 760	1 760
CPE	1 250	1 250	1 750	1 750	1 750
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	3 760	4 170	4 050	4 160	4 380
MERCOSUR	69	39	9	10	10
NAFTA/USMCA	3 760	4 170	4 050	4 160	4 380
OECD	3 760	4 170	4 050	4 160	4 380
SADC	197	563	82	112	366

## Bismuth

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	529	576	544	574	504
Developing C.	9 847	10 136	8 281	8 622	10 342
Least Developed C.	0	0	0	0	0
Transition C.	231	174	248	317	297
Total	10 607	10 886	9 073	9 513	11 143

Annual per capita income:

High Income	529	576	544	574	504
Upper Middle Income	7 667	7 632	7 610	7 889	8 543
Lower Middle Income	2 411	2 678	919	1 050	2 096
Low Income	0	0	0	0	0
Total	10 607	10 886	9 073	9 513	11 143

Political stability:

Stable	0	0	0	0	0
Fair	3 132	3 215	1 461	574	504
Unstable	7 475	7 671	7 612	8 939	10 639
Extreme Unstable	0	0	0	0	0
Total	10 607	10 886	9 073	9 513	11 143

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	2 403	2 639	917	993	2 067
BRICS	6 830	7 015	7 046	7 545	8 045
CPE	9 203	9 639	7 917	8 493	10 067
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	529	576	544	574	504
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	517	318	295	4	4
OECD	1 042	889	835	574	504
SADC	0	0	0	0	0

## Cadmium

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	6 772	6 388	6 081	6 006	10 270
Developing C.	15 833	18 095	16 354	15 825	11 530
Least Developed C.	0	0	0	0	0
Transition C.	4 172	2 288	2 450	2 950	2 970
<b>Total</b>	<b>26 777</b>	<b>26 771</b>	<b>24 885</b>	<b>24 781</b>	<b>24 770</b>
Annual per capita income:					
High Income	11 495	11 175	9 716	9 795	9 927
Upper Middle Income	14 729	15 159	14 769	14 386	14 223
Lower Middle Income	353	237	250	450	470
Low Income	200	200	150	150	150
<b>Total</b>	<b>26 777</b>	<b>26 771</b>	<b>24 885</b>	<b>24 781</b>	<b>24 770</b>
Political stability:					
Stable	0	0	0	0	0
Fair	14 518	11 562	10 031	10 106	10 270
Unstable	12 259	15 209	14 854	14 675	14 500
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>26 777</b>	<b>26 771</b>	<b>24 885</b>	<b>24 781</b>	<b>24 770</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	9 814	11 850	11 450	11 100	11 050
CPE	8 611	10 549	10 150	10 150	10 150
EC	2 262	2 098	1 994	1 771	1 939
EFTA	416	380	370	344	390
G7	4 824	4 430	4 337	4 391	4 391
MERCOSUR	276	374	530	146	50
NAFTA/USMCA	3 094	3 237	2 886	2 989	3 092
OECD	12 541	12 482	10 668	10 773	10 978
SADC	0	0	0	0	0

## Copper

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	3 665 356	3 592 265	3 596 148	3 507 733	3 370 294
Developing C.	12 604 659	12 850 918	12 644 911	12 627 441	13 172 877
Least Developed C.	2 226 692	2 486 601	2 677 504	2 941 604	3 040 780
Transition C.	1 587 153	1 771 360	1 731 418	1 778 922	1 831 419
<b>Total</b>	<b>20 083 860</b>	<b>20 701 144</b>	<b>20 649 981</b>	<b>20 855 700</b>	<b>21 415 370</b>



Annual per capita income:

High Income	9 126 866	9 361 660	9 483 398	9 199 463	9 288 114
Upper Middle Income	7 341 224	7 441 379	7 736 772	7 186 630	7 306 011
Lower Middle Income	2 467 533	2 608 256	1 942 179	2 732 918	2 047 540
Low Income	1 148 237	1 289 849	1 487 632	1 736 689	2 773 705
<b>Total</b>	<b>20 083 860</b>	<b>20 701 144</b>	<b>20 649 981</b>	<b>20 855 700</b>	<b>21 415 370</b>

Political stability:

Stable	0	0	0	0	0
Fair	11 102 957	10 860 983	10 019 070	9 846 558	10 517 836
Unstable	7 791 013	8 005 874	8 550 095	8 773 155	8 440 382
Extreme Unstable	1 189 890	1 834 287	2 080 816	2 235 987	2 457 152
<b>Total</b>	<b>20 083 860</b>	<b>20 701 144</b>	<b>20 649 981</b>	<b>20 855 700</b>	<b>21 415 370</b>

Country groups and economic blocks:

ACP	2 168 579	2 347 842	2 517 780	2 805 017	2 933 325
ASEAN	991 469	1 080 623	812 487	881 949	1 054 935
BRICS	2 949 124	2 954 172	2 940 204	3 050 626	3 225 648
CPE	2 057 420	1 968 530	2 005 670	2 042 730	2 239 610
EC	959 041	913 358	867 382	860 748	802 691
EFTA	0	0	0	0	0
G7	1 857 257	1 768 062	1 803 649	1 779 003	1 771 708
MERCOSUR	417 845	403 197	363 268	353 258	335 761
NAFTA/USMCA	2 599 440	2 464 591	2 517 313	2 579 282	2 505 785
OECD	9 876 566	10 085 132	10 046 429	10 040 765	9 733 365
SADC	2 000 843	2 179 522	2 347 913	2 659 467	2 812 650

## Gallium

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	3	3	3	3	5
Developing C.	293	308	358	292	420
Least Developed C.	0	0	0	0	0
Transition C.	14	12	13	9	9
<b>Total</b>	<b>310</b>	<b>323</b>	<b>374</b>	<b>304</b>	<b>434</b>

Annual per capita income:

High Income	6	6	5	5	5
Upper Middle Income	295	311	364	295	425
Lower Middle Income	9	6	5	4	4
Low Income	0	0	0	0	0
<b>Total</b>	<b>310</b>	<b>323</b>	<b>374</b>	<b>304</b>	<b>434</b>

Political stability:

Stable	0	0	0	0	0
Fair	6	6	5	5	5
Unstable	295	311	364	299	429
Extreme Unstable	9	6	5	0	0
<b>Total</b>	<b>310</b>	<b>323</b>	<b>374</b>	<b>304</b>	<b>434</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	295	311	364	295	425
CPE	290	305	356	290	420
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	3	3	3	3	3
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	6	6	5	5	5
SADC	0	0	0	0	0

## Germanium

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	4	4	4	4	4
Developing C.	87	95	85	86	132
Least Developed C.	0	0	0	0	0
Transition C.	7	7	6	6	6
<b>Total</b>	<b>98</b>	<b>106</b>	<b>95</b>	<b>96</b>	<b>142</b>
Annual per capita income:					
High Income	4	4	4	4	4
Upper Middle Income	93	101	90	91	137
Lower Middle Income	1	1	1	1	1
Low Income	0	0	0	0	0
<b>Total</b>	<b>98</b>	<b>106</b>	<b>95</b>	<b>96</b>	<b>142</b>
Political stability:					
Stable	0	0	0	0	0
Fair	4	4	4	4	4
Unstable	93	101	90	92	138
Extreme Unstable	1	1	1	0	0
<b>Total</b>	<b>98</b>	<b>106</b>	<b>95</b>	<b>96</b>	<b>142</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	93	101	90	91	137
CPE	87	95	85	86	132
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	4	4	4	4	4
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	2	2	2	2	2
OECD	4	4	4	4	4
SADC	0	0	0	0	0

## Indium

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	197	191	189	187	360
Developing C.	580	635	722	745	547
Least Developed C.	0	0	0	0	0
Transition C.	5	4	6	10	10
Total	782	830	917	942	917
Annual per capita income:					
High Income	412	426	414	397	360
Upper Middle Income	370	404	503	545	557
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	782	830	917	942	917
Political stability:					
Stable	0	0	0	0	0
Fair	412	426	414	397	340
Unstable	370	404	503	545	577
Extreme Unstable	0	0	0	0	0
Total	782	830	917	942	917
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	365	399	496	538	550
CPE	355	395	490	528	540
EC	60	63	58	60	60
EFTA	0	0	0	0	0
G7	177	171	169	167	150
MERCOSUR	5	0	0	0	0
NAFTA/USMCA	67	58	61	61	44
OECD	412	426	414	397	360
SADC	0	0	0	0	0

## Lead

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	897 213	936 453	1 009 919	1 003 850	1 032 183
Developing C.	3 271 009	3 234 957	3 479 694	3 357 990	3 259 163
Least Developed C.	19 450	25 260	35 340	28 890	18 620
Transition C.	466 520	432 770	416 640	354 900	370 630
<b>Total</b>	<b>4 654 192</b>	<b>4 629 440</b>	<b>4 941 593</b>	<b>4 745 630</b>	<b>4 680 596</b>
Annual per capita income:					
High Income	919 090	914 105	988 506	985 726	1 010 455
Upper Middle Income	3 214 220	3 163 052	3 420 277	3 171 911	3 037 082
Lower Middle Income	424 292	464 293	442 240	563 993	608 059
Low Income	96 590	87 990	90 570	24 000	25 000
<b>Total</b>	<b>4 654 192</b>	<b>4 629 440</b>	<b>4 941 593</b>	<b>4 745 630</b>	<b>4 680 596</b>
Political stability:					
Stable	0	0	0	0	0
Fair	1 070 440	1 035 796	1 083 906	1 058 296	1 082 565
Unstable	3 481 452	3 420 404	3 646 977	3 551 340	3 458 254
Extreme Unstable	102 300	173 240	210 710	135 994	139 777
<b>Total</b>	<b>4 654 192</b>	<b>4 629 440</b>	<b>4 941 593</b>	<b>4 745 630</b>	<b>4 680 596</b>
Country groups and economic blocks:					
ACP	79 715	82 689	108 806	87 038	116 854
ASEAN	27 685	50 640	57 290	48 280	36 155
BRICS	2 512 529	2 487 415	2 550 631	2 419 379	2 448 231
CPE	2 124 990	2 119 200	2 184 000	2 049 500	2 081 050
EC	171 546	192 008	212 326	208 809	188 910
EFTA	0	0	0	0	0
G7	330 577	297 974	296 758	300 870	356 256
MERCOSUR	47 094	35 537	48 672	28 359	23 405
NAFTA/USMCA	573 499	528 743	668 714	769 256	628 387
OECD	1 196 967	1 220 964	1 431 572	1 535 732	1 376 346
SADC	53 955	39 409	49 256	36 938	41 354

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

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	100 740	126 364	109 060	90 800	116 330
Developing C.	61 983	72 566	83 005	96 155	116 200
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
<b>Total</b>	<b>162 723</b>	<b>198 930</b>	<b>192 065</b>	<b>186 955</b>	<b>232 530</b>

Annual per capita income:

High Income	145 620	165 214	154 000	140 530	181 390
Upper Middle Income	15 233	30 496	35 245	45 485	49 040
Lower Middle Income	20	3 220	2 820	940	2 100
Low Income	1 850	0	0	0	0
<b>Total</b>	<b>162 723</b>	<b>198 930</b>	<b>192 065</b>	<b>186 955</b>	<b>232 530</b>

Political stability:

Stable	0	0	0	0	0
Fair	145 620	179 624	154 000	140 530	181 390
Unstable	17 103	19 256	38 055	46 425	51 120
Extreme Unstable	0	50	10	0	20
<b>Total</b>	<b>162 723</b>	<b>198 930</b>	<b>192 065</b>	<b>186 955</b>	<b>232 530</b>

Country groups and economic blocks:

ACP	1 850	3 810	2 660	860	1 690
ASEAN	0	0	0	0	0
BRICS	15 233	16 086	21 575	32 865	36 170
CPE	14 700	15 300	19 000	28 800	30 500
EC	604	914	710	280	225
EFTA	0	0	0	0	0
G7	1 486	10 250	2 650	1 220	2 505
MERCOSUR	12 893	14 596	16 245	16 685	18 540
NAFTA/USMCA	1 486	10 250	2 650	1 220	2 505
OECD	133 260	165 214	154 000	140 530	181 390
SADC	1 850	3 760	2 650	860	1 670

## Mercury

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	15	15	15	15	15
Developing C.	2 221	2 591	2 148	2 065	1 442
Least Developed C.	0	0	0	0	0
Transition C.	160	258	150	210	200
<b>Total</b>	<b>2 396</b>	<b>2 864</b>	<b>2 313</b>	<b>2 290</b>	<b>1 657</b>

Annual per capita income:

High Income	74	18	15	15	15
Upper Middle Income	2 202	2 633	2 196	2 093	1 470
Lower Middle Income	20	93	22	182	172
Low Income	100	120	80	0	0
<b>Total</b>	<b>2 396</b>	<b>2 864</b>	<b>2 313</b>	<b>2 290</b>	<b>1 657</b>

Political stability:

Stable	0	0	0	0	0
Fair	74	68	15	15	15
Unstable	2 322	2 796	2 298	2 275	1 642
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>2 396</b>	<b>2 864</b>	<b>2 313</b>	<b>2 290</b>	<b>1 657</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	1 999	2 353	2 096	2 023	1 430
CPE	1 949	2 303	2 046	1 993	1 400
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	15	15	15	15	15
MERCOSUR	54	50	50	0	0
NAFTA/USMCA	215	245	65	85	55
OECD	220	248	65	85	55
SADC	0	0	0	0	0

## Rare Earth Minerals (REO-Content)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	17 264	32 556	45 280	57 943	64 383
Developing C.	108 440	123 610	134 970	142 960	171 210
Least Developed C.	5 031	23 431	20 495	25 596	31 334
Transition C.	2 500	2 596	2 620	2 663	2 276
<b>Total</b>	<b>133 235</b>	<b>182 193</b>	<b>203 365</b>	<b>229 162</b>	<b>269 203</b>
Annual per capita income:					
High Income	17 264	32 556	45 280	57 943	64 383
Upper Middle Income	109 580	124 096	135 070	143 123	170 886
Lower Middle Income	6 360	22 510	19 620	23 500	29 700
Low Income	31	3 031	3 395	4 596	4 234
<b>Total</b>	<b>133 235</b>	<b>182 193</b>	<b>203 365</b>	<b>229 162</b>	<b>269 203</b>
Political stability:					
Stable	0	0	0	0	0
Fair	17 444	33 546	45 350	57 953	64 413
Unstable	115 760	127 616	140 720	149 913	177 556
Extreme Unstable	31	21 031	17 295	21 296	27 234
<b>Total</b>	<b>133 235</b>	<b>182 193</b>	<b>203 365</b>	<b>229 162</b>	<b>269 203</b>

Country groups and economic blocks:

ACP	31	3 031	3 395	4 596	4 234
ASEAN	5 180	21 390	17 170	21 010	27 130
BRICS	110 760	125 216	137 520	145 613	173 456
CPE	105 000	120 000	132 000	140 000	168 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	14 000	27 620	38 503	42 413
MERCOSUR	1 900	510	380	450	580
NAFTA/USMCA	0	14 000	27 620	38 503	42 413
OECD	17 264	32 556	45 280	57 943	64 383
SADC	0	2 400	3 200	4 300	4 100

## Rhenium

	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg
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Development status:

Developed C.	15 764	14 510	14 130	15 410	15 691
Developing C.	22 951	28 552	26 503	17 049	21 331
Least Developed C.	0	0	0	0	0
Transition C.	4 890	3 380	3 110	4 260	5 540
<b>Total</b>	<b>43 605</b>	<b>46 442</b>	<b>43 743</b>	<b>36 719</b>	<b>42 562</b>

Annual per capita income:

High Income	36 215	40 562	38 133	29 959	34 522
Upper Middle Income	6 860	5 380	4 810	5 760	5 670
Lower Middle Income	530	500	800	1 000	2 370
Low Income	0	0	0	0	0
<b>Total</b>	<b>43 605</b>	<b>46 442</b>	<b>43 743</b>	<b>36 719</b>	<b>42 562</b>

Political stability:

Stable	0	0	0	0	0
Fair	38 815	40 562	38 133	29 959	34 522
Unstable	4 790	5 880	5 610	6 760	8 040
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>43 605</b>	<b>46 442</b>	<b>43 743</b>	<b>36 719</b>	<b>42 562</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	4 000	3 500	3 500	4 500	4 500
CPE	2 500	2 500	2 500	2 500	2 500
EC	7 564	6 290	5 770	6 580	6 401
EFTA	0	0	0	0	0
G7	8 200	8 220	8 360	8 830	9 290
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	8 200	8 220	8 360	8 830	9 290
OECD	36 215	40 562	38 133	29 959	34 522
SADC	0	0	0	0	0

## Selenium

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	1 720	1 739	1 730	1 635	1 583
Developing C.	998	1 206	1 550	1 399	1 803
Least Developed C.	0	0	0	0	0
Transition C.	287	251	253	245	324
<b>Total</b>	<b>3 005</b>	<b>3 196</b>	<b>3 533</b>	<b>3 279</b>	<b>3 710</b>
Annual per capita income:					
High Income	1 720	1 739	1 730	1 635	1 583
Upper Middle Income	1 143	1 312	1 656	1 484	1 817
Lower Middle Income	142	145	147	160	310
Low Income	0	0	0	0	0
<b>Total</b>	<b>3 005</b>	<b>3 196</b>	<b>3 533</b>	<b>3 279</b>	<b>3 710</b>
Political stability:					
Stable	0	0	0	0	0
Fair	1 787	1 767	1 730	1 635	1 383
Unstable	1 218	1 429	1 803	1 644	2 327
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>3 005</b>	<b>3 196</b>	<b>3 533</b>	<b>3 279</b>	<b>3 710</b>
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	100	100	100	100	200
BRICS	931	1 132	1 460	1 335	1 650
CPE	720	930	1 250	1 120	1 400
EC	740	734	744	727	736
EFTA	0	0	0	0	0
G7	1 280	1 305	1 286	1 208	1 147
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	300	344	373	274	262
OECD	1 832	1 846	1 857	1 741	1 718
SADC	0	0	0	0	0

## Tellurium

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	96	132	109	141	139
Developing C.	470	480	380	260	530
Least Developed C.	0	0	0	0	0
Transition C.	47	37	40	58	65
<b>Total</b>	<b>613</b>	<b>649</b>	<b>529</b>	<b>459</b>	<b>734</b>



Annual per capita income:

High Income	91	128	106	137	136
Upper Middle Income	519	519	421	319	593
Lower Middle Income	3	2	2	3	5
Low Income	0	0	0	0	0
<b>Total</b>	<b>613</b>	<b>649</b>	<b>529</b>	<b>459</b>	<b>734</b>

Political stability:

Stable	0	0	0	0	0
Fair	96	132	109	141	139
Unstable	517	517	420	318	595
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>613</b>	<b>649</b>	<b>529</b>	<b>459</b>	<b>734</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	514	515	418	315	590
CPE	470	480	380	260	530
EC	40	49	44	46	44
EFTA	0	0	0	0	0
G7	56	83	65	95	95
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	18	25	15	25	27
OECD	91	128	106	137	136
SADC	0	0	0	0	0

## Tin

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	7 762	7 283	7 947	8 337	9 052
Developing C.	224 780	240 873	230 828	215 520	205 581
Least Developed C.	82 353	67 466	53 376	50 896	53 083
Transition C.	1 011	1 531	2 471	2 559	3 317
<b>Total</b>	<b>315 906</b>	<b>317 153</b>	<b>294 622</b>	<b>277 312</b>	<b>271 033</b>
Annual per capita income:					
High Income	7 762	7 283	7 947	8 337	9 052
Upper Middle Income	115 842	128 708	202 851	137 972	140 734
Lower Middle Income	178 224	168 626	69 896	114 182	103 142
Low Income	14 078	12 536	13 928	16 821	18 105
<b>Total</b>	<b>315 906</b>	<b>317 153</b>	<b>294 622</b>	<b>277 312</b>	<b>271 033</b>

Political stability:

Stable	0	0	0	0	0
Fair	22 206	20 756	21 264	14 172	17 047
Unstable	274 926	224 975	216 425	208 939	197 321
Extreme Unstable	18 774	71 422	56 933	54 201	56 665
<b>Total</b>	<b>315 906</b>	<b>317 153</b>	<b>294 622</b>	<b>277 312</b>	<b>271 033</b>

Country groups and economic blocks:

ACP	22 338	20 386	20 853	23 068	25 645
ASEAN	156 705	147 399	125 846	96 616	78 699
BRICS	92 905	106 208	102 934	113 925	109 854
CPE	80 020	92 840	91 973	101 258	98 160
EC	360	412	209	219	280
EFTA	0	0	0	0	0
G7	255	220	0	0	0
MERCOSUR	17 081	17 591	14 867	16 893	15 517
NAFTA/USMCA	0	0	0	0	0
OECD	7 762	7 283	7 947	8 347	9 052
SADC	10 459	8 956	11 015	14 947	16 400

## Zinc

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	2 651 577	3 066 990	3 188 661	3 059 499	3 060 964
Developing C.	8 231 173	8 124 311	8 857 430	8 619 818	8 811 744
Least Developed C.	212 417	240 529	244 477	228 395	241 490
Transition C.	803 820	825 246	791 002	760 564	814 526
<b>Total</b>	<b>11 898 987</b>	<b>12 257 076</b>	<b>13 081 570</b>	<b>12 668 276</b>	<b>12 928 724</b>
Annual per capita income:					
High Income	2 709 064	3 103 840	3 206 491	3 101 581	3 093 579
Upper Middle Income	7 311 913	7 294 415	8 038 412	7 692 205	7 744 137
Lower Middle Income	1 549 803	1 519 282	1 490 560	1 633 265	1 833 118
Low Income	328 207	339 539	346 107	241 225	257 890
<b>Total</b>	<b>11 898 987</b>	<b>12 257 076</b>	<b>13 081 570</b>	<b>12 668 276</b>	<b>12 928 724</b>
Political stability:					
Stable	0	0	0	0	0
Fair	3 233 072	3 362 038	3 451 698	3 253 772	3 224 435
Unstable	8 456 088	8 499 751	9 197 300	9 111 015	9 419 299
Extreme Unstable	209 827	395 287	432 572	303 489	284 990
<b>Total</b>	<b>11 898 987</b>	<b>12 257 076</b>	<b>13 081 570</b>	<b>12 668 276</b>	<b>12 928 724</b>

Country groups and economic blocks:

ACP	395 185	445 316	570 741	527 112	550 861
ASEAN	40 530	48 420	53 145	43 710	37 080
BRICS	5 083 426	4 935 302	5 496 180	5 409 938	5 591 798
CPE	3 960 750	3 849 200	4 351 080	4 190 030	4 258 690
EC	678 837	791 245	775 340	779 055	727 276
EFTA	0	0	0	0	0
G7	1 120 576	1 128 964	1 076 000	965 534	1 014 158
MERCOSUR	179 740	191 823	182 865	185 652	166 101
NAFTA/USMCA	1 792 020	1 791 319	1 935 194	1 973 786	1 757 084
OECD	3 491 229	3 923 595	4 183 955	4 219 343	3 984 895
SADC	175 035	147 486	251 394	238 381	251 044

### 6.3.3 Precious Metals

#### Gold

	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg
Development status:					
Developed C.	756 031	782 946	761 606	744 722	763 366
Developing C.	1 698 315	1 707 372	1 651 438	1 476 979	1 440 950
Least Developed C.	394 765	378 555	352 366	409 204	451 716
Transition C.	487 374	515 613	562 555	574 756	579 151
<b>Total</b>	<b>3 336 485</b>	<b>3 384 486</b>	<b>3 327 965</b>	<b>3 205 661</b>	<b>3 235 183</b>
Annual per capita income:					
High Income	855 591	822 830	807 068	782 163	804 238
Upper Middle Income	1 485 867	1 527 720	1 628 271	1 467 503	1 431 728
Lower Middle Income	686 644	764 383	608 696	629 155	629 337
Low Income	308 383	269 553	283 930	326 840	369 880
<b>Total</b>	<b>3 336 485</b>	<b>3 384 486</b>	<b>3 327 965</b>	<b>3 205 661</b>	<b>3 235 183</b>
Political stability:					
Stable	10 288	10 045	8 217	5 860	5 815
Fair	1 185 483	976 184	1 048 993	989 401	974 708
Unstable	1 889 700	2 141 830	2 037 760	2 043 580	2 069 476
Extreme Unstable	251 014	256 427	232 995	166 820	185 184
<b>Total</b>	<b>3 336 485</b>	<b>3 384 486</b>	<b>3 327 965</b>	<b>3 205 661</b>	<b>3 235 183</b>

Country groups and economic blocks:

ACP	881 949	862 417	822 839	814 554	818 003
ASEAN	134 548	165 609	138 752	95 463	111 418
BRICS	915 100	884 975	882 195	869 735	842 200
CPE	456 548	432 344	407 005	396 125	358 698
EC	30 312	32 417	29 230	31 865	34 391
EFTA	0	0	0	0	0
G7	421 930	426 145	397 920	379 083	415 840
MERCOSUR	149 828	153 088	152 213	142 858	139 383
NAFTA/USMCA	542 374	560 826	525 435	514 242	534 300
OECD	932 973	977 232	965 135	1 040 848	1 049 474
SADC	254 947	243 623	232 137	215 951	242 679

## Palladium

	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg
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Development status:

Developed C.	34 378	36 739	38 757	37 267	30 405
Developing C.	93 935	94 023	93 624	80 454	98 255
Least Developed C.	0	0	0	0	0
Transition C.	76 320	92 625	93 028	82 181	83 930
<b>Total</b>	<b>204 633</b>	<b>223 387</b>	<b>225 409</b>	<b>199 902</b>	<b>212 590</b>

Annual per capita income:

High Income	34 378	36 739	38 757	37 267	30 405
Upper Middle Income	158 433	174 554	174 984	149 654	169 406
Lower Middle Income	0	12 094	11 668	12 981	12 779
Low Income	11 822	0	0	0	0
<b>Total</b>	<b>204 633</b>	<b>223 387</b>	<b>225 409</b>	<b>199 902</b>	<b>212 590</b>

Political stability:

Stable	0	0	0	0	0
Fair	34 428	36 794	38 757	37 267	30 405
Unstable	170 205	186 593	186 652	162 635	182 185
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>204 633</b>	<b>223 387</b>	<b>225 409</b>	<b>199 902</b>	<b>212 590</b>

Country groups and economic blocks:

ACP	92 535	92 723	92 324	79 154	96 955
ASEAN	0	0	0	0	0
BRICS	158 383	174 499	174 884	149 554	169 266
CPE	1 400	1 300	1 300	1 300	1 300
EC	1 028	1 162	704	862	1 040
EFTA	0	0	0	0	0
G7	32 740	35 147	37 663	35 985	28 985
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	32 740	35 147	37 663	35 985	28 985
OECD	34 378	36 739	38 757	37 267	30 405
SADC	92 535	92 723	92 324	79 154	96 955

## Platinum

	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg
Development status:					
Developed C.	12 414	13 319	13 548	13 946	11 519
Developing C.	149 824	154 526	149 524	129 911	159 476
Least Developed C.	0	0	0	0	0
Transition C.	22 403	21 376	22 430	21 762	19 870
<b>Total</b>	<b>184 641</b>	<b>189 221</b>	<b>185 502</b>	<b>165 619</b>	<b>190 865</b>
Annual per capita income:					
High Income	12 414	13 319	13 548	13 946	11 519
Upper Middle Income	157 970	161 199	158 097	136 669	164 614
Lower Middle Income	0	14 703	13 857	15 004	14 732
Low Income	14 257	0	0	0	0
<b>Total</b>	<b>184 641</b>	<b>189 221</b>	<b>185 502</b>	<b>165 619</b>	<b>190 865</b>
Political stability:					
Stable	0	0	0	0	0
Fair	12 417	13 325	13 548	13 946	11 519
Unstable	172 224	175 896	171 954	151 673	179 346
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>184 641</b>	<b>189 221</b>	<b>185 502</b>	<b>165 619</b>	<b>190 865</b>
Country groups and economic blocks:					
ACP	146 757	151 756	146 846	126 997	156 358
ASEAN	0	0	0	0	0
BRICS	157 400	160 923	157 909	136 233	163 966
CPE	2 500	2 500	2 500	2 500	2 500
EC	1 429	1 584	961	1 283	1 452
EFTA	0	0	0	0	0
G7	10 830	11 625	12 492	12 563	9 977
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	10 830	11 625	12 492	12 563	9 977
OECD	12 414	13 319	13 548	14 360	12 137
SADC	146 757	151 756	146 846	126 997	156 358

## Rhodium

	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg
Development status:					
Developed C.	700	850	930	830	620
Developing C.	19 948	19 942	20 769	18 340	22 209
Least Developed C.	0	0	0	0	0
Transition C.	2 426	2 146	2 115	1 800	1 650
<b>Total</b>	<b>23 074</b>	<b>22 938</b>	<b>23 814</b>	<b>20 970</b>	<b>24 479</b>

Annual per capita income:

High Income	700	850	930	830	620
Upper Middle Income	21 091	20 754	21 660	18 772	22 525
Lower Middle Income	0	1 334	1 224	1 368	1 334
Low Income	1 283	0	0	0	0
<b>Total</b>	<b>23 074</b>	<b>22 938</b>	<b>23 814</b>	<b>20 970</b>	<b>24 479</b>

Political stability:

Stable	0	0	0	0	0
Fair	700	850	930	830	620
Unstable	22 374	22 088	22 884	20 140	23 859
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>23 074</b>	<b>22 938</b>	<b>23 814</b>	<b>20 970</b>	<b>24 479</b>

Country groups and economic blocks:

ACP	19 948	19 942	20 769	18 340	22 209
ASEAN	0	0	0	0	0
BRICS	21 091	20 754	21 660	18 772	22 525
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	700	850	930	830	620
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	700	850	930	830	620
OECD	700	850	930	830	620
SADC	19 948	19 942	20 769	18 340	22 209

## Silver

	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg
Development status:					
Developed C.	4 568 097	4 612 895	4 655 841	4 674 379	4 755 530
Developing C.	19 669 817	20 498 270	20 631 642	18 832 083	18 467 163
Least Developed C.	70 200	96 150	106 697	127 168	123 653
Transition C.	2 746 409	2 628 690	2 691 482	2 708 931	2 592 576
<b>Total</b>	<b>27 054 523</b>	<b>27 836 005</b>	<b>28 085 662</b>	<b>26 342 561</b>	<b>25 938 922</b>

Annual per capita income:

High Income	6 821 152	5 931 686	5 971 992	6 207 729	6 167 147
Upper Middle Income	17 217 863	18 909 144	19 435 207	17 236 397	16 620 639
Lower Middle Income	2 913 599	2 858 930	2 558 557	2 764 619	3 015 115
Low Income	101 909	136 245	119 906	133 816	136 021
<b>Total</b>	<b>27 054 523</b>	<b>27 836 005</b>	<b>28 085 662</b>	<b>26 342 561</b>	<b>25 938 922</b>

Political stability:

Stable	8 022	6 332	4 060	1 393	3 055
Fair	8 179 542	7 295 528	6 238 597	6 511 759	6 418 180
Unstable	18 706 343	20 273 201	21 542 705	19 770 889	19 459 187
Extreme Unstable	160 616	260 944	300 300	58 520	58 500
<b>Total</b>	<b>27 054 523</b>	<b>27 836 005</b>	<b>28 085 662</b>	<b>26 342 561</b>	<b>25 938 922</b>

Country groups and economic blocks:

ACP	322 706	394 325	412 229	354 248	322 541
ASEAN	404 762	377 599	553 796	391 622	354 446
BRICS	5 660 027	5 615 553	5 590 243	5 598 143	5 556 756
CPE	3 757 590	3 579 120	3 597 864	3 533 562	3 640 635
EC	2 013 704	2 010 898	1 984 803	1 976 588	2 064 033
EFTA	0	0	0	0	0
G7	1 432 196	1 346 185	1 346 019	1 363 154	1 354 723
MERCOSUR	1 044 361	1 073 368	1 120 670	835 517	923 470
NAFTA/USMCA	7 237 822	8 580 930	8 824 024	8 779 416	7 463 026
OECD	11 784 483	13 370 767	13 639 157	13 743 492	12 390 543
SADC	83 313	65 758	79 618	62 225	66 100

## 6.3.4 Industrial Minerals

### Asbestos

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	0	0	0	0	0
Developing C.	254 120	281 439	137 205	197 057	292 256
Least Developed C.	0	0	0	0	0
Transition C.	902 950	955 817	1 000 300	935 211	1 000 100
<b>Total</b>	<b>1 157 070</b>	<b>1 237 256</b>	<b>1 137 505</b>	<b>1 132 268</b>	<b>1 292 356</b>

Annual per capita income:

High Income	26	0	0	0	0
Upper Middle Income	1 157 044	1 237 256	1 137 505	1 132 268	1 292 356
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>1 157 070</b>	<b>1 237 256</b>	<b>1 137 505</b>	<b>1 132 268</b>	<b>1 292 356</b>

Political stability:

Stable	0	0	0	0	0
Fair	192 726	0	0	0	0
Unstable	964 344	1 237 256	1 137 505	1 132 268	1 292 356
Extreme Unstable	0	0	0	0	0
<b>Total</b>	<b>1 157 070</b>	<b>1 237 256</b>	<b>1 137 505</b>	<b>1 132 268</b>	<b>1 292 356</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	964 344	1 034 356	926 805	904 868	1 042 256
CPE	125 000	170 000	125 000	120 000	120 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	129 120	111 439	12 205	77 057	172 256
NAFTA/USMCA	0	0	0	0	0
OECD	0	0	0	0	0
SADC	0	0	0	0	0

**Baryte**

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	561 835	596 532	608 456	283 065	458 498
Developing C.	7 565 237	7 952 598	8 150 948	6 753 327	6 602 720
Least Developed C.	36 531	44 658	61 039	98 920	39 623
Transition C.	790 900	1 038 500	693 600	710 300	1 268 500
<b>Total</b>	<b>8 954 503</b>	<b>9 632 288</b>	<b>9 514 043</b>	<b>7 845 612</b>	<b>8 369 341</b>

Annual per capita income:

High Income	513 388	526 532	536 456	242 065	386 498
Upper Middle Income	5 326 611	5 462 380	4 809 256	4 048 996	4 134 772
Lower Middle Income	3 110 304	3 639 176	4 164 331	3 550 551	3 844 071
Low Income	4 200	4 200	4 000	4 000	4 000
<b>Total</b>	<b>8 954 503</b>	<b>9 632 288</b>	<b>9 514 043</b>	<b>7 845 612</b>	<b>8 369 341</b>

Political stability:

Stable	0	0	0	0	0
Fair	1 250 613	688 757	700 056	379 343	495 901
Unstable	7 315 015	7 902 274	8 023 680	7 121 986	7 521 738
Extreme Unstable	388 875	1 041 257	790 307	344 283	351 702
<b>Total</b>	<b>8 954 503</b>	<b>9 632 288</b>	<b>9 514 043</b>	<b>7 845 612</b>	<b>8 369 341</b>

Country groups and economic blocks:

ACP	717	387	370	544	460
ASEAN	254 485	162 148	137 683	172 814	84 211
BRICS	5 387 490	5 663 433	5 811 258	5 266 849	4 952 361
CPE	3 174 200	2 954 200	2 947 000	2 555 500	2 243 600
EC	168 877	173 997	152 474	117 656	99 921
EFTA	0	0	0	0	0
G7	473 177	508 897	534 474	242 065	385 371
MERCOSUR	31 828	16 602	13 121	1 849	361
NAFTA/USMCA	743 912	782 234	869 180	646 363	628 092
OECD	1 150 194	1 357 904	1 365 447	1 008 226	963 960
SADC	0	0	0	0	0



## Bentonite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	7 313 162	7 781 091	7 743 148	6 913 035	7 537 553
Developing C.	12 615 538	12 670 936	12 702 702	10 723 347	10 133 950
Least Developed C.	885	1 631	77 734	80 689	119 192
Transition C.	1 276 485	1 337 398	1 257 090	1 189 430	996 280
<b>Total</b>	<b>21 206 070</b>	<b>21 791 056</b>	<b>21 780 674</b>	<b>18 906 501</b>	<b>18 786 975</b>
Annual per capita income:					
High Income	7 443 337	7 741 391	7 749 159	6 848 674	7 430 685
Upper Middle Income	9 925 780	9 928 006	9 898 330	7 102 666	6 115 672
Lower Middle Income	3 836 668	4 120 568	4 055 451	4 874 972	5 121 926
Low Income	285	1 091	77 734	80 189	118 692
<b>Total</b>	<b>21 206 070</b>	<b>21 791 056</b>	<b>21 780 674</b>	<b>18 906 501</b>	<b>18 786 975</b>
Political stability:					
Stable	700	4 482	500	500	500
Fair	6 557 531	8 002 317	7 794 163	6 935 055	7 557 450
Unstable	13 005 652	11 775 690	11 518 353	11 067 831	10 015 498
Extreme Unstable	1 642 187	2 008 567	2 467 658	903 115	1 213 527
<b>Total</b>	<b>21 206 070</b>	<b>21 791 056</b>	<b>21 780 674</b>	<b>18 906 501</b>	<b>18 786 975</b>
Country groups and economic blocks:					
ACP	166 015	175 207	183 322	166 233	217 815
ASEAN	3 220	11 340	13 050	5 220	6 559
BRICS	10 540 034	10 648 936	10 433 847	8 412 613	6 868 606
CPE	5 600 589	5 600 630	5 600 504	3 650 486	2 500 517
EC	2 544 462	2 866 045	2 916 648	2 369 822	2 603 349
EFTA	0	3 234	0	0	12 803
G7	5 226 603	5 334 763	5 254 720	4 934 989	5 271 252
MERCOSUR	780 319	692 729	530 493	331 605	372 945
NAFTA/USMCA	4 598 475	4 834 800	4 544 321	4 329 219	4 670 000
OECD	8 814 446	9 231 586	9 175 220	8 657 428	9 481 029
SADC	165 426	174 577	182 818	165 747	217 298

## Boron Minerals

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	1 075 000	1 075 000	1 030 000	830 000	900 000
Developing C.	3 041 232	3 299 429	3 151 476	2 655 866	3 900 204
Least Developed C.	0	0	0	0	0
Transition C.	112 500	118 000	111 800	115 500	119 600
<b>Total</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 293 276</b>	<b>3 601 366</b>	<b>4 919 804</b>

Annual per capita income:

High Income	1 811 994	1 473 411	1 382 255	1 118 103	1 263 032
Upper Middle Income	2 208 350	2 802 615	2 696 752	2 223 749	3 344 832
Lower Middle Income	208 388	216 403	214 269	259 514	311 940
Low Income	0	0	0	0	0
<b>Total</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 293 276</b>	<b>3 601 366</b>	<b>4 919 804</b>

Political stability:

Stable	0	0	0	0	0
Fair	1 841 994	1 544 623	1 382 255	1 118 103	1 263 032
Unstable	361 738	514 955	868 995	2 481 768	3 654 772
Extreme Unstable	2 025 000	2 432 851	2 042 026	1 495	2 000
<b>Total</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 293 276</b>	<b>3 601 366</b>	<b>4 919 804</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	152 500	168 000	331 800	335 500	339 600
CPE	70 000	80 000	250 000	250 000	250 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1 075 000	1 075 000	1 030 000	830 000	900 000
MERCOSUR	129 918	71 212	181 818	134 604	188 870
NAFTA/USMCA	1 075 000	1 075 000	1 030 000	830 000	900 000
OECD	3 707 076	3 905 411	3 422 255	2 798 103	3 803 032
SADC	0	0	0	0	0

## Diamonds (Gem)

	2017 ct	2018 ct	2019 ct	2020 ct	2021 ct
Development status:					
Developed C.	23 541 451	23 069 161	17 803 300	14 589 107	17 353 418
Developing C.	23 225 440	24 815 721	22 236 631	17 814 232	22 814 562
Least Developed C.	12 534 616	12 602 883	12 358 115	11 095 463	11 696 457
Transition C.	21 860 500	22 973 133	25 804 591	18 711 931	23 470 180
<b>Total</b>	<b>81 162 007</b>	<b>83 460 898</b>	<b>78 202 637</b>	<b>62 210 733</b>	<b>75 334 617</b>

Annual per capita income:

High Income	23 541 451	23 069 161	17 803 300	14 589 107	17 353 418
Upper Middle Income	44 242 175	46 748 682	47 576 062	35 962 821	45 392 241
Lower Middle Income	9 712 734	10 824 955	10 142 291	8 287 935	9 135 878
Low Income	3 665 647	2 818 100	2 680 984	3 370 870	3 453 080
<b>Total</b>	<b>81 162 007</b>	<b>83 460 898</b>	<b>78 202 637</b>	<b>62 210 733</b>	<b>75 334 617</b>

Political stability:

Stable	0	0	0	0	0
Fair	41 383 491	42 119 431	36 134 060	27 845 382	34 730 922
Unstable	37 462 344	39 514 062	40 026 087	31 726 237	37 934 368
Extreme Unstable	2 316 172	1 827 405	2 042 490	2 639 114	2 669 327
<b>Total</b>	<b>81 162 007</b>	<b>83 460 898</b>	<b>78 202 637</b>	<b>62 210 733</b>	<b>75 334 617</b>

Country groups and economic blocks:

ACP	35 662 771	37 321 018	34 531 154	28 862 570	34 463 892
ASEAN	0	0	0	0	0
BRICS	26 443 495	27 664 909	29 241 393	22 716 562	28 023 790
CPE	230	99	51	21	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	23 198 761	22 789 001	17 560 210	14 389 507	17 353 418
MERCOSUR	84 115	83 610	53 240	42 094	47 127
NAFTA/USMCA	23 198 761	22 789 001	17 560 210	14 389 507	17 353 418
OECD	23 541 451	23 069 161	17 803 300	14 593 119	17 357 539
SADC	35 159 016	36 545 623	33 798 361	28 041 878	33 524 171

## Diamonds (Ind)

	2017 ct	2018 ct	2019 ct	2020 ct	2021 ct
Development status:					
Developed C.	16 792 040	13 727 890	11 911 450	9 780 400	0
Developing C.	14 213 596	15 282 078	12 851 430	11 900 705	15 605 900
Least Developed C.	17 827 932	14 761 230	12 900 499	11 317 795	11 670 180
Transition C.	20 754 280	20 187 926	19 466 621	12 474 620	15 646 790
<b>Total</b>	<b>69 587 848</b>	<b>63 959 124</b>	<b>57 130 000</b>	<b>45 473 520</b>	<b>42 922 870</b>
Annual per capita income:					
High Income	16 792 040	13 727 890	11 911 450	9 780 400	0
Upper Middle Income	33 117 485	33 107 536	30 592 726	22 211 390	27 854 656
Lower Middle Income	1 038 771	3 305 858	2 699 985	2 976 935	4 279 724
Low Income	18 639 552	13 817 840	11 925 839	10 504 795	10 788 490
<b>Total</b>	<b>69 587 848</b>	<b>63 959 124</b>	<b>57 130 000</b>	<b>45 473 520</b>	<b>42 922 870</b>
Political stability:					
Stable	0	0	0	0	0
Fair	23 781 925	21 145 800	19 114 985	14 921 040	6 895 791
Unstable	29 159 531	29 492 144	26 558 528	20 182 272	25 627 161
Extreme Unstable	16 646 392	13 321 180	11 456 487	10 370 208	10 399 918
<b>Total</b>	<b>69 587 848</b>	<b>63 959 124</b>	<b>57 130 000</b>	<b>45 473 520</b>	<b>42 922 870</b>

Country groups and economic blocks:

ACP	31 843 988	29 849 418	25 625 329	23 125 750	27 181 054
ASEAN	0	0	0	0	0
BRICS	26 158 705	25 697 456	23 400 716	17 079 910	20 958 686
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	170 780	169 330	108 085	83 840	94 760
NAFTA/USMCA	0	0	0	0	0
OECD	16 792 040	13 727 890	11 911 450	9 780 400	0
SADC	31 558 867	29 327 490	25 123 520	22 952 890	26 742 356

**Diatomite**

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	1 130 856	1 297 380	1 127 031	1 186 582	1 417 632
Developing C.	1 032 620	923 027	1 043 613	978 842	870 964
Least Developed C.	4 000	39 200	77 439	40 257	77 914
Transition C.	75 465	50 600	51 000	51 000	176 800
Total	2 242 941	2 310 207	2 299 083	2 256 681	2 543 310

Annual per capita income:

High Income	1 362 573	1 348 018	1 189 269	1 273 299	1 444 728
Upper Middle Income	874 962	921 441	1 029 017	938 987	1 011 355
Lower Middle Income	1 406	1 548	3 358	4 138	9 313
Low Income	4 000	39 200	77 439	40 257	77 914
Total	2 242 941	2 310 207	2 299 083	2 256 681	2 543 310

Political stability:

Stable	0	0	0	0	0
Fair	1 366 791	1 424 480	1 193 269	1 277 299	1 448 728
Unstable	702 566	637 938	879 457	938 955	1 084 032
Extreme Unstable	173 584	247 789	226 357	40 427	10 550
Total	2 242 941	2 310 207	2 299 083	2 256 681	2 543 310

Country groups and economic blocks:

ACP	5 406	40 748	78 360	41 185	78 677
ASEAN	0	0	0	0	0
BRICS	482 192	351 162	488 673	506 574	387 465
CPE	400 000	280 000	420 000	420 000	200 000
EC	361 771	340 376	359 023	362 571	344 081
EFTA	0	0	0	0	0
G7	914 721	1 105 340	911 802	963 511	1 146 519
MERCOSUR	100 611	93 052	112 283	134 149	167 007
NAFTA/USMCA	864 474	1 109 028	897 274	966 105	1 158 956
OECD	1 558 212	1 742 835	1 539 300	1 517 731	1 817 416
SADC	0	34 200	72 439	35 257	72 914

## Feldspar

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	5 052 331	5 025 688	5 046 489	5 032 046	5 937 295
Developing C.	26 057 799	29 626 001	25 566 451	24 481 466	29 517 300
Least Developed C.	29 000	36 000	17 000	25 000	6 400
Transition C.	349 537	362 113	370 819	353 115	376 625
<b>Total</b>	<b>31 488 667</b>	<b>35 049 802</b>	<b>31 000 759</b>	<b>29 891 627</b>	<b>35 837 620</b>
Annual per capita income:					
High Income	6 121 069	5 801 617	5 659 542	5 951 011	6 466 535
Upper Middle Income	17 657 161	19 381 227	18 147 790	15 832 411	18 357 601
Lower Middle Income	7 710 437	9 866 958	7 176 427	8 083 205	11 007 084
Low Income	0	0	17 000	25 000	6 400
<b>Total</b>	<b>31 488 667</b>	<b>35 049 802</b>	<b>31 000 759</b>	<b>29 891 627</b>	<b>35 837 620</b>
Political stability:					
Stable	0	0	0	0	0
Fair	6 353 988	6 189 164	5 687 831	5 702 111	6 123 905
Unstable	14 235 638	15 757 048	13 013 667	21 861 483	26 377 818
Extreme Unstable	10 899 041	13 103 590	12 299 261	2 328 033	3 335 897
<b>Total</b>	<b>31 488 667</b>	<b>35 049 802</b>	<b>31 000 759</b>	<b>29 891 627</b>	<b>35 837 620</b>
Country groups and economic blocks:					
ACP	187 080	158 358	130 057	106 980	135 310
ASEAN	4 445 129	2 328 544	2 020 132	1 679 744	1 875 767
BRICS	7 699 855	11 936 649	9 612 901	8 059 000	9 728 155
CPE	2 508 715	2 503 000	2 452 100	2 464 100	2 467 800
EC	4 524 102	4 387 146	4 516 439	4 531 805	4 549 934
EFTA	87 900	88 000	80 000	69 000	60 000
G7	3 466 747	3 552 693	3 385 289	3 351 527	3 263 007
MERCOSUR	705 085	747 164	672 449	512 783	553 282
NAFTA/USMCA	940 692	1 457 755	966 196	1 333 385	712 102
OECD	16 543 194	18 007 438	15 387 448	16 516 943	19 273 243
SADC	116 705	76 803	76 255	48 427	67 113

## Fluorspar

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	211 306	256 385	319 144	315 891	266 829
Developing C.	5 528 465	6 697 279	7 287 680	7 373 845	8 029 082
Least Developed C.	7 522	10 000	50 000	10 000	10 000
Transition C.	2 700	6 400	5 000	42 000	86 000
<b>Total</b>	<b>5 749 993</b>	<b>6 970 064</b>	<b>7 661 824</b>	<b>7 741 736</b>	<b>8 391 911</b>

Annual per capita income:

High Income	225 002	256 385	319 144	315 891	266 829
Upper Middle Income	4 869 303	5 809 719	6 262 902	6 335 702	6 979 390
Lower Middle Income	641 266	886 660	1 021 878	1 073 243	1 129 692
Low Income	14 422	17 300	57 900	16 900	16 000
<b>Total</b>	<b>5 749 993</b>	<b>6 970 064</b>	<b>7 661 824</b>	<b>7 741 736</b>	<b>8 391 911</b>

Political stability:

Stable	0	0	0	0	0
Fair	779 237	1 058 239	1 256 547	994 791	911 129
Unstable	4 939 821	5 837 848	6 277 137	6 658 407	7 401 666
Extreme Unstable	30 935	73 977	128 140	88 538	79 116
<b>Total</b>	<b>5 749 993</b>	<b>6 970 064</b>	<b>7 661 824</b>	<b>7 741 736</b>	<b>8 391 911</b>

Country groups and economic blocks:

ACP	225 344	230 000	214 730	347 557	406 275
ASEAN	240 405	255 400	260 250	229 727	224 793
BRICS	4 047 935	3 765 274	4 239 714	4 687 782	5 905 395
CPE	4 361 135	4 300 830	4 944 303	5 205 720	6 265 327
EC	211 306	236 385	239 144	265 891	200 155
EFTA	0	0	0	0	0
G7	56 375	80 197	173 959	129 933	123 306
MERCOSUR	39 218	36 119	25 899	72 730	76 158
NAFTA/USMCA	741 678	1 979 654	2 011 532	1 621 269	1 057 118
OECD	973 134	2 222 239	2 265 076	1 907 056	1 284 295
SADC	218 399	230 000	210 000	330 000	400 000

## Graphite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	24 172	21 372	21 132	13 377	32 571
Developing C.	825 552	823 319	880 813	838 896	935 333
Least Developed C.	14 102	156 951	198 106	79 564	165 226
Transition C.	32 500	26 900	27 500	22 900	34 300
<b>Total</b>	<b>896 326</b>	<b>1 028 542</b>	<b>1 127 551</b>	<b>954 737</b>	<b>1 167 430</b>

Annual per capita income:

High Income	24 172	22 042	21 434	16 429	32 571
Upper Middle Income	756 026	749 019	811 737	762 158	860 969
Lower Middle Income	50 449	55 530	51 274	51 586	78 664
Low Income	65 679	201 951	243 106	124 564	195 226
<b>Total</b>	<b>896 326</b>	<b>1 028 542</b>	<b>1 127 551</b>	<b>954 737</b>	<b>1 167 430</b>

Political stability:

Stable	0	0	0	0	0
Fair	26 388	26 998	24 934	16 429	32 571
Unstable	852 938	969 792	1 082 627	920 149	1 134 859
Extreme Unstable	17 000	31 752	19 990	18 159	0
<b>Total</b>	<b>896 326</b>	<b>1 028 542</b>	<b>1 127 551</b>	<b>954 737</b>	<b>1 167 430</b>

Country groups and economic blocks:

ACP	17 895	160 407	198 106	79 564	165 226
ASEAN	0	1 500	3 500	3 700	1 200
BRICS	773 149	759 911	833 944	780 306	888 119
CPE	675 000	676 500	748 500	713 700	766 200
EC	572	372	307	208	281
EFTA	9 600	10 000	9 780	5 549	6 293
G7	14 422	11 222	11 252	7 728	7 881
MERCOSUR	95 000	78 981	81 770	67 020	78 555
NAFTA/USMCA	24 310	15 130	13 387	9 653	9 478
OECD	38 482	42 924	33 766	33 667	62 685
SADC	17 895	160 407	198 106	79 564	165 226

## Gypsum and Anhydrite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	50 896 685	56 151 011	54 752 501	55 255 708	59 519 600
Developing C.	96 581 332	101 074 330	96 449 817	101 896 985	102 301 625
Least Developed C.	1 908 063	2 375 840	2 325 510	2 411 124	2 840 354
Transition C.	6 519 184	8 313 205	7 086 301	6 903 255	8 168 374
<b>Total</b>	<b>155 905 264</b>	<b>167 914 386</b>	<b>160 614 129</b>	<b>166 467 072</b>	<b>172 829 953</b>
Annual per capita income:					
High Income	64 065 259	69 242 067	70 096 798	70 108 636	76 733 770
Upper Middle Income	81 638 539	85 278 829	76 587 522	64 119 081	66 558 693
Lower Middle Income	9 781 519	12 719 265	13 335 127	31 681 576	29 022 141
Low Income	419 947	674 225	594 682	557 779	515 349
<b>Total</b>	<b>155 905 264</b>	<b>167 914 386</b>	<b>160 614 129</b>	<b>166 467 072</b>	<b>172 829 953</b>
Political stability:					
Stable	330 000	330 000	330 000	0	0
Fair	62 212 862	68 785 507	68 058 911	69 002 517	76 073 024
Unstable	76 930 972	71 006 100	63 974 631	78 160 754	78 144 963
Extreme Unstable	16 431 430	27 792 779	28 250 587	19 303 801	18 611 966
<b>Total</b>	<b>155 905 264</b>	<b>167 914 386</b>	<b>160 614 129</b>	<b>166 467 072</b>	<b>172 829 953</b>

Country groups and economic blocks:

ACP	1 381 175	1 604 725	1 627 433	2 048 144	2 276 413
ASEAN	11 470 698	12 125 783	10 692 990	10 275 488	11 676 197
BRICS	33 295 168	38 105 436	35 305 102	38 905 385	36 341 201
CPE	25 141 400	25 147 600	25 173 430	25 160 200	25 164 600
EC	23 476 924	27 244 291	26 426 971	27 170 017	29 202 942
EFTA	417 891	419 655	432 100	413 602	412 794
G7	32 934 730	35 794 052	34 153 140	32 804 763	34 576 241
MERCOSUR	3 456 464	3 567 719	3 608 167	3 355 235	3 582 075
NAFTA/USMCA	32 898 910	35 615 744	31 904 102	32 227 777	30 822 261
OECD	69 826 955	77 556 688	69 188 820	71 860 506	75 849 672
SADC	476 330	595 248	565 631	681 468	925 429

## Kaolin

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	17 447 100	17 274 410	16 267 051	15 099 583	16 164 533
Developing C.	22 853 397	23 503 553	23 751 433	22 513 440	21 804 229
Least Developed C.	79 779	167 864	55 791	131 168	115 650
Transition C.	4 815 777	4 466 865	4 138 550	4 889 505	5 252 032
Total	45 196 053	45 412 692	44 212 825	42 633 696	43 336 444

Annual per capita income:

High Income	18 016 153	17 719 507	16 551 078	15 527 312	16 093 446
Upper Middle Income	14 502 130	15 181 446	16 860 706	12 823 038	12 920 044
Lower Middle Income	12 603 437	12 354 875	10 760 593	14 250 632	14 308 254
Low Income	74 333	156 864	40 448	32 714	14 700
Total	45 196 053	45 412 692	44 212 825	42 633 696	43 336 444

Political stability:

Stable	50 424	51 369	50 569	50 000	55 000
Fair	18 945 864	18 685 816	17 106 331	15 884 909	16 424 426
Unstable	22 141 239	21 857 200	22 055 788	24 732 240	25 468 247
Extreme Unstable	4 058 526	4 818 307	5 000 137	1 966 547	1 388 771
Total	45 196 053	45 412 692	44 212 825	42 633 696	43 336 444

Country groups and economic blocks:

ACP	160 400	206 995	95 367	161 672	170 623
ASEAN	1 391 578	2 088 056	3 362 736	2 200 085	2 049 103
BRICS	18 960 238	18 046 825	17 430 237	18 238 230	17 776 852
CPE	7 011 500	6 752 700	6 502 100	6 602 032	6 501 375
EC	11 742 526	11 687 303	11 030 432	10 312 771	10 652 343
EFTA	0	0	0	0	0
G7	12 079 120	11 889 842	11 189 389	10 617 579	10 692 057
MERCOSUR	1 707 128	1 708 255	1 489 463	1 266 219	1 184 884
NAFTA/USMCA	5 775 864	6 248 246	5 306 645	4 806 033	4 523 332
OECD	19 258 611	19 815 581	17 813 810	16 745 759	17 875 444
SADC	45 002	153 107	43 170	119 093	130 118



## Magnesite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
<b>Development status:</b>					
Developed C.	3 758 717	3 831 000	3 687 394	4 145 540	4 427 860
Developing C.	23 284 120	23 537 187	22 636 610	22 827 255	22 476 371
Least Developed C.	0	0	0	0	0
Transition C.	1 405 500	1 577 350	1 015 200	1 282 052	1 108 896
<b>Total</b>	<b>28 448 337</b>	<b>28 945 537</b>	<b>27 339 204</b>	<b>28 254 847</b>	<b>28 013 127</b>
<b>Annual per capita income:</b>					
High Income	3 862 849	3 986 000	3 887 394	4 395 540	4 677 860
Upper Middle Income	24 198 089	24 688 926	23 206 220	23 412 357	22 858 276
Lower Middle Income	214 911	170 611	145 590	346 950	376 991
Low Income	172 488	100 000	100 000	100 000	100 000
<b>Total</b>	<b>28 448 337</b>	<b>28 945 537</b>	<b>27 339 204</b>	<b>28 254 847</b>	<b>28 013 127</b>
<b>Political stability:</b>					
Stable	0	0	0	0	0
Fair	3 316 037	3 831 000	3 688 926	4 149 450	4 430 860
Unstable	23 418 573	22 994 649	21 963 441	23 833 108	23 318 771
Extreme Unstable	1 713 727	2 119 888	1 686 837	272 289	263 496
<b>Total</b>	<b>28 448 337</b>	<b>28 945 537</b>	<b>27 339 204</b>	<b>28 254 847</b>	<b>28 013 127</b>
<b>Country groups and economic blocks:</b>					
ACP	8 700	8 500	10 032	12 410	8 000
ASEAN	200	140	40	0	0
BRICS	22 404 726	22 626 775	21 654 854	21 914 561	21 027 195
CPE	18 672 488	19 100 000	19 101 532	19 103 910	18 103 000
EC	3 103 023	3 178 726	2 829 622	2 767 261	2 911 261
EFTA	0	0	0	0	0
G7	444 850	388 828	444 590	579 076	622 976
MERCOSUR	2 303 971	1 900 000	1 530 000	1 550 000	1 800 000
NAFTA/USMCA	545 850	489 828	445 390	579 076	622 976
OECD	5 553 788	5 890 847	5 184 275	5 707 435	6 355 140
SADC	8 700	8 500	8 500	8 500	5 000

## Perlite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
<b>Development status:</b>					
Developed C.	1 608 365	1 377 267	1 424 691	1 750 268	1 944 061
Developing C.	691 939	1 224 705	1 259 969	1 216 767	1 532 866
Least Developed C.	0	0	0	0	0
Transition C.	75 536	111 922	138 676	162 710	225 742
<b>Total</b>	<b>2 375 840</b>	<b>2 713 894</b>	<b>2 823 336</b>	<b>3 129 745</b>	<b>3 702 669</b>

Annual per capita income:

High Income	1 632 499	1 382 287	1 429 391	1 750 268	1 944 061
Upper Middle Income	711 803	1 324 278	1 387 337	1 326 727	1 676 953
Lower Middle Income	31 538	7 329	6 608	52 750	81 655
Low Income	0	0	0	0	0
<b>Total</b>	<b>2 375 840</b>	<b>2 713 894</b>	<b>2 823 336</b>	<b>3 129 745</b>	<b>3 702 669</b>

Political stability:

Stable	0	0	0	0	0
Fair	699 549	1 401 081	1 429 391	1 750 268	1 944 061
Unstable	1 070 060	152 251	187 631	1 326 727	1 681 584
Extreme Unstable	606 231	1 160 562	1 206 314	52 750	77 024
<b>Total</b>	<b>2 375 840</b>	<b>2 713 894</b>	<b>2 823 336</b>	<b>3 129 745</b>	<b>3 702 669</b>

Country groups and economic blocks:

ACP	1 000	1 000	1 000	1 000	1 000
ASEAN	20 838	12 929	21 608	3 500	8 131
BRICS	46 000	46 000	46 000	46 000	46 000
CPE	0	0	0	0	0
EC	1 021 090	870 982	794 427	903 083	1 056 240
EFTA	0	0	0	0	0
G7	587 000	504 000	629 000	845 000	884 000
MERCOSUR	19 924	18 794	1 850	13 176	18 016
NAFTA/USMCA	602 899	530 400	653 497	845 000	884 000
OECD	2 234 705	2 497 670	2 628 374	2 896 609	3 372 756
SADC	1 000	1 000	1 000	1 000	1 000

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

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	9 589 760	9 014 070	8 062 980	8 292 450	7 332 080
Developing C.	63 216 445	55 505 820	56 408 780	54 236 670	60 607 480
Least Developed C.	1 107 750	1 147 140	1 121 520	1 179 440	1 337 050
Transition C.	5 686 400	5 829 200	5 907 640	5 988 510	6 094 220
<b>Total</b>	<b>79 600 355</b>	<b>71 496 230</b>	<b>71 500 920</b>	<b>69 697 070</b>	<b>75 370 830</b>

Annual per capita income:

High Income	11 291 950	10 842 230	10 369 530	10 932 440	10 165 200
Upper Middle Income	52 545 425	44 952 200	44 189 810	41 490 810	47 400 210
Lower Middle Income	14 598 530	15 235 070	16 546 960	16 204 920	16 866 560
Low Income	1 164 450	466 730	394 620	1 068 900	938 860
<b>Total</b>	<b>79 600 355</b>	<b>71 496 230</b>	<b>71 500 920</b>	<b>69 697 070</b>	<b>75 370 830</b>

Political stability:

Stable	0	0	0	0	0
Fair	10 353 750	9 237 390	9 399 060	7 344 100	6 657 710
Unstable	68 115 525	61 651 740	61 432 210	61 332 180	67 887 580
Extreme Unstable	1 131 080	607 100	669 650	1 020 790	825 540
<b>Total</b>	<b>79 600 355</b>	<b>71 496 230</b>	<b>71 500 920</b>	<b>69 697 070</b>	<b>75 370 830</b>

Country groups and economic blocks:

ACP	1 904 450	1 905 940	1 799 220	1 693 800	2 219 460
ASEAN	1 387 400	1 301 160	1 347 080	606 850	598 400
BRICS	45 258 620	37 245 390	36 179 640	34 558 860	39 243 850
CPE	38 316 000	30 197 460	29 344 080	27 287 070	31 468 510
EC	352 300	356 070	363 020	363 200	363 720
EFTA	0	0	0	0	0
G7	7 840 000	7 250 000	6 547 000	6 604 000	6 070 000
MERCOSUR	2 102 320	1 997 100	1 850 000	1 718 100	1 785 000
NAFTA/USMCA	8 532 150	7 472 500	6 796 520	6 695 240	6 206 900
OECD	10 135 210	9 125 950	8 319 040	8 539 640	7 645 880
SADC	746 270	736 720	652 450	480 740	784 890

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

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	18 987 824	20 342 228	18 597 253	19 923 227	19 235 032
Developing C.	8 509 486	8 164 921	8 405 911	8 391 117	8 555 108
Least Developed C.	307 600	343 500	286 900	442 500	507 600
Transition C.	14 516 700	14 593 196	14 925 793	15 982 353	16 856 600
<b>Total</b>	<b>42 321 610</b>	<b>43 443 845</b>	<b>42 215 857</b>	<b>44 739 197</b>	<b>45 154 340</b>
Annual per capita income:					
High Income	20 226 454	21 333 408	19 280 793	20 889 907	20 126 482
Upper Middle Income	21 672 656	21 588 337	22 431 964	23 155 390	24 250 058
Lower Middle Income	422 500	522 100	503 100	693 900	777 800
Low Income	0	0	0	0	0
<b>Total</b>	<b>42 321 610</b>	<b>43 443 845</b>	<b>42 215 857</b>	<b>44 739 197</b>	<b>45 154 340</b>
Political stability:					
Stable	0	0	0	0	0
Fair	18 407 354	26 873 704	24 872 486	18 916 807	18 255 082
Unstable	23 914 256	16 537 241	17 306 171	25 785 390	26 859 258
Extreme Unstable	0	32 900	37 200	37 000	40 000
<b>Total</b>	<b>42 321 610</b>	<b>43 443 845</b>	<b>42 215 857</b>	<b>44 739 197</b>	<b>45 154 340</b>

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	307 600	343 500	286 900	442 500	507 600
BRICS	13 140 296	12 708 181	13 518 911	13 979 037	14 917 628
CPE	5 534 000	5 452 000	5 902 000	5 530 000	5 814 600
EC	3 818 429	3 648 997	3 223 408	3 325 204	3 169 105
EFTA	0	0	0	0	0
G7	16 303 656	17 589 116	16 034 109	17 155 709	16 480 253
MERCOSUR	306 296	201 181	248 911	254 837	213 028
NAFTA/USMCA	13 042 695	14 543 931	13 330 345	14 182 423	13 576 467
OECD	20 226 454	21 333 408	19 280 793	20 889 907	20 126 482
SADC	0	0	0	0	0

**Salt**

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	114 007 037	119 192 193	118 554 684	111 380 065	117 908 856
Developing C.	151 577 463	154 097 010	154 946 258	141 304 560	137 753 573
Least Developed C.	3 242 778	3 087 332	3 510 835	3 319 814	3 236 149
Transition C.	13 736 004	14 157 923	15 267 448	11 749 325	14 867 435
Total	282 563 282	290 534 458	292 279 225	267 753 764	273 766 013
Annual per capita income:					
High Income	120 987 326	127 378 795	129 564 611	120 246 053	124 716 159
Upper Middle Income	117 182 691	115 245 363	119 370 080	102 259 777	104 213 457
Lower Middle Income	42 829 211	46 655 713	41 809 313	43 785 542	43 495 244
Low Income	1 564 054	1 254 587	1 535 221	1 462 392	1 341 153
Total	282 563 282	290 534 458	292 279 225	267 753 764	273 766 013
Political stability:					
Stable	555 509	637 014	582 325	105 000	105 000
Fair	126 217 903	137 043 243	135 007 091	123 584 401	128 740 913
Unstable	140 005 473	136 428 220	139 339 027	135 785 252	136 862 702
Extreme Unstable	15 784 397	16 425 981	17 350 782	8 279 111	8 057 398
Total	282 563 282	290 534 458	292 279 225	267 753 764	273 766 013

Country groups and economic blocks:

ACP	3 861 031	4 669 429	4 507 980	4 537 225	4 262 711
ASEAN	4 646 091	6 069 129	5 819 343	4 457 863	4 288 472
BRICS	110 438 506	108 084 985	110 465 912	98 108 455	98 989 342
CPE	67 937 360	65 326 297	68 670 303	60 390 024	59 058 249
EC	48 459 024	49 088 017	47 649 252	41 860 826	47 170 327
EFTA	463 509	591 414	492 325	334 827	530 700
G7	77 169 897	81 406 284	83 542 706	79 528 535	81 704 882
MERCOSUR	9 910 611	9 611 320	8 867 100	7 977 700	8 334 300
NAFTA/USMCA	60 894 403	64 005 258	65 780 955	64 807 588	61 462 683
OECD	132 240 037	139 384 619	139 588 682	134 304 274	137 563 260
SADC	2 087 017	2 282 755	2 247 895	2 343 557	2 502 590

## Sulfur

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	25 445 977	25 366 291	23 941 917	21 821 668	24 248 584
Developing C.	42 303 068	44 290 113	44 993 906	43 813 172	42 338 299
Least Developed C.	679 500	947 800	960 200	917 300	691 900
Transition C.	11 173 700	11 100 950	11 570 000	11 431 400	9 543 700
<b>Total</b>	<b>79 602 245</b>	<b>81 705 154</b>	<b>81 466 023</b>	<b>77 983 540</b>	<b>76 822 483</b>
Annual per capita income:					
High Income	42 841 685	43 358 449	42 702 170	39 559 985	40 934 177
Upper Middle Income	30 759 820	30 952 465	32 849 488	30 140 907	28 044 408
Lower Middle Income	5 990 740	7 384 240	5 904 365	8 272 648	7 141 998
Low Income	10 000	10 000	10 000	10 000	701 900
<b>Total</b>	<b>79 602 245</b>	<b>81 705 154</b>	<b>81 466 023</b>	<b>77 983 540</b>	<b>76 822 483</b>
Political stability:					
Stable	0	0	0	0	0
Fair	40 706 960	38 428 589	36 776 035	33 724 335	35 674 977
Unstable	37 649 845	39 709 325	41 336 273	41 569 257	38 624 108
Extreme Unstable	1 245 440	3 567 240	3 353 715	2 689 948	2 523 398
<b>Total</b>	<b>79 602 245</b>	<b>81 705 154</b>	<b>81 466 023</b>	<b>77 983 540</b>	<b>76 822 483</b>
Country groups and economic blocks:					
ACP	1 307 080	1 574 707	2 269 744	1 885 491	1 098 229
ASEAN	1 556 400	1 821 800	1 216 100	1 075 900	1 100 000
BRICS	24 750 600	25 912 397	26 905 574	26 965 491	24 598 829
CPE	13 797 300	14 081 700	14 777 000	15 661 200	16 018 900
EC	6 116 477	5 934 991	6 164 004	4 887 117	5 039 484
EFTA	100 000	120 000	100 000	100 000	100 000
G7	20 347 282	20 269 797	19 129 025	17 302 544	17 654 249
MERCOSUR	1 230 000	1 150 000	960 000	750 000	735 000
NAFTA/USMCA	15 508 218	15 445 657	13 896 294	13 058 129	13 168 439
OECD	29 292 525	29 319 048	27 654 698	25 517 784	25 869 223
SADC	1 008 480	1 265 707	1 952 744	1 574 291	819 329

## Talc

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	2 465 695	2 404 548	2 234 307	1 986 281	2 414 107
Developing C.	5 390 081	5 538 453	5 158 623	4 664 210	4 780 189
Least Developed C.	402 214	371 489	356 240	101 826	451 000
Transition C.	20 478	13 059	48 000	104 000	50 000
<b>Total</b>	<b>8 278 468</b>	<b>8 327 549</b>	<b>7 797 170</b>	<b>6 856 317</b>	<b>7 695 296</b>

Annual per capita income:

High Income	2 959 417	2 799 633	2 612 613	2 363 247	2 478 720
Upper Middle Income	3 055 294	3 264 430	2 852 615	2 401 166	2 716 555
Lower Middle Income	1 826 836	1 858 039	1 944 890	1 965 981	2 024 149
Low Income	436 921	405 447	387 052	125 923	475 872
<b>Total</b>	<b>8 278 468</b>	<b>8 327 549</b>	<b>7 797 170</b>	<b>6 856 317</b>	<b>7 695 296</b>

Political stability:

Stable	0	0	0	0	0
Fair	2 916 710	2 768 747	2 565 988	2 303 219	2 415 398
Unstable	4 324 275	4 696 366	4 577 664	4 237 097	4 405 005
Extreme Unstable	1 037 483	862 436	653 518	316 001	874 893
<b>Total</b>	<b>8 278 468</b>	<b>8 327 549</b>	<b>7 797 170</b>	<b>6 856 317</b>	<b>7 695 296</b>

Country groups and economic blocks:

ACP	64 673	108 810	144 060	101 694	341 183
ASEAN	61 436	58 676	14 564	38 146	31 950
BRICS	4 031 143	4 457 467	4 382 393	3 866 318	3 955 944
CPE	1 840 000	2 040 000	1 840 000	1 330 000	1 430 000
EC	1 155 695	1 187 548	1 113 307	1 071 988	1 077 503
EFTA	0	0	0	0	0
G7	1 828 218	1 703 640	1 544 131	1 370 679	1 406 500
MERCOSUR	515 430	673 492	660 050	652 824	662 370
NAFTA/USMCA	832 129	935 448	828 202	673 415	759 000
OECD	3 381 598	3 045 860	2 663 836	2 475 036	2 663 502
SADC	58 776	102 142	135 430	92 318	270 944

## Vermiculite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	100 000	100 000	100 000	100 000	100 000
Developing C.	297 572	302 634	285 510	274 026	362 183
Least Developed C.	4 119	10 413	9 674	14 170	14 000
Transition C.	14 400	25 904	29 237	28 442	39 804
<b>Total</b>	<b>416 091</b>	<b>438 951</b>	<b>424 421</b>	<b>416 638</b>	<b>515 987</b>

Annual per capita income:

High Income	100 000	100 000	100 000	100 000	100 000
Upper Middle Income	282 616	292 385	286 349	274 820	370 813
Lower Middle Income	6 054	36 153	28 398	27 648	31 174
Low Income	27 421	10 413	9 674	14 170	14 000
<b>Total</b>	<b>416 091</b>	<b>438 951</b>	<b>424 421</b>	<b>416 638</b>	<b>515 987</b>

Political stability:

Stable	0	0	0	0	0
Fair	100 000	100 000	100 000	100 000	100 000
Unstable	314 473	320 768	323 051	316 638	415 987
Extreme Unstable	1 618	18 183	1 370	0	0
<b>Total</b>	<b>416 091</b>	<b>438 951</b>	<b>424 421</b>	<b>416 638</b>	<b>515 987</b>

Country groups and economic blocks:

ACP	193 505	184 920	193 311	158 781	259 222
ASEAN	0	0	0	0	0
BRICS	286 588	276 950	287 605	256 746	370 474
CPE	50 000	50 000	50 000	50 000	40 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	100 000	100 000	100 000	100 000	100 000
MERCOSUR	50 050	56 708	47 581	58 821	70 500
NAFTA/USMCA	100 464	100 244	100 148	100 104	100 100
OECD	102 082	118 427	101 518	119 334	103 400
SADC	189 386	174 507	183 537	144 611	244 822

## Zircon

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	475 850	622 400	498 900	410 000	599 000
Developing C.	598 603	588 612	605 296	599 242	582 396
Least Developed C.	270 363	329 748	240 488	217 926	240 971
Transition C.	34 563	29 014	24 300	22 000	33 700
<b>Total</b>	<b>1 379 379</b>	<b>1 569 774</b>	<b>1 368 984</b>	<b>1 249 168</b>	<b>1 456 067</b>
Annual per capita income:					
High Income	475 850	622 400	498 900	410 000	599 000
Upper Middle Income	506 948	482 098	556 985	468 951	455 700
Lower Middle Income	126 218	229 097	153 358	235 548	251 156
Low Income	270 363	236 179	159 741	134 669	150 211
<b>Total</b>	<b>1 379 379</b>	<b>1 569 774</b>	<b>1 368 984</b>	<b>1 249 168</b>	<b>1 456 067</b>
Political stability:					
Stable	0	0	0	0	0
Fair	482 945	633 409	586 696	410 157	600 518
Unstable	863 909	911 380	763 288	734 693	852 516
Extreme Unstable	32 525	24 985	19 000	104 318	3 033
<b>Total</b>	<b>1 379 379</b>	<b>1 569 774</b>	<b>1 368 984</b>	<b>1 249 168</b>	<b>1 456 067</b>

Country groups and economic blocks:

ACP	678 479	671 166	591 928	561 698	573 937
ASEAN	36 595	64 709	80 149	88 057	86 548
BRICS	513 260	490 760	499 036	484 794	470 182
CPE	121 500	160 500	146 600	150 700	170 400
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	45 000	100 000	30 000	30 000	30 000
MERCOSUR	19 016	17 844	17 136	10 994	6 482
NAFTA/USMCA	45 000	100 000	30 000	30 000	30 000
OECD	477 050	624 350	498 900	410 000	599 000
SADC	547 427	528 389	471 241	441 905	447 111

## 6.3.5 Mineral Fuels

### Steam Coal

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	911 558 581	898 775 472	862 405 637	720 975 948	735 770 755
Developing C.	4 244 426 342	4 524 057 561	4 697 735 081	4 635 711 993	4 831 751 161
Least Developed C.	9 742 022	12 662 361	10 427 023	7 359 958	10 032 626
Transition C.	366 116 790	396 752 585	387 770 338	360 000 131	389 737 725
Total	5 531 843 735	5 832 247 979	5 958 338 079	5 724 048 030	5 967 292 267
Annual per capita income:					
High Income	915 577 266	902 272 069	865 096 191	722 186 510	735 789 296
Upper Middle Income	3 373 360 478	3 574 499 615	4 284 638 394	3 645 964 891	3 804 095 070
Lower Middle Income	1 208 761 206	1 326 425 405	779 497 210	1 333 167 668	1 400 920 964
Low Income	34 144 785	29 050 890	29 106 284	22 728 961	26 486 937
Total	5 531 843 735	5 832 247 979	5 958 338 079	5 724 048 030	5 967 292 267
Political stability:					
Stable	1 426 000	1 710 060	1 545 230	1 482 000	1 448 565
Fair	1 055 603 868	956 049 594	923 403 733	731 545 250	745 270 511
Unstable	4 445 698 911	4 841 863 576	5 000 974 873	4 975 582 539	5 207 641 656
Extreme Unstable	29 114 956	32 624 749	32 414 243	15 438 241	12 931 535
Total	5 531 843 735	5 832 247 979	5 958 338 079	5 724 048 030	5 967 292 267



Country groups and economic blocks:

ACP	264 032 439	265 771 600	266 356 579	255 285 090	239 425 539
ASEAN	544 518 651	602 974 363	662 174 227	624 426 905	632 310 422
BRICS	3 816 932 939	4 064 924 360	4 173 663 775	4 160 760 509	4 371 655 003
CPE	2 738 525 990	2 917 159 400	3 044 496 100	3 068 932 200	3 225 333 410
EC	60 296 248	57 185 612	52 736 727	44 119 578	43 161 020
EFTA	134 433	154 200	117 000	63 000	121 000
G7	600 752 000	583 151 160	538 467 740	408 973 790	442 141 270
MERCOSUR	3 733 152	3 750 753	4 347 664	3 879 892	4 960 145
NAFTA/USMCA	604 482 800	586 714 128	542 794 406	411 164 370	444 255 190
OECD	924 943 453	911 205 117	873 967 545	774 770 122	786 213 180
SADC	263 401 433	265 197 341	265 587 235	254 217 393	237 764 095

## Coking Coal

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	305 752 700	299 007 231	299 510 663	274 216 957	269 449 566
Developing C.	603 291 824	620 364 438	641 222 843	652 264 780	665 204 818
Least Developed C.	7 385 930	8 355 292	5 356 390	4 670 626	5 732 902
Transition C.	106 283 600	105 242 300	110 161 700	104 687 700	115 785 800
Total	1 022 714 054	1 032 969 261	1 056 251 596	1 035 840 063	1 056 173 086

Annual per capita income:

High Income	305 752 700	299 007 231	299 510 663	274 216 957	269 449 566
Upper Middle Income	633 975 975	647 379 132	663 459 413	671 858 920	694 042 578
Lower Middle Income	75 353 900	78 227 606	87 925 130	85 093 560	86 948 040
Low Income	7 631 479	8 355 292	5 356 390	4 670 626	5 732 902
Total	1 022 714 054	1 032 969 261	1 056 251 596	1 035 840 063	1 056 173 086

Political stability:

Stable	1 173 100	1 213 400	1 200 900	1 038 970	1 134 310
Fair	346 001 300	324 867 581	327 272 733	298 999 917	287 833 756
Unstable	669 541 754	699 939 850	719 695 893	727 314 550	763 555 020
Extreme Unstable	5 997 900	6 948 430	8 082 070	8 486 626	3 650 000
Total	1 022 714 054	1 032 969 261	1 056 251 596	1 035 840 063	1 056 173 086

Country groups and economic blocks:

ACP	11 659 754	13 161 364	9 321 575	6 961 476	8 950 220
ASEAN	4 300 000	5 117 786	5 752 018	4 000 000	4 356 640
BRICS	645 583 275	665 880 302	689 192 225	696 298 320	726 293 818
CPE	541 779 000	557 513 750	567 596 970	587 076 230	591 579 900
EC	17 972 000	16 829 631	15 123 393	14 076 967	14 319 716
EFTA	0	0	0	0	0
G7	99 566 060	103 770 470	94 862 710	75 843 890	83 394 540
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	101 173 600	105 511 200	97 395 370	79 234 020	87 222 800
OECD	311 082 700	303 596 361	303 484 533	284 511 657	280 148 526
SADC	11 659 754	13 161 364	9 321 575	6 961 476	8 950 220

## Lignite

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
<b>Development status:</b>					
Developed C.	513 245 608	478 308 843	409 139 838	338 596 877	368 160 329
Developing C.	142 632 891	149 090 450	149 518 341	131 749 628	153 449 513
Least Developed C.	13 529 492	16 389 001	16 049 042	15 127 126	14 207 432
Transition C.	151 392 448	156 693 977	159 787 602	151 663 906	151 290 875
<b>Total</b>	<b>820 800 439</b>	<b>800 482 271</b>	<b>734 494 823</b>	<b>637 137 537</b>	<b>687 108 149</b>
<b>Annual per capita income:</b>					
High Income	452 905 808	422 848 015	379 677 223	301 046 671	322 016 395
Upper Middle Income	287 855 872	303 419 855	282 552 378	270 544 215	290 884 974
Lower Middle Income	80 038 759	74 214 401	72 265 222	65 546 651	74 206 780
Low Income	0	0	0	0	0
<b>Total</b>	<b>820 800 439</b>	<b>800 482 271</b>	<b>734 494 823</b>	<b>637 137 537</b>	<b>687 108 149</b>
<b>Political stability:</b>					
Stable	319 487	307 378	287 830	297 690	284 735
Fair	540 890 972	540 598 599	433 773 850	359 323 465	386 803 421
Unstable	208 130 810	178 006 570	215 953 063	276 755 884	299 430 633
Extreme Unstable	71 459 170	81 569 724	84 480 080	760 498	589 360
<b>Total</b>	<b>820 800 439</b>	<b>800 482 271</b>	<b>734 494 823</b>	<b>637 137 537</b>	<b>687 108 149</b>
<b>Country groups and economic blocks:</b>					
ACP	0	0	0	0	0
ASEAN	29 788 129	31 240 951	30 127 007	28 377 700	28 429 005
BRICS	120 332 084	124 005 500	124 492 696	112 804 404	124 586 525
CPE	6 783 000	7 449 000	8 053 080	6 657 650	5 309 755
EC	384 922 621	370 400 965	309 146 453	244 653 270	274 991 340
EFTA	0	0	0	0	0
G7	242 570 200	227 902 500	187 704 555	159 510 177	177 518 848
MERCOSUR	1 488 084	1 422 500	1 596 696	2 309 404	1 896 525
NAFTA/USMCA	71 284 500	61 644 500	56 390 555	52 132 917	51 262 254
OECD	524 364 978	503 932 015	441 719 503	372 683 671	406 548 055
SADC	0	0	0	0	0

## Natural Gas

	2017 Mio m <sup>3</sup>	2018 Mio m <sup>3</sup>	2019 Mio m <sup>3</sup>	2020 Mio m <sup>3</sup>	2021 Mio m <sup>3</sup>
<b>Development status:</b>					
Developed C.	1 330 212	1 435 504	1 523 567	1 495 003	1 527 714
Developing C.	1 500 126	1 535 418	1 552 425	1 530 456	1 592 453
Least Developed C.	67 078	57 019	59 505	57 170	55 456
Transition C.	878 922	918 486	929 395	877 991	977 694
<b>Total</b>	<b>3 776 338</b>	<b>3 946 427</b>	<b>4 064 892</b>	<b>3 960 620</b>	<b>4 153 317</b>

Annual per capita income:

High Income	1 814 824	1 886 848	1 987 572	1 941 985	1 976 765
Upper Middle Income	1 536 269	1 621 899	1 615 037	1 279 156	1 395 984
Lower Middle Income	414 825	427 161	454 109	731 829	772 622
Low Income	10 420	10 519	8 174	7 650	7 946
<b>Total</b>	<b>3 776 338</b>	<b>3 946 427</b>	<b>4 064 892</b>	<b>3 960 620</b>	<b>4 153 317</b>

Political stability:

Stable	4 896	4 322	4 608	4 508	3 945
Fair	1 779 289	1 869 270	1 921 549	1 863 891	1 898 337
Unstable	1 739 160	1 659 815	1 719 744	1 681 128	1 837 900
Extreme Unstable	252 993	413 020	418 991	411 093	413 135
<b>Total</b>	<b>3 776 338</b>	<b>3 946 427</b>	<b>4 064 892</b>	<b>3 960 620</b>	<b>4 153 317</b>

Country groups and economic blocks:

ACP	110 457	114 517	116 058	113 039	106 409
ASEAN	227 003	217 791	219 233	199 857	199 344
BRICS	889 966	931 019	952 595	926 317	1 023 841
CPE	158 952	171 139	186 513	202 550	215 696
EC	127 694	117 014	106 982	92 842	49 313
EFTA	124 664	122 203	115 123	112 332	115 178
G7	1 006 269	1 105 135	1 184 287	1 167 012	1 194 924
MERCOSUR	107 008	99 236	96 154	86 515	90 299
NAFTA/USMCA	978 145	1 079 121	1 160 180	1 144 048	1 178 125
OECD	1 350 441	1 455 775	1 543 984	1 529 725	1 561 342
SADC	12 991	13 900	13 862	14 261	12 361

## Petroleum

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	1 035 421 192	1 158 471 308	1 251 631 869	1 215 983 042	1 225 650 082
Developing C.	2 550 207 275	2 530 056 881	2 435 344 629	2 243 572 499	2 284 396 753
Least Developed C.	110 241 900	94 670 710	91 762 410	85 607 480	76 608 260
Transition C.	691 278 473	704 582 536	707 875 905	650 657 528	663 647 926
<b>Total</b>	<b>4 387 148 840</b>	<b>4 487 781 435</b>	<b>4 486 614 813</b>	<b>4 195 820 549</b>	<b>4 250 303 021</b>

Annual per capita income:

High Income	2 071 967 192	2 192 119 238	2 266 381 719	2 160 739 332	2 165 737 986
Upper Middle Income	1 951 309 025	1 938 222 180	1 837 433 094	1 503 092 666	1 553 937 864
Lower Middle Income	345 224 971	337 629 478	356 697 417	506 989 031	504 484 571
Low Income	18 647 652	19 810 539	26 102 583	24 999 520	26 142 600
<b>Total</b>	<b>4 387 148 840</b>	<b>4 487 781 435</b>	<b>4 486 614 813</b>	<b>4 195 820 549</b>	<b>4 250 303 021</b>

Political stability:

Stable	1 400 390	1 086 450	1 128 870	964 420	840 780
Fair	1 517 527 964	1 684 583 707	1 757 447 609	1 675 511 555	1 680 283 997
Unstable	2 329 408 976	2 092 434 480	2 088 944 564	1 997 435 654	1 992 859 444
Extreme Unstable	538 811 510	709 676 798	639 093 770	521 908 920	576 318 800
<b>Total</b>	<b>4 387 148 840</b>	<b>4 487 781 435</b>	<b>4 486 614 813</b>	<b>4 195 820 549</b>	<b>4 250 303 021</b>

Country groups and economic blocks:

ACP	248 853 635	242 902 460	246 492 364	232 788 944	209 260 348
ASEAN	105 223 640	101 057 370	97 015 750	89 398 173	82 279 520
BRICS	910 016 475	913 507 140	928 017 434	889 815 064	901 790 013
CPE	208 625 200	204 647 200	205 980 650	207 298 800	210 817 700
EC	69 673 064	73 376 895	73 054 019	68 607 605	18 157 587
EFTA	89 849 500	84 275 900	79 388 000	93 492 500	95 254 000
G7	913 262 606	1 041 940 143	1 135 291 032	1 087 692 382	1 096 821 012
MERCOSUR	274 026 900	242 334 840	221 313 800	208 457 700	208 128 500
NAFTA/USMCA	967 677 860	1 084 020 940	1 169 204 430	1 123 805 850	1 142 630 920
OECD	1 142 807 591	1 258 783 936	1 344 667 449	1 349 517 436	1 357 900 985
SADC	79 693 195	72 505 030	67 355 354	62 714 074	55 492 653

### Oil Sands (part of Petroleum)

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400
Developing C.	25 000 000	20 000 000	18 000 000	14 900 000	15 000 000
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
<b>Total</b>	<b>169 006 100</b>	<b>176 864 600</b>	<b>176 766 200</b>	<b>167 943 300</b>	<b>182 022 400</b>
Annual per capita income:					
High Income	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400
Upper Middle Income	25 000 000	20 000 000	18 000 000	14 900 000	15 000 000
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
<b>Total</b>	<b>169 006 100</b>	<b>176 864 600</b>	<b>176 766 200</b>	<b>167 943 300</b>	<b>182 022 400</b>
Political stability:					
Stable	0	0	0	0	0
Fair	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400
Unstable	0	0	0	0	0
Extreme Unstable	25 000 000	20 000 000	18 000 000	14 900 000	15 000 000
<b>Total</b>	<b>169 006 100</b>	<b>176 864 600</b>	<b>176 766 200</b>	<b>167 943 300</b>	<b>182 022 400</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	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400
MERCOSUR	25 000 000	20 000 000	18 000 000	14 900 000	15 000 000
NAFTA/USMCA	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400
OECD	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400
SADC	0	0	0	0	0

## Oil Shales

	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t
Development status:					
Developed C.	22 534 973	22 794 380	16 628 394	13 054 894	12 674 826
Developing C.	0	0	0	0	0
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	22 534 973	22 794 380	16 628 394	13 054 894	12 674 826

Annual per capita income:

High Income	22 534 973	22 794 380	16 589 394	13 010 894	12 618 826
Upper Middle Income	0	0	39 000	44 000	56 000
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	22 534 973	22 794 380	16 628 394	13 054 894	12 674 826

Political stability:

Stable	0	0	0	0	0
Fair	22 108 973	22 379 800	16 225 512	12 661 904	12 243 986
Unstable	426 000	414 580	402 882	392 990	430 840
Extreme Unstable	0	0	0	0	0
Total	22 534 973	22 794 380	16 628 394	13 054 894	12 674 826

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	22 108 973	22 379 800	16 225 512	12 661 904	12 243 986
EFTA	0	0	0	0	0
G7	483 803	496 650	489 012	473 404	444 886
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	22 534 973	22 794 380	16 589 394	13 010 894	12 618 826
SADC	0	0	0	0	0

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

	2017	2018	2019	2020	2021
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	22 344	16 659	16 102	11 582	9 958
Developing C.	8 057	9 520	9 261	9 282	9 976
Least Developed C.	4 066	3 433	3 516	3 527	2 691
Transition C.	35 935	34 471	35 399	31 327	33 530
<b>Total</b>	<b>70 402</b>	<b>64 083</b>	<b>64 278</b>	<b>55 718</b>	<b>56 155</b>
Annual per capita income:					
High Income	22 344	16 659	16 102	11 582	9 958
Upper Middle Income	38 448	37 987	39 173	35 079	38 030
Lower Middle Income	5 544	6 004	5 487	5 530	5 476
Low Income	4 066	3 433	3 516	3 527	2 691
<b>Total</b>	<b>70 402</b>	<b>64 083</b>	<b>64 278</b>	<b>55 718</b>	<b>56 155</b>
Political stability:					
Stable	0	0	0	0	0
Fair	54 825	23 173	22 561	17 965	16 746
Unstable	10 472	36 034	37 204	34 173	36 665
Extreme Unstable	5 105	4 876	4 513	3 580	2 744
<b>Total</b>	<b>70 402</b>	<b>64 083</b>	<b>64 278</b>	<b>55 718</b>	<b>56 155</b>
Country groups and economic blocks:					
ACP	9 351	10 178	10 138	10 040	9 628
ASEAN	0	0	0	0	0
BRICS	6 463	6 377	6 182	6 202	6 242
CPE	2 223	2 223	2 223	2 224	2 227
EC	106	40	67	42	32
EFTA	0	0	0	0	0
G7	15 542	8 882	8 337	4 275	5 452
MERCOSUR	0	0	0	20	34
NAFTA/USMCA	15 502	8 882	8 309	4 267	5 452
OECD	22 344	16 659	16 102	11 582	9 958
SADC	5 285	6 745	6 622	6 513	6 937



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

### 6.4.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	268 400	381 200	409 900	406 600	416 000	2n
Angola				0	37 610	1e
Argentina	28 400	40 560	0	0	0	1e
Australia	548 297 062	560 054 570	567 957 086	568 384 644	571 113 897	1e
Austria	954 156	897 132	1 037 470	973 840	1 059 550	1e
Bhutan	21 100	24 220	23 590	9 430	16 590	1e
Bolivia	22 230	41 560	45 830	15 410	17 010	1e
Bosnia-Herzegovina	827 170	704 050	739 600	727 980	792 500	1e
Brazil	289 089 904	287 617 655	255 339 422	245 951 962	273 330 125	1e
Canada	30 682 700	32 180 800	33 020 200	35 775 100	35 070 000	1e
Chile	9 549 327	8 942 638	8 427 224	9 890 886	11 163 294	1e
China	215 920 000	209 243 800	219 375 000	225 400 000	254 900 000	1e
Colombia	320 790	353 950	300 020	353 950	337 450	1e
Congo, Rep.	0	10 800	20 200	33 500	0	1n
Egypt	254 300	250 700	48 200	270 000	270 000	2n
Fiji		0	35 900	35 200	49 400	1n
Germany	82 900	82 900	94 100	95 500	87 500	1e
Guatemala	2 670	2 590	30	0	0	1e
Guinea			0	418 800	1 139 200	1e
India	125 716 600	129 615 740	151 827 100	126 308 900	156 451 900	3e
Indonesia	1 075 800	600 000	1 379 300	2 951 100	3 300 000	2n
Iran	21 884 000	24 700 000	28 305 000	33 660 000	34 980 000	1a
Kazakhstan	11 705 660	12 968 800	14 278 750	15 105 100	15 966 300	1e
Korea, North	3 645 500	2 082 800	1 796 400	1 640 800	1 600 000	2n
Korea, South	186 330	229 530	205 410	345 140	323 140	1e
Laos	150 000	59 500	282 180	607 830	2 113 560	1e
Liberia	962 900	2 794 300	2 657 200	2 924 600	3 000 000	1e
Malawi	3 000	1 540	1 800	3 010	2 990	1e
Malaysia	2 469 370	2 112 790	2 621 100	3 383 990	3 070 930	1e
Mauritania	7 678 500	6 961 700	7 927 700	8 135 000	8 201 700	1e
Mexico	7 027 520	8 412 810	10 331 270	10 774 600	10 800 000	2e
Mongolia	4 309 030	3 486 220	4 800 430	5 165 660	5 136 260	1a
Morocco	36 120	18 520	7 150	14 090	8 870	1e
Namibia	1 640	8 730	8 400	27 570	51 490	1e
Nepal	350	180	120	770	0	1e
New Zealand	2 324 640	2 100 000	1 915 000	2 260 000	2 200 000	2n
Nigeria	0	700	18 300	2 400	1 300	1e
Norway	992 700	1 129 900	1 069 700	1 014 700	1 057 500	1n
Pakistan	190 630	257 340	238 440	218 000	306 160	1e
Peru	8 806 450	9 533 870	10 120 007	8 893 972	12 149 274	1e
Philippines	0	0	0	25 700	46 500	1e
Russia	62 186 000	64 192 000	65 726 000	65 372 000	59 375 800	1e
Saudi Arabia	266 800	280 100	294 100	275 000	288 700	1e



Sierra Leone	3 194 930	561 800	418 950	0	950 300	1a
South Africa	48 808 920	48 277 430	47 064 410	36 163 000	47 509 000	1e
Spain				0	36 580	1e
Sweden	18 741 000	18 405 000	19 367 200	20 112 200	19 964 200	1e
Tanzania			0	14 200	39 100	1e
Thailand	85	0	10 950	70 210	201 450	1e
Tunisia	106 900	95 000	100 700	93 400	143 900	1e
Turkey	6 095 400	9 546 700	8 828 800	13 087 300	9 791 300	1e
Uganda	1 390	2 700	0	0	0	1e
Ukraine	38 767 600	38 751 300	47 584 000	49 274 000	52 431 000	1e
United States	30 177 000	31 185 000	29 547 000	24 100 000	30 100 000	1e
Uruguay	1 010	2 520	2 510	1 240	3 310	1e
Venezuela	4 615 000	2 017 500	2 062 800	1 235 000	1 462 500	1e
Vietnam	3 309 000	3 353 100	3 663 400	2 136 200	2 190 900	3e
<b>Total</b>	<b>1 511 758 884</b>	<b>1 524 574 245</b>	<b>1 551 335 349</b>	<b>1 524 139 484</b>	<b>1 635 056 040</b>	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Afghanistan	2 000	2 000	2 000	2 000	5 300	1e
Albania	273 300	322 100	357 200	212 650	225 200	1e
Brazil	212 503	219 724	199 256	226 762	248 108	1e
China	12 000	16 330	27 250	54 440	67 620	1e
Cuba	14 400	10 500	27 000	14 000	8 500	1e
Ethiopia	0	8 000	500	200	700	1e
Finland	411 060	466 750	491 930	470 620	472 890	1a
Greece	0	16 650	12 080	790	800	2n
India	1 609 010	1 864 070	1 832 600	1 270 200	1 698 900	3e
Iran	92 850	113 410	104 400	103 340	85 620	1a
Kazakhstan	2 193 500	2 378 200	2 458 800	1 977 900	1 901 500	1e
Madagascar	102 000	53 500	37 300	6 100	5 900	1e
Oman	181 090	353 630	293 040	182 720	195 540	1a
Pakistan	42 100	38 970	55 300	48 570	56 050	1e
Papua New Guinea	34 470	40 290	52 010	52 700	43 430	1n
Philippines	8 340	20 260	14 570	14 040	12 290	1e
Russia	170 800	177 500	175 000	187 000	167 360	1e
South Africa	7 073 400	7 524 700	7 384 000	5 479 400	7 605 500	1e
Sudan	15 360	12 960	5 950	4 300	2 700	1e
Turkey	1 384 700	1 146 600	1 528 700	1 087 400	1 227 900	1e
Zimbabwe	309 980	402 600	720 330	572 460	644 400	1e
<b>Total</b>	<b>14 142 863</b>	<b>15 188 744</b>	<b>15 779 216</b>	<b>11 967 592</b>	<b>14 676 208</b>	

## Cobalt

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	5 034	4 878	5 741	5 626	5 228	1e
Brazil	185	4	0	0	0	1e
Canada	6 058	5 608	5 132	4 474	3 834	1e
China	8 300	3 100	3 000	2 200	2 000	1e
Congo, D.R.	82 461	111 713	78 664	86 591	93 011	1e
Cuba	5 407	5 000	3 800	3 900	3 800	2n

Finland	2 300	1 377	1 454	1 559	1 084	1a
Indonesia	350	350	350	1 000	2 100	1e
Madagascar	2 967	2 887	2 897	833	1 986	1e
Morocco	1 924	1 806	2 397	2 416	1 796	1n
New Caledonia	2 780	2 104	1 703	2 197	1 500	2e
Papua New Guinea	3 307	3 275	2 915	2 941	2 955	1n
Philippines	3 700	3 600	3 750	3 600	3 200	1n
Russia	8 900	8 700	9 400	9 700	8 100	2n
South Africa	1 065	1 007	1 027	897	355	1e
Turkey	220	259	115	250	2 400	2b
United States	640	480	500	600	650	1e
Zambia	2 649	1 766	1 271	316	247	1e
Zimbabwe	445	403	402	956	230	1e
Total	138 692	158 317	124 518	130 056	134 476	

## Manganese

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	2 879 010	3 514 320	3 259 200	3 356 030	3 278 840	1n
Bolivia	0	110	3 660	4 710	5 100	1e
Brazil	1 343 967	1 310 825	1 452 034	932 721	597 446	1e
Bulgaria	574	0	0	0	0	1a
China	2 508 000	1 180 000	1 350 000	1 218 000	1 300 000	1e
Colombia	0	80	160	0	0	1e
Congo, D.R.	0	5 360	1 780	1 000	1 000	2n
Cote d'Ivoire	204 700	319 200	472 700	530 200	580 000	1e
Egypt	11 900	13 200	7 900	5 300	8 000	2n
Gabon	2 265 800	2 874 600	3 158 100	3 709 100	4 240 100	1n
Georgia	171 300	210 500	170 600	202 400	217 900	1n
Ghana	871 000	1 320 000	1 507 200	660 100	934 200	1e
India	860 400	920 230	919 640	839 100	841 600	3e
Indonesia	24 000	24 000	24 000	23 500	40 000	1e
Iran	33 915	45 595	50 240	63 580	93 940	1a
Kazakhstan	294 900	288 300	230 700	164 300	252 300	1e
Kenya	2 700	7 000	16 600	13 600	28 500	2n
Malaysia	514 950	530 340	474 910	365 340	280 790	1e
Mexico	218 510	209 023	232 957	258 045	220 560	1e
Morocco	49 500	39 770	35 600	42 050	41 250	1e
Myanmar	136 600	207 500	429 000	254 000	206 100	1n
Namibia	9 820	8 800	14 660	11 860	10 250	2n
Nigeria	13 550	22 880	1 000	5 850	22 380	1e
Oman	3 400	11 170	12 500	3 630	3 760	1a
Pakistan	430	50	190	180	50	1e
Peru	1 133	17 203	18 814	10 120	9 073	1e
Romania	5 660	5 150	9 290	8 450	6 600	1e
Russia	0	8 600	5 900	28 200	10 700	1e
Senegal	1 520	3 330	1 880	6 580	4 040	1e
South Africa	5 501 400	5 641 200	6 456 400	6 029 368	7 098 396	1e
Sudan	4 000	4 000	1 000	0	0	1e
Thailand	3 850	1 920	2 305	670	0	1e
Turkey	27 300	29 900	39 900	35 600	30 300	1e
Ukraine	650 500	682 700	686 100	698 500	652 300	1e
Vietnam	104 700	115 100	106 000	121 100	147 000	1n
Zambia	39 900	37 800	11 970	20 000	56 860	1e
Total	18 758 889	19 609 756	21 164 890	19 623 184	21 219 335	

## Molybdenum

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	651	364	0	0	0	1e
Armenia	5 038	5 422	7 137	11 909	10 611	1e
Canada	4 765	5 048	4 385	3 979	2 023	1e
Chile	62 746	60 705	54 759	59 381	49 427	1e
China	117 090	98 420	104 670	95 970	102 600	1e
Iran	4 280	3 690	4 160	3 536	4 150	1e
Kazakhstan	35	149	258	384	880	1n
Korea, North	480	560	530	100	100	2n
Korea, South	0	1	266	411	408	1e
Mexico	13 985	20 265	21 694	20 577	16 319	1e
Mongolia	2 640	2 580	2 490	2 890	2 975	1a
Norway	0	0	1	1	1	2n
Peru	28 141	28 034	30 441	32 185	34 148	1e
Russia	3 227	2 262	1 989	1 707	1 700	2e
Turkey	900	450	0	0	0	1e
United States	40 700	41 400	43 600	51 100	41 100	1e
Uzbekistan	700	750	800	760	1 282	1e
<b>Total</b>	<b>285 378</b>	<b>270 100</b>	<b>277 180</b>	<b>284 890</b>	<b>267 724</b>	

## Nickel

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Albania	5 760	4 200	2 960	3 760	3 720	1e
Australia	185 466	160 022	158 751	169 344	150 876	1e
Brazil	68 803	65 254	55 761	68 097	75 988	1e
Canada	214 302	177 867	193 057	158 138	133 581	1e
China	102 348	98 963	104 674	105 048	104 600	1e
Colombia	40 606	43 056	40 571	36 094	38 301	1e
Cote d'Ivoire	400	12 300	9 900	20 220	22 500	2e
Cuba	49 300	49 000	45 000	46 000	45 000	2n
Dominican Republic	15 632	19 214	28 450	22 005	27 819	1e
Finland	34 641	43 572	38 530	41 429	42 163	1a
Greece	21 090	19 980	17 240	9 270	5 370	1e
Guatemala	54 500	48 400	44 600	57 600	59 100	1e
Indonesia	363 000	651 600	1 036 200	816 700	1 173 200	1e
Kosovo	7 120	4 790	3 360	4 150	4 960	1e
Madagascar	34 123	33 204	33 736	9 908	27 710	1e
Morocco	196	126	131	142	147	1n
Myanmar	29 250	17 750	14 200	22 000	18 100	1n
New Caledonia	215 382	216 225	208 185	199 375	186 284	1e
Norway	190	170	135	120	350	1a
Papua New Guinea	34 664	35 354	33 091	33 659	31 594	1n
Philippines	339 377	344 966	323 325	328 911	386 359	1e
Poland	720	660	755	710	740	1e
Russia	223 000	238 800	233 800	234 100	192 000	2e
South Africa	48 463	43 236	43 443	34 908	31 846	1e
Turkey	14 770	13 560	4 740	20 200	11 650	1e

United States	22 100	17 600	13 500	16 700	18 400	1e
Zambia		0	2 500	2 760	3 680	1n
Zimbabwe	16 594	17 850	16 918	16 480	16 213	1e
Total	2 141 797	2 377 719	2 707 513	2 477 828	2 812 251	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Brazil	83 166	99 554	126 641	85 572	112 755	1e
Burundi	18	5	5	5	10	1e
Canada	6 981	7 700	6 800	6 400	7 650	2n
China	30	20	20	30	30	2n
Congo, D.R.	717	607	433	565	475	1e
Ethiopia	25	28	14	11	18	1e
Mozambique	10	12	11	17	14	1e
Nigeria	122	181	170	80	140	1e
Russia	648	669	659	617	648	1n
Rwanda	260	245	205	160	160	1e
Uganda	3	2	2	52	2	2n
Total	91 980	109 023	134 960	93 509	121 902	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	20	40	80	50	70	1e
Bolivia	3	18	10	8	1	1e
Brazil	270	345	340	300	350	1n
Burundi	26	8	8	7	15	1e
China	110	100	135	180	180	2n
Congo, D.R.	761	644	460	600	505	1e
Ethiopia	90	104	50	41	64	1e
Malaysia	6	27	2	1	1	2n
Mozambique	57	66	59	94	75	1e
Nigeria	480	230	120	80	160	2n
Russia	45	44	32	60	39	1n
Rwanda	395	380	315	240	245	1e
Sierra Leone	38	31	16	29	36	1a
Spain		0	18	16	19	1e
Total	2 301	2 037	1 645	1 706	1 760	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	993 000	875 250	780 465	830 800	624 100	1e
Brazil	66 930	73 090	81 650	61 940	75 100	1e
Canada	670 000	620 000	550 000	480 000	440 000	2n

China	1 242 000	1 932 000	2 306 900	2 911 800	2 856 650	1e
India	167 800	172 700	205 200	205 000	176 000	2n
Iran	30 630	30 000	4 880	5 000	6 860	1a
Kazakhstan	65 000	65 000	60 000	28 000	20 000	2n
Kenya	345 560	340 150	262 660	256 410	254 210	1n
Korea, South	122 670	117 250	162 790	158 340	177 420	1e
Madagascar	230 700	214 900	252 200	280 600	324 800	1e
Malaysia	8 500	12 600	6 930	6 280	13 470	1e
Mozambique	725 200	701 400	786 900	874 000	1 126 800	1e
Norway	238 200	176 370	211 280	229 780	295 610	1a
Russia	2 900	3 000	3 100	3 000	4 400	2e
Senegal	280 320	287 940	281 030	291 740	310 310	1e
Sierra Leone	190 480	145 400	165 180	135 930	135 400	1a
South Africa	1 090 000	1 000 000	970 000	950 000	900 000	2n
Sri Lanka	30 630	35 670	25 940	11 150	28 775	1e
Thailand	4	23	64	84	36	1e
Turkey	6 370	6 175	6 130	6 455	7 080	1e
Ukraine	430 300	518 950	564 050	537 430	489 200	1e
United States	66 000	100 000	100 000	100 000	100 000	1e
Vietnam	117 160	122 250	112 680	139 760	127 070	3e
Total	7 120 354	7 550 118	7 900 029	8 503 499	8 493 291	

## Tungsten (W-Content)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	5	10	30	100	160	1e
Austria	975	936	892	896	919	1e
Bolivia	1 015	1 366	1 064	1 347	1 563	1e
Brazil	411	346	306	262	301	1e
Burundi	144	108	150	166	120	1e
China	71 800	68 000	74 950	71 450	68 660	1e
Congo, D.R.	130	160	260	116	114	1e
Korea, North	310	1 410	1 130	410	50	1e
Mexico		45	15	32	0	1e
Mongolia	523	430	370	35	120	1e
Myanmar	330	190	130	80	40	1e
Nigeria	12	66	15	18	24	1e
Portugal	669	716	518	553	542	1e
Russia	2 144	2 234	2 433	2 274	1 900	2e
Rwanda	905	1 155	1 120	990	1 545	1e
Spain	564	856	414	238	642	1a
Thailand	43	65	22	57	58	1e
Uganda	37	113	87	7	11	2n
United Kingdom	1 086	890	0	0	0	1e
Uzbekistan	103	97	100	20	25	1e
Vietnam	5 141	4 881	4 816	5 970	11 735	1n
Zimbabwe	3	16	37	30	8	1e
Total	86 350	84 090	88 859	85 051	88 537	

## Vanadium (V-Content)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Brazil	6 798	6 562	7 045	7 582	7 212	1n
China	48 500	53 200	64 700	69 960	63 800	1e
India	0	442	76	100	100	2n
Russia	18 636	17 052	18 380	19 533	20 058	1n
South Africa	7 958	7 691	8 062	8 584	8 799	1n
United States		0	460	17	0	1e
<b>Total</b>	<b>81 892</b>	<b>84 947</b>	<b>98 723</b>	<b>105 776</b>	<b>99 969</b>	

## 6.4.2 Non-Ferrous Metals

### Aluminium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	431 239	439 600	438 434	309 804	338 239	1e
Australia	1 487 555	1 574 239	1 569 619	1 583 400	1 558 529	1e
Azerbaijan	28 500	45 390	32 700	28 560	31 000	1e
Bahrain	981 016	1 011 101	1 365 005	1 548 500	1 561 222	1n
Bosnia-Herzegovina	125 536	131 508	67 690	0	90 037	1e
Brazil	801 700	659 000	650 200	685 100	771 700	1e
Cameroon	68 598	65 900	53 200	47 500	36 400	1e
Canada	3 212 124	2 924 389	2 853 771	3 118 710	3 136 704	1e
China	33 289 600	36 831 000	35 361 600	37 080 400	38 503 200	1e
Egypt	298 000	267 100	290 000	268 000	270 000	2n
France	426 730	390 000	401 850	417 000	430 000	1e
Germany	550 000	528 900	507 934	529 056	509 193	1e
Ghana	40 500	42 867	43 908	37 566	39 239	1e
Greece	181 700	187 465	186 903	181 708	169 775	1e
Iceland	759 988	731 478	682 616	691 989	695 857	1e
India	3 400 618	3 696 181	3 635 089	3 619 237	4 012 000	1e
Indonesia	215 192	219 306	233 457	220 089	200 577	1n
Iran	337 608	304 800	258 166	424 475	543 715	1e
Kazakhstan	254 000	258 400	264 895	265 665	262 361	1e
Malaysia	760 000	760 000	760 000	980 700	901 000	1n
Montenegro	39 379	40 163	36 522	37 208	45 214	1e
Mozambique	577 495	571 125	564 756	571 125	564 756	1n
Netherlands	29 300	41 300	81 100	70 600	46 700	1q
New Zealand	336 740	340 678	351 481	333 314	333 135	1n
Norway	1 253 000	1 295 000	1 312 000	1 330 000	1 431 000	1n
Oman	252 714	379 775	390 515	396 929	395 360	1n
Qatar	620 000	616 000	627 400	631 400	634 270	1n
Romania	282 074	282 810	280 326	271 307	293 399	1n
Russia	3 583 000	3 774 000	3 894 400	3 928 800	3 931 000	1n
Saudi Arabia	762 068	775 500	775 561	796 004	998 915	1n
Slovakia	173 492	173 721	174 794	151 875	163 995	1n
Slovenia	84 424	80 511	68 255	50 185	37 867	1n
South Africa	716 000	714 000	717 000	717 000	714 000	1n
Spain	360 000	350 000	230 000	200 000	190 000	2q
Sweden	123 000	125 000	120 000	117 000	124 000	1n

Tajikistan	103 147	95 800	100 800	84 000	61 000	1e
Turkey	75 523	73 291	78 100	79 600	82 000	1e
United Arab Emirates	2 600 000	2 640 000	2 579 000	2 505 000	2 577 680	1n
United Kingdom	46 500	44 400	39 400	35 700	37 600	1q
United States	740 884	896 652	1 126 032	1 026 617	907 846	1e
Venezuela	136 000	64 700	10 000	9 996	38 340	1n
<b>Total</b>	<b>60 544 944</b>	<b>64 443 050</b>	<b>63 214 479</b>	<b>65 381 119</b>	<b>67 668 825</b>	

## Antimony

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	3 131	2 173	2 032	3 903	3 380	1n
Bolivia	2 881	3 110	2 747	2 629	3 084	1e
Canada	1	5	2	2	2	2n
China	97 683	70 396	68 422	60 995	41 480	1e
Ecuador	260	0	0	0	0	1e
Guatemala	0	0	150	50	0	1e
Honduras	0	20	15	10	120	1e
Iran	620	1 645	330	1 065	1 960	1a
Kazakhstan	350	150	0	0	0	1e
Kyrgyzstan	1 380	680	20	20	0	1e
Laos	320	330	70	0	240	1e
Mexico	240	300	289	136	413	1e
Myanmar	4 500	2 640	4 800	6 600	2 870	1n
Pakistan	15	20	0	17	33	1n
Russia	6 120	30 828	21 671	17 532	9 750	1e
Tajikistan	26 370	28 890	29 900	23 570	26 150	2n
Turkey	4 840	3 570	3 815	2 570	4 210	1e
Vietnam	230	245	396	312	305	3e
<b>Total</b>	<b>148 941</b>	<b>145 002</b>	<b>134 659</b>	<b>119 411</b>	<b>93 997</b>	

## Arsenic

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Belgium	1 000	1 000	1 000	1 000	1 000	2b
Bolivia	20	238	126	50	100	1e
China	25 000	24 000	24 000	24 000	24 000	2b
Iran	400	0	0	0	0	1a
Japan	45	45	45	40	40	2n
Morocco	6 879	5 578	5 055	7 694	6 883	1n
Namibia	700	0	0	0	0	1n
Peru	22 403	20 376	24 915	19 014	21 872	1e
Russia	1 000	500	102	500	1 000	2n
<b>Total</b>	<b>57 447</b>	<b>51 737</b>	<b>55 243</b>	<b>52 298</b>	<b>54 895</b>	

## Bauxite (crude ore)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	89 420 589	95 947 593	105 543 787	103 626 811	103 266 404	1e
Bosnia-Herzegovina	740 384	760 244	1 043 343	619 748	675 269	1e
Brazil	38 072 100	32 377 000	31 937 900	32 897 800	35 949 600	1n
China	68 390 000	70 751 000	73 323 700	70 000 000	68 400 000	1e
Colombia	2 400	13 666	18 033	9 595	3 200	1e
Cote d'Ivoire			0	272 295	700 000	2e
Croatia	12 215	11 776	14 342	14 084	14 448	1e
Dominican Republic	0	0	0	9 475	80 058	1e
Fiji	118 540	57 960	0	0	0	1e
France	131 012	138 800	120 760	123 496	142 764	1e
Ghana	1 476 966	1 011 302	1 116 334	1 162 086	839 465	1e
Greece	1 927 150	1 559 359	1 379 123	1 428 631	1 227 498	1e
Guinea	51 701 564	59 573 707	70 173 326	87 766 199	87 438 557	1e
Guyana	1 459 223	1 926 053	1 919 747	595 943	618 552	1e
Hungary	1 300	4 200	0	0	0	1e
India	22 786 106	23 689 619	21 825 227	20 380 548	22 493 947	1e
Indonesia	1 733 380	11 023 850	16 592 740	25 859 895	25 781 187	1e
Iran	804 510	866 683	828 788	1 042 325	883 950	1a
Jamaica	8 244 628	10 058 228	9 022 286	7 546 139	5 949 600	1e
Kazakhstan	4 846 100	6 104 200	4 118 400	4 057 800	4 370 100	1e
Malaysia	830 000	589 685	900 561	594 715	47 577	1e
Montenegro	927 847	468 164	774 725	791 813	526 760	1a
Mozambique	3 182	9 912	8 024	6 491	7 852	1e
Pakistan	75 375	145 189	92 936	101 047	97 495	1e
Russia	5 845 000	7 057 000	6 641 000	6 647 000	6 565 000	1e
Saudi Arabia	4 125 000	4 906 000	5 127 000	5 227 927	5 488 000	1e
Sierra Leone	1 787 716	1 938 461	1 883 863	1 342 139	1 396 678	1n
Solomon Islands	1 523 900	1 646 200	1 234 030	841 890	0	1e
Tanzania	12	7	0	26	38	1e
Turkey	1 719 144	678 138	2 255 480	2 399 680	2 764 873	1e
United States	352 100	399 700	154 900	16 440	0	1e
Venezuela	242 000	92 000	50 000	0	22 000	1e
Vietnam	2 565 000	3 569 700	3 700 000	3 610 000	4 100 000	2n
<b>Total</b>	<b>311 864 443</b>	<b>337 375 396</b>	<b>361 800 355</b>	<b>378 992 038</b>	<b>379 850 872</b>	

## Beryllium (concentrates)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Brazil	69	39	9	10	10	2n
China	1 250	1 250	1 750	1 750	1 750	2n
Madagascar	140	140	30	30	30	2n
Mozambique	53	416	45	80	330	1e
Nigeria	0	35	1	2	0	1e
Rwanda	30	30	20	20	20	2n
Uganda	0	24	15	186	190	2n
United States	3 760	4 170	4 050	4 160	4 380	1n
Zambia	4	7	7	2	6	1n
<b>Total</b>	<b>5 306</b>	<b>6 111</b>	<b>5 927</b>	<b>6 240</b>	<b>6 716</b>	



## Bismuth

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Armenia	1	0	0	0	0	1e
Bolivia	8	39	0	55	27	1e
Canada	4	5	4	4	4	2n
China	6 800	7 000	7 000	7 500	8 000	2n
Japan	525	571	540	570	500	2n
Kazakhstan	200	159	200	270	250	2n
Mexico	513	313	291	0	0	1e
Peru	123	145	73	74	248	1e
Russia	30	15	46	45	45	2n
Uzbekistan	0	0	2	2	2	2n
Vietnam	2 403	2 639	917	993	2 067	1n
<b>Total</b>	<b>10 607</b>	<b>10 886</b>	<b>9 073</b>	<b>9 513</b>	<b>11 143</b>	

## Cadmium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	96	74	80	46	0	1e
Brazil	180	300	450	100	50	2n
Bulgaria	333	313	315	311	343	1n
Canada	1 802	1 857	1 803	1 800	1 800	2n
China	8 411	10 349	10 000	10 000	10 000	2n
Germany	730	520	620	500	450	2n
India	47	0	0	0	0	1e
Japan	2 142	1 980	1 783	1 880	1 900	2n
Kazakhstan	2 690	850	1 200	1 500	1 500	2n
Korea, North	200	200	150	150	150	2n
Korea, South	4 960	5 100	3 950	4 100	4 000	2n
Mexico	1 142	1 307	952	978	1 051	1e
Netherlands	890	960	860	880	854	1b
Norway	416	380	370	344	390	1e
Peru	797	765	772	451	279	1e
Poland	309	305	199	80	292	1n
Russia	1 176	1 201	1 000	1 000	1 000	2n
United States	150	73	131	211	241	1e
Uzbekistan	306	237	250	450	470	2n
<b>Total</b>	<b>26 777</b>	<b>26 771</b>	<b>24 885</b>	<b>24 781</b>	<b>24 770</b>	

## Copper

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Albania	0	2 515	5 900	3 070	5 690	1e
Argentina	33 303	17 435	0	0	0	1e
Armenia	95 793	68 928	91 214	83 291	79 970	1e
Australia	849 121	910 896	925 157	868 019	795 955	1e
Azerbaijan	2 063	1 650	2 213	2 591	2 649	1n
Bolivia	7 219	5 216	4 478	2 822	3 310	1e

Botswana	1 239	1 462	0	0	11 742	1e
Brazil	384 542	385 762	363 268	353 258	335 761	1e
Bulgaria	110 290	112 850	114 240	107 610	104 020	1a
Canada	597 194	548 011	543 609	578 966	541 648	1e
Chile	5 503 500	5 831 600	5 787 400	5 733 100	5 624 900	1e
China	1 706 400	1 618 480	1 683 450	1 718 940	1 901 000	1e
Colombia	9 356	9 918	7 641	9 356	9 194	1e
Congo, D.R.	1 094 638	1 239 059	1 461 124	1 712 964	1 924 374	1e
Congo, Rep.	15 979	18 018	18 760	10 300	10 300	2n
Cyprus	1 293	908	703	0	0	1a
Dominican Republic	9 618	8 588	6 047	2 193	4 774	1e
Ecuador	8 200	42 200	9 900	49 700	89 170	1n
Eritrea	7 900	17 300	16 008	21 725	20 224	1n
Finland	53 144	46 755	32 861	36 278	32 384	1a
Georgia	9 400	9 100	9 500	8 000	8 130	1e
Germany	63	51	40	37	60	1e
India	31 550	32 530	28 585	25 260	26 580	1e
Indonesia	621 979	651 132	351 220	505 650	731 060	1n
Iran	295 653	316 380	314 143	313 323	313 612	1a
Kazakhstan	540 700	632 550	604 970	548 760	511 940	1e
Korea, North	15 000	15 000	2 000	2 000	2 000	2q
Korea, South	7	0	0	0	0	1e
Kyrgyzstan	8 956	8 813	8 640	6 500	8 100	1n
Laos	153 304	154 948	140 935	88 163	38 349	1n
Mauritania	28 791	28 137	29 620	28 491	18 846	1e
Mexico	742 246	696 580	713 704	800 316	734 137	1e
Mongolia	314 920	309 750	290 980	291 010	303 030	1e
Morocco	35 420	32 430	30 720	31 750	50 340	1e
Myanmar	126 930	179 310	219 200	196 500	200 360	1n
Namibia	15 466	15 177	14 940	15 741	950	1e
North Macedonia	8 966	7 718	7 231	6 625	6 810	1e
Pakistan	10 052	12 538	13 049	13 200	18 806	1n
Panama		0	147 480	205 548	331 000	1n
Papua New Guinea	105 448	96 277	99 432	82 841	66 531	1n
Peru	2 445 585	2 437 035	2 455 440	2 150 126	2 299 277	1e
Philippines	68 156	69 933	71 892	60 856	51 586	1e
Poland	419 300	401 300	398 900	392 700	391 300	1e
Portugal	63 812	49 064	41 553	32 230	39 443	1e
Romania	8 160	8 555	9 180	9 130	9 240	1n
Russia	761 100	870 500	812 400	924 100	934 000	2e
Saudi Arabia	43 150	59 200	66 610	75 370	75 180	1n
Serbia	45 115	44 096	43 550	52 207	121 150	1n
Slovakia	32	21	17	20	76	1e
South Africa	65 532	46 900	52 501	29 068	28 307	1e
Spain	198 353	187 714	170 556	182 678	138 060	1a
Sweden	104 594	106 140	99 332	100 065	88 108	1a
Tajikistan	6 060	8 490	8 500	978	4 480	1e
Tanzania	15 800	10 000	14 187	11 700	11 520	2q
Turkey	85 200	87 000	73 300	107 000	108 100	1q
United States	1 260 000	1 220 000	1 260 000	1 200 000	1 230 000	1e
Uzbekistan	109 000	117 000	137 300	142 800	148 500	1e
Vietnam	21 100	25 300	29 240	30 780	33 580	1n
Zambia	799 329	857 847	796 430	882 061	827 107	1e
Zimbabwe	8 839	9 077	8 731	7 933	8 650	1e
Total	20 083 860	20 701 144	20 649 981	20 855 700	21 415 370	

## Gallium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
China	290	305	356	290	420	1e
Japan	3	3	3	3	3	2n
Korea, South	3	3	2	2	2	1b
Russia	5	6	8	5	5	2n
Ukraine	9	6	5	4	4	2n
<b>Total</b>	<b>310</b>	<b>323</b>	<b>374</b>	<b>304</b>	<b>434</b>	

## Germanium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
China	87	95	85	86	132	1e
Japan	2	2	2	2	2	2n
Russia	6	6	5	5	5	2n
Ukraine	1	1	1	1	1	2n
United States	2	2	2	2	2	2n
<b>Total</b>	<b>98</b>	<b>106</b>	<b>95</b>	<b>96</b>	<b>142</b>	

## Indium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Belgium	20	20	20	20	20	2b
Brazil	5	0	0	0	0	2n
Canada	67	58	61	61	44	1e
China	355	395	490	528	540	2n
France	30	43	38	40	40	2n
Germany	10	0	0	0	0	1e
Japan	70	70	70	66	66	2b
Korea, South	215	235	225	210	190	1b
Peru	5	5	7	7	7	2n
Russia	5	4	6	10	10	2n
<b>Total</b>	<b>782</b>	<b>830</b>	<b>917</b>	<b>942</b>	<b>917</b>	

## Lead

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	40 135	28 260	42 957	23 008	17 098	1n
Australia	395 190	446 571	500 985	494 271	485 487	1e
Bolivia	113 286	112 140	88 002	64 619	92 767	1e
Bosnia-Herzegovina	6 740	7 070	7 470	6 110	6 310	1n
Brazil	6 959	7 277	5 715	5 351	6 307	1n

Bulgaria	22 860	24 200	23 350	20 680	21 420	1a
Canada	20 477	17 874	22 608	3 770	70 156	1e
Chile	1 562	712	7	1 386	382	1e
China	2 080 000	2 033 000	2 097 000	1 969 000	2 000 000	2n
Cuba	1 500	25 380	36 000	30 000	30 000	2n
Finland		0	937	1 532	1 494	1a
Greece	12 075	15 345	14 818	19 717	16 773	1n
Guatemala	4 200	264	377	0	0	1e
Honduras	6 761	9 893	12 308	13 400	14 000	2n
India	172 720	205 920	197 080	216 280	211 200	1e
Indonesia	7 635	10 880	9 450	7 090	6 735	1n
Iran	44 900	49 600	72 500	81 800	74 100	2a
Ireland	17 100	16 712	16 053	14 401	13 192	1e
Kazakhstan	111 200	86 500	55 700	30 200	29 900	1e
Korea, North	31 600	35 000	25 000	24 000	25 000	2q
Korea, South	3 760	2 340	1 930	1 680	1 530	1e
Kosovo	5 100	4 700	3 960	3 870	5 250	1e
Laos	660	330	250	90	170	1n
Mexico	243 022	230 869	372 106	468 486	272 231	1e
Mongolia	7 390	11 320	13 500	12 400	9 700	1e
Montenegro	3 050	3 100	3 480	640	0	1e
Morocco	38 040	30 360	32 770	38 190	31 340	1e
Myanmar	14 890	24 930	35 090	27 000	12 900	1n
Namibia	5 805	4 291	6 320	8 890	10 130	1e
Nepal	3 900	0	0	1 800	5 550	1e
Nigeria	24 260	17 900	23 550	20 100	45 500	1n
North Macedonia	39 850	41 900	43 490	44 930	42 870	1e
Pakistan	3 050	4 820	8 090	7 094	7 277	1n
Peru	306 784	289 123	308 116	241 548	264 162	1e
Poland	39 000	40 210	48 510	46 790	29 430	1e
Portugal	5 164	19 440	27 852	28 178	29 526	1e
Romania	720	1 200	520	510	690	1e
Russia	204 700	206 100	207 900	200 700	199 500	2e
Serbia	8 790	9 110	9 970	8 420	6 330	1e
Slovakia	147	114	111	102	101	1e
South Africa	48 150	35 118	42 936	28 048	31 224	1e
Spain	3 268	9 936	11 390	11 397	10 880	1a
Sweden	71 112	64 751	68 635	65 402	65 404	1a
Tajikistan	61 090	52 990	65 570	41 630	49 970	1e
Turkey	74 990	75 990	71 480	81 520	93 660	1n
United Kingdom	100	100	150	100	100	2e
United States	310 000	280 000	274 000	297 000	286 000	1e
Uzbekistan	26 000	21 300	19 100	18 400	30 500	1n
Vietnam	4 500	14 500	12 500	14 100	16 350	1n
Total	4 654 192	4 629 440	4 941 593	4 745 630	4 680 596	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	12 360	13 810	13 670	12 620	12 870	1e
Australia	98 650	115 200	105 700	89 300	113 600	1n
Bolivia	20	10	160	80	410	1e
Brazil	533	786	2 575	4 065	5 670	1e
Canada	66	8 750	1 200	0	0	1e
Chile	32 520	38 850	44 940	49 730	65 060	1e
China	14 700	15 300	19 000	28 800	30 500	2n
Namibia	0	600	0	0	0	1e

Nigeria	0	50	10	0	20	2e
Portugal	604	914	710	280	225	1e
United States	1 420	1 500	1 450	1 220	2 505	1e
Zimbabwe	1 850	3 160	2 650	860	1 670	1e
<b>Total</b>	<b>162 723</b>	<b>198 930</b>	<b>192 065</b>	<b>186 955</b>	<b>232 530</b>	

## Mercury

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	54	50	50	0	0	1e
Chile	5	3	0	0	0	2n
China	1 949	2 303	2 046	1 993	1 400	1e
Iran	3	0	0	0	0	2n
Kyrgyzstan	10	88	20	20	10	2n
Mexico	200	230	50	70	40	2e
Morocco	10	5	2	2	2	2n
Russia	50	50	50	30	30	2n
Tajikistan	100	120	80	160	160	2n
United States	15	15	15	15	15	2n
<b>Total</b>	<b>2 396</b>	<b>2 864</b>	<b>2 313</b>	<b>2 290</b>	<b>1 657</b>	

## Rare Earth Minerals (REO-Content)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	17 264	18 556	17 660	19 440	21 970	1n
Brazil	1 900	510	380	450	580	1e
Burundi	31	631	195	296	134	1n
China	105 000	120 000	132 000	140 000	168 000	1e
India	1 360	2 110	2 520	2 500	2 600	2n
Madagascar	0	2 400	3 200	4 300	4 100	1n
Malaysia	180	990	70	10	30	1e
Myanmar	5 000	20 400	17 100	21 000	27 100	1n
Russia	2 500	2 596	2 620	2 663	2 276	1n
United States	0	14 000	27 620	38 503	42 413	1n
<b>Total</b>	<b>133 235</b>	<b>182 193</b>	<b>203 365</b>	<b>229 162</b>	<b>269 203</b>	

## Rhenium

Country	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg	Rem
Armenia	260	280	310	260	170	2n
Chile	20 451	26 052	24 003	14 549	18 831	1n
China	2 500	2 500	2 500	2 500	2 500	2b
Kazakhstan	2 600	1 600	1 000	1 000	1 000	2n
Poland	7 564	6 290	5 770	6 580	6 401	1e

Russia	1 500	1 000	1 000	2 000	2 000	2n
United States	8 200	8 220	8 360	8 830	9 290	1e
Uzbekistan	530	500	800	1 000	2 370	1e
Total	43 605	46 442	43 743	36 719	42 562	

## Selenium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Armenia	1	0	0	0	0	1e
Belgium	200	200	200	200	200	2b
Canada	72	85	102	102	57	1e
China	720	930	1 250	1 120	1 400	1e
Finland	100	109	115	84	100	1a
Germany	300	300	300	300	300	2n
India	17	17	17	20	20	2n
Japan	792	768	740	740	720	2b
Kazakhstan	40	10	10	0	0	1n
Mexico	112	107	127	106	135	1e
Peru	49	52	56	53	48	1n
Philippines	100	100	100	100	200	2n
Poland	74	66	76	74	66	1e
Russia	194	185	193	195	230	2n
Serbia	27	28	20	10	4	1e
Sweden	66	59	53	69	70	2n
United States	116	152	144	66	70	2n
Uzbekistan	25	28	30	40	90	1e
Total	3 005	3 196	3 533	3 279	3 710	

## Tellurium

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Bulgaria	5	4	3	4	3	1n
Canada	18	25	13	23	25	2n
China	470	480	380	260	530	1e
Japan	38	58	50	70	68	2b
Russia	44	35	38	55	60	2n
Sweden	35	45	41	42	41	1a
United States	0	0	2	2	2	2n
Uzbekistan	3	2	2	3	5	1e
Total	613	649	529	459	734	

## Tin

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	7 402	6 871	7 738	8 118	8 772	1e
Bolivia	18 386	17 251	17 147	14 709	19 628	1e
Brazil	17 081	17 591	14 867	16 893	15 517	1e
Burundi	123	122	143	121	95	1e
China	74 800	87 070	85 584	94 460	91 000	1e
Colombia		0	22	10	0	1e
Congo, D.R.	10 391	8 950	10 990	14 670	15 750	1e
India	13	16	12	13	20	1e
Indonesia	78 070	82 809	76 390	52 617	34 466	1e
Laos	975	430	530	600	890	1e
Malaysia	4 819	3 868	3 611	2 963	3 193	1e
Mongolia	20	25	20	0	1 160	1a
Myanmar	67 300	54 500	38 900	33 440	33 930	1n
Namibia		0	7	242	492	1n
Nigeria	8 260	7 850	6 900	5 970	6 890	1n
Peru	17 790	18 601	19 853	20 647	26 995	1e
Portugal	81	111	108	104	60	1e
Russia	1 011	1 531	2 471	2 559	3 317	1e
Rwanda	3 430	3 405	2 780	2 030	2 260	1e
Spain	24	81	101	115	220	1q
Tanzania	68	6	18	35	158	1e
Thailand	341	47	46	198	220	1e
Uganda	66	53	15	0	0	1e
United Kingdom	255	220	0	0	0	1n
Vietnam	5 200	5 745	6 369	6 798	6 000	2q
Total	315 906	317 153	294 622	277 312	271 033	

## Zinc

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	350	500	500	1 000	500	2n
Argentina	23 392	22 050	19 462	11 320	6 188	1n
Armenia	6 070	6 946	7 162	8 684	7 706	1e
Australia	852 164	1 146 781	1 337 321	1 314 910	1 315 160	1e
Bolivia	527 206	519 630	527 521	358 411	499 257	1e
Bosnia-Herzegovina	9 180	9 350	9 160	6 610	7 310	1n
Brazil	156 348	169 773	163 403	174 332	159 913	1e
Bulgaria	19 250	20 390	19 170	17 520	17 910	1a
Burkina Faso	91 530	99 162	106 680	78 990	84 170	1e
Canada	346 776	304 964	323 000	247 534	310 158	1e
Chile	29 008	26 810	5 620	28 662	27 915	1e
China	3 868 500	3 721 000	4 213 000	4 058 000	4 136 000	1e
Congo, D.R.	12 337	1 047	1 607	15 305	16 079	1e
Congo, Rep.	4 270	460	4 830	1 100	4 300	1e
Cuba	2 900	42 250	57 830	57 730	44 500	1n
Dominican Republic	3 920	4 038	5 527	2 361	4 986	1e
Eritrea	95 400	125 000	121 260	121 930	129 641	1n
Finland	66 284	85 067	69 800	61 213	59 080	1a
Greece	18 715	21 515	22 322	28 090	22 621	1n
Guatemala	6 100	0	0	0	0	1e
Honduras	20 437	28 422	29 454	30 200	32 300	2n

India	772 600	728 400	719 220	756 090	796 100	1e
Indonesia	13 800	21 100	25 215	20 390	14 780	1n
Iran	129 900	143 600	209 900	215 200	195 100	2a
Ireland	130 600	131 742	122 463	127 008	112 249	1e
Kazakhstan	345 000	346 000	321 900	335 400	318 000	1q
Korea, North	36 000	30 000	25 700	25 000	28 000	2q
Korea, South	3 320	3 660	4 110	4 250	4 370	1e
Kosovo	4 500	3 600	3 050	3 890	3 620	1e
Laos	0	3 080	1 250	860	5 400	1n
Mexico	671 444	662 355	859 194	1 008 252	742 926	1e
Mongolia	41 350	43 950	41 550	38 150	39 490	1a
Montenegro	8 820	10 670	9 520	10 130	9 360	1e
Morocco	51 700	57 700	43 570	35 810	40 230	1e
Myanmar	13 150	12 240	13 680	11 310	6 200	1n
Namibia	131 920	118 310	124 630	62 260	41 180	1e
Nigeria	22 130	26 920	23 220	26 620	32 220	1n
North Macedonia	27 510	29 720	31 040	31 750	30 070	1e
Pakistan	19 460	26 980	37 365	35 054	35 391	1n
Peru	1 473 073	1 474 674	1 404 382	1 334 570	1 532 173	1e
Poland	50 000	43 000	40 000	43 000	0	1e
Portugal	71 357	144 983	161 569	176 849	188 395	1e
Romania	770	330	1 260	100	100	2n
Russia	255 200	288 000	275 400	260 700	306 000	2e
Saudi Arabia	21 787	27 100	27 270	26 790	22 710	1n
Serbia	7 400	8 230	7 510	11 480	11 310	1e
Slovakia	166	151	119	96	25	1e
South Africa	30 778	28 129	125 157	160 816	193 785	1e
Spain	70 451	106 352	90 980	90 368	90 480	1a
Sweden	251 244	237 715	247 657	234 811	236 416	1a
Tajikistan	92 940	84 330	90 860	54 720	79 150	1e
Thailand	1 580	0	0	0	0	1e
Turkey	155 900	184 500	146 800	136 300	171 100	1e
United States	773 800	824 000	753 000	718 000	704 000	1e
Uzbekistan	47 200	38 400	35 400	37 200	42 000	1q
Vietnam	12 000	12 000	13 000	11 150	10 700	1n
Total	11 898 987	12 257 076	13 081 570	12 668 276	12 928 724	

### 6.4.3 Precious Metals

#### Gold

Country	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg	Rem
Algeria	137	286	70	58	71	1e
Angola		0	23	59	35	1e
Argentina	60 956	58 397	53 125	34 936	37 280	1n
Armenia	4 670	4 967	5 825	5 284	3 714	1n
Australia	292 022	313 028	326 304	327 952	307 170	1e
Azerbaijan	3 667	4 239	3 897	3 635	3 427	1n
Benin	5	5	5	5	5	2n
Bolivia	28 726	31 599	42 000	23 207	45 662	1e
Botswana	913	1 105	943	851	649	1a
Brazil	79 717	85 198	89 988	98 922	93 103	1e
Bulgaria	8 670	8 995	7 467	9 349	9 695	1n
Burkina Faso	46 398	52 622	50 302	62 138	66 858	1e



Burundi	953	598	573	863	986	1e
Cambodia				0	1 466	1n
Cameroon	713	448	341	400	440	1e
Canada	178 568	194 155	190 542	178 055	222 524	1e
Central African Republic	118	142	359	401	840	1e
Chile	37 911	37 066	38 455	33 895	34 248	1e
China	426 142	401 119	380 230	365 340	328 980	1e
Colombia	43 158	35 965	38 006	48 561	55 534	1e
Congo, D.R.	31 586	36 777	33 752	29 597	31 445	1e
Congo, Rep.	100	150	150	150	150	2n
Costa Rica	4 255	3 699	4 500	600	600	2n
Cote d'Ivoire	25 396	24 488	32 568	38 523	41 855	1e
Cyprus	48	47	33	61	0	1a
Dominican Republic	35 243	31 633	31 801	28 154	25 437	1e
Ecuador	6 368	8 213	6 293	9 086	15 026	1n
Egypt	16 941	14 694	14 946	14 069	12 919	1n
Eritrea	2 633	3 768	2 443	3 019	4 625	1n
Eswatini	0	4	6	1	0	1e
Ethiopia	5 390	3 495	2 800	7 500	9 600	1e
Fiji	1 425	1 281	1 106	1 090	1 107	1e
Finland	9 102	8 732	7 927	8 668	9 082	1a
French Guiana	1 486	1 320	1 157	1 058	1 188	1e
Gabon	620	83	107	55	200	1e
Georgia	3 032	2 913	4 052	5 401	3 513	1q
Germany	7	9	15	10	12	1e
Ghana	143 438	149 057	142 371	125 114	87 676	1e
Greece	823	2 839	2 333	2 177	3 315	1e
Guatemala	1 646	0	0	0	0	1e
Guinea	46 847	25 823	27 708	91 798	102 046	1e
Guyana	20 334	19 069	19 963	18 209	15 522	1e
Honduras	2 656	2 070	3 035	1 963	2 824	1n
India	1 651	1 664	1 742	1 127	1 251	1e
Indonesia	101 510	135 250	108 900	66 190	72 660	1n
Iran	7 100	7 600	8 140	6 919	6 990	1a
Japan	6 369	6 453	6 313	7 590	6 225	1e
Kazakhstan	85 339	100 288	106 559	116 964	114 843	1e
Kenya	503	472	395	150	292	1e
Korea, North	10 000	10 000	10 000	10 000	10 000	2q
Korea, South	285	239	181	170	162	1e
Kyrgyzstan	22 795	22 602	26 127	24 150	24 870	1n
Laos	5 988	5 579	5 207	5 097	8 742	1n
Liberia	6 071	7 289	5 068	4 396	7 860	1e
Madagascar	2 834	3 052	2 423	1 779	2 000	2n
Malaysia	2 124	2 978	3 151	1 716	1 781	1e
Mali	49 622	60 893	66 739	71 200	69 400	1e
Mauritania	9 096	9 236	13 554	14 125	6 499	1n
Mexico	126 820	141 143	133 893	142 787	124 776	1e
Mongolia	19 849	20 655	16 235	20 226	19 054	1a
Morocco	220	386	221	143	147	1n
Mozambique	166	507	430	488	764	1e
Myanmar	1 620	467	267	871	773	1e
Namibia	7 800	6 632	7 016	6 718	7 648	1n
New Zealand	10 288	10 045	8 217	5 860	5 815	1e
Nicaragua	7 367	7 703	9 190	8 087	11 144	1a
Niger	914	6 207	5 224	2 361	4 010	1e
Nigeria	7 000	10 000	9 000	1 520	2 000	2n
North Macedonia	972	767	593	448	470	2n
Panama	0	0	1 869	2 633	4 405	1n
Papua New Guinea	61 678	67 282	71 050	52 510	39 145	1n
Peru	151 964	140 211	128 413	88 054	97 339	1e
Philippines	22 749	20 765	20 687	21 030	25 332	1e
Poland	572	523	674	878	768	1e

Romania	960	900	500	500	500	2q
Russia	270 300	279 850	305 050	308 560	313 830	1e
Rwanda	2 000	2 163	2 000	2 000	2 000	2n
Saudi Arabia	10 465	13 397	12 418	13 222	12 413	1e
Senegal	7 255	12 508	14 550	12 408	14 678	1n
Serbia	1 199	839	1 452	1 550	4 794	1n
Sierra Leone	142	464	75	25	149	1a
Slovakia	447	515	346	336	392	1e
South Africa	137 290	117 144	105 185	95 786	105 036	1e
Spain	1 825	1 991	1 913	1 609	1 822	1a
Sudan	107 300	93 600	57 700	35 700	49 700	1e
Suriname	25 844	26 006	24 516	21 214	18 634	1n
Sweden	7 858	7 866	7 972	8 249	8 805	1a
Taiwan	4	4	6	3	1	1e
Tajikistan	5 500	6 432	8 100	8 764	9 330	1n
Tanzania	43 490	39 304	48 408	55 805	59 638	1e
Togo	19 960	10 000	8 227	3 565	3 600	2n
Turkey	23 090	27 100	39 000	42 100	39 290	1e
Uganda	4	12	7	10	10	2n
United Kingdom	0	0	50	28	79	1n
United States	236 986	225 528	201 000	193 400	187 000	1e
Uruguay	1 055	393	0	0	0	1e
Uzbekistan	89 900	92 716	100 900	100 000	100 360	1n
Venezuela	8 100	9 100	9 100	9 000	9 000	2q
Vietnam	557	570	540	559	664	1n
Zambia	4 373	4 044	4 522	3 994	3 987	1n
Zimbabwe	26 495	35 054	29 429	20 873	31 477	1e
Total	3 336 485	3 384 486	3 327 965	3 205 661	3 235 183	

## Palladium

Country	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg	Rem
Australia	610	430	390	420	380	1e
Canada	19 140	20 880	23 340	21 430	15 260	1e
China	1 400	1 300	1 300	1 300	1 300	2n
Finland	1 021	1 157	699	858	1 036	1a
Poland	7	5	5	4	4	2n
Russia	76 270	92 570	92 900	81 990	83 630	1n
Serbia	50	55	100	100	140	1e
South Africa	80 713	80 629	80 684	66 264	84 336	1e
United States	13 600	14 267	14 323	14 555	13 725	1n
Uzbekistan		0	28	91	160	1e
Zimbabwe	11 822	12 094	11 640	12 890	12 619	1e
Total	204 633	223 387	225 409	199 902	212 590	

## Platinum

Country	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg	Rem
Australia	155	110	95	100	90	1e
Canada	6 850	7 460	8 340	8 360	5 960	1e
China	2 500	2 500	2 500	2 500	2 500	2n

Colombia	567	270	178	414	618	1e
Finland	1 418	1 576	953	1 277	1 447	1a
Poland	11	8	8	6	5	2n
Russia	22 400	21 370	22 420	21 740	19 840	1n
Serbia	3	6	10	22	30	1e
South Africa	132 500	137 053	132 989	111 993	141 626	1e
United States	3 980	4 165	4 152	4 203	4 017	1n
Zimbabwe	14 257	14 703	13 857	15 004	14 732	1e
<b>Total</b>	<b>184 641</b>	<b>189 221</b>	<b>185 502</b>	<b>165 619</b>	<b>190 865</b>	

## Rhodium

Country	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg	Rem
Canada	600	750	830	730	520	2n
Russia	2 426	2 146	2 115	1 800	1 650	1n
South Africa	18 665	18 608	19 545	16 972	20 875	1e
United States	100	100	100	100	100	2n
Zimbabwe	1 283	1 334	1 224	1 368	1 334	1e
<b>Total</b>	<b>23 074</b>	<b>22 938</b>	<b>23 814</b>	<b>20 970</b>	<b>24 479</b>	

## Silver

Country	2017 kg	2018 kg	2019 kg	2020 kg	2021 kg	Rem
Algeria	25	30	30	20	12	1e
Argentina	997 961	1 023 768	1 070 670	767 087	842 600	1n
Armenia	17 200	16 700	17 922	19 493	19 480	1n
Australia	1 120 175	1 254 480	1 325 089	1 337 344	1 329 718	1e
Azerbaijan	6 949	8 943	8 160	7 590	8 988	1n
Bolivia	1 222 371	1 191 024	1 153 109	929 909	1 289 456	1e
Botswana				0	10 383	1e
Brazil	46 400	49 600	50 000	68 430	80 870	1n
Bulgaria	59 484	47 016	40 755	39 126	38 661	1n
Burkina Faso	5 470	6 160	5 670	10 012	8 897	1e
Canada	392 788	403 589	357 422	324 862	325 026	1e
Chile	1 318 582	1 370 237	1 309 321	1 575 794	1 383 041	1e
China	3 620 400	3 440 000	3 468 000	3 405 800	3 511 600	1n
Colombia	12 076	16 691	14 479	19 948	26 963	1e
Congo, D.R.	3 376	3 400	3 400	3 400	3 400	2n
Cote d'Ivoire	493	510	300	956	1 000	2n
Cyprus	99	180	97	486	0	1a
Dominican Republic	151 828	166 510	108 685	87 889	79 688	1e
Ecuador	68	192	2 892	1 792	23 698	1n
Eritrea	1 192	31 000	44 836	65 284	68 624	1n
Ethiopia	750	1 000	800	1 000	1 000	2n
Fiji	350	413	692	479	622	1e
Finland	13 654	12 849	40 461	54 833	45 338	1a
Georgia	21 000	20 042	4 100	11 200	12 700	1q
Germany	6 000	5 000	4 000	4 000	6 000	1e
Ghana	4 000	4 000	4 000	3 000	1 000	2n
Greece	34 220	39 150	37 790	51 111	44 086	1n
Guatemala	336 944	0	0	0	0	1e

Honduras	21 785	31 182	45 174	40 400	37 495	1n
India	557 691	679 386	609 340	705 795	647 140	1e
Indonesia	328 780	308 810	487 400	338 100	295 920	1n
Iran	50 000	50 000	50 000	50 000	50 000	2q
Ireland	1 344	1 160	1 578	918	1 342	1e
Japan	3 408	3 596	3 467	4 192	3 339	1e
Kazakhstan	1 041 838	969 347	1 022 068	1 035 181	1 004 789	1e
Korea, North	70 000	70 000	50 000	50 000	50 000	2q
Korea, South	8 863	7 090	5 245	7 203	10 001	1e
Kyrgyzstan	19 212	18 328	19 010	16 127	16 549	1n
Laos	42 841	37 465	34 443	29 075	26 998	1n
Malaysia	1 404	1 542	686	423	672	1e
Mali	2 900	2 844	3 000	3 000	3 000	2n
Mexico	5 815 034	7 243 341	7 485 602	7 424 554	6 118 000	1n
Mongolia	67 190	69 120	79 864	77 762	79 035	1e
Morocco	277 130	200 530	216 580	189 220	194 360	1n
Namibia	6 490	3 850	7 765	7 520	5 847	1n
New Zealand	8 022	6 332	4 060	1 393	3 055	1e
Nicaragua	15 419	11 263	17 362	20 411	21 460	1a
Niger	100	300	100	120	100	2n
North Macedonia	16 020	15 060	15 620	16 090	15 470	1n
Panama		0	35 217	49 628	78 419	1n
Papua New Guinea	69 650	113 890	162 630	118 193	90 200	1n
Peru	4 417 987	4 160 162	3 860 306	2 723 879	3 310 192	1e
Philippines	31 737	29 782	31 267	24 024	30 856	1e
Poland	1 289 900	1 264 300	1 249 000	1 218 200	1 302 900	1e
Portugal	40 186	90 760	95 270	95 954	97 945	1n
Romania	18 000	18 000	18 000	18 000	18 000	2q
Russia	1 373 000	1 400 100	1 407 000	1 380 000	1 280 000	2e
Saudi Arabia	5 133	6 480	7 123	7 479	6 818	1e
Senegal	660	940	898	1 090	1 310	1e
Serbia	12 340	8 970	14 502	15 900	11 600	1e
Slovakia	410	345	295	269	328	1e
South Africa	62 536	46 467	55 903	38 118	37 146	1e
Spain	82 907	88 514	77 501	92 662	80 848	1a
Sudan	2 000	1 000	1 000	1 000	1 000	2n
Sweden	467 500	443 624	419 926	400 929	428 585	1a
Tajikistan	6 550	9 500	11 100	11 350	11 500	2n
Tanzania	10 911	12 041	12 550	13 187	9 324	1e
Turkey	151 490	202 400	242 000	98 270	162 670	1e
United Kingdom	0	0	130	100	358	1n
United States	1 030 000	934 000	981 000	1 030 000	1 020 000	1e
Uzbekistan	232 300	161 700	172 000	196 000	211 500	1n
Total	27 054 523	27 836 005	28 085 662	26 342 561	25 938 922	

## 6.4.4 Industrial Minerals

### Asbestos

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	26	0	0	0	0	1e
Brazil	129 094	111 439	12 205	77 057	172 256	1e
China	125 000	170 000	125 000	120 000	120 000	2n

Kazakhstan	192 700	202 900	210 700	227 400	250 100	1e
Russia	710 250	752 917	789 600	707 811	750 000	2n
<b>Total</b>	<b>1 157 070</b>	<b>1 237 256</b>	<b>1 137 505</b>	<b>1 132 268</b>	<b>1 292 356</b>	

## Baryte

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	29 159	39 426	31 138	32 940	33 000	2n
Argentina	15 553	7 225	3 898	0	0	1e
Australia	8 958	6 535	1 982	0	1 127	1e
Bolivia	29 114	53 163	39 458	9 611	26 780	1e
Brazil	16 275	9 377	9 223	1 849	361	1e
Bulgaria	64 000	70 000	72 000	41 000	72 000	1e
Canada	50 000	50 000	40 000	40 000	50 000	2n
China	3 100 000	2 900 000	2 900 000	2 500 000	2 200 000	2n
Colombia	2 028	3 211	2 270	2 046	744	1e
Ecuador	0	2 868	2 000	2 000	1 000	2n
Egypt	4 000	4 000	4 000	4 000	4 000	2n
Germany	34 177	37 897	30 474	26 656	27 921	1e
Guatemala	43	63	50	50	100	2n
India	2 050 215	2 488 756	2 739 035	2 500 000	2 500 000	2n
Iran	514 711	477 227	247 207	285 756	297 469	1a
Kazakhstan	569 900	773 200	530 600	445 300	1 016 500	1e
Korea, North	4 200	4 200	4 000	4 000	4 000	2n
Laos	33 325	35 000	48 600	96 278	37 403	1e
Mexico	359 912	366 234	415 180	480 954	320 642	1e
Morocco	818 016	899 365	1 119 811	501 939	840 486	1e
Myanmar	3 206	9 658	12 439	2 642	2 220	1e
Nigeria	717	387	370	544	460	1e
Pakistan	91 711	88 847	116 480	55 341	51 553	1e
Peru	9 182	15 621	16 373	5 242	10 361	1e
Russia	221 000	265 300	163 000	265 000	252 000	1e
Slovakia	15 700	11 100	0	0	0	1e
Thailand	147 954	67 490	33 644	22 394	4 988	1e
Tunisia	10 000	10 000	10 000	10 000	11 100	2n
Turkey	292 447	465 138	413 811	283 161	256 076	1e
United Kingdom	55 000	55 000	50 000	50 000	50 000	2n
United States	334 000	366 000	414 000	125 409	257 450	1e
Vietnam	70 000	50 000	43 000	51 500	39 600	2n
<b>Total</b>	<b>8 954 503</b>	<b>9 632 288</b>	<b>9 514 043</b>	<b>7 845 612</b>	<b>8 369 341</b>	

## Bentonite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	35 600	36 000	36 700	34 200	36 000	2n
Argentina	156 750	184 969	120 000	98 000	133 235	1e
Armenia	24 712	0	0	0	0	1e
Australia	68 000	87 330	56 000	42 713	46 658	1e
Azerbaijan	235 617	212 336	222 519	155 112	174 242	1e
Bolivia	68	2	0	0	0	1e
Bosnia-Herzegovina	92 344	87 358	94 601	69 183	75 761	1e

Brazil	616 929	500 000	403 763	217 055	220 000	2n
Bulgaria	54 100	45 000	45 000	40 900	72 100	1a
Chile	1 584	525	395	170	170	1e
China	5 600 000	5 600 000	5 600 000	3 650 000	2 500 000	1e
Colombia	103 217	166 778	145 643	179 893	51 353	1e
Cuba	589	630	504	486	517	1e
Cyprus	95 593	98 800	83 113	92 645	81 655	1a
Czech Republic	254 000	277 000	357 000	226 000	198 000	1a
Denmark	69 594	56 173	48 197	40 054	20 281	1e
Egypt	4 600	10 000	7 000	7 000	7 000	2n
France	24 497	35 696	36 000	36 000	36 000	2n
Germany	416 000	379 000	366 000	333 000	363 000	1e
Greece	1 087 800	1 365 374	1 393 958	979 329	1 257 216	1e
Guatemala	20 542	16 953	12 700	6 000	7 378	1e
Hungary	24 630	25 000	41 500	42 000	42 000	2n
India	3 488 264	3 661 450	3 605 000	3 740 000	3 550 000	2n
Iran	517 524	423 604	761 079	714 684	1 153 283	1a
Italy	86 106	100 067	82 720	65 989	32 252	1e
Japan	250 000	250 000	250 000	250 000	250 000	2n
Kazakhstan	120 000	120 000	52 000	59 200	60 000	2n
Korea, South	47 306	31 824	43 886	5 314	34 243	1e
Mexico	148 475	264 800	24 321	79 219	80 000	2n
Morocco	174 546	172 749	188 081	92 387	134 340	1e
Mozambique	285	1 091	77 734	80 189	118 692	1e
Myanmar	600	540	0	500	500	2n
New Zealand	700	4 482	500	500	500	2n
North Macedonia	912	2 945	682	2 196	1 277	1e
Norway	0	3 234	0	0	12 803	1e
Pakistan	42 770	74 268	48 332	107 742	59 744	1e
Peru	756	2 383	46 887	25 532	56 199	1e
Philippines	2 620	10 800	13 050	4 720	6 059	1e
Poland	0	560	500	920	500	1e
Romania	28 005	34 809	41 964	45 495	54 648	1e
Russia	669 700	714 000	720 000	720 000	500 000	2e
Slovakia	226 425	269 990	260 120	261 640	274 050	1e
Slovenia	147	113	99	77	75	1e
South Africa	165 141	173 486	105 084	85 558	98 606	1e
Spain	177 565	178 463	160 477	205 773	171 572	1a
Turkey	1 481 617	1 331 955	1 533 547	1 658 837	2 020 356	1e
Turkmenistan	10 000	10 000	10 000	10 000	10 000	2n
Ukraine	113 200	178 200	124 700	125 000	125 000	2n
United States	4 450 000	4 570 000	4 520 000	4 250 000	4 590 000	1e
Uruguay	6 640	7 760	6 730	16 550	19 710	1e
Uzbekistan	10 000	12 559	32 588	48 739	50 000	2n
Total	21 206 070	21 791 056	21 780 674	18 906 501	18 786 975	

## Boron Minerals

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	129 918	71 212	181 818	134 604	188 870	1e
Bolivia	208 388	216 403	214 269	258 019	309 940	1e
Chile	607 076	398 411	352 255	288 103	363 032	1e
China	70 000	80 000	250 000	250 000	250 000	2n
Iran	850	851	2 026	1 495	2 000	2n
Kazakhstan	30 000	30 000	30 000	30 000	30 000	2n

Peru	0	100 552	111 108	43 645	246 362	1e
Russia	82 500	88 000	81 800	85 500	89 600	1n
Turkey	2 025 000	2 432 000	2 040 000	1 680 000	2 540 000	1e
United States	1 075 000	1 075 000	1 030 000	830 000	900 000	2n
<b>Total</b>	<b>4 228 732</b>	<b>4 492 429</b>	<b>4 293 276</b>	<b>3 601 366</b>	<b>4 919 804</b>	

## Diamonds (Gem)

Country	2017 ct	2018 ct	2019 ct	2020 ct	2021 ct	Rem
Angola	8 494 920	8 490 500	8 209 365	7 118 240	7 850 760	1c
Australia	342 690	280 160	243 090	199 600	0	1e
Botswana	16 058 700	17 064 600	16 580 900	11 807 600	15 887 200	1a
Brazil	84 115	82 810	53 240	41 300	46 670	1e
Canada	23 198 761	22 789 001	17 560 210	14 389 507	17 353 418	1e
Central African Republic	47 840	10 860	22 040	49 470	74 220	1c
China	230	99	51	21	0	1c
Congo, D.R.	2 268 332	1 815 745	2 020 450	2 588 850	2 594 650	1e
Cote d'Ivoire	8 925	4 540	3 989	4 012	4 121	1e
Ghana	69 540	46 025	27 030	20 230	43 340	1e
Guinea	136 090	219 530	171 880	96 430	204 990	1c
Guyana	39 120	46 580	41 240	14 430	33 830	1e
India	12 940	13 877	10 301	5 010	0	1e
Lesotho	1 126 409	1 294 283	1 113 526	481 243	339 452	1n
Liberia	36 380	45 330	33 560	32 760	37 820	1e
Namibia	1 713 800	1 985 670	1 722 830	1 428 445	1 446 964	1e
Russia	21 860 500	22 973 133	25 804 591	18 711 931	23 470 180	1e
Sierra Leone	165 860	402 530	433 054	603 360	541 400	1a
South Africa	4 485 710	4 594 990	3 373 210	3 958 300	4 506 940	1e
Tanzania	258 785	324 105	354 240	125 110	53 165	1e
Venezuela	0	800	0	794	457	1c
Zimbabwe	752 360	975 730	423 840	534 090	845 040	1e
<b>Total</b>	<b>81 162 007</b>	<b>83 460 898</b>	<b>78 202 637</b>	<b>62 210 733</b>	<b>75 334 617</b>	

## Diamonds (Ind)

Country	2017 ct	2018 ct	2019 ct	2020 ct	2021 ct	Rem
Angola	943 880	943 390	912 150	790 920	872 310	1c
Australia	16 792 040	13 727 890	11 911 450	9 780 400	0	1e
Botswana	6 882 300	7 313 400	7 106 100	5 060 400	6 808 800	1a
Brazil	170 780	168 130	108 085	83 840	94 760	1e
Cameroon	1 757	1 805	1 737	2 438	2 668	1c
Central African Republic	11 960	2 710	5 510	12 370	18 550	1c
Congo, D.R.	16 634 432	13 315 465	11 449 240	10 355 400	10 378 700	1e
Congo, Rep.	46 758	46 768	2 963	11 157	4 125	1c
Cote d'Ivoire	2 231	1 140	0	0	0	1e
Ghana	17 385	11 505	6 760	5 060	10 835	1e
Guinea	45 360	73 180	57 300	32 145	68 330	1c
Guyana	13 040	15 530	13 750	4 810	11 280	1e
India	26 760	24 560	18 515	8 910	266	1e
Liberia	24 250	30 220	22 370	21 840	25 210	1e
Namibia	90 200	104 510	90 675	75 180	76 156	1e

Russia	20 754 280	20 187 926	19 466 621	12 474 620	15 646 790	1e
Sierra Leone	122 380	339 070	391 403	83 040	297 700	1a
South Africa	5 206 885	5 316 840	3 807 495	4 512 540	5 216 870	1e
Tanzania	45 670	57 195	62 510	22 080	9 380	1e
Togo	0	0	16	0	0	1e
Venezuela	0	1 200	0	0	0	1c
Zimbabwe	1 755 500	2 276 690	1 695 350	2 136 370	3 380 140	1e
<b>Total</b>	<b>69 587 848</b>	<b>63 959 124</b>	<b>57 130 000</b>	<b>45 473 520</b>	<b>42 922 870</b>	

## Diatomite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	2 439	2 468	2 437	3 040	3 000	2n
Argentina	70 419	72 490	94 610	98 575	156 342	1e
Armenia	23 465	0	0	0	0	1e
Australia	1 085	4	8	2 011	25 935	1e
Brazil	30 192	20 562	17 673	35 574	10 665	1e
Chile	27 557	24 736	21 328	21 477	27 096	1e
China	400 000	280 000	420 000	420 000	200 000	2n
Costa Rica	4 218	3 972	4 000	4 000	4 000	2n
Czech Republic	34 000	31 000	43 000	46 000	18 000	1a
Denmark	110 000	99 400	108 800	115 000	120 600	1e
Ethiopia	4 000	5 000	5 000	5 000	5 000	2n
France	90 000	90 000	90 000	90 000	90 000	2n
Germany	56 721	58 340	53 802	51 511	58 519	1e
Iran	0	0	600	170	5 550	1a
Kenya	1 406	1 548	921	928	763	1e
Korea, South	133 741	25 902	40 910	65 240	49 616	1e
Mexico	96 474	152 028	129 274	144 105	160 956	1e
Mozambique	0	34 200	72 439	35 257	72 914	1e
Peru	96 590	96 532	91 103	85 406	94 860	1e
Poland	500	580	680	810	980	1e
Russia	52 000	50 600	51 000	51 000	176 800	1e
Spain	70 550	61 056	62 741	59 250	55 982	1a
Turkey	169 584	242 789	220 757	100 327	207 732	1e
United States	768 000	957 000	768 000	822 000	998 000	1e
<b>Total</b>	<b>2 242 941</b>	<b>2 310 207</b>	<b>2 299 083</b>	<b>2 256 681</b>	<b>2 543 310</b>	

## Feldspar

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	170 000	170 000	170 000	170 000	170 000	2n
Argentina	154 770	124 500	10 000	32 000	32 000	2n
Australia	329	542	50	1 241	52	1e
Austria	35 000	35 000	35 000	35 000	35 000	1e
Brazil	519 605	592 284	632 349	450 573	491 042	1e
Chile	4 421	2 789	55	329	0	1e
China	2 500 000	2 500 000	2 450 000	2 450 000	2 450 000	2n
Colombia	150 334	141 794	179 856	134 846	46 887	1e
Cuba	8 715	3 000	2 100	14 100	17 800	1e
Czech Republic	368 000	449 000	460 000	419 000	504 000	1a



Dominican Republic	5 000	1 200	1 000	0	0	1e
Ecuador	92 871	43 197	45 000	0	0	1e
Egypt	230 000	230 000	230 000	200 000	200 000	2n
Finland	14 926	17 469	17 997	16 137	52 706	1a
France	550 000	550 000	500 000	500 000	500 000	2n
Germany	276 747	252 693	235 289	221 527	223 007	1e
Guatemala	29 145	30 257	28 771	25 578	34 232	1e
India	4 270 245	8 486 262	6 172 997	4 820 000	6 430 000	2n
Indonesia	2 601 000	749 300	480 800	287 400	313 200	1e
Iran	1 128 585	1 320 452	2 415 368	1 910 505	2 803 515	1a
Italy	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	2n
Korea, South	717 177	617 166	396 898	415 426	987 309	1e
Malaysia	411 204	414 441	241 189	240 000	168 570	1e
Mexico	500 692	907 755	516 196	903 385	372 102	1e
Morocco	101 064	75 298	101 947	185 772	427 387	1e
Nigeria	27 660	41 355	33 702	19 453	43 997	1e
North Macedonia	21 237	30 813	29 519	13 115	26 625	1e
Norway	87 900	88 000	80 000	69 000	60 000	1e
Pakistan	273 468	151 743	295 381	343 075	451 985	1e
Peru	14 930	31 588	29 134	24 132	27 274	1e
Philippines	47 000	47 000	47 000	47 000	47 000	2n
Poland	91 200	71 480	42 160	29 440	11 110	1e
Portugal	126 211	130 475	106 754	122 969	145 362	1e
Romania	5 000	20 000	20 000	20 000	20 000	2n
Russia	293 300	281 300	281 300	290 000	290 000	2n
Saudi Arabia	197 000	175 594	216 000	523 000	549 000	1e
Slovakia	15 800	16 800	19 100	29 100	10 000	1e
South Africa	116 705	76 803	76 255	48 427	67 113	1e
Spain	819 218	616 229	855 139	911 095	820 749	1a
Sri Lanka	96 000	70 000	65 400	50 000	60 000	2n
Sudan	29 000	36 000	17 000	25 000	6 400	1e
Sweden	22 000	28 000	25 000	27 537	28 000	2n
Thailand	1 385 925	1 117 803	1 251 143	1 105 344	1 346 997	1e
Turkey	10 273 573	11 474 040	9 447 810	10 050 911	12 936 959	1e
Ukraine	35 000	50 000	60 000	50 000	60 000	2n
United States	440 000	550 000	450 000	430 000	340 000	1e
Uruguay	370	380	100	210	240	1e
Venezuela	30 340	30 000	30 000	30 000	30 000	2n
Total	31 488 667	35 049 802	31 000 759	29 891 627	35 837 620	

## Fluorspar

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Afghanistan	7 522	10 000	50 000	10 000	10 000	2n
Argentina	13 696	7 924	1 500	48 000	48 000	2n
Brazil	25 522	28 195	24 399	24 730	28 158	1e
Bulgaria	0	0	0	0	0	1a
Canada	0	20 000	80 000	50 000	50 000	2n
China	3 800 000	3 500 000	4 000 000	4 300 000	5 400 000	1e
Colombia	57	46	0	0	0	1e
Egypt	1 000	1 000	1 000	1 000	1 000	2n
Germany	45 375	49 197	79 959	64 933	56 632	1e
India	1 314	1 079	1 315	1 052	1 237	1e
Iran	55 297	55 000	54 824	55 000	55 000	2n
Kenya	6 945	0	0	0	0	1e
Korea, North	6 900	6 900	6 900	6 900	6 000	2n
Mexico	741 678	1 959 654	1 931 532	1 571 269	1 007 118	1e

Mongolia	319 330	555 230	699 400	678 900	644 300	1e
Morocco	75 509	87 874	73 244	83 833	189 012	1e
Nigeria			4 730	17 557	6 275	1e
Pakistan	2 263	2 777	4 186	5 981	7 841	1e
Russia	2 700	6 000	4 000	32 000	76 000	1e
South Africa	218 399	230 000	210 000	330 000	400 000	2n
Spain	154 931	176 188	145 185	185 958	143 523	1a
Tajikistan	0	400	1 000	10 000	10 000	2n
Thailand	5 500	16 700	22 247	9 807	9 766	1e
Turkey	20 150	6 200	14 400	19 896	10 348	1e
United Kingdom	11 000	11 000	14 000	15 000	16 674	1n
Vietnam	234 905	238 700	238 003	219 920	215 027	1n
<b>Total</b>	<b>5 749 993</b>	<b>6 970 064</b>	<b>7 661 824</b>	<b>7 741 736</b>	<b>8 391 911</b>	

## Graphite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Austria	150	150	100	100	100	2n
Brazil	95 000	78 981	81 770	67 020	78 555	1e
Canada	14 000	11 000	11 045	7 620	7 700	1e
China	625 000	630 000	700 000	665 000	735 000	1e
Colombia		0	135	0	0	1e
Germany	422	222	207	108	181	1e
India	33 649	39 030	34 674	35 386	57 264	1e
Korea, North	50 000	45 000	45 000	45 000	30 000	2n
Korea, South	0	670	302	3 052	18 297	1e
Madagascar	13 300	52 951	45 106	61 405	88 110	1e
Mexico	10 310	4 130	2 342	2 033	1 778	1e
Mozambique	802	104 000	153 000	18 159	77 116	1e
Namibia	2 216	3 456	0	0	0	1e
Norway	9 600	10 000	9 780	5 549	6 293	1n
Russia	19 500	11 900	17 500	12 900	17 300	1e
Sri Lanka	3 800	3 800	3 100	2 500	3 200	2n
Turkey	4 000	16 752	9 990	15 205	28 336	1e
Ukraine	13 000	15 000	10 000	10 000	17 000	1e
Vietnam	0	1 500	3 500	3 700	1 200	1n
Zimbabwe	1 577	0	0	0	0	1e
<b>Total</b>	<b>896 326</b>	<b>1 028 542</b>	<b>1 127 551</b>	<b>954 737</b>	<b>1 167 430</b>	

## Gypsum and Anhydrite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Afghanistan	40 000	36 161	24 682	21 779	16 349	1e
Albania	104 120	102 016	106 070	111 880	116 295	1e
Algeria	2 200 000	2 200 000	2 200 000	2 200 000	2 500 000	2n
Angola	32 000	32 000	32 000	32 000	50 000	2n
Argentina	1 275 608	897 217	761 013	499 092	690 000	2e
Armenia	14 336	20 387	22 907	28 508	26 885	1e
Australia	3 184 480	4 070 814	3 676 467	3 422 265	4 168 380	1e
Austria	712 469	836 862	900 217	901 619	900 374	1e
Azerbaijan	85 100	270 471	314 224	297 594	417 892	1e

Bhutan	328 128	461 128	490 596	331 050	403 753	1e
Bolivia	473	1 136	3 905	1 000	1 000	2n
Bosnia-Herzegovina	99 001	122 421	130 788	140 994	297 225	1e
Brazil	2 176 356	2 666 002	2 842 654	2 851 643	2 887 575	1e
Bulgaria	88 000	88 000	88 000	54 800	77 400	1a
Canada	3 001 390	3 240 451	2 444 963	3 049 824	3 135 484	1e
Chile	1 157 466	909 191	977 397	910 310	1 007 206	1e
China	25 000 000	25 000 000	25 000 000	25 000 000	25 000 000	2n
Colombia	406 624	396 373	294 137	284 222	293 186	1e
Croatia	147 934	211 894	199 255	221 629	285 966	1e
Cuba	85 400	99 900	66 330	62 300	53 200	1e
Cyprus	647 108	625 721	623 545	646 340	661 175	1a
Czech Republic	7 000	8 000	10 000	17 000	17 000	1a
Dominican Republic	217 570	190 660	316 630	304 920	329 630	1e
Egypt	835 614	727 370	800 000	800 000	800 000	2n
Eritrea	12 000	18 000	18 000	18 000	18 000	2n
Ethiopia	85 236	253 165	255 000	255 000	255 000	2n
France	3 014 296	5 314 983	3 259 935	1 891 190	3 370 757	1e
Georgia	85 470	91 700	137 831	87 655	90 000	2n
Germany	4 450 000	4 550 000	4 850 000	5 200 000	5 470 000	1e
Greece	547 140	827 298	589 012	622 834	900 000	1e
Guatemala	135 154	132 897	140 901	423 281	138 552	1e
Honduras	35 000	35 000	34 964	45 254	45 000	2n
India	2 048 127	4 664 046	3 006 046	6 788 200	3 547 250	1e
Iran	13 942 092	10 904 289	14 750 093	15 124 823	14 322 761	1a
Iraq	1 000 000	1 000 000	1 000 000	1 000 000	1 000 000	2n
Ireland	200 000	200 000	200 000	150 000	110 000	1e
Israel	116 000	75 800	72 000	0	0	2n
Italy	469 044	188 618	298 242	163 749	0	1e
Jamaica	46 000	47 000	55 000	66 000	66 000	1e
Jordan	344 191	190 606	264 724	184 917	399 968	1a
Kazakhstan	133 200	121 400	78 200	94 500	184 700	1e
Kenya	5 700	5 700	5 700	5 700	6 000	2n
Kyrgyzstan	100 000	152 842	150 000	23 019	31 680	1e
Laos	463 039	618 783	606 387	737 749	1 221 959	1e
Latvia	278 260	320 080	318 450	359 190	383 990	1e
Libya	150 000	150 000	200 000	200 000	200 000	2n
Mauritania	80 000	130 000	130 000	120 000	70 000	2n
Mexico	9 197 520	11 275 293	7 759 139	7 977 953	6 386 777	1e
Moldova	358 500	352 500	276 400	292 600	307 900	1e
Mongolia	56 000	47 700	107 100	97 900	111 400	1e
Myanmar	361 015	309 343	299 316	258 620	51 240	1e
Nicaragua	66 740	70 341	39 925	64 573	19 999	1a
Nigeria	39 939	39 052	22 142	30 706	13 401	1e
North Macedonia	217 491	230 029	267 181	229 322	273 497	1e
Norway	87 891	89 655	102 100	93 602	92 794	1e
Oman	8 438 286	9 666 701	10 982 900	11 120 200	13 243 981	1a
Pakistan	2 079 629	2 475 893	2 517 825	2 149 873	2 527 215	1e
Paraguay	4 500	4 500	4 500	4 500	4 500	2n
Peru	286 657	458 479	254 382	171 093	435 459	1e
Poland	1 108 000	1 042 000	1 065 000	1 057 000	1 123 000	1e
Portugal	152 059	232 921	209 076	210 231	254 913	1e
Romania	764 786	749 668	878 546	925 782	952 617	1e
Russia	3 750 000	5 453 400	4 179 300	4 060 000	4 629 000	1e
Saudi Arabia	3 150 000	3 352 832	3 472 000	3 803 000	3 993 000	1e
Slovakia	45 600	55 190	58 250	72 300	66 600	1e
South Africa	320 685	321 988	277 102	205 542	277 376	1e
Spain	9 545 228	10 593 056	11 279 443	13 376 353	14 629 150	1a
Sudan	333 000	226 000	193 000	173 000	136 000	1e
Switzerland	330 000	330 000	330 000	320 000	320 000	2n
Syria	66 000	66 000	70 000	70 000	70 000	2n
Tajikistan	43 066	9 639	14 000	8 183	10 000	2n

Tanzania	123 645	241 260	256 529	443 926	598 053	1e
Thailand	10 646 644	11 197 657	9 787 287	9 279 119	10 402 998	1e
Tunisia	944 245	984 031	946 892	890 000	908 130	1e
Turkey	10 223 112	10 896 476	7 489 129	9 280 864	10 620 061	1e
Ukraine	1 528 900	1 386 400	1 409 400	1 529 000	1 783 300	1e
United Kingdom	1 300 000	1 400 000	1 600 000	1 300 000	1 300 000	2n
United States	20 700 000	21 100 000	21 700 000	21 200 000	21 300 000	1e
Yemen	50 000	50 000	20 000	20 000	20 000	2n
<b>Total</b>	<b>155 905 264</b>	<b>167 914 386</b>	<b>160 614 129</b>	<b>166 467 072</b>	<b>172 829 953</b>	

## Kaolin

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	100 000	100 000	100 000	100 000	120 000	2n
Argentina	19 940	17 000	11 853	20 628	25 000	2e
Australia	192 150	173 738	114 050	154 812	173 187	1e
Austria	13 500	13 500	13 500	13 500	13 500	2n
Bosnia-Herzegovina	252 959	303 626	118 005	108 174	62 599	1e
Brazil	1 681 188	1 685 255	1 471 610	1 239 591	1 153 884	1e
Bulgaria	322 800	323 000	330 000	276 000	380 000	1a
Chile	60 000	88 262	34 801	38 789	49 533	1e
China	6 910 000	6 650 000	6 400 000	6 500 000	6 400 000	1e
Colombia	164 077	70 799	96 051	29 372	70 032	1e
Cuba	1 500	2 700	2 100	2 032	1 375	1e
Czech Republic	3 669 000	3 622 000	3 446 000	3 069 000	3 454 000	1a
Ecuador	548	0	0	0	0	1e
Egypt	230 000	230 000	230 000	230 000	230 000	2n
Eritrea	200	200	0	0	0	2n
Ethiopia	5 000	10 000	1 000	1 000	1 000	2n
France	279 120	301 842	392 389	231 579	289 057	1e
Germany	5 168 000	4 930 000	4 760 000	4 969 000	5 291 000	1e
Guatemala	657	724	700	402	295	1e
India	8 744 864	8 201 946	8 000 000	8 000 000	8 000 000	2n
Indonesia	736 600	1 368 400	2 754 600	1 636 000	1 568 000	1e
Iran	861 938	1 158 983	1 813 395	1 923 895	1 348 232	1a
Italy	200 000	300 000	250 000	200 000	180 000	2n
Japan	12 000	12 000	12 000	12 000	12 000	2n
Jordan	11 000	11 000	11 000	11 000	11 000	2n
Kenya	1 000	1 000	1 000	800	900	1n
Korea, South	416 648	369 274	317 626	393 236	352 003	1e
Kyrgyzstan	40 000	15 000	15 000	15 000	15 000	2n
Malaysia	444 559	496 219	400 722	336 565	228 605	1e
Mexico	325 864	898 246	246 645	236 033	223 332	1e
New Zealand	50 424	51 369	50 569	50 000	55 000	2n
Nigeria	46 935	11 707	8 649	7 033	23 530	1e
Oman	218 600	110 300	34 100	58 300	35 350	1a
Pakistan	28 710	19 483	20 756	14 919	12 309	1e
Paraguay	6 000	6 000	6 000	6 000	6 000	2n
Peru	17 700	16 004	9 208	12 536	13 142	1e
Philippines	7 340	13 000	15 000	40 200	27 700	1e
Poland	284 650	310 850	317 190	292 940	315 040	1e
Portugal	307 982	374 029	311 677	320 655	387 223	1e
Romania	31 000	7 220	6 089	0	0	1e
Russia	1 593 000	1 485 900	1 530 800	2 478 000	2 193 800	1e
Saudi Arabia	206 000	207 461	227 000	213 000	224 000	1e
Serbia	280 276	279 000	254 000	234 000	249 000	1e
Slovakia	21 400	34 400	24 970	30 960	38 780	1e

South Africa	31 186	23 724	27 827	20 639	29 168	1e
Spain	475 074	474 462	463 617	274 137	303 743	1a
Sri Lanka	13 000	20 000	34 100	30 000	30 000	2n
Sudan	5 446	11 000	29 000	19 700	3 700	1e
Taiwan	1 665	20	500	404	30	1e
Tanzania	13 816	129 383	15 343	98 454	100 950	1e
Thailand	103 079	110 437	92 414	87 320	124 798	1e
Turkey	1 362 799	1 515 609	1 283 776	1 224 746	1 748 014	1e
Uganda	55 317	17 281	10 448	12 014	10 000	2n
Ukraine	2 379 636	2 091 525	1 843 561	1 680 891	2 317 723	1e
United Kingdom	970 000	996 000	715 000	635 000	620 000	2n
United States	5 450 000	5 350 000	5 060 000	4 570 000	4 300 000	1e
Uzbekistan	269 906	291 814	377 184	373 440	413 910	1n
Vietnam	100 000	100 000	100 000	100 000	100 000	2n
Total	45 196 053	45 412 692	44 212 825	42 633 696	43 336 444	

## Magnesite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	210 844	263 446	413 182	799 203	893 623	1e
Austria	730 482	808 239	691 909	816 370	844 226	1e
Bosnia-Herzegovina	8 500	5 950	1 400	652	196	1e
Brazil	2 303 971	1 900 000	1 530 000	1 550 000	1 800 000	2n
Canada	150 000	150 000	150 000	160 000	180 000	2n
China	18 500 000	19 000 000	19 000 000	19 000 000	18 000 000	2n
Colombia	1 913	1 039	1 847	1 077	0	1e
Cuba	0	0	1 532	3 910	3 000	1e
Finland	63 850	49 601	37 002	136 167	179 781	1a
Greece	442 680	425 882	358 841	335 943	336 000	2n
Guatemala	16 298	4 745	4 500	6 000	14 100	1e
India	195 055	146 875	102 554	74 661	113 495	1e
Iran	166 636	137 445	147 760	256 124	248 376	1a
Korea, North	172 488	100 000	100 000	100 000	100 000	2n
Mexico	101 000	101 000	800	0	0	1e
Pakistan	19 656	23 596	42 996	16 165	15 120	1e
Philippines	200	140	40	0	0	1e
Poland	101 920	102 110	91 490	65 250	65 820	1e
Russia	1 397 000	1 571 400	1 013 800	1 281 400	1 108 700	1e
Saudi Arabia	104 132	155 000	200 000	250 000	250 000	2n
Slovakia	975 100	1 053 900	1 015 800	787 476	781 600	1e
South Africa	8 700	8 500	8 500	8 500	5 000	2n
Spain	788 991	738 994	634 580	626 055	703 834	1a
Turkey	1 694 071	1 958 847	1 496 081	1 560 818	1 927 280	1e
United States	294 850	238 828	294 590	419 076	442 976	1e
Total	28 448 337	28 945 537	27 339 204	28 254 847	28 013 127	

## Perlite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Argentina	19 924	18 794	1 850	13 176	18 016	1e
Armenia	14 036	51 222	80 676	104 410	168 242	1e
Australia	275	2 285	1 264	2 185	3 821	1e
Chile	4 210	5 020	4 700	0	0	1e
Georgia	16 500	15 700	13 000	13 300	12 500	1e
Greece	932 950	790 412	718 077	821 233	975 000	1e
Hungary	40 130	44 970	43 900	44 000	44 000	2n
Iran	23 837	71 579	31 828	52 750	77 024	1a
Mexico	15 899	26 400	24 497	0	0	1e
Philippines	15 038	7 329	6 608	0	4 631	1e
Russia	45 000	45 000	45 000	45 000	45 000	2n
Slovakia	48 010	35 600	32 450	37 850	37 240	1e
South Africa	1 000	1 000	1 000	1 000	1 000	2n
Thailand	5 800	5 600	15 000	3 500	3 500	1e
Turkey	606 231	1 088 983	1 174 486	1 146 341	1 428 695	1e
United States	587 000	504 000	629 000	845 000	884 000	1e
<b>Total</b>	<b>2 375 840</b>	<b>2 713 894</b>	<b>2 823 336</b>	<b>3 129 745</b>	<b>3 702 669</b>	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	378 100	409 400	455 100	409 900	612 000	1e
Australia	216 670	195 720	165 750	215 700	170	1e
Brazil	2 083 000	1 980 300	1 828 500	1 698 100	1 765 000	2n
Chile	1 190	1 160	950	590	620	1e
China	36 939 600	28 897 800	27 997 200	26 679 960	30 869 700	1e
Christmas Island	147 890	111 780	89 010	120 750	120 290	1n
Colombia	15 870	13 240	20 480	14 210	9 470	1e
Cuba	0	0	0	460	410	1e
Egypt	1 021 960	870 870	979 620	986 000	986 000	2n
Finland	352 300	356 070	363 020	363 200	363 720	1a
India	360 220	342 890	332 940	337 800	323 750	3e
Iran	88 715	105 840	102 230	105 000	83 900	1a
Iraq	40 000	377 120	300 000	300 000	300 000	2n
Israel	1 032 900	1 100 500	898 200	988 800	777 900	1n
Jordan	2 780 030	2 567 170	2 951 470	2 860 140	3 204 880	1a
Kazakhstan	368 400	381 200	388 540	456 010	426 420	1e
Malawi	170	270	300	0	0	1e
Mexico	692 150	222 500	249 520	91 240	136 900	1e
Morocco	10 490 100	10 960 200	11 267 500	11 959 000	12 176 200	1e
Nauru	50 900	23 000	30 600	39 400	102 500	1e
Pakistan	11 100	12 340	17 320	15 790	21 640	1e
Peru	3 211 140	3 917 140	4 214 770	3 265 790	4 094 930	1e
Philippines	8 600	1 500	200	200	0	1e
Russia	5 148 000	5 304 000	5 382 000	5 382 000	5 517 800	1n
Saudi Arabia	1 701 000	1 827 000	2 275 000	2 600 000	2 730 000	2n
Senegal	841 020	775 410	855 850	684 300	792 800	1e
South Africa	727 800	720 400	639 000	461 000	767 600	1e
Sri Lanka	14 850	16 290	16 600	18 240	23 880	1e
Syria	38 700	95 000	134 000	580 000	400 000	2n
Tanzania	300	650	5 050	6 240	5 390	1e

Thailand	2 400	0	0	0	0	1e
Togo	266 260	370 810	260 320	488 900	538 860	1e
Tunisia	1 145 300	812 800	1 124 700	911 800	1 080 700	1e
Turkey	0	0	94 600	261 900	287 100	1e
United States	7 840 000	7 250 000	6 547 000	6 604 000	6 070 000	1e
Uzbekistan	170 000	144 000	137 100	150 500	150 000	2n
Venezuela	19 320	16 800	21 500	20 000	20 000	2n
Vietnam	1 376 400	1 299 660	1 346 880	606 650	598 400	3e
Zimbabwe	18 000	15 400	8 100	13 500	11 900	1e
Total	79 600 355	71 496 230	71 500 920	69 697 070	75 370 830	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Belarus	7 101 800	7 346 096	7 348 293	7 562 153	7 750 000	2e
Bolivia		1 700	17 800	4 400	32 600	1e
Brazil	306 296	201 181	248 911	254 837	213 028	1e
Canada	12 562 695	14 023 931	12 820 345	13 722 423	13 096 467	1e
Chile	1 238 630	991 180	683 540	966 680	891 450	1e
China	5 534 000	5 452 000	5 902 000	5 530 000	5 814 600	1e
Germany	2 963 561	2 754 085	2 615 284	2 874 026	2 793 326	1e
Iran	15 300	32 900	37 200	37 000	40 000	2n
Israel	2 126 700	2 149 300	2 043 500	2 415 600	2 379 000	1n
Jordan	1 415 260	1 485 960	1 516 460	1 598 200	1 563 430	1a
Laos	307 600	343 500	286 900	442 500	507 600	1e
Russia	7 300 000	7 055 000	7 368 000	8 194 200	8 890 000	1n
Spain	557 468	603 812	519 644	351 918	375 779	1a
Turkmenistan	0	15 200	11 100	16 000	19 000	2n
United Kingdom	297 400	291 100	88 480	99 260	110 460	1n
United States	480 000	520 000	510 000	460 000	480 000	1e
Uzbekistan	114 900	176 900	198 400	210 000	197 600	1e
Total	42 321 610	43 443 845	42 215 857	44 739 197	45 154 340	

## Salt

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Afghanistan	75 579	47 944	41 157	12 015	10 700	2n
Albania	25 500	31 500	30 000	30 000	30 000	2n
Algeria	165 000	106 200	100 800	95 100	100 000	2n
Angola	101 000	110 000	109 000	164 400	182 600	1e
Argentina	1 929 065	1 784 020	1 566 600	1 013 400	1 300 000	2e
Armenia	137 236	155 393	56 685	24 401	25 948	1e
Australia	12 218 780	13 493 556	12 173 391	12 212 483	12 574 025	1e
Austria	1 156 326	1 176 807	1 212 158	1 014 554	1 117 586	1e
Azerbaijan	66 968	66 699	77 116	76 401	71 495	1e
Bahamas	349 710	854 223	714 387	623 007	368 702	1e
Bangladesh	1 660 000	1 493 000	1 824 000	1 570 000	1 651 000	1e
Belarus	2 629 000	2 904 097	2 517 590	1 198 290	2 265 000	2e
Benin	500	500	500	500	500	2n
Bolivia	3 358	5 373	4 494	14 949	21 777	1e
Bosnia-Herzegovina	1 029 302	1 063 458	1 069 210	947 838	966 358	1e

Botswana	369 613	367 988	383 779	418 379	499 527	1a
Brazil	7 381 546	7 227 300	6 700 500	6 464 300	6 534 300	2e
Bulgaria	3 400 000	3 400 000	3 400 000	2 700 000	3 300 000	1a
Cambodia	33 058	30 000	18 430	83 969	68 682	1e
Canada	11 423 624	10 713 206	11 935 716	12 722 729	11 817 928	1e
Cape Verde	1 000	1 000	1 000	2 585	2 621	1a
Chile	7 440 741	10 012 105	10 476 823	9 574 159	8 565 307	1e
China	66 541 700	63 636 100	67 014 400	58 526 800	57 065 100	1e
Colombia	511 117	403 316	347 183	380 406	342 497	1e
Croatia	19 006	16 453	93 870	111 901	111 319	1e
Cuba	246 300	192 700	210 370	226 000	204 600	1e
Denmark	600 000	600 000	600 000	600 000	600 000	1e
Dominican Republic	0	23 860	26 000	24 000	20 000	2n
Egypt	532 000	522 000	493 000	500 000	500 000	2n
El Salvador	30 000	30 000	30 000	30 000	30 000	2n
Eritrea	310 000	310 000	310 000	320 000	320 000	2n
Ethiopia	60 654	122 850	125 000	125 000	125 000	2n
France	4 739 491	4 689 054	5 160 260	5 200 596	5 543 040	1e
Germany	15 535 669	16 229 929	16 627 893	14 226 154	17 668 456	1e
Ghana	250 000	330 000	300 000	330 000	300 000	2n
Greece	166 527	163 474	201 107	201 000	210 000	2n
Honduras	59 000	63 500	49 900	61 200	63 500	1e
Iceland	5 000	5 000	5 000	5 000	5 000	2n
India	28 949 400	30 033 300	28 066 000	26 553 000	26 602 000	3e
Indonesia	1 021 321	2 719 256	2 852 125	1 365 711	1 100 000	2n
Iran	2 839 430	2 453 873	2 639 192	3 200 232	3 083 719	1a
Iraq	237 350	271 500	270 000	300 000	300 000	2n
Israel	514 100	377 000	301 000	275 200	260 000	2n
Italy	2 283 406	1 514 829	1 538 072	1 192 956	1 500 458	1e
Jamaica	12 565	10 000	10 000	10 000	10 000	2n
Japan	926 000	929 000	903 000	874 000	855 000	1e
Jordan	48 985	48 901	36 850	39 088	42 359	1e
Kazakhstan	803 794	885 717	1 094 659	1 237 455	1 231 996	1e
Kenya	43 245	28 841	13 728	4 703	7 099	1e
Korea, North	500 000	500 000	500 000	500 000	500 000	2n
Korea, South	308 844	282 590	261 970	176 247	280 876	1e
Kuwait	58 250	59 300	58 600	59 000	60 000	2n
Kyrgyzstan	6 000	4 665	5 605	6 000	6 000	2n
Laos	37 490	46 863	10 079	3 951	6 846	1e
Lebanon	3 000	3 000	3 000	3 000	3 000	2n
Libya	30 000	30 000	30 000	30 000	40 000	2n
Madagascar	110 000	110 000	110 000	110 000	110 000	2n
Malta	1 600	1 600	1 600	1 600	1 600	2n
Mauritius	1 000	1 000	1 500	2 200	2 200	2n
Mexico	9 570 779	9 392 052	8 845 239	9 084 859	7 644 755	1e
Mongolia	860	997	533	2 624	1 349	1e
Morocco	659 263	691 637	854 397	490 896	295 741	1e
Mozambique	21 458	27 729	50 740	38 377	34 453	1e
Myanmar	158 499	189 146	213 319	229 755	161 774	1e
Namibia	866 586	1 151 153	983 354	987 872	1 014 873	1e
Netherlands	6 935 000	6 750 546	5 913 782	5 712 038	6 120 742	1a
New Zealand	102 000	100 000	100 000	100 000	100 000	2n
Nicaragua	50 000	50 000	55 000	55 000	55 000	2n
Norway	10 000	56 000	10 000	5 300	13 000	1e
Oman	18 035	11 537	15 003	11 700	10 142	1a
Pakistan	3 806 888	3 888 344	4 012 304	3 483 732	3 592 205	1e
Panama	18 590	17 281	27 389	24 958	23 593	1e
Peru	1 481 398	1 509 564	1 266 347	1 030 598	1 175 828	1e
Philippines	1 250 000	600 000	200 000	200 000	100 000	1e
Poland	4 660 000	4 125 000	4 063 000	3 638 000	5 369 000	1e
Portugal	122 331	100 825	112 215	97 104	94 778	1e
Romania	2 340 000	2 374 973	2 015 579	1 175 979	1 328 738	1n



Russia	7 073 000	6 710 000	8 175 000	6 026 000	8 242 000	1e
Saudi Arabia	2 520 000	2 646 000	2 778 000	2 220 000	2 331 000	1e
Senegal	265 040	245 700	286 100	290 873	280 599	1e
Serbia	8 197	7 811	13 464	6 703	6 469	1e
Slovenia	2 335	2 018	1 437	805	1 671	1e
South Africa	492 860	478 285	510 012	538 355	545 942	1e
Spain	4 135 626	4 512 243	4 330 514	3 676 039	4 202 939	1a
Sri Lanka	74 108	68 834	57 291	60 076	63 254	1e
Sudan	235 000	267 000	263 000	237 000	121 000	1e
Switzerland	448 509	530 414	477 325	324 527	512 700	1n
Syria	5 000	12 000	50 000	70 000	70 000	2n
Taiwan	77 054	78 539	76 255	77 854	77 297	1e
Tajikistan	41 323	36 964	35 324	26 637	26 169	1e
Tanzania	124 500	36 600	99 510	83 974	112 995	1e
Thailand	1 497 223	1 487 364	1 580 390	1 439 877	1 563 970	1e
Tunisia	1 403 537	2 116 972	1 966 528	1 666 075	1 889 614	1e
Turkey	6 673 242	6 298 705	6 961 015	7 698 018	7 843 502	1e
Turkmenistan	100 000	100 000	100 000	94 600	96 000	1n
Ukraine	1 815 684	2 191 619	2 092 795	2 075 000	1 900 000	1e
United Kingdom	2 361 707	3 430 266	2 377 765	2 312 100	2 320 000	2n
United States	39 900 000	43 900 000	45 000 000	43 000 000	42 000 000	2e
Venezuela	600 000	600 000	600 000	500 000	500 000	2n
Vietnam	648 500	996 500	945 000	1 134 600	1 287 200	3e
Yemen	50 000	50 000	50 000	50 000	50 000	2n
Total	282 563 282	290 534 458	292 279 225	267 753 764	273 766 013	

## Sulfur

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Algeria	6 000	6 000	6 000	6 000	6 000	2n
Armenia	8 100	10 500	10 500	11 500	14 100	1e
Australia	900 000	900 000	900 000	900 000	900 000	2n
Austria	7 691	6 980	6 768	6 564	4 755	1e
Bahrain	144 805	139 370	139 655	125 350	130 000	2n
Brazil	530 000	450 000	460 000	450 000	435 000	2n
Bulgaria	501 000	474 100	423 600	497 000	434 500	1n
Canada	5 327 000	5 333 000	4 808 913	4 904 051	4 879 000	2e
Chile	1 797 800	1 734 200	1 516 400	1 742 000	1 655 100	1e
China	13 488 700	13 762 700	14 450 000	15 340 000	15 730 000	2n
Colombia	81 172	155 641	100 203	69 638	70 000	2n
Cuba	298 600	309 000	317 000	311 200	278 900	1e
Denmark	4 004	4 194	3 554	4 140	4 090	1e
Egypt	80 000	80 000	80 000	80 000	80 000	2n
Finland	937 000	888 300	811 600	794 900	737 600	1n
France	500 000	500 000	500 000	450 000	450 000	2n
Germany	537 882	419 597	460 012	353 293	382 049	1e
Greece	210 000	280 000	260 000	210 000	250 000	2n
India	3 475 200	4 290 400	3 900 950	3 750 000	3 681 000	2n
Indonesia	500 000	500 000	500 000	500 000	500 000	2n
Iran	2 200 000	2 200 000	2 200 000	2 200 000	2 000 000	2n
Iraq	40 000	40 000	40 000	40 000	74 000	1e
Italy	846 900	809 900	1 261 100	458 700	613 100	1e
Japan	3 372 500	3 408 300	3 259 000	3 140 500	3 150 100	1n
Jordan	274 350	279 910	255 060	282 200	316 540	1e
Kazakhstan	3 789 700	3 218 250	3 834 100	3 876 400	3 993 100	1e
Korea, North	10 000	10 000	10 000	10 000	10 000	2n
Korea, South	2 000 000	2 000 000	2 000 000	2 000 000	2 000 000	1e

Kuwait	556 800	671 000	623 300	649 800	959 000	1n
Libya	133 300	133 000	130 000	130 000	130 000	2n
Lithuania	93 970	93 960	86 040	71 250	72 990	1e
Mexico	551 218	442 657	377 381	264 078	219 439	1e
Namibia	72 280	78 610	72 920	81 500	65 500	1e
Norway	100 000	120 000	100 000	100 000	100 000	2n
Oman	59 140	84 990	79 140	80 830	87 765	1e
Pakistan	23 740	22 040	20 715	19 948	19 398	1e
Peru	536 200	552 800	511 500	474 500	529 900	1e
Philippines	1 056 400	1 321 800	716 100	575 900	600 000	2n
Poland	1 321 410	1 250 400	1 210 240	1 011 080	1 058 800	1e
Qatar	2 000 000	1 767 000	2 050 000	1 650 000	2 100 000	1n
Russia	7 000 000	7 170 000	7 175 000	6 850 000	4 690 900	2n
Saudi Arabia	6 564 200	6 600 000	6 600 000	6 600 000	6 600 000	2n
South Africa	256 700	239 297	919 624	575 491	61 929	1e
Spain	633 000	662 000	663 100	584 300	687 600	1e
Sweden	390 620	416 560	347 990	339 890	344 000	2n
Taiwan	173 963	169 698	195 358	167 337	192 228	1e
Turkey	92 500	250 000	242 600	117 400	110 600	2e
Turkmenistan	200 000	480 000	330 000	470 000	590 000	2n
Ukraine	175 900	222 200	220 400	223 500	255 600	1e
United Arab Emirates	4 600 000	5 300 000	5 980 000	5 220 000	5 396 000	2e
United Kingdom	133 000	129 000	130 000	106 000	110 000	2n
United States	9 630 000	9 670 000	8 710 000	7 890 000	8 070 000	1e
Venezuela	700 000	700 000	500 000	300 000	300 000	2n
Zambia	679 500	947 800	960 200	917 300	691 900	1n
Total	79 602 245	81 705 154	81 466 023	77 983 540	76 822 483	

## Talc

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Afghanistan	389 825	356 789	345 052	95 923	441 372	1e
Argentina	15 330	13 072	10 000	2 304	1 800	1e
Australia	120 000	130 000	140 000	110 000	90 000	2n
Austria	123 558	127 866	124 184	123 000	157 493	1e
Bhutan	1 293	2 042	1 375	972	678	1e
Brazil	500 000	660 000	650 000	650 000	660 000	2n
Canada	215 000	279 000	243 000	153 293	153 000	2n
China	1 800 000	2 000 000	1 800 000	1 300 000	1 400 000	1e
Colombia	2 374	2 062	1 708	717	45	1e
Egypt	15 000	25 000	22 000	20 000	15 000	2n
Finland	354 819	374 398	329 891	278 331	296 833	1a
France	470 000	450 000	400 000	400 000	350 000	2n
Guatemala	1 982	2 187	10	3 151	2 111	1e
India	1 652 367	1 682 825	1 748 963	1 720 000	1 575 000	2n
Iran	86 514	73 259	49 650	61 665	74 537	1a
Italy	165 000	165 000	160 000	165 000	165 000	2n
Japan	365 000	160 000	160 000	160 000	160 000	2n
Korea, North	40 000	40 000	40 000	30 000	30 000	2n
Korea, South	434 292	348 648	330 250	315 446	355 104	1e
Mexico	7 129	8 448	7 202	29 122	29 000	2n
Nepal	7 096	8 658	7 813	4 931	4 450	1e
Nigeria	1 897	2 668	6 630	8 404	65 061	1e
North Macedonia	478	559	0	0	0	1e
Pakistan	152 279	141 504	158 109	150 009	289 423	1e
Peru	42 123	47 309	43 974	37 938	50 355	1e
Portugal	13 600	10 144	12 901	9 751	8 277	1e

Russia	20 000	12 500	48 000	104 000	50 000	2e
Saudi Arabia	44 000	46 000	48 000	61 000	64 000	1e
Slovakia	14 000	43 000	70 100	91 600	99 900	1e
South Africa	58 776	102 142	135 430	92 318	270 944	1e
Spain	11 500	15 500	13 100	2 920	0	1a
Sudan	4 000	4 000	2 000	0	4 500	1e
Taiwan	0	17	6	0	43	1e
Thailand	61 436	58 676	14 564	38 146	31 950	1e
Turkey	474 482	284 216	92 077	143 470	220 350	1e
United Kingdom	3 218	1 640	3 131	1 386	1 500	2n
United States	610 000	648 000	578 000	491 000	577 000	1e
Uruguay	100	420	50	520	570	1e
<b>Total</b>	<b>8 278 468</b>	<b>8 327 549</b>	<b>7 797 170</b>	<b>6 856 317</b>	<b>7 695 296</b>	

## Vermiculite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Brazil	50 050	56 708	47 581	58 821	70 500	1e
China	50 000	50 000	50 000	50 000	40 000	2n
India	6 054	2 992	2 774	1 260	3 061	1e
Kenya	0	0	100	0	400	2n
Mexico	464	244	148	104	100	2n
Russia	14 400	25 904	29 237	28 442	39 804	1e
South Africa	166 084	141 346	158 013	118 223	217 109	1e
Turkey	1 618	18 183	1 370	19 230	3 300	1e
Uganda	4 119	10 413	9 674	14 170	14 000	2n
United States	100 000	100 000	100 000	100 000	100 000	1e
Zimbabwe	23 302	33 161	25 524	26 388	27 713	1e
<b>Total</b>	<b>416 091</b>	<b>438 951</b>	<b>424 421</b>	<b>416 638</b>	<b>515 987</b>	

## Zircon

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	430 850	522 400	468 900	380 000	569 000	1e
Brazil	19 016	17 844	17 136	10 994	6 482	1e
China	116 000	150 000	140 000	140 000	140 000	2n
India	9 107	11 906	15 600	16 000	16 000	2n
Indonesia	29 500	53 700	73 100	77 200	54 630	1n
Kenya	42 217	36 387	30 440	31 730	28 933	1e
Madagascar	25 950	22 757	29 473	26 029	23 100	1e
Malaysia	1 595	509	449	157	1 518	1e
Mozambique	159 664	202 022	121 768	104 076	123 011	1e
Nigeria	4 086	1 421	1 000	242	3 033	1e
Russia	7 324	7 400	6 300	6 000	6 700	2e
Senegal	81 749	93 569	80 747	83 257	90 760	1e
Sierra Leone	3 000	11 400	8 500	4 564	4 100	1n
South Africa	361 813	303 610	320 000	311 800	301 000	2n
Sri Lanka	8 569	785	971	419	400	1e

Turkey	1 200	1 950	0	0	0	1e
Ukraine	27 239	21 614	18 000	16 000	27 000	2e
United States	45 000	100 000	30 000	30 000	30 000	2n
Vietnam	5 500	10 500	6 600	10 700	30 400	2n
Total	1 379 379	1 569 774	1 368 984	1 249 168	1 456 067	

## 6.4.5 Mineral Fuels

### Steam Coal

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Afghanistan	2 191 400	2 444 600	1 604 700	56 620	340 800	1e
Albania	138 800	297 530	95 380	151 231	242 425	1e
Argentina	37 713	81 993	154 782	24 800	25 300	1e
Australia	252 748 000	259 784 000	271 388 000	267 504 000	248 001 000	1p
Bangladesh	1 160 658	923 276	805 696	811 138	753 973	1n
Bhutan	161 527	186 824	184 785	72 838	111 545	1e
Botswana	2 215 782	2 482 313	2 110 891	1 923 992	2 021 218	1a
Brazil	3 325 439	3 568 760	3 812 975	3 171 509	4 768 003	1e
Canada	23 049 000	17 929 000	15 078 380	12 957 270	12 195 290	1p
Chile	2 495 390	2 294 677	1 606 554	191 562	18 541	1e
China	2 671 559 000	2 850 962 000	2 970 445 000	2 999 940 000	3 152 948 000	1p
Colombia	85 213 000	80 771 070	79 770 360	46 768 892	47 072 614	1e
Czech Republic	2 337 100	1 993 850	1 335 497	841 188	739 460	1n
Eswatini	202 277	144 375	109 926	161 768	162 681	1e
Georgia	268 100	137 900	15 300	99 300	147 900	1e
Germany	1 483 200	1 212 700	0	0	0	1e
India	635 252 000	687 586 000	677 938 000	671 296 000	726 488 000	1e
Indonesia	490 409 256	543 919 000	594 796 500	561 979 900	564 815 700	1p
Iran	138 000	400 000	485 000	450 000	650 000	1a
Italy	47 000	0	0	0	0	1e
Kazakhstan	90 910 400	101 085 800	98 593 000	97 924 100	102 638 200	1e
Korea, North	22 271 000	16 899 000	20 210 000	19 000 000	20 000 000	2n
Korea, South	1 485 582	1 201 920	1 084 000	1 019 000	897 900	1e
Kyrgyzstan	246 500	316 200	346 500	522 200	571 500	1e
Laos	133 284	142 994	161 494	320 231	698 521	1e
Malawi	45 230	49 753	54 728	54 876	30 251	1e
Malaysia	2 988 211	2 652 814	3 459 122	2 978 248	3 115 316	1e
Mexico	7 528 900	6 772 528	6 175 726	3 357 000	2 831 000	1p
Mongolia	6 286 990	6 914 400	6 683 100	5 394 200	4 077 410	1p
Mozambique	4 391 833	6 891 201	4 983 146	3 370 585	5 346 781	1e
Myanmar	646 900	819 715	1 325 586	1 283 428	994 617	1p
Nepal	10 237	10 049	7 184	7 250	10 714	1e
New Zealand	1 426 000	1 710 060	1 545 230	1 482 000	1 448 565	1p
Niger	233 792	221 580	225 920	246 880	105 760	1e
Nigeria	397 214	352 679	543 424	747 979	1 444 139	1e
Norway	134 433	154 200	117 000	63 000	121 000	1n
Pakistan	3 953 992	4 477 555	5 406 878	8 599 166	9 229 377	1e
Peru	301 446	218 787	181 023	131 516	146 982	1e
Philippines	11 932 000	13 055 840	15 273 525	13 267 098	14 378 268	1e
Poland	52 999 300	51 336 590	49 552 170	42 111 970	42 421 560	1e
Russia	253 700 000	271 200 000	266 700 000	241 300 000	261 646 600	1e
South Africa	253 096 500	251 607 600	254 767 800	245 053 000	225 804 400	1p
Spain	1 161 748	645 612	0	0	0	1a

Tajikistan	1 760 090	1 907 055	2 027 790	2 023 000	2 080 000	1e
Tanzania	558 553	627 652	712 136	689 959	976 319	1e
Turkey	1 875 000	2 160 520	2 695 628	2 457 720	520 270	1p
Ukraine	18 932 900	21 648 100	19 747 200	17 733 500	22 153 000	1e
United Kingdom	2 267 900	1 996 860	1 849 060	1 166 420	717 080	1e
United States	573 904 900	562 012 600	521 540 300	394 850 100	429 228 900	1e
Uzbekistan	160 000	160 000	245 168	246 800	258 100	1n
Venezuela	370 000	100 000	379 907	683 583	166 842	1p
Vietnam	38 409 000	42 384 000	47 158 000	44 598 000	48 308 000	1e
Zambia	208 608	344 717	361 648	446 153	663 345	1e
Zimbabwe	2 682 650	3 049 730	2 486 960	2 517 060	2 759 100	1e
<b>Total</b>	<b>5 531 843 735</b>	<b>5 832 247 979</b>	<b>5 958 338 079</b>	<b>5 724 048 030</b>	<b>5 967 292 267</b>	

## Coking Coal

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	190 000 000	179 350 000	189 066 000	183 764 000	170 601 000	1p
Canada	29 219 000	29 666 000	29 952 270	24 978 320	26 972 900	1p
China	516 107 000	530 440 000	538 634 000	561 254 300	572 061 400	1p
Colombia	6 078 000	5 555 700	5 398 800	5 780 420	5 817 960	1e
Czech Republic	2 532 900	2 626 361	2 309 833	1 296 137	1 734 896	1n
Germany	2 185 300	1 370 800	0	0	0	1e
India	40 148 000	41 132 000	52 936 000	44 787 000	51 702 000	1e
Indonesia	4 300 000	5 117 786	5 752 018	4 000 000	4 356 640	1p
Iran	1 383 000	1 650 000	1 600 000	3 816 000	3 650 000	1a
Kazakhstan	15 749 700	10 836 000	10 478 500	10 052 900	8 751 800	1e
Mexico	4 566 000	3 897 000	3 275 000	3 897 000	4 165 000	1p
Mongolia	25 672 000	27 073 750	28 962 970	25 821 930	19 518 500	1p
Mozambique	7 385 930	8 355 292	5 356 390	4 670 626	5 732 902	1e
New Zealand	1 173 100	1 213 400	1 200 900	1 038 970	1 134 310	1p
Poland	12 480 640	12 047 000	12 071 220	12 273 960	12 584 820	1e
Russia	85 300 000	89 800 000	93 900 000	88 200 000	99 800 000	1e
South Africa	4 028 275	4 508 302	3 722 225	2 057 020	2 730 418	1p
Turkey	764 000	692 130	698 870	617 280	716 000	1p
Ukraine	5 233 900	4 606 300	5 783 200	6 434 800	7 234 000	1e
United Kingdom	773 160	785 470	742 340	506 870	336 740	1e
United States	67 388 600	71 948 200	64 168 100	50 358 700	56 084 900	1e
Zimbabwe	245 549	297 770	242 960	233 830	486 900	1e
<b>Total</b>	<b>1 022 714 054</b>	<b>1 032 969 261</b>	<b>1 056 251 596</b>	<b>1 035 840 063</b>	<b>1 056 173 086</b>	

## Lignite

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	56 719 000	45 956 000	43 315 000	41 513 000	41 622 000	1p
Bosnia-Herzegovina	14 033 504	14 378 767	13 376 548	13 365 730	12 802 517	1e
Brazil	1 488 084	1 422 500	1 596 696	2 309 404	1 896 525	1e
Bulgaria	34 587 500	31 813 678	29 462 615	22 519 300	28 410 900	1a
Canada	9 890 000	9 900 000	8 134 855	7 349 317	8 293 554	1p
Czech Republic	39 310 000	39 187 000	37 465 000	29 505 000	29 278 000	1a
Germany	171 285 700	166 258 000	131 314 000	107 377 260	126 256 594	1e
Greece	37 802 600	36 574 360	27 383 575	13 866 637	12 081 578	1e

Hungary	7 974 130	7 898 689	6 846 837	6 125 178	4 987 686	1e
India	46 644 000	44 283 000	42 096 000	37 895 000	47 490 000	1e
Kazakhstan	5 739 000	6 560 700	5 929 100	5 422 100	4 828 700	1e
Kosovo	7 574 697	7 169 767	8 063 051	8 537 948	8 535 436	1e
Kyrgyzstan	1 628 900	2 079 000	2 259 500	1 997 500	2 418 400	1e
Laos	13 439 492	15 903 277	15 263 562	14 366 628	13 618 072	1e
Mongolia	6 783 000	7 449 000	8 053 080	6 657 650	5 309 755	1p
Montenegro	1 474 800	1 595 900	1 605 200	1 665 449	1 548 612	1a
Myanmar	90 000	485 724	785 480	760 498	589 360	1p
New Zealand	319 487	307 378	287 830	297 690	284 735	1e
North Macedonia	5 056 918	4 946 486	5 066 083	4 532 745	4 758 504	1e
Poland	61 160 660	58 570 900	50 328 580	45 983 410	52 355 510	1e
Romania	25 752 300	23 647 150	21 652 320	15 030 906	17 733 034	1e
Russia	72 200 000	78 300 000	80 800 000	72 600 000	75 200 000	1e
Serbia	39 805 959	37 648 957	38 880 520	39 673 059	36 417 513	1e
Slovakia	1 860 710	1 506 940	1 474 830	986 270	1 080 562	1e
Slovenia	3 355 664	3 216 735	3 218 696	3 259 309	2 807 476	1e
Spain	1 833 357	1 727 513	0	0	0	1a
Thailand	16 258 637	14 851 950	14 077 965	13 250 574	14 221 573	1e
Turkey	71 459 170	81 084 000	83 694 600	71 637 000	84 531 660	1p
United States	61 394 500	51 744 500	48 255 700	44 783 600	42 968 700	1e
Uzbekistan	3 878 670	4 014 400	3 807 600	3 869 375	4 781 193	1n
Total	820 800 439	800 482 271	734 494 823	637 137 537	687 108 149	

## Natural Gas

Country	2017 Mio m <sup>3</sup>	2018 Mio m <sup>3</sup>	2019 Mio m <sup>3</sup>	2020 Mio m <sup>3</sup>	2021 Mio m <sup>3</sup>	Rem
Afghanistan	156	153	146	59	153	1e
Albania	91	82	71	55	54	1e
Algeria	96 599	97 467	89 983	84 597	105 037	1e
Angola	5 800	6 490	6 800	7 550	5 886	1p
Argentina	39 740	40 930	43 220	39 570	40 940	1e
Australia	113 805	130 987	154 485	154 263	156 774	1e
Austria	1 742	969	891	743	654	1e
Azerbaijan	18 186	19 207	24 514	26 487	32 578	1e
Bahrain	15 230	15 420	17 120	17 230	17 590	1e
Bangladesh	27 450	27 430	27 230	24 990	25 170	1n
Barbados	15	14	14	11	11	1e
Belarus	205	211	218	219	229	1e
Bolivia	20 695	19 341	17 046	16 384	16 967	1e
Brazil	28 663	26 687	27 358	25 384	25 382	1e
Brunei	14 578	12 235	12 504	12 065	11 178	1e
Bulgaria	65	31	35	55	31	1a
Cameroon	390	1 460	2 010	2 130	2 090	1e
Canada	173 475	177 821	170 890	167 048	173 515	1e
Chile	1 200	1 221	1 339	1 316	1 275	1e
China	148 035	160 159	175 362	192 495	207 584	1e
Colombia	10 915	11 590	11 800	11 770	12 110	1e
Congo, Rep.	860	867	622	809	1 000	2n
Cote d'Ivoire	2 130	1 935	2 171	2 229	2 373	1e
Croatia	1 484	1 230	1 029	849	746	1e
Cuba	1 051	970	951	895	652	1e
Czech Republic	171	179	146	173	153	1a
Denmark	4 820	4 148	3 138	1 425	1 352	1e
Ecuador	463	353	318	268	269	1e
Egypt	48 810	58 560	64 940	58 465	67 799	1r
Equatorial Guinea	8 240	7 750	6 235	6 023	7 047	1e

France	16	9	16	17	22	1e
Gabon	491	511	464	502	454	1e
Georgia	9	10	10	9	16	1e
Germany	7 932	6 888	6 699	5 692	5 731	1e
Ghana	940	910	1 550	2 660	3 020	1e
Greece	8	12	9	6	4	1e
Guatemala				0	72	1e
Hungary	1 821	1 905	1 716	1 708	1 526	1e
India	31 731	32 058	30 257	27 784	33 131	1e
Indonesia	72 270	72 570	67 160	59 180	58 960	1e
Iran	213 850	224 899	232 900	249 530	256 650	1r
Iraq	10 120	10 574	10 967	7 005	9 355	1r
Ireland	3 170	3 060	2 390	1 840	1 400	1e
Israel	8 470	9 010	9 035	13 305	16 623	1e
Italy	5 538	5 443	4 852	4 117	3 343	1e
Japan	3 008	2 707	2 524	2 295	2 305	1e
Jordan	102	93	99	150	184	1a
Kazakhstan	31 587	36 350	33 100	32 810	29 400	1e
Korea, South	326	293	248	177	53	1e
Kuwait	16 892	17 925	17 516	17 522	17 400	2e
Kyrgyzstan	26	27	24	22	22	1e
Libya	14 310	13 880	14 190	17 714	15 236	1p
Malaysia	70 290	66 212	68 700	63 370	67 520	1e
Mexico	30 470	29 860	29 370	28 590	27 170	1e
Morocco	81	87	99	98	110	1e
Mozambique	5 110	5 120	4 597	4 541	4 593	1e
Myanmar	18 660	16 040	18 810	18 270	17 680	1e
Netherlands	43 103	36 911	31 517	22 813	20 438	1e
New Zealand	4 896	4 322	4 608	4 508	3 945	1e
Nigeria	47 200	48 270	49 280	49 950	48 570	1e
Norway	124 664	122 203	115 123	112 332	115 178	1e
Oman	33 172	37 660	37 460	36 110	38 400	1e
Pakistan	41 678	41 313	40 679	37 283	36 224	1e
Papua New Guinea	3 286	2 914	3 339	3 325	3 400	2n
Peru	12 942	12 721	13 429	12 030	11 375	1e
Philippines	3 922	4 270	4 409	4 013	3 429	1e
Poland	5 009	4 926	4 976	4 934	4 860	1e
Qatar	166 500	165 600	167 610	166 740	169 152	1p
Romania	10 582	10 278	9 959	8 914	8 938	1e
Russia	680 800	711 500	718 960	680 100	757 700	1o
Saudi Arabia	115 000	118 000	117 000	119 000	120 485	1e
Senegal	18	11	15	14	6	1e
Serbia	489	450	439	409	362	1e
Slovakia	90	90	80	70	71	1e
Slovenia	9	18	8	6	6	1e
South Africa	737	615	658	554	44	1e
Spain	34	90	135	47	38	1a
Syria	3 490	3 470	3 330	2 920	3 070	1n
Taiwan	266	198	167	105	110	1e
Tajikistan	2	1	1	1	1	1e
Tanzania	1 344	1 675	1 807	1 616	1 838	1e
Thailand	37 417	36 454	37 450	33 799	33 117	1e
Trinidad and Tobago	32 845	35 005	35 545	30 230	25 425	1e
Tunisia	2 094	1 950	1 780	1 850	2 240	1e
Turkey	364	436	483	458	415	1e
Turkmenistan	70 600	70 000	71 000	67 960	83 773	1e
Ukraine	20 510	20 806	20 520	20 183	19 757	1e
United Arab Emirates	59 495	58 082	57 517	55 445	56 994	1r
United Kingdom	42 100	40 827	39 386	39 433	32 568	1e
United States	774 200	871 440	959 920	948 410	977 440	1e

Uzbekistan	56 417	59 842	60 538	49 736	53 802	1e
Venezuela	38 605	31 619	25 576	21 561	23 977	1r
Vietnam	9 866	10 010	10 200	9 160	7 460	1e
Yemen	300	100	100	130	130	1p
Total	3 776 338	3 946 427	4 064 892	3 960 620	4 153 317	

## Petroleum

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Albania	958 940	910 670	1 005 090	758 170	712 000	1e
Algeria	66 667 000	65 331 000	64 330 000	57 535 000	58 200 000	1e
Angola	78 578 410	71 284 690	66 171 070	61 452 090	54 270 690	1p
Argentina	23 879 000	24 369 600	25 323 400	23 996 600	25 565 200	1e
Australia	15 335 030	16 793 630	22 464 160	22 381 790	21 782 900	1e
Austria	741 890	681 842	642 953	609 254	571 428	1e
Azerbaijan	38 688 400	38 814 300	37 501 200	34 531 900	34 580 300	1e
Bahrain	9 815 140	9 667 380	9 668 850	9 694 300	9 608 230	1e
Bangladesh	592 650	589 650	565 140	522 570	463 590	1n
Barbados	32 050	30 070	28 560	23 590	20 770	1e
Belarus	1 650 000	1 670 000	1 690 000	1 710 000	1 737 000	1e
Bolivia	2 711 300	2 534 273	2 244 260	2 065 070	2 032 870	1e
Brazil	136 052 700	134 122 000	143 933 400	151 759 400	149 154 800	1e
Brunei	5 635 870	5 553 200	6 040 240	5 479 350	5 308 680	1e
Bulgaria	21 930	20 600	20 000	20 500	20 086	1a
Cameroon	3 781 800	3 428 100	3 545 900	3 622 200	3 493 100	1e
Canada	238 267 000	258 786 900	265 045 900	253 195 200	266 190 400	1e
Chad	5 663 200	5 750 600	6 316 700	6 303 000	5 799 300	1e
Chile	177 760	160 330	161 520	102 640	109 980	1e
China	191 506 100	189 324 200	191 628 300	194 768 600	198 881 100	1e
Colombia	42 519 290	43 088 900	44 101 940	38 993 490	36 660 230	1e
Congo, D.R.	1 027 850	1 144 760	1 113 260	1 191 660	1 170 000	1e
Congo, Rep.	13 252 670	16 740 500	16 749 800	15 280 150	13 446 000	1e
Cote d'Ivoire	1 696 900	1 607 400	1 799 700	1 470 100	1 196 700	1e
Croatia	744 500	732 100	705 700	631 800	604 500	1e
Cuba	2 522 200	2 462 500	2 371 450	2 320 200	2 200 000	2n
Czech Republic	106 000	109 000	81 000	91 000	83 000	1a
Denmark	6 736 967	5 665 787	5 017 234	3 556 000	3 277 800	1e
Ecuador	26 452 000	25 754 000	26 442 000	23 932 000	23 543 000	1e
Egypt	32 178 000	32 844 000	31 812 000	31 066 370	29 601 360	1r
Equatorial Guinea	8 666 670	7 826 120	7 150 650	7 154 660	5 919 365	1e
France	758 000	774 100	719 800	644 700	647 830	1e
Gabon	10 503 000	9 646 000	10 848 000	10 766 000	10 040 000	1e
Georgia	32 000	30 200	35 100	31 300	35 500	1e
Germany	2 218 406	2 066 643	1 923 232	1 895 942	1 805 932	1e
Ghana	8 379 700	8 876 500	10 205 700	9 561 000	7 864 300	1e
Greece	139 551	201 786	164 905	89 715	58 750	1e
Guatemala	480 000	458 800	478 200	389 000	355 500	1e
Guyana		0	58 280	3 709 780	5 820 870	1e
Hungary	1 039 000	1 103 000	1 160 000	1 030 000	1 087 000	1e
India	35 684 330	34 203 270	32 169 270	30 494 090	29 688 480	1e
Indonesia	39 879 800	38 434 800	37 104 200	35 367 913	32 786 100	1e
Iran	231 945 670	219 246 080	158 327 680	143 249 750	167 658 090	1r
Iraq	222 381 850	227 012 450	234 220 100	202 037 850	200 829 370	1r
Israel	64 308	73 933	84 020	130 427	164 765	1e
Italy	4 138 000	4 684 200	4 279 000	5 383 940	4 922 000	1e
Japan	505 400	449 000	470 200	461 000	441 200	1e
Jordan	300	1 000	1 600	2 500	14 300	1a



Kazakhstan	86 194 400	90 359 500	90 555 500	85 656 100	85 877 800	1e
Kenya		0	32 400	41 000	0	1e
Korea, South	29 610	25 730	21 130	13 990	4 800	1e
Kuwait	134 633 070	136 244 500	133 309 720	121 347 440	120 264 800	1e
Kyrgyzstan	173 200	200 000	233 100	239 200	275 600	1e
Libya	43 757 120	47 110 900	54 317 500	19 388 800	60 113 100	1e
Lithuania	55 830	46 030	39 570	31 630	28 920	1e
Malaysia	32 887 600	32 509 900	30 384 800	27 679 100	25 467 600	1e
Mauritania	165 600	0	0	0	0	1e
Mexico	109 084 360	101 605 440	94 161 830	93 860 550	94 785 920	1e
Moldova	5 000	5 100	5 032	5 032	4 972	1e
Mongolia	1 039 900	871 500	937 900	560 000	636 600	1a
Morocco	4 640	4 840	4 335	4 098	3 246	1e
Mozambique	55 790	51 810	41 250	38 350	36 330	1e
Myanmar	573 400	480 500	429 000	572 200	309 800	1e
Netherlands	1 222 000	1 129 300	892 600	862 200	861 100	1e
New Zealand	1 400 390	1 086 450	1 128 870	964 420	840 780	1e
Niger	909 200	827 300	903 400	855 500	873 100	1e
Nigeria	94 081 000	95 675 000	100 287 000	91 504 570	80 639 590	1e
Norway	89 849 500	84 275 900	79 388 000	93 492 500	95 254 000	1e
Oman	48 308 200	48 710 000	48 339 100	47 374 500	48 353 500	1e
Pakistan	4 329 141	4 441 610	4 433 150	3 832 330	3 760 980	1e
Papua New Guinea	2 656 600	1 898 700	1 889 900	1 960 100	1 842 600	1n
Peru	6 688 300	6 688 500	6 956 200	6 221 400	5 949 800	1e
Philippines	750 200	728 300	652 300	572 100	486 800	1e
Poland	939 240	937 040	936 760	911 430	858 030	1e
Qatar	77 488 690	79 223 750	76 220 160	74 399 870	75 847 230	1p
Romania	3 635 000	3 577 000	3 568 000	3 457 000	3 319 000	1e
Russia	546 742 200	555 833 900	560 256 690	512 761 000	524 050 000	1e
Saudi Arabia	559 319 390	576 817 650	556 564 010	519 613 000	515 878 200	1e
Senegal	12 960	20 300	28 500	25 280	20 000	2n
Serbia	924 351	910 712	881 000	859 226	835 319	1e
Slovakia	8 160	7 522	6 331	3 790	6 130	1e
Slovenia	481	769	490	385	296	1e
South Africa	31 145	23 770	29 774	31 974	15 633	1e
South Sudan	7 250 770	7 107 700	8 448 490	8 126 230	7 515 700	1r
Spain	118 809	89 476	40 244	26 819	5 785	1a
Sudan	4 119 300	3 560 000	3 778 300	2 932 600	2 605 000	1e
Suriname	811 600	818 400	825 200	818 400	818 400	1e
Syria	1 078 300	1 051 030	1 510 590	1 964 180	4 598 420	1r
Taiwan	4 600	4 000	3 300	1 860	2 110	1e
Tajikistan	23 482	23 939	23 293	24 400	24 635	1e
Thailand	11 939 770	11 361 670	11 362 210	10 077 510	8 820 540	1e
Trinidad and Tobago	4 655 220	4 122 240	3 869 080	3 600 510	3 652 900	1e
Tunisia	2 065 930	2 027 230	1 859 060	1 726 250	2 129 640	1e
Turkey	2 551 929	2 850 828	2 984 800	3 202 924	3 441 659	1e
Turkmenistan	10 950 000	10 640 000	10 420 000	9 490 000	10 961 000	1e
Ukraine	2 169 900	2 293 300	2 453 600	2 430 800	2 455 400	1e
United Arab Emirates	176 224 330	176 686 680	180 544 180	166 582 740	164 380 590	1r
United Kingdom	47 049 300	51 550 700	52 856 200	49 361 500	41 159 050	1e
United States	620 326 500	723 628 600	809 996 700	776 750 100	781 654 600	1e
Uzbekistan	2 766 600	2 890 915	2 816 300	2 160 400	2 098 400	1e
Venezuela	114 095 200	83 843 240	52 057 000	32 701 700	33 408 500	1r
Vietnam	13 557 000	11 989 000	11 043 000	9 650 000	9 100 000	1e
Yemen	2 626 100	3 853 400	3 967 300	3 588 000	3 544 750	1p
Total	4 387 148 840	4 487 781 435	4 486 614 813	4 195 820 549	4 250 303 021	

## Oil Sands (part of Petroleum)

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Canada	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400	1e
Venezuela	25 000 000	20 000 000	18 000 000	14 900 000	15 000 000	2n
Total	169 006 100	176 864 600	176 766 200	167 943 300	182 022 400	

## Oil Shales

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Austria	170	150	100	100	100	2n
Bulgaria		0	39 000	44 000	56 000	1e
Estonia	21 625 000	21 883 000	15 697 400	12 144 400	11 743 000	1e
France	2 000	2 000	2 000	2 000	2 000	2n
Germany	481 803	494 650	487 012	471 404	442 886	1e
Israel	426 000	414 580	402 882	392 990	430 840	1e
Total	22 534 973	22 794 380	16 628 394	13 054 894	12 674 826	

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

Country	2017 metr. t	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	Rem
Australia	6 736	7 737	7 726	7 273	4 474	1e
Brazil	0	0	0	20	34	1e
Canada	14 394	8 225	8 230	4 260	5 443	1e
China	2 223	2 223	2 223	2 223	2 223	2d
Czech Republic	66	40	39	34	32	1a
Germany	40	0	28	8	0	1e
India	496	499	363	472	725	2d
Kazakhstan	27 500	25 595	26 895	22 967	25 729	1e
Mongolia		0	0	1	4	1e
Namibia	4 981	6 514	6 459	6 382	6 784	1e
Niger	4 066	3 433	3 516	3 527	2 691	1e
Pakistan	53	53	53	53	53	2d
Russia	3 440	3 424	3 433	3 356	3 107	1e
South Africa	304	231	163	131	153	1e
Ukraine	986	1 390	944	877	536	1e
United States	1 108	657	79	7	9	1e
Uzbekistan	4 009	4 062	4 127	4 127	4 158	1e
Total	70 402	64 083	64 278	55 718	56 155	



## 6.5 Share of World Mineral Production 2021, by Countries

### 6.5.1 Iron and Ferro-Alloy Metals

#### Iron (Fe-Content)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	571 113 897	34.93	34.93	1 220.06
2	( 2)	Brazil	273 330 125	16.72	51.65	279.45
3	( 3)	China	254 900 000	15.59	67.24	243.04
4	( 4)	India	156 451 900	9.57	76.80	91.56
5	( 5)	Russia	59 375 800	3.63	80.44	13.19
6	( 6)	Ukraine	52 431 000	3.21	83.64	10.28
7	( 7)	South Africa	47 509 000	2.91	86.55	8.44
8	( 8)	Canada	35 070 000	2.14	88.69	4.60
9	( 9)	Iran	34 980 000	2.14	90.83	4.58
10	(10)	United States	30 100 000	1.84	92.67	3.39
11	(11)	Sweden	19 964 200	1.22	93.89	1.49
12	(12)	Kazakhstan	15 966 300	0.98	94.87	0.95
13	(16)	Peru	12 149 274	0.74	95.61	0.55
14	(15)	Chile	11 163 294	0.68	96.30	0.47
15	(14)	Mexico	10 800 000	0.66	96.96	0.44
16	(13)	Turkey	9 791 300	0.60	97.56	0.36
17	(17)	Mauritania	8 201 700	0.50	98.06	0.25
18	(18)	Mongolia	5 136 260	0.31	98.37	0.10
19	(20)	Indonesia	3 300 000	0.20	98.57	0.04
20	(19)	Malaysia	3 070 930	0.19	98.76	0.04
21	(21)	Liberia	3 000 000	0.18	98.94	0.03
22	(22)	New Zealand	2 200 000	0.13	99.08	0.02
23	(23)	Vietnam	2 190 900	0.13	99.21	0.02
24	(29)	Laos	2 113 560	0.13	99.34	0.02
25	(24)	Korea, North	1 600 000	0.10	99.44	0.01
26	(25)	Venezuela	1 462 500	0.09	99.53	0.01
27	(30)	Guinea	1 139 200	0.07	99.60	0.00
28	(27)	Austria	1 059 550	0.06	99.66	0.00
29	(26)	Norway	1 057 500	0.06	99.73	0.00
30	(**)	Sierra Leone	950 300	0.06	99.79	0.00
31	(28)	Bosnia-Herzegovina	792 500	0.05	99.84	0.00
32	(31)	Algeria	416 000	0.03	99.86	0.00
33	(32)	Colombia	337 450	0.02	99.88	0.00
34	(33)	Korea, South	323 140	0.02	99.90	0.00
35	(36)	Pakistan	306 160	0.02	99.92	0.00
36	(34)	Saudi Arabia	288 700	0.02	99.94	0.00
37	(35)	Egypt	270 000	0.02	99.95	0.00
38	(39)	Thailand	201 450	0.01	99.97	0.00
39	(38)	Tunisia	143 900	0.01	99.98	0.00
40	(37)	Germany	87 500	0.01	99.98	0.00
41	(42)	Namibia	51 490	0.00	99.98	0.00
42	(40)	Fiji	49 400	0.00	99.99	0.00

43	(43)	Philippines	46 500	0.00	99.99	0.00
44	(45)	Tanzania	39 100	0.00	99.99	0.00
45	(**)	Angola	37 610	0.00	99.99	0.00
46	(**)	Spain	36 580	0.00	100.00	0.00
47	(44)	Bolivia	17 010	0.00	100.00	0.00
48	(47)	Bhutan	16 590	0.00	100.00	0.00
49	(46)	Morocco	8 870	0.00	100.00	0.00
50	(50)	Uruguay	3 310	0.00	100.00	0.00
51	(48)	Malawi	2 990	0.00	100.00	0.00
52	(49)	Nigeria	1 300	0.00	100.00	0.00
Total			1 635 056 040	100.00		HHI 1 883

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	7 605 500	51.82	51.82	2 685.52
2	( 2)	Kazakhstan	1 901 500	12.96	64.78	167.87
3	( 3)	India	1 698 900	11.58	76.35	134.00
4	( 4)	Turkey	1 227 900	8.37	84.72	70.00
5	( 5)	Zimbabwe	644 400	4.39	89.11	19.28
6	( 6)	Finland	472 890	3.22	92.33	10.38
7	( 7)	Brazil	248 108	1.69	94.02	2.86
8	( 8)	Albania	225 200	1.53	95.56	2.35
9	(10)	Oman	195 540	1.33	96.89	1.78
10	( 9)	Russia	167 360	1.14	98.03	1.30
11	(11)	Iran	85 620	0.58	98.61	0.34
12	(12)	China	67 620	0.46	99.08	0.21
13	(14)	Pakistan	56 050	0.38	99.46	0.15
14	(13)	Papua New Guinea	43 430	0.30	99.75	0.09
15	(15)	Philippines	12 290	0.08	99.84	0.01
16	(16)	Cuba	8 500	0.06	99.90	0.00
17	(17)	Madagascar	5 900	0.04	99.94	0.00
18	(19)	Afghanistan	5 300	0.04	99.97	0.00
19	(18)	Sudan	2 700	0.02	99.99	0.00
20	(20)	Greece	800	0.01	100.00	0.00
21	(21)	Ethiopia	700	0.00	100.00	0.00
Total			14 676 208	100.00		HHI 3 096

### Cobalt

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Congo, D.R.	93 011	69.17	69.17	4 783.87
2	( 2)	Russia	8 100	6.02	75.19	36.28
3	( 3)	Australia	5 228	3.89	79.08	15.11
4	( 4)	Canada	3 834	2.85	81.93	8.13
5	( 5)	Cuba	3 800	2.83	84.75	7.99
6	( 6)	Philippines	3 200	2.38	87.13	5.66
7	( 7)	Papua New Guinea	2 955	2.20	89.33	4.83
8	(18)	Turkey	2 400	1.78	91.12	3.19

9	(12)	Indonesia	2 100	1.56	92.68	2.44
10	( 9)	China	2 000	1.49	94.16	2.21
11	(15)	Madagascar	1 986	1.48	95.64	2.18
12	( 8)	Morocco	1 796	1.34	96.98	1.78
13	(10)	New Caledonia	1 500	1.12	98.09	1.24
14	(11)	Finland	1 084	0.81	98.90	0.65
15	(16)	United States	650	0.48	99.38	0.23
16	(14)	South Africa	355	0.26	99.65	0.07
17	(17)	Zambia	247	0.18	99.83	0.03
18	(13)	Zimbabwe	230	0.17	100.00	0.03
		Total	134 476	100.00		4 876

## Manganese

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	7 098 396	33.45	33.45	1 119.07
2	( 2)	Gabon	4 240 100	19.98	53.43	399.29
3	( 3)	Australia	3 278 840	15.45	68.89	238.77
4	( 4)	China	1 300 000	6.13	75.01	37.53
5	( 8)	Ghana	934 200	4.40	79.42	19.38
6	( 6)	India	841 600	3.97	83.38	15.73
7	( 7)	Ukraine	652 300	3.07	86.46	9.45
8	( 5)	Brazil	597 446	2.82	89.27	7.93
9	( 9)	Cote d'Ivoire	580 000	2.73	92.01	7.47
10	(10)	Malaysia	280 790	1.32	93.33	1.75
11	(14)	Kazakhstan	252 300	1.19	94.52	1.41
12	(11)	Mexico	220 560	1.04	95.56	1.08
13	(13)	Georgia	217 900	1.03	96.58	1.05
14	(12)	Myanmar	206 100	0.97	97.56	0.94
15	(15)	Vietnam	147 000	0.69	98.25	0.48
16	(16)	Iran	93 940	0.44	98.69	0.20
17	(21)	Zambia	56 860	0.27	98.96	0.07
18	(17)	Morocco	41 250	0.19	99.15	0.04
19	(20)	Indonesia	40 000	0.19	99.34	0.04
20	(18)	Turkey	30 300	0.14	99.48	0.02
21	(22)	Kenya	28 500	0.13	99.62	0.02
22	(27)	Nigeria	22 380	0.11	99.72	0.01
23	(19)	Russia	10 700	0.05	99.77	0.00
24	(23)	Namibia	10 250	0.05	99.82	0.00
25	(24)	Peru	9 073	0.04	99.87	0.00
26	(28)	Egypt	8 000	0.04	99.90	0.00
27	(25)	Romania	6 600	0.03	99.93	0.00
28	(29)	Bolivia	5 100	0.02	99.96	0.00
29	(26)	Senegal	4 040	0.02	99.98	0.00
30	(30)	Oman	3 760	0.02	100.00	0.00
31	(31)	Congo, D.R.	1 000	0.00	100.00	0.00
32	(33)	Pakistan	50	0.00	100.00	0.00
		Total	21 219 335	100.00		HHI 1 862

## Molybdenum

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	102 600	38.32	38.32	1 468.66
2	( 2)	Chile	49 427	18.46	56.78	340.84
3	( 3)	United States	41 100	15.35	72.14	235.67
4	( 4)	Peru	34 148	12.75	84.89	162.69
5	( 5)	Mexico	16 319	6.10	90.99	37.15
6	( 6)	Armenia	10 611	3.96	94.95	15.71
7	( 8)	Iran	4 150	1.55	96.50	2.40
8	( 9)	Mongolia	2 975	1.11	97.61	1.23
9	( 7)	Canada	2 023	0.76	98.37	0.57
10	(10)	Russia	1 700	0.63	99.00	0.40
11	(11)	Uzbekistan	1 282	0.48	99.48	0.23
12	(13)	Kazakhstan	880	0.33	99.81	0.11
13	(12)	Korea, South	408	0.15	99.96	0.02
14	(14)	Korea, North	100	0.04	100.00	0.00
15	(15)	Norway	1	0.00	100.00	0.00
		Total	267 724	100.00		HHI 2 266

## Nickel

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Indonesia	1 173 200	41.72	41.72	1 740.35
2	( 2)	Philippines	386 359	13.74	55.46	188.74
3	( 3)	Russia	192 000	6.83	62.28	46.61
4	( 4)	New Caledonia	186 284	6.62	68.91	43.88
5	( 5)	Australia	150 876	5.36	74.27	28.78
6	( 6)	Canada	133 581	4.75	79.02	22.56
7	( 7)	China	104 600	3.72	82.74	13.83
8	( 8)	Brazil	75 988	2.70	85.44	7.30
9	( 9)	Guatemala	59 100	2.10	87.55	4.42
10	(10)	Cuba	45 000	1.60	89.15	2.56
11	(11)	Finland	42 163	1.50	90.64	2.25
12	(12)	Colombia	38 301	1.36	92.01	1.85
13	(13)	South Africa	31 846	1.13	93.14	1.28
14	(14)	Papua New Guinea	31 594	1.12	94.26	1.26
15	(15)	Dominican Republic	27 819	0.99	95.25	0.98
16	(21)	Madagascar	27 710	0.99	96.24	0.97
17	(17)	Cote d'Ivoire	22 500	0.80	97.04	0.64
18	(19)	United States	18 400	0.65	97.69	0.43
19	(16)	Myanmar	18 100	0.64	98.33	0.41
20	(20)	Zimbabwe	16 213	0.58	98.91	0.33
21	(18)	Turkey	11 650	0.41	99.33	0.17
22	(22)	Greece	5 370	0.19	99.52	0.04
23	(23)	Kosovo	4 960	0.18	99.69	0.03

24	(24)	Albania	3 720	0.13	99.83	0.02
25	(25)	Zambia	3 680	0.13	99.96	0.02
26	(26)	Poland	740	0.03	99.98	0.00
27	(28)	Norway	350	0.01	99.99	0.00
28	(27)	Morocco	147	0.01	100.00	0.00
Total			2 812 251	100.00		HHI 2 110

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Brazil	112 755	92.50	92.50	8 555.59
2	( 2)	Canada	7 650	6.28	98.77	39.38
3	( 3)	Russia	648	0.53	99.30	0.28
4	( 4)	Congo, D.R.	475	0.39	99.69	0.15
5	( 5)	Rwanda	160	0.13	99.82	0.02
6	( 6)	Nigeria	140	0.11	99.94	0.01
7	( 8)	China	30	0.02	99.96	0.00
8	(10)	Ethiopia	18	0.01	99.98	0.00
9	( 9)	Mozambique	14	0.01	99.99	0.00
10	(11)	Burundi	10	0.01	100.00	0.00
11	( 7)	Uganda	2	0.00	100.00	0.00
Total			121 902	100.00		HHI 8 595

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Congo, D.R.	505	28.69	28.69	823.30
2	( 2)	Brazil	350	19.89	48.58	395.47
3	( 3)	Rwanda	245	13.92	62.50	193.78
4	( 4)	China	180	10.23	72.73	104.60
5	( 6)	Nigeria	160	9.09	81.82	82.64
6	( 5)	Mozambique	75	4.26	86.08	18.16
7	( 8)	Australia	70	3.98	90.06	15.82
8	( 9)	Ethiopia	64	3.64	93.69	13.22
9	( 7)	Russia	39	2.22	95.91	4.91
10	(10)	Sierra Leone	36	2.05	97.95	4.18
11	(11)	Spain	19	1.08	99.03	1.17
12	(13)	Burundi	15	0.85	99.89	0.73
13	(12)	Bolivia	1	0.06	99.94	0.00
14	(14)	Malaysia	1	0.06	100.00	0.00
Total			1 760	100.00		HHI 1 658



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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 856 650	33.63	33.63	1 131.26
2	( 3)	Mozambique	1 126 800	13.27	46.90	176.01
3	( 2)	South Africa	900 000	10.60	57.50	112.29
4	( 4)	Australia	624 100	7.35	64.85	54.00
5	( 5)	Ukraine	489 200	5.76	70.61	33.18
6	( 6)	Canada	440 000	5.18	75.79	26.84
7	( 8)	Madagascar	324 800	3.82	79.61	14.62
8	( 7)	Senegal	310 310	3.65	83.26	13.35
9	(10)	Norway	295 610	3.48	86.74	12.11
10	( 9)	Kenya	254 210	2.99	89.74	8.96
11	(12)	Korea, South	177 420	2.09	91.83	4.36
12	(11)	India	176 000	2.07	93.90	4.29
13	(14)	Sierra Leone	135 400	1.59	95.49	2.54
14	(13)	Vietnam	127 070	1.50	96.99	2.24
15	(15)	United States	100 000	1.18	98.17	1.39
16	(16)	Brazil	75 100	0.88	99.05	0.78
17	(18)	Sri Lanka	28 775	0.34	99.39	0.11
18	(17)	Kazakhstan	20 000	0.24	99.63	0.06
19	(20)	Malaysia	13 470	0.16	99.78	0.03
20	(19)	Turkey	7 080	0.08	99.87	0.01
21	(21)	Iran	6 860	0.08	99.95	0.01
22	(22)	Russia	4 400	0.05	100.00	0.00
23	(23)	Thailand	36	0.00	100.00	0.00
		Total	8 493 291	100.00		HHI 1 598

## Tungsten (W-Content)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	68 660	77.55	77.55	6 013.92
2	( 2)	Vietnam	11 735	13.25	90.80	175.68
3	( 3)	Russia	1 900	2.15	92.95	4.61
4	( 4)	Bolivia	1 563	1.77	94.72	3.12
5	( 5)	Rwanda	1 545	1.75	96.46	3.05
6	( 6)	Austria	919	1.04	97.50	1.08
7	(10)	Spain	642	0.73	98.22	0.53
8	( 7)	Portugal	542	0.61	98.84	0.37
9	( 9)	Brazil	301	0.34	99.18	0.12
10	(13)	Australia	160	0.18	99.36	0.03
11	(11)	Burundi	120	0.14	99.49	0.02
12	(16)	Mongolia	120	0.14	99.63	0.02
13	(12)	Congo, D.R.	114	0.13	99.76	0.02
14	(15)	Thailand	58	0.07	99.82	0.00
15	( 8)	Korea, North	50	0.06	99.88	0.00
16	(14)	Myanmar	40	0.05	99.92	0.00

17	(19)	Uzbekistan	25	0.03	99.95	0.00
18	(20)	Nigeria	24	0.03	99.98	0.00
19	(**)	Uganda	11	0.01	99.99	0.00
20	(18)	Zimbabwe	8	0.01	100.00	0.00
Total			88 537	100.00		HHI 6 203

## Vanadium (V-Content)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	63 800	63.82	63.82	4 072.96
2	( 2)	Russia	20 058	20.06	83.88	402.57
3	( 3)	South Africa	8 799	8.80	92.69	77.47
4	( 4)	Brazil	7 212	7.21	99.90	52.05
5	( 5)	India	100	0.10	100.00	0.01
Total			99 969	100.00		HHI 4 605

## 6.5.2 Non-Ferrous Metals

### Aluminium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	38 503 200	56.90	56.90	3 237.55
2	( 3)	India	4 012 000	5.93	62.83	35.15
3	( 2)	Russia	3 931 000	5.81	68.64	33.75
4	( 4)	Canada	3 136 704	4.64	73.27	21.49
5	( 5)	United Arab Emirates	2 577 680	3.81	77.08	14.51
6	( 7)	Bahrain	1 561 222	2.31	79.39	5.32
7	( 6)	Australia	1 558 529	2.30	81.69	5.30
8	( 8)	Norway	1 431 000	2.11	83.81	4.47
9	(11)	Saudi Arabia	998 915	1.48	85.28	2.18
10	( 9)	United States	907 846	1.34	86.62	1.80
11	(10)	Malaysia	901 000	1.33	87.96	1.77
12	(14)	Brazil	771 700	1.14	89.10	1.30
13	(12)	South Africa	714 000	1.06	90.15	1.11
14	(13)	Iceland	695 857	1.03	91.18	1.06
15	(15)	Qatar	634 270	0.94	92.12	0.88
16	(16)	Mozambique	564 756	0.83	92.95	0.70
17	(18)	Iran	543 715	0.80	93.76	0.65
18	(17)	Germany	509 193	0.75	94.51	0.57
19	(19)	France	430 000	0.64	95.14	0.40
20	(20)	Oman	395 360	0.58	95.73	0.34
21	(22)	Argentina	338 239	0.50	96.23	0.25
22	(21)	New Zealand	333 135	0.49	96.72	0.24
23	(23)	Romania	293 399	0.43	97.15	0.19
24	(24)	Egypt	270 000	0.40	97.55	0.16
25	(25)	Kazakhstan	262 361	0.39	97.94	0.15

26	(26)	Indonesia	200 577	0.30	98.24	0.09
27	(27)	Spain	190 000	0.28	98.52	0.08
28	(28)	Greece	169 775	0.25	98.77	0.06
29	(29)	Slovakia	163 995	0.24	99.01	0.06
30	(30)	Sweden	124 000	0.18	99.19	0.03
31	(**)	Bosnia-Herzegovina	90 037	0.13	99.33	0.02
32	(32)	Turkey	82 000	0.12	99.45	0.01
33	(31)	Tajikistan	61 000	0.09	99.54	0.01
34	(33)	Netherlands	46 700	0.07	99.61	0.00
35	(37)	Montenegro	45 214	0.07	99.67	0.00
36	(36)	Ghana	39 239	0.06	99.73	0.00
37	(40)	Venezuela	38 340	0.06	99.79	0.00
38	(34)	Slovenia	37 867	0.06	99.84	0.00
39	(38)	United Kingdom	37 600	0.06	99.90	0.00
40	(35)	Cameroon	36 400	0.05	99.95	0.00
41	(39)	Azerbaijan	31 000	0.05	100.00	0.00
		Total	67 668 825	100.00		HHI 3 372

## Antimony

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	41 480	44.13	44.13	1 947.37
2	( 2)	Tajikistan	26 150	27.82	71.95	773.95
3	( 3)	Russia	9 750	10.37	82.32	107.59
4	( 7)	Turkey	4 210	4.48	86.80	20.06
5	( 5)	Australia	3 380	3.60	90.40	12.93
6	( 6)	Bolivia	3 084	3.28	93.68	10.76
7	( 4)	Myanmar	2 870	3.05	96.73	9.32
8	( 8)	Iran	1 960	2.09	98.82	4.35
9	(10)	Mexico	413	0.44	99.26	0.19
10	( 9)	Vietnam	305	0.32	99.58	0.11
11	(**)	Laos	240	0.26	99.84	0.07
12	(14)	Honduras	120	0.13	99.96	0.02
13	(13)	Pakistan	33	0.04	100.00	0.00
14	(15)	Canada	2	0.00	100.00	0.00
		Total	93 997	100.00		HHI 2 887

## Arsenic

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	24 000	43.72	43.72	1 911.42
2	( 2)	Peru	21 872	39.84	83.56	1 587.49
3	( 3)	Morocco	6 883	12.54	96.10	157.21
4	( 5)	Russia	1 000	1.82	97.92	3.32
5	( 4)	Belgium	1 000	1.82	99.74	3.32
6	( 6)	Bolivia	100	0.18	99.93	0.03
7	( 7)	Japan	40	0.07	100.00	0.01
		Total	54 895	100.00		HHI 3 663

## Bauxite (crude ore)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	103 266 404	27.19	27.19	739.08
2	( 2)	Guinea	87 438 557	23.02	50.21	529.88
3	( 3)	China	68 400 000	18.01	68.21	324.25
4	( 4)	Brazil	35 949 600	9.46	77.68	89.57
5	( 5)	Indonesia	25 781 187	6.79	84.46	46.07
6	( 6)	India	22 493 947	5.92	90.39	35.07
7	( 8)	Russia	6 565 000	1.73	92.11	2.99
8	( 7)	Jamaica	5 949 600	1.57	93.68	2.45
9	( 9)	Saudi Arabia	5 488 000	1.44	95.12	2.09
10	(10)	Kazakhstan	4 370 100	1.15	96.28	1.32
11	(11)	Vietnam	4 100 000	1.08	97.35	1.17
12	(12)	Turkey	2 764 873	0.73	98.08	0.53
13	(14)	Sierra Leone	1 396 678	0.37	98.45	0.14
14	(13)	Greece	1 227 498	0.32	98.77	0.10
15	(16)	Iran	883 950	0.23	99.01	0.05
16	(15)	Ghana	839 465	0.22	99.23	0.05
17	(22)	Cote d'Ivoire	700 000	0.18	99.41	0.03
18	(19)	Bosnia-Herzegovina	675 269	0.18	99.59	0.03
19	(20)	Guyana	618 552	0.16	99.75	0.03
20	(18)	Montenegro	526 760	0.14	99.89	0.02
21	(23)	France	142 764	0.04	99.93	0.00
22	(24)	Pakistan	97 495	0.03	99.95	0.00
23	(28)	Dominican Republic	80 058	0.02	99.97	0.00
24	(21)	Malaysia	47 577	0.01	99.99	0.00
25	(**)	Venezuela	22 000	0.01	99.99	0.00
26	(26)	Croatia	14 448	0.00	100.00	0.00
27	(29)	Mozambique	7 852	0.00	100.00	0.00
28	(27)	Colombia	3 200	0.00	100.00	0.00
29	(30)	Tanzania	38	0.00	100.00	0.00
		Total	379 850 872	100.00		HHI 1 775

## Beryllium (concentrates)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	4 380	65.22	65.22	4 253.31
2	( 2)	China	1 750	26.06	91.27	678.98
3	( 4)	Mozambique	330	4.91	96.19	24.14
4	( 3)	Uganda	190	2.83	99.02	8.00
5	( 5)	Madagascar	30	0.45	99.46	0.20
6	( 6)	Rwanda	20	0.30	99.76	0.09
7	( 7)	Brazil	10	0.15	99.91	0.02
8	( 8)	Zambia	6	0.09	100.00	0.01
		Total	6 716	100.00		HHI 4 965

## Bismuth

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	8 000	71.79	71.79	5 154.37
2	( 2)	Vietnam	2 067	18.55	90.34	344.09
3	( 3)	Japan	500	4.49	94.83	20.13
4	( 4)	Kazakhstan	250	2.24	97.07	5.03
5	( 5)	Peru	248	2.23	99.30	4.95
6	( 7)	Russia	45	0.40	99.70	0.16
7	( 6)	Bolivia	27	0.24	99.95	0.06
8	( 8)	Canada	4	0.04	99.98	0.00
9	( 9)	Uzbekistan	2	0.02	100.00	0.00
		<b>Total</b>	<b>11 143</b>	<b>100.00</b>		<b>HHI 5 529</b>

## Cadmium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	10 000	40.37	40.37	1 629.85
2	( 2)	Korea, South	4 000	16.15	56.52	260.78
3	( 3)	Japan	1 900	7.67	64.19	58.84
4	( 4)	Canada	1 800	7.27	71.46	52.81
5	( 5)	Kazakhstan	1 500	6.06	77.51	36.67
6	( 7)	Mexico	1 051	4.24	81.76	18.00
7	( 6)	Russia	1 000	4.04	85.79	16.30
8	( 8)	Netherlands	854	3.45	89.24	11.89
9	(11)	Uzbekistan	470	1.90	91.14	3.60
10	( 9)	Germany	450	1.82	92.96	3.30
11	(12)	Norway	390	1.57	94.53	2.48
12	(13)	Bulgaria	343	1.38	95.91	1.92
13	(17)	Poland	292	1.18	97.09	1.39
14	(10)	Peru	279	1.13	98.22	1.27
15	(14)	United States	241	0.97	99.19	0.95
16	(15)	Korea, North	150	0.61	99.80	0.37
17	(16)	Brazil	50	0.20	100.00	0.04
		<b>Total</b>	<b>24 770</b>	<b>100.00</b>		<b>HHI 2 100</b>

## Copper

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Chile	5 624 900	26.27	26.27	689.89
2	( 2)	Peru	2 299 277	10.74	37.00	115.27
3	( 4)	Congo, D.R.	1 924 374	8.99	45.99	80.75
4	( 3)	China	1 901 000	8.88	54.87	78.80
5	( 5)	United States	1 230 000	5.74	60.61	32.99
6	( 6)	Russia	934 000	4.36	64.97	19.02
7	( 7)	Zambia	827 107	3.86	68.83	14.92

8	( 8)	Australia	795 955	3.72	72.55	13.81
9	( 9)	Mexico	734 137	3.43	75.98	11.75
10	(12)	Indonesia	731 060	3.41	79.39	11.65
11	(10)	Canada	541 648	2.53	81.92	6.40
12	(11)	Kazakhstan	511 940	2.39	84.31	5.71
13	(13)	Poland	391 300	1.83	86.14	3.34
14	(14)	Brazil	335 761	1.57	87.71	2.46
15	(17)	Panama	331 000	1.55	89.25	2.39
16	(15)	Iran	313 612	1.46	90.72	2.14
17	(16)	Mongolia	303 030	1.42	92.13	2.00
18	(18)	Myanmar	200 360	0.94	93.07	0.88
19	(20)	Uzbekistan	148 500	0.69	93.76	0.48
20	(19)	Spain	138 060	0.64	94.40	0.42
21	(29)	Serbia	121 150	0.57	94.97	0.32
22	(22)	Turkey	108 100	0.50	95.47	0.25
23	(21)	Bulgaria	104 020	0.49	95.96	0.24
24	(30)	Ecuador	89 170	0.42	96.38	0.17
25	(23)	Sweden	88 108	0.41	96.79	0.17
26	(25)	Armenia	79 970	0.37	97.16	0.14
27	(27)	Saudi Arabia	75 180	0.35	97.51	0.12
28	(26)	Papua New Guinea	66 531	0.31	97.82	0.10
29	(28)	Philippines	51 586	0.24	98.06	0.06
30	(33)	Morocco	50 340	0.24	98.30	0.06
31	(32)	Portugal	39 443	0.18	98.48	0.03
32	(24)	Laos	38 349	0.18	98.66	0.03
33	(34)	Vietnam	33 580	0.16	98.82	0.02
34	(31)	Finland	32 384	0.15	98.97	0.02
35	(35)	South Africa	28 307	0.13	99.10	0.02
36	(37)	India	26 580	0.12	99.23	0.02
37	(38)	Eritrea	20 224	0.09	99.32	0.01
38	(36)	Mauritania	18 846	0.09	99.41	0.01
39	(40)	Pakistan	18 806	0.09	99.50	0.01
40	(**)	Botswana	11 742	0.05	99.55	0.00
41	(41)	Tanzania	11 520	0.05	99.61	0.00
42	(42)	Congo, Rep.	10 300	0.05	99.65	0.00
43	(44)	Romania	9 240	0.04	99.70	0.00
44	(43)	Colombia	9 194	0.04	99.74	0.00
45	(46)	Zimbabwe	8 650	0.04	99.78	0.00
46	(45)	Georgia	8 130	0.04	99.82	0.00
47	(48)	Kyrgyzstan	8 100	0.04	99.86	0.00
48	(47)	North Macedonia	6 810	0.03	99.89	0.00
49	(49)	Albania	5 690	0.03	99.91	0.00
50	(52)	Dominican Republic	4 774	0.02	99.94	0.00
51	(54)	Tajikistan	4 480	0.02	99.96	0.00
52	(50)	Bolivia	3 310	0.02	99.97	0.00
53	(51)	Azerbaijan	2 649	0.01	99.99	0.00
54	(53)	Korea, North	2 000	0.01	99.99	0.00
55	(39)	Namibia	950	0.00	100.00	0.00
56	(56)	Slovakia	76	0.00	100.00	0.00
57	(55)	Germany	60	0.00	100.00	0.00
		Total	21 415 370	100.00		HHI 1 097

## Gallium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	420	96.77	96.77	9 365.24
2	( 2)	Russia	5	1.15	97.93	1.33
3	( 3)	Ukraine	4	0.92	98.85	0.85
4	( 4)	Japan	3	0.69	99.54	0.48
5	( 5)	Korea, South	2	0.46	100.00	0.21
		Total	434	100.00		HHI 9 368

## Germanium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	132	92.96	92.96	8 641.14
2	( 2)	Russia	5	3.52	96.48	12.40
3	( 3)	Japan	2	1.41	97.89	1.98
4	( 4)	United States	2	1.41	99.30	1.98
5	( 5)	Ukraine	1	0.70	100.00	0.50
		Total	142	100.00		HHI 8 658

## Indium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	540	58.89	58.89	3 467.76
2	( 2)	Korea, South	190	20.72	79.61	429.31
3	( 3)	Japan	66	7.20	86.80	51.80
4	( 4)	Canada	44	4.80	91.60	23.02
5	( 5)	France	40	4.36	95.97	19.03
6	( 6)	Belgium	20	2.18	98.15	4.76
7	( 7)	Russia	10	1.09	99.24	1.19
8	( 8)	Peru	7	0.76	100.00	0.58
		Total	917	100.00		HHI 3 997

## Lead

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	2 000 000	42.73	42.73	1 825.82
2	( 2)	Australia	485 487	10.37	53.10	107.59
3	( 4)	United States	286 000	6.11	59.21	37.34

4	( 3)	Mexico	272 231	5.82	65.03	33.83
5	( 5)	Peru	264 162	5.64	70.67	31.85
6	( 6)	India	211 200	4.51	75.18	20.36
7	( 7)	Russia	199 500	4.26	79.45	18.17
8	( 9)	Turkey	93 660	2.00	81.45	4.00
9	(11)	Bolivia	92 767	1.98	83.43	3.93
10	( 8)	Iran	74 100	1.58	85.01	2.51
11	(39)	Canada	70 156	1.50	86.51	2.25
12	(10)	Sweden	65 404	1.40	87.91	1.95
13	(14)	Tajikistan	49 970	1.07	88.98	1.14
14	(24)	Nigeria	45 500	0.97	89.95	0.94
15	(13)	North Macedonia	42 870	0.92	90.86	0.84
16	(15)	Morocco	31 340	0.67	91.53	0.45
17	(19)	South Africa	31 224	0.67	92.20	0.45
18	(26)	Uzbekistan	30 500	0.65	92.85	0.42
19	(17)	Cuba	30 000	0.64	93.49	0.41
20	(16)	Kazakhstan	29 900	0.64	94.13	0.41
21	(18)	Portugal	29 526	0.63	94.76	0.40
22	(12)	Poland	29 430	0.63	95.39	0.40
23	(21)	Korea, North	25 000	0.53	95.93	0.29
24	(23)	Bulgaria	21 420	0.46	96.38	0.21
25	(22)	Argentina	17 098	0.37	96.75	0.13
26	(25)	Greece	16 773	0.36	97.11	0.13
27	(28)	Vietnam	16 350	0.35	97.46	0.12
28	(29)	Honduras	14 000	0.30	97.76	0.09
29	(27)	Ireland	13 192	0.28	98.04	0.08
30	(20)	Myanmar	12 900	0.28	98.31	0.08
31	(31)	Spain	10 880	0.23	98.55	0.05
32	(32)	Namibia	10 130	0.22	98.76	0.05
33	(30)	Mongolia	9 700	0.21	98.97	0.04
34	(34)	Pakistan	7 277	0.16	99.13	0.02
35	(35)	Indonesia	6 735	0.14	99.27	0.02
36	(33)	Serbia	6 330	0.14	99.40	0.02
37	(36)	Bosnia-Herzegovina	6 310	0.13	99.54	0.02
38	(37)	Brazil	6 307	0.13	99.67	0.02
39	(40)	Nepal	5 550	0.12	99.79	0.01
40	(38)	Kosovo	5 250	0.11	99.90	0.01
41	(41)	Korea, South	1 530	0.03	99.94	0.00
42	(42)	Finland	1 494	0.03	99.97	0.00
43	(45)	Romania	690	0.01	99.98	0.00
44	(43)	Chile	382	0.01	99.99	0.00
45	(48)	Laos	170	0.00	100.00	0.00
46	(46)	Slovakia	101	0.00	100.00	0.00
47	(47)	United Kingdom	100	0.00	100.00	0.00
		Total	4 680 596	100.00		HHI 2 097

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	113 600	48.85	48.85	2 386.70
2	( 2)	Chile	65 060	27.98	76.83	782.83
3	( 3)	China	30 500	13.12	89.95	172.04
4	( 4)	Argentina	12 870	5.53	95.48	30.63
5	( 5)	Brazil	5 670	2.44	97.92	5.95
6	( 6)	United States	2 505	1.08	99.00	1.16
7	( 7)	Zimbabwe	1 670	0.72	99.72	0.52



8	( 9)	Bolivia	410	0.18	99.89	0.03
9	( 8)	Portugal	225	0.10	99.99	0.01
10	(**)	Nigeria	20	0.01	100.00	0.00
		Total	232 530	100.00		HHI 3 380

## Mercury

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	1 400	84.49	84.49	7 138.57
2	( 2)	Tajikistan	160	9.66	94.15	93.24
3	( 3)	Mexico	40	2.41	96.56	5.83
4	( 4)	Russia	30	1.81	98.37	3.28
5	( 6)	United States	15	0.91	99.28	0.82
6	( 5)	Kyrgyzstan	10	0.60	99.88	0.36
7	( 7)	Morocco	2	0.12	100.00	0.01
		Total	1 657	100.00		HHI 7 242

## Rare Earth Minerals (REO-Content)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	168 000	62.41	62.41	3 894.56
2	( 2)	United States	42 413	15.76	78.16	248.22
3	( 3)	Myanmar	27 100	10.07	88.23	101.34
4	( 4)	Australia	21 970	8.16	96.39	66.60
5	( 5)	Madagascar	4 100	1.52	97.91	2.32
6	( 7)	India	2 600	0.97	98.88	0.93
7	( 6)	Russia	2 276	0.85	99.72	0.71
8	( 8)	Brazil	580	0.22	99.94	0.05
9	( 9)	Burundi	134	0.05	99.99	0.00
10	10)	Malaysia	30	0.01	100.00	0.00
		Total	269 203	100.00		HHI 4 315

## Rhenium

Rank 2021	Rank 2020	Country	Production 2021 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Chile	18 831	44.24	44.24	1 957.50
2	( 2)	United States	9 290	21.83	66.07	476.42
3	( 3)	Poland	6 401	15.04	81.11	226.18
4	( 4)	China	2 500	5.87	86.98	34.50
5	( 6)	Uzbekistan	2 370	5.57	92.55	31.01

6	( 5)	Russia	2 000	4.70	97.25	22.08
7	( 7)	Kazakhstan	1 000	2.35	99.60	5.52
8	( 8)	Armenia	170	0.40	100.00	0.16
		Total	42 562	100.00		HHI 2 753

## Selenium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	1 400	37.74	37.74	1 423.99
2	( 2)	Japan	720	19.41	57.14	376.63
3	( 3)	Germany	300	8.09	65.23	65.39
4	( 5)	Russia	230	6.20	71.43	38.43
5	( 8)	Philippines	200	5.39	76.82	29.06
6	( 4)	Belgium	200	5.39	82.21	29.06
7	( 6)	Mexico	135	3.64	85.85	13.24
8	( 9)	Finland	100	2.70	88.54	7.27
9	(14)	Uzbekistan	90	2.43	90.97	5.88
10	(12)	United States	70	1.89	92.86	3.56
11	(11)	Sweden	70	1.89	94.74	3.56
12	(10)	Poland	66	1.78	96.52	3.16
13	( 7)	Canada	57	1.54	98.06	2.36
14	(13)	Peru	48	1.29	99.35	1.67
15	(15)	India	20	0.54	99.89	0.29
16	(16)	Serbia	4	0.11	100.00	0.01
		Total	3 710	100.00		HHI 2 004

## Tellurium

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	530	72.21	72.21	5 213.86
2	( 2)	Japan	68	9.26	81.47	85.83
3	( 3)	Russia	60	8.17	89.65	66.82
4	( 4)	Sweden	41	5.59	95.23	31.20
5	( 5)	Canada	25	3.41	98.64	11.60
6	( 7)	Uzbekistan	5	0.68	99.32	0.46
7	( 6)	Bulgaria	3	0.41	99.73	0.17
8	( 8)	United States	2	0.27	100.00	0.07
		Total	734	100.00		HHI 5 410

## Tin

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	91 000	33.58	33.58	1 127.30
2	( 2)	Indonesia	34 466	12.72	46.29	161.71
3	( 3)	Myanmar	33 930	12.52	58.81	156.72
4	( 4)	Peru	26 995	9.96	68.77	99.20
5	( 6)	Bolivia	19 628	7.24	76.01	52.45
6	( 7)	Congo, D.R.	15 750	5.81	81.82	33.77
7	( 5)	Brazil	15 517	5.73	87.55	32.78
8	( 8)	Australia	8 772	3.24	90.79	10.47
9	(10)	Nigeria	6 890	2.54	93.33	6.46
10	( 9)	Vietnam	6 000	2.21	95.54	4.90
11	(12)	Russia	3 317	1.22	96.76	1.50
12	(11)	Malaysia	3 193	1.18	97.94	1.39
13	(13)	Rwanda	2 260	0.83	98.78	0.70
14	(**)	Mongolia	1 160	0.43	99.20	0.18
15	(14)	Laos	890	0.33	99.53	0.11
16	(15)	Namibia	492	0.18	99.71	0.03
17	(18)	Spain	220	0.08	99.80	0.01
18	(16)	Thailand	220	0.08	99.88	0.01
19	(20)	Tanzania	158	0.06	99.94	0.00
20	(17)	Burundi	95	0.04	99.97	0.00
21	(19)	Portugal	60	0.02	99.99	0.00
22	(21)	India	20	0.01	100.00	0.00
		Total	271 033	100.00		HHI 1 690

## Zinc

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	4 136 000	31.99	31.99	1 023.41
2	( 2)	Peru	1 532 173	11.85	43.84	140.44
3	( 3)	Australia	1 315 160	10.17	54.01	103.48
4	( 5)	India	796 100	6.16	60.17	37.92
5	( 4)	Mexico	742 926	5.75	65.92	33.02
6	( 6)	United States	704 000	5.45	71.36	29.65
7	( 7)	Bolivia	499 257	3.86	75.22	14.91
8	( 8)	Kazakhstan	318 000	2.46	77.68	6.05
9	(10)	Canada	310 158	2.40	80.08	5.76
10	( 9)	Russia	306 000	2.37	82.45	5.60
11	(11)	Sweden	236 416	1.83	84.28	3.34
12	(12)	Iran	195 100	1.51	85.79	2.28
13	(15)	South Africa	193 785	1.50	87.29	2.25
14	(13)	Portugal	188 395	1.46	88.74	2.12
15	(16)	Turkey	171 100	1.32	90.07	1.75
16	(14)	Brazil	159 913	1.24	91.30	1.53
17	(18)	Eritrea	129 641	1.00	92.31	1.01
18	(17)	Ireland	112 249	0.87	93.18	0.75
19	(19)	Spain	90 480	0.70	93.88	0.49
20	(20)	Burkina Faso	84 170	0.65	94.53	0.42
21	(24)	Tajikistan	79 150	0.61	95.14	0.37
22	(22)	Finland	59 080	0.46	95.60	0.21

23	(23)	Cuba	44 500	0.34	95.94	0.12
24	(27)	Uzbekistan	42 000	0.32	96.26	0.11
25	(21)	Namibia	41 180	0.32	96.58	0.10
26	(28)	Morocco	40 230	0.31	96.89	0.10
27	(26)	Mongolia	39 490	0.31	97.20	0.09
28	(29)	Pakistan	35 391	0.27	97.47	0.07
29	(31)	Honduras	32 300	0.25	97.72	0.06
30	(35)	Nigeria	32 220	0.25	97.97	0.06
31	(30)	North Macedonia	30 070	0.23	98.20	0.05
32	(36)	Korea, North	28 000	0.22	98.42	0.05
33	(32)	Chile	27 915	0.22	98.64	0.05
34	(34)	Saudi Arabia	22 710	0.18	98.81	0.03
35	(33)	Greece	22 621	0.17	98.99	0.03
36	(38)	Bulgaria	17 910	0.14	99.13	0.02
37	(39)	Congo, D.R.	16 079	0.12	99.25	0.02
38	(37)	Indonesia	14 780	0.11	99.37	0.01
39	(40)	Serbia	11 310	0.09	99.45	0.01
40	(43)	Vietnam	10 700	0.08	99.54	0.01
41	(44)	Montenegro	9 360	0.07	99.61	0.01
42	(45)	Armenia	7 706	0.06	99.67	0.00
43	(46)	Bosnia-Herzegovina	7 310	0.06	99.72	0.00
44	(42)	Myanmar	6 200	0.05	99.77	0.00
45	(41)	Argentina	6 188	0.05	99.82	0.00
46	(52)	Laos	5 400	0.04	99.86	0.00
47	(49)	Dominican Republic	4 986	0.04	99.90	0.00
48	(47)	Korea, South	4 370	0.03	99.93	0.00
49	(50)	Congo, Rep.	4 300	0.03	99.97	0.00
50	(48)	Kosovo	3 620	0.03	100.00	0.00
51	(51)	Algeria	500	0.00	100.00	0.00
52	(53)	Romania	100	0.00	100.00	0.00
53	(54)	Slovakia	25	0.00	100.00	0.00
Total			12 928 724	100.00		HHI 1 418

### 6.5.3 Precious Metals

#### Gold

Rank 2021	Rank 2020	Country	Production 2021 kg	Share in %	Share cum. %	Share HHI
1	( 1)	China	328 980	10.17	10.17	103.40
2	( 3)	Russia	313 830	9.70	19.87	94.10
3	( 2)	Australia	307 170	9.49	29.36	90.15
4	( 5)	Canada	222 524	6.88	36.24	47.31
5	( 4)	United States	187 000	5.78	42.02	33.41
6	( 6)	Mexico	124 776	3.86	45.88	14.88
7	( 8)	Kazakhstan	114 843	3.55	49.43	12.60
8	(11)	South Africa	105 036	3.25	52.68	10.54
9	(12)	Guinea	102 046	3.15	55.83	9.95
10	( 9)	Uzbekistan	100 360	3.10	58.93	9.62
11	(13)	Peru	97 339	3.01	61.94	9.05
12	(10)	Brazil	93 103	2.88	64.82	8.28
13	( 7)	Ghana	87 676	2.71	67.53	7.34
14	(15)	Indonesia	72 660	2.25	69.77	5.04
15	(14)	Mali	69 400	2.15	71.92	4.60

16	(16)	Burkina Faso	66 858	2.07	73.99	4.27
17	(17)	Tanzania	59 638	1.84	75.83	3.40
18	(19)	Colombia	55 534	1.72	77.55	2.95
19	(22)	Sudan	49 700	1.54	79.08	2.36
20	(28)	Bolivia	45 662	1.41	80.49	1.99
21	(21)	Cote d'Ivoire	41 855	1.29	81.79	1.67
22	(20)	Turkey	39 290	1.21	83.00	1.47
23	(18)	Papua New Guinea	39 145	1.21	84.21	1.46
24	(23)	Argentina	37 280	1.15	85.36	1.33
25	(24)	Chile	34 248	1.06	86.42	1.12
26	(31)	Zimbabwe	31 477	0.97	87.40	0.95
27	(25)	Congo, D.R.	31 445	0.97	88.37	0.94
28	(26)	Dominican Republic	25 437	0.79	89.15	0.62
29	(30)	Philippines	25 332	0.78	89.94	0.61
30	(27)	Kyrgyzstan	24 870	0.77	90.71	0.59
31	(32)	Mongolia	19 054	0.59	91.30	0.35
32	(29)	Suriname	18 634	0.58	91.87	0.33
33	(33)	Guyana	15 522	0.48	92.35	0.23
34	(40)	Ecuador	15 026	0.46	92.82	0.22
35	(37)	Senegal	14 678	0.45	93.27	0.21
36	(35)	Egypt	12 919	0.40	93.67	0.16
37	(36)	Saudi Arabia	12 413	0.38	94.05	0.15
38	(45)	Nicaragua	11 144	0.34	94.40	0.12
39	(38)	Korea, North	10 000	0.31	94.71	0.10
40	(39)	Bulgaria	9 695	0.30	95.01	0.09
41	(47)	Ethiopia	9 600	0.30	95.30	0.09
42	(42)	Tajikistan	9 330	0.29	95.59	0.08
43	(43)	Finland	9 082	0.28	95.87	0.08
44	(41)	Venezuela	9 000	0.28	96.15	0.08
45	(44)	Sweden	8 805	0.27	96.42	0.07
46	(53)	Laos	8 742	0.27	96.69	0.07
47	(54)	Liberia	7 860	0.24	96.93	0.06
48	(49)	Namibia	7 648	0.24	97.17	0.06
49	(48)	Iran	6 990	0.22	97.39	0.05
50	(34)	Mauritania	6 499	0.20	97.59	0.04
51	(46)	Japan	6 225	0.19	97.78	0.04
52	(50)	New Zealand	5 815	0.18	97.96	0.03
53	(67)	Serbia	4 794	0.15	98.11	0.02
54	(58)	Eritrea	4 625	0.14	98.25	0.02
55	(59)	Panama	4 405	0.14	98.39	0.02
56	(60)	Niger	4 010	0.12	98.51	0.02
57	(55)	Zambia	3 987	0.12	98.63	0.02
58	(52)	Armenia	3 714	0.11	98.75	0.01
59	(57)	Togo	3 600	0.11	98.86	0.01
60	(51)	Georgia	3 513	0.11	98.97	0.01
61	(56)	Azerbaijan	3 427	0.11	99.08	0.01
62	(61)	Greece	3 315	0.10	99.18	0.01
63	(63)	Honduras	2 824	0.09	99.27	0.01
64	(62)	Rwanda	2 000	0.06	99.33	0.00
65	(68)	Nigeria	2 000	0.06	99.39	0.00
66	(64)	Madagascar	2 000	0.06	99.45	0.00
67	(66)	Spain	1 822	0.06	99.51	0.00
68	(65)	Malaysia	1 781	0.06	99.56	0.00
69	(**)	Cambodia	1 466	0.05	99.61	0.00
70	(69)	India	1 251	0.04	99.65	0.00
71	(71)	French Guiana	1 188	0.04	99.68	0.00
72	(70)	Fiji	1 107	0.03	99.72	0.00
73	(74)	Burundi	986	0.03	99.75	0.00
74	(81)	Central African Republic	840	0.03	99.77	0.00
75	(73)	Myanmar	773	0.02	99.80	0.00
76	(72)	Poland	768	0.02	99.82	0.00
77	(79)	Mozambique	764	0.02	99.84	0.00

78	(77)	Vietnam	664	0.02	99.87	0.00
79	(75)	Botswana	649	0.02	99.89	0.00
80	(76)	Costa Rica	600	0.02	99.90	0.00
81	(78)	Romania	500	0.02	99.92	0.00
82	(80)	North Macedonia	470	0.01	99.93	0.00
83	(82)	Cameroon	440	0.01	99.95	0.00
84	(83)	Slovakia	392	0.01	99.96	0.00
85	(86)	Kenya	292	0.01	99.97	0.00
86	(91)	Gabon	200	0.01	99.97	0.00
87	(84)	Korea, South	162	0.01	99.98	0.00
88	(85)	Congo, Rep.	150	0.00	99.98	0.00
89	(93)	Sierra Leone	149	0.00	99.99	0.00
90	(87)	Morocco	147	0.00	99.99	0.00
91	(92)	United Kingdom	79	0.00	100.00	0.00
92	(90)	Algeria	71	0.00	100.00	0.00
93	(89)	Angola	35	0.00	100.00	0.00
94	(94)	Germany	12	0.00	100.00	0.00
95	(95)	Uganda	10	0.00	100.00	0.00
96	(96)	Benin	5	0.00	100.00	0.00
97	(97)	Taiwan	1	0.00	100.00	0.00
		Total	3 235 183	100.00		HHI 489

## Palladium

Rank 2021	Rank 2020	Country	Production 2021 kg	Share in %	Share cum. %	Share HHI
1	( 2)	South Africa	84 336	39.67	39.67	1 573.77
2	( 1)	Russia	83 630	39.34	79.01	1 547.53
3	( 3)	Canada	15 260	7.18	86.19	51.53
4	( 4)	United States	13 725	6.46	92.64	41.68
5	( 5)	Zimbabwe	12 619	5.94	98.58	35.23
6	( 6)	China	1 300	0.61	99.19	0.37
7	( 7)	Finland	1 036	0.49	99.68	0.24
8	( 8)	Australia	380	0.18	99.86	0.03
9	(10)	Uzbekistan	160	0.08	99.93	0.01
10	( 9)	Serbia	140	0.07	100.00	0.00
11	(11)	Poland	4	0.00	100.00	0.00
		Total	212 590	100.00		HHI 3 250

## Platinum

Rank 2021	Rank 2020	Country	Production 2021 kg	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	141 626	74.20	74.20	5 505.96
2	( 2)	Russia	19 840	10.39	84.60	108.05
3	( 3)	Zimbabwe	14 732	7.72	92.32	59.58
4	( 4)	Canada	5 960	3.12	95.44	9.75
5	( 5)	United States	4 017	2.10	97.54	4.43
6	( 6)	China	2 500	1.31	98.85	1.72
7	( 7)	Finland	1 447	0.76	99.61	0.57

8	( 8)	Colombia	618	0.32	99.93	0.10
9	( 9)	Australia	90	0.05	99.98	0.00
10	(10)	Serbia	30	0.02	100.00	0.00
11	(11)	Poland	5	0.00	100.00	0.00
		Total	190 865	100.00		HHI 5 690

## Rhodium

Rank 2021	Rank 2020	Country	Production 2021 kg	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	20 875	85.28	85.28	7 272.20
2	( 2)	Russia	1 650	6.74	92.02	45.43
3	( 3)	Zimbabwe	1 334	5.45	97.47	29.70
4	( 4)	Canada	520	2.12	99.59	4.51
5	( 5)	United States	100	0.41	100.00	0.17
		Total	24 479	100.00		HHI 7 352

## Silver

Rank 2021	Rank 2020	Country	Production 2021 kg	Share in %	Share cum. %	Share HHI
1	( 1)	Mexico	6 118 000	23.59	23.59	556.31
2	( 2)	China	3 511 600	13.54	37.12	183.28
3	( 3)	Peru	3 310 192	12.76	49.89	162.86
4	( 4)	Chile	1 383 041	5.33	55.22	28.43
5	( 6)	Australia	1 329 718	5.13	60.34	26.28
6	( 7)	Poland	1 302 900	5.02	65.37	25.23
7	(10)	Bolivia	1 289 456	4.97	70.34	24.71
8	( 5)	Russia	1 280 000	4.93	75.27	24.35
9	( 9)	United States	1 020 000	3.93	79.20	15.46
10	( 8)	Kazakhstan	1 004 789	3.87	83.08	15.01
11	(11)	Argentina	842 600	3.25	86.33	10.55
12	(12)	India	647 140	2.49	88.82	6.22
13	(13)	Sweden	428 585	1.65	90.47	2.73
14	(15)	Canada	325 026	1.25	91.73	1.57
15	(14)	Indonesia	295 920	1.14	92.87	1.30
16	(16)	Uzbekistan	211 500	0.82	93.68	0.66
17	(17)	Morocco	194 360	0.75	94.43	0.56
18	(19)	Turkey	162 670	0.63	95.06	0.39
19	(20)	Portugal	97 945	0.38	95.44	0.14
20	(18)	Papua New Guinea	90 200	0.35	95.79	0.12
21	(24)	Brazil	80 870	0.31	96.10	0.10
22	(21)	Spain	80 848	0.31	96.41	0.10
23	(22)	Dominican Republic	79 688	0.31	96.72	0.09
24	(23)	Mongolia	79 035	0.30	97.02	0.09
25	(30)	Panama	78 419	0.30	97.32	0.09
26	(25)	Eritrea	68 624	0.26	97.59	0.07
27	(28)	Iran	50 000	0.19	97.78	0.04
28	(29)	Korea, North	50 000	0.19	97.97	0.04
29	(26)	Finland	45 338	0.17	98.15	0.03
30	(27)	Greece	44 086	0.17	98.32	0.03

31	(32)	Bulgaria	38 661	0.15	98.47	0.02
32	(31)	Honduras	37 495	0.14	98.61	0.02
33	(33)	South Africa	37 146	0.14	98.75	0.02
34	(35)	Philippines	30 856	0.12	98.87	0.01
35	(34)	Laos	26 998	0.10	98.98	0.01
36	(37)	Colombia	26 963	0.10	99.08	0.01
37	(56)	Ecuador	23 698	0.09	99.17	0.01
38	(36)	Nicaragua	21 460	0.08	99.26	0.01
39	(38)	Armenia	19 480	0.08	99.33	0.01
40	(39)	Romania	18 000	0.07	99.40	0.00
41	(40)	Kyrgyzstan	16 549	0.06	99.46	0.00
42	(41)	North Macedonia	15 470	0.06	99.52	0.00
43	(45)	Georgia	12 700	0.05	99.57	0.00
44	(42)	Serbia	11 600	0.04	99.62	0.00
45	(44)	Tajikistan	11 500	0.04	99.66	0.00
46	(**)	Botswana	10 383	0.04	99.70	0.00
47	(50)	Korea, South	10 001	0.04	99.74	0.00
48	(43)	Tanzania	9 324	0.04	99.78	0.00
49	(47)	Azerbaijan	8 988	0.03	99.81	0.00
50	(46)	Burkina Faso	8 897	0.03	99.85	0.00
51	(49)	Saudi Arabia	6 818	0.03	99.87	0.00
52	(52)	Germany	6 000	0.02	99.89	0.00
53	(48)	Namibia	5 847	0.02	99.92	0.00
54	(53)	Congo, D.R.	3 400	0.01	99.93	0.00
55	(51)	Japan	3 339	0.01	99.94	0.00
56	(57)	New Zealand	3 055	0.01	99.95	0.00
57	(54)	Mali	3 000	0.01	99.97	0.00
58	(62)	Ireland	1 342	0.01	99.97	0.00
59	(58)	Senegal	1 310	0.01	99.98	0.00
60	(55)	Ghana	1 000	0.00	99.98	0.00
61	(59)	Ethiopia	1 000	0.00	99.98	0.00
62	(61)	Cote d'Ivoire	1 000	0.00	99.99	0.00
63	(60)	Sudan	1 000	0.00	99.99	0.00
64	(65)	Malaysia	672	0.00	99.99	0.00
65	(64)	Fiji	622	0.00	100.00	0.00
66	(68)	United Kingdom	358	0.00	100.00	0.00
67	(66)	Slovakia	328	0.00	100.00	0.00
68	(67)	Niger	100	0.00	100.00	0.00
69	(69)	Algeria	12	0.00	100.00	0.00
		Total	25 938 922	100.00		HHI 1 087

## 6.5.4 Industrial Minerals

### Asbestos

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	750 000	58.03	58.03	3 367.89
2	( 2)	Kazakhstan	250 100	19.35	77.39	374.51
3	( 4)	Brazil	172 256	13.33	90.71	177.66
4	( 3)	China	120 000	9.29	100.00	86.22
		Total	1 292 356	100.00		HHI 4 006



## Baryte

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	India	2 500 000	29.87	29.87	892.27
2	( 2)	China	2 200 000	26.29	56.16	690.98
3	( 5)	Kazakhstan	1 016 500	12.15	68.30	147.51
4	( 3)	Morocco	840 486	10.04	78.35	100.85
5	( 4)	Mexico	320 642	3.83	82.18	14.68
6	( 6)	Iran	297 469	3.55	85.73	12.63
7	(13)	United States	257 450	3.08	88.81	9.46
8	( 7)	Turkey	256 076	3.06	91.87	9.36
9	( 8)	Russia	252 000	3.01	94.88	9.07
10	(14)	Bulgaria	72 000	0.86	95.74	0.74
11	(11)	Pakistan	51 553	0.62	96.35	0.38
12	(13)	United Kingdom	50 000	0.60	96.95	0.36
13	(15)	Canada	50 000	0.60	97.55	0.36
14	(12)	Vietnam	39 600	0.47	98.02	0.22
15	(10)	Laos	37 403	0.45	98.47	0.20
16	(16)	Algeria	33 000	0.39	98.86	0.16
17	(17)	Germany	27 921	0.33	99.20	0.11
18	(20)	Bolivia	26 780	0.32	99.52	0.10
19	(19)	Tunisia	11 100	0.13	99.65	0.02
20	(21)	Peru	10 361	0.12	99.77	0.02
21	(18)	Thailand	4 988	0.06	99.83	0.00
22	(23)	Egypt	4 000	0.05	99.88	0.00
23	(22)	Korea, North	4 000	0.05	99.93	0.00
24	(24)	Myanmar	2 220	0.03	99.95	0.00
25	(**)	Australia	1 127	0.01	99.97	0.00
26	(26)	Ecuador	1 000	0.01	99.98	0.00
27	(25)	Colombia	744	0.01	99.99	0.00
28	(28)	Nigeria	460	0.01	99.99	0.00
29	(27)	Brazil	361	0.00	100.00	0.00
30	(29)	Guatemala	100	0.00	100.00	0.00
		Total	8 369 341	100.00		HHI 1 889

## Bentonite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	4 590 000	24.43	24.43	596.91
2	( 2)	India	3 550 000	18.90	43.33	357.06
3	( 3)	China	2 500 000	13.31	56.63	177.08
4	( 4)	Turkey	2 020 356	10.75	67.39	115.65
5	( 5)	Greece	1 257 216	6.69	74.08	44.78
6	( 7)	Iran	1 153 283	6.14	80.22	37.68
7	( 6)	Russia	500 000	2.66	82.88	7.08
8	( 8)	Germany	363 000	1.93	84.81	3.73
9	( 9)	Slovakia	274 050	1.46	86.27	2.13
10	(10)	Japan	250 000	1.33	87.60	1.77
11	(12)	Brazil	220 000	1.17	88.77	1.37
12	(11)	Czech Republic	198 000	1.05	89.83	1.11
13	(15)	Azerbaijan	174 242	0.93	90.76	0.86
14	(13)	Spain	171 572	0.91	91.67	0.83

15	(20)	Morocco	134 340	0.72	92.38	0.51
16	(18)	Argentina	133 235	0.71	93.09	0.50
17	(16)	Ukraine	125 000	0.67	93.76	0.44
18	(22)	Mozambique	118 692	0.63	94.39	0.40
19	(21)	South Africa	98 606	0.52	94.91	0.28
20	(19)	Cyprus	81 655	0.43	95.35	0.19
21	(23)	Mexico	80 000	0.43	95.78	0.18
22	(24)	Bosnia-Herzegovina	75 761	0.40	96.18	0.16
23	(31)	Bulgaria	72 100	0.38	96.56	0.15
24	(26)	Kazakhstan	60 000	0.32	96.88	0.10
25	(17)	Pakistan	59 744	0.32	97.20	0.10
26	(35)	Peru	56 199	0.30	97.50	0.09
27	(28)	Romania	54 648	0.29	97.79	0.08
28	(14)	Colombia	51 353	0.27	98.06	0.07
29	(27)	Uzbekistan	50 000	0.27	98.33	0.07
30	(29)	Australia	46 658	0.25	98.58	0.06
31	(30)	Hungary	42 000	0.22	98.80	0.05
32	(33)	France	36 000	0.19	98.99	0.04
33	(34)	Algeria	36 000	0.19	99.18	0.04
34	(40)	Korea, South	34 243	0.18	99.37	0.03
35	(25)	Italy	32 252	0.17	99.54	0.03
36	(32)	Denmark	20 281	0.11	99.65	0.01
37	(36)	Uruguay	19 710	0.10	99.75	0.01
38	(**)	Norway	12 803	0.07	99.82	0.00
39	(37)	Turkmenistan	10 000	0.05	99.87	0.00
40	(39)	Guatemala	7 378	0.04	99.91	0.00
41	(38)	Egypt	7 000	0.04	99.95	0.00
42	(41)	Philippines	6 059	0.03	99.98	0.00
43	(42)	North Macedonia	1 277	0.01	99.99	0.00
44	(46)	Cuba	517	0.00	99.99	0.00
45	(45)	Myanmar	500	0.00	99.99	0.00
46	(43)	Poland	500	0.00	100.00	0.00
47	(44)	New Zealand	500	0.00	100.00	0.00
48	(47)	Chile	170	0.00	100.00	0.00
49	(48)	Slovenia	75	0.00	100.00	0.00
Total			18 786 975	100.00		HHI 1 352

## Boron Minerals

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	2 540 000	51.63	51.63	2 665.46
2	( 2)	United States	900 000	18.29	69.92	334.65
3	( 3)	Chile	363 032	7.38	77.30	54.45
4	( 4)	Bolivia	309 940	6.30	83.60	39.69
5	( 5)	China	250 000	5.08	88.68	25.82
6	( 8)	Peru	246 362	5.01	93.69	25.08
7	( 6)	Argentina	188 870	3.84	97.53	14.74
8	( 7)	Russia	89 600	1.82	99.35	3.32
9	( 9)	Kazakhstan	30 000	0.61	99.96	0.37
10	(10)	Iran	2 000	0.04	100.00	0.00
Total			4 919 804	100.00		HHI 3 164

## Diamonds (Gem)

Rank 2021	Rank 2020	Country	Production 2021 ct	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	23 470 180	31.15	31.15	970.61
2	( 2)	Canada	17 353 418	23.04	54.19	530.62
3	( 3)	Botswana	15 887 200	21.09	75.28	444.74
4	( 4)	Angola	7 850 760	10.42	85.70	108.60
5	( 5)	South Africa	4 506 940	5.98	91.68	35.79
6	( 6)	Congo, D.R.	2 594 650	3.44	95.13	11.86
7	( 7)	Namibia	1 446 964	1.92	97.05	3.69
8	( 9)	Zimbabwe	845 040	1.12	98.17	1.26
9	( 8)	Sierra Leone	541 400	0.72	98.89	0.52
10	(10)	Lesotho	339 452	0.45	99.34	0.20
11	(13)	Guinea	204 990	0.27	99.61	0.07
12	(14)	Central African Republic	74 220	0.10	99.71	0.01
13	(12)	Tanzania	53 165	0.07	99.78	0.00
14	(15)	Brazil	46 670	0.06	99.84	0.00
15	(17)	Ghana	43 340	0.06	99.90	0.00
16	(16)	Liberia	37 820	0.05	99.95	0.00
17	(18)	Guyana	33 830	0.04	99.99	0.00
18	(20)	Cote d'Ivoire	4 121	0.01	100.00	0.00
19	(21)	Venezuela	457	0.00	100.00	0.00
		Total	75 334 617	100.00		HHI 2 108

## Diamonds (Ind)

Rank 2021	Rank 2020	Country	Production 2021 ct	Share in %	Share cum. %	Share HHI
1	( 1)	Russia	15 646 790	36.45	36.45	1 328.84
2	( 2)	Congo, D.R.	10 378 700	24.18	60.63	584.67
3	( 4)	Botswana	6 808 800	15.86	76.50	251.63
4	( 5)	South Africa	5 216 870	12.15	88.65	147.72
5	( 6)	Zimbabwe	3 380 140	7.87	96.52	62.01
6	( 7)	Angola	872 310	2.03	98.56	4.13
7	( 9)	Sierra Leone	297 700	0.69	99.25	0.48
8	( 8)	Brazil	94 760	0.22	99.47	0.05
9	(10)	Namibia	76 156	0.18	99.65	0.03
10	(11)	Guinea	68 330	0.16	99.81	0.03
11	(13)	Liberia	25 210	0.06	99.87	0.00
12	(14)	Central African Republic	18 550	0.04	99.91	0.00
13	(18)	Guyana	11 280	0.03	99.94	0.00
14	(17)	Ghana	10 835	0.03	99.96	0.00
15	(12)	Tanzania	9 380	0.02	99.98	0.00
16	(15)	Congo, Rep.	4 125	0.01	99.99	0.00
17	(19)	Cameroon	2 668	0.01	100.00	0.00
18	(16)	India	266	0.00	100.00	0.00
		Total	42 922 870	100.00		HHI 2 380

## Diatomite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	998 000	39.24	39.24	1 539.79
2	( 5)	Turkey	207 732	8.17	47.41	66.71
3	( 2)	China	200 000	7.86	55.27	61.84
4	(12)	Russia	176 800	6.95	62.22	48.32
5	( 3)	Mexico	160 956	6.33	68.55	40.05
6	( 6)	Argentina	156 342	6.15	74.70	37.79
7	( 4)	Denmark	120 600	4.74	79.44	22.49
8	( 8)	Peru	94 860	3.73	83.17	13.91
9	( 7)	France	90 000	3.54	86.71	12.52
10	(15)	Mozambique	72 914	2.87	89.58	8.22
11	(11)	Germany	58 519	2.30	91.88	5.29
12	(10)	Spain	55 982	2.20	94.08	4.85
13	( 9)	Korea, South	49 616	1.95	96.03	3.81
14	(16)	Chile	27 096	1.07	97.09	1.14
15	(20)	Australia	25 935	1.02	98.11	1.04
16	(13)	Czech Republic	18 000	0.71	98.82	0.50
17	(14)	Brazil	10 665	0.42	99.24	0.18
18	(23)	Iran	5 550	0.22	99.46	0.05
19	(17)	Ethiopia	5 000	0.20	99.66	0.04
20	(18)	Costa Rica	4 000	0.16	99.81	0.02
21	(19)	Algeria	3 000	0.12	99.93	0.01
22	(22)	Poland	980	0.04	99.97	0.00
23	(21)	Kenya	763	0.03	100.00	0.00
		Total	2 543 310	100.00		HHI 1 869

## Feldspar

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	12 936 959	36.10	36.10	1 303.13
2	( 2)	India	6 430 000	17.94	54.04	321.92
3	( 5)	Iran	2 803 515	7.82	61.86	61.20
4	( 3)	China	2 450 000	6.84	68.70	46.74
5	( 4)	Italy	2 200 000	6.14	74.84	37.68
6	( 6)	Thailand	1 346 997	3.76	78.60	14.13
7	(14)	Korea, South	987 309	2.75	81.35	7.59
8	( 7)	Spain	820 749	2.29	83.64	5.24
9	( 9)	Saudi Arabia	549 000	1.53	85.17	2.35
10	(13)	Czech Republic	504 000	1.41	86.58	1.98
11	(10)	France	500 000	1.40	87.98	1.95
12	(11)	Brazil	491 042	1.37	89.35	1.88
13	(15)	Pakistan	451 985	1.26	90.61	1.59
14	(21)	Morocco	427 387	1.19	91.80	1.42
15	( 8)	Mexico	372 102	1.04	92.84	1.08
16	(12)	United States	340 000	0.95	93.79	0.90
17	(17)	Indonesia	313 200	0.87	94.66	0.76
18	(16)	Russia	290 000	0.81	95.47	0.65
19	(19)	Germany	223 007	0.62	96.09	0.39
20	(20)	Egypt	200 000	0.56	96.65	0.31
21	(22)	Algeria	170 000	0.47	97.12	0.23

22	(18)	Malaysia	168 570	0.47	97.60	0.22
23	(24)	Portugal	145 362	0.41	98.00	0.16
24	(28)	South Africa	67 113	0.19	98.19	0.04
25	(27)	Ukraine	60 000	0.17	98.36	0.03
26	(25)	Norway	60 000	0.17	98.52	0.03
27	(26)	Sri Lanka	60 000	0.17	98.69	0.03
28	(41)	Finland	52 706	0.15	98.84	0.02
29	(29)	Philippines	47 000	0.13	98.97	0.02
30	(23)	Colombia	46 887	0.13	99.10	0.02
31	(40)	Nigeria	43 997	0.12	99.22	0.02
32	(30)	Austria	35 000	0.10	99.32	0.01
33	(36)	Guatemala	34 232	0.10	99.42	0.01
34	(31)	Argentina	32 000	0.09	99.50	0.01
35	(32)	Venezuela	30 000	0.08	99.59	0.01
36	(35)	Sweden	28 000	0.08	99.67	0.01
37	(38)	Peru	27 274	0.08	99.74	0.01
38	(43)	North Macedonia	26 625	0.07	99.82	0.01
39	(39)	Romania	20 000	0.06	99.87	0.00
40	(42)	Cuba	17 800	0.05	99.92	0.00
41	(33)	Poland	11 110	0.03	99.95	0.00
42	(34)	Slovakia	10 000	0.03	99.98	0.00
43	(37)	Sudan	6 400	0.02	100.00	0.00
44	(46)	Uruguay	240	0.00	100.00	0.00
45	(44)	Australia	52	0.00	100.00	0.00
Total			35 837 620	100.00		HHI 1 814

## Fluorspar

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	5 400 000	64.35	64.35	4 140.62
2	( 2)	Mexico	1 007 118	12.00	76.35	144.03
3	( 3)	Mongolia	644 300	7.68	84.03	58.95
4	( 4)	South Africa	400 000	4.77	88.79	22.72
5	( 5)	Vietnam	215 027	2.56	91.36	6.57
6	( 7)	Morocco	189 012	2.25	93.61	5.07
7	( 6)	Spain	143 523	1.71	95.32	2.92
8	(12)	Russia	76 000	0.91	96.22	0.82
9	( 8)	Germany	56 632	0.67	96.90	0.46
10	( 9)	Iran	55 000	0.66	97.55	0.43
11	(10)	Canada	50 000	0.60	98.15	0.35
12	(11)	Argentina	48 000	0.57	98.72	0.33
13	(13)	Brazil	28 158	0.34	99.06	0.11
14	(16)	United Kingdom	16 674	0.20	99.26	0.04
15	(14)	Turkey	10 348	0.12	99.38	0.02
16	(17)	Afghanistan	10 000	0.12	99.50	0.01
17	(18)	Tajikistan	10 000	0.12	99.62	0.01
18	(19)	Thailand	9 766	0.12	99.73	0.01
19	(21)	Pakistan	7 841	0.09	99.83	0.01
20	(15)	Nigeria	6 275	0.07	99.90	0.01
21	(20)	Korea, North	6 000	0.07	99.97	0.01
22	(22)	India	1 237	0.01	99.99	0.00
23	(23)	Egypt	1 000	0.01	100.00	0.00
Total			8 391 911	100.00		HHI 4 383

## Graphite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	735 000	62.96	62.96	3 963.81
2	( 3)	Madagascar	88 110	7.55	70.51	56.96
3	( 2)	Brazil	78 555	6.73	77.24	45.28
4	( 6)	Mozambique	77 116	6.61	83.84	43.63
5	( 5)	India	57 264	4.91	88.75	24.06
6	( 4)	Korea, North	30 000	2.57	91.32	6.60
7	( 7)	Turkey	28 336	2.43	93.74	5.89
8	(13)	Korea, South	18 297	1.57	95.31	2.46
9	( 8)	Russia	17 300	1.48	96.79	2.20
10	( 9)	Ukraine	17 000	1.46	98.25	2.12
11	(10)	Canada	7 700	0.66	98.91	0.44
12	(11)	Norway	6 293	0.54	99.45	0.29
13	(14)	Sri Lanka	3 200	0.27	99.72	0.08
14	(15)	Mexico	1 778	0.15	99.87	0.02
15	(12)	Vietnam	1 200	0.10	99.98	0.01
16	(16)	Germany	181	0.02	99.99	0.00
17	(17)	Austria	100	0.01	100.00	0.00
		Total	1 167 430	100.00		HHI 4 154

## Gypsum and Anhydrite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	25 000 000	14.47	14.47	209.24
2	( 2)	United States	21 300 000	12.32	26.79	151.89
3	( 4)	Spain	14 629 150	8.46	35.25	71.65
4	( 3)	Iran	14 322 761	8.29	43.54	68.68
5	( 5)	Oman	13 243 981	7.66	51.20	58.72
6	( 6)	Turkey	10 620 061	6.14	57.35	37.76
7	( 7)	Thailand	10 402 998	6.02	63.37	36.23
8	( 8)	Mexico	6 386 777	3.70	67.06	13.66
9	(10)	Germany	5 470 000	3.16	70.23	10.02
10	(11)	Russia	4 629 000	2.68	72.91	7.17
11	(13)	Australia	4 168 380	2.41	75.32	5.82
12	(12)	Saudi Arabia	3 993 000	2.31	77.63	5.34
13	( 9)	India	3 547 250	2.05	79.68	4.21
14	(18)	France	3 370 757	1.95	81.63	3.80
15	(14)	Canada	3 135 484	1.81	83.45	3.29
16	(15)	Brazil	2 887 575	1.67	85.12	2.79
17	(17)	Pakistan	2 527 215	1.46	86.58	2.14
18	(16)	Algeria	2 500 000	1.45	88.03	2.09
19	(19)	Ukraine	1 783 300	1.03	89.06	1.06
20	(20)	United Kingdom	1 300 000	0.75	89.81	0.57
21	(28)	Laos	1 221 959	0.71	90.52	0.50
22	(21)	Poland	1 123 000	0.65	91.17	0.42
23	(24)	Chile	1 007 206	0.58	91.75	0.34
24	(22)	Iraq	1 000 000	0.58	92.33	0.33
25	(23)	Romania	952 617	0.55	92.88	0.30
26	(26)	Tunisia	908 130	0.53	93.40	0.28
27	(25)	Austria	900 374	0.52	93.93	0.27

28	(30)	Greece	900 000	0.52	94.45	0.27
29	(27)	Egypt	800 000	0.46	94.91	0.21
30	(31)	Argentina	690 000	0.40	95.31	0.16
31	(29)	Cyprus	661 175	0.38	95.69	0.15
32	(32)	Tanzania	598 053	0.35	96.04	0.12
33	(50)	Peru	435 459	0.25	96.29	0.06
34	(38)	Azerbaijan	417 892	0.24	96.53	0.06
35	(35)	Bhutan	403 753	0.23	96.76	0.05
36	(48)	Jordan	399 968	0.23	97.00	0.05
37	(34)	Latvia	383 990	0.22	97.22	0.05
38	(37)	Dominican Republic	329 630	0.19	97.41	0.04
39	(36)	Switzerland	320 000	0.19	97.59	0.03
40	(39)	Moldova	307 900	0.18	97.77	0.03
41	(53)	Bosnia-Herzegovina	297 225	0.17	97.94	0.03
42	(40)	Colombia	293 186	0.17	98.11	0.03
43	(44)	Croatia	285 966	0.17	98.28	0.03
44	(46)	South Africa	277 376	0.16	98.44	0.03
45	(43)	North Macedonia	273 497	0.16	98.60	0.03
46	(42)	Ethiopia	255 000	0.15	98.75	0.02
47	(45)	Portugal	254 913	0.15	98.89	0.02
48	(47)	Libya	200 000	0.12	99.01	0.01
49	(57)	Kazakhstan	184 700	0.11	99.12	0.01
50	(33)	Guatemala	138 552	0.08	99.20	0.01
51	(49)	Sudan	136 000	0.08	99.27	0.01
52	(55)	Albania	116 295	0.07	99.34	0.00
53	(56)	Mongolia	111 400	0.06	99.41	0.00
54	(52)	Ireland	110 000	0.06	99.47	0.00
55	(58)	Norway	92 794	0.05	99.52	0.00
56	(59)	Georgia	90 000	0.05	99.58	0.00
57	(65)	Bulgaria	77 400	0.04	99.62	0.00
58	(54)	Mauritania	70 000	0.04	99.66	0.00
59	(61)	Syria	70 000	0.04	99.70	0.00
60	(60)	Slovakia	66 600	0.04	99.74	0.00
61	(62)	Jamaica	66 000	0.04	99.78	0.00
62	(64)	Cuba	53 200	0.03	99.81	0.00
63	(41)	Myanmar	51 240	0.03	99.84	0.00
64	(67)	Angola	50 000	0.03	99.87	0.00
65	(66)	Honduras	45 000	0.03	99.89	0.00
66	(70)	Kyrgyzstan	31 680	0.02	99.91	0.00
67	(69)	Armenia	26 885	0.02	99.93	0.00
68	(72)	Yemen	20 000	0.01	99.94	0.00
69	(63)	Nicaragua	19 999	0.01	99.95	0.00
70	(73)	Eritrea	18 000	0.01	99.96	0.00
71	(74)	Czech Republic	17 000	0.01	99.97	0.00
72	(71)	Afghanistan	16 349	0.01	99.98	0.00
73	(68)	Nigeria	13 401	0.01	99.99	0.00
74	(75)	Tajikistan	10 000	0.01	99.99	0.00
75	(76)	Kenya	6 000	0.00	100.00	0.00
76	(77)	Paraguay	4 500	0.00	100.00	0.00
77	(78)	Bolivia	1 000	0.00	100.00	0.00
		Total	172 829 953	100.00		HHI 700

## Kaolin

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	India	8 000 000	18.46	18.46	340.78
2	( 2)	China	6 400 000	14.77	33.23	218.10
3	( 3)	Germany	5 291 000	12.21	45.44	149.06
4	( 4)	United States	4 300 000	9.92	55.36	98.45
5	( 5)	Czech Republic	3 454 000	7.97	63.33	63.52
6	( 8)	Ukraine	2 317 723	5.35	68.68	28.60
7	( 6)	Russia	2 193 800	5.06	73.74	25.63
8	(11)	Turkey	1 748 014	4.03	77.77	16.27
9	( 9)	Indonesia	1 568 000	3.62	81.39	13.09
10	( 7)	Iran	1 348 232	3.11	84.50	9.68
11	(10)	Brazil	1 153 884	2.66	87.17	7.09
12	(12)	United Kingdom	620 000	1.43	88.60	2.05
13	(14)	Uzbekistan	413 910	0.96	89.55	0.91
14	(16)	Portugal	387 223	0.89	90.45	0.80
15	(18)	Bulgaria	380 000	0.88	91.32	0.77
16	(13)	Korea, South	352 003	0.81	92.13	0.66
17	(17)	Poland	315 040	0.73	92.86	0.53
18	(19)	Spain	303 743	0.70	93.56	0.49
19	(22)	France	289 057	0.67	94.23	0.44
20	(21)	Serbia	249 000	0.57	94.80	0.33
21	(23)	Egypt	230 000	0.53	95.33	0.28
22	(15)	Malaysia	228 605	0.53	95.86	0.28
23	(24)	Saudi Arabia	224 000	0.52	96.38	0.27
24	(20)	Mexico	223 332	0.52	96.89	0.27
25	(25)	Italy	180 000	0.42	97.31	0.17
26	(26)	Australia	173 187	0.40	97.71	0.16
27	(31)	Thailand	124 798	0.29	98.00	0.08
28	(28)	Algeria	120 000	0.28	98.27	0.08
29	(30)	Tanzania	100 950	0.23	98.51	0.05
30	(29)	Vietnam	100 000	0.23	98.74	0.05
31	(38)	Colombia	70 032	0.16	98.90	0.03
32	(27)	Bosnia-Herzegovina	62 599	0.14	99.04	0.02
33	(33)	New Zealand	55 000	0.13	99.17	0.02
34	(35)	Chile	49 533	0.11	99.29	0.01
35	(36)	Slovakia	38 780	0.09	99.37	0.01
36	(32)	Oman	35 350	0.08	99.46	0.01
37	(37)	Sri Lanka	30 000	0.07	99.53	0.00
38	(39)	South Africa	29 168	0.07	99.59	0.00
39	(34)	Philippines	27 700	0.06	99.66	0.00
40	(40)	Argentina	25 000	0.06	99.71	0.00
41	(49)	Nigeria	23 530	0.05	99.77	0.00
42	(42)	Kyrgyzstan	15 000	0.03	99.80	0.00
43	(44)	Austria	13 500	0.03	99.83	0.00
44	(45)	Peru	13 142	0.03	99.86	0.00
45	(43)	Pakistan	12 309	0.03	99.89	0.00
46	(47)	Japan	12 000	0.03	99.92	0.00
47	(48)	Jordan	11 000	0.03	99.95	0.00
48	(46)	Uganda	10 000	0.02	99.97	0.00
49	(50)	Paraguay	6 000	0.01	99.98	0.00
50	(41)	Sudan	3 700	0.01	99.99	0.00
51	(51)	Cuba	1 375	0.00	99.99	0.00



52	(52)	Ethiopia	1 000	0.00	100.00	0.00
53	(53)	Kenya	900	0.00	100.00	0.00
54	(55)	Guatemala	295	0.00	100.00	0.00
55	(54)	Taiwan	30	0.00	100.00	0.00
		Total	43 336 444	100.00		HHI 979

## Magnesite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	18 000 000	64.26	64.26	4 128.78
2	( 2)	Turkey	1 927 280	6.88	71.14	47.33
3	( 3)	Brazil	1 800 000	6.43	77.56	41.29
4	( 4)	Russia	1 108 700	3.96	81.52	15.66
5	( 6)	Australia	893 623	3.19	84.71	10.18
6	( 5)	Austria	844 226	3.01	87.72	9.08
7	( 7)	Slovakia	781 600	2.79	90.51	7.78
8	( 8)	Spain	703 834	2.51	93.03	6.31
9	( 9)	United States	442 976	1.58	94.61	2.50
10	(10)	Greece	336 000	1.20	95.81	1.44
11	(12)	Saudi Arabia	250 000	0.89	96.70	0.80
12	(11)	Iran	248 376	0.89	97.59	0.79
13	(13)	Canada	180 000	0.64	98.23	0.41
14	(14)	Finland	179 781	0.64	98.87	0.41
15	(16)	India	113 495	0.41	99.27	0.16
16	(15)	Korea, North	100 000	0.36	99.63	0.13
17	(17)	Poland	65 820	0.23	99.87	0.06
18	(18)	Pakistan	15 120	0.05	99.92	0.00
19	(20)	Guatemala	14 100	0.05	99.97	0.00
20	(19)	South Africa	5 000	0.02	99.99	0.00
21	(21)	Cuba	3 000	0.01	100.00	0.00
22	(23)	Bosnia-Herzegovina	196	0.00	100.00	0.00
		Total	28 013 127	100.00		HHI 4 273

## Perlite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Turkey	1 428 695	38.59	38.59	1 488.84
2	( 3)	Greece	975 000	26.33	64.92	693.39
3	( 2)	United States	884 000	23.87	88.79	570.00
4	( 4)	Armenia	168 242	4.54	93.34	20.65
5	( 5)	Iran	77 024	2.08	95.42	4.33
6	( 6)	Russia	45 000	1.22	96.63	1.48
7	( 7)	Hungary	44 000	1.19	97.82	1.41
8	( 8)	Slovakia	37 240	1.01	98.83	1.01
9	(10)	Argentina	18 016	0.49	99.31	0.24
10	( 9)	Georgia	12 500	0.34	99.65	0.11

11	(**)	Philippines	4 631	0.13	99.78	0.02
12	(12)	Australia	3 821	0.10	99.88	0.01
13	(11)	Thailand	3 500	0.09	99.97	0.01
14	(13)	South Africa	1 000	0.03	100.00	0.00
		Total	3 702 669	100.00		HHI 2 781

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	30 869 700	40.96	40.96	1 677.48
2	( 2)	Morocco	12 176 200	16.16	57.11	260.99
3	( 3)	United States	6 070 000	8.05	65.17	64.86
4	( 4)	Russia	5 517 800	7.32	72.49	53.60
5	( 5)	Peru	4 094 930	5.43	77.92	29.52
6	( 6)	Jordan	3 204 880	4.25	82.17	18.08
7	( 7)	Saudi Arabia	2 730 000	3.62	85.79	13.12
8	( 8)	Brazil	1 765 000	2.34	88.14	5.48
9	(11)	Tunisia	1 080 700	1.43	89.57	2.06
10	(10)	Egypt	986 000	1.31	90.88	1.71
11	(12)	Senegal	792 800	1.05	91.93	1.11
12	( 9)	Israel	777 900	1.03	92.96	1.07
13	(16)	South Africa	767 600	1.02	93.98	1.04
14	(18)	Algeria	612 000	0.81	94.79	0.66
15	(13)	Vietnam	598 400	0.79	95.59	0.63
16	(15)	Togo	538 860	0.71	96.30	0.51
17	(17)	Kazakhstan	426 420	0.57	96.87	0.32
18	(14)	Syria	400 000	0.53	97.40	0.28
19	(19)	Finland	363 720	0.48	97.88	0.23
20	(20)	India	323 750	0.43	98.31	0.18
21	(21)	Iraq	300 000	0.40	98.71	0.16
22	(22)	Turkey	287 100	0.38	99.09	0.15
23	(24)	Uzbekistan	150 000	0.20	99.29	0.04
24	(27)	Mexico	136 900	0.18	99.47	0.03
25	(25)	Christmas Island	120 290	0.16	99.63	0.03
26	(28)	Nauru	102 500	0.14	99.76	0.02
27	(26)	Iran	83 900	0.11	99.88	0.01
28	(30)	Sri Lanka	23 880	0.03	99.91	0.00
29	(31)	Pakistan	21 640	0.03	99.94	0.00
30	(29)	Venezuela	20 000	0.03	99.96	0.00
31	(33)	Zimbabwe	11 900	0.02	99.98	0.00
32	(32)	Colombia	9 470	0.01	99.99	0.00
33	(34)	Tanzania	5 390	0.01	100.00	0.00
34	(35)	Chile	620	0.00	100.00	0.00
35	(36)	Cuba	410	0.00	100.00	0.00
36	(23)	Australia	170	0.00	100.00	0.00
		Total	75 370 830	100.00		HHI 2 133

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Canada	13 096 467	29.00	29.00	841.22
2	( 2)	Russia	8 890 000	19.69	48.69	387.62
3	( 3)	Belarus	7 750 000	17.16	65.86	294.58
4	( 4)	China	5 814 600	12.88	78.73	165.82
5	( 5)	Germany	2 793 326	6.19	84.92	38.27
6	( 6)	Israel	2 379 000	5.27	90.19	27.76
7	( 7)	Jordan	1 563 430	3.46	93.65	11.99
8	( 8)	Chile	891 450	1.97	95.62	3.90
9	(10)	Laos	507 600	1.12	96.75	1.26
10	( 9)	United States	480 000	1.06	97.81	1.13
11	(11)	Spain	375 779	0.83	98.64	0.69
12	(12)	Brazil	213 028	0.47	99.11	0.22
13	(13)	Uzbekistan	197 600	0.44	99.55	0.19
14	(14)	United Kingdom	110 460	0.24	99.80	0.06
15	(15)	Iran	40 000	0.09	99.89	0.01
16	(17)	Bolivia	32 600	0.07	99.96	0.01
17	(16)	Turkmenistan	19 000	0.04	100.00	0.00
		Total	45 154 340	100.00		HHI 1 775

## Salt

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	57 065 100	20.84	20.84	434.49
2	( 2)	United States	42 000 000	15.34	36.19	235.36
3	( 3)	India	26 602 000	9.72	45.90	94.42
4	( 4)	Germany	17 668 456	6.45	52.36	41.65
5	( 6)	Australia	12 574 025	4.59	56.95	21.10
6	( 5)	Canada	11 817 928	4.32	61.27	18.63
7	( 7)	Chile	8 565 307	3.13	64.40	9.79
8	(11)	Russia	8 242 000	3.01	67.41	9.06
9	( 9)	Turkey	7 843 502	2.87	70.27	8.21
10	( 8)	Mexico	7 644 755	2.79	73.06	7.80
11	(10)	Brazil	6 534 300	2.39	75.45	5.70
12	(12)	Netherlands	6 120 742	2.24	77.69	5.00
13	(13)	France	5 543 040	2.02	79.71	4.10
14	(15)	Poland	5 369 000	1.96	81.67	3.85
15	(14)	Spain	4 202 939	1.54	83.21	2.36
16	(16)	Pakistan	3 592 205	1.31	84.52	1.72
17	(18)	Bulgaria	3 300 000	1.21	85.72	1.45
18	(17)	Iran	3 083 719	1.13	86.85	1.27
19	(20)	Saudi Arabia	2 331 000	0.85	87.70	0.72
20	(19)	United Kingdom	2 320 000	0.85	88.55	0.72
21	(27)	Belarus	2 265 000	0.83	89.38	0.68
22	(21)	Ukraine	1 900 000	0.69	90.07	0.48
23	(22)	Tunisia	1 889 614	0.69	90.76	0.48
24	(23)	Bangladesh	1 651 000	0.60	91.36	0.36
25	(24)	Thailand	1 563 970	0.57	91.94	0.33
26	(28)	Italy	1 500 458	0.55	92.48	0.30
27	(29)	Romania	1 328 738	0.49	92.97	0.24

28	(33)	Argentina	1 300 000	0.47	93.44	0.23
29	(30)	Vietnam	1 287 200	0.47	93.91	0.22
30	(26)	Kazakhstan	1 231 996	0.45	94.36	0.20
31	(31)	Peru	1 175 828	0.43	94.79	0.18
32	(32)	Austria	1 117 586	0.41	95.20	0.17
33	(25)	Indonesia	1 100 000	0.40	95.60	0.16
34	(34)	Namibia	1 014 873	0.37	95.97	0.14
35	(35)	Bosnia-Herzegovina	966 358	0.35	96.33	0.12
36	(36)	Japan	855 000	0.31	96.64	0.10
37	(38)	Denmark	600 000	0.22	96.86	0.05
38	(39)	South Africa	545 942	0.20	97.06	0.04
39	(47)	Switzerland	512 700	0.19	97.25	0.04
40	(40)	Korea, North	500 000	0.18	97.43	0.03
41	(41)	Egypt	500 000	0.18	97.61	0.03
42	(42)	Venezuela	500 000	0.18	97.79	0.03
43	(44)	Botswana	499 527	0.18	97.98	0.03
44	(37)	Bahamas	368 702	0.13	98.11	0.02
45	(45)	Colombia	342 497	0.13	98.24	0.02
46	(48)	Eritrea	320 000	0.12	98.35	0.01
47	(46)	Ghana	300 000	0.11	98.46	0.01
48	(49)	Iraq	300 000	0.11	98.57	0.01
49	(43)	Morocco	295 741	0.11	98.68	0.01
50	(57)	Korea, South	280 876	0.10	98.78	0.01
51	(50)	Senegal	280 599	0.10	98.89	0.01
52	(51)	Israel	260 000	0.09	98.98	0.01
53	(55)	Greece	210 000	0.08	99.06	0.01
54	(54)	Cuba	204 600	0.07	99.13	0.01
55	(58)	Angola	182 600	0.07	99.20	0.00
56	(53)	Myanmar	161 774	0.06	99.26	0.00
57	(59)	Ethiopia	125 000	0.05	99.30	0.00
58	(52)	Sudan	121 000	0.04	99.35	0.00
59	(66)	Tanzania	112 995	0.04	99.39	0.00
60	(60)	Croatia	111 319	0.04	99.43	0.00
61	(61)	Madagascar	110 000	0.04	99.47	0.00
62	(64)	Algeria	100 000	0.04	99.51	0.00
63	(56)	Philippines	100 000	0.04	99.54	0.00
64	(62)	New Zealand	100 000	0.04	99.58	0.00
65	(65)	Turkmenistan	96 000	0.04	99.61	0.00
66	(63)	Portugal	94 778	0.03	99.65	0.00
67	(68)	Taiwan	77 297	0.03	99.68	0.00
68	(69)	Azerbaijan	71 495	0.03	99.70	0.00
69	(70)	Syria	70 000	0.03	99.73	0.00
70	(67)	Cambodia	68 682	0.03	99.75	0.00
71	(71)	Honduras	63 500	0.02	99.78	0.00
72	(72)	Sri Lanka	63 254	0.02	99.80	0.00
73	(73)	Kuwait	60 000	0.02	99.82	0.00
74	(74)	Nicaragua	55 000	0.02	99.84	0.00
75	(75)	Yemen	50 000	0.02	99.86	0.00
76	(76)	Jordan	42 359	0.02	99.88	0.00
77	(78)	Libya	40 000	0.01	99.89	0.00
78	(77)	Mozambique	34 453	0.01	99.90	0.00
79	(79)	Albania	30 000	0.01	99.91	0.00
80	(80)	El Salvador	30 000	0.01	99.92	0.00
81	(81)	Tajikistan	26 169	0.01	99.93	0.00
82	(83)	Armenia	25 948	0.01	99.94	0.00
83	(82)	Panama	23 593	0.01	99.95	0.00
84	(85)	Bolivia	21 777	0.01	99.96	0.00
85	(84)	Dominican Republic	20 000	0.01	99.97	0.00
86	(91)	Norway	13 000	0.00	99.97	0.00
87	(86)	Afghanistan	10 700	0.00	99.98	0.00
88	(87)	Oman	10 142	0.00	99.98	0.00
89	(88)	Jamaica	10 000	0.00	99.98	0.00

90	(93)	Kenya	7 099	0.00	99.99	0.00
91	(94)	Laos	6 846	0.00	99.99	0.00
92	(89)	Serbia	6 469	0.00	99.99	0.00
93	(90)	Kyrgyzstan	6 000	0.00	99.99	0.00
94	(92)	Iceland	5 000	0.00	100.00	0.00
95	(95)	Lebanon	3 000	0.00	100.00	0.00
96	(97)	Cape Verde	2 621	0.00	100.00	0.00
97	(98)	Mauritius	2 200	0.00	100.00	0.00
98	(100)	Slovenia	1 671	0.00	100.00	0.00
99	99)	Malta	1 600	0.00	100.00	0.00
100	(96)	Mongolia	1 349	0.00	100.00	0.00
101	(101)	Benin	500	0.00	100.00	0.00
Total			273 766 013	100.00		HHI 912

## Sulfur

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	15 730 000	20.48	20.48	419.26
2	( 2)	United States	8 070 000	10.50	30.98	110.35
3	( 4)	Saudi Arabia	6 600 000	8.59	39.57	73.81
4	( 5)	United Arab Emirates	5 396 000	7.02	46.60	49.34
5	( 6)	Canada	4 879 000	6.35	52.95	40.34
6	( 3)	Russia	4 690 900	6.11	59.05	37.29
7	( 7)	Kazakhstan	3 993 100	5.20	64.25	27.02
8	( 8)	India	3 681 000	4.79	69.04	22.96
9	( 9)	Japan	3 150 100	4.10	73.14	16.81
10	(13)	Qatar	2 100 000	2.73	75.88	7.47
11	(10)	Iran	2 000 000	2.60	78.48	6.78
12	(11)	Korea, South	2 000 000	2.60	81.08	6.78
13	(12)	Chile	1 655 100	2.15	83.24	4.64
14	(14)	Poland	1 058 800	1.38	84.62	1.90
15	(18)	Kuwait	959 000	1.25	85.86	1.56
16	(16)	Australia	900 000	1.17	87.04	1.37
17	(17)	Finland	737 600	0.96	88.00	0.92
18	(15)	Zambia	691 900	0.90	88.90	0.81
19	(19)	Spain	687 600	0.90	89.79	0.80
20	(26)	Italy	613 100	0.80	90.59	0.64
21	(20)	Philippines	600 000	0.78	91.37	0.61
22	(25)	Turkmenistan	590 000	0.77	92.14	0.59
23	(24)	Peru	529 900	0.69	92.83	0.48
24	(22)	Indonesia	500 000	0.65	93.48	0.42
25	(28)	France	450 000	0.59	94.07	0.34
26	(27)	Brazil	435 000	0.57	94.63	0.32
27	(23)	Bulgaria	434 500	0.57	95.20	0.32
28	(29)	Germany	382 049	0.50	95.69	0.25
29	(30)	Sweden	344 000	0.45	96.14	0.20
30	(33)	Jordan	316 540	0.41	96.55	0.17
31	(32)	Venezuela	300 000	0.39	96.94	0.15
32	(31)	Cuba	278 900	0.36	97.31	0.13
33	(35)	Ukraine	255 600	0.33	97.64	0.11
34	(36)	Greece	250 000	0.33	97.97	0.11
35	(34)	Mexico	219 439	0.29	98.25	0.08
36	(37)	Taiwan	192 228	0.25	98.50	0.06
37	(38)	Libya	130 000	0.17	98.67	0.03
38	(39)	Bahrain	130 000	0.17	98.84	0.03
39	(40)	Turkey	110 600	0.14	98.98	0.02

40	(41)	United Kingdom	110 000	0.14	99.13	0.02
41	(42)	Norway	100 000	0.13	99.26	0.02
42	(44)	Oman	87 765	0.11	99.37	0.01
43	(45)	Egypt	80 000	0.10	99.48	0.01
44	(48)	Iraq	74 000	0.10	99.57	0.01
45	(46)	Lithuania	72 990	0.10	99.67	0.01
46	(47)	Colombia	70 000	0.09	99.76	0.01
47	(43)	Namibia	65 500	0.09	99.84	0.01
48	(21)	South Africa	61 929	0.08	99.92	0.01
49	(49)	Pakistan	19 398	0.03	99.95	0.00
50	(50)	Armenia	14 100	0.02	99.97	0.00
51	(51)	Korea, North	10 000	0.01	99.98	0.00
52	(53)	Algeria	6 000	0.01	99.99	0.00
53	(52)	Austria	4 755	0.01	99.99	0.00
54	(54)	Denmark	4 090	0.01	100.00	0.00
		Total	76 822 483	100.00		HHI 835

## Talc

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	India	1 575 000	20.47	20.47	418.90
2	( 2)	China	1 400 000	18.19	38.66	330.98
3	( 3)	Brazil	660 000	8.58	47.24	73.56
4	( 4)	United States	577 000	7.50	54.73	56.22
5	(16)	Afghanistan	441 372	5.74	60.47	32.90
6	( 6)	Korea, South	355 104	4.61	65.08	21.29
7	( 5)	France	350 000	4.55	69.63	20.69
8	( 7)	Finland	296 833	3.86	73.49	14.88
9	(11)	Pakistan	289 423	3.76	77.25	14.15
10	(17)	South Africa	270 944	3.52	80.77	12.40
11	(12)	Turkey	220 350	2.86	83.64	8.20
12	( 8)	Italy	165 000	2.14	85.78	4.60
13	( 9)	Japan	160 000	2.08	87.86	4.32
14	(13)	Austria	157 493	2.05	89.91	4.19
15	(10)	Canada	153 000	1.99	91.89	3.95
16	(18)	Slovakia	99 900	1.30	93.19	1.69
17	(14)	Australia	90 000	1.17	94.36	1.37
18	(19)	Iran	74 537	0.97	95.33	0.94
19	(27)	Nigeria	65 061	0.85	96.18	0.71
20	(20)	Saudi Arabia	64 000	0.83	97.01	0.69
21	(22)	Peru	50 355	0.65	97.66	0.43
22	(15)	Russia	50 000	0.65	98.31	0.42
23	(21)	Thailand	31 950	0.42	98.73	0.17
24	(23)	Korea, North	30 000	0.39	99.12	0.15
25	(24)	Mexico	29 000	0.38	99.49	0.14
26	(25)	Egypt	15 000	0.19	99.69	0.04
27	(26)	Portugal	8 277	0.11	99.80	0.01
28	(**)	Sudan	4 500	0.06	99.85	0.00
29	(28)	Nepal	4 450	0.06	99.91	0.00
30	(29)	Guatemala	2 111	0.03	99.94	0.00
31	(31)	Argentina	1 800	0.02	99.96	0.00
32	(32)	United Kingdom	1 500	0.02	99.98	0.00

33	(33)	Bhutan	678	0.01	99.99	0.00
34	(35)	Uruguay	570	0.01	100.00	0.00
35	(34)	Colombia	45	0.00	100.00	0.00
36	(**)	Taiwan	43	0.00	100.00	0.00
		Total	7 695 296	100.00		HHI 1 028

## Vermiculite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	South Africa	217 109	42.08	42.08	1 770.43
2	( 2)	United States	100 000	19.38	61.46	375.60
3	( 3)	Brazil	70 500	13.66	75.12	186.68
4	( 4)	China	40 000	7.75	82.87	60.10
5	( 5)	Russia	39 804	7.71	90.59	59.51
6	( 6)	Zimbabwe	27 713	5.37	95.96	28.85
7	( 8)	Uganda	14 000	2.71	98.67	7.36
8	( 7)	Turkey	3 300	0.64	99.31	0.41
9	( 9)	India	3 061	0.59	99.90	0.35
10	(**)	Kenya	400	0.08	99.98	0.01
11	(10)	Mexico	100	0.02	100.00	0.00
		Total	515 987	100.00		HHI 2 489

## Zircon

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Australia	569 000	39.08	39.08	1 527.08
2	( 2)	South Africa	301 000	20.67	59.75	427.34
3	( 3)	China	140 000	9.61	69.36	92.45
4	( 4)	Mozambique	123 011	8.45	77.81	71.37
5	( 5)	Senegal	90 760	6.23	84.05	38.85
6	( 6)	Indonesia	54 630	3.75	87.80	14.08
7	(13)	Vietnam	30 400	2.09	89.89	4.36
8	( 8)	United States	30 000	2.06	91.95	4.25
9	( 7)	Kenya	28 933	1.99	93.93	3.95
10	(11)	Ukraine	27 000	1.85	95.79	3.44
11	( 9)	Madagascar	23 100	1.59	97.37	2.52
12	(10)	India	16 000	1.10	98.47	1.21
13	(14)	Russia	6 700	0.46	98.93	0.21
14	(12)	Brazil	6 482	0.45	99.38	0.20
15	(15)	Sierra Leone	4 100	0.28	99.66	0.08
16	(17)	Nigeria	3 033	0.21	99.87	0.04
17	(18)	Malaysia	1 518	0.10	99.97	0.01
18	(16)	Sri Lanka	400	0.03	100.00	0.00
		Total	1 456 067	100.00		HHI 2 191

## 6.5.5 Mineral Fuels

### Steam Coal

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	3 152 948 000	52.84	52.84	2 791.77
2	( 2)	India	726 488 000	12.17	65.01	148.22
3	( 3)	Indonesia	564 815 700	9.47	74.48	89.59
4	( 4)	United States	429 228 900	7.19	81.67	51.74
5	( 7)	Russia	261 646 600	4.38	86.05	19.23
6	( 5)	Australia	248 001 000	4.16	90.21	17.27
7	( 6)	South Africa	225 804 400	3.78	93.99	14.32
8	( 8)	Kazakhstan	102 638 200	1.72	95.71	2.96
9	(10)	Vietnam	48 308 000	0.81	96.52	0.66
10	( 9)	Colombia	47 072 614	0.79	97.31	0.62
11	(11)	Poland	42 421 560	0.71	98.02	0.51
12	(13)	Ukraine	22 153 000	0.37	98.40	0.14
13	(12)	Korea, North	20 000 000	0.34	98.73	0.11
14	(14)	Philippines	14 378 268	0.24	98.97	0.06
15	(15)	Canada	12 195 290	0.20	99.18	0.04
16	(16)	Pakistan	9 229 377	0.15	99.33	0.02
17	(18)	Mozambique	5 346 781	0.09	99.42	0.01
18	(20)	Brazil	4 768 003	0.08	99.50	0.01
19	(17)	Mongolia	4 077 410	0.07	99.57	0.00
20	(21)	Malaysia	3 115 316	0.05	99.62	0.00
21	(19)	Mexico	2 831 000	0.05	99.67	0.00
22	(22)	Zimbabwe	2 759 100	0.05	99.71	0.00
23	(24)	Tajikistan	2 080 000	0.03	99.75	0.00
24	(25)	Botswana	2 021 218	0.03	99.78	0.00
25	(26)	New Zealand	1 448 565	0.02	99.81	0.00
26	(32)	Nigeria	1 444 139	0.02	99.83	0.00
27	(27)	Myanmar	994 617	0.02	99.85	0.00
28	(33)	Tanzania	976 319	0.02	99.86	0.00
29	(29)	Korea, South	897 900	0.02	99.88	0.00
30	(31)	Bangladesh	753 973	0.01	99.89	0.00
31	(30)	Czech Republic	739 460	0.01	99.90	0.00
32	(28)	United Kingdom	717 080	0.01	99.92	0.00
33	(38)	Laos	698 521	0.01	99.93	0.00
34	(37)	Zambia	663 345	0.01	99.94	0.00
35	(36)	Iran	650 000	0.01	99.95	0.00
36	(35)	Kyrgyzstan	571 500	0.01	99.96	0.00
37	(23)	Turkey	520 270	0.01	99.97	0.00
38	(48)	Afghanistan	340 800	0.01	99.97	0.00
39	(40)	Uzbekistan	258 100	0.00	99.98	0.00
40	(43)	Albania	242 425	0.00	99.98	0.00
41	(34)	Venezuela	166 842	0.00	99.99	0.00
42	(42)	Eswatini	162 681	0.00	99.99	0.00
43	(45)	Georgia	147 900	0.00	99.99	0.00
44	(44)	Peru	146 982	0.00	99.99	0.00
45	(47)	Norway	121 000	0.00	99.99	0.00
46	(46)	Bhutan	111 545	0.00	100.00	0.00
47	(39)	Niger	105 760	0.00	100.00	0.00



48	(49)	Malawi	30 251	0.00	100.00	0.00
49	(50)	Argentina	25 300	0.00	100.00	0.00
50	(41)	Chile	18 541	0.00	100.00	0.00
51	(51)	Nepal	10 714	0.00	100.00	0.00
Total			5 967 292 267	100.00		HHI 3 137

## Coking Coal

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	China	572 061 400	54.16	54.16	2 933.70
2	( 2)	Australia	170 601 000	16.15	70.32	260.91
3	( 3)	Russia	99 800 000	9.45	79.77	89.29
4	( 4)	United States	56 084 900	5.31	85.08	28.20
5	( 5)	India	51 702 000	4.90	89.97	23.96
6	( 7)	Canada	26 972 900	2.55	92.52	6.52
7	( 6)	Mongolia	19 518 500	1.85	94.37	3.42
8	( 8)	Poland	12 584 820	1.19	95.56	1.42
9	( 9)	Kazakhstan	8 751 800	0.83	96.39	0.69
10	(10)	Ukraine	7 234 000	0.68	97.08	0.47
11	(11)	Colombia	5 817 960	0.55	97.63	0.30
12	(12)	Mozambique	5 732 902	0.54	98.17	0.29
13	(13)	Indonesia	4 356 640	0.41	98.58	0.17
14	(14)	Mexico	4 165 000	0.39	98.98	0.16
15	(15)	Iran	3 650 000	0.35	99.32	0.12
16	(16)	South Africa	2 730 418	0.26	99.58	0.07
17	(17)	Czech Republic	1 734 896	0.16	99.75	0.03
18	(18)	New Zealand	1 134 310	0.11	99.85	0.01
19	(19)	Turkey	716 000	0.07	99.92	0.00
20	(21)	Zimbabwe	486 900	0.05	99.97	0.00
21	(20)	United Kingdom	336 740	0.03	100.00	0.00
Total			1 056 173 086	100.00		HHI 3 350

## Lignite

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Germany	126 256 594	18.38	18.38	337.64
2	( 3)	Turkey	84 531 660	12.30	30.68	151.35
3	( 2)	Russia	75 200 000	10.94	41.62	119.78
4	( 4)	Poland	52 355 510	7.62	49.24	58.06
5	( 8)	India	47 490 000	6.91	56.15	47.77
6	( 5)	United States	42 968 700	6.25	62.41	39.11
7	( 6)	Australia	41 622 000	6.06	68.46	36.69
8	( 7)	Serbia	36 417 513	5.30	73.76	28.09
9	( 9)	Czech Republic	29 278 000	4.26	78.03	18.16
10	(10)	Bulgaria	28 410 900	4.13	82.16	17.10
11	(11)	Romania	17 733 034	2.58	84.74	6.66
12	(15)	Thailand	14 221 573	2.07	86.81	4.28
13	(12)	Laos	13 618 072	1.98	88.79	3.93
14	(14)	Bosnia-Herzegovina	12 802 517	1.86	90.66	3.47

15	(13)	Greece	12 081 578	1.76	92.41	3.09
16	(16)	Kosovo	8 535 436	1.24	93.66	1.54
17	(17)	Canada	8 293 554	1.21	94.86	1.46
18	(18)	Mongolia	5 309 755	0.77	95.64	0.60
19	(19)	Hungary	4 987 686	0.73	96.36	0.53
20	(20)	Kazakhstan	4 828 700	0.70	97.07	0.49
21	(22)	Uzbekistan	4 781 193	0.70	97.76	0.48
22	(21)	North Macedonia	4 758 504	0.69	98.45	0.48
23	(23)	Slovenia	2 807 476	0.41	98.86	0.17
24	(25)	Kyrgyzstan	2 418 400	0.35	99.21	0.12
25	(24)	Brazil	1 896 525	0.28	99.49	0.08
26	(26)	Montenegro	1 548 612	0.23	99.72	0.05
27	(27)	Slovakia	1 080 562	0.16	99.87	0.02
28	(28)	Myanmar	589 360	0.09	99.96	0.01
29	(29)	New Zealand	284 735	0.04	100.00	0.00
		Total	687 108 149	100.00		HHI 881

## Natural Gas

Rank 2021	Rank 2020	Country	Production 2021 Mio m <sup>3</sup>	Share in %	Share cum. %	Share HHI
1	( 1)	United States	977 440	23.53	23.53	553.85
2	( 2)	Russia	757 700	18.24	41.78	332.82
3	( 3)	Iran	256 650	6.18	47.96	38.18
4	( 4)	China	207 584	5.00	52.95	24.98
5	( 5)	Canada	173 515	4.18	57.13	17.45
6	( 6)	Qatar	169 152	4.07	61.21	16.59
7	( 7)	Australia	156 774	3.77	64.98	14.25
8	( 8)	Saudi Arabia	120 485	2.90	67.88	8.42
9	( 9)	Norway	115 178	2.77	70.65	7.69
10	(10)	Algeria	105 037	2.53	73.18	6.40
11	(11)	Turkmenistan	83 773	2.02	75.20	4.07
12	(14)	Egypt	67 799	1.63	76.83	2.66
13	(12)	Malaysia	67 520	1.63	78.46	2.64
14	(13)	Indonesia	58 960	1.42	79.88	2.02
15	(15)	United Arab Emirates	56 994	1.37	81.25	1.88
16	(17)	Uzbekistan	53 802	1.30	82.55	1.68
17	(16)	Nigeria	48 570	1.17	83.71	1.37
18	(18)	Argentina	40 940	0.99	84.70	0.97
19	(21)	Oman	38 400	0.92	85.62	0.85
20	(20)	Pakistan	36 224	0.87	86.50	0.76
21	(26)	India	33 131	0.80	87.29	0.64
22	(22)	Thailand	33 117	0.80	88.09	0.64
23	(27)	Azerbaijan	32 578	0.78	88.88	0.62
24	(19)	United Kingdom	32 568	0.78	89.66	0.61
25	(23)	Kazakhstan	29 400	0.71	90.37	0.50
26	(25)	Mexico	27 170	0.65	91.02	0.43
27	(24)	Trinidad and Tobago	25 425	0.61	91.63	0.37
28	(28)	Brazil	25 382	0.61	92.25	0.37
29	(29)	Bangladesh	25 170	0.61	92.85	0.37
30	(31)	Venezuela	23 977	0.58	93.43	0.33
31	(30)	Netherlands	20 438	0.49	93.92	0.24
32	(32)	Ukraine	19 757	0.48	94.40	0.23
33	(33)	Myanmar	17 680	0.43	94.82	0.18
34	(36)	Bahrain	17 590	0.42	95.25	0.18
35	(35)	Kuwait	17 400	0.42	95.67	0.18
36	(37)	Bolivia	16 967	0.41	96.07	0.17

37	(38)	Israel	16 623	0.40	96.47	0.16
38	(34)	Libya	15 236	0.37	96.84	0.13
39	(41)	Colombia	12 110	0.29	97.13	0.09
40	(40)	Peru	11 375	0.27	97.41	0.08
41	(39)	Brunei	11 178	0.27	97.68	0.07
42	(45)	Iraq	9 355	0.23	97.90	0.05
43	(43)	Romania	8 938	0.22	98.12	0.05
44	(42)	Vietnam	7 460	0.18	98.30	0.03
45	(46)	Equatorial Guinea	7 047	0.17	98.47	0.03
46	(44)	Angola	5 886	0.14	98.61	0.02
47	(47)	Germany	5 731	0.14	98.74	0.02
48	(48)	Poland	4 860	0.12	98.86	0.01
49	(49)	Mozambique	4 593	0.11	98.97	0.01
50	(50)	New Zealand	3 945	0.09	99.07	0.01
51	(52)	Philippines	3 429	0.08	99.15	0.01
52	(53)	Papua New Guinea	3 400	0.08	99.23	0.01
53	(51)	Italy	3 343	0.08	99.31	0.01
54	(54)	Syria	3 070	0.07	99.39	0.01
55	(55)	Ghana	3 020	0.07	99.46	0.01
56	(57)	Cote d'Ivoire	2 373	0.06	99.52	0.00
57	(56)	Japan	2 305	0.06	99.57	0.00
58	(59)	Tunisia	2 240	0.05	99.63	0.00
59	(58)	Cameroon	2 090	0.05	99.68	0.00
60	(62)	Tanzania	1 838	0.04	99.72	0.00
61	(61)	Hungary	1 526	0.04	99.76	0.00
62	(60)	Ireland	1 400	0.03	99.79	0.00
63	(63)	Denmark	1 352	0.03	99.82	0.00
64	(64)	Chile	1 275	0.03	99.85	0.00
65	(67)	Congo, Rep.	1 000	0.02	99.88	0.00
66	(66)	Croatia	746	0.02	99.90	0.00
67	(68)	Austria	654	0.02	99.91	0.00
68	(65)	Cuba	652	0.02	99.93	0.00
69	(70)	Gabon	454	0.01	99.94	0.00
70	(71)	Turkey	415	0.01	99.95	0.00
71	(72)	Serbia	362	0.01	99.96	0.00
72	(73)	Ecuador	269	0.01	99.96	0.00
73	(74)	Belarus	229	0.01	99.97	0.00
74	(77)	Jordan	184	0.00	99.97	0.00
75	(82)	Afghanistan	153	0.00	99.98	0.00
76	(76)	Czech Republic	153	0.00	99.98	0.00
77	(78)	Yemen	130	0.00	99.98	0.00
78	(80)	Morocco	110	0.00	99.99	0.00
79	(79)	Taiwan	110	0.00	99.99	0.00
80	(**)	Guatemala	72	0.00	99.99	0.00
81	(81)	Slovakia	71	0.00	99.99	0.00
82	(84)	Albania	54	0.00	99.99	0.00
83	(75)	Korea, South	53	0.00	100.00	0.00
84	(69)	South Africa	44	0.00	100.00	0.00
85	(85)	Spain	38	0.00	100.00	0.00
86	(83)	Bulgaria	31	0.00	100.00	0.00
87	(87)	France	22	0.00	100.00	0.00
88	(86)	Kyrgyzstan	22	0.00	100.00	0.00
89	(90)	Georgia	16	0.00	100.00	0.00
90	(89)	Barbados	11	0.00	100.00	0.00
91	(92)	Slovenia	6	0.00	100.00	0.00
92	(88)	Senegal	6	0.00	100.00	0.00
93	(91)	Greece	4	0.00	100.00	0.00
94	(93)	Tajikistan	1	0.00	100.00	0.00
		<b>Total</b>	<b>4 153 317</b>	<b>100.00</b>		<b>HHI 1 046</b>

## Petroleum

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	United States	781 654 600	18.39	18.39	338.21
2	( 3)	Russia	524 050 000	12.33	30.72	152.02
3	( 2)	Saudi Arabia	515 878 200	12.14	42.86	147.32
4	( 4)	Canada	266 190 400	6.26	49.12	39.22
5	( 5)	Iraq	200 829 370	4.73	53.85	22.33
6	( 6)	China	198 881 100	4.68	58.52	21.90
7	( 9)	Iran	167 658 090	3.94	62.47	15.56
8	( 7)	United Arab Emirates	164 380 590	3.87	66.34	14.96
9	( 8)	Brazil	149 154 800	3.51	69.85	12.32
10	(10)	Kuwait	120 264 800	2.83	72.68	8.01
11	(12)	Norway	95 254 000	2.24	74.92	5.02
12	(11)	Mexico	94 785 920	2.23	77.15	4.97
13	(14)	Kazakhstan	85 877 800	2.02	79.17	4.08
14	(13)	Nigeria	80 639 590	1.90	81.06	3.60
15	(15)	Qatar	75 847 230	1.78	82.85	3.18
16	(30)	Libya	60 113 100	1.41	84.26	2.00
17	(17)	Algeria	58 200 000	1.37	85.63	1.88
18	(16)	Angola	54 270 690	1.28	86.91	1.63
19	(19)	Oman	48 353 500	1.14	88.05	1.29
20	(18)	United Kingdom	41 159 050	0.97	89.02	0.94
21	(20)	Colombia	36 660 230	0.86	89.88	0.74
22	(22)	Azerbaijan	34 580 300	0.81	90.69	0.66
23	(23)	Venezuela	33 408 500	0.79	91.48	0.62
24	(21)	Indonesia	32 786 100	0.77	92.25	0.60
25	(25)	India	29 688 480	0.70	92.95	0.49
26	(24)	Egypt	29 601 360	0.70	93.64	0.49
27	(27)	Argentina	25 565 200	0.60	94.25	0.36
28	(26)	Malaysia	25 467 600	0.60	94.85	0.36
29	(28)	Ecuador	23 543 000	0.55	95.40	0.31
30	(29)	Australia	21 782 900	0.51	95.91	0.26
31	(31)	Congo, Rep.	13 446 000	0.32	96.23	0.10
32	(37)	Turkmenistan	10 961 000	0.26	96.49	0.07
33	(32)	Gabon	10 040 000	0.24	96.72	0.06
34	(34)	Bahrain	9 608 230	0.23	96.95	0.05
35	(35)	Vietnam	9 100 000	0.21	97.16	0.05
36	(33)	Thailand	8 820 540	0.21	97.37	0.04
37	(36)	Ghana	7 864 300	0.19	97.55	0.03
38	(38)	South Sudan	7 515 700	0.18	97.73	0.03
39	(41)	Peru	5 949 800	0.14	97.87	0.02
40	(39)	Equatorial Guinea	5 919 365	0.14	98.01	0.02
41	(45)	Guyana	5 820 870	0.14	98.15	0.02
42	(40)	Chad	5 799 300	0.14	98.28	0.02
43	(42)	Brunei	5 308 680	0.12	98.41	0.02
44	(43)	Italy	4 922 000	0.12	98.52	0.01
45	(57)	Syria	4 598 420	0.11	98.63	0.01
46	(44)	Pakistan	3 760 980	0.09	98.72	0.01
47	(47)	Trinidad and Tobago	3 652 900	0.09	98.81	0.01
48	(48)	Yemen	3 544 750	0.08	98.89	0.01
49	(46)	Cameroon	3 493 100	0.08	98.97	0.01
50	(51)	Turkey	3 441 659	0.08	99.05	0.01
51	(50)	Romania	3 319 000	0.08	99.13	0.01
52	(49)	Denmark	3 277 800	0.08	99.21	0.01
53	(52)	Sudan	2 605 000	0.06	99.27	0.00
54	(53)	Ukraine	2 455 400	0.06	99.33	0.00
55	(54)	Cuba	2 200 000	0.05	99.38	0.00

56	(60)	Tunisia	2 129 640	0.05	99.43	0.00
57	(55)	Uzbekistan	2 098 400	0.05	99.48	0.00
58	(56)	Bolivia	2 032 870	0.05	99.53	0.00
59	(58)	Papua New Guinea	1 842 600	0.04	99.57	0.00
60	(59)	Germany	1 805 932	0.04	99.61	0.00
61	(61)	Belarus	1 737 000	0.04	99.65	0.00
62	(62)	Cote d'Ivoire	1 196 700	0.03	99.68	0.00
63	(63)	Congo, D.R.	1 170 000	0.03	99.71	0.00
64	(64)	Hungary	1 087 000	0.03	99.74	0.00
65	(69)	Niger	873 100	0.02	99.76	0.00
66	(67)	Netherlands	861 100	0.02	99.78	0.00
67	(66)	Poland	858 030	0.02	99.80	0.00
68	(65)	New Zealand	840 780	0.02	99.82	0.00
69	(68)	Serbia	835 319	0.02	99.84	0.00
70	(70)	Suriname	818 400	0.02	99.85	0.00
71	(71)	Albania	712 000	0.02	99.87	0.00
72	(72)	France	647 830	0.02	99.89	0.00
73	(77)	Mongolia	636 600	0.01	99.90	0.00
74	(73)	Croatia	604 500	0.01	99.92	0.00
75	(74)	Austria	571 428	0.01	99.93	0.00
76	(76)	Philippines	486 800	0.01	99.94	0.00
77	(78)	Bangladesh	463 590	0.01	99.95	0.00
78	(79)	Japan	441 200	0.01	99.96	0.00
79	(80)	Guatemala	355 500	0.01	99.97	0.00
80	(75)	Myanmar	309 800	0.01	99.98	0.00
81	(81)	Kyrgyzstan	275 600	0.01	99.98	0.00
82	(82)	Israel	164 765	0.00	99.99	0.00
83	(83)	Chile	109 980	0.00	99.99	0.00
84	(84)	Czech Republic	83 000	0.00	99.99	0.00
85	(85)	Greece	58 750	0.00	99.99	0.00
86	(87)	Mozambique	36 330	0.00	100.00	0.00
87	(90)	Georgia	35 500	0.00	100.00	0.00
88	(89)	Lithuania	28 920	0.00	100.00	0.00
89	(93)	Tajikistan	24 635	0.00	100.00	0.00
90	(94)	Barbados	20 770	0.00	100.00	0.00
91	(95)	Bulgaria	20 086	0.00	100.00	0.00
92	(92)	Senegal	20 000	0.00	100.00	0.00
93	(88)	South Africa	15 633	0.00	100.00	0.00
94	(100)	Jordan	14 300	0.00	100.00	0.00
95	(99)	Slovakia	6 130	0.00	100.00	0.00
96	(91)	Spain	5 785	0.00	100.00	0.00
97	(97)	Moldova	4 972	0.00	100.00	0.00
98	(96)	Korea, South	4 800	0.00	100.00	0.00
99	(98)	Morocco	3 246	0.00	100.00	0.00
100	(101)	Taiwan	2 110	0.00	100.00	0.00
101	(102)	Slovenia	296	0.00	100.00	0.00
		Total	4 250 303 021	100.00		HHI 806

### Oil Sands (part of Petroleum)

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Canada	167 022 400	91.76	91.76	8 419.76
2	( 2)	Venezuela	15 000 000	8.24	100.00	67.91
		Total	182 022 400	100.00		HHI 8 488

## Oil Shales

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Estonia	11 743 000	92.65	92.65	8 583.69
2	( 2)	Germany	442 886	3.49	96.14	12.21
3	( 3)	Israel	430 840	3.40	99.54	11.55
4	( 4)	Bulgaria	56 000	0.44	99.98	0.20
5	( 5)	France	2 000	0.02	100.00	0.00
6	( 6)	Austria	100	0.00	100.00	0.00
		Total	12 674 826	100.00		HHI 8 608

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

Rank 2021	Rank 2020	Country	Production 2021 metr. t	Share in %	Share cum. %	Share HHI
1	( 1)	Kazakhstan	25 729	45.82	45.82	2 099.27
2	( 3)	Namibia	6 784	12.08	57.90	145.95
3	( 4)	Canada	5 443	9.69	67.59	93.95
4	( 2)	Australia	4 474	7.97	75.56	63.48
5	( 5)	Uzbekistan	4 158	7.40	82.96	54.83
6	( 7)	Russia	3 107	5.53	88.50	30.61
7	( 6)	Niger	2 691	4.79	93.29	22.96
8	( 8)	China	2 223	3.96	97.25	15.67
9	(10)	India	725	1.29	98.54	1.67
10	( 9)	Ukraine	536	0.95	99.49	0.91
11	(11)	South Africa	153	0.27	99.76	0.07
12	(12)	Pakistan	53	0.09	99.86	0.01
13	(14)	Brazil	34	0.06	99.92	0.00
14	(13)	Czech Republic	32	0.06	99.98	0.00
15	(16)	United States	9	0.02	99.99	0.00
16	(17)	Mongolia	4	0.01	100.00	0.00
		Total	56 155	100.00		HHI 2 529



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

### Afghanistan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	2 000	2 000	2 000	2 000	5 300	165.00	165.00
Fluorspar	(t)	7 522	10 000	50 000	10 000	10 000	32.94	0.00
Gypsum	(t)	40 000	36 161	24 682	21 779	16 349	-59.13	-24.93
Salt	(t)	75 579	47 944	41 157	12 015	10 700	-85.84	-10.94
Talc	(t)	389 825	356 789	345 052	95 923	441 372	13.22	360.13
Steam Coal	(t)	2 191 400	2 444 600	1 604 700	56 620	340 800	-84.45	501.91
Nat. Gas	(Mio m <sup>3</sup> )	156	153	146	59	153	-1.92	159.32
Total	(t)	2 831 126	3 019 894	2 184 391	245 537	946 921		

### Albania

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	273 300	322 100	357 200	212 650	225 200	-17.60	5.90
Nickel	(t)	5 760	4 200	2 960	3 760	3 720	-35.42	-1.06
Copper	(t)	0	2 515	5 900	3 070	5 690		85.34
Gypsum	(t)	104 120	102 016	106 070	111 880	116 295	11.69	3.95
Salt	(t)	25 500	31 500	30 000	30 000	30 000	17.65	0.00
Steam Coal	(t)	138 800	297 530	95 380	151 231	242 425	74.66	60.30
Nat. Gas	(Mio m <sup>3</sup> )	91	82	71	55	54	-40.66	-1.82
Petroleum	(t)	958 940	910 670	1 005 090	758 170	712 000	-25.75	-6.09
Total	(t)	1 579 220	1 736 131	1 659 400	1 314 761	1 378 530		

### Algeria

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	268 400	381 200	409 900	406 600	416 000	54.99	2.31
Zinc	(t)	350	500	500	1 000	500	42.86	-50.00
Gold	(kg)	137	286	70	58	71	-48.18	22.41
Silver	(kg)	25	30	30	20	12	-52.00	-40.00
Baryte	(t)	29 159	39 426	31 138	32 940	33 000	13.17	0.18
Bentonite	(t)	35 600	36 000	36 700	34 200	36 000	1.12	5.26
Diatomite	(t)	2 439	2 468	2 437	3 040	3 000	23.00	-1.32

**Abbreviations:** see Definitions



Feldspar	(t)	170 000	170 000	170 000	170 000	170 000	0.00	0.00
Gypsum	(t)	2 200 000	2 200 000	2 200 000	2 200 000	2 500 000	13.64	13.64
Kaolin	(t)	100 000	100 000	100 000	100 000	120 000	20.00	20.00
Phosphates	(t)	378 100	409 400	455 100	409 900	612 000	61.86	49.30
Salt	(t)	165 000	106 200	100 800	95 100	100 000	-39.39	5.15
Sulfur	(t)	6 000	6 000	6 000	6 000	6 000	0.00	0.00
Nat. Gas	(Mio m <sup>3</sup> )	96 599	97 467	89 983	84 597	105 037	8.74	24.16
Petroleum	(t)	66 667 000	65 331 000	64 330 000	57 535 000	58 200 000	-12.70	1.16
Total	(t)	147 301 248	146 755 794	139 828 975	128 671 380	146 226 100		

## Angola

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)				0	37 610	.	.
Gold	(kg)		0	23	59	35	.	-40.68
Diam. (Gem)	(ct)	8 494 920	8 490 500	8 209 365	7 118 240	7 850 760	-7.58	10.29
Diam. (Ind)	(ct)	943 880	943 390	912 150	790 920	872 310	-7.58	10.29
Gypsum	(t)	32 000	32 000	32 000	32 000	50 000	56.25	56.25
Salt	(t)	101 000	110 000	109 000	164 400	182 600	80.79	11.07
Nat. Gas	(Mio m <sup>3</sup> )	5 800	6 490	6 800	7 550	5 886	1.48	-22.04
Petroleum	(t)	78 578 410	71 284 690	66 171 070	61 452 090	54 270 690	-30.93	-11.69
Total	(t)	83 351 412	76 618 692	71 752 072	67 688 491	59 249 702		

## Argentina

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	28 400	40 560	0	0	0	-100.00	.
Molybdenum	(t)	651	364	0	0	0	-100.00	.
Aluminium	(t)	431 239	439 600	438 434	309 804	338 239	-21.57	9.18
Cadmium	(t)	96	74	80	46	0	-100.00	-100.00
Copper	(t)	33 303	17 435	0	0	0	-100.00	.
Lead	(t)	40 135	28 260	42 957	23 008	17 098	-57.40	-25.69
Lithium	(t)	12 360	13 810	13 670	12 620	12 870	4.13	1.98
Mercury	(t)	54	50	50	0	0	-100.00	.
Zinc	(t)	23 392	22 050	19 462	11 320	6 188	-73.55	-45.34
Gold	(kg)	60 956	58 397	53 125	34 936	37 280	-38.84	6.71
Silver	(kg)	997 961	1 023 768	1 070 670	767 087	842 600	-15.57	9.84
Asbestos	(t)	26	0	0	0	0	-100.00	.
Baryte	(t)	15 553	7 225	3 898	0	0	-100.00	.
Bentonite	(t)	156 750	184 969	120 000	98 000	133 235	-15.00	35.95
Boron	(t)	129 918	71 212	181 818	134 604	188 870	45.38	40.32
Diatomite	(t)	70 419	72 490	94 610	98 575	156 342	122.02	58.60
Feldspar	(t)	154 770	124 500	10 000	32 000	32 000	-79.32	0.00
Fluorspar	(t)	13 696	7 924	1 500	48 000	48 000	250.47	0.00
Gypsum	(t)	1 275 608	897 217	761 013	499 092	690 000	-45.91	38.25
Kaolin	(t)	19 940	17 000	11 853	20 628	25 000	25.38	21.19

Abbreviations: see Definitions

Perlite	(t)	19 924	18 794	1 850	13 176	18 016	-9.58	36.73
Salt	(t)	1 929 065	1 784 020	1 566 600	1 013 400	1 300 000	-32.61	28.28
Talc	(t)	15 330	13 072	10 000	2 304	1 800	-88.26	-21.88
Steam Coal	(t)	37 713	81 993	154 782	24 800	25 300	-32.91	2.02
Nat. Gas (Mio m <sup>3</sup> )		39 740	40 930	43 220	39 570	40 940	3.02	3.46
Petroleum	(t)	23 879 000	24 369 600	25 323 400	23 996 600	25 565 200	7.06	6.54
Total	(t)	60 080 401	60 957 301	63 333 101	57 994 779	61 311 038		

## Armenia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Molybdenum	(t)	5 038	5 422	7 137	11 909	10 611	110.62	-10.90
Bismuth	(t)	1	0	0	0	0	-100.00	.
Copper	(t)	95 793	68 928	91 214	83 291	79 970	-16.52	-3.99
Rhenium	(kg)	260	280	310	260	170	-34.62	-34.62
Selenium	(t)	1	0	0	0	0	-100.00	.
Zinc	(t)	6 070	6 946	7 162	8 684	7 706	26.95	-11.26
Gold	(kg)	4 670	4 967	5 825	5 284	3 714	-20.47	-29.71
Silver	(kg)	17 200	16 700	17 922	19 493	19 480	13.26	-0.07
Bentonite	(t)	24 712	0	0	0	0	-100.00	.
Diatomite	(t)	23 465	0	0	0	0	-100.00	.
Gypsum	(t)	14 336	20 387	22 907	28 508	26 885	87.53	-5.69
Perlite	(t)	14 036	51 222	80 676	104 410	168 242	1 098.65	61.14
Salt	(t)	137 236	155 393	56 685	24 401	25 948	-81.09	6.34
Sulfur	(t)	8 100	10 500	10 500	11 500	14 100	74.07	22.61
Total	(t)	328 810	318 820	276 305	272 727	333 485		

## Australia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	548 297 062	560 054 570	567 957 086	568 384 644	571 113 897	4.16	0.48
Cobalt	(t)	5 034	4 878	5 741	5 626	5 228	3.85	-7.07
Manganese	(t)	2 879 010	3 514 320	3 259 200	3 356 030	3 278 840	13.89	-2.30
Nickel	(t)	185 466	160 022	158 751	169 344	150 876	-18.65	-10.91
Tantalum	(t)	20	40	80	50	70	250.00	40.00
Titanium	(t)	993 000	875 250	780 465	830 800	624 100	-37.15	-24.88
Tungsten	(t)	5	10	30	100	160	3 100.00	60.00
Aluminium	(t)	1 487 555	1 574 239	1 569 619	1 583 400	1 558 529	4.77	-1.57
Antimony	(t)	3 131	2 173	2 032	3 903	3 380	7.95	-13.40
Bauxite	(t)	89 420 589	95 947 593	105 543 787	103 626 811	103 266 404	15.48	-0.35
Copper	(t)	849 121	910 896	925 157	868 019	795 955	-6.26	-8.30
Lead	(t)	395 190	446 571	500 985	494 271	485 487	22.85	-1.78
Lithium	(t)	98 650	115 200	105 700	89 300	113 600	15.15	27.21
Rare Earths	(t)	17 264	18 556	17 660	19 440	21 970	27.26	13.01
Tin	(t)	7 402	6 871	7 738	8 118	8 772	18.51	8.06
Zinc	(t)	852 164	1 146 781	1 337 321	1 314 910	1 315 160	54.33	0.02

Abbreviations: see Definitions

Gold	(kg)	292 022	313 028	326 304	327 952	307 170	5.19	-6.34
Palladium	(kg)	610	430	390	420	380	-37.70	-9.52
Platinum	(kg)	155	110	95	100	90	-41.94	-10.00
Silver	(kg)	1 120 175	1 254 480	1 325 089	1 337 344	1 329 718	18.71	-0.57
Baryte	(t)	8 958	6 535	1 982	0	1 127	-87.42	.
Bentonite	(t)	68 000	87 330	56 000	42 713	46 658	-31.39	9.24
Diam. (Gem)	(ct)	342 690	280 160	243 090	199 600	0	-100.00	-100.00
Diam. (Ind)	(ct)	16 792 040	13 727 890	11 911 450	9 780 400	0	-100.00	-100.00
Diatomite	(t)	1 085	4	8	2 011	25 935	2 290.32	1 189.66
Feldspar	(t)	329	542	50	1 241	52	-84.19	-95.81
Gypsum	(t)	3 184 480	4 070 814	3 676 467	3 422 265	4 168 380	30.90	21.80
Kaolin	(t)	192 150	173 738	114 050	154 812	173 187	-9.87	11.87
Magnesite	(t)	210 844	263 446	413 182	799 203	893 623	323.83	11.81
Perlite	(t)	275	2 285	1 264	2 185	3 821	1 289.45	74.87
Phosphates	(t)	216 670	195 720	165 750	215 700	170	-99.92	-99.92
Salt	(t)	12 218 780	13 493 556	12 173 391	12 212 483	12 574 025	2.91	2.96
Sulfur	(t)	900 000	900 000	900 000	900 000	900 000	0.00	0.00
Talc	(t)	120 000	130 000	140 000	110 000	90 000	-25.00	-18.18
Zircon	(t)	430 850	522 400	468 900	380 000	569 000	32.06	49.74
Steam Coal	(t)	252 748 000	259 784 000	271 388 000	267 504 000	248 001 000	-1.88	-7.29
Coking Coal	(t)	190 000 000	179 350 000	189 066 000	183 764 000	170 601 000	-10.21	-7.16
Lignite	(t)	56 719 000	45 956 000	43 315 000	41 513 000	41 622 000	-26.62	0.26
Nat. Gas (Mio m <sup>3</sup> )		113 805	130 987	154 485	154 263	156 774	37.76	1.63
Petroleum	(t)	15 335 030	16 793 630	22 464 160	22 381 790	21 782 900	42.05	-2.68
Uranium	(t)	6 736	7 737	7 726	7 273	4 474	-33.58	-38.48
Total	(t)	1 268 897 266	1 291 306 877	1 350 112 935	1 337 579 509	1 309 620 617		

## Austria

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	954 156	897 132	1 037 470	973 840	1 059 550	11.05	8.80
Tungsten	(t)	975	936	892	896	919	-5.74	2.57
Feldspar	(t)	35 000	35 000	35 000	35 000	35 000	0.00	0.00
Graphite	(t)	150	150	100	100	100	-33.33	0.00
Gypsum	(t)	712 469	836 862	900 217	901 619	900 374	26.37	-0.14
Kaolin	(t)	13 500	13 500	13 500	13 500	13 500	0.00	0.00
Magnesite	(t)	730 482	808 239	691 909	816 370	844 226	15.57	3.41
Salt	(t)	1 156 326	1 176 807	1 212 158	1 014 554	1 117 586	-3.35	10.16
Sulfur	(t)	7 691	6 980	6 768	6 564	4 755	-38.17	-27.56
Talc	(t)	123 558	127 866	124 184	123 000	157 493	27.46	28.04
Nat. Gas (Mio m <sup>3</sup> )		1 742	969	891	743	654	-62.46	-11.98
Oil Shales	(t)	170	150	100	100	100	-41.18	0.00
Petroleum	(t)	741 890	681 842	642 953	609 254	571 428	-22.98	-6.21
Total	(t)	5 869 967	5 360 664	5 378 051	5 089 197	5 228 231		

Abbreviations: see Definitions

## Azerbaijan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	28 500	45 390	32 700	28 560	31 000	8.77	8.54
Copper	(t)	2 063	1 650	2 213	2 591	2 649	28.41	2.24
Gold	(kg)	3 667	4 239	3 897	3 635	3 427	-6.54	-5.72
Silver	(kg)	6 949	8 943	8 160	7 590	8 988	29.34	18.42
Bentonite	(t)	235 617	212 336	222 519	155 112	174 242	-26.05	12.33
Gypsum	(t)	85 100	270 471	314 224	297 594	417 892	391.06	40.42
Salt	(t)	66 968	66 699	77 116	76 401	71 495	6.76	-6.42
Nat. Gas	(Mio m <sup>3</sup> )	18 186	19 207	24 514	26 487	32 578	79.14	23.00
Petroleum	(t)	38 688 400	38 814 300	37 501 200	34 531 900	34 580 300	-10.62	0.14
Total	(t)	53 655 459	54 776 459	57 761 184	56 281 770	61 339 990		

## Bahamas

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	349 710	854 223	714 387	623 007	368 702	5.43	-40.82
Total	(t)	349 710	854 223	714 387	623 007	368 702		

## Bahrain

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	981 016	1 011 101	1 365 005	1 548 500	1 561 222	59.14	0.82
Sulfur	(t)	144 805	139 370	139 655	125 350	130 000	-10.22	3.71
Nat. Gas	(Mio m <sup>3</sup> )	15 230	15 420	17 120	17 230	17 590	15.50	2.09
Petroleum	(t)	9 815 140	9 667 380	9 668 850	9 694 300	9 608 230	-2.11	-0.89
Total	(t)	23 124 961	23 153 851	24 869 510	25 152 150	25 371 452		

## Bangladesh

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	1 660 000	1 493 000	1 824 000	1 570 000	1 651 000	-0.54	5.16
Steam Coal	(t)	1 160 658	923 276	805 696	811 138	753 973	-35.04	-7.05
Nat. Gas	(Mio m <sup>3</sup> )	27 450	27 430	27 230	24 990	25 170	-8.31	0.72
Petroleum	(t)	592 650	589 650	565 140	522 570	463 590	-21.78	-11.29
Total	(t)	25 373 308	24 949 926	24 978 836	22 895 708	23 004 563		

Abbreviations: see Definitions

## Barbados

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nat. Gas	(Mio m <sup>3</sup> )	15	14	14	11	11	-26.67	0.00
Petroleum	(t)	32 050	30 070	28 560	23 590	20 770	-35.20	-11.95
Total	(t)	44 050	41 270	39 760	32 390	29 570		

## Belarus

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Potash	(t)	7 101 800	7 346 096	7 348 293	7 562 153	7 750 000	9.13	2.48
Salt	(t)	2 629 000	2 904 097	2 517 590	1 198 290	2 265 000	-13.85	89.02
Nat. Gas	(Mio m <sup>3</sup> )	205	211	218	219	229	11.71	4.57
Petroleum	(t)	1 650 000	1 670 000	1 690 000	1 710 000	1 737 000	5.27	1.58
Total	(t)	11 544 800	12 088 993	11 730 283	10 645 643	11 935 200		

## Belgium

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
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

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	5	5	5	5	5	0.00	0.00
Salt	(t)	500	500	500	500	500	0.00	0.00
Total	(t)	500	500	500	500	500		

## Bhutan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	21 100	24 220	23 590	9 430	16 590	-21.37	75.93
Gypsum	(t)	328 128	461 128	490 596	331 050	403 753	23.05	21.96
Talc	(t)	1 293	2 042	1 375	972	678	-47.56	-30.25

Abbreviations: see Definitions

Steam Coal	(t)	161 527	186 824	184 785	72 838	111 545	-30.94	53.14
Total	(t)	512 048	674 214	700 346	414 290	532 566		

## Bolivia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	22 230	41 560	45 830	15 410	17 010	-23.48	10.38
Manganese	(t)	0	110	3 660	4 710	5 100	.	8.28
Tantalum	(t)	3	18	10	8	1	-66.67	-87.50
Tungsten	(t)	1 015	1 366	1 064	1 347	1 563	53.99	16.04
Antimony	(t)	2 881	3 110	2 747	2 629	3 084	7.05	17.31
Arsenic	(t)	20	238	126	50	100	400.00	100.00
Bismuth	(t)	8	39	0	55	27	237.50	-50.91
Copper	(t)	7 219	5 216	4 478	2 822	3 310	-54.15	17.29
Lead	(t)	113 286	112 140	88 002	64 619	92 767	-18.11	43.56
Lithium	(t)	20	10	160	80	410	1 950.00	412.50
Tin	(t)	18 386	17 251	17 147	14 709	19 628	6.76	33.44
Zinc	(t)	527 206	519 630	527 521	358 411	499 257	-5.30	39.30
Gold	(kg)	28 726	31 599	42 000	23 207	45 662	58.96	96.76
Silver	(kg)	1 222 371	1 191 024	1 153 109	929 909	1 289 456	5.49	38.66
Baryte	(t)	29 114	53 163	39 458	9 611	26 780	-8.02	178.64
Bentonite	(t)	68	2	0	0	0	-100.00	.
Boron	(t)	208 388	216 403	214 269	258 019	309 940	48.73	20.12
Gypsum	(t)	473	1 136	3 905	1 000	1 000	111.42	0.00
Potash	(t)		1 700	17 800	4 400	32 600	.	640.91
Salt	(t)	3 358	5 373	4 494	14 949	21 777	548.51	45.68
Nat. Gas	(Mio m <sup>3</sup> )	20 695	19 341	17 046	16 384	16 967	-18.01	3.56
Petroleum	(t)	2 711 300	2 534 273	2 244 260	2 065 070	2 032 870	-25.02	-1.56
Total	(t)	20 202 226	18 986 761	16 852 926	15 926 052	16 642 159		

## Bosnia-Herzegovina

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	827 170	704 050	739 600	727 980	792 500	-4.19	8.86
Aluminium	(t)	125 536	131 508	67 690	0	90 037	-28.28	.
Bauxite	(t)	740 384	760 244	1 043 343	619 748	675 269	-8.79	8.96
Lead	(t)	6 740	7 070	7 470	6 110	6 310	-6.38	3.27
Zinc	(t)	9 180	9 350	9 160	6 610	7 310	-20.37	10.59
Bentonite	(t)	92 344	87 358	94 601	69 183	75 761	-17.96	9.51
Gypsum	(t)	99 001	122 421	130 788	140 994	297 225	200.22	110.81
Kaolin	(t)	252 959	303 626	118 005	108 174	62 599	-75.25	-42.13

Abbreviations: see Definitions

Magnesite	(t)	8 500	5 950	1 400	652	196	-97.69	-69.94
Salt	(t)	1 029 302	1 063 458	1 069 210	947 838	966 358	-6.12	1.95
Lignite	(t)	14 033 504	14 378 767	13 376 548	13 365 730	12 802 517	-8.77	-4.21
Total	(t)	17 224 620	17 573 802	16 657 815	15 993 019	15 776 082		

## Botswana

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Copper	(t)	1 239	1 462	0	0	11 742	847.70	.
Gold	(kg)	913	1 105	943	851	649	-28.92	-23.74
Silver	(kg)				0	10 383	.	.
Diam. (Gem)	(ct)	16 058 700	17 064 600	16 580 900	11 807 600	15 887 200	-1.07	34.55
Diam. (Ind)	(ct)	6 882 300	7 313 400	7 106 100	5 060 400	6 808 800	-1.07	34.55
Salt	(t)	369 613	367 988	383 779	418 379	499 527	35.15	19.40
Steam Coal	(t)	2 215 782	2 482 313	2 110 891	1 923 992	2 021 218	-8.78	5.05
Total	(t)	2 586 639	2 851 768	2 494 675	2 342 375	2 532 502		

## Brazil

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	289 089 904	287 617 655	255 339 422	245 951 962	273 330 125	-5.45	11.13
Chromium	(t)	212 503	219 724	199 256	226 762	248 108	16.76	9.41
Cobalt	(t)	185	4	0	0	0	-100.00	.
Manganese	(t)	1 343 967	1 310 825	1 452 034	932 721	597 446	-55.55	-35.95
Nickel	(t)	68 803	65 254	55 761	68 097	75 988	10.44	11.59
Niobium	(t)	83 166	99 554	126 641	85 572	112 755	35.58	31.77
Tantalum	(t)	270	345	340	300	350	29.63	16.67
Titanium	(t)	66 930	73 090	81 650	61 940	75 100	12.21	21.25
Tungsten	(t)	411	346	306	262	301	-26.76	14.89
Vanadium	(t)	6 798	6 562	7 045	7 582	7 212	6.09	-4.88
Aluminium	(t)	801 700	659 000	650 200	685 100	771 700	-3.74	12.64
Bauxite	(t)	38 072 100	32 377 000	31 937 900	32 897 800	35 949 600	-5.57	9.28
Beryllium	(t)	69	39	9	10	10	-85.51	0.00
Cadmium	(t)	180	300	450	100	50	-72.22	-50.00
Copper	(t)	384 542	385 762	363 268	353 258	335 761	-12.69	-4.95
Indium	(t)	5	0	0	0	0	-100.00	.
Lead	(t)	6 959	7 277	5 715	5 351	6 307	-9.37	17.87
Lithium	(t)	533	786	2 575	4 065	5 670	963.79	39.48
Rare Earths	(t)	1 900	510	380	450	580	-69.47	28.89
Tin	(t)	17 081	17 591	14 867	16 893	15 517	-9.16	-8.15
Zinc	(t)	156 348	169 773	163 403	174 332	159 913	2.28	-8.27
Gold	(kg)	79 717	85 198	89 988	98 922	93 103	16.79	-5.88
Silver	(kg)	46 400	49 600	50 000	68 430	80 870	74.29	18.18

Abbreviations: see Definitions

Asbestos	(t)	129 094	111 439	12 205	77 057	172 256	33.43	123.54
Baryte	(t)	16 275	9 377	9 223	1 849	361	-97.78	-80.48
Bentonite	(t)	616 929	500 000	403 763	217 055	220 000	-64.34	1.36
Diam. (Gem)	(ct)	84 115	82 810	53 240	41 300	46 670	-44.52	13.00
Diam. (Ind)	(ct)	170 780	168 130	108 085	83 840	94 760	-44.51	13.02
Diatomite	(t)	30 192	20 562	17 673	35 574	10 665	-64.68	-70.02
Feldspar	(t)	519 605	592 284	632 349	450 573	491 042	-5.50	8.98
Fluorspar	(t)	25 522	28 195	24 399	24 730	28 158	10.33	13.86
Graphite	(t)	95 000	78 981	81 770	67 020	78 555	-17.31	17.21
Gypsum	(t)	2 176 356	2 666 002	2 842 654	2 851 643	2 887 575	32.68	1.26
Kaolin	(t)	1 681 188	1 685 255	1 471 610	1 239 591	1 153 884	-31.36	-6.91
Magnesite	(t)	2 303 971	1 900 000	1 530 000	1 550 000	1 800 000	-21.87	16.13
Phosphates	(t)	2 083 000	1 980 300	1 828 500	1 698 100	1 765 000	-15.27	3.94
Potash	(t)	306 296	201 181	248 911	254 837	213 028	-30.45	-16.41
Salt	(t)	7 381 546	7 227 300	6 700 500	6 464 300	6 534 300	-11.48	1.08
Sulfur	(t)	530 000	450 000	460 000	450 000	435 000	-17.92	-3.33
Talc	(t)	500 000	660 000	650 000	650 000	660 000	32.00	1.54
Vermiculite	(t)	50 050	56 708	47 581	58 821	70 500	40.86	19.86
Zircon	(t)	19 016	17 844	17 136	10 994	6 482	-65.91	-41.04
Steam Coal	(t)	3 325 439	3 568 760	3 812 975	3 171 509	4 768 003	43.38	50.34
Lignite	(t)	1 488 084	1 422 500	1 596 696	2 309 404	1 896 525	27.45	-17.88
Nat. Gas	(Mio m <sup>3</sup> )	28 663	26 687	27 358	25 384	25 382	-11.45	-0.01
Petroleum	(t)	136 052 700	134 122 000	143 933 400	151 759 400	149 154 800	9.63	-1.72
Uranium	(t)	0	0	0	20	34	.	70.00
Total	(t)	512 575 143	501 659 820	478 609 107	475 122 401	504 344 435		

## Brunei

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nat. Gas	(Mio m <sup>3</sup> )	14 578	12 235	12 504	12 065	11 178	-23.32	-7.35
Petroleum	(t)	5 635 870	5 553 200	6 040 240	5 479 350	5 308 680	-5.81	-3.11
Total	(t)	17 298 270	15 341 200	16 043 440	15 131 350	14 251 080		

## Bulgaria

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	574	0	0	0	0	-100.00	.
Cadmium	(t)	333	313	315	311	343	3.00	10.29
Copper	(t)	110 290	112 850	114 240	107 610	104 020	-5.69	-3.34
Lead	(t)	22 860	24 200	23 350	20 680	21 420	-6.30	3.58
Tellurium	(t)	5	4	3	4	3	-40.00	-25.00
Zinc	(t)	19 250	20 390	19 170	17 520	17 910	-6.96	2.23
Gold	(kg)	8 670	8 995	7 467	9 349	9 695	11.82	3.70
Silver	(kg)	59 484	47 016	40 755	39 126	38 661	-35.01	-1.19
Baryte	(t)	64 000	70 000	72 000	41 000	72 000	12.50	75.61
Bentonite	(t)	54 100	45 000	45 000	40 900	72 100	33.27	76.28
Gypsum	(t)	88 000	88 000	88 000	54 800	77 400	-12.05	41.24

**Abbreviations:** see Definitions



Kaolin	(t)	322 800	323 000	330 000	276 000	380 000	17.72	37.68
Salt	(t)	3 400 000	3 400 000	3 400 000	2 700 000	3 300 000	-2.94	22.22
Sulfur	(t)	501 000	474 100	423 600	497 000	434 500	-13.27	-12.58
Lignite	(t)	34 587 500	31 813 678	29 462 615	22 519 300	28 410 900	-17.86	26.16
Nat. Gas	(Mio m <sup>3</sup> )	65	31	35	55	31	-52.31	-43.64
Oil Shales	(t)		0	39 000	44 000	56 000	.	27.27
Petroleum	(t)	21 930	20 600	20 000	20 500	20 086	-8.41	-2.02
Total	(t)	39 244 710	36 416 991	34 065 341	26 383 673	32 991 531		

## Burkina Faso

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Zinc	(t)	91 530	99 162	106 680	78 990	84 170	-8.04	6.56
Gold	(kg)	46 398	52 622	50 302	62 138	66 858	44.10	7.60
Silver	(kg)	5 470	6 160	5 670	10 012	8 897	62.65	-11.14
Total	(t)	91 581	99 221	106 736	79 062	84 246		

## Burundi

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Niobium	(t)	18	5	5	5	10	-44.44	100.00
Tantalum	(t)	26	8	8	7	15	-42.31	114.29
Tungsten	(t)	144	108	150	166	120	-16.67	-27.71
Rare Earths	(t)	31	631	195	296	134	332.26	-54.73
Tin	(t)	123	122	143	121	95	-22.76	-21.49
Gold	(kg)	953	598	573	863	986	3.46	14.25
Total	(t)	343	875	502	596	375		

## Cambodia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)				0	1 466	.	.
Salt	(t)	33 058	30 000	18 430	83 969	68 682	107.76	-18.21
Total	(t)	33 058	30 000	18 430	83 969	68 683		

Abbreviations: see Definitions

## Cameroon

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	68 598	65 900	53 200	47 500	36 400	-46.94	-23.37
Gold	(kg)	713	448	341	400	440	-38.29	10.00
Diam. (Ind)	(ct)	1 757	1 805	1 737	2 438	2 668	51.85	9.43
Nat. Gas	(Mio m <sup>3</sup> )	390	1 460	2 010	2 130	2 090	435.90	-1.88
Petroleum	(t)	3 781 800	3 428 100	3 545 900	3 622 200	3 493 100	-7.63	-3.56
Total	(t)	4 162 399	4 662 000	5 207 100	5 373 700	5 201 500		

## Canada

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	30 682 700	32 180 800	33 020 200	35 775 100	35 070 000	14.30	-1.97
Cobalt	(t)	6 058	5 608	5 132	4 474	3 834	-36.71	-14.30
Molybdenum	(t)	4 765	5 048	4 385	3 979	2 023	-57.54	-49.16
Nickel	(t)	214 302	177 867	193 057	158 138	133 581	-37.67	-15.53
Niobium	(t)	6 981	7 700	6 800	6 400	7 650	9.58	19.53
Titanium	(t)	670 000	620 000	550 000	480 000	440 000	-34.33	-8.33
Aluminium	(t)	3 212 124	2 924 389	2 853 771	3 118 710	3 136 704	-2.35	0.58
Antimony	(t)	1	5	2	2	2	100.00	0.00
Bismuth	(t)	4	5	4	4	4	0.00	0.00
Cadmium	(t)	1 802	1 857	1 803	1 800	1 800	-0.11	0.00
Copper	(t)	597 194	548 011	543 609	578 966	541 648	-9.30	-6.45
Indium	(t)	67	58	61	61	44	-34.33	-27.87
Lead	(t)	20 477	17 874	22 608	3 770	70 156	242.61	1 760.90
Lithium	(t)	66	8 750	1 200	0	0	-100.00	.
Selenium	(t)	72	85	102	102	57	-20.83	-44.12
Tellurium	(t)	18	25	13	23	25	38.89	8.70
Zinc	(t)	346 776	304 964	323 000	247 534	310 158	-10.56	25.30
Gold	(kg)	178 568	194 155	190 542	178 055	222 524	24.62	24.97
Palladium	(kg)	19 140	20 880	23 340	21 430	15 260	-20.27	-28.79
Platinum	(kg)	6 850	7 460	8 340	8 360	5 960	-12.99	-28.71
Rhodium	(kg)	600	750	830	730	520	-13.33	-28.77
Silver	(kg)	392 788	403 589	357 422	324 862	325 026	-17.25	0.05
Baryte	(t)	50 000	50 000	40 000	40 000	50 000	0.00	25.00
Diam. (Gem)	(ct)	23 198 761	22 789 001	17 560 210	14 389 507	17 353 418	-25.20	20.60
Fluorspar	(t)	0	20 000	80 000	50 000	50 000	.	0.00
Graphite	(t)	14 000	11 000	11 045	7 620	7 700	-45.00	1.05
Gypsum	(t)	3 001 390	3 240 451	2 444 963	3 049 824	3 135 484	4.47	2.81
Magnesite	(t)	150 000	150 000	150 000	160 000	180 000	20.00	12.50
Potash	(t)	12 562 695	14 023 931	12 820 345	13 722 423	13 096 467	4.25	-4.56
Salt	(t)	11 423 624	10 713 206	11 935 716	12 722 729	11 817 928	3.45	-7.11
Sulfur	(t)	5 327 000	5 333 000	4 808 913	4 904 051	4 879 000	-8.41	-0.51
Talc	(t)	215 000	279 000	243 000	153 293	153 000	-28.84	-0.19

**Abbreviations:** see Definitions

Steam Coal	(t)	23 049 000	17 929 000	15 078 380	12 957 270	12 195 290	-47.09	-5.88
Coking Coal	(t)	29 219 000	29 666 000	29 952 270	24 978 320	26 972 900	-7.69	7.99
Lignite	(t)	9 890 000	9 900 000	8 134 855	7 349 317	8 293 554	-16.14	12.85
Nat. Gas (Mio m <sup>3</sup> )		173 475	177 821	170 890	167 048	173 515	0.02	3.87
Oil Sands*	(t)	144 006 100	156 864 600	158 766 200	153 043 300	167 022 400	15.98	9.13
Petroleum	(t)	238 267 000	258 786 900	265 045 900	253 195 200	266 190 400	11.72	5.13
Uranium	(t)	14 394	8 225	8 230	4 260	5 443	-62.19	27.77
<b>Total</b>	<b>(t)</b>	<b>507 727 114</b>	<b>529 171 191</b>	<b>524 991 948</b>	<b>507 312 306</b>	<b>525 557 425</b>		

\*Oil Sands as part of Petroleum

## Cape Verde

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	1 000	1 000	1 000	2 585	2 621	162.10	1.39
<b>Total</b>	<b>(t)</b>	<b>1 000</b>	<b>1 000</b>	<b>1 000</b>	<b>2 585</b>	<b>2 621</b>		

## Central African Republic

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	118	142	359	401	840	611.86	109.48
Diam. (Gem)	(ct)	47 840	10 860	22 040	49 470	74 220	55.14	50.03
Diam. (Ind)	(ct)	11 960	2 710	5 510	12 370	18 550	55.10	49.96
<b>Total</b>	<b>(t)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>		

## Chad

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Petroleum	(t)	5 663 200	5 750 600	6 316 700	6 303 000	5 799 300	2.40	-7.99
<b>Total</b>	<b>(t)</b>	<b>5 663 200</b>	<b>5 750 600</b>	<b>6 316 700</b>	<b>6 303 000</b>	<b>5 799 300</b>		

## Chile

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	9 549 327	8 942 638	8 427 224	9 890 886	11 163 294	16.90	12.86
Molybdenum	(t)	62 746	60 705	54 759	59 381	49 427	-21.23	-16.76
Copper	(t)	5 503 500	5 831 600	5 787 400	5 733 100	5 624 900	2.21	-1.89
Lead	(t)	1 562	712	7	1 386	382	-75.54	-72.44
Lithium	(t)	32 520	38 850	44 940	49 730	65 060	100.06	30.83

**Abbreviations:** see Definitions

Mercury	(t)	5	3	0	0	0	-100.00	.
Rhenium	(kg)	20 451	26 052	24 003	14 549	18 831	-7.92	29.43
Zinc	(t)	29 008	26 810	5 620	28 662	27 915	-3.77	-2.61
Gold	(kg)	37 911	37 066	38 455	33 895	34 248	-9.66	1.04
Silver	(kg)	1 318 582	1 370 237	1 309 321	1 575 794	1 383 041	4.89	-12.23
Bentonite	(t)	1 584	525	395	170	170	-89.27	0.00
Boron	(t)	607 076	398 411	352 255	288 103	363 032	-40.20	26.01
Diatomite	(t)	27 557	24 736	21 328	21 477	27 096	-1.67	26.16
Feldspar	(t)	4 421	2 789	55	329	0	-100.00	-100.00
Gypsum	(t)	1 157 466	909 191	977 397	910 310	1 007 206	-12.98	10.64
Kaolin	(t)	60 000	88 262	34 801	38 789	49 533	-17.45	27.70
Perlite	(t)	4 210	5 020	4 700	0	0	-100.00	.
Phosphates	(t)	1 190	1 160	950	590	620	-47.90	5.08
Potash	(t)	1 238 630	991 180	683 540	966 680	891 450	-28.03	-7.78
Salt	(t)	7 440 741	10 012 105	10 476 823	9 574 159	8 565 307	15.11	-10.54
Sulfur	(t)	1 797 800	1 734 200	1 516 400	1 742 000	1 655 100	-7.94	-4.99
Steam Coal	(t)	2 495 390	2 294 677	1 606 554	191 562	18 541	-99.26	-90.32
Nat. Gas	(Mio m <sup>3</sup> )	1 200	1 221	1 339	1 316	1 275	6.25	-3.12
Petroleum	(t)	177 760	160 330	161 520	102 640	109 980	-38.13	7.15
Total	(t)	31 153 870	32 502 137	31 229 239	30 654 379	30 640 449		

## China

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	215 920 000	209 243 800	219 375 000	225 400 000	254 900 000	18.05	13.09
Chromium	(t)	12 000	16 330	27 250	54 440	67 620	463.50	24.21
Cobalt	(t)	8 300	3 100	3 000	2 200	2 000	-75.90	-9.09
Manganese	(t)	2 508 000	1 180 000	1 350 000	1 218 000	1 300 000	-48.17	6.73
Molybdenum	(t)	117 090	98 420	104 670	95 970	102 600	-12.38	6.91
Nickel	(t)	102 348	98 963	104 674	105 048	104 600	2.20	-0.43
Niobium	(t)	30	20	20	30	30	0.00	0.00
Tantalum	(t)	110	100	135	180	180	63.64	0.00
Titanium	(t)	1 242 000	1 932 000	2 306 900	2 911 800	2 856 650	130.00	-1.89
Tungsten	(t)	71 800	68 000	74 950	71 450	68 660	-4.37	-3.90
Vanadium	(t)	48 500	53 200	64 700	69 960	63 800	31.55	-8.81
Aluminium	(t)	33 289 600	36 831 000	35 361 600	37 080 400	38 503 200	15.66	3.84
Antimony	(t)	97 683	70 396	68 422	60 995	41 480	-57.54	-31.99
Arsenic	(t)	25 000	24 000	24 000	24 000	24 000	-4.00	0.00
Bauxite	(t)	68 390 000	70 751 000	73 323 700	70 000 000	68 400 000	0.01	-2.29
Beryllium	(t)	1 250	1 250	1 750	1 750	1 750	40.00	0.00
Bismuth	(t)	6 800	7 000	7 000	7 500	8 000	17.65	6.67
Cadmium	(t)	8 411	10 349	10 000	10 000	10 000	18.89	0.00
Copper	(t)	1 706 400	1 618 480	1 683 450	1 718 940	1 901 000	11.40	10.59
Gallium	(t)	290	305	356	290	420	44.83	44.83
Germanium	(t)	87	95	85	86	132	51.72	53.49
Indium	(t)	355	395	490	528	540	52.11	2.27
Lead	(t)	2 080 000	2 033 000	2 097 000	1 969 000	2 000 000	-3.85	1.57
Lithium	(t)	14 700	15 300	19 000	28 800	30 500	107.48	5.90
Mercury	(t)	1 949	2 303	2 046	1 993	1 400	-28.17	-29.75
Rare Earths	(t)	105 000	120 000	132 000	140 000	168 000	60.00	20.00
Rhenium	(kg)	2 500	2 500	2 500	2 500	2 500	0.00	0.00

**Abbreviations:** see Definitions

Selenium	(t)	720	930	1 250	1 120	1 400	94.44	25.00
Tellurium	(t)	470	480	380	260	530	12.77	103.85
Tin	(t)	74 800	87 070	85 584	94 460	91 000	21.66	-3.66
Zinc	(t)	3 868 500	3 721 000	4 213 000	4 058 000	4 136 000	6.91	1.92
Gold	(kg)	426 142	401 119	380 230	365 340	328 980	-22.80	-9.95
Palladium	(kg)	1 400	1 300	1 300	1 300	1 300	-7.14	0.00
Platinum	(kg)	2 500	2 500	2 500	2 500	2 500	0.00	0.00
Silver	(kg)	3 620 400	3 440 000	3 468 000	3 405 800	3 511 600	-3.01	3.11
Asbestos	(t)	125 000	170 000	125 000	120 000	120 000	-4.00	0.00
Baryte	(t)	3 100 000	2 900 000	2 900 000	2 500 000	2 200 000	-29.03	-12.00
Bentonite	(t)	5 600 000	5 600 000	5 600 000	3 650 000	2 500 000	-55.36	-31.51
Boron	(t)	70 000	80 000	250 000	250 000	250 000	257.14	0.00
Diam. (Gem)	(ct)	230	99	51	21	0	-100.00	-100.00
Diatomite	(t)	400 000	280 000	420 000	420 000	200 000	-50.00	-52.38
Feldspar	(t)	2 500 000	2 500 000	2 450 000	2 450 000	2 450 000	-2.00	0.00
Fluorspar	(t)	3 800 000	3 500 000	4 000 000	4 300 000	5 400 000	42.11	25.58
Graphite	(t)	625 000	630 000	700 000	665 000	735 000	17.60	10.53
Gypsum	(t)	25 000 000	25 000 000	25 000 000	25 000 000	25 000 000	0.00	0.00
Kaolin	(t)	6 910 000	6 650 000	6 400 000	6 500 000	6 400 000	-7.38	-1.54
Magnesite	(t)	18 500 000	19 000 000	19 000 000	19 000 000	18 000 000	-2.70	-5.26
Phosphates	(t)	36 939 600	28 897 800	27 997 200	26 679 960	30 869 700	-16.43	15.70
Potash	(t)	5 534 000	5 452 000	5 902 000	5 530 000	5 814 600	5.07	5.15
Salt	(t)	66 541 700	63 636 100	67 014 400	58 526 800	57 065 100	-14.24	-2.50
Sulfur	(t)	13 488 700	13 762 700	14 450 000	15 340 000	15 730 000	16.62	2.54
Talc	(t)	1 800 000	2 000 000	1 800 000	1 300 000	1 400 000	-22.22	7.69
Vermiculite	(t)	50 000	50 000	50 000	50 000	40 000	-20.00	-20.00
Zircon	(t)	116 000	150 000	140 000	140 000	140 000	20.69	0.00
Steam Coal	(t)	2 671 559 000	2 850 962 000	2 970 445 000	2 999 940 000	3 152 948 000	18.02	5.10
Coking Coal	(t)	516 107 000	530 440 000	538 634 000	561 254 300	572 061 400	10.84	1.93
Nat. Gas (Mio m <sup>3</sup> )		148 035	160 159	175 362	192 495	207 584	40.23	7.84
Petroleum	(t)	191 506 100	189 324 200	191 628 300	194 768 600	198 881 100	3.85	2.11
Uranium	(t)	2 223	2 223	2 223	2 223	2 223	0.00	0.00
Total	(t)	4 018 408 569	4 207 106 357	4 365 643 990	4 427 513 861	4 639 063 663		

## Christmas Island

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Phosphates	(t)	147 890	111 780	89 010	120 750	120 290	-18.66	-0.38
Total	(t)	147 890	111 780	89 010	120 750	120 290		

## Colombia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	320 790	353 950	300 020	353 950	337 450	5.19	-4.66
Manganese	(t)	0	80	160	0	0	.	.
Nickel	(t)	40 606	43 056	40 571	36 094	38 301	-5.68	6.11

Abbreviations: see Definitions

Bauxite	(t)	2 400	13 666	18 033	9 595	3 200	33.33	-66.65
Copper	(t)	9 356	9 918	7 641	9 356	9 194	-1.73	-1.73
Tin	(t)		0	22	10	0	.	-100.00
Gold	(kg)	43 158	35 965	38 006	48 561	55 534	28.68	14.36
Platinum	(kg)	567	270	178	414	618	8.99	49.28
Silver	(kg)	12 076	16 691	14 479	19 948	26 963	123.28	35.17
Baryte	(t)	2 028	3 211	2 270	2 046	744	-63.31	-63.64
Bentonite	(t)	103 217	166 778	145 643	179 893	51 353	-50.25	-71.45
Feldspar	(t)	150 334	141 794	179 856	134 846	46 887	-68.81	-65.23
Fluorspar	(t)	57	46	0	0	0	-100.00	.
Graphite	(t)		0	135	0	0	.	.
Gypsum	(t)	406 624	396 373	294 137	284 222	293 186	-27.90	3.15
Kaolin	(t)	164 077	70 799	96 051	29 372	70 032	-57.32	138.43
Magnesite	(t)	1 913	1 039	1 847	1 077	0	-100.00	-100.00
Phosphates	(t)	15 870	13 240	20 480	14 210	9 470	-40.33	-33.36
Salt	(t)	511 117	403 316	347 183	380 406	342 497	-32.99	-9.97
Sulfur	(t)	81 172	155 641	100 203	69 638	70 000	-13.76	0.52
Talc	(t)	2 374	2 062	1 708	717	45	-98.10	-93.72
Steam Coal	(t)	85 213 000	80 771 070	79 770 360	46 768 892	47 072 614	-44.76	0.65
Coking Coal	(t)	6 078 000	5 555 700	5 398 800	5 780 420	5 817 960	-4.28	0.65
Nat. Gas	(Mio m <sup>3</sup> )	10 915	11 590	11 800	11 770	12 110	10.95	2.89
Petroleum	(t)	42 519 290	43 088 900	44 101 940	38 993 490	36 660 230	-13.78	-5.98
Total	(t)	144 354 281	140 462 692	140 267 112	102 464 303	100 511 247		

## Congo, D.R.

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Cobalt	(t)	82 461	111 713	78 664	86 591	93 011	12.79	7.41
Manganese	(t)	0	5 360	1 780	1 000	1 000	.	0.00
Niobium	(t)	717	607	433	565	475	-33.75	-15.93
Tantalum	(t)	761	644	460	600	505	-33.64	-15.83
Tungsten	(t)	130	160	260	116	114	-12.31	-1.72
Copper	(t)	1 094 638	1 239 059	1 461 124	1 712 964	1 924 374	75.80	12.34
Tin	(t)	10 391	8 950	10 990	14 670	15 750	51.57	7.36
Zinc	(t)	12 337	1 047	1 607	15 305	16 079	30.33	5.06
Gold	(kg)	31 586	36 777	33 752	29 597	31 445	-0.45	6.24
Silver	(kg)	3 376	3 400	3 400	3 400	3 400	0.71	0.00
Diam. (Gem)	(ct)	2 268 332	1 815 745	2 020 450	2 588 850	2 594 650	14.39	0.22
Diam. (Ind)	(ct)	16 634 432	13 315 465	11 449 240	10 355 400	10 378 700	-37.61	0.23
Petroleum	(t)	1 027 850	1 144 760	1 113 260	1 191 660	1 170 000	13.83	-1.82
Total	(t)	2 229 323	2 512 343	2 668 617	3 023 507	3 221 345		

**Abbreviations:** see Definitions

## Congo, Rep.

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	0	10 800	20 200	33 500	0	.	-100.00
Copper	(t)	15 979	18 018	18 760	10 300	10 300	-35.54	0.00
Zinc	(t)	4 270	460	4 830	1 100	4 300	0.70	290.91
Gold	(kg)	100	150	150	150	150	50.00	0.00
Diam. (Ind)	(ct)	46 758	46 768	2 963	11 157	4 125	-91.18	-63.03
Nat. Gas	(Mio m <sup>3</sup> )	860	867	622	809	1 000	16.28	23.61
Petroleum	(t)	13 252 670	16 740 500	16 749 800	15 280 150	13 446 000	1.46	-12.00
Total	(t)	13 960 919	17 463 378	17 291 190	15 972 250	14 260 600		

## Costa Rica

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	4 255	3 699	4 500	600	600	-85.90	0.00
Diatomite	(t)	4 218	3 972	4 000	4 000	4 000	-5.17	0.00
Total	(t)	4 222	3 976	4 005	4 001	4 001		

## Cote d'Ivoire

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	204 700	319 200	472 700	530 200	580 000	183.34	9.39
Nickel	(t)	400	12 300	9 900	20 220	22 500	5 525.00	11.28
Bauxite	(t)			0	272 295	700 000	.	157.07
Gold	(kg)	25 396	24 488	32 568	38 523	41 855	64.81	8.65
Silver	(kg)	493	510	300	956	1 000	102.84	4.60
Diam. (Gem)	(ct)	8 925	4 540	3 989	4 012	4 121	-53.83	2.72
Diam. (Ind)	(ct)	2 231	1 140	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	2 130	1 935	2 171	2 229	2 373	11.41	6.46
Petroleum	(t)	1 696 900	1 607 400	1 799 700	1 470 100	1 196 700	-29.48	-18.60
Total	(t)	3 606 025	3 486 925	4 019 133	4 076 055	4 397 643		

Abbreviations: see Definitions

## Croatia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bauxite	(t)	12 215	11 776	14 342	14 084	14 448	18.28	2.58
Gypsum	(t)	147 934	211 894	199 255	221 629	285 966	93.31	29.03
Salt	(t)	19 006	16 453	93 870	111 901	111 319	485.70	-0.52
Nat. Gas	(Mio m <sup>3</sup> )	1 484	1 230	1 029	849	746	-49.73	-12.13
Petroleum	(t)	744 500	732 100	705 700	631 800	604 500	-18.80	-4.32
Total	(t)	2 110 855	1 956 223	1 836 367	1 658 614	1 613 033		

## Cuba

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	14 400	10 500	27 000	14 000	8 500	-40.97	-39.29
Cobalt	(t)	5 407	5 000	3 800	3 900	3 800	-29.72	-2.56
Nickel	(t)	49 300	49 000	45 000	46 000	45 000	-8.72	-2.17
Lead	(t)	1 500	25 380	36 000	30 000	30 000	1 900.00	0.00
Zinc	(t)	2 900	42 250	57 830	57 730	44 500	1 434.48	-22.92
Bentonite	(t)	589	630	504	486	517	-12.22	6.38
Feldspar	(t)	8 715	3 000	2 100	14 100	17 800	104.25	26.24
Gypsum	(t)	85 400	99 900	66 330	62 300	53 200	-37.70	-14.61
Kaolin	(t)	1 500	2 700	2 100	2 032	1 375	-8.33	-32.33
Magnesite	(t)	0	0	1 532	3 910	3 000	.	-23.27
Phosphates	(t)	0	0	0	460	410	.	-10.87
Salt	(t)	246 300	192 700	210 370	226 000	204 600	-16.93	-9.47
Sulfur	(t)	298 600	309 000	317 000	311 200	278 900	-6.60	-10.38
Nat. Gas	(Mio m <sup>3</sup> )	1 051	970	951	895	652	-37.96	-27.15
Petroleum	(t)	2 522 200	2 462 500	2 371 450	2 320 200	2 200 000	-12.77	-5.18
Total	(t)	4 077 611	3 978 560	3 901 816	3 808 318	3 413 202		

## Cyprus

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Copper	(t)	1 293	908	703	0	0	-100.00	.
Gold	(kg)	48	47	33	61	0	-100.00	-100.00
Silver	(kg)	99	180	97	486	0	-100.00	-100.00
Bentonite	(t)	95 593	98 800	83 113	92 645	81 655	-14.58	-11.86
Gypsum	(t)	647 108	625 721	623 545	646 340	661 175	2.17	2.30
Total	(t)	743 994	725 429	707 361	738 985	742 830		

**Abbreviations:** see Definitions



## Czech Republic

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bentonite	(t)	254 000	277 000	357 000	226 000	198 000	-22.05	-12.39
Diatomite	(t)	34 000	31 000	43 000	46 000	18 000	-47.06	-60.87
Feldspar	(t)	368 000	449 000	460 000	419 000	504 000	36.96	20.29
Gypsum	(t)	7 000	8 000	10 000	17 000	17 000	142.86	0.00
Kaolin	(t)	3 669 000	3 622 000	3 446 000	3 069 000	3 454 000	-5.86	12.54
Steam Coal	(t)	2 337 100	1 993 850	1 335 497	841 188	739 460	-68.36	-12.09
Coking Coal	(t)	2 532 900	2 626 361	2 309 833	1 296 137	1 734 896	-31.51	33.85
Lignite	(t)	39 310 000	39 187 000	37 465 000	29 505 000	29 278 000	-25.52	-0.77
Nat. Gas (Mio m <sup>3</sup> )		171	179	146	173	153	-10.53	-11.56
Petroleum	(t)	106 000	109 000	81 000	91 000	83 000	-21.70	-8.79
Uranium	(t)	66	40	39	34	32	-51.52	-5.88
<b>Total</b>	<b>(t)</b>	<b>48 754 866</b>	<b>48 446 451</b>	<b>45 624 169</b>	<b>35 648 759</b>	<b>36 148 788</b>		

## Denmark

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bentonite	(t)	69 594	56 173	48 197	40 054	20 281	-70.86	-49.37
Diatomite	(t)	110 000	99 400	108 800	115 000	120 600	9.64	4.87
Salt	(t)	600 000	600 000	600 000	600 000	600 000	0.00	0.00
Sulfur	(t)	4 004	4 194	3 554	4 140	4 090	2.15	-1.21
Nat. Gas (Mio m <sup>3</sup> )		4 820	4 148	3 138	1 425	1 352	-71.95	-5.12
Petroleum	(t)	6 736 967	5 665 787	5 017 234	3 556 000	3 277 800	-51.35	-7.82
<b>Total</b>	<b>(t)</b>	<b>11 376 565</b>	<b>9 743 954</b>	<b>8 288 185</b>	<b>5 455 194</b>	<b>5 104 371</b>		

## Dominican Republic

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nickel	(t)	15 632	19 214	28 450	22 005	27 819	77.96	26.42
Bauxite	(t)	0	0	0	9 475	80 058	.	744.94
Copper	(t)	9 618	8 588	6 047	2 193	4 774	-50.36	117.69
Zinc	(t)	3 920	4 038	5 527	2 361	4 986	27.19	111.18
Gold	(kg)	35 243	31 633	31 801	28 154	25 437	-27.82	-9.65
Silver	(kg)	151 828	166 510	108 685	87 889	79 688	-47.51	-9.33
Feldspar	(t)	5 000	1 200	1 000	0	0	-100.00	.
Gypsum	(t)	217 570	190 660	316 630	304 920	329 630	51.51	8.10
Salt	(t)	0	23 860	26 000	24 000	20 000	.	-16.67
<b>Total</b>	<b>(t)</b>	<b>251 927</b>	<b>247 759</b>	<b>383 795</b>	<b>365 070</b>	<b>467 372</b>		

Abbreviations: see Definitions

## Ecuador

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Antimony	(t)	260	0	0	0	0	-100.00	.
Copper	(t)	8 200	42 200	9 900	49 700	89 170	987.44	79.42
Gold	(kg)	6 368	8 213	6 293	9 086	15 026	135.96	65.38
Silver	(kg)	68	192	2 892	1 792	23 698	34 750.00	1 222.43
Baryte	(t)	0	2 868	2 000	2 000	1 000	.	-50.00
Feldspar	(t)	92 871	43 197	45 000	0	0	-100.00	.
Kaolin	(t)	548	0	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	463	353	318	268	269	-41.90	0.37
Petroleum	(t)	26 452 000	25 754 000	26 442 000	23 932 000	23 543 000	-11.00	-1.63
Total	(t)	26 924 285	26 124 673	26 753 309	24 198 111	23 848 409		

## Egypt

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	254 300	250 700	48 200	270 000	270 000	6.17	0.00
Manganese	(t)	11 900	13 200	7 900	5 300	8 000	-32.77	50.94
Aluminium	(t)	298 000	267 100	290 000	268 000	270 000	-9.40	0.75
Gold	(kg)	16 941	14 694	14 946	14 069	12 919	-23.74	-8.17
Baryte	(t)	4 000	4 000	4 000	4 000	4 000	0.00	0.00
Bentonite	(t)	4 600	10 000	7 000	7 000	7 000	52.17	0.00
Feldspar	(t)	230 000	230 000	230 000	200 000	200 000	-13.04	0.00
Fluorspar	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Gypsum	(t)	835 614	727 370	800 000	800 000	800 000	-4.26	0.00
Kaolin	(t)	230 000	230 000	230 000	230 000	230 000	0.00	0.00
Phosphates	(t)	1 021 960	870 870	979 620	986 000	986 000	-3.52	0.00
Salt	(t)	532 000	522 000	493 000	500 000	500 000	-6.02	0.00
Sulfur	(t)	80 000	80 000	80 000	80 000	80 000	0.00	0.00
Talc	(t)	15 000	25 000	22 000	20 000	15 000	0.00	-25.00
Nat. Gas	(Mio m <sup>3</sup> )	48 810	58 560	64 940	58 465	67 799	38.90	15.97
Petroleum	(t)	32 178 000	32 844 000	31 812 000	31 066 370	29 601 360	-8.01	-4.72
Total	(t)	74 744 391	82 923 255	86 956 735	81 209 684	87 211 573		

## El Salvador

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Total	(t)	30 000	30 000	30 000	30 000	30 000		

**Abbreviations:** see Definitions

## Equatorial Guinea

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nat. Gas (Mio m <sup>3</sup> )		8 240	7 750	6 235	6 023	7 047	-14.48	17.00
Petroleum (t)		8 666 670	7 826 120	7 150 650	7 154 660	5 919 365	-31.70	-17.27
Total (t)		15 258 670	14 026 120	12 138 650	11 973 060	11 556 965		

## Eritrea

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Copper (t)		7 900	17 300	16 008	21 725	20 224	156.00	-6.91
Zinc (t)		95 400	125 000	121 260	121 930	129 641	35.89	6.32
Gold (kg)		2 633	3 768	2 443	3 019	4 625	75.66	53.20
Silver (kg)		1 192	31 000	44 836	65 284	68 624	5 657.05	5.12
Gypsum (t)		12 000	18 000	18 000	18 000	18 000	50.00	0.00
Kaolin (t)		200	200	0	0	0	-100.00	.
Salt (t)		310 000	310 000	310 000	320 000	320 000	3.23	0.00
Total (t)		425 504	470 535	465 315	481 723	487 939		

## Estonia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Oil Shales (t)		21 625 000	21 883 000	15 697 400	12 144 400	11 743 000	-45.70	-3.31
Total (t)		21 625 000	21 883 000	15 697 400	12 144 400	11 743 000		

## Eswatini

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold (kg)		0	4	6	1	0	.	-100.00
Steam Coal (t)		202 277	144 375	109 926	161 768	162 681	-19.58	0.56
Total (t)		202 277	144 375	109 926	161 768	162 681		

## Ethiopia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium (t)		0	8 000	500	200	700	.	250.00
Niobium (t)		25	28	14	11	18	-28.00	63.64
Tantalum (t)		90	104	50	41	64	-28.89	56.10

Abbreviations: see Definitions

Gold	(kg)	5 390	3 495	2 800	7 500	9 600	78.11	28.00
Silver	(kg)	750	1 000	800	1 000	1 000	33.33	0.00
Diatomite	(t)	4 000	5 000	5 000	5 000	5 000	25.00	0.00
Gypsum	(t)	85 236	253 165	255 000	255 000	255 000	199.17	0.00
Kaolin	(t)	5 000	10 000	1 000	1 000	1 000	-80.00	0.00
Salt	(t)	60 654	122 850	125 000	125 000	125 000	106.09	0.00
Total	(t)	155 011	399 151	386 568	386 261	386 793		

## Fiji

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)		0	35 900	35 200	49 400	.	40.34
Bauxite	(t)	118 540	57 960	0	0	0	-100.00	.
Gold	(kg)	1 425	1 281	1 106	1 090	1 107	-22.32	1.56
Silver	(kg)	350	413	692	479	622	77.71	29.85
Total	(t)	118 541	57 961	35 902	35 201	49 402		

## Finland

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	411 060	466 750	491 930	470 620	472 890	15.04	0.48
Cobalt	(t)	2 300	1 377	1 454	1 559	1 084	-52.87	-30.47
Nickel	(t)	34 641	43 572	38 530	41 429	42 163	21.71	1.77
Copper	(t)	53 144	46 755	32 861	36 278	32 384	-39.06	-10.73
Lead	(t)		0	937	1 532	1 494	.	-2.48
Selenium	(t)	100	109	115	84	100	0.00	19.05
Zinc	(t)	66 284	85 067	69 800	61 213	59 080	-10.87	-3.48
Gold	(kg)	9 102	8 732	7 927	8 668	9 082	-0.22	4.78
Palladium	(kg)	1 021	1 157	699	858	1 036	1.47	20.75
Platinum	(kg)	1 418	1 576	953	1 277	1 447	2.05	13.31
Silver	(kg)	13 654	12 849	40 461	54 833	45 338	232.05	-17.32
Feldspar	(t)	14 926	17 469	17 997	16 137	52 706	253.12	226.62
Magnesite	(t)	63 850	49 601	37 002	136 167	179 781	181.57	32.03
Phosphates	(t)	352 300	356 070	363 020	363 200	363 720	3.24	0.14
Sulfur	(t)	937 000	888 300	811 600	794 900	737 600	-21.28	-7.21
Talc	(t)	354 819	374 398	329 891	278 331	296 833	-16.34	6.65
Total	(t)	2 290 449	2 329 493	2 195 187	2 201 516	2 239 891		

**Abbreviations:** see Definitions

## France

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	426 730	390 000	401 850	417 000	430 000	0.77	3.12
Bauxite	(t)	131 012	138 800	120 760	123 496	142 764	8.97	15.60
Indium	(t)	30	43	38	40	40	33.33	0.00
Bentonite	(t)	24 497	35 696	36 000	36 000	36 000	46.96	0.00
Diatomite	(t)	90 000	90 000	90 000	90 000	90 000	0.00	0.00
Feldspar	(t)	550 000	550 000	500 000	500 000	500 000	-9.09	0.00
Gypsum	(t)	3 014 296	5 314 983	3 259 935	1 891 190	3 370 757	11.83	78.23
Kaolin	(t)	279 120	301 842	392 389	231 579	289 057	3.56	24.82
Salt	(t)	4 739 491	4 689 054	5 160 260	5 200 596	5 543 040	16.95	6.58
Sulfur	(t)	500 000	500 000	500 000	450 000	450 000	-10.00	0.00
Talc	(t)	470 000	450 000	400 000	400 000	350 000	-25.53	-12.50
Nat. Gas	(Mio m <sup>3</sup> )	16	9	16	17	22	37.50	29.41
Oil Shales	(t)	2 000	2 000	2 000	2 000	2 000	0.00	0.00
Petroleum	(t)	758 000	774 100	719 800	644 700	647 830	-14.53	0.49
Total	(t)	10 997 976	13 243 718	11 595 832	10 000 201	11 869 088		

## French Guiana

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	1 486	1 320	1 157	1 058	1 188	-20.05	12.29
Total	(t)	1	1	1	1	1		

## Gabon

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	2 265 800	2 874 600	3 158 100	3 709 100	4 240 100	87.13	14.32
Gold	(kg)	620	83	107	55	200	-67.74	263.64
Nat. Gas	(Mio m <sup>3</sup> )	491	511	464	502	454	-7.54	-9.56
Petroleum	(t)	10 503 000	9 646 000	10 848 000	10 766 000	10 040 000	-4.41	-6.74
Total	(t)	13 161 601	12 929 400	14 377 300	14 876 700	14 643 300		

## Georgia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	171 300	210 500	170 600	202 400	217 900	27.20	7.66
Copper	(t)	9 400	9 100	9 500	8 000	8 130	-13.51	1.63
Gold	(kg)	3 032	2 913	4 052	5 401	3 513	15.86	-34.96
Silver	(kg)	21 000	20 042	4 100	11 200	12 700	-39.52	13.39

Abbreviations: see Definitions

Gypsum	(t)	85 470	91 700	137 831	87 655	90 000	5.30	2.68
Perlite	(t)	16 500	15 700	13 000	13 300	12 500	-24.24	-6.02
Steam Coal	(t)	268 100	137 900	15 300	99 300	147 900	-44.83	48.94
Nat. Gas	(Mio m <sup>3</sup> )	9	10	10	9	16	77.78	77.78
Petroleum	(t)	32 000	30 200	35 100	31 300	35 500	10.94	13.42
Total	(t)	589 994	503 123	389 339	449 171	524 747		

## Germany

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	82 900	82 900	94 100	95 500	87 500	5.55	-8.38
Aluminium	(t)	550 000	528 900	507 934	529 056	509 193	-7.42	-3.75
Cadmium	(t)	730	520	620	500	450	-38.36	-10.00
Copper	(t)	63	51	40	37	60	-4.76	62.16
Indium	(t)	10	0	0	0	0	-100.00	.
Selenium	(t)	300	300	300	300	300	0.00	0.00
Gold	(kg)	7	9	15	10	12	71.43	20.00
Silver	(kg)	6 000	5 000	4 000	4 000	6 000	0.00	50.00
Baryte	(t)	34 177	37 897	30 474	26 656	27 921	-18.30	4.75
Bentonite	(t)	416 000	379 000	366 000	333 000	363 000	-12.74	9.01
Diatomite	(t)	56 721	58 340	53 802	51 511	58 519	3.17	13.60
Feldspar	(t)	276 747	252 693	235 289	221 527	223 007	-19.42	0.67
Fluorspar	(t)	45 375	49 197	79 959	64 933	56 632	24.81	-12.78
Graphite	(t)	422	222	207	108	181	-57.11	67.59
Gypsum	(t)	4 450 000	4 550 000	4 850 000	5 200 000	5 470 000	22.92	5.19
Kaolin	(t)	5 168 000	4 930 000	4 760 000	4 969 000	5 291 000	2.38	6.48
Potash	(t)	2 963 561	2 754 085	2 615 284	2 874 026	2 793 326	-5.74	-2.81
Salt	(t)	15 535 669	16 229 929	16 627 893	14 226 154	17 668 456	13.73	24.20
Sulfur	(t)	537 882	419 597	460 012	353 293	382 049	-28.97	8.14
Steam Coal	(t)	1 483 200	1 212 700	0	0	0	-100.00	.
Coking Coal	(t)	2 185 300	1 370 800	0	0	0	-100.00	.
Lignite	(t)	171 285 700	166 258 000	131 314 000	107 377 260	126 256 594	-26.29	17.58
Nat. Gas	(Mio m <sup>3</sup> )	7 932	6 888	6 699	5 692	5 731	-27.75	0.69
Oil Shales	(t)	481 803	494 650	487 012	471 404	442 886	-8.08	-6.05
Petroleum	(t)	2 218 406	2 066 643	1 923 232	1 895 942	1 805 932	-18.59	-4.75
Uranium	(t)	40	0	28	8	0	-100.00	-100.00
Total	(t)	214 118 612	207 186 829	169 765 390	143 243 819	166 021 812		

## Ghana

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	871 000	1 320 000	1 507 200	660 100	934 200	7.26	41.52
Aluminium	(t)	40 500	42 867	43 908	37 566	39 239	-3.11	4.45
Bauxite	(t)	1 476 966	1 011 302	1 116 334	1 162 086	839 465	-43.16	-27.76
Gold	(kg)	143 438	149 057	142 371	125 114	87 676	-38.88	-29.92
Silver	(kg)	4 000	4 000	4 000	3 000	1 000	-75.00	-66.67

**Abbreviations:** see Definitions

Diam. (Gem)	(ct)	69 540	46 025	27 030	20 230	43 340	-37.68	114.24
Diam. (Ind)	(ct)	17 385	11 505	6 760	5 060	10 835	-37.68	114.13
Salt	(t)	250 000	330 000	300 000	330 000	300 000	20.00	-9.09
Nat. Gas	(Mio m <sup>3</sup> )	940	910	1 550	2 660	3 020	221.28	13.53
Petroleum	(t)	8 379 700	8 876 500	10 205 700	9 561 000	7 864 300	-6.15	-17.75
Total	(t)	11 770 313	12 308 822	14 413 288	13 878 880	12 393 293		

## Greece

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	0	16 650	12 080	790	800	.	1.27
Nickel	(t)	21 090	19 980	17 240	9 270	5 370	-74.54	-42.07
Aluminium	(t)	181 700	187 465	186 903	181 708	169 775	-6.56	-6.57
Bauxite	(t)	1 927 150	1 559 359	1 379 123	1 428 631	1 227 498	-36.31	-14.08
Lead	(t)	12 075	15 345	14 818	19 717	16 773	38.91	-14.93
Zinc	(t)	18 715	21 515	22 322	28 090	22 621	20.87	-19.47
Gold	(kg)	823	2 839	2 333	2 177	3 315	302.79	52.27
Silver	(kg)	34 220	39 150	37 790	51 111	44 086	28.83	-13.74
Bentonite	(t)	1 087 800	1 365 374	1 393 958	979 329	1 257 216	15.57	28.38
Gypsum	(t)	547 140	827 298	589 012	622 834	900 000	64.49	44.50
Magnesite	(t)	442 680	425 882	358 841	335 943	336 000	-24.10	0.02
Perlite	(t)	932 950	790 412	718 077	821 233	975 000	4.51	18.72
Salt	(t)	166 527	163 474	201 107	201 000	210 000	26.11	4.48
Sulfur	(t)	210 000	280 000	260 000	210 000	250 000	19.05	19.05
Lignite	(t)	37 802 600	36 574 360	27 383 575	13 866 637	12 081 578	-68.04	-12.87
Nat. Gas	(Mio m <sup>3</sup> )	8	12	9	6	4	-50.00	-33.33
Petroleum	(t)	139 551	201 786	164 905	89 715	58 750	-57.90	-34.51
Total	(t)	43 496 413	42 458 542	32 709 201	18 799 750	17 514 628		

## Guatemala

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	2 670	2 590	30	0	0	-100.00	.
Nickel	(t)	54 500	48 400	44 600	57 600	59 100	8.44	2.60
Antimony	(t)	0	0	150	50	0	.	-100.00
Lead	(t)	4 200	264	377	0	0	-100.00	.
Zinc	(t)	6 100	0	0	0	0	-100.00	.
Gold	(kg)	1 646	0	0	0	0	-100.00	.
Silver	(kg)	336 944	0	0	0	0	-100.00	.
Baryte	(t)	43	63	50	50	100	132.56	100.00
Bentonite	(t)	20 542	16 953	12 700	6 000	7 378	-64.08	22.97
Feldspar	(t)	29 145	30 257	28 771	25 578	34 232	17.45	33.83
Gypsum	(t)	135 154	132 897	140 901	423 281	138 552	2.51	-67.27

Abbreviations: see Definitions

Kaolin	(t)	657	724	700	402	295	-55.10	-26.62
Magnesite	(t)	16 298	4 745	4 500	6 000	14 100	-13.49	135.00
Talc	(t)	1 982	2 187	10	3 151	2 111	6.51	-33.01
Nat. Gas	(Mio m <sup>3</sup> )				0	72	.	.
Petroleum	(t)	480 000	458 800	478 200	389 000	355 500	-25.94	-8.61
Total	(t)	751 630	697 880	710 989	911 112	668 968		

## Guinea

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)			0	418 800	1 139 200	.	172.02
Bauxite	(t)	51 701 564	59 573 707	70 173 326	87 766 199	87 438 557	69.12	-0.37
Gold	(kg)	46 847	25 823	27 708	91 798	102 046	117.83	11.16
Diam. (Gem)	(ct)	136 090	219 530	171 880	96 430	204 990	50.63	112.58
Diam. (Ind)	(ct)	45 360	73 180	57 300	32 145	68 330	50.64	112.57
Total	(t)	51 701 611	59 573 733	70 173 354	88 185 091	88 577 859		

## Guyana

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bauxite	(t)	1 459 223	1 926 053	1 919 747	595 943	618 552	-57.61	3.79
Gold	(kg)	20 334	19 069	19 963	18 209	15 522	-23.66	-14.76
Diam. (Gem)	(ct)	39 120	46 580	41 240	14 430	33 830	-13.52	134.44
Diam. (Ind)	(ct)	13 040	15 530	13 750	4 810	11 280	-13.50	134.51
Petroleum	(t)		0	58 280	3 709 780	5 820 870	.	56.91
Total	(t)	1 459 243	1 926 072	1 978 047	4 305 741	6 439 438		

## Honduras

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Antimony	(t)	0	20	15	10	120	.	1 100.00
Lead	(t)	6 761	9 893	12 308	13 400	14 000	107.07	4.48
Zinc	(t)	20 437	28 422	29 454	30 200	32 300	58.05	6.95
Gold	(kg)	2 656	2 070	3 035	1 963	2 824	6.33	43.86
Silver	(kg)	21 785	31 182	45 174	40 400	37 495	72.11	-7.19
Gypsum	(t)	35 000	35 000	34 964	45 254	45 000	28.57	-0.56
Salt	(t)	59 000	63 500	49 900	61 200	63 500	7.63	3.76
Total	(t)	121 223	136 868	126 689	150 106	154 960		

**Abbreviations:** see Definitions



## Hungary

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bauxite	(t)	1 300	4 200	0	0	0	-100.00	.
Bentonite	(t)	24 630	25 000	41 500	42 000	42 000	70.52	0.00
Perlite	(t)	40 130	44 970	43 900	44 000	44 000	9.64	0.00
Lignite	(t)	7 974 130	7 898 689	6 846 837	6 125 178	4 987 686	-37.45	-18.57
Nat. Gas (Mio m <sup>3</sup> )		1 821	1 905	1 716	1 708	1 526	-16.20	-10.66
Petroleum	(t)	1 039 000	1 103 000	1 160 000	1 030 000	1 087 000	4.62	5.53
Total	(t)	10 535 990	10 599 859	9 465 037	8 607 578	7 381 486		

## Iceland

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	759 988	731 478	682 616	691 989	695 857	-8.44	0.56
Salt	(t)	5 000	5 000	5 000	5 000	5 000	0.00	0.00
Total	(t)	764 988	736 478	687 616	696 989	700 857		

## India

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	125 716 600	129 615 740	151 827 100	126 308 900	156 451 900	24.45	23.86
Chromium	(t)	1 609 010	1 864 070	1 832 600	1 270 200	1 698 900	5.59	33.75
Manganese	(t)	860 400	920 230	919 640	839 100	841 600	-2.19	0.30
Titanium	(t)	167 800	172 700	205 200	205 000	176 000	4.89	-14.15
Vanadium	(t)	0	442	76	100	100	.	0.00
Aluminium	(t)	3 400 618	3 696 181	3 635 089	3 619 237	4 012 000	17.98	10.85
Bauxite	(t)	22 786 106	23 689 619	21 825 227	20 380 548	22 493 947	-1.28	10.37
Cadmium	(t)	47	0	0	0	0	-100.00	.
Copper	(t)	31 550	32 530	28 585	25 260	26 580	-15.75	5.23
Lead	(t)	172 720	205 920	197 080	216 280	211 200	22.28	-2.35
Rare Earths	(t)	1 360	2 110	2 520	2 500	2 600	91.18	4.00
Selenium	(t)	17	17	17	20	20	17.65	0.00
Tin	(t)	13	16	12	13	20	53.85	53.85
Zinc	(t)	772 600	728 400	719 220	756 090	796 100	3.04	5.29
Gold	(kg)	1 651	1 664	1 742	1 127	1 251	-24.23	11.00
Silver	(kg)	557 691	679 386	609 340	705 795	647 140	16.04	-8.31
Baryte	(t)	2 050 215	2 488 756	2 739 035	2 500 000	2 500 000	21.94	0.00
Bentonite	(t)	3 488 264	3 661 450	3 605 000	3 740 000	3 550 000	1.77	-5.08
Diam. (Gem)	(ct)	12 940	13 877	10 301	5 010	0	-100.00	-100.00
Diam. (Ind)	(ct)	26 760	24 560	18 515	8 910	266	-99.01	-97.01
Feldspar	(t)	4 270 245	8 486 262	6 172 997	4 820 000	6 430 000	50.58	33.40
Fluorspar	(t)	1 314	1 079	1 315	1 052	1 237	-5.86	17.59
Graphite	(t)	33 649	39 030	34 674	35 386	57 264	70.18	61.83
Gypsum	(t)	2 048 127	4 664 046	3 006 046	6 788 200	3 547 250	73.19	-47.74
Kaolin	(t)	8 744 864	8 201 946	8 000 000	8 000 000	8 000 000	-8.52	0.00

Abbreviations: see Definitions

Magnesite	(t)	195 055	146 875	102 554	74 661	113 495	-41.81	52.01
Phosphates	(t)	360 220	342 890	332 940	337 800	323 750	-10.12	-4.16
Salt	(t)	28 949 400	30 033 300	28 066 000	26 553 000	26 602 000	-8.11	0.18
Sulfur	(t)	3 475 200	4 290 400	3 900 950	3 750 000	3 681 000	5.92	-1.84
Talc	(t)	1 652 367	1 682 825	1 748 963	1 720 000	1 575 000	-4.68	-8.43
Vermiculite	(t)	6 054	2 992	2 774	1 260	3 061	-49.44	142.94
Zircon	(t)	9 107	11 906	15 600	16 000	16 000	75.69	0.00
Steam Coal	(t)	635 252 000	687 586 000	677 938 000	671 296 000	726 488 000	14.36	8.22
Coking Coal	(t)	40 148 000	41 132 000	52 936 000	44 787 000	51 702 000	28.78	15.44
Lignite	(t)	46 644 000	44 283 000	42 096 000	37 895 000	47 490 000	1.81	25.32
Nat. Gas (Mio m <sup>3</sup> )		31 731	32 058	30 257	27 784	33 131	4.41	19.24
Petroleum	(t)	35 684 330	34 203 270	32 169 270	30 494 090	29 688 480	-16.80	-2.64
Uranium	(t)	496	499	363	472	725	46.17	53.60
Total	(t)	993 917 108	1 057 833 582	1 068 267 058	1 018 661 076	1 124 985 677		

## Indonesia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	1 075 800	600 000	1 379 300	2 951 100	3 300 000	206.75	11.82
Cobalt	(t)	350	350	350	1 000	2 100	500.00	110.00
Manganese	(t)	24 000	24 000	24 000	23 500	40 000	66.67	70.21
Nickel	(t)	363 000	651 600	1 036 200	816 700	1 173 200	223.20	43.65
Aluminium	(t)	215 192	219 306	233 457	220 089	200 577	-6.79	-8.87
Bauxite	(t)	1 733 380	11 023 850	16 592 740	25 859 895	25 781 187	1 387.34	-0.30
Copper	(t)	621 979	651 132	351 220	505 650	731 060	17.54	44.58
Lead	(t)	7 635	10 880	9 450	7 090	6 735	-11.79	-5.01
Tin	(t)	78 070	82 809	76 390	52 617	34 466	-55.85	-34.50
Zinc	(t)	13 800	21 100	25 215	20 390	14 780	7.10	-27.51
Gold	(kg)	101 510	135 250	108 900	66 190	72 660	-28.42	9.77
Silver	(kg)	328 780	308 810	487 400	338 100	295 920	-9.99	-12.48
Feldspar	(t)	2 601 000	749 300	480 800	287 400	313 200	-87.96	8.98
Kaolin	(t)	736 600	1 368 400	2 754 600	1 636 000	1 568 000	112.87	-4.16
Salt	(t)	1 021 321	2 719 256	2 852 125	1 365 711	1 100 000	7.70	-19.46
Sulfur	(t)	500 000	500 000	500 000	500 000	500 000	0.00	0.00
Zircon	(t)	29 500	53 700	73 100	77 200	54 630	85.19	-29.24
Steam Coal	(t)	490 409 256	543 919 000	594 796 500	561 979 900	564 815 700	15.17	0.50
Coking Coal	(t)	4 300 000	5 117 786	5 752 018	4 000 000	4 356 640	1.32	8.92
Nat. Gas (Mio m <sup>3</sup> )		72 270	72 570	67 160	59 180	58 960	-18.42	-0.37
Petroleum	(t)	39 879 800	38 434 800	37 104 200	35 367 913	32 786 100	-17.79	-7.30
Total	(t)	601 427 114	664 203 713	717 770 261	683 016 559	683 946 744		

**Abbreviations:** see Definitions

## Iran

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	21 884 000	24 700 000	28 305 000	33 660 000	34 980 000	59.84	3.92
Chromium	(t)	92 850	113 410	104 400	103 340	85 620	-7.79	-17.15
Manganese	(t)	33 915	45 595	50 240	63 580	93 940	176.99	47.75
Molybdenum	(t)	4 280	3 690	4 160	3 536	4 150	-3.04	17.36
Titanium	(t)	30 630	30 000	4 880	5 000	6 860	-77.60	37.20
Aluminium	(t)	337 608	304 800	258 166	424 475	543 715	61.05	28.09
Antimony	(t)	620	1 645	330	1 065	1 960	216.13	84.04
Arsenic	(t)	400	0	0	0	0	-100.00	.
Bauxite	(t)	804 510	866 683	828 788	1 042 325	883 950	9.87	-15.19
Copper	(t)	295 653	316 380	314 143	313 323	313 612	6.07	0.09
Lead	(t)	44 900	49 600	72 500	81 800	74 100	65.03	-9.41
Mercury	(t)	3	0	0	0	0	-100.00	.
Zinc	(t)	129 900	143 600	209 900	215 200	195 100	50.19	-9.34
Gold	(kg)	7 100	7 600	8 140	6 919	6 990	-1.55	1.03
Silver	(kg)	50 000	50 000	50 000	50 000	50 000	0.00	0.00
Baryte	(t)	514 711	477 227	247 207	285 756	297 469	-42.21	4.10
Bentonite	(t)	517 524	423 604	761 079	714 684	1 153 283	122.85	61.37
Boron	(t)	850	851	2 026	1 495	2 000	135.29	33.78
Diatomite	(t)	0	0	600	170	5 550	.	3 164.71
Feldspar	(t)	1 128 585	1 320 452	2 415 368	1 910 505	2 803 515	148.41	46.74
Fluorspar	(t)	55 297	55 000	54 824	55 000	55 000	-0.54	0.00
Gypsum	(t)	13 942 092	10 904 289	14 750 093	15 124 823	14 322 761	2.73	-5.30
Kaolin	(t)	861 938	1 158 983	1 813 395	1 923 895	1 348 232	56.42	-29.92
Magnesite	(t)	166 636	137 445	147 760	256 124	248 376	49.05	-3.03
Perlite	(t)	23 837	71 579	31 828	52 750	77 024	223.13	46.02
Phosphates	(t)	88 715	105 840	102 230	105 000	83 900	-5.43	-20.10
Potash	(t)	15 300	32 900	37 200	37 000	40 000	161.44	8.11
Salt	(t)	2 839 430	2 453 873	2 639 192	3 200 232	3 083 719	8.60	-3.64
Sulfur	(t)	2 200 000	2 200 000	2 200 000	2 200 000	2 000 000	-9.09	-9.09
Talc	(t)	86 514	73 259	49 650	61 665	74 537	-13.84	20.87
Steam Coal	(t)	138 000	400 000	485 000	450 000	650 000	371.01	44.44
Coking Coal	(t)	1 383 000	1 650 000	1 600 000	3 816 000	3 650 000	163.92	-4.35
Nat. Gas (Mio m <sup>3</sup> )		213 850	224 899	232 900	249 530	256 650	20.01	2.85
Petroleum	(t)	231 945 670	219 246 080	158 327 680	143 249 750	167 658 090	-27.72	17.04
Total	(t)	450 647 425	447 206 043	402 137 697	408 982 550	440 056 520		

## Iraq

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	1 000 000	1 000 000	1 000 000	1 000 000	1 000 000	0.00	0.00
Phosphates	(t)	40 000	377 120	300 000	300 000	300 000	650.00	0.00
Salt	(t)	237 350	271 500	270 000	300 000	300 000	26.40	0.00
Sulfur	(t)	40 000	40 000	40 000	40 000	74 000	85.00	85.00
Nat. Gas (Mio m <sup>3</sup> )		10 120	10 574	10 967	7 005	9 355	-7.56	33.55
Petroleum	(t)	222 381 850	227 012 450	234 220 100	202 037 850	200 829 370	-9.69	-0.60
Total	(t)	231 795 200	237 160 270	244 603 700	209 281 850	209 987 370		

Abbreviations: see Definitions

## Ireland

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Lead	(t)	17 100	16 712	16 053	14 401	13 192	-22.85	-8.40
Zinc	(t)	130 600	131 742	122 463	127 008	112 249	-14.05	-11.62
Silver	(kg)	1 344	1 160	1 578	918	1 342	-0.15	46.19
Gypsum	(t)	200 000	200 000	200 000	150 000	110 000	-45.00	-26.67
Nat. Gas	(Mio m <sup>3</sup> )	3 170	3 060	2 390	1 840	1 400	-55.84	-23.91
Total	(t)	2 883 701	2 796 455	2 250 518	1 763 410	1 355 442		

## Israel

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	116 000	75 800	72 000	0	0	-100.00	.
Phosphates	(t)	1 032 900	1 100 500	898 200	988 800	777 900	-24.69	-21.33
Potash	(t)	2 126 700	2 149 300	2 043 500	2 415 600	2 379 000	11.86	-1.52
Salt	(t)	514 100	377 000	301 000	275 200	260 000	-49.43	-5.52
Nat. Gas	(Mio m <sup>3</sup> )	8 470	9 010	9 035	13 305	16 623	96.26	24.94
Oil Shales	(t)	426 000	414 580	402 882	392 990	430 840	1.14	9.63
Petroleum	(t)	64 308	73 933	84 020	130 427	164 765	156.21	26.33
Total	(t)	11 056 008	11 399 113	11 029 602	14 847 017	17 310 905		

## Italy

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bentonite	(t)	86 106	100 067	82 720	65 989	32 252	-62.54	-51.13
Feldspar	(t)	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	0.00	0.00
Gypsum	(t)	469 044	188 618	298 242	163 749	0	-100.00	-100.00
Kaolin	(t)	200 000	300 000	250 000	200 000	180 000	-10.00	-10.00
Salt	(t)	2 283 406	1 514 829	1 538 072	1 192 956	1 500 458	-34.29	25.78
Sulfur	(t)	846 900	809 900	1 261 100	458 700	613 100	-27.61	33.66
Talc	(t)	165 000	165 000	160 000	165 000	165 000	0.00	0.00
Steam Coal	(t)	47 000	0	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	5 538	5 443	4 852	4 117	3 343	-39.64	-18.80
Petroleum	(t)	4 138 000	4 684 200	4 279 000	5 383 940	4 922 000	18.95	-8.58
Total	(t)	14 865 856	14 317 014	13 950 734	13 123 934	12 287 210		

**Abbreviations:** see Definitions

## Jamaica

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bauxite	(t)	8 244 628	10 058 228	9 022 286	7 546 139	5 949 600	-27.84	-21.16
Gypsum	(t)	46 000	47 000	55 000	66 000	66 000	43.48	0.00
Salt	(t)	12 565	10 000	10 000	10 000	10 000	-20.41	0.00
Total	(t)	8 303 193	10 115 228	9 087 286	7 622 139	6 025 600		

## Japan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Arsenic	(t)	45	45	45	40	40	-11.11	0.00
Bismuth	(t)	525	571	540	570	500	-4.76	-12.28
Cadmium	(t)	2 142	1 980	1 783	1 880	1 900	-11.30	1.06
Gallium	(t)	3	3	3	3	3	0.00	0.00
Germanium	(t)	2	2	2	2	2	0.00	0.00
Indium	(t)	70	70	70	66	66	-5.71	0.00
Selenium	(t)	792	768	740	740	720	-9.09	-2.70
Tellurium	(t)	38	58	50	70	68	78.95	-2.86
Gold	(kg)	6 369	6 453	6 313	7 590	6 225	-2.26	-17.98
Silver	(kg)	3 408	3 596	3 467	4 192	3 339	-2.02	-20.35
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)	926 000	929 000	903 000	874 000	855 000	-7.67	-2.17
Sulfur	(t)	3 372 500	3 408 300	3 259 000	3 140 500	3 150 100	-6.59	0.31
Talc	(t)	365 000	160 000	160 000	160 000	160 000	-56.16	0.00
Nat. Gas	(Mio m <sup>3</sup> )	3 008	2 707	2 524	2 295	2 305	-23.37	0.44
Petroleum	(t)	505 400	449 000	470 200	461 000	441 200	-12.70	-4.30
Total	(t)	7 840 926	7 377 407	7 076 642	6 736 883	6 715 608		

## Jordan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	344 191	190 606	264 724	184 917	399 968	16.21	116.30
Kaolin	(t)	11 000	11 000	11 000	11 000	11 000	0.00	0.00
Phosphates	(t)	2 780 030	2 567 170	2 951 470	2 860 140	3 204 880	15.28	12.05
Potash	(t)	1 415 260	1 485 960	1 516 460	1 598 200	1 563 430	10.47	-2.18
Salt	(t)	48 985	48 901	36 850	39 088	42 359	-13.53	8.37
Sulfur	(t)	274 350	279 910	255 060	282 200	316 540	15.38	12.17
Nat. Gas	(Mio m <sup>3</sup> )	102	93	99	150	184	80.39	22.67
Petroleum	(t)	300	1 000	1 600	2 500	14 300	4 666.67	472.00
Total	(t)	4 955 716	4 658 947	5 116 364	5 098 045	5 699 677		

Abbreviations: see Definitions

## Kazakhstan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	11 705 660	12 968 800	14 278 750	15 105 100	15 966 300	36.40	5.70
Chromium	(t)	2 193 500	2 378 200	2 458 800	1 977 900	1 901 500	-13.31	-3.86
Manganese	(t)	294 900	288 300	230 700	164 300	252 300	-14.45	53.56
Molybdenum	(t)	35	149	258	384	880	2 414.29	129.17
Titanium	(t)	65 000	65 000	60 000	28 000	20 000	-69.23	-28.57
Aluminium	(t)	254 000	258 400	264 895	265 665	262 361	3.29	-1.24
Antimony	(t)	350	150	0	0	0	-100.00	.
Bauxite	(t)	4 846 100	6 104 200	4 118 400	4 057 800	4 370 100	-9.82	7.70
Bismuth	(t)	200	159	200	270	250	25.00	-7.41
Cadmium	(t)	2 690	850	1 200	1 500	1 500	-44.24	0.00
Copper	(t)	540 700	632 550	604 970	548 760	511 940	-5.32	-6.71
Lead	(t)	111 200	86 500	55 700	30 200	29 900	-73.11	-0.99
Rhenium	(kg)	2 600	1 600	1 000	1 000	1 000	-61.54	0.00
Selenium	(t)	40	10	10	0	0	-100.00	.
Zinc	(t)	345 000	346 000	321 900	335 400	318 000	-7.83	-5.19
Gold	(kg)	85 339	100 288	106 559	116 964	114 843	34.57	-1.81
Silver	(kg)	1 041 838	969 347	1 022 068	1 035 181	1 004 789	-3.56	-2.94
Asbestos	(t)	192 700	202 900	210 700	227 400	250 100	29.79	9.98
Baryte	(t)	569 900	773 200	530 600	445 300	1 016 500	78.36	128.27
Bentonite	(t)	120 000	120 000	52 000	59 200	60 000	-50.00	1.35
Boron	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Gypsum	(t)	133 200	121 400	78 200	94 500	184 700	38.66	95.45
Phosphates	(t)	368 400	381 200	388 540	456 010	426 420	15.75	-6.49
Salt	(t)	803 794	885 717	1 094 659	1 237 455	1 231 996	53.27	-0.44
Sulfur	(t)	3 789 700	3 218 250	3 834 100	3 876 400	3 993 100	5.37	3.01
Steam Coal	(t)	90 910 400	101 085 800	98 593 000	97 924 100	102 638 200	12.90	4.81
Coking Coal	(t)	15 749 700	10 836 000	10 478 500	10 052 900	8 751 800	-44.43	-12.94
Lignite	(t)	5 739 000	6 560 700	5 929 100	5 422 100	4 828 700	-15.86	-10.94
Nat. Gas	(Mio m <sup>3</sup> )	31 587	36 350	33 100	32 810	29 400	-6.92	-10.39
Petroleum	(t)	86 194 400	90 359 500	90 555 500	85 656 100	85 877 800	-0.37	0.26
Uranium	(t)	27 500	25 595	26 895	22 967	25 729	-6.44	12.03
Total	(t)	250 258 799	266 810 601	260 678 707	254 268 864	256 471 197		

## Kenya

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	2 700	7 000	16 600	13 600	28 500	955.56	109.56
Titanium	(t)	345 560	340 150	262 660	256 410	254 210	-26.44	-0.86
Gold	(kg)	503	472	395	150	292	-41.95	94.67
Diatomite	(t)	1 406	1 548	921	928	763	-45.73	-17.78
Fluorspar	(t)	6 945	0	0	0	0	-100.00	.
Gypsum	(t)	5 700	5 700	5 700	5 700	6 000	5.26	5.26
Kaolin	(t)	1 000	1 000	1 000	800	900	-10.00	12.50

Abbreviations: see Definitions

Salt	(t)	43 245	28 841	13 728	4 703	7 099	-83.58	50.95
Vermiculite	(t)	0	0	100	0	400	.	.
Zircon	(t)	42 217	36 387	30 440	31 730	28 933	-31.47	-8.82
Petroleum	(t)		0	32 400	41 000	0	.	-100.00
Total	(t)	448 774	420 626	363 549	354 871	326 805		

## Korea, North

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	3 645 500	2 082 800	1 796 400	1 640 800	1 600 000	-56.11	-2.49
Molybdenum	(t)	480	560	530	100	100	-79.17	0.00
Tungsten	(t)	310	1 410	1 130	410	50	-83.87	-87.80
Cadmium	(t)	200	200	150	150	150	-25.00	0.00
Copper	(t)	15 000	15 000	2 000	2 000	2 000	-86.67	0.00
Lead	(t)	31 600	35 000	25 000	24 000	25 000	-20.89	4.17
Zinc	(t)	36 000	30 000	25 700	25 000	28 000	-22.22	12.00
Gold	(kg)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Silver	(kg)	70 000	70 000	50 000	50 000	50 000	-28.57	0.00
Baryte	(t)	4 200	4 200	4 000	4 000	4 000	-4.76	0.00
Fluorspar	(t)	6 900	6 900	6 900	6 900	6 000	-13.04	-13.04
Graphite	(t)	50 000	45 000	45 000	45 000	30 000	-40.00	-33.33
Magnesite	(t)	172 488	100 000	100 000	100 000	100 000	-42.02	0.00
Salt	(t)	500 000	500 000	500 000	500 000	500 000	0.00	0.00
Sulfur	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Talc	(t)	40 000	40 000	40 000	30 000	30 000	-25.00	0.00
Steam Coal	(t)	22 271 000	16 899 000	20 210 000	19 000 000	20 000 000	-10.20	5.26
Total	(t)	26 783 758	19 770 150	22 766 870	21 388 420	22 335 360		

## Korea, South

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	186 330	229 530	205 410	345 140	323 140	73.42	-6.37
Molybdenum	(t)	0	1	266	411	408	.	-0.73
Titanium	(t)	122 670	117 250	162 790	158 340	177 420	44.63	12.05
Cadmium	(t)	4 960	5 100	3 950	4 100	4 000	-19.35	-2.44
Copper	(t)	7	0	0	0	0	-100.00	.
Gallium	(t)	3	3	2	2	2	-33.33	0.00
Indium	(t)	215	235	225	210	190	-11.63	-9.52
Lead	(t)	3 760	2 340	1 930	1 680	1 530	-59.31	-8.93
Zinc	(t)	3 320	3 660	4 110	4 250	4 370	31.63	2.82
Gold	(kg)	285	239	181	170	162	-43.16	-4.71
Silver	(kg)	8 863	7 090	5 245	7 203	10 001	12.84	38.84

Abbreviations: see Definitions

Bentonite	(t)	47 306	31 824	43 886	5 314	34 243	-27.61	544.39
Diatomite	(t)	133 741	25 902	40 910	65 240	49 616	-62.90	-23.95
Feldspar	(t)	717 177	617 166	396 898	415 426	987 309	37.67	137.66
Graphite	(t)	0	670	302	3 052	18 297	.	499.51
Kaolin	(t)	416 648	369 274	317 626	393 236	352 003	-15.52	-10.49
Salt	(t)	308 844	282 590	261 970	176 247	280 876	-9.06	59.36
Sulfur	(t)	2 000 000	2 000 000	2 000 000	2 000 000	2 000 000	0.00	0.00
Talc	(t)	434 292	348 648	330 250	315 446	355 104	-18.23	12.57
Steam Coal	(t)	1 485 582	1 201 920	1 084 000	1 019 000	897 900	-39.56	-11.88
Nat. Gas (Mio m <sup>3</sup> )		326	293	248	177	53	-83.74	-70.06
Petroleum	(t)	29 610	25 730	21 130	13 990	4 800	-83.79	-65.69
Total	(t)	6 155 274	5 496 250	5 074 060	5 062 691	5 533 618		

## Kosovo

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nickel	(t)	7 120	4 790	3 360	4 150	4 960	-30.34	19.52
Lead	(t)	5 100	4 700	3 960	3 870	5 250	2.94	35.66
Zinc	(t)	4 500	3 600	3 050	3 890	3 620	-19.56	-6.94
Lignite	(t)	7 574 697	7 169 767	8 063 051	8 537 948	8 535 436	12.68	-0.03
Total	(t)	7 591 417	7 182 857	8 073 421	8 549 858	8 549 266		

## Kuwait

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	58 250	59 300	58 600	59 000	60 000	3.00	1.69
Sulfur	(t)	556 800	671 000	623 300	649 800	959 000	72.23	47.58
Nat. Gas (Mio m <sup>3</sup> )		16 892	17 925	17 516	17 522	17 400	3.01	-0.70
Petroleum	(t)	134 633 070	136 244 500	133 309 720	121 347 440	120 264 800	-10.67	-0.89
Total	(t)	148 761 720	151 314 800	148 004 420	136 073 840	135 203 800		

## Kyrgyzstan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Antimony	(t)	1 380	680	20	20	0	-100.00	-100.00
Copper	(t)	8 956	8 813	8 640	6 500	8 100	-9.56	24.62
Mercury	(t)	10	88	20	20	10	0.00	-50.00
Gold	(kg)	22 795	22 602	26 127	24 150	24 870	9.10	2.98
Silver	(kg)	19 212	18 328	19 010	16 127	16 549	-13.86	2.62
Gypsum	(t)	100 000	152 842	150 000	23 019	31 680	-68.32	37.63
Kaolin	(t)	40 000	15 000	15 000	15 000	15 000	-62.50	0.00
Salt	(t)	6 000	4 665	5 605	6 000	6 000	0.00	0.00

**Abbreviations:** see Definitions



Steam Coal	(t)	246 500	316 200	346 500	522 200	571 500	131.85	9.44
Lignite	(t)	1 628 900	2 079 000	2 259 500	1 997 500	2 418 400	48.47	21.07
Nat. Gas	(Mio m <sup>3</sup> )	26	27	24	22	22	-15.38	0.00
Petroleum	(t)	173 200	200 000	233 100	239 200	275 600	59.12	15.22
Total	(t)	2 225 788	2 798 929	3 037 630	2 827 099	3 343 932		

## Laos

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	150 000	59 500	282 180	607 830	2 113 560	1 309.04	247.72
Antimony	(t)	320	330	70	0	240	-25.00	.
Copper	(t)	153 304	154 948	140 935	88 163	38 349	-74.98	-56.50
Lead	(t)	660	330	250	90	170	-74.24	88.89
Tin	(t)	975	430	530	600	890	-8.72	48.33
Zinc	(t)	0	3 080	1 250	860	5 400	.	527.91
Gold	(kg)	5 988	5 579	5 207	5 097	8 742	45.99	71.51
Silver	(kg)	42 841	37 465	34 443	29 075	26 998	-36.98	-7.14
Baryte	(t)	33 325	35 000	48 600	96 278	37 403	12.24	-61.15
Gypsum	(t)	463 039	618 783	606 387	737 749	1 221 959	163.90	65.63
Potash	(t)	307 600	343 500	286 900	442 500	507 600	65.02	14.71
Salt	(t)	37 490	46 863	10 079	3 951	6 846	-81.74	73.27
Steam Coal	(t)	133 284	142 994	161 494	320 231	698 521	424.08	118.13
Lignite	(t)	13 439 492	15 903 277	15 263 562	14 366 628	13 618 072	1.33	-5.21
Total	(t)	14 719 538	17 309 078	16 802 276	16 664 914	18 249 046		

## Latvia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	278 260	320 080	318 450	359 190	383 990	38.00	6.90
Total	(t)	278 260	320 080	318 450	359 190	383 990		

## Lebanon

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	3 000	3 000	3 000	3 000	3 000	0.00	0.00
Total	(t)	3 000	3 000	3 000	3 000	3 000		

Abbreviations: see Definitions

## Lesotho

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Diam. (Gem)	(ct)	1 126 409	1 294 283	1 113 526	481 243	339 452	-69.86	-29.46
Total	(t)	0	0	0	0	0		

## Liberia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	962 900	2 794 300	2 657 200	2 924 600	3 000 000	211.56	2.58
Gold	(kg)	6 071	7 289	5 068	4 396	7 860	29.47	78.80
Diam. (Gem)	(ct)	36 380	45 330	33 560	32 760	37 820	3.96	15.45
Diam. (Ind)	(ct)	24 250	30 220	22 370	21 840	25 210	3.96	15.43
Total	(t)	962 906	2 794 307	2 657 205	2 924 604	3 000 008		

## Libya

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	150 000	150 000	200 000	200 000	200 000	33.33	0.00
Salt	(t)	30 000	30 000	30 000	30 000	40 000	33.33	33.33
Sulfur	(t)	133 300	133 000	130 000	130 000	130 000	-2.48	0.00
Nat. Gas	(Mio m <sup>3</sup> )	14 310	13 880	14 190	17 714	15 236	6.47	-13.99
Petroleum	(t)	43 757 120	47 110 900	54 317 500	19 388 800	60 113 100	37.38	210.04
Total	(t)	55 518 420	58 527 900	66 029 500	33 920 000	72 671 900		

## Lithuania

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Sulfur	(t)	93 970	93 960	86 040	71 250	72 990	-22.33	2.44
Petroleum	(t)	55 830	46 030	39 570	31 630	28 920	-48.20	-8.57
Total	(t)	149 800	139 990	125 610	102 880	101 910		

## Madagascar

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	102 000	53 500	37 300	6 100	5 900	-94.22	-3.28
Cobalt	(t)	2 967	2 887	2 897	833	1 986	-33.06	138.42
Nickel	(t)	34 123	33 204	33 736	9 908	27 710	-18.79	179.67
Titanium	(t)	230 700	214 900	252 200	280 600	324 800	40.79	15.75

**Abbreviations:** see Definitions

Beryllium	(t)	140	140	30	30	30	-78.57	0.00
Rare Earths	(t)	0	2 400	3 200	4 300	4 100	.	-4.65
Gold	(kg)	2 834	3 052	2 423	1 779	2 000	-29.43	12.42
Graphite	(t)	13 300	52 951	45 106	61 405	88 110	562.48	43.49
Salt	(t)	110 000	110 000	110 000	110 000	110 000	0.00	0.00
Zircon	(t)	25 950	22 757	29 473	26 029	23 100	-10.98	-11.25
Total	(t)	519 183	492 742	513 944	499 207	585 738		

## Malawi

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	3 000	1 540	1 800	3 010	2 990	-0.33	-0.66
Phosphates	(t)	170	270	300	0	0	-100.00	.
Steam Coal	(t)	45 230	49 753	54 728	54 876	30 251	-33.12	-44.87
Total	(t)	48 400	51 563	56 828	57 886	33 241		

## Malaysia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	2 469 370	2 112 790	2 621 100	3 383 990	3 070 930	24.36	-9.25
Manganese	(t)	514 950	530 340	474 910	365 340	280 790	-45.47	-23.14
Tantalum	(t)	6	27	2	1	1	-83.33	0.00
Titanium	(t)	8 500	12 600	6 930	6 280	13 470	58.47	114.49
Aluminium	(t)	760 000	760 000	760 000	980 700	901 000	18.55	-8.13
Bauxite	(t)	830 000	589 685	900 561	594 715	47 577	-94.27	-92.00
Rare Earths	(t)	180	990	70	10	30	-83.33	200.00
Tin	(t)	4 819	3 868	3 611	2 963	3 193	-33.74	7.76
Gold	(kg)	2 124	2 978	3 151	1 716	1 781	-16.15	3.79
Silver	(kg)	1 404	1 542	686	423	672	-52.14	58.87
Feldspar	(t)	411 204	414 441	241 189	240 000	168 570	-59.01	-29.76
Kaolin	(t)	444 559	496 219	400 722	336 565	228 605	-48.58	-32.08
Zircon	(t)	1 595	509	449	157	1 518	-4.83	866.88
Steam Coal	(t)	2 988 211	2 652 814	3 459 122	2 978 248	3 115 316	4.25	4.60
Nat. Gas (Mio m <sup>3</sup> )		70 290	66 212	68 700	63 370	67 520	-3.94	6.55
Petroleum	(t)	32 887 600	32 509 900	30 384 800	27 679 100	25 467 600	-22.56	-7.99
Total	(t)	97 552 997	93 053 788	94 213 470	87 264 071	87 314 603		

Abbreviations: see Definitions

## Mali

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	49 622	60 893	66 739	71 200	69 400	39.86	-2.53
Silver	(kg)	2 900	2 844	3 000	3 000	3 000	3.45	0.00
Total	(t)	53	64	70	74	72		

## Malta

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
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

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	7 678 500	6 961 700	7 927 700	8 135 000	8 201 700	6.81	0.82
Copper	(t)	28 791	28 137	29 620	28 491	18 846	-34.54	-33.85
Gold	(kg)	9 096	9 236	13 554	14 125	6 499	-28.55	-53.99
Gypsum	(t)	80 000	130 000	130 000	120 000	70 000	-12.50	-41.67
Petroleum	(t)	165 600	0	0	0	0	-100.00	.
Total	(t)	7 952 900	7 119 846	8 087 334	8 283 505	8 290 552		

## Mauritius

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Salt	(t)	1 000	1 000	1 500	2 200	2 200	120.00	0.00
Total	(t)	1 000	1 000	1 500	2 200	2 200		

## Mexico

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	7 027 520	8 412 810	10 331 270	10 774 600	10 800 000	53.68	0.24
Manganese	(t)	218 510	209 023	232 957	258 045	220 560	0.94	-14.53
Molybdenum	(t)	13 985	20 265	21 694	20 577	16 319	16.69	-20.69
Tungsten	(t)		45	15	32	0	.	-100.00

Abbreviations: see Definitions

Antimony	(t)	240	300	289	136	413	72.08	203.68
Bismuth	(t)	513	313	291	0	0	-100.00	.
Cadmium	(t)	1 142	1 307	952	978	1 051	-7.97	7.46
Copper	(t)	742 246	696 580	713 704	800 316	734 137	-1.09	-8.27
Lead	(t)	243 022	230 869	372 106	468 486	272 231	12.02	-41.89
Mercury	(t)	200	230	50	70	40	-80.00	-42.86
Selenium	(t)	112	107	127	106	135	20.54	27.36
Zinc	(t)	671 444	662 355	859 194	1 008 252	742 926	10.65	-26.32
Gold	(kg)	126 820	141 143	133 893	142 787	124 776	-1.61	-12.61
Silver	(kg)	5 815 034	7 243 341	7 485 602	7 424 554	6 118 000	5.21	-17.60
Baryte	(t)	359 912	366 234	415 180	480 954	320 642	-10.91	-33.33
Bentonite	(t)	148 475	264 800	24 321	79 219	80 000	-46.12	0.99
Diatomite	(t)	96 474	152 028	129 274	144 105	160 956	66.84	11.69
Feldspar	(t)	500 692	907 755	516 196	903 385	372 102	-25.68	-58.81
Fluorspar	(t)	741 678	1 959 654	1 931 532	1 571 269	1 007 118	35.79	-35.90
Graphite	(t)	10 310	4 130	2 342	2 033	1 778	-82.75	-12.54
Gypsum	(t)	9 197 520	11 275 293	7 759 139	7 977 953	6 386 777	-30.56	-19.94
Kaolin	(t)	325 864	898 246	246 645	236 033	223 332	-31.46	-5.38
Magnesite	(t)	101 000	101 000	800	0	0	-100.00	.
Perlite	(t)	15 899	26 400	24 497	0	0	-100.00	.
Phosphates	(t)	692 150	222 500	249 520	91 240	136 900	-80.22	50.04
Salt	(t)	9 570 779	9 392 052	8 845 239	9 084 859	7 644 755	-20.12	-15.85
Sulfur	(t)	551 218	442 657	377 381	264 078	219 439	-60.19	-16.90
Talc	(t)	7 129	8 448	7 202	29 122	29 000	306.79	-0.42
Vermiculite	(t)	464	244	148	104	100	-78.45	-3.85
Steam Coal	(t)	7 528 900	6 772 528	6 175 726	3 357 000	2 831 000	-62.40	-15.67
Coking Coal	(t)	4 566 000	3 897 000	3 275 000	3 897 000	4 165 000	-8.78	6.88
Nat. Gas (Mio m <sup>3</sup> )		30 470	29 860	29 370	28 590	27 170	-10.83	-4.97
Petroleum	(t)	109 084 360	101 605 440	94 161 830	93 860 550	94 785 920	-13.11	0.99
Total	(t)	176 799 700	172 425 997	160 178 241	158 190 070	152 894 874		

## Moldova

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	358 500	352 500	276 400	292 600	307 900	-14.11	5.23
Petroleum	(t)	5 000	5 100	5 032	5 032	4 972	-0.56	-1.19
Total	(t)	363 500	357 600	281 432	297 632	312 872		

## Mongolia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	4 309 030	3 486 220	4 800 430	5 165 660	5 136 260	19.20	-0.57
Molybdenum	(t)	2 640	2 580	2 490	2 890	2 975	12.69	2.94
Tungsten	(t)	523	430	370	35	120	-77.06	242.86

Abbreviations: see Definitions

Copper	(t)	314 920	309 750	290 980	291 010	303 030	-3.78	4.13
Lead	(t)	7 390	11 320	13 500	12 400	9 700	31.26	-21.77
Tin	(t)	20	25	20	0	1 160	5 700.00	.
Zinc	(t)	41 350	43 950	41 550	38 150	39 490	-4.50	3.51
Gold	(kg)	19 849	20 655	16 235	20 226	19 054	-4.01	-5.79
Silver	(kg)	67 190	69 120	79 864	77 762	79 035	17.63	1.64
Fluorspar	(t)	319 330	555 230	699 400	678 900	644 300	101.77	-5.10
Gypsum	(t)	56 000	47 700	107 100	97 900	111 400	98.93	13.79
Salt	(t)	860	997	533	2 624	1 349	56.86	-48.59
Steam Coal	(t)	6 286 990	6 914 400	6 683 100	5 394 200	4 077 410	-35.15	-24.41
Coking Coal	(t)	25 672 000	27 073 750	28 962 970	25 821 930	19 518 500	-23.97	-24.41
Lignite	(t)	6 783 000	7 449 000	8 053 080	6 657 650	5 309 755	-21.72	-20.25
Petroleum	(t)	1 039 900	871 500	937 900	560 000	636 600	-38.78	13.68
Uranium	(t)		0	0	1	4	.	300.00
Total	(t)	44 834 040	46 766 942	50 593 519	44 723 448	35 792 151		

## Montenegro

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	39 379	40 163	36 522	37 208	45 214	14.82	21.52
Bauxite	(t)	927 847	468 164	774 725	791 813	526 760	-43.23	-33.47
Lead	(t)	3 050	3 100	3 480	640	0	-100.00	-100.00
Zinc	(t)	8 820	10 670	9 520	10 130	9 360	6.12	-7.60
Lignite	(t)	1 474 800	1 595 900	1 605 200	1 665 449	1 548 612	5.00	-7.02
Total	(t)	2 453 896	2 117 997	2 429 447	2 505 240	2 129 946		

## Morocco

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	36 120	18 520	7 150	14 090	8 870	-75.44	-37.05
Cobalt	(t)	1 924	1 806	2 397	2 416	1 796	-6.65	-25.66
Manganese	(t)	49 500	39 770	35 600	42 050	41 250	-16.67	-1.90
Nickel	(t)	196	126	131	142	147	-25.00	3.52
Arsenic	(t)	6 879	5 578	5 055	7 694	6 883	0.06	-10.54
Copper	(t)	35 420	32 430	30 720	31 750	50 340	42.12	58.55
Lead	(t)	38 040	30 360	32 770	38 190	31 340	-17.61	-17.94
Mercury	(t)	10	5	2	2	2	-80.00	0.00
Zinc	(t)	51 700	57 700	43 570	35 810	40 230	-22.19	12.34
Gold	(kg)	220	386	221	143	147	-33.18	2.80
Silver	(kg)	277 130	200 530	216 580	189 220	194 360	-29.87	2.72
Baryte	(t)	818 016	899 365	1 119 811	501 939	840 486	2.75	67.45
Bentonite	(t)	174 546	172 749	188 081	92 387	134 340	-23.03	45.41
Feldspar	(t)	101 064	75 298	101 947	185 772	427 387	322.89	130.06

**Abbreviations:** see Definitions

Fluorspar	(t)	75 509	87 874	73 244	83 833	189 012	150.32	125.46
Phosphates	(t)	10 490 100	10 960 200	11 267 500	11 959 000	12 176 200	16.07	1.82
Salt	(t)	659 263	691 637	854 397	490 896	295 741	-55.14	-39.75
Nat. Gas	(Mio m <sup>3</sup> )	81	87	99	98	110	35.80	12.24
Petroleum	(t)	4 640	4 840	4 335	4 098	3 246	-30.04	-20.79
Total	(t)	12 608 004	13 148 059	13 846 127	13 568 658	14 335 464		

## Mozambique

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Niobium	(t)	10	12	11	17	14	40.00	-17.65
Tantalum	(t)	57	66	59	94	75	31.58	-20.21
Titanium	(t)	725 200	701 400	786 900	874 000	1 126 800	55.38	28.92
Aluminium	(t)	577 495	571 125	564 756	571 125	564 756	-2.21	-1.12
Bauxite	(t)	3 182	9 912	8 024	6 491	7 852	146.76	20.97
Beryllium	(t)	53	416	45	80	330	522.64	312.50
Gold	(kg)	166	507	430	488	764	360.24	56.56
Bentonite	(t)	285	1 091	77 734	80 189	118 692	41 546.32	48.02
Diatomite	(t)	0	34 200	72 439	35 257	72 914	.	106.81
Graphite	(t)	802	104 000	153 000	18 159	77 116	9 515.46	324.67
Salt	(t)	21 458	27 729	50 740	38 377	34 453	60.56	-10.22
Zircon	(t)	159 664	202 022	121 768	104 076	123 011	-22.96	18.19
Steam Coal	(t)	4 391 833	6 891 201	4 983 146	3 370 585	5 346 781	21.74	58.63
Coking Coal	(t)	7 385 930	8 355 292	5 356 390	4 670 626	5 732 902	-22.38	22.74
Nat. Gas	(Mio m <sup>3</sup> )	5 110	5 120	4 597	4 541	4 593	-10.12	1.15
Petroleum	(t)	55 790	51 810	41 250	38 350	36 330	-34.88	-5.27
Total	(t)	17 409 759	21 046 277	15 893 862	13 440 226	16 916 427		

## Myanmar

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	136 600	207 500	429 000	254 000	206 100	50.88	-18.86
Nickel	(t)	29 250	17 750	14 200	22 000	18 100	-38.12	-17.73
Tungsten	(t)	330	190	130	80	40	-87.88	-50.00
Antimony	(t)	4 500	2 640	4 800	6 600	2 870	-36.22	-56.52
Copper	(t)	126 930	179 310	219 200	196 500	200 360	57.85	1.96
Lead	(t)	14 890	24 930	35 090	27 000	12 900	-13.36	-52.22
Rare Earths	(t)	5 000	20 400	17 100	21 000	27 100	442.00	29.05
Tin	(t)	67 300	54 500	38 900	33 440	33 930	-49.58	1.47
Zinc	(t)	13 150	12 240	13 680	11 310	6 200	-52.85	-45.18
Gold	(kg)	1 620	467	267	871	773	-52.28	-11.25
Baryte	(t)	3 206	9 658	12 439	2 642	2 220	-30.75	-15.97
Bentonite	(t)	600	540	0	500	500	-16.67	0.00
Gypsum	(t)	361 015	309 343	299 316	258 620	51 240	-85.81	-80.19
Salt	(t)	158 499	189 146	213 319	229 755	161 774	2.07	-29.59

Abbreviations: see Definitions

Steam Coal	(t)	646 900	819 715	1 325 586	1 283 428	994 617	53.75	-22.50
Lignite	(t)	90 000	485 724	785 480	760 498	589 360	554.84	-22.50
Nat. Gas	(Mio m <sup>3</sup> )	18 660	16 040	18 810	18 270	17 680	-5.25	-3.23
Petroleum	(t)	573 400	480 500	429 000	572 200	309 800	-45.97	-45.86
Total	(t)	17 159 572	15 646 086	18 885 240	18 295 574	16 761 112		

## Namibia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	1 640	8 730	8 400	27 570	51 490	3 039.63	86.76
Manganese	(t)	9 820	8 800	14 660	11 860	10 250	4.38	-13.58
Arsenic	(t)	700	0	0	0	0	-100.00	.
Copper	(t)	15 466	15 177	14 940	15 741	950	-93.86	-93.96
Lead	(t)	5 805	4 291	6 320	8 890	10 130	74.50	13.95
Lithium	(t)	0	600	0	0	0	.	.
Tin	(t)		0	7	242	492	.	103.31
Zinc	(t)	131 920	118 310	124 630	62 260	41 180	-68.78	-33.86
Gold	(kg)	7 800	6 632	7 016	6 718	7 648	-1.95	13.84
Silver	(kg)	6 490	3 850	7 765	7 520	5 847	-9.91	-22.25
Diam. (Gem)	(ct)	1 713 800	1 985 670	1 722 830	1 428 445	1 446 964	-15.57	1.30
Diam. (Ind)	(ct)	90 200	104 510	90 675	75 180	76 156	-15.57	1.30
Graphite	(t)	2 216	3 456	0	0	0	-100.00	.
Salt	(t)	866 586	1 151 153	983 354	987 872	1 014 873	17.11	2.73
Sulfur	(t)	72 280	78 610	72 920	81 500	65 500	-9.38	-19.63
Uranium	(t)	4 981	6 514	6 459	6 382	6 784	36.20	6.30
Total	(t)	1 111 428	1 395 652	1 231 705	1 202 332	1 201 663		

## Nauru

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Phosphates	(t)	50 900	23 000	30 600	39 400	102 500	101.38	160.15
Total	(t)	50 900	23 000	30 600	39 400	102 500		

## Nepal

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	350	180	120	770	0	-100.00	-100.00
Lead	(t)	3 900	0	0	1 800	5 550	42.31	208.33



Talc	(t)	7 096	8 658	7 813	4 931	4 450	-37.29	-9.75
Steam Coal	(t)	10 237	10 049	7 184	7 250	10 714	4.66	47.78
Total	(t)	21 583	18 887	15 117	14 751	20 714		

## Netherlands

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	29 300	41 300	81 100	70 600	46 700	59.39	-33.85
Cadmium	(t)	890	960	860	880	854	-4.04	-2.95
Salt	(t)	6 935 000	6 750 546	5 913 782	5 712 038	6 120 742	-11.74	7.16
Nat. Gas	(Mio m <sup>3</sup> )	43 103	36 911	31 517	22 813	20 438	-52.58	-10.41
Petroleum	(t)	1 222 000	1 129 300	892 600	862 200	861 100	-29.53	-0.13
Total	(t)	42 669 590	37 450 906	32 101 942	24 896 118	23 379 796		

## New Caledonia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Cobalt	(t)	2 780	2 104	1 703	2 197	1 500	-46.04	-31.73
Nickel	(t)	215 382	216 225	208 185	199 375	186 284	-13.51	-6.57
Total	(t)	218 162	218 329	209 888	201 572	187 784		

## New Zealand

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	2 324 640	2 100 000	1 915 000	2 260 000	2 200 000	-5.36	-2.65
Aluminium	(t)	336 740	340 678	351 481	333 314	333 135	-1.07	-0.05
Gold	(kg)	10 288	10 045	8 217	5 860	5 815	-43.48	-0.77
Silver	(kg)	8 022	6 332	4 060	1 393	3 055	-61.92	119.31
Bentonite	(t)	700	4 482	500	500	500	-28.57	0.00
Kaolin	(t)	50 424	51 369	50 569	50 000	55 000	9.08	10.00
Salt	(t)	102 000	100 000	100 000	100 000	100 000	-1.96	0.00
Steam Coal	(t)	1 426 000	1 710 060	1 545 230	1 482 000	1 448 565	1.58	-2.26
Coking Coal	(t)	1 173 100	1 213 400	1 200 900	1 038 970	1 134 310	-3.31	9.18
Lignite	(t)	319 487	307 378	287 830	297 690	284 735	-10.88	-4.35
Nat. Gas	(Mio m <sup>3</sup> )	4 896	4 322	4 608	4 508	3 945	-19.42	-12.49
Petroleum	(t)	1 400 390	1 086 450	1 128 870	964 420	840 780	-39.96	-12.82
Total	(t)	11 050 299	10 371 433	10 266 792	10 133 301	9 553 034		

Abbreviations: see Definitions

## Nicaragua

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	7 367	7 703	9 190	8 087	11 144	51.27	37.80
Silver	(kg)	15 419	11 263	17 362	20 411	21 460	39.18	5.14
Gypsum	(t)	66 740	70 341	39 925	64 573	19 999	-70.03	-69.03
Salt	(t)	50 000	50 000	55 000	55 000	55 000	10.00	0.00
Total	(t)	116 762	120 360	94 951	119 601	75 031		

## Niger

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	914	6 207	5 224	2 361	4 010	338.73	69.84
Silver	(kg)	100	300	100	120	100	0.00	-16.67
Steam Coal	(t)	233 792	221 580	225 920	246 880	105 760	-54.76	-57.16
Petroleum	(t)	909 200	827 300	903 400	855 500	873 100	-3.97	2.06
Uranium	(t)	4 066	3 433	3 516	3 527	2 691	-33.82	-23.70
Total	(t)	1 147 059	1 052 319	1 132 841	1 105 909	981 555		

## Nigeria

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	0	700	18 300	2 400	1 300	.	-45.83
Manganese	(t)	13 550	22 880	1 000	5 850	22 380	65.17	282.56
Niobium	(t)	122	181	170	80	140	14.75	75.00
Tantalum	(t)	480	230	120	80	160	-66.67	100.00
Tungsten	(t)	12	66	15	18	24	100.00	33.33
Beryllium	(t)	0	35	1	2	0	.	-100.00
Lead	(t)	24 260	17 900	23 550	20 100	45 500	87.55	126.37
Lithium	(t)	0	50	10	0	20	.	.
Tin	(t)	8 260	7 850	6 900	5 970	6 890	-16.59	15.41
Zinc	(t)	22 130	26 920	23 220	26 620	32 220	45.59	21.04
Gold	(kg)	7 000	10 000	9 000	1 520	2 000	-71.43	31.58
Baryte	(t)	717	387	370	544	460	-35.84	-15.44
Feldspar	(t)	27 660	41 355	33 702	19 453	43 997	59.06	126.17
Fluorspar	(t)			4 730	17 557	6 275	.	-64.26
Gypsum	(t)	39 939	39 052	22 142	30 706	13 401	-66.45	-56.36
Kaolin	(t)	46 935	11 707	8 649	7 033	23 530	-49.87	234.57
Talc	(t)	1 897	2 668	6 630	8 404	65 061	3 329.68	674.17
Zircon	(t)	4 086	1 421	1 000	242	3 033	-25.77	1 153.31
Steam Coal	(t)	397 214	352 679	543 424	747 979	1 444 139	263.57	93.07
Nat. Gas (Mio m <sup>3</sup> )		47 200	48 270	49 280	49 950	48 570	2.90	-2.76
Petroleum	(t)	94 081 000	95 675 000	100 287 000	91 504 570	80 639 590	-14.29	-11.87
Total	(t)	132 428 269	134 817 091	140 404 942	132 357 610	121 204 122		

**Abbreviations:** see Definitions

## North Macedonia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Copper	(t)	8 966	7 718	7 231	6 625	6 810	-24.05	2.79
Lead	(t)	39 850	41 900	43 490	44 930	42 870	7.58	-4.58
Zinc	(t)	27 510	29 720	31 040	31 750	30 070	9.31	-5.29
Gold	(kg)	972	767	593	448	470	-51.65	4.91
Silver	(kg)	16 020	15 060	15 620	16 090	15 470	-3.43	-3.85
Bentonite	(t)	912	2 945	682	2 196	1 277	40.02	-41.85
Feldspar	(t)	21 237	30 813	29 519	13 115	26 625	25.37	103.01
Gypsum	(t)	217 491	230 029	267 181	229 322	273 497	25.75	19.26
Talc	(t)	478	559	0	0	0	-100.00	.
Lignite	(t)	5 056 918	4 946 486	5 066 083	4 532 745	4 758 504	-5.90	4.98
Total	(t)	5 373 379	5 290 186	5 445 243	4 860 699	5 139 668		

## Norway

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	992 700	1 129 900	1 069 700	1 014 700	1 057 500	6.53	4.22
Molybdenum	(t)	0	0	1	1	1	.	0.00
Nickel	(t)	190	170	135	120	350	84.21	191.67
Titanium	(t)	238 200	176 370	211 280	229 780	295 610	24.10	28.65
Aluminium	(t)	1 253 000	1 295 000	1 312 000	1 330 000	1 431 000	14.21	7.59
Cadmium	(t)	416	380	370	344	390	-6.25	13.37
Bentonite	(t)	0	3 234	0	0	12 803	.	.
Feldspar	(t)	87 900	88 000	80 000	69 000	60 000	-31.74	-13.04
Graphite	(t)	9 600	10 000	9 780	5 549	6 293	-34.45	13.41
Gypsum	(t)	87 891	89 655	102 100	93 602	92 794	5.58	-0.86
Salt	(t)	10 000	56 000	10 000	5 300	13 000	30.00	145.28
Sulfur	(t)	100 000	120 000	100 000	100 000	100 000	0.00	0.00
Steam Coal	(t)	134 433	154 200	117 000	63 000	121 000	-9.99	92.06
Nat. Gas (Mio m <sup>3</sup> )		124 664	122 203	115 123	112 332	115 178	-7.61	2.53
Petroleum	(t)	89 849 500	84 275 900	79 388 000	93 492 500	95 254 000	6.02	1.88
Total	(t)	192 495 030	185 161 209	174 498 766	186 269 496	190 587 141		

## Oman

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	181 090	353 630	293 040	182 720	195 540	7.98	7.02
Manganese	(t)	3 400	11 170	12 500	3 630	3 760	10.59	3.58
Aluminium	(t)	252 714	379 775	390 515	396 929	395 360	56.45	-0.40

Abbreviations: see Definitions

Gypsum	(t)	8 438 286	9 666 701	10 982 900	11 120 200	13 243 981	56.95	19.10
Kaolin	(t)	218 600	110 300	34 100	58 300	35 350	-83.83	-39.37
Salt	(t)	18 035	11 537	15 003	11 700	10 142	-43.76	-13.32
Sulfur	(t)	59 140	84 990	79 140	80 830	87 765	48.40	8.58
Nat. Gas	(Mio m <sup>3</sup> )	33 172	37 660	37 460	36 110	38 400	15.76	6.34
Petroleum	(t)	48 308 200	48 710 000	48 339 100	47 374 500	48 353 500	0.09	2.07
Total	(t)	84 017 065	89 456 103	90 114 298	88 116 809	93 045 398		

## Pakistan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	190 630	257 340	238 440	218 000	306 160	60.60	40.44
Chromium	(t)	42 100	38 970	55 300	48 570	56 050	33.14	15.40
Manganese	(t)	430	50	190	180	50	-88.37	-72.22
Antimony	(t)	15	20	0	17	33	120.00	94.12
Bauxite	(t)	75 375	145 189	92 936	101 047	97 495	29.35	-3.52
Copper	(t)	10 052	12 538	13 049	13 200	18 806	87.09	42.47
Lead	(t)	3 050	4 820	8 090	7 094	7 277	138.59	2.58
Zinc	(t)	19 460	26 980	37 365	35 054	35 391	81.87	0.96
Baryte	(t)	91 711	88 847	116 480	55 341	51 553	-43.79	-6.84
Bentonite	(t)	42 770	74 268	48 332	107 742	59 744	39.69	-44.55
Feldspar	(t)	273 468	151 743	295 381	343 075	451 985	65.28	31.75
Fluorspar	(t)	2 263	2 777	4 186	5 981	7 841	246.49	31.10
Gypsum	(t)	2 079 629	2 475 893	2 517 825	2 149 873	2 527 215	21.52	17.55
Kaolin	(t)	28 710	19 483	20 756	14 919	12 309	-57.13	-17.49
Magnesite	(t)	19 656	23 596	42 996	16 165	15 120	-23.08	-6.46
Phosphates	(t)	11 100	12 340	17 320	15 790	21 640	94.95	37.05
Salt	(t)	3 806 888	3 888 344	4 012 304	3 483 732	3 592 205	-5.64	3.11
Sulfur	(t)	23 740	22 040	20 715	19 948	19 398	-18.29	-2.76
Talc	(t)	152 279	141 504	158 109	150 009	289 423	90.06	92.94
Steam Coal	(t)	3 953 992	4 477 555	5 406 878	8 599 166	9 229 377	133.42	7.33
Nat. Gas	(Mio m <sup>3</sup> )	41 678	41 313	40 679	37 283	36 224	-13.09	-2.84
Petroleum	(t)	4 329 141	4 441 610	4 433 150	3 832 330	3 760 980	-13.12	-1.86
Uranium	(t)	53	53	53	53	53	0.00	0.00
Total	(t)	48 498 912	49 356 360	50 083 055	49 043 686	49 539 305		

## Panama

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Copper	(t)		0	147 480	205 548	331 000	.	61.03
Gold	(kg)	0	0	1 869	2 633	4 405	.	67.30
Silver	(kg)		0	35 217	49 628	78 419	.	58.01
Salt	(t)	18 590	17 281	27 389	24 958	23 593	26.91	-5.47
Total	(t)	18 590	17 281	174 906	230 559	354 675		

Abbreviations: see Definitions

## Papua New Guinea

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	34 470	40 290	52 010	52 700	43 430	25.99	-17.59
Cobalt	(t)	3 307	3 275	2 915	2 941	2 955	-10.64	0.48
Nickel	(t)	34 664	35 354	33 091	33 659	31 594	-8.86	-6.14
Copper	(t)	105 448	96 277	99 432	82 841	66 531	-36.91	-19.69
Gold	(kg)	61 678	67 282	71 050	52 510	39 145	-36.53	-25.45
Silver	(kg)	69 650	113 890	162 630	118 193	90 200	29.50	-23.68
Nat. Gas	(Mio m <sup>3</sup> )	3 286	2 914	3 339	3 325	3 400	3.47	2.26
Petroleum	(t)	2 656 600	1 898 700	1 889 900	1 960 100	1 842 600	-30.64	-5.99
Total	(t)	5 463 421	4 405 277	4 748 782	4 792 412	4 707 239		

## Paraguay

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
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

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	8 806 450	9 533 870	10 120 007	8 893 972	12 149 274	37.96	36.60
Manganese	(t)	1 133	17 203	18 814	10 120	9 073	700.79	-10.35
Molybdenum	(t)	28 141	28 034	30 441	32 185	34 148	21.35	6.10
Arsenic	(t)	22 403	20 376	24 915	19 014	21 872	-2.37	15.03
Bismuth	(t)	123	145	73	74	248	101.63	235.14
Cadmium	(t)	797	765	772	451	279	-64.99	-38.14
Copper	(t)	2 445 585	2 437 035	2 455 440	2 150 126	2 299 277	-5.98	6.94
Indium	(t)	5	5	7	7	7	40.00	0.00
Lead	(t)	306 784	289 123	308 116	241 548	264 162	-13.89	9.36
Selenium	(t)	49	52	56	53	48	-2.04	-9.43
Tin	(t)	17 790	18 601	19 853	20 647	26 995	51.74	30.75
Zinc	(t)	1 473 073	1 474 674	1 404 382	1 334 570	1 532 173	4.01	14.81
Gold	(kg)	151 964	140 211	128 413	88 054	97 339	-35.95	10.54
Silver	(kg)	4 417 987	4 160 162	3 860 306	2 723 879	3 310 192	-25.07	21.52
Baryte	(t)	9 182	15 621	16 373	5 242	10 361	12.84	97.65
Bentonite	(t)	756	2 383	46 887	25 532	56 199	7 333.73	120.11
Boron	(t)	0	100 552	111 108	43 645	246 362	.	464.47
Diatomite	(t)	96 590	96 532	91 103	85 406	94 860	-1.79	11.07
Feldspar	(t)	14 930	31 588	29 134	24 132	27 274	82.68	13.02
Gypsum	(t)	286 657	458 479	254 382	171 093	435 459	51.91	154.52
Kaolin	(t)	17 700	16 004	9 208	12 536	13 142	-25.75	4.83

Abbreviations: see Definitions

Phosphates	(t)	3 211 140	3 917 140	4 214 770	3 265 790	4 094 930	27.52	25.39
Salt	(t)	1 481 398	1 509 564	1 266 347	1 030 598	1 175 828	-20.63	14.09
Sulfur	(t)	536 200	552 800	511 500	474 500	529 900	-1.17	11.68
Talc	(t)	42 123	47 309	43 974	37 938	50 355	19.54	32.73
Steam Coal	(t)	301 446	218 787	181 023	131 516	146 982	-51.24	11.76
Nat. Gas (Mio m <sup>3</sup> )		12 942	12 721	13 429	12 030	11 375	-12.11	-5.44
Petroleum	(t)	6 688 300	6 688 500	6 956 200	6 221 400	5 949 800	-11.04	-4.37
Total	(t)	36 146 925	37 656 242	38 862 073	33 858 907	38 272 415		

## Philippines

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	0	0	0	25 700	46 500	.	80.93
Chromium	(t)	8 340	20 260	14 570	14 040	12 290	47.36	-12.46
Cobalt	(t)	3 700	3 600	3 750	3 600	3 200	-13.51	-11.11
Nickel	(t)	339 377	344 966	323 325	328 911	386 359	13.84	17.47
Copper	(t)	68 156	69 933	71 892	60 856	51 586	-24.31	-15.23
Selenium	(t)	100	100	100	100	200	100.00	100.00
Gold	(kg)	22 749	20 765	20 687	21 030	25 332	11.35	20.46
Silver	(kg)	31 737	29 782	31 267	24 024	30 856	-2.78	28.44
Bentonite	(t)	2 620	10 800	13 050	4 720	6 059	131.26	28.37
Feldspar	(t)	47 000	47 000	47 000	47 000	47 000	0.00	0.00
Kaolin	(t)	7 340	13 000	15 000	40 200	27 700	277.38	-31.09
Magnesite	(t)	200	140	40	0	0	-100.00	.
Perlite	(t)	15 038	7 329	6 608	0	4 631	-69.20	.
Phosphates	(t)	8 600	1 500	200	200	0	-100.00	-100.00
Salt	(t)	1 250 000	600 000	200 000	200 000	100 000	-92.00	-50.00
Sulfur	(t)	1 056 400	1 321 800	716 100	575 900	600 000	-43.20	4.18
Steam Coal	(t)	11 932 000	13 055 840	15 273 525	13 267 098	14 378 268	20.50	8.38
Nat. Gas (Mio m <sup>3</sup> )		3 922	4 270	4 409	4 013	3 429	-12.57	-14.55
Petroleum	(t)	750 200	728 300	652 300	572 100	486 800	-35.11	-14.91
Total	(t)	18 626 726	19 640 619	20 864 712	18 350 870	18 893 849		

## Poland

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nickel	(t)	720	660	755	710	740	2.78	4.23
Cadmium	(t)	309	305	199	80	292	-5.50	265.00
Copper	(t)	419 300	401 300	398 900	392 700	391 300	-6.68	-0.36
Lead	(t)	39 000	40 210	48 510	46 790	29 430	-24.54	-37.10
Rhenium	(kg)	7 564	6 290	5 770	6 580	6 401	-15.38	-2.72
Selenium	(t)	74	66	76	74	66	-10.81	-10.81
Zinc	(t)	50 000	43 000	40 000	43 000	0	-100.00	-100.00

**Abbreviations:** see Definitions

Gold	(kg)	572	523	674	878	768	34.27	-12.53
Palladium	(kg)	7	5	5	4	4	-42.86	0.00
Platinum	(kg)	11	8	8	6	5	-54.55	-16.67
Silver	(kg)	1 289 900	1 264 300	1 249 000	1 218 200	1 302 900	1.01	6.95
Bentonite	(t)	0	560	500	920	500	.	-45.65
Diatomite	(t)	500	580	680	810	980	96.00	20.99
Feldspar	(t)	91 200	71 480	42 160	29 440	11 110	-87.82	-62.26
Gypsum	(t)	1 108 000	1 042 000	1 065 000	1 057 000	1 123 000	1.35	6.24
Kaolin	(t)	284 650	310 850	317 190	292 940	315 040	10.68	7.54
Magnesite	(t)	101 920	102 110	91 490	65 250	65 820	-35.42	0.87
Salt	(t)	4 660 000	4 125 000	4 063 000	3 638 000	5 369 000	15.21	47.58
Sulfur	(t)	1 321 410	1 250 400	1 210 240	1 011 080	1 058 800	-19.87	4.72
Steam Coal	(t)	52 999 300	51 336 590	49 552 170	42 111 970	42 421 560	-19.96	0.74
Coking Coal	(t)	12 480 640	12 047 000	12 071 220	12 273 960	12 584 820	0.83	2.53
Lignite	(t)	61 160 660	58 570 900	50 328 580	45 983 410	52 355 510	-14.40	13.86
Nat. Gas (Mio m <sup>3</sup> )		5 009	4 926	4 976	4 934	4 860	-2.97	-1.50
Petroleum	(t)	939 240	937 040	936 760	911 430	858 030	-8.65	-5.86
Total	(t)	139 665 422	134 222 122	124 149 486	111 807 990	120 475 308		

## Portugal

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Tungsten	(t)	669	716	518	553	542	-18.98	-1.99
Copper	(t)	63 812	49 064	41 553	32 230	39 443	-38.19	22.38
Lead	(t)	5 164	19 440	27 852	28 178	29 526	471.77	4.78
Lithium	(t)	604	914	710	280	225	-62.75	-19.64
Tin	(t)	81	111	108	104	60	-25.93	-42.31
Zinc	(t)	71 357	144 983	161 569	176 849	188 395	164.02	6.53
Silver	(kg)	40 186	90 760	95 270	95 954	97 945	143.73	2.07
Feldspar	(t)	126 211	130 475	106 754	122 969	145 362	15.17	18.21
Gypsum	(t)	152 059	232 921	209 076	210 231	254 913	67.64	21.25
Kaolin	(t)	307 982	374 029	311 677	320 655	387 223	25.73	20.76
Salt	(t)	122 331	100 825	112 215	97 104	94 778	-22.52	-2.40
Talc	(t)	13 600	10 144	12 901	9 751	8 277	-39.14	-15.12
Total	(t)	863 910	1 063 713	985 028	999 000	1 148 842		

## Qatar

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	620 000	616 000	627 400	631 400	634 270	2.30	0.45
Sulfur	(t)	2 000 000	1 767 000	2 050 000	1 650 000	2 100 000	5.00	27.27
Nat. Gas (Mio m <sup>3</sup> )		166 500	165 600	167 610	166 740	169 152	1.59	1.45
Petroleum	(t)	77 488 690	79 223 750	76 220 160	74 399 870	75 847 230	-2.12	1.95
Total	(t)	213 308 690	214 086 750	212 985 560	210 073 270	213 903 100		

Abbreviations: see Definitions

## Romania

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	5 660	5 150	9 290	8 450	6 600	16.61	-21.89
Aluminium	(t)	282 074	282 810	280 326	271 307	293 399	4.01	8.14
Copper	(t)	8 160	8 555	9 180	9 130	9 240	13.24	1.20
Lead	(t)	720	1 200	520	510	690	-4.17	35.29
Zinc	(t)	770	330	1 260	100	100	-87.01	0.00
Gold	(kg)	960	900	500	500	500	-47.92	0.00
Silver	(kg)	18 000	18 000	18 000	18 000	18 000	0.00	0.00
Bentonite	(t)	28 005	34 809	41 964	45 495	54 648	95.14	20.12
Feldspar	(t)	5 000	20 000	20 000	20 000	20 000	300.00	0.00
Gypsum	(t)	764 786	749 668	878 546	925 782	952 617	24.56	2.90
Kaolin	(t)	31 000	7 220	6 089	0	0	-100.00	.
Salt	(t)	2 340 000	2 374 973	2 015 579	1 175 979	1 328 738	-43.22	12.99
Lignite	(t)	25 752 300	23 647 150	21 652 320	15 030 906	17 733 034	-31.14	17.98
Nat. Gas	(Mio m <sup>3</sup> )	10 582	10 278	9 959	8 914	8 938	-15.54	0.27
Petroleum	(t)	3 635 000	3 577 000	3 568 000	3 457 000	3 319 000	-8.69	-3.99
Total	(t)	41 319 094	38 931 284	36 450 293	28 075 878	30 868 485		

## Russia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	62 186 000	64 192 000	65 726 000	65 372 000	59 375 800	-4.52	-9.17
Chromium	(t)	170 800	177 500	175 000	187 000	167 360	-2.01	-10.50
Cobalt	(t)	8 900	8 700	9 400	9 700	8 100	-8.99	-16.49
Manganese	(t)	0	8 600	5 900	28 200	10 700	.	-62.06
Molybdenum	(t)	3 227	2 262	1 989	1 707	1 700	-47.32	-0.41
Nickel	(t)	223 000	238 800	233 800	234 100	192 000	-13.90	-17.98
Niobium	(t)	648	669	659	617	648	0.00	5.02
Tantalum	(t)	45	44	32	60	39	-13.33	-35.00
Titanium	(t)	2 900	3 000	3 100	3 000	4 400	51.72	46.67
Tungsten	(t)	2 144	2 234	2 433	2 274	1 900	-11.38	-16.45
Vanadium	(t)	18 636	17 052	18 380	19 533	20 058	7.63	2.69
Aluminium	(t)	3 583 000	3 774 000	3 894 400	3 928 800	3 931 000	9.71	0.06
Antimony	(t)	6 120	30 828	21 671	17 532	9 750	59.31	-44.39
Arsenic	(t)	1 000	500	102	500	1 000	0.00	100.00
Bauxite	(t)	5 845 000	7 057 000	6 641 000	6 647 000	6 565 000	12.32	-1.23
Bismuth	(t)	30	15	46	45	45	50.00	0.00
Cadmium	(t)	1 176	1 201	1 000	1 000	1 000	-14.97	0.00
Copper	(t)	761 100	870 500	812 400	924 100	934 000	22.72	1.07
Gallium	(t)	5	6	8	5	5	0.00	0.00
Germanium	(t)	6	6	5	5	5	-16.67	0.00
Indium	(t)	5	4	6	10	10	100.00	0.00
Lead	(t)	204 700	206 100	207 900	200 700	199 500	-2.54	-0.60
Mercury	(t)	50	50	50	30	30	-40.00	0.00
Rare Earths	(t)	2 500	2 596	2 620	2 663	2 276	-8.96	-14.53
Rhenium	(kg)	1 500	1 000	1 000	2 000	2 000	33.33	0.00

Abbreviations: see Definitions



Selenium	(t)	194	185	193	195	230	18.56	17.95
Tellurium	(t)	44	35	38	55	60	36.36	9.09
Tin	(t)	1 011	1 531	2 471	2 559	3 317	228.09	29.62
Zinc	(t)	255 200	288 000	275 400	260 700	306 000	19.91	17.38
Gold	(kg)	270 300	279 850	305 050	308 560	313 830	16.10	1.71
Palladium	(kg)	76 270	92 570	92 900	81 990	83 630	9.65	2.00
Platinum	(kg)	22 400	21 370	22 420	21 740	19 840	-11.43	-8.74
Rhodium	(kg)	2 426	2 146	2 115	1 800	1 650	-31.99	-8.33
Silver	(kg)	1 373 000	1 400 100	1 407 000	1 380 000	1 280 000	-6.77	-7.25
Asbestos	(t)	710 250	752 917	789 600	707 811	750 000	5.60	5.96
Baryte	(t)	221 000	265 300	163 000	265 000	252 000	14.03	-4.91
Bentonite	(t)	669 700	714 000	720 000	720 000	500 000	-25.34	-30.56
Boron	(t)	82 500	88 000	81 800	85 500	89 600	8.61	4.80
Diam. (Gem)	(ct)	21 860 500	22 973 133	25 804 591	18 711 931	23 470 180	7.36	25.43
Diam. (Ind)	(ct)	20 754 280	20 187 926	19 466 621	12 474 620	15 646 790	-24.61	25.43
Diatomite	(t)	52 000	50 600	51 000	51 000	176 800	240.00	246.67
Feldspar	(t)	293 300	281 300	281 300	290 000	290 000	-1.13	0.00
Fluorspar	(t)	2 700	6 000	4 000	32 000	76 000	2 714.81	137.50
Graphite	(t)	19 500	11 900	17 500	12 900	17 300	-11.28	34.11
Gypsum	(t)	3 750 000	5 453 400	4 179 300	4 060 000	4 629 000	23.44	14.01
Kaolin	(t)	1 593 000	1 485 900	1 530 800	2 478 000	2 193 800	37.72	-11.47
Magnesite	(t)	1 397 000	1 571 400	1 013 800	1 281 400	1 108 700	-20.64	-13.48
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	5 148 000	5 304 000	5 382 000	5 382 000	5 517 800	7.18	2.52
Potash	(t)	7 300 000	7 055 000	7 368 000	8 194 200	8 890 000	21.78	8.49
Salt	(t)	7 073 000	6 710 000	8 175 000	6 026 000	8 242 000	16.53	36.77
Sulfur	(t)	7 000 000	7 170 000	7 175 000	6 850 000	4 690 900	-32.99	-31.52
Talc	(t)	20 000	12 500	48 000	104 000	50 000	150.00	-51.92
Vermiculite	(t)	14 400	25 904	29 237	28 442	39 804	176.42	39.95
Zircon	(t)	7 324	7 400	6 300	6 000	6 700	-8.52	11.67
Steam Coal	(t)	253 700 000	271 200 000	266 700 000	241 300 000	261 646 600	3.13	8.43
Coking Coal	(t)	85 300 000	89 800 000	93 900 000	88 200 000	99 800 000	17.00	13.15
Lignite	(t)	72 200 000	78 300 000	80 800 000	72 600 000	75 200 000	4.16	3.58
Nat. Gas (Mio m <sup>3</sup> )		680 800	711 500	718 960	680 100	757 700	11.30	11.41
Petroleum	(t)	546 742 200	555 833 900	560 256 690	512 761 000	524 050 000	-4.15	2.20
Uranium	(t)	3 440	3 424	3 433	3 356	3 107	-9.68	-7.42
Total	(t)	1 611 263 510	1 678 233 069	1 691 926 602	1 573 409 502	1 676 162 754		

## Russia, Asia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	15 546 500	17 331 800	18 403 300	18 957 900	17 219 000	10.76	-9.17
Cobalt	(t)	2 620	2 940	2 720	2 560	1 950	-25.57	-23.83
Molybdenum	(t)	3 227	2 262	1 989	1 707	1 700	-47.32	-0.41
Nickel	(t)	65 600	80 800	67 540	61 740	46 200	-29.57	-25.17
Tungsten	(t)	2 144	2 234	2 433	2 274	1 900	-11.38	-16.45
Aluminium	(t)	3 486 000	3 632 000	3 752 900	3 788 900	3 797 800	8.94	0.23
Antimony	(t)	6 120	30 828	21 671	17 532	9 750	59.31	-44.39
Arsenic	(t)	1 000	500	102	500	1 000	0.00	100.00
Bismuth	(t)	30	15	46	45	45	50.00	0.00
Cadmium	(t)	1 176	1 201	1 000	1 000	1 000	-14.97	0.00
Copper	(t)	608 880	696 400	649 920	739 280	747 000	22.68	1.04
Germanium	(t)	6	6	5	5	5	-16.67	0.00
Indium	(t)	5	4	6	10	10	100.00	0.00

Abbreviations: see Definitions

Lead	(t)	204 700	206 100	207 900	200 700	199 500	-2.54	-0.60
Mercury	(t)	50	50	50	30	30	-40.00	0.00
Selenium	(t)	194	185	193	195	230	18.56	17.95
Tellurium	(t)	44	35	38	55	60	36.36	9.09
Tin	(t)	1 011	1 531	2 471	2 559	3 317	228.09	29.62
Zinc	(t)	255 200	250 560	242 350	221 600	260 000	1.88	17.33
Gold	(kg)	251 380	274 450	300 750	301 660	306 830	22.06	1.71
Palladium	(kg)	22 240	40 190	36 110	31 290	36 070	62.19	15.28
Platinum	(kg)	10 430	9 490	8 770	9 610	8 540	-18.12	-11.13
Rhodium	(kg)	2 426	2 146	2 115	1 800	1 650	-31.99	-8.33
Silver	(kg)	1 373 000	1 331 600	1 354 200	1 297 800	1 200 000	-12.60	-7.54
Asbestos	(t)	293 330	314 217	315 300	287 371	321 000	9.43	11.70
Baryte	(t)	221 000	265 300	163 000	265 000	252 000	14.03	-4.91
Bentonite	(t)	468 800	499 800	492 900	500 000	470 000	0.26	-6.00
Boron	(t)	82 500	88 000	81 800	85 500	89 600	8.61	4.80
Diam. (Gem)	(ct)	18 966 170	17 624 988	19 525 587	16 339 353	17 278 180	-8.90	5.75
Diam. (Ind)	(ct)	18 006 413	15 488 177	14 729 829	10 892 902	11 518 790	-36.03	5.75
Feldspar	(t)	288 900	275 700	281 300	290 000	290 000	0.38	0.00
Fluorspar	(t)	2 700	6 000	4 000	32 000	76 000	2 714.81	137.50
Graphite	(t)	19 500	11 900	17 500	12 900	17 300	-11.28	34.11
Talc	(t)	20 000	12 500	38 000	42 000	40 000	100.00	-4.76
Steam Coal	(t)	253 700 000	271 200 000	266 700 000	241 300 000	261 646 600	3.13	8.43
Coking Coal	(t)	85 300 000	89 800 000	93 900 000	88 200 000	99 800 000	17.00	13.15
Lignite	(t)	64 980 000	70 470 000	72 720 000	65 340 000	67 680 000	4.16	3.58
Nat. Gas (Mio m <sup>3</sup> )		646 760	675 920	683 010	646 100	719 800	11.29	11.41
Petroleum	(t)	360 849 850	389 083 730	448 205 350	410 208 800	419 240 000	16.18	2.20
Uranium	(t)	3 440	3 424	3 433	3 356	3 107	-9.68	-7.42
Total	(t)	1 303 824 193	1 385 007 686	1 452 688 926	1 347 447 167	1 448 057 663		

## Russia, Europe

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	46 639 500	46 860 200	47 322 700	46 414 100	42 156 800	-9.61	-9.17
Chromium	(t)	170 800	177 500	175 000	187 000	167 360	-2.01	-10.50
Cobalt	(t)	6 280	5 760	6 680	7 140	6 150	-2.07	-13.87
Manganese	(t)	0	8 600	5 900	28 200	10 700	.	-62.06
Nickel	(t)	157 400	158 000	166 260	172 360	145 800	-7.37	-15.41
Niobium	(t)	648	669	659	617	648	0.00	5.02
Tantalum	(t)	45	44	32	60	39	-13.33	-35.00
Titanium	(t)	2 900	3 000	3 100	3 000	4 400	51.72	46.67
Vanadium	(t)	18 636	17 052	18 380	19 533	20 058	7.63	2.69
Aluminium	(t)	97 000	142 000	141 500	139 900	133 200	37.32	-4.79
Bauxite	(t)	5 845 000	7 057 000	6 641 000	6 647 000	6 565 000	12.32	-1.23
Copper	(t)	152 220	174 100	162 480	184 820	187 000	22.85	1.18
Gallium	(t)	5	6	8	5	5	0.00	0.00
Rare Earths	(t)	2 500	2 596	2 620	2 663	2 276	-8.96	-14.53
Rhenium	(kg)	1 500	1 000	1 000	2 000	2 000	33.33	0.00
Zinc	(t)		37 440	33 050	39 100	46 000	.	17.65

Abbreviations: see Definitions

Gold	(kg)	18 920	5 400	4 300	6 900	7 000	-63.00	1.45
Palladium	(kg)	54 030	52 380	56 790	50 700	47 560	-11.97	-6.19
Platinum	(kg)	11 970	11 880	13 650	12 130	11 300	-5.60	-6.84
Silver	(kg)	0	68 500	52 800	82 200	80 000	.	-2.68
Asbestos	(t)	416 920	438 700	474 300	420 440	429 000	2.90	2.04
Bentonite	(t)	200 900	214 200	227 100	220 000	30 000	-85.07	-86.36
Diam. (Gem)	(ct)	2 894 330	5 348 145	6 279 004	2 372 578	6 192 000	113.94	160.98
Diam. (Ind)	(ct)	2 747 867	4 699 749	4 736 792	1 581 718	4 128 000	50.23	160.98
Diatomite	(t)	52 000	50 600	51 000	51 000	176 800	240.00	246.67
Feldspar	(t)	4 400	5 600	0	0	0	-100.00	.
Gypsum	(t)	3 750 000	5 453 400	4 179 300	4 060 000	4 629 000	23.44	14.01
Kaolin	(t)	1 593 000	1 485 900	1 530 800	2 478 000	2 193 800	37.72	-11.47
Magnesite	(t)	1 397 000	1 571 400	1 013 800	1 281 400	1 108 700	-20.64	-13.48
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	5 148 000	5 304 000	5 382 000	5 382 000	5 517 800	7.18	2.52
Potash	(t)	7 300 000	7 055 000	7 368 000	8 194 200	8 890 000	21.78	8.49
Salt	(t)	7 073 000	6 710 000	8 175 000	6 026 000	8 242 000	16.53	36.77
Sulfur	(t)	7 000 000	7 170 000	7 175 000	6 850 000	4 690 900	-32.99	-31.52
Talc	(t)			10 000	62 000	10 000	.	-83.87
Vermiculite	(t)	14 400	25 904	29 237	28 442	39 804	176.42	39.95
Zircon	(t)	7 324	7 400	6 300	6 000	6 700	-8.52	11.67
Lignite	(t)	7 220 000	7 830 000	8 080 000	7 260 000	7 520 000	4.16	3.58
Nat. Gas (Mio m <sup>3</sup> )		34 040	35 580	35 950	34 000	37 900	11.34	11.47
Petroleum	(t)	185 892 350	166 750 170	112 051 340	102 552 200	104 810 000	-43.62	2.20
Total	(t)	307 439 317	293 225 381	239 237 677	225 962 335	228 105 090		

## Rwanda

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Niobium	(t)	260	245	205	160	160	-38.46	0.00
Tantalum	(t)	395	380	315	240	245	-37.97	2.08
Tungsten	(t)	905	1 155	1 120	990	1 545	70.72	56.06
Beryllium	(t)	30	30	20	20	20	-33.33	0.00
Tin	(t)	3 430	3 405	2 780	2 030	2 260	-34.11	11.33
Gold	(kg)	2 000	2 163	2 000	2 000	2 000	0.00	0.00
Total	(t)	5 022	5 217	4 442	3 442	4 232		

## Saudi Arabia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	266 800	280 100	294 100	275 000	288 700	8.21	4.98
Aluminium	(t)	762 068	775 500	775 561	796 004	998 915	31.08	25.49
Bauxite	(t)	4 125 000	4 906 000	5 127 000	5 227 927	5 488 000	33.04	4.97
Copper	(t)	43 150	59 200	66 610	75 370	75 180	74.23	-0.25
Zinc	(t)	21 787	27 100	27 270	26 790	22 710	4.24	-15.23
Gold	(kg)	10 465	13 397	12 418	13 222	12 413	18.61	-6.12
Silver	(kg)	5 133	6 480	7 123	7 479	6 818	32.83	-8.84

Abbreviations: see Definitions

Feldspar	(t)	197 000	175 594	216 000	523 000	549 000	178.68	4.97
Gypsum	(t)	3 150 000	3 352 832	3 472 000	3 803 000	3 993 000	26.76	5.00
Kaolin	(t)	206 000	207 461	227 000	213 000	224 000	8.74	5.16
Magnesite	(t)	104 132	155 000	200 000	250 000	250 000	140.08	0.00
Phosphates	(t)	1 701 000	1 827 000	2 275 000	2 600 000	2 730 000	60.49	5.00
Salt	(t)	2 520 000	2 646 000	2 778 000	2 220 000	2 331 000	-7.50	5.00
Sulfur	(t)	6 564 200	6 600 000	6 600 000	6 600 000	6 600 000	0.55	0.00
Talc	(t)	44 000	46 000	48 000	61 000	64 000	45.45	4.92
Nat. Gas	(Mio m <sup>3</sup> )	115 000	118 000	117 000	119 000	120 485	4.77	1.25
Petroleum	(t)	559 319 390	576 817 650	556 564 010	519 613 000	515 878 200	-7.77	-0.72
Total	(t)	671 024 542	692 275 456	672 270 570	637 484 111	635 880 724		

## Senegal

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Manganese	(t)	1 520	3 330	1 880	6 580	4 040	165.79	-38.60
Titanium	(t)	280 320	287 940	281 030	291 740	310 310	10.70	6.37
Gold	(kg)	7 255	12 508	14 550	12 408	14 678	102.32	18.29
Silver	(kg)	660	940	898	1 090	1 310	98.48	20.18
Phosphates	(t)	841 020	775 410	855 850	684 300	792 800	-5.73	15.86
Salt	(t)	265 040	245 700	286 100	290 873	280 599	5.87	-3.53
Zircon	(t)	81 749	93 569	80 747	83 257	90 760	11.02	9.01
Nat. Gas	(Mio m <sup>3</sup> )	18	11	15	14	6	-66.67	-57.14
Petroleum	(t)	12 960	20 300	28 500	25 280	20 000	54.32	-20.89
Total	(t)	1 497 017	1 435 063	1 546 123	1 393 243	1 503 325		

## Serbia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Copper	(t)	45 115	44 096	43 550	52 207	121 150	168.54	132.06
Lead	(t)	8 790	9 110	9 970	8 420	6 330	-27.99	-24.82
Selenium	(t)	27	28	20	10	4	-85.19	-60.00
Zinc	(t)	7 400	8 230	7 510	11 480	11 310	52.84	-1.48
Gold	(kg)	1 199	839	1 452	1 550	4 794	299.83	209.29
Palladium	(kg)	50	55	100	100	140	180.00	40.00
Platinum	(kg)	3	6	10	22	30	900.00	36.36
Silver	(kg)	12 340	8 970	14 502	15 900	11 600	-6.00	-27.04
Kaolin	(t)	280 276	279 000	254 000	234 000	249 000	-11.16	6.41
Salt	(t)	8 197	7 811	13 464	6 703	6 469	-21.08	-3.49
Lignite	(t)	39 805 959	37 648 957	38 880 520	39 673 059	36 417 513	-8.51	-8.21
Nat. Gas	(Mio m <sup>3</sup> )	489	450	439	409	362	-25.97	-11.49
Petroleum	(t)	924 351	910 712	881 000	859 226	835 319	-9.63	-2.78
Total	(t)	41 471 328	39 267 954	40 441 250	41 172 323	37 936 712		

**Abbreviations:** see Definitions

## Sierra Leone

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	3 194 930	561 800	418 950	0	950 300	-70.26	.
Tantalum	(t)	38	31	16	29	36	-5.26	24.14
Titanium	(t)	190 480	145 400	165 180	135 930	135 400	-28.92	-0.39
Bauxite	(t)	1 787 716	1 938 461	1 883 863	1 342 139	1 396 678	-21.87	4.06
Gold	(kg)	142	464	75	25	149	4.93	496.00
Diam. (Gem)	(ct)	165 860	402 530	433 054	603 360	541 400	226.42	-10.27
Diam. (Ind)	(ct)	122 380	339 070	391 403	83 040	297 700	143.26	258.50
Zircon	(t)	3 000	11 400	8 500	4 564	4 100	36.67	-10.17
Total	(t)	5 176 164	2 657 092	2 476 509	1 482 662	2 486 514		

## Slovakia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	173 492	173 721	174 794	151 875	163 995	-5.47	7.98
Copper	(t)	32	21	17	20	76	137.50	280.00
Lead	(t)	147	114	111	102	101	-31.29	-0.98
Zinc	(t)	166	151	119	96	25	-84.94	-73.96
Gold	(kg)	447	515	346	336	392	-12.30	16.67
Silver	(kg)	410	345	295	269	328	-20.00	21.93
Baryte	(t)	15 700	11 100	0	0	0	-100.00	.
Bentonite	(t)	226 425	269 990	260 120	261 640	274 050	21.03	4.74
Feldspar	(t)	15 800	16 800	19 100	29 100	10 000	-36.71	-65.64
Gypsum	(t)	45 600	55 190	58 250	72 300	66 600	46.05	-7.88
Kaolin	(t)	21 400	34 400	24 970	30 960	38 780	81.21	25.26
Magnesite	(t)	975 100	1 053 900	1 015 800	787 476	781 600	-19.84	-0.75
Perlite	(t)	48 010	35 600	32 450	37 850	37 240	-22.43	-1.61
Talc	(t)	14 000	43 000	70 100	91 600	99 900	613.57	9.06
Lignite	(t)	1 860 710	1 506 940	1 474 830	986 270	1 080 562	-41.93	9.56
Nat. Gas	(Mio m <sup>3</sup> )	90	90	80	70	71	-21.11	1.43
Petroleum	(t)	8 160	7 522	6 331	3 790	6 130	-24.88	61.74
Total	(t)	3 476 742	3 280 450	3 200 992	2 509 079	2 615 859		

## Slovenia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	84 424	80 511	68 255	50 185	37 867	-55.15	-24.55
Bentonite	(t)	147	113	99	77	75	-48.98	-2.60
Salt	(t)	2 335	2 018	1 437	805	1 671	-28.44	107.58

Abbreviations: see Definitions

Lignite	(t)	3 355 664	3 216 735	3 218 696	3 259 309	2 807 476	-16.34	-13.86
Nat. Gas	(Mio m <sup>3</sup> )	9	18	8	6	6	-33.33	0.00
Petroleum	(t)	481	769	490	385	296	-38.46	-23.12
Total	(t)	3 450 251	3 314 546	3 295 377	3 315 561	2 852 185		

## Solomon Islands

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bauxite	(t)	1 523 900	1 646 200	1 234 030	841 890	0	-100.00	-100.00
Total	(t)	1 523 900	1 646 200	1 234 030	841 890	0		

## South Africa

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	48 808 920	48 277 430	47 064 410	36 163 000	47 509 000	-2.66	31.37
Chromium	(t)	7 073 400	7 524 700	7 384 000	5 479 400	7 605 500	7.52	38.80
Cobalt	(t)	1 065	1 007	1 027	897	355	-66.67	-60.42
Manganese	(t)	5 501 400	5 641 200	6 456 400	6 029 368	7 098 396	29.03	17.73
Nickel	(t)	48 463	43 236	43 443	34 908	31 846	-34.29	-8.77
Titanium	(t)	1 090 000	1 000 000	970 000	950 000	900 000	-17.43	-5.26
Vanadium	(t)	7 958	7 691	8 062	8 584	8 799	10.57	2.50
Aluminium	(t)	716 000	714 000	717 000	717 000	714 000	-0.28	-0.42
Copper	(t)	65 532	46 900	52 501	29 068	28 307	-56.80	-2.62
Lead	(t)	48 150	35 118	42 936	28 048	31 224	-35.15	11.32
Zinc	(t)	30 778	28 129	125 157	160 816	193 785	529.62	20.50
Gold	(kg)	137 290	117 144	105 185	95 786	105 036	-23.49	9.66
Palladium	(kg)	80 713	80 629	80 684	66 264	84 336	4.49	27.27
Platinum	(kg)	132 500	137 053	132 989	111 993	141 626	6.89	26.46
Rhodium	(kg)	18 665	18 608	19 545	16 972	20 875	11.84	23.00
Silver	(kg)	62 536	46 467	55 903	38 118	37 146	-40.60	-2.55
Bentonite	(t)	165 141	173 486	105 084	85 558	98 606	-40.29	15.25
Diam. (Gem)	(ct)	4 485 710	4 594 990	3 373 210	3 958 300	4 506 940	0.47	13.86
Diam. (Ind)	(ct)	5 206 885	5 316 840	3 807 495	4 512 540	5 216 870	0.19	15.61
Feldspar	(t)	116 705	76 803	76 255	48 427	67 113	-42.49	38.59
Fluorspar	(t)	218 399	230 000	210 000	330 000	400 000	83.15	21.21
Gypsum	(t)	320 685	321 988	277 102	205 542	277 376	-13.51	34.95
Kaolin	(t)	31 186	23 724	27 827	20 639	29 168	-6.47	41.32
Magnesite	(t)	8 700	8 500	8 500	8 500	5 000	-42.53	-41.18
Perlite	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Phosphates	(t)	727 800	720 400	639 000	461 000	767 600	5.47	66.51
Salt	(t)	492 860	478 285	510 012	538 355	545 942	10.77	1.41
Sulfur	(t)	256 700	239 297	919 624	575 491	61 929	-75.87	-89.24
Talc	(t)	58 776	102 142	135 430	92 318	270 944	360.98	193.49
Vermiculite	(t)	166 084	141 346	158 013	118 223	217 109	30.72	83.64
Zircon	(t)	361 813	303 610	320 000	311 800	301 000	-16.81	-3.46

**Abbreviations:** see Definitions

Steam Coal	(t)	253 096 500	251 607 600	254 767 800	245 053 000	225 804 400	-10.78	-7.85
Coking Coal	(t)	4 028 275	4 508 302	3 722 225	2 057 020	2 730 418	-32.22	32.74
Nat. Gas	(Mio m <sup>3</sup> )	737	615	658	554	44	-94.03	-92.06
Petroleum	(t)	31 145	23 770	29 774	31 974	15 633	-49.81	-51.11
Uranium	(t)	304	231	163	131	153	-49.67	16.79
Total	(t)	324 063 774	322 772 297	325 299 542	299 983 598	295 750 194		

## South Sudan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Petroleum	(t)	7 250 770	7 107 700	8 448 490	8 126 230	7 515 700	3.65	-7.51
Total	(t)	7 250 770	7 107 700	8 448 490	8 126 230	7 515 700		

## Spain

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)				0	36 580	.	.
Tantalum	(t)		0	18	16	19	.	18.75
Tungsten	(t)	564	856	414	238	642	13.83	169.75
Aluminium	(t)	360 000	350 000	230 000	200 000	190 000	-47.22	-5.00
Copper	(t)	198 353	187 714	170 556	182 678	138 060	-30.40	-24.42
Lead	(t)	3 268	9 936	11 390	11 397	10 880	232.93	-4.54
Tin	(t)	24	81	101	115	220	816.67	91.30
Zinc	(t)	70 451	106 352	90 980	90 368	90 480	28.43	0.12
Gold	(kg)	1 825	1 991	1 913	1 609	1 822	-0.16	13.24
Silver	(kg)	82 907	88 514	77 501	92 662	80 848	-2.48	-12.75
Bentonite	(t)	177 565	178 463	160 477	205 773	171 572	-3.38	-16.62
Diatomite	(t)	70 550	61 056	62 741	59 250	55 982	-20.65	-5.52
Feldspar	(t)	819 218	616 229	855 139	911 095	820 749	0.19	-9.92
Fluorspar	(t)	154 931	176 188	145 185	185 958	143 523	-7.36	-22.82
Gypsum	(t)	9 545 228	10 593 056	11 279 443	13 376 353	14 629 150	53.26	9.37
Kaolin	(t)	475 074	474 462	463 617	274 137	303 743	-36.06	10.80
Magnesite	(t)	788 991	738 994	634 580	626 055	703 834	-10.79	12.42
Potash	(t)	557 468	603 812	519 644	351 918	375 779	-32.59	6.78
Salt	(t)	4 135 626	4 512 243	4 330 514	3 676 039	4 202 939	1.63	14.33
Sulfur	(t)	633 000	662 000	663 100	584 300	687 600	8.63	17.68
Talc	(t)	11 500	15 500	13 100	2 920	0	-100.00	-100.00
Steam Coal	(t)	1 161 748	645 612	0	0	0	-100.00	.
Lignite	(t)	1 833 357	1 727 513	0	0	0	-100.00	.
Nat. Gas	(Mio m <sup>3</sup> )	34	90	135	47	38	11.76	-19.15
Petroleum	(t)	118 809	89 476	40 244	26 819	5 785	-95.13	-78.43
Total	(t)	21 143 010	21 821 634	19 779 323	20 803 124	22 598 020		

Abbreviations: see Definitions

## Sri Lanka

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Titanium	(t)	30 630	35 670	25 940	11 150	28 775	-6.06	158.07
Feldspar	(t)	96 000	70 000	65 400	50 000	60 000	-37.50	20.00
Graphite	(t)	3 800	3 800	3 100	2 500	3 200	-15.79	28.00
Kaolin	(t)	13 000	20 000	34 100	30 000	30 000	130.77	0.00
Phosphates	(t)	14 850	16 290	16 600	18 240	23 880	60.81	30.92
Salt	(t)	74 108	68 834	57 291	60 076	63 254	-14.65	5.29
Zircon	(t)	8 569	785	971	419	400	-95.33	-4.53
Total	(t)	240 957	215 379	203 402	172 385	209 509		

## Sudan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium	(t)	15 360	12 960	5 950	4 300	2 700	-82.42	-37.21
Manganese	(t)	4 000	4 000	1 000	0	0	-100.00	.
Gold	(kg)	107 300	93 600	57 700	35 700	49 700	-53.68	39.22
Silver	(kg)	2 000	1 000	1 000	1 000	1 000	-50.00	0.00
Feldspar	(t)	29 000	36 000	17 000	25 000	6 400	-77.93	-74.40
Gypsum	(t)	333 000	226 000	193 000	173 000	136 000	-59.16	-21.39
Kaolin	(t)	5 446	11 000	29 000	19 700	3 700	-32.06	-81.22
Salt	(t)	235 000	267 000	263 000	237 000	121 000	-48.51	-48.95
Talc	(t)	4 000	4 000	2 000	0	4 500	12.50	.
Petroleum	(t)	4 119 300	3 560 000	3 778 300	2 932 600	2 605 000	-36.76	-11.17
Total	(t)	4 745 215	4 121 055	4 289 309	3 391 637	2 879 351		

## Suriname

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	25 844	26 006	24 516	21 214	18 634	-27.90	-12.16
Petroleum	(t)	811 600	818 400	825 200	818 400	818 400	0.84	0.00
Total	(t)	811 626	818 426	825 225	818 421	818 419		

## Sweden

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	18 741 000	18 405 000	19 367 200	20 112 200	19 964 200	6.53	-0.74
Aluminium	(t)	123 000	125 000	120 000	117 000	124 000	0.81	5.98
Copper	(t)	104 594	106 140	99 332	100 065	88 108	-15.76	-11.95
Lead	(t)	71 112	64 751	68 635	65 402	65 404	-8.03	0.00

**Abbreviations:** see Definitions



Selenium	(t)	66	59	53	69	70	6.06	1.45
Tellurium	(t)	35	45	41	42	41	17.14	-2.38
Zinc	(t)	251 244	237 715	247 657	234 811	236 416	-5.90	0.68
Gold	(kg)	7 858	7 866	7 972	8 249	8 805	12.05	6.74
Silver	(kg)	467 500	443 624	419 926	400 929	428 585	-8.32	6.90
Feldspar	(t)	22 000	28 000	25 000	27 537	28 000	27.27	1.68
Sulfur	(t)	390 620	416 560	347 990	339 890	344 000	-11.93	1.21
Total	(t)	19 704 147	19 383 722	20 276 336	20 997 425	20 850 677		

## Switzerland

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	330 000	330 000	330 000	320 000	320 000	-3.03	0.00
Salt	(t)	448 509	530 414	477 325	324 527	512 700	14.31	57.98
Total	(t)	778 509	860 414	807 325	644 527	832 700		

## Syria

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	66 000	66 000	70 000	70 000	70 000	6.06	0.00
Phosphates	(t)	38 700	95 000	134 000	580 000	400 000	933.59	-31.03
Salt	(t)	5 000	12 000	50 000	70 000	70 000	1 300.00	0.00
Nat. Gas	(Mio m <sup>3</sup> )	3 490	3 470	3 330	2 920	3 070	-12.03	5.14
Petroleum	(t)	1 078 300	1 051 030	1 510 590	1 964 180	4 598 420	326.45	134.11
Total	(t)	3 980 000	4 000 030	4 428 590	5 020 180	7 594 420		

## Taiwan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	4	4	6	3	1	-75.00	-66.67
Kaolin	(t)	1 665	20	500	404	30	-98.20	-92.57
Salt	(t)	77 054	78 539	76 255	77 854	77 297	0.32	-0.72
Sulfur	(t)	173 963	169 698	195 358	167 337	192 228	10.50	14.87
Talc	(t)	0	17	6	0	43	.	.
Nat. Gas	(Mio m <sup>3</sup> )	266	198	167	105	110	-58.65	4.76
Petroleum	(t)	4 600	4 000	3 300	1 860	2 110	-54.13	13.44
Total	(t)	470 082	410 674	409 019	331 455	359 708		

Abbreviations: see Definitions

## Tajikistan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	103 147	95 800	100 800	84 000	61 000	-40.86	-27.38
Antimony	(t)	26 370	28 890	29 900	23 570	26 150	-0.83	10.95
Copper	(t)	6 060	8 490	8 500	978	4 480	-26.07	358.08
Lead	(t)	61 090	52 990	65 570	41 630	49 970	-18.20	20.03
Mercury	(t)	100	120	80	160	160	60.00	0.00
Zinc	(t)	92 940	84 330	90 860	54 720	79 150	-14.84	44.65
Gold	(kg)	5 500	6 432	8 100	8 764	9 330	69.64	6.46
Silver	(kg)	6 550	9 500	11 100	11 350	11 500	75.57	1.32
Fluorspar	(t)	0	400	1 000	10 000	10 000	.	0.00
Gypsum	(t)	43 066	9 639	14 000	8 183	10 000	-76.78	22.20
Salt	(t)	41 323	36 964	35 324	26 637	26 169	-36.67	-1.76
Steam Coal	(t)	1 760 090	1 907 055	2 027 790	2 023 000	2 080 000	18.18	2.82
Nat. Gas	(Mio m <sup>3</sup> )	2	1	1	1	1	-50.00	0.00
Petroleum	(t)	23 482	23 939	23 293	24 400	24 635	4.91	0.96
Total	(t)	2 159 281	2 249 433	2 397 936	2 298 098	2 372 535		

## Tanzania

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)			0	14 200	39 100	.	175.35
Bauxite	(t)	12	7	0	26	38	216.67	46.15
Copper	(t)	15 800	10 000	14 187	11 700	11 520	-27.09	-1.54
Tin	(t)	68	6	18	35	158	132.35	351.43
Gold	(kg)	43 490	39 304	48 408	55 805	59 638	37.13	6.87
Silver	(kg)	10 911	12 041	12 550	13 187	9 324	-14.54	-29.29
Diam. (Gem)	(ct)	258 785	324 105	354 240	125 110	53 165	-79.46	-57.51
Diam. (Ind)	(ct)	45 670	57 195	62 510	22 080	9 380	-79.46	-57.52
Gypsum	(t)	123 645	241 260	256 529	443 926	598 053	383.69	34.72
Kaolin	(t)	13 816	129 383	15 343	98 454	100 950	630.67	2.54
Phosphates	(t)	300	650	5 050	6 240	5 390	1 696.67	-13.62
Salt	(t)	124 500	36 600	99 510	83 974	112 995	-9.24	34.56
Steam Coal	(t)	558 553	627 652	712 136	689 959	976 319	74.79	41.50
Nat. Gas	(Mio m <sup>3</sup> )	1 344	1 675	1 807	1 616	1 838	36.76	13.74
Total	(t)	1 911 948	2 385 609	2 548 434	2 641 383	3 314 992		

**Abbreviations:** see Definitions

## Thailand

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	85	0	10 950	70 210	201 450	236 900.00	186.92
Manganese	(t)	3 850	1 920	2 305	670	0	-100.00	-100.00
Titanium	(t)	4	23	64	84	36	800.00	-57.14
Tungsten	(t)	43	65	22	57	58	34.88	1.75
Tin	(t)	341	47	46	198	220	-35.48	11.11
Zinc	(t)	1 580	0	0	0	0	-100.00	.
Baryte	(t)	147 954	67 490	33 644	22 394	4 988	-96.63	-77.73
Feldspar	(t)	1 385 925	1 117 803	1 251 143	1 105 344	1 346 997	-2.81	21.86
Fluorspar	(t)	5 500	16 700	22 247	9 807	9 766	77.56	-0.42
Gypsum	(t)	10 646 644	11 197 657	9 787 287	9 279 119	10 402 998	-2.29	12.11
Kaolin	(t)	103 079	110 437	92 414	87 320	124 798	21.07	42.92
Perlite	(t)	5 800	5 600	15 000	3 500	3 500	-39.66	0.00
Phosphates	(t)	2 400	0	0	0	0	-100.00	.
Salt	(t)	1 497 223	1 487 364	1 580 390	1 439 877	1 563 970	4.46	8.62
Talc	(t)	61 436	58 676	14 564	38 146	31 950	-47.99	-16.24
Lignite	(t)	16 258 637	14 851 950	14 077 965	13 250 574	14 221 573	-12.53	7.33
Nat. Gas (Mio m <sup>3</sup> )		37 417	36 454	37 450	33 799	33 117	-11.49	-2.02
Petroleum	(t)	11 939 770	11 361 670	11 362 210	10 077 510	8 820 540	-26.12	-12.47
Total	(t)	71 993 871	69 440 602	68 210 251	62 424 010	63 226 444		

## Togo

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gold	(kg)	19 960	10 000	8 227	3 565	3 600	-81.96	0.98
Diam. (Ind)	(ct)	0	0	16	0	0	.	.
Phosphates	(t)	266 260	370 810	260 320	488 900	538 860	102.38	10.22
Total	(t)	266 280	370 820	260 328	488 904	538 864		

## Trinidad and Tobago

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Nat. Gas (Mio m <sup>3</sup> )		32 845	35 005	35 545	30 230	25 425	-22.59	-15.89
Petroleum	(t)	4 655 220	4 122 240	3 869 080	3 600 510	3 652 900	-21.53	1.46
Total	(t)	30 931 220	32 126 240	32 305 080	27 784 510	23 992 900		

Abbreviations: see Definitions

## Tunisia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	106 900	95 000	100 700	93 400	143 900	34.61	54.07
Baryte	(t)	10 000	10 000	10 000	10 000	11 100	11.00	11.00
Gypsum	(t)	944 245	984 031	946 892	890 000	908 130	-3.82	2.04
Phosphates	(t)	1 145 300	812 800	1 124 700	911 800	1 080 700	-5.64	18.52
Salt	(t)	1 403 537	2 116 972	1 966 528	1 666 075	1 889 614	34.63	13.42
Nat. Gas	(Mio m <sup>3</sup> )	2 094	1 950	1 780	1 850	2 240	6.97	21.08
Petroleum	(t)	2 065 930	2 027 230	1 859 060	1 726 250	2 129 640	3.08	23.37
Total	(t)	7 351 112	7 606 033	7 431 880	6 777 525	7 955 084		

## Turkey

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	6 095 400	9 546 700	8 828 800	13 087 300	9 791 300	60.63	-25.18
Chromium	(t)	1 384 700	1 146 600	1 528 700	1 087 400	1 227 900	-11.32	12.92
Cobalt	(t)	220	259	115	250	2 400	990.91	860.00
Manganese	(t)	27 300	29 900	39 900	35 600	30 300	10.99	-14.89
Molybdenum	(t)	900	450	0	0	0	-100.00	.
Nickel	(t)	14 770	13 560	4 740	20 200	11 650	-21.12	-42.33
Titanium	(t)	6 370	6 175	6 130	6 455	7 080	11.15	9.68
Aluminium	(t)	75 523	73 291	78 100	79 600	82 000	8.58	3.02
Antimony	(t)	4 840	3 570	3 815	2 570	4 210	-13.02	63.81
Bauxite	(t)	1 719 144	678 138	2 255 480	2 399 680	2 764 873	60.83	15.22
Copper	(t)	85 200	87 000	73 300	107 000	108 100	26.88	1.03
Lead	(t)	74 990	75 990	71 480	81 520	93 660	24.90	14.89
Zinc	(t)	155 900	184 500	146 800	136 300	171 100	9.75	25.53
Gold	(kg)	23 090	27 100	39 000	42 100	39 290	70.16	-6.67
Silver	(kg)	151 490	202 400	242 000	98 270	162 670	7.38	65.53
Baryte	(t)	292 447	465 138	413 811	283 161	256 076	-12.44	-9.57
Bentonite	(t)	1 481 617	1 331 955	1 533 547	1 658 837	2 020 356	36.36	21.79
Boron	(t)	2 025 000	2 432 000	2 040 000	1 680 000	2 540 000	25.43	51.19
Diatomite	(t)	169 584	242 789	220 757	100 327	207 732	22.50	107.05
Feldspar	(t)	10 273 573	11 474 040	9 447 810	10 050 911	12 936 959	25.92	28.71
Fluorspar	(t)	20 150	6 200	14 400	19 896	10 348	-48.65	-47.99
Graphite	(t)	4 000	16 752	9 990	15 205	28 336	608.40	86.36
Gypsum	(t)	10 223 112	10 896 476	7 489 129	9 280 864	10 620 061	3.88	14.43
Kaolin	(t)	1 362 799	1 515 609	1 283 776	1 224 746	1 748 014	28.27	42.72
Magnesite	(t)	1 694 071	1 958 847	1 496 081	1 560 818	1 927 280	13.77	23.48
Perlite	(t)	606 231	1 088 983	1 174 486	1 146 341	1 428 695	135.67	24.63
Phosphates	(t)	0	0	94 600	261 900	287 100	.	9.62
Salt	(t)	6 673 242	6 298 705	6 961 015	7 698 018	7 843 502	17.54	1.89
Sulfur	(t)	92 500	250 000	242 600	117 400	110 600	19.57	-5.79
Talc	(t)	474 482	284 216	92 077	143 470	220 350	-53.56	53.59
Vermiculite	(t)	1 618	18 183	1 370	19 230	3 300	103.96	-82.84
Zircon	(t)	1 200	1 950	0	0	0	-100.00	.

Abbreviations: see Definitions

Steam Coal	(t)	1 875 000	2 160 520	2 695 628	2 457 720	520 270	-72.25	-78.83
Coking Coal	(t)	764 000	692 130	698 870	617 280	716 000	-6.28	15.99
Lignite	(t)	71 459 170	81 084 000	83 694 600	71 637 000	84 531 660	18.29	18.00
Nat. Gas (Mio m <sup>3</sup> )		364	436	483	458	415	14.01	-9.39
Petroleum	(t)	2 551 929	2 850 828	2 984 800	3 202 924	3 441 659	34.86	7.45
Total	(t)	121 982 356	137 264 483	136 013 388	130 586 463	146 025 073		

## Turkmenistan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Bentonite	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Potash	(t)	0	15 200	11 100	16 000	19 000	.	18.75
Salt	(t)	100 000	100 000	100 000	94 600	96 000	-4.00	1.48
Sulfur	(t)	200 000	480 000	330 000	470 000	590 000	195.00	25.53
Nat. Gas (Mio m <sup>3</sup> )		70 600	70 000	71 000	67 960	83 773	18.66	23.27
Petroleum	(t)	10 950 000	10 640 000	10 420 000	9 490 000	10 961 000	0.10	15.50
Total	(t)	67 740 000	67 245 200	67 671 100	64 448 600	78 694 400		

## Uganda

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	1 390	2 700	0	0	0	-100.00	.
Niobium	(t)	3	2	2	52	2	-33.33	-96.15
Tungsten	(t)	37	113	87	7	11	-70.27	57.14
Beryllium	(t)	0	24	15	186	190	.	2.15
Tin	(t)	66	53	15	0	0	-100.00	.
Gold	(kg)	4	12	7	10	10	150.00	0.00
Kaolin	(t)	55 317	17 281	10 448	12 014	10 000	-81.92	-16.76
Vermiculite	(t)	4 119	10 413	9 674	14 170	14 000	239.89	-1.20
Total	(t)	60 932	30 586	20 241	26 429	24 203		

## Ukraine

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	38 767 600	38 751 300	47 584 000	49 274 000	52 431 000	35.24	6.41
Manganese	(t)	650 500	682 700	686 100	698 500	652 300	0.28	-6.61
Titanium	(t)	430 300	518 950	564 050	537 430	489 200	13.69	-8.97
Gallium	(t)	9	6	5	4	4	-55.56	0.00
Germanium	(t)	1	1	1	1	1	0.00	0.00
Bentonite	(t)	113 200	178 200	124 700	125 000	125 000	10.42	0.00
Feldspar	(t)	35 000	50 000	60 000	50 000	60 000	71.43	20.00
Graphite	(t)	13 000	15 000	10 000	10 000	17 000	30.77	70.00
Gypsum	(t)	1 528 900	1 386 400	1 409 400	1 529 000	1 783 300	16.64	16.63
Kaolin	(t)	2 379 636	2 091 525	1 843 561	1 680 891	2 317 723	-2.60	37.89

Abbreviations: see Definitions

Salt	(t)	1 815 684	2 191 619	2 092 795	2 075 000	1 900 000	4.64	-8.43
Sulfur	(t)	175 900	222 200	220 400	223 500	255 600	45.31	14.36
Zircon	(t)	27 239	21 614	18 000	16 000	27 000	-0.88	68.75
Steam Coal	(t)	18 932 900	21 648 100	19 747 200	17 733 500	22 153 000	17.01	24.92
Coking Coal	(t)	5 233 900	4 606 300	5 783 200	6 434 800	7 234 000	38.21	12.42
Nat. Gas (Mio m <sup>3</sup> )		20 510	20 806	20 520	20 183	19 757	-3.67	-2.11
Petroleum	(t)	2 169 900	2 293 300	2 453 600	2 430 800	2 455 400	13.16	1.01
Uranium	(t)	986	1 390	944	877	536	-45.64	-38.88
Total	(t)	88 682 655	91 303 405	99 013 956	98 965 703	107 706 664		

## United Arab Emirates

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Aluminium	(t)	2 600 000	2 640 000	2 579 000	2 505 000	2 577 680	-0.86	2.90
Sulfur	(t)	4 600 000	5 300 000	5 980 000	5 220 000	5 396 000	17.30	3.37
Nat. Gas (Mio m <sup>3</sup> )		59 495	58 082	57 517	55 445	56 994	-4.20	2.79
Petroleum	(t)	176 224 330	176 686 680	180 544 180	166 582 740	164 380 590	-6.72	-1.32
Total	(t)	231 020 330	231 092 280	235 116 780	218 663 740	217 949 470		

## United Kingdom

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Tungsten	(t)	1 086	890	0	0	0	-100.00	.
Aluminium	(t)	46 500	44 400	39 400	35 700	37 600	-19.14	5.32
Lead	(t)	100	100	150	100	100	0.00	0.00
Tin	(t)	255	220	0	0	0	-100.00	.
Gold	(kg)	0	0	50	28	79	.	182.14
Silver	(kg)	0	0	130	100	358	.	258.00
Baryte	(t)	55 000	55 000	50 000	50 000	50 000	-9.09	0.00
Fluorspar	(t)	11 000	11 000	14 000	15 000	16 674	51.58	11.16
Gypsum	(t)	1 300 000	1 400 000	1 600 000	1 300 000	1 300 000	0.00	0.00
Kaolin	(t)	970 000	996 000	715 000	635 000	620 000	-36.08	-2.36
Potash	(t)	297 400	291 100	88 480	99 260	110 460	-62.86	11.28
Salt	(t)	2 361 707	3 430 266	2 377 765	2 312 100	2 320 000	-1.77	0.34
Sulfur	(t)	133 000	129 000	130 000	106 000	110 000	-17.29	3.77
Talc	(t)	3 218	1 640	3 131	1 386	1 500	-53.39	8.23
Steam Coal	(t)	2 267 900	1 996 860	1 849 060	1 166 420	717 080	-68.38	-38.52
Coking Coal	(t)	773 160	785 470	742 340	506 870	336 740	-56.45	-33.56
Nat. Gas (Mio m <sup>3</sup> )		42 100	40 827	39 386	39 433	32 568	-22.64	-17.41
Petroleum	(t)	47 049 300	51 550 700	52 856 200	49 361 500	41 159 050	-12.52	-16.62
Total	(t)	88 949 626	93 354 246	91 974 326	87 135 736	72 833 604		

**Abbreviations:** see Definitions

## United States

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	30 177 000	31 185 000	29 547 000	24 100 000	30 100 000	-0.26	24.90
Cobalt	(t)	640	480	500	600	650	1.56	8.33
Molybdenum	(t)	40 700	41 400	43 600	51 100	41 100	0.98	-19.57
Nickel	(t)	22 100	17 600	13 500	16 700	18 400	-16.74	10.18
Titanium	(t)	66 000	100 000	100 000	100 000	100 000	51.52	0.00
Vanadium	(t)		0	460	17	0	.	-100.00
Aluminium	(t)	740 884	896 652	1 126 032	1 026 617	907 846	22.54	-11.57
Bauxite	(t)	352 100	399 700	154 900	16 440	0	-100.00	-100.00
Beryllium	(t)	3 760	4 170	4 050	4 160	4 380	16.49	5.29
Cadmium	(t)	150	73	131	211	241	60.67	14.22
Copper	(t)	1 260 000	1 220 000	1 260 000	1 200 000	1 230 000	-2.38	2.50
Germanium	(t)	2	2	2	2	2	0.00	0.00
Lead	(t)	310 000	280 000	274 000	297 000	286 000	-7.74	-3.70
Lithium	(t)	1 420	1 500	1 450	1 220	2 505	76.41	105.33
Mercury	(t)	15	15	15	15	15	0.00	0.00
Rare Earths	(t)	0	14 000	27 620	38 503	42 413	.	10.16
Rhenium	(kg)	8 200	8 220	8 360	8 830	9 290	13.29	5.21
Selenium	(t)	116	152	144	66	70	-39.66	6.06
Tellurium	(t)	0	0	2	2	2	.	0.00
Zinc	(t)	773 800	824 000	753 000	718 000	704 000	-9.02	-1.95
Gold	(kg)	236 986	225 528	201 000	193 400	187 000	-21.09	-3.31
Palladium	(kg)	13 600	14 267	14 323	14 555	13 725	0.92	-5.70
Platinum	(kg)	3 980	4 165	4 152	4 203	4 017	0.93	-4.43
Rhodium	(kg)	100	100	100	100	100	0.00	0.00
Silver	(kg)	1 030 000	934 000	981 000	1 030 000	1 020 000	-0.97	-0.97
Baryte	(t)	334 000	366 000	414 000	125 409	257 450	-22.92	105.29
Bentonite	(t)	4 450 000	4 570 000	4 520 000	4 250 000	4 590 000	3.15	8.00
Boron	(t)	1 075 000	1 075 000	1 030 000	830 000	900 000	-16.28	8.43
Diatomite	(t)	768 000	957 000	768 000	822 000	998 000	29.95	21.41
Feldspar	(t)	440 000	550 000	450 000	430 000	340 000	-22.73	-20.93
Gypsum	(t)	20 700 000	21 100 000	21 700 000	21 200 000	21 300 000	2.90	0.47
Kaolin	(t)	5 450 000	5 350 000	5 060 000	4 570 000	4 300 000	-21.10	-5.91
Magnesite	(t)	294 850	238 828	294 590	419 076	442 976	50.24	5.70
Perlite	(t)	587 000	504 000	629 000	845 000	884 000	50.60	4.62
Phosphates	(t)	7 840 000	7 250 000	6 547 000	6 604 000	6 070 000	-22.58	-8.09
Potash	(t)	480 000	520 000	510 000	460 000	480 000	0.00	4.35
Salt	(t)	39 900 000	43 900 000	45 000 000	43 000 000	42 000 000	5.26	-2.33
Sulfur	(t)	9 630 000	9 670 000	8 710 000	7 890 000	8 070 000	-16.20	2.28
Talc	(t)	610 000	648 000	578 000	491 000	577 000	-5.41	17.52
Vermiculite	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Zircon	(t)	45 000	100 000	30 000	30 000	30 000	-33.33	0.00
Steam Coal	(t)	573 904 900	562 012 600	521 540 300	394 850 100	429 228 900	-25.21	8.71
Coking Coal	(t)	67 388 600	71 948 200	64 168 100	50 358 700	56 084 900	-16.77	11.37
Lignite	(t)	61 394 500	51 744 500	48 255 700	44 783 600	42 968 700	-30.01	-4.05
Nat. Gas (Mio m <sup>3</sup> )		774 200	871 440	959 920	948 410	977 440	26.25	3.06
Petroleum	(t)	620 326 500	723 628 600	809 996 700	776 750 100	781 654 600	26.01	0.63
Uranium	(t)	1 108	657	79	7	9	-99.19	28.57
Total	(t)	2 068 829 438	2 238 371 315	2 341 545 083	2 145 108 896	2 216 667 393		

Abbreviations: see Definitions

## Uruguay

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	1 010	2 520	2 510	1 240	3 310	227.72	166.94
Gold	(kg)	1 055	393	0	0	0	-100.00	.
Bentonite	(t)	6 640	7 760	6 730	16 550	19 710	196.84	19.09
Feldspar	(t)	370	380	100	210	240	-35.14	14.29
Talc	(t)	100	420	50	520	570	470.00	9.62
Total	(t)	8 121	11 080	9 390	18 520	23 830		

## Uzbekistan

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Molybdenum	(t)	700	750	800	760	1 282	83.14	68.68
Tungsten	(t)	103	97	100	20	25	-75.73	25.00
Bismuth	(t)	0	0	2	2	2	.	0.00
Cadmium	(t)	306	237	250	450	470	53.59	4.44
Copper	(t)	109 000	117 000	137 300	142 800	148 500	36.24	3.99
Lead	(t)	26 000	21 300	19 100	18 400	30 500	17.31	65.76
Rhenium	(kg)	530	500	800	1 000	2 370	347.17	137.00
Selenium	(t)	25	28	30	40	90	260.00	125.00
Tellurium	(t)	3	2	2	3	5	66.67	66.67
Zinc	(t)	47 200	38 400	35 400	37 200	42 000	-11.02	12.90
Gold	(kg)	89 900	92 716	100 900	100 000	100 360	11.64	0.36
Palladium	(kg)		0	28	91	160	.	75.82
Silver	(kg)	232 300	161 700	172 000	196 000	211 500	-8.95	7.91
Bentonite	(t)	10 000	12 559	32 588	48 739	50 000	400.00	2.59
Kaolin	(t)	269 906	291 814	377 184	373 440	413 910	53.35	10.84
Phosphates	(t)	170 000	144 000	137 100	150 500	150 000	-11.76	-0.33
Potash	(t)	114 900	176 900	198 400	210 000	197 600	71.98	-5.90
Steam Coal	(t)	160 000	160 000	245 168	246 800	258 100	61.31	4.58
Lignite	(t)	3 878 670	4 014 400	3 807 600	3 869 375	4 781 193	23.27	23.56
Nat. Gas	(Mio m <sup>3</sup> )	56 417	59 842	60 538	49 736	53 802	-4.64	8.18
Petroleum	(t)	2 766 600	2 890 915	2 816 300	2 160 400	2 098 400	-24.15	-2.87
Uranium	(t)	4 009	4 062	4 127	4 127	4 158	3.72	0.75
Total	(t)	52 691 345	55 746 320	56 242 125	47 052 153	51 218 149		

## Venezuela

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	4 615 000	2 017 500	2 062 800	1 235 000	1 462 500	-68.31	18.42
Aluminium	(t)	136 000	64 700	10 000	9 996	38 340	-71.81	283.55
Bauxite	(t)	242 000	92 000	50 000	0	22 000	-90.91	.
Gold	(kg)	8 100	9 100	9 100	9 000	9 000	11.11	0.00

Abbreviations: see Definitions



Diam. (Gem)	(ct)	0	800	0	794	457	.	-42.44
Diam. (Ind)	(ct)	0	1 200	0	0	0	.	.
Feldspar	(t)	30 340	30 000	30 000	30 000	30 000	-1.12	0.00
Phosphates	(t)	19 320	16 800	21 500	20 000	20 000	3.52	0.00
Salt	(t)	600 000	600 000	600 000	500 000	500 000	-16.67	0.00
Sulfur	(t)	700 000	700 000	500 000	300 000	300 000	-57.14	0.00
Steam Coal	(t)	370 000	100 000	379 907	683 583	166 842	-54.91	-75.59
Nat. Gas (Mio m <sup>3</sup> )		38 605	31 619	25 576	21 561	23 977	-37.89	11.21
Oil Sands*	(t)	25 000 000	20 000 000	18 000 000	14 900 000	15 000 000	-40.00	0.67
Petroleum	(t)	114 095 200	83 843 240	52 057 000	32 701 700	33 408 500	-70.72	2.16
Total	(t)	151 691 868	112 759 449	76 172 016	52 729 088	55 129 791		

\*Oil Sands as part of Petroleum

## Vietnam

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Iron	(t)	3 309 000	3 353 100	3 663 400	2 136 200	2 190 900	-33.79	2.56
Manganese	(t)	104 700	115 100	106 000	121 100	147 000	40.40	21.39
Titanium	(t)	117 160	122 250	112 680	139 760	127 070	8.46	-9.08
Tungsten	(t)	5 141	4 881	4 816	5 970	11 735	128.26	96.57
Antimony	(t)	230	245	396	312	305	32.61	-2.24
Bauxite	(t)	2 565 000	3 569 700	3 700 000	3 610 000	4 100 000	59.84	13.57
Bismuth	(t)	2 403	2 639	917	993	2 067	-13.98	108.16
Copper	(t)	21 100	25 300	29 240	30 780	33 580	59.15	9.10
Lead	(t)	4 500	14 500	12 500	14 100	16 350	263.33	15.96
Tin	(t)	5 200	5 745	6 369	6 798	6 000	15.38	-11.74
Zinc	(t)	12 000	12 000	13 000	11 150	10 700	-10.83	-4.04
Gold	(kg)	557	570	540	559	664	19.21	18.78
Baryte	(t)	70 000	50 000	43 000	51 500	39 600	-43.43	-23.11
Fluorspar	(t)	234 905	238 700	238 003	219 920	215 027	-8.46	-2.22
Graphite	(t)	0	1 500	3 500	3 700	1 200	.	-67.57
Kaolin	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Phosphates	(t)	1 376 400	1 299 660	1 346 880	606 650	598 400	-56.52	-1.36
Salt	(t)	648 500	996 500	945 000	1 134 600	1 287 200	98.49	13.45
Zircon	(t)	5 500	10 500	6 600	10 700	30 400	452.73	184.11
Steam Coal	(t)	38 409 000	42 384 000	47 158 000	44 598 000	48 308 000	25.77	8.32
Nat. Gas (Mio m <sup>3</sup> )		9 866	10 010	10 200	9 160	7 460	-24.39	-18.56
Petroleum	(t)	13 557 000	11 989 000	11 043 000	9 650 000	9 100 000	-32.88	-5.70
Total	(t)	68 440 540	72 303 321	76 693 302	69 780 234	72 293 535		

## Yemen

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Gypsum	(t)	50 000	50 000	20 000	20 000	20 000	-60.00	0.00
Salt	(t)	50 000	50 000	50 000	50 000	50 000	0.00	0.00

Abbreviations: see Definitions

Nat. Gas (Mio m <sup>3</sup> )		300	100	100	130	130	-56.67	0.00
Petroleum (t)		2 626 100	3 853 400	3 967 300	3 588 000	3 544 750	34.98	-1.21
Total (t)		2 966 100	4 033 400	4 117 300	3 762 000	3 718 750		

## Zambia

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Cobalt (t)		2 649	1 766	1 271	316	247	-90.68	-21.84
Manganese (t)		39 900	37 800	11 970	20 000	56 860	42.51	184.30
Nickel (t)			0	2 500	2 760	3 680	.	33.33
Beryllium (t)		4	7	7	2	6	50.00	200.00
Copper (t)		799 329	857 847	796 430	882 061	827 107	3.48	-6.23
Gold (kg)		4 373	4 044	4 522	3 994	3 987	-8.83	-0.18
Sulfur (t)		679 500	947 800	960 200	917 300	691 900	1.82	-24.57
Steam Coal (t)		208 608	344 717	361 648	446 153	663 345	217.99	48.68
Total (t)		1 729 994	2 189 941	2 134 031	2 268 596	2 243 149		

## Zimbabwe

		2017	2018	2019	2020	2021	Change 17/21	Change 20/21
Chromium (t)		309 980	402 600	720 330	572 460	644 400	107.88	12.57
Cobalt (t)		445	403	402	956	230	-48.31	-75.94
Nickel (t)		16 594	17 850	16 918	16 480	16 213	-2.30	-1.62
Tungsten (t)		3	16	37	30	8	166.67	-73.33
Copper (t)		8 839	9 077	8 731	7 933	8 650	-2.14	9.04
Lithium (t)		1 850	3 160	2 650	860	1 670	-9.73	94.19
Gold (kg)		26 495	35 054	29 429	20 873	31 477	18.80	50.80
Palladium (kg)		11 822	12 094	11 640	12 890	12 619	6.74	-2.10
Platinum (kg)		14 257	14 703	13 857	15 004	14 732	3.33	-1.81
Rhodium (kg)		1 283	1 334	1 224	1 368	1 334	3.98	-2.49
Diam. (Gem) (ct)		752 360	975 730	423 840	534 090	845 040	12.32	58.22
Diam. (Ind) (ct)		1 755 500	2 276 690	1 695 350	2 136 370	3 380 140	92.55	58.22
Graphite (t)		1 577	0	0	0	0	-100.00	.
Phosphates (t)		18 000	15 400	8 100	13 500	11 900	-33.89	-11.85
Vermiculite (t)		23 302	33 161	25 524	26 388	27 713	18.93	5.02
Steam Coal (t)		2 682 650	3 049 730	2 486 960	2 517 060	2 759 100	2.85	9.62
Coking Coal (t)		245 549	297 770	242 960	233 830	486 900	98.29	108.23
Total (t)		3 308 842	3 829 231	3 512 668	3 389 547	3 956 845		

**Abbreviations:** see Definitions

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