



WORLD MINING DATA 2018
IRON AND FERRO ALLOY METALS
NON-FERROUS METALS
PRECIOUS METALS
INDUSTRIAL MINERALS
MINERAL FUELS

**BUNDESMINISTERIUM
FÜR NACHHALTIGKEIT
UND TOURISMUS**



International Organizing
Committee for the
World Mining Congresses

IMPRESSUM

Media Owner and Publisher:
FEDERAL MINISTRY
OF SUSTAINABILITY AND TOURISM
Stubenring 1, 1010 Vienna
www.bmmt.gv.at

Text and Editing: DI Christian Reichl
Database Programming: Mag. Michael Schatz
Layout of Statistical Tables: Alexandra Masopust
Graphic Design: GrafikDesign Mag. Werner Resel
Design Concept: WIEN NORD Werbeagentur

ISBN 978-3-901074-44-8

Alle Rechte vorbehalten.
Wien, 02. 05. 2018

WORLD MINING DATA
C. REICHL, M. SCHATZ, G. ZSAK
VOLUME 33
MINERALS PRODUCTION / VIENNA 2018

BUNDESMINISTERIUM
FÜR NACHHALTIGKEIT
UND TOURISMUS



International Organizing
Committee for the
World Mining Congresses

PREFACE

RAW MATERIALS ARE THE LIFEBLOOD of the economy. The sufficient supply of mineral raw materials under fair market conditions is an essential basis for a sustainable and well-functioning economy. Therefore, a detailed and objective analysis of regional and sectoral trends in global mining production is crucial for a forward looking minerals policy. This can help to identify potential short or medium-term supply risks.

Although the geological availability of minerals is relatively high, geopolitical and economic disorders can lead to a shortfall of mineral resources. In order to enhance the competitiveness and sustainability of European industry, the European Union focuses on innovative solutions along the entire value chain. The main strategic thrust is the reduction of the import dependency on raw materials especially on critical metals needed for high-technology applications. European Raw Materials Industry should come into frontrunner position. Circular Economy will help to secure the supply of affordable resources in the long term.

Detailed knowledge of mineral production, market concentrations and trends are important for foresight policy and decision-making. I am delighted that the annual publication "World Mining Data" serves since more than 30 years as a valuable basis for renowned national and international institutions, contributing to commodity forecasts. In this way, the Federal Ministry of Sustainability and Tourism of Austria provides an important contribution to international resource policy.

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

“Glück Auf!”

A stylized, handwritten signature in green ink, appearing to read 'E. Köstinger'.

ELISABETH KÖSTINGER
Federal Minister for Sustainability and
Tourism

MINERALS ARE THE LIFEBLOOD OF THE ECONOMY

World mining production

2016

16.9 Billion metric tons

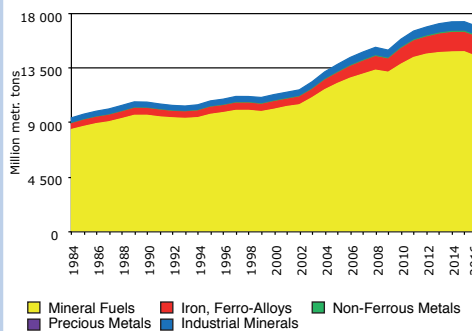
2000

11.3 Billion metric tons

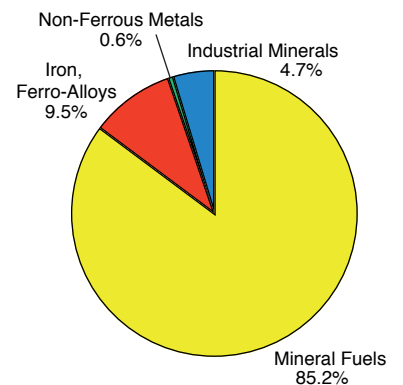
1985

9.7 Billion metric tons

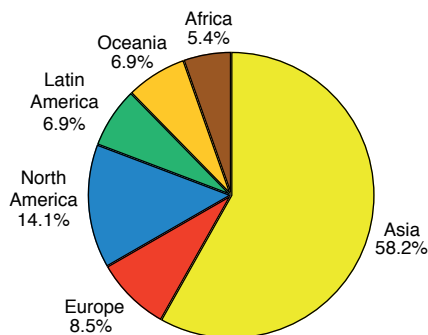
Total mining production 1984-2016 in Million metric tons



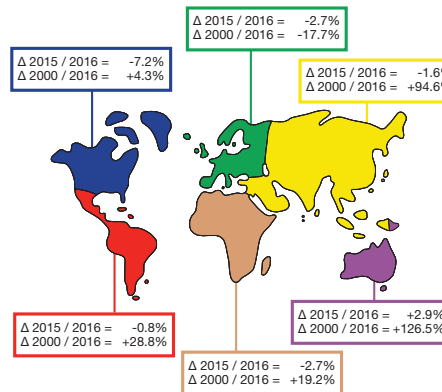
Total production 2016 by groups of minerals



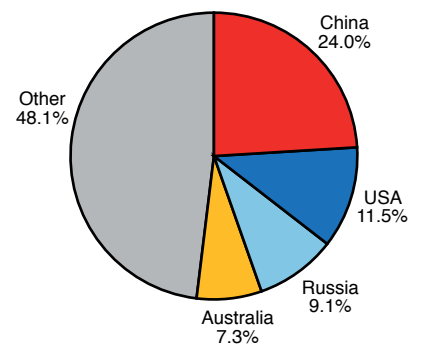
Total production 2016 by continents



In 2016 only Oceania shows a positive growth rate

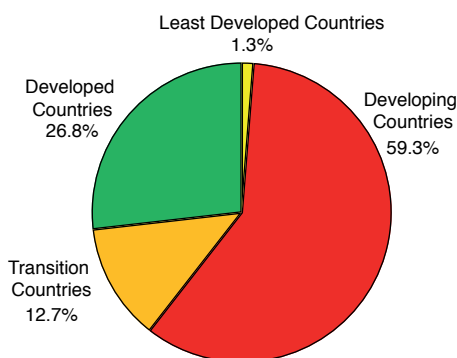


China, USA, Russia and Australia are the 4 biggest mining nations

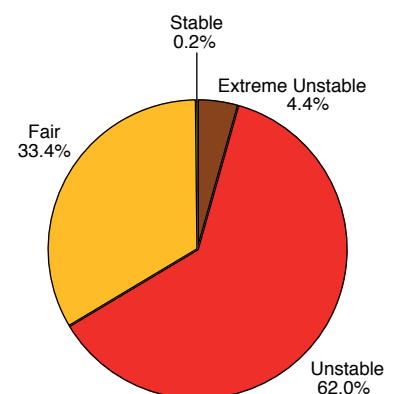


China is World's largest Producer of 28 different Mineral Raw Materials:

- **3 Iron and Ferro Alloy Metals:** Mo, W, V
- **13 Non-Ferrous Metals:** Al, Sb, As, Bi, Cd, Ga, Ge, Pb, Hg, REE, Se, Sn, Zn
- **1 Precious Metal:** Au
- **9 Industrial Minerals:** Baryte, Fluorspar, Graphite, Gypsum, Kaolin, Magnesite, Phosphates, Salt, Talc
- **2 Mineral Fuels:** Steam coal, Coking coal



Developing countries share around 60 % of global production.

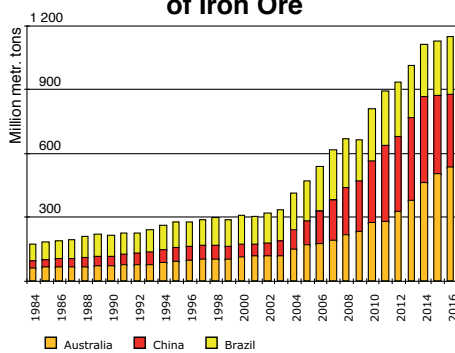


2/3 of global production is mined in politically unstable countries.

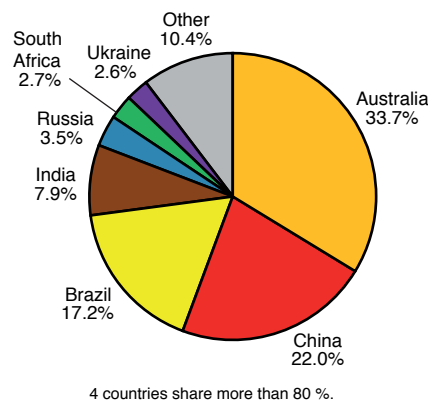
THE SUFFICIENT SUPPLY of mineral raw materials under fair market conditions is an essential basis for a sustainable and well-functioning economy. Detailed and objective analysis of data is the fundament of a forward looking minerals policy.

The charts give an overview on major current developments in global mining production based on World Mining Data 2018.

Development of industrialization goes hand in hand with the production of Iron Ore



Key mineral raw material Iron Ore



Ratio of Iron Ore to all other Ferro-Alloy Metals is

97.6 % to 2.4 %

Growth rate of total Iron Ore production 2000/2016 is

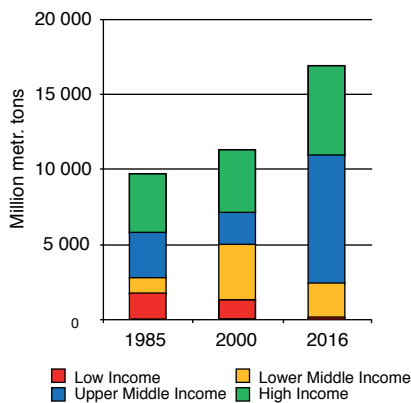
162.0 %

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

99.2 % to 0.8 %

Growth rate of total Non-Ferrous production 2000/2016 is

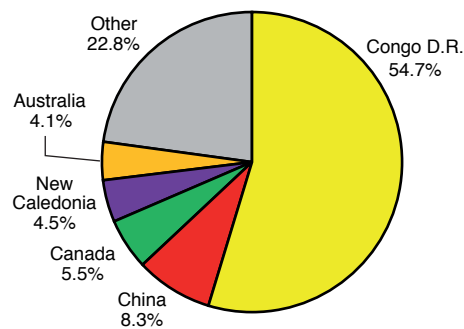
95.0 %



Mineral production contributes to wealth.

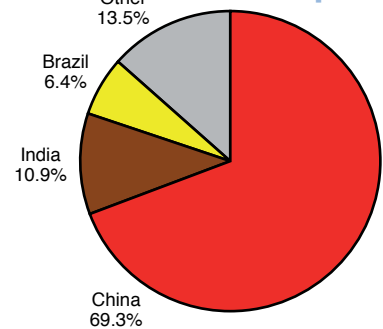
Key commodities for battery technology: Cobalt, Lithium, Graphite

Cobalt



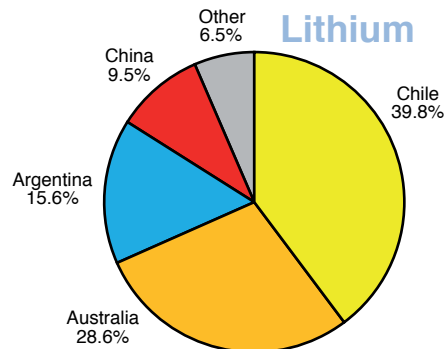
Since decades Congo D.R. is dominating primary Cobalt production.

Graphite



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

Lithium



Largest 4 producer countries share 93.5 %

Lithium

Li₂O-ratio of brines to hard rock ore is around

62.0 % to 38.0 %

CONTENT

PREFACE

CONTENT

1	MINERAL RAW MATERIALS	1
2	DEFINITIONS	2
3	DETAILS ON CONTENTS, WEIGHTS, MEASURES AND VALUES	5
4	REGIONAL AND SECTORAL GROUPS	8
4.1	DEVELOPMENT STATUS OF PRODUCER COUNTRIES	8
4.2	REGIONAL GROUPS OF PRODUCER COUNTRIES	9
4.3	ECONOMIC BLOCKS OR CARTEL-LIKE ASSOCIATIONS	10
4.4	POLITICAL STABILITY OF PRODUCER COUNTRIES	12
4.5	MINERALS PRODUCTION BY GNI (GROSS NATIONAL INCOME) OF PRODUCER COUNTRIES	12
4.6	CONCENTRATION OF PRODUCER COUNTRIES	13
5	DATA CAPTURE	14
	CHARTS	15
	DATA	19
6	WORLD PRODUCTION OF MINERAL RAW MATERIALS	19
6.1	TOTAL WORLD PRODUCTION	19
6.1.1	TOTAL MINERALS PRODUCTION, BY CONTINENTS	19
6.1.2	TOTAL MINERALS PRODUCTION, BY WORLD REGIONS (ACCORDING TO IIASA)	21
6.1.3	TOTAL MINERALS PRODUCTION, BY DEVELOPMENT STATUS OF PRODUCER COUNTRIES	23
6.1.4	TOTAL MINERALS PRODUCTION, BY COUNTRY GROUPS AND ECONOMIC BLOCKS	24
6.1.5	TOTAL MINERALS PRODUCTION, BY POLITICAL STABILITY OF PRODUCER COUNTRIES	26
6.1.6	TOTAL MINERALS PRODUCTION, BY GROUPS OF COMMODITIES	27
6.1.7	MINERAL FUELS	29
6.1.7.1	TOTAL PRODUCTION IN METR. T	29

CONTENT

6.1.7.2	TOTAL PRODUCTION IN TONS COAL EQUIVALENTS (CE)	30
6.1.8	TOTAL MINERALS PRODUCTION 2016, BY COUNTRY	32
6.1.8.1	BY PRODUCTION IN METR. T	32
6.1.8.2	BY VALUE IN MILLION USD (NOT INCLUDED DIAMONDS)	35
6.2	WORLD PRODUCTION OF MINERAL RAW MATERIALS, BY MINERAL RAW MATERIALS	39
6.2.1	IRON AND FERRO-ALLOY METALS	39
6.2.2	NON-FERROUS METALS	39
6.2.3	PRECIOUS METALS	40
6.2.4	INDUSTRIAL MINERALS	40
6.2.5	MINERAL FUELS	41
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	43
6.3.1	IRON AND FERRO-ALLOY METALS	43
6.3.2	NON-FERROUS METALS	51
6.3.3	PRECIOUS METALS	65
6.3.4	INDUSTRIAL MINERALS	68
6.3.5	MINERAL FUELS	84
6.4	PRODUCTION OF MINERAL RAW MATERIALS OF INDIVIDUAL COUNTRIES, BY MINERALS	91
6.4.1	IRON AND FERRO-ALLOY METALS	91
6.4.2	NON-FERROUS METALS	97
6.4.3	PRECIOUS METALS	107
6.4.4	INDUSTRIAL MINERALS	111
6.4.5	MINERAL FUELS	127
6.5	SHARE OF WORLD MINERAL PRODUCTION 2016, BY COUNTRIES	135
6.5.1	IRON AND FERRO-ALLOY METALS	135
6.5.2	NON-FERROUS METALS	141
6.5.3	PRECIOUS METALS	150

CONTENT

6.5.4	INDUSTRIAL MINERALS	155
6.5.5	MINERAL FUELS	171
6.6	PRODUCTION OF MINERAL RAW MATERIALS OF INDIVIDUAL COUNTRIES, BY COUNTRIES	179

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, Bismuth, Cadmium, Copper, Gallium, Germanium, Lead, Lithium, Mercury, Rare Earth Minerals, Rhenium, Selenium, Tellurium, Tin, Zinc

PRECIOUS METALS:

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

INDUSTRIAL MINERALS:

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

MINERAL FUELS:

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

2 DEFINITIONS

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

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

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

WEIGHTS AND MEASURES:

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

CONVERSION TABLE:

Volume units:

1 Cubic foot (ft ³)	=	Cubic meter (m ³)*0.028317
1 Cubic meter (m ³)	=	Cubic foot (ft ³)*35.31467
1 US (=petroleum) barrel (bbl)	=	42 liquid US gallons=158.98 l
1 flask Mercury	=	76 lb = 34.5 kg

Conversion for salt brine:

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

Conversion factor natural gas:

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

Conversion for crude petroleum (approximate method):

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

Pakistan's official conversion of domestic crude oil is 7.6 bbl = 1 metr. t

Conversion factor lignite (metr. t to t CE = coal equivalents):

Greece, Macedonia.....	0.19
Germany.....	0.29

Afghanistan, Algeria, Argentina, Bangladesh, Belgium, Belarus, Bhutan, Botswana, Brazil, Burundi, Central African Republic, Chile, Colombia, Costa Rica, Cuba, Czech Republic, Dominican Republic, Ecuador, Egypt, Ethiopia, Falkland/Malvinas Islands, Finland, Georgia, Haiti, Honduras, Indonesia, Iran, Ireland, Israel,

EXPLANATION

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, Swaziland, 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 hard coal (steam coal, coking coal) (metr. t to t CE = coal equivalents):	
Czech Republic.....	0.60
Indonesia.....	0.65
Armenia, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Ukraine, Uzbekistan.....	0.66
Cameroon, Chile, Ecuador, Pakistan, St. Vincent/Grenadines, Sweden.....	0.70
India.....	0.71
China, Remaining Eastern Asia.....	0.72
Croatia, Serbia and Montenegro, former Yugoslavia.....	0.76
Spain.....	0.77
Japan, Nigeria.....	0.78
Afghanistan, Albania, Algeria, Argentina, Bangladesh, Bhutan, Bolivia, Bosnia-Herzegovina, Botswana, Brazil, Bulgaria, Burundi, Cambodia, Central African Republic, Costa Rica, Cuba, Denmark, Dominican Republic, Egypt, 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, Swaziland, 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
d	World Nuclear Association
e	National statistics
f	Metallgesellschaft (until 1998)
g	World Mineral Statistics (until 2006)
h	Mining Annual Review (until 2002)
j	World Oil (until 1996)
m	OECD and ECE
n	Others (Company reports etc.)
o	Oil & Gas Journal
p	IEA
q	International Consultative Group
r	BP plc
s	British Geological Survey

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 ₂ O ₃	metr. t
Cobalt	Co	metr. t
Manganese	Mn	metr. t
Molybdenum	Mo	metr. t
Nickel	Ni	metr. t
Niobium	Nb ₂ O ₅	metr. t
Tantalum	Ta ₂ O ₅	metr. t
Titanium	TiO ₂	metr. t
Tungsten	W	metr. t
Vanadium	V ₂ O ₅	metr. t

NON-FERROUS METALS:

Aluminium	Al, smelter prod.	metr. t
Antimony	Sb	metr. t
Arsenic	As ₂ O ₃	metr. t
Bauxite	crude ore	metr. t
Bismuth	Bi	metr. t
Cadmium	Cd, smelter prod.	metr. t
Copper	Cu	metr. t
Gallium	Ga	metr. t
Germanium	Ge	metr. t
Lead	Pb	metr. t
Lithium	Li ₂ O	metr. t
Mercury	Hg	metr. t
Rare Earth Minerals	REO	metr. t
Rhenium	Re	kg
Selenium	Se	metr. t
Tellurium	Te	metr. t

EXPLANATION

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)		carats
Diamonds (Ind)		carats
Diatomite		metr. t
Feldspar		metr. t
Fluorspar		metr. t
Graphite		metr. t
Gypsum and Anhydrite		metr. t
Kaolin (China-Clay)		metr. t
Magnesite		metr. t
Perlite		metr. t
Phosphates	P2O5	metr. t
Potash	K2O	metr. t
Salt (rock salt, brines, marine salt)		metr. t
Sulfur (elementar and industrial sulfur)		metr. t
Talc, Steatite and Pyrophyllite		metr. t
Vermiculite		metr. t
Zircon	Conc.	metr. t

MINERAL FUELS:

Steam coal (incl. anthracite, bituminous and sub-bituminous coal)		metr. t
Coking coal		metr. t
Lignite		metr. t
Natural Gas		Mio m3
Oil Sands	crude	metr. t
Oil Shales		metr. t
Petroleum	crude	metr. t
Uranium	U3O8	metr. t

COMMODITY PRICES:

Sources of annual averages:

- Metall Bulletin
- Industrial Minerals
- BGR-Rohstoffdatenbank, 2017; Bundesanstalt für Geowissenschaften und Rohstoffe, Deutschland
- U.S. Geological Survey
- Kitco Metals Inc.
- Metal-Pages
- Cameco Corporation
- IEA: Coal Information
- U.S. Energy Information Administration / Monthly Energy

4 REGIONAL AND SECTORAL GROUPS

4.1 DEVELOPMENT STATUS OF PRODUCER COUNTRIES

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

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

DEVELOPED, DEVELOPING COUNTRIES:

According to OECD GLOSSARY OF STATISTICAL TERMS

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

For detailed list of developing countries see <http://unstats.un.org/unsd/methods/m49/m49regin.htm>.

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

LEAST DEVELOPED COUNTRIES:

According to OECD GLOSSARY OF STATISTICAL TERMS

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

Africa: Angola (1994), Benin (1971), Burkina Faso (1971), Burundi (1971), Central African Republic (1975), Chad (1971), Comoros (1977), Congo, D.R. (1991), Djibouti (1982), Equatorial Guinea (1982), 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)

EXPLANATION

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

Latin America and the Caribbean: Haiti (1971)

Source: United Nations. Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States (OHRLLS).

United Nations Internet site www.un.org

ECONOMIES IN TRANSITION:

According to UNCTAD HANDBOOK OF STATISTICS (2017)

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

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

4.2 REGIONAL GROUPS OF PRODUCER COUNTRIES

CPE: (CENTRALLY PLANNED ECONOMIES)

China, Cuba, Korea North, Mongolia, Vietnam

WORLD REGIONS: (ACCORDING TO IIASA)

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

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

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

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

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

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

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

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

PAO - Pacific OECD: Australia, Japan, New Zealand

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

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

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

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

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

4.3 ECONOMIC BLOCKS OR CARTEL-LIKE ASSOCIATIONS

ECONOMIC BLOCKS OR CARTEL-LIKE ASSOCIATIONS were included as follows (in alphabetical order, in brackets year of entry):

ACP COUNTRIES: AFRICAN, CARIBBEAN AND PACIFIC GROUP OF STATES LINKED TO THE EUROPEAN COMMUNITIES AS SIGNATORY TO THE GEORGETOWN AGREEMENT AND THE LOMÉ CONVENTIONS.

Africa: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo D.R., Congo Rep., Côte d'Ivoire, Djibuti, Equatorial Guinea, Eritrea, 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, Swaziland, 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: ASS. OF SOUTH EAST ASIAN NATIONS

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

BRICS COUNTRIES:

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

EC (EU): EUROPEAN COMMUNITY

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

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)

G8/G7: GROUP OF THE MOST IMPORTANT INDUSTRIALIZED COUNTRIES

[G7 (1976): Canada, Germany, France, Italy, Japan, United Kingdom, United States of America] including 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 joined MERCOSUR in July 2006; associated members: Bolivia, Chile, Colombia, Ecuador, Peru

NAFTA: NORTH AMERICAN FREE TRADE AGREEMENT

Canada, Mexico, United States of America

This association was established on January 1, 1994.

OECD: ORGANIZATION FOR ECONOMIC COOPERATION AND DEVELOPMENT

Australia (1971), Austria (1961), Belgium (1961), Canada (1961), Chile (2010), Czech Republic (1995), Denmark (1961), Estonia (2010), Finland (1969), France (1961), Germany (1961), Greece (1961), Hungary (1996), Iceland (1961), Ireland (1961), Israel (2010), Italy (1961), Japan (1964), Korea, South (1996), Latvia (2016), 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, Congo D.R. (1997), Lesotho, Madagascar (2005-2009, 2014), Malawi, Mauritius (1995), Mozambique, Namibia (1990), Seychelles (1997-2004, 2008) South Africa (1994), Swaziland, Tanzania, Zambia, Zimbabwe

4.4 POLITICAL STABILITY OF PRODUCER COUNTRIES

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

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 < -1.25: extremely unstable; < 0 to -1.25: unstable; > 0 to +1.25: fair; > +1.25: stable; (see fig. 6)

More information:

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

4.5 MINERALS PRODUCTION BY GNI (GROSS NATIONAL INCOME) OF PRODUCER COUNTRIES

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

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
	see 1987									
L	-	-	-	≤ 480	≤ 545	≤ 580	≤ 610	≤ 635	≤ 675	≤ 695
LM	-	-	-	≤ 1 940	≤ 2 200	≤ 2 335	≤ 2 465	≤ 2 555	≤ 2 695	≤ 2 785
UM	-	-	-	≤ 6 000	≤ 6 000	≤ 6 000	≤ 7 620	≤ 7 910	≤ 8 355	≤ 8 625
H	-	-	-	> 6 000	> 6 000	> 6 000	> 7 620	> 7 910	> 8 355	> 8 625
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
L	≤ 725	≤ 765	≤ 785	≤ 785	≤ 760	≤ 755	≤ 755	≤ 745	≤ 735	≤ 765
LM	≤ 2 895	≤ 3 035	≤ 3 115	≤ 3 125	≤ 3 030	≤ 2 995	≤ 2 995	≤ 2 975	≤ 2 935	≤ 3 035
UM	≤ 8 955	≤ 9 385	≤ 9 645	≤ 9 655	≤ 9 360	≤ 9 265	≤ 9 265	≤ 9 205	≤ 9 075	≤ 9 385
H	> 8 955	> 9 385	> 9 645	> 9 655	> 9 360	> 9 265	> 9 265	9 205	> 9 075	> 9 385

EXPLANATION

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
L	≤ 825	≤ 875	≤ 905	≤ 935	≤ 975	≤ 996	≤ 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	≤ 12 196	≤ 12 275	≤ 12 475	≤ 12 615	≤ 12 745
H	> 10 065	> 10 725	> 11 115	> 11 455	> 11 905	> 12 196	> 12 275	> 12 475	> 12 615	> 12 745
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
L	≤ 1 045	≤ 1 025	≤ 1 005							
LM	≤ 4 125	≤ 4 035	≤ 3 955							
UM	≤ 12 735	≤ 12 475	≤ 12 235							
H	> 12 735	> 12 475	> 12 235							

From: World Bank Analytical Classification World Development Indicators GNI per capita in US\$:

<http://blogs.worldbank.org/opendata/new-country-classifications>

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

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

5 DATA CAPTURE

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

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

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

Deadline: February 28, 2018

Data received later than February 28, 2018 will be implemented in the next edition of this report.

Please send any remarks to

wmd@bmnt.gv.at

christian.reichl@bmnt.gv.at

World Mining Data is available at:

<https://www.bmnt.gv.at/energie-bergbau/bergbau/Welt-Bergbau-Daten.html>

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

DISCLAIMER:

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

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

CHARTS

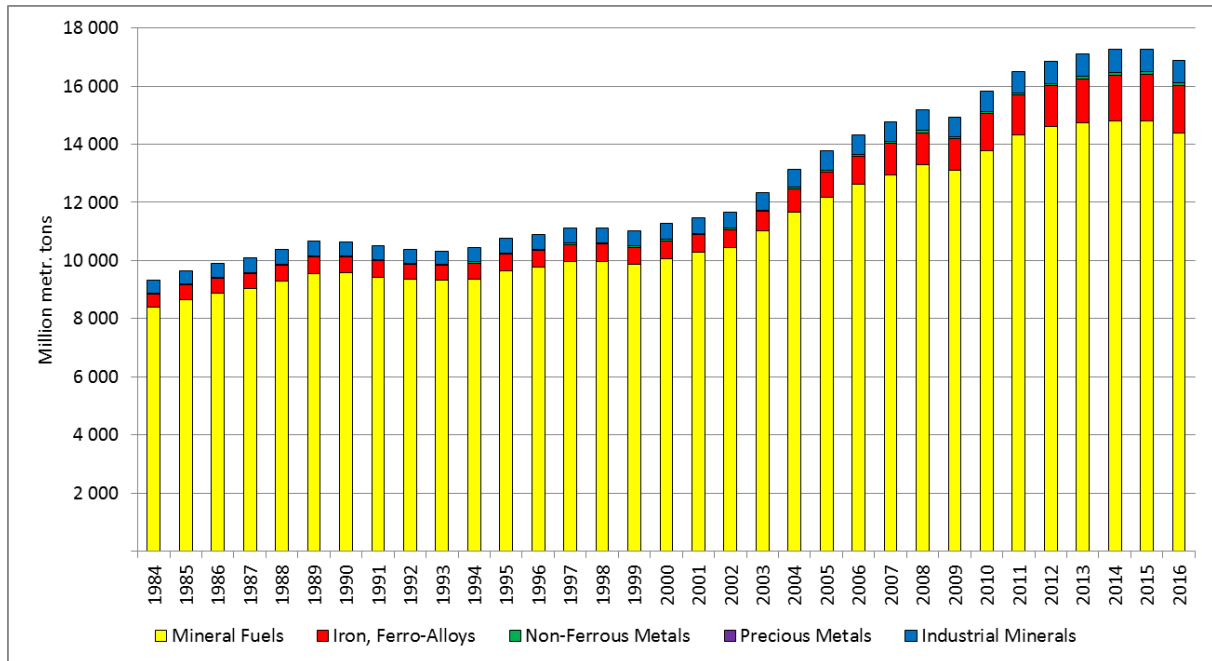


Fig. 1: World mining production 1984 - 2016 by groups of minerals
(without construction minerals, in Million metr. t)

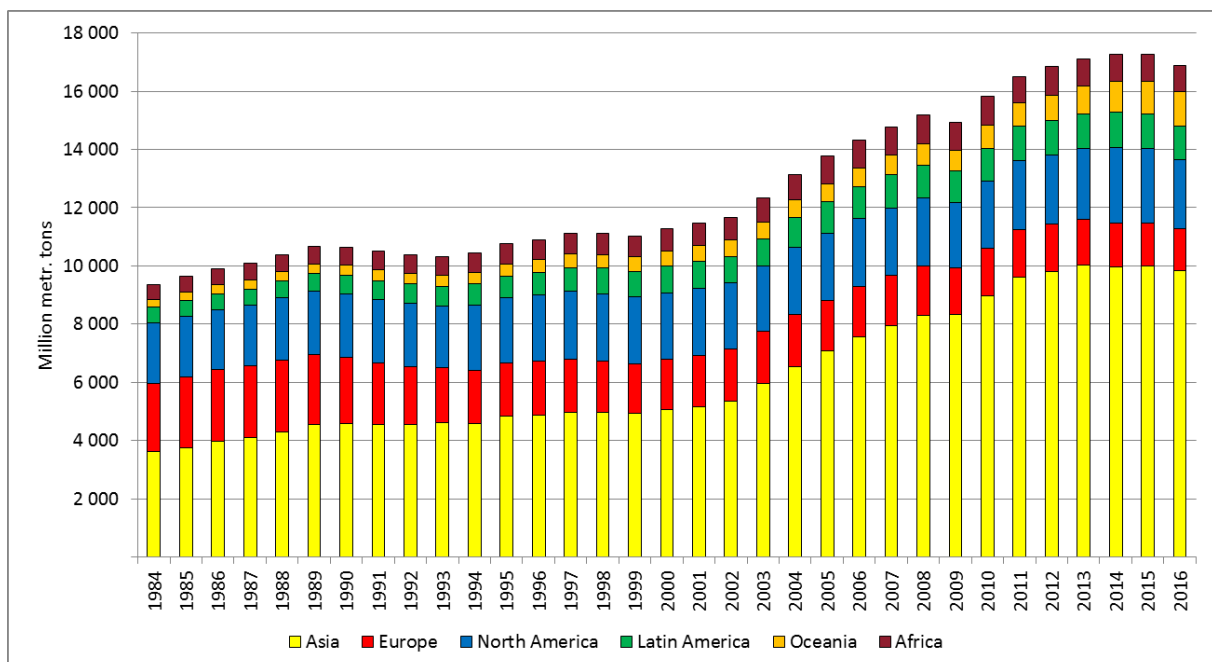


Fig. 2: World mining production 1984 - 2016 by continents
(without construction minerals, in Million metr. t)

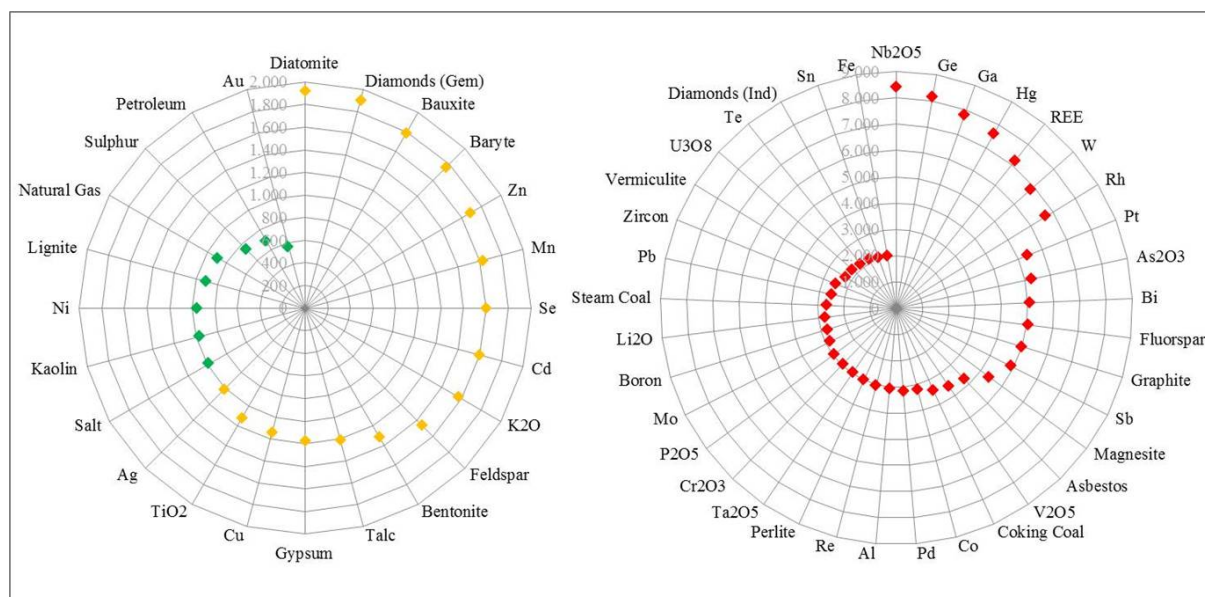


Fig. 3: Concentration of Producer Countries, Herfindahl-Hirschmann Indices in 2016
 left figure: $HHI < 2.000$
 right figure: $HHI > 2.000$
 (Country Concentration ◆ low, ◆ moderate) (Country Concentration ◆ high)

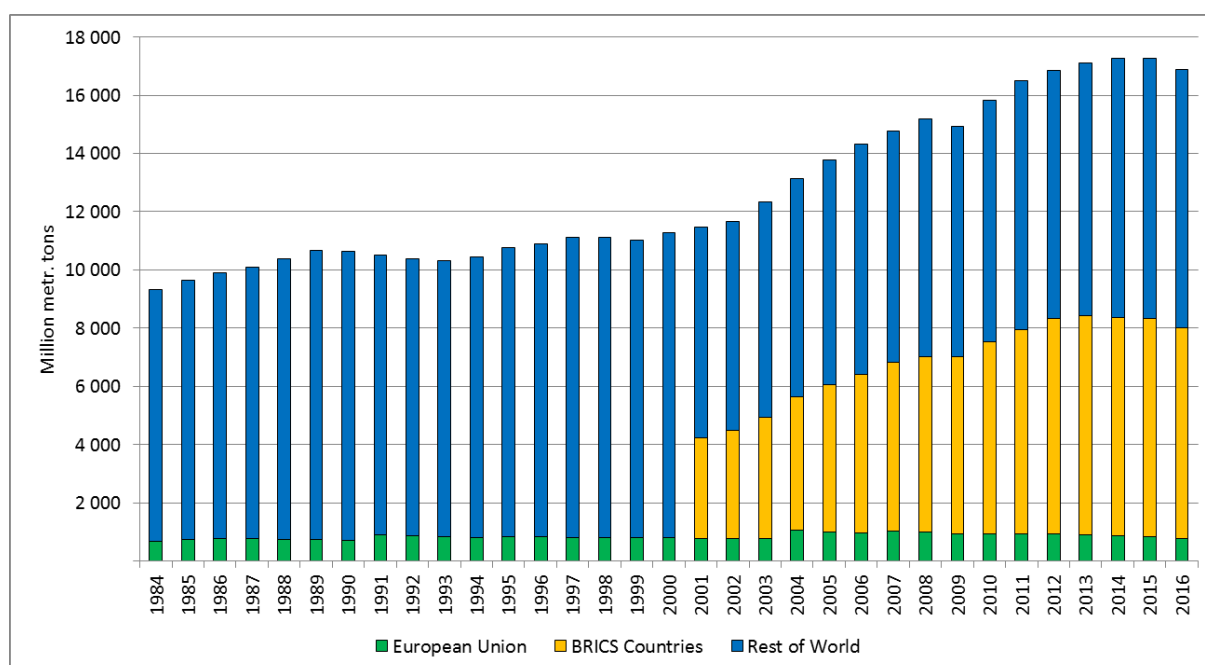


Fig. 4: World mining production 1984 - 2016 by economic blocks or cartel-like associations: European Union, BRICS Countries (without construction minerals, in Million metr. t)

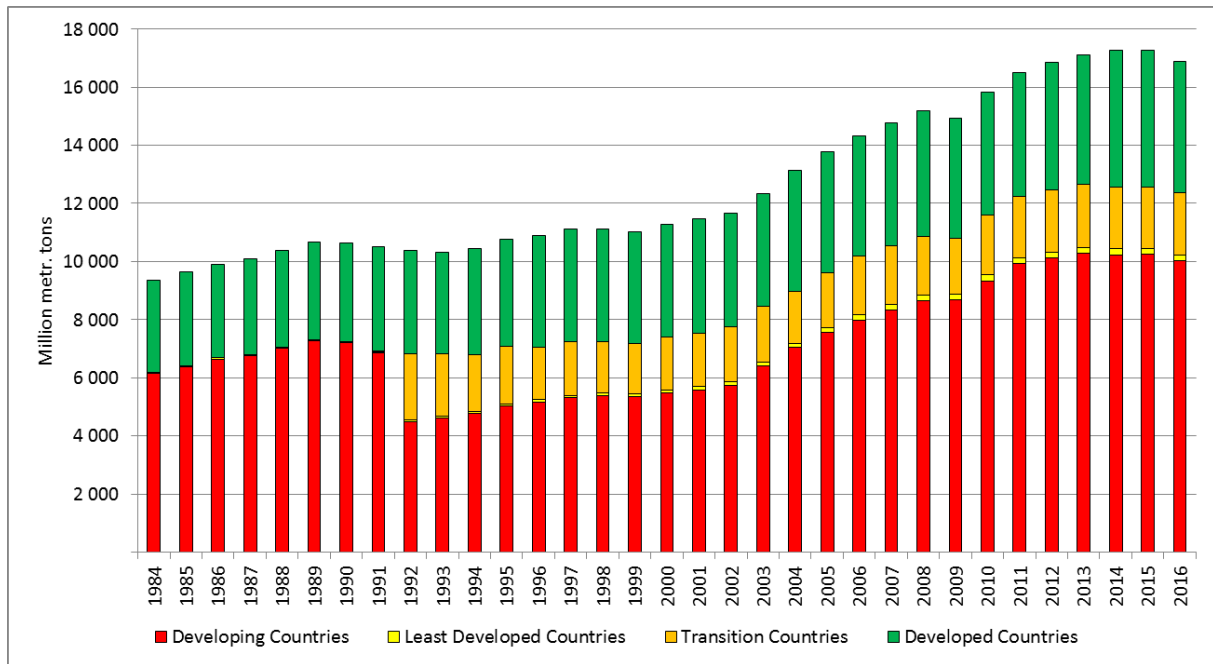


Fig. 5: World mining production 1984 - 2016 by development status of the producer countries (without construction minerals, in Million metr. t)

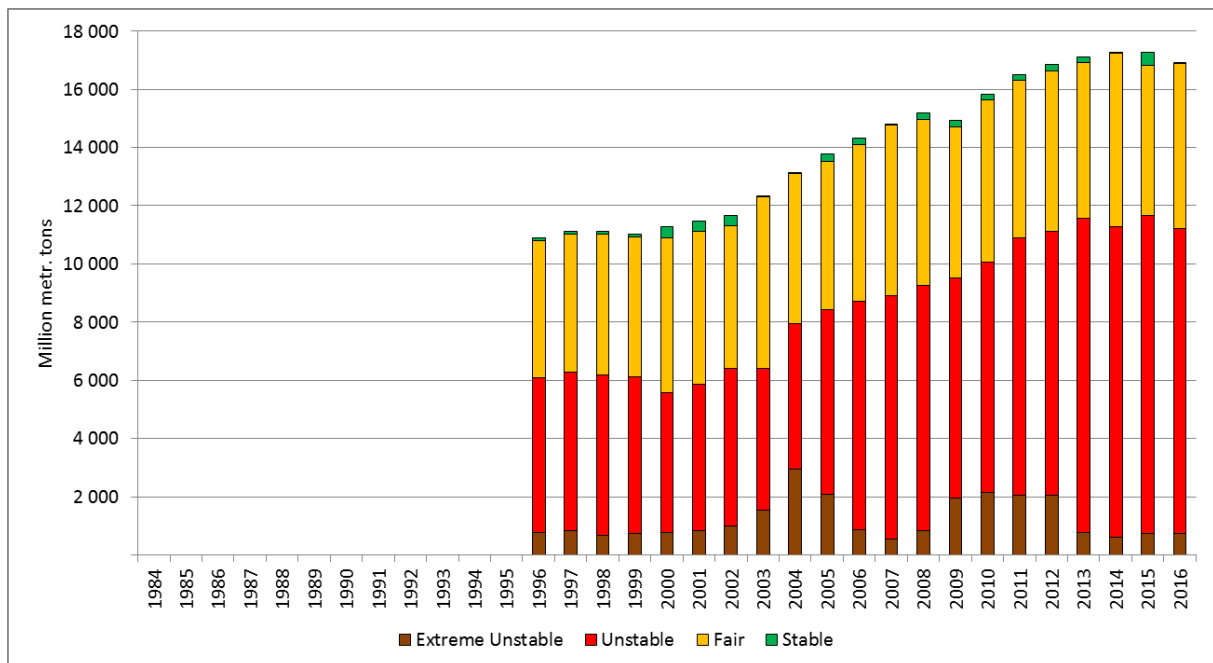


Fig. 6: World mining production 1984 - 2016 by political stability of the producer countries (without construction minerals, in Million metr. t)

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

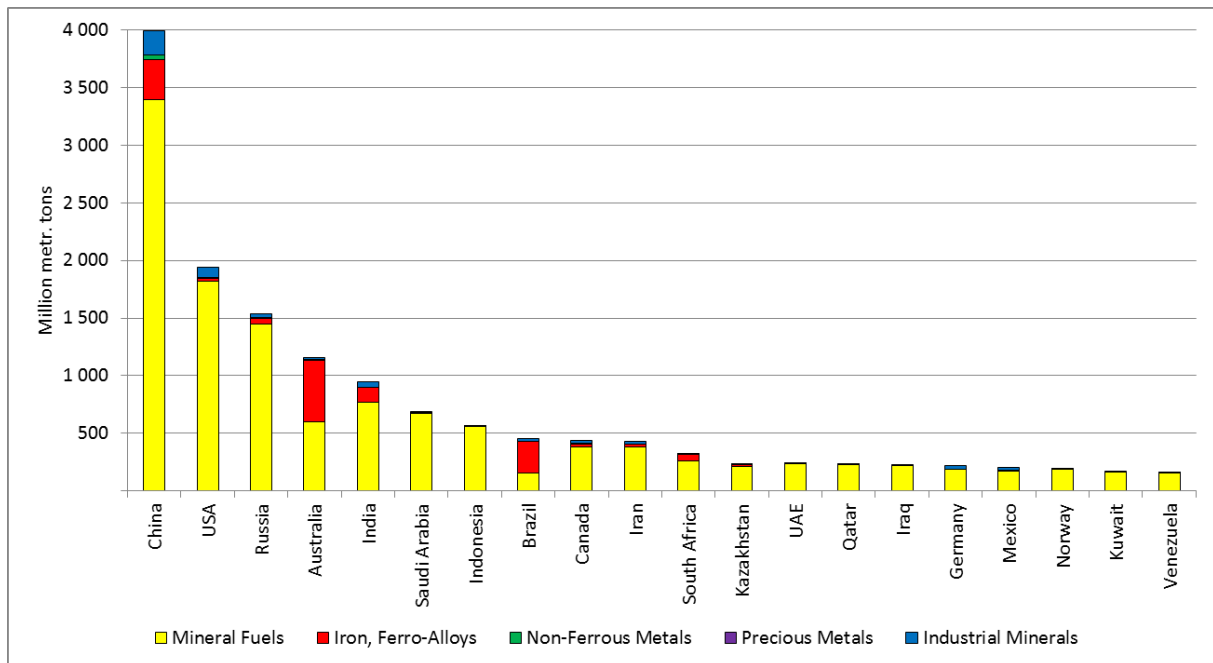


Fig. 7: 20 largest producer countries 2016 (without construction minerals, in Million metr. t)

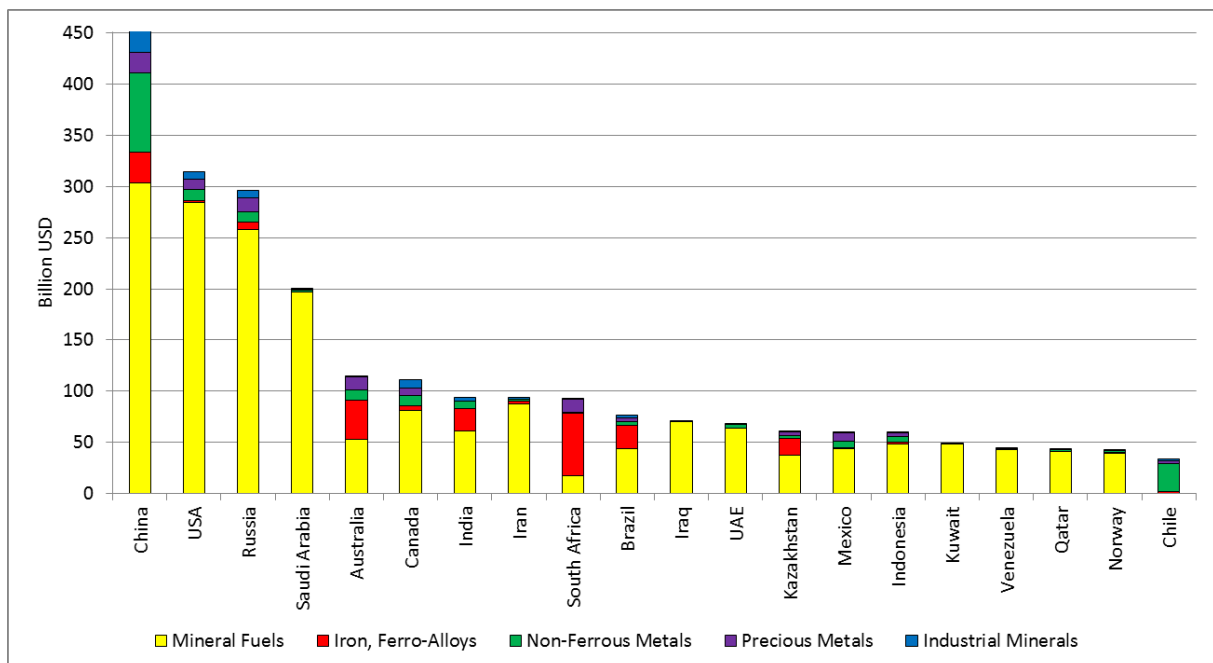


Fig. 8: 20 largest producer countries 2016 (without construction minerals, in Billion USD)

DATA

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	491 276 721	553 610 942	560 388 341	558 160 627	578 428 542
Asia	3 629 652 310	3 748 971 830	3 977 354 418	4 088 021 872	4 289 363 196
Europe	2 343 687 157	2 434 569 520	2 471 557 140	2 485 274 794	2 472 914 291
Latin America	561 656 516	566 227 500	572 362 352	562 032 109	589 417 393
North America	2 059 719 150	2 071 057 848	2 027 975 050	2 072 700 306	2 141 264 916
Oceania	254 304 717	280 585 462	293 089 049	322 497 415	304 198 846
Total	9 340 296 571	9 655 023 102	9 902 726 350	10 088 687 123	10 375 587 184
	1989	1990	1991	1992	1993
Africa	611 700 865	629 191 175	645 653 638	631 549 232	641 435 373
Asia	4 542 976 249	4 581 111 967	4 536 760 883	4 556 779 138	4 620 564 614
Europe	2 424 486 761	2 260 384 381	2 123 019 945	1 988 394 937	1 874 964 140
Latin America	611 839 909	644 489 943	661 164 649	668 925 750	686 669 878
North America	2 149 860 134	2 188 410 843	2 168 653 035	2 165 663 057	2 125 485 109
Oceania	332 211 070	349 504 282	363 876 081	369 159 700	381 049 770
Total	10 673 074 988	10 653 092 591	10 499 128 231	10 380 471 814	10 330 168 884
	1994	1995	1996	1997	1998
Africa	652 586 411	686 965 816	680 877 361	713 271 870	718 753 735
Asia	4 596 421 153	4 822 424 867	4 881 428 778	4 970 408 515	4 967 692 351
Europe	1 826 572 728	1 833 430 223	1 832 220 471	1 827 952 870	1 746 837 185
Latin America	717 877 546	742 279 525	774 401 249	811 749 188	885 376 211
North America	2 243 121 773	2 252 001 363	2 295 215 522	2 330 772 674	2 320 313 406
Oceania	394 042 978	416 270 247	431 442 164	464 934 097	474 888 151
Total	10 430 622 589	10 753 372 041	10 895 585 545	11 119 089 214	11 113 861 039

DATA

	1999	2000	2001	2002	2003
Africa	732 141 918	765 703 131	773 433 662	781 628 899	833 864 044
Asia	4 924 510 040	5 050 224 189	5 171 279 719	5 353 312 941	5 969 840 423
Europe	1 720 797 219	1 752 805 235	1 751 849 134	1 775 901 631	1 774 665 294
Latin America	875 914 956	906 771 250	916 366 690	921 607 366	954 274 778
North America	2 289 473 914	2 279 980 060	2 314 348 384	2 277 919 064	2 241 990 484
Oceania	492 669 579	517 124 366	539 623 880	553 396 293	552 944 587
Total	11 035 507 626	11 272 608 231	11 466 901 469	11 663 766 194	12 327 579 610
	2004	2005	2006	2007	2008
Africa	889 084 777	943 092 224	957 621 658	972 911 443	991 955 015
Asia	6 537 367 900	7 072 562 898	7 557 787 955	7 954 364 333	8 289 338 619
Europe	1 785 460 461	1 747 513 216	1 725 732 215	1 716 883 359	1 695 338 901
Latin America	1 032 476 317	1 073 631 745	1 111 758 491	1 134 174 869	1 124 955 708
North America	2 310 564 173	2 300 014 792	2 336 266 597	2 326 837 057	2 360 823 852
Oceania	593 202 132	626 746 117	644 000 185	676 453 717	711 557 436
Total	13 148 155 760	13 763 560 992	14 333 167 101	14 781 624 778	15 173 969 531
	2009	2010	2011	2012	2013
Africa	958 575 748	1 003 576 303	920 908 195	983 645 251	952 200 203
Asia	8 330 548 450	8 986 650 442	9 615 181 422	9 811 562 685	10 024 507 351
Europe	1 601 732 444	1 616 331 701	1 632 423 047	1 614 103 068	1 571 728 426
Latin America	1 072 173 680	1 129 710 220	1 174 914 022	1 188 939 464	1 176 132 748
North America	2 251 153 974	2 307 368 547	2 380 633 136	2 383 572 181	2 436 087 559
Oceania	727 426 707	797 260 833	790 726 520	866 274 020	961 045 524
Total	14 941 611 003	15 840 898 046	16 514 786 342	16 848 096 669	17 121 701 811
	2014	2015	2016	2017	2018
Africa	938 948 673	937 971 852	912 634 549		
Asia	9 976 789 738	9 987 524 797	9 828 606 023		
Europe	1 510 055 350	1 481 869 640	1 442 483 105		
Latin America	1 189 578 321	1 177 840 531	1 168 097 886		
North America	2 592 654 443	2 563 076 381	2 377 319 059		
Oceania	1 067 674 286	1 138 418 782	1 171 314 195		
Total	17 275 700 811	17 286 701 983	16 900 454 817		

Abbreviations: see Explanation

6.1.2 TOTAL MINERALS PRODUCTION, BY WORLD REGIONS (ACCORDING TO IIASA)

	(not including bauxite) in metr. t				
	1984	1985	1986	1987	1988
CAS					
CPA	1 092 737 345	1 159 743 155	1 199 270 888	1 242 781 855	1 308 351 975
EEU	636 434 074	645 554 466	664 780 323	676 584 195	687 098 406
FSU	2 008 661 016	2 051 071 742	2 128 800 679	2 179 901 214	2 169 789 690
LAM	561 626 516	566 195 755	572 326 064	561 995 821	589 381 093
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	2 059 749 150	2 071 089 593	2 028 011 338	2 072 736 594	2 141 301 216
PAO	280 172 695	306 119 932	318 043 791	344 001 158	323 928 277
PAS	188 340 003	196 551 734	207 290 187	210 049 392	220 300 462
SAS	239 428 915	250 496 548	275 180 380	284 930 463	307 781 867
SSA	317 226 954	335 705 782	344 734 565	341 836 912	357 965 418
WEU	1 164 224 104	1 251 723 088	1 264 101 151	1 258 010 456	1 233 286 180
Total	9 340 296 571	9 655 023 102	9 902 726 350	10 088 687 123	10 375 587 184
	1989	1990	1991	1992	1993
CAS				278 485 561	261 297 553
CPA	1 399 385 077	1 429 792 740	1 448 762 918	1 489 006 532	1 538 722 039
EEU	663 945 884	594 929 160	568 068 077	527 621 664	481 307 898
FSU	2 177 824 838	2 108 196 588	1 970 058 431	1 482 943 178	1 407 815 504
LAM	611 803 609	644 453 943	661 128 649	668 888 750	686 632 878
MEA	910 052 502	929 738 138	919 680 694	1 024 380 578	1 073 051 748
NAF	230 573 878	250 061 489	260 688 687	249 164 947	247 976 735
NAM	2 149 896 434	2 188 446 843	2 168 689 035	2 165 700 057	2 125 522 109
PAO	350 812 432	366 281 574	380 634 615	383 334 343	390 968 724
PAS	234 655 221	245 597 278	267 909 635	279 690 642	293 744 018
SAS	321 613 319	344 310 203	366 070 717	373 570 728	384 199 829
SSA	381 126 987	379 129 686	384 964 951	382 384 285	393 458 638
WEU	1 241 384 807	1 172 154 949	1 102 471 822	1 075 300 549	1 045 471 211
Total	10 673 074 988	10 653 092 591	10 499 128 231	10 380 471 814	10 330 168 884
	1994	1995	1996	1997	1998
CAS	219 913 989	208 691 614	207 423 374	196 255 041	189 487 730
CPA	1 620 743 842	1 756 778 818	1 827 861 940	1 788 222 466	1 740 925 618
EEU	473 330 177	473 329 323	475 814 475	465 799 677	426 667 791
FSU	1 256 945 444	1 286 921 242	1 194 806 751	1 251 395 631	1 236 192 868
LAM	717 840 046	742 242 025	774 364 249	811 712 688	885 340 211
MEA	1 078 716 826	1 090 052 872	1 099 977 729	1 174 119 763	1 230 894 322
NAF	251 073 843	262 416 382	248 183 472	257 594 302	257 192 208
NAM	2 243 159 273	2 252 038 863	2 295 252 522	2 330 809 174	2 320 349 406
PAO	404 502 567	426 998 859	441 489 681	472 909 999	481 930 132
PAS	297 994 385	323 486 443	344 896 077	355 311 487	349 677 534
SAS	404 686 390	434 661 185	453 450 881	476 071 183	464 113 974
SSA	401 512 568	424 549 434	432 693 889	455 677 568	461 561 527
WEU	1 060 203 239	1 071 204 981	1 099 370 505	1 083 210 235	1 069 527 718
Total	10 430 622 589	10 753 372 041	10 895 585 545	11 119 089 214	11 113 861 039

Abbreviations: see Explanation

DATA

	1999	2000	2001	2002	2003
CAS	193 189 461	227 803 359	249 789 785	260 696 996	282 590 545
CPA	1 676 970 161	1 672 820 591	1 728 829 070	1 878 326 527	2 268 394 708
EEU	405 152 560	418 948 260	421 744 469	414 324 863	415 183 733
FSU	1 221 888 832	1 240 984 931	1 241 622 532	1 296 395 120	1 346 133 556
LAM	875 878 956	906 771 250	916 366 690	921 607 366	954 274 778
MEA	1 223 385 562	1 302 780 212	1 308 055 605	1 261 279 321	1 368 734 210
NAF	274 893 639	291 278 229	292 003 404	295 825 223	323 298 425
NAM	2 289 509 914	2 279 980 060	2 314 348 384	2 277 919 064	2 241 990 484
PAO	500 164 800	525 235 998	549 131 742	559 227 111	559 211 330
PAS	357 577 456	356 785 264	374 326 255	386 159 582	411 779 667
SAS	484 445 067	503 113 092	524 385 940	555 615 559	595 343 350
SSA	457 248 279	474 424 902	481 430 258	485 803 676	510 565 619
WEU	1 075 202 939	1 071 682 083	1 064 867 335	1 070 585 786	1 050 079 205
Total	11 035 507 626	11 272 608 231	11 466 901 469	11 663 766 194	12 327 579 610
	2004	2005	2006	2007	2008
CAS	288 694 032	307 854 252	322 068 907	334 165 462	353 274 410
CPA	2 583 592 061	2 903 587 365	3 179 993 754	3 414 781 282	3 594 645 970
EEU	413 536 153	400 644 900	402 884 409	396 457 315	403 121 441
FSU	1 410 389 470	1 478 737 793	1 551 179 286	1 630 084 306	1 622 035 274
LAM	1 032 476 317	1 073 631 745	1 111 758 491	1 134 174 869	1 124 955 708
MEA	1 480 886 846	1 526 257 915	1 549 501 892	1 557 444 250	1 639 447 774
NAF	339 847 316	362 782 695	378 347 093	382 299 243	387 919 314
NAM	2 310 564 173	2 300 014 792	2 336 266 597	2 326 837 057	2 360 823 852
PAO	599 723 486	633 180 073	650 275 959	683 637 924	718 792 867
PAS	444 996 903	479 452 213	537 409 200	554 877 432	562 847 976
SAS	643 835 854	691 977 865	737 811 005	785 123 889	824 862 836
SSA	549 237 461	580 309 529	579 274 565	590 612 200	604 035 701
WEU	1 050 375 688	1 025 129 855	996 395 943	991 129 549	977 206 408
Total	13 148 155 760	13 763 560 992	14 333 167 101	14 781 624 778	15 173 969 531
	2009	2010	2011	2012	2013
CAS	325 611 171	345 732 645	370 458 083	378 881 672	380 359 237
CPA	3 704 360 643	4 079 193 283	4 449 465 453	4 523 609 162	4 654 965 091
EEU	380 973 151	378 213 704	408 049 897	397 766 724	376 438 825
FSU	1 544 121 222	1 651 724 153	1 699 257 461	1 714 233 009	1 729 444 410
LAM	1 072 173 680	1 129 710 220	1 174 914 022	1 188 939 464	1 176 132 748
MEA	1 559 194 302	1 669 361 294	1 806 824 444	1 856 840 801	1 868 994 952
NAF	368 194 412	371 937 872	296 372 350	336 038 417	306 537 768
NAM	2 251 153 974	2 307 368 547	2 380 633 136	2 383 572 181	2 436 087 559
PAO	734 474 715	804 222 443	797 170 129	872 711 855	967 238 671
PAS	606 197 099	661 161 528	742 590 466	788 776 647	835 698 871
SAS	887 883 195	891 532 522	877 403 553	878 380 373	890 147 559
SSA	590 381 336	631 638 431	624 535 845	647 606 834	645 662 435
WEU	916 892 103	919 101 404	887 111 503	880 739 530	853 993 685
Total	14 941 611 003	15 840 898 046	16 514 786 342	16 848 096 669	17 121 701 811

Abbreviations: see Explanation

DATA

	2014	2015	2016	2017	2018
CAS	385 402 194	375 028 443	366 964 669		
CPA	4 574 786 733	4 496 390 936	4 158 562 729		
EEU	359 225 277	368 976 213	356 051 318		
FSU	1 695 547 204	1 691 381 451	1 716 024 395		
LAM	1 189 578 321	1 177 840 531	1 168 097 886		
MEA	1 896 504 038	1 983 627 860	2 085 624 794		
NAF	282 765 552	274 243 837	276 940 409		
NAM	2 592 654 443	2 563 076 381	2 377 319 059		
PAO	1 071 705 125	1 140 659 989	1 173 501 467		
PAS	827 399 617	783 746 038	794 213 084		
SAS	921 913 961	968 009 577	1 020 922 444		
SSA	656 183 121	663 728 015	635 694 140		
WEU	822 035 225	799 992 712	770 538 423		
Total	17 275 700 811	17 286 701 983	16 900 454 817		

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.	3 149 502 518	3 248 360 929	3 221 812 891	3 287 862 197	3 317 958 023
Transition C.	0	0	0	0	0
Developing C.	6 166 680 763	6 385 160 280	6 647 635 631	6 764 071 209	7 010 714 368
Least Developed C.	24 113 290	21 501 893	33 277 828	36 753 717	46 914 793
Total	9 340 296 571	9 655 023 102	9 902 726 350	10 088 687 123	10 375 587 184
	1989	1990	1991	1992	1993
Developed C.	3 358 210 104	3 402 586 981	3 591 045 523	3 556 846 465	3 501 958 859
Transition C.	0	0	7 001 748	2 288 069 985	2 149 530 444
Developing C.	7 260 771 918	7 193 733 954	6 847 279 662	4 481 066 438	4 623 201 782
Least Developed C.	54 092 966	56 771 656	53 801 298	54 488 926	55 477 799
Total	10 673 074 988	10 653 092 591	10 499 128 231	10 380 471 814	10 330 168 884
	1994	1995	1996	1997	1998
Developed C.	3 640 370 609	3 681 211 162	3 847 295 077	3 892 753 072	3 862 846 970
Transition C.	1 950 189 610	1 968 942 179	1 797 975 284	1 836 038 213	1 780 812 069
Developing C.	4 776 393 965	5 029 554 771	5 173 300 922	5 310 905 210	5 388 965 438
Least Developed C.	63 668 405	73 663 929	77 014 262	79 392 719	81 236 562
Total	10 430 622 589	10 753 372 041	10 895 585 545	11 119 089 214	11 113 861 039

Abbreviations: see Explanation

DATA

	1999	2000	2001	2002	2003
Developed C.	3 849 346 642	3 874 002 571	3 929 434 310	3 911 153 772	3 857 822 891
Transition C.	1 755 024 740	1 815 982 563	1 840 527 448	1 903 357 617	1 931 196 238
Developing C.	5 339 508 083	5 484 217 750	5 588 546 759	5 727 739 973	6 414 302 632
Least Developed C.	91 628 161	98 405 347	108 392 952	121 514 832	124 257 849
Total	11 035 507 626	11 272 608 231	11 466 901 469	11 663 766 194	12 327 579 610
	2004	2005	2006	2007	2008
Developed C.	4 166 119 971	4 145 228 196	4 155 337 991	4 250 937 506	4 297 731 672
Transition C.	1 801 779 688	1 882 311 302	2 015 620 065	2 010 689 746	2 033 667 714
Developing C.	7 035 113 713	7 564 433 269	7 986 336 116	8 328 146 575	8 641 413 296
Least Developed C.	145 142 388	171 588 225	175 872 929	191 850 951	201 156 849
Total	13 148 155 760	13 763 560 992	14 333 167 101	14 781 624 778	15 173 969 531
	2009	2010	2011	2012	2013
Developed C.	4 131 520 030	4 249 562 724	4 266 968 183	4 368 126 376	4 475 748 624
Transition C.	1 927 718 153	2 052 365 337	2 130 857 545	2 149 266 006	2 161 612 867
Developing C.	8 686 850 636	9 334 995 797	9 926 714 491	10 138 953 550	10 275 350 091
Least Developed C.	195 522 184	203 974 188	190 246 123	191 750 737	208 990 229
Total	14 941 611 003	15 840 898 046	16 514 786 342	16 848 096 669	17 121 701 811
	2014	2015	2016	2017	2018
Developed C.	4 705 407 955	4 724 941 576	4 529 995 270		
Transition C.	2 122 619 354	2 117 948 457	2 139 061 209		
Developing C.	10 233 269 166	10 238 039 760	10 018 410 646		
Least Developed C.	214 404 336	205 772 190	212 987 692		
Total	17 275 700 811	17 286 701 983	16 900 454 817		

6.1.4 TOTAL MINERALS PRODUCTION, BY COUNTRY GROUPS AND ECONOMIC BLOCKS

(not including bauxite)
in metr. t

	1984	1985	1986	1987	1988
ACP	140 715 155	151 949 332	154 002 981	152 730 091	160 848 256
ASEAN	160 419 687	167 112 878	176 501 599	179 493 167	189 625 527
BRICS	0	0	0	0	0
EC	667 433 246	724 285 498	778 526 057	765 918 666	741 105 723
EFTA	86 501 629	90 794 412	94 085 678	101 824 013	108 301 907
G7	2 631 518 366	2 690 774 102	2 651 273 959	2 678 923 846	2 727 611 272
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	3 186 380 913	3 293 642 976	3 275 699 138	3 341 731 120	3 364 738 397
SADC	17 935 588	18 448 090	22 266 221	27 368 750	32 221 292

Abbreviations: see Explanation

DATA

	1989	1990	1991	1992	1993
ACP	183 831 295	182 875 536	188 965 487	196 815 127	195 679 419
ASEAN	207 124 244	222 458 445	247 004 434	258 663 394	271 351 229
BRICS	0	0	0	0	0
EC	726 811 158	713 282 690	899 968 409	849 114 893	820 714 347
EFTA	127 328 938	131 079 908	138 476 527	155 206 374	160 887 230
G7	2 705 699 378	2 731 818 890	2 891 244 723	2 836 363 834	2 764 187 244
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	3 419 446 264	3 461 172 715	3 651 663 017	3 624 193 136	3 561 814 008
SADC	32 532 362	34 481 758	34 374 849	36 256 581	33 922 701
	1994	1995	1996	1997	1998
ACP	192 967 736	202 519 023	211 968 008	217 474 659	478 518 962
ASEAN	278 595 335	323 135 285	347 527 171	363 111 792	362 334 122
BRICS	0	0	0	0	0
EC	810 593 047	830 560 077	834 912 254	810 232 656	793 059 034
EFTA	177 909 140	167 198 965	191 230 993	196 755 754	190 974 345
G7	2 872 002 235	2 884 796 037	2 922 915 483	2 939 136 522	3 990 380 023
MERCOSUR	0	237 730 216	241 701 860	258 301 483	276 415 868
NAFTA	2 452 487 140	2 457 811 794	2 518 256 786	2 561 659 462	2 558 956 679
OECD	3 917 037 456	4 034 045 346	4 381 854 768	4 436 361 077	4 398 881 648
SADC	257 535 411	277 789 117	281 755 868	299 449 909	303 432 813
	1999	2000	2001	2002	2003
ACP	480 725 739	506 046 215	514 422 629	522 458 037	554 094 738
ASEAN	372 264 381	374 918 429	397 231 468	412 914 775	442 464 916
BRICS	0	0	3 447 415 204	3 691 661 377	4 172 347 257
EC	794 931 050	785 865 674	776 162 756	783 036 653	761 528 739
EFTA	194 749 270	206 691 249	212 922 426	218 397 044	221 357 270
G7	3 951 811 974	3 939 426 509	3 960 241 642	3 971 095 727	3 964 388 487
MERCOSUR	282 684 425	306 218 183	301 870 072	319 330 764	331 962 064
NAFTA	2 521 292 395	2 514 706 977	2 552 241 708	2 517 613 484	2 494 975 840
OECD	4 371 278 734	4 391 096 943	4 445 816 297	4 418 444 942	4 379 533 761
SADC	305 745 608	305 759 012	307 459 506	319 211 196	328 799 788
	2004	2005	2006	2007	2008
ACP	595 508 573	629 719 007	645 618 419	661 487 158	673 611 693
ASEAN	490 006 417	529 796 455	591 575 521	612 397 861	617 294 557
BRICS	4 608 013 538	5 040 532 803	5 431 210 170	5 805 902 864	6 012 989 838
EC	1 042 524 979	1 004 902 595	968 051 186	1 034 121 288	1 007 540 921
EFTA	223 187 755	214 901 567	208 170 789	200 006 268	203 721 928
G7	4 079 782 244	4 100 763 827	4 169 225 743	4 218 939 415	4 219 948 684
MERCOSUR	361 262 574	384 009 875	626 176 582	651 383 031	646 039 251
NAFTA	2 568 377 094	2 565 621 623	2 599 869 784	2 581 321 863	2 599 281 532
OECD	4 489 433 264	4 489 750 404	4 508 102 657	4 505 756 149	4 540 918 810
SADC	341 352 927	365 610 049	366 674 220	384 232 913	403 596 513

Abbreviations: see Explanation

DATA

	2009	2010	2011	2012	2013
ACP	662 533 819	704 514 242	687 409 905	700 689 101	703 565 090
ASEAN	668 283 028	724 967 759	808 066 500	851 890 703	899 333 247
BRICS	6 068 064 649	6 586 084 004	6 998 931 958	7 408 478 632	7 558 036 362
EC	939 943 304	938 121 447	940 241 554	918 830 036	884 450 042
EFTA	200 145 508	193 287 485	182 641 482	187 117 576	179 063 381
G7	4 014 962 522	4 159 079 917	4 257 795 242	4 259 658 603	4 310 529 376
MERCOSUR	593 058 953	635 812 914	650 127 284	651 155 255	631 075 094
NAFTA	2 483 396 666	2 540 481 770	2 616 811 197	2 624 561 336	2 676 742 350
OECD	4 365 288 029	4 545 377 214	4 597 544 942	4 673 011 408	4 791 838 556
SADC	397 321 908	412 363 885	404 778 021	424 238 109	430 139 606
	2014	2015	2016	2017	2018
ACP	716 806 721	722 673 901	688 134 609		
ASEAN	890 053 335	851 722 909	865 415 240		
BRICS	7 515 329 929	7 500 928 008	7 243 278 314		
EC	850 731 589	822 278 535	776 920 979		
EFTA	180 982 164	189 440 700	190 427 843		
G7	2 956 420 720	2 919 401 081	2 722 180 927		
MERCOSUR	642 121 049	659 322 242	670 420 876		
NAFTA	2 825 586 147	2 773 928 921	2 580 109 727		
OECD	5 009 157 020	4 999 974 836	4 798 456 949		
SADC	441 299 798	437 581 636	428 793 244		

6.1.5 TOTAL MINERALS PRODUCTION, BY POLITICAL STABILITY OF PRODUCER COUNTRIES

(not including bauxite)
in metr. t

	1996	1997	1998	1999	2000
Stable	93 917 377	86 406 683	104 322 674	101 225 161	385 675 146
Fair	4 723 621 868	4 743 577 067	4 822 996 756	4 816 784 516	5 309 783 691
Unstable	5 310 378 263	5 471 544 836	5 515 736 445	5 379 278 262	4 797 203 407
Extreme Unstable	767 668 037	817 560 628	670 805 164	738 219 687	779 945 987
Total	10 895 585 545	11 119 089 214	11 113 861 039	11 035 507 626	11 272 608 231
	2001	2002	2003	2004	2005
Stable	355 847 762	348 628 515	19 634 161	47 455 753	244 042 974
Fair	5 249 031 989	4 893 737 394	5 903 946 431	5 168 652 827	5 096 108 755
Unstable	5 045 223 536	5 418 816 392	4 868 206 491	4 976 653 687	6 335 258 027
Extreme Unstable	816 798 182	1 002 583 893	1 535 792 527	2 955 393 493	2 088 151 236
Total	11 466 901 469	11 663 766 194	12 327 579 610	13 148 155 760	13 763 560 992

Abbreviations: see Explanation

DATA

	2006	2007	2008	2009	2010
Stable	237 150 197	24 441 733	209 989 308	218 278 364	212 612 967
Fair	5 383 914 368	5 848 402 720	5 706 832 910	5 198 717 284	5 581 463 095
Unstable	7 846 498 630	8 374 767 121	8 427 564 723	7 568 237 582	7 894 588 313
Extreme Unstable	865 603 906	534 013 204	829 582 590	1 956 377 773	2 152 233 671
Total	14 333 167 101	14 781 624 778	15 173 969 531	14 941 611 003	15 840 898 046
	2011	2012	2013	2014	2015
Stable	195 792 370	205 948 562	198 690 355	36 370 495	457 877 830
Fair	5 416 176 391	5 519 186 741	5 350 926 557	5 960 018 160	5 174 982 033
Unstable	8 865 437 341	9 079 728 302	10 788 657 192	10 668 870 648	10 927 191 518
Extreme Unstable	2 037 380 240	2 043 233 064	783 427 707	610 441 508	726 650 602
Total	16 514 786 342	16 848 096 669	17 121 701 811	17 275 700 811	17 286 701 983
	2016	2017	2018	2019	2020
Stable	27 458 119				
Fair	5 648 607 229				
Unstable	10 484 765 085				
Extreme Unstable	739 624 384				
Total	16 900 454 817				

6.1.6 TOTAL MINERALS PRODUCTION, BY GROUPS OF COMMODITIES

(not including bauxite)
in metr. t

	1984	1985	1986	1987	1988
Iron, Ferro-Alloy Met.	462 722 386	510 106 296	514 569 639	527 795 965	545 149 542
Non-Ferrous Metals	35 078 410	35 275 374	35 128 420	36 706 718	37 763 438
Precious Metals	14 609	15 039	14 972	15 754	16 744
Industrial Minerals	460 033 310	468 020 139	478 279 167	493 256 403	505 109 246
Mineral Fuels	8 382 447 856	8 641 606 254	8 874 734 152	9 030 912 283	9 287 548 214
Total	9 340 296 571	9 655 023 102	9 902 726 350	10 088 687 123	10 375 587 184
	1989	1990	1991	1992	1993
Iron, Ferro-Alloy Met.	563 082 178	553 172 781	554 465 543	518 315 916	527 346 659
Non-Ferrous Metals	39 449 659	39 117 635	39 151 134	39 635 859	39 075 242
Precious Metals	17 189	17 468	17 080	17 575	16 795
Industrial Minerals	508 182 421	495 139 416	473 678 926	465 724 706	453 321 440
Mineral Fuels	9 562 343 541	9 565 645 291	9 431 815 548	9 356 777 758	9 310 408 748
Total	10 673 074 988	10 653 092 591	10 499 128 231	10 380 471 814	10 330 168 884

Abbreviations: see Explanation

DATA

	1994	1995	1996	1997	1998
Iron, Ferro-Alloy Met.	546 479 678	577 005 092	564 394 554	590 463 318	593 415 369
Non-Ferrous Metals	38 779 369	40 448 714	42 658 043	44 221 277	45 968 803
Precious Metals	16 039	16 937	17 383	18 577	19 606
Industrial Minerals	476 197 388	492 906 231	501 227 166	517 912 298	504 533 877
Mineral Fuels	9 369 150 115	9 642 995 067	9 787 288 399	9 966 473 744	9 969 923 384
Total	10 430 622 589	10 753 372 041	10 895 585 545	11 119 089 214	11 113 861 039
	1999	2000	2001	2002	2003
Iron, Ferro-Alloy Met.	582 308 731	622 905 377	592 797 806	636 176 514	667 834 621
Non-Ferrous Metals	48 035 280	49 964 597	50 537 349	51 788 052	54 954 418
Precious Metals	19 887	21 047	21 628	21 762	21 738
Industrial Minerals	532 166 530	538 832 928	537 823 734	544 262 279	591 028 564
Mineral Fuels	9 872 977 198	10 060 884 282	10 285 720 952	10 431 517 587	11 013 740 269
Total	11 035 507 626	11 272 608 231	11 466 901 469	11 663 766 194	12 327 579 610
	2004	2005	2006	2007	2008
Iron, Ferro-Alloy Met.	779 849 813	852 727 930	957 390 084	1 058 974 587	1 114 835 384
Non-Ferrous Metals	57 531 798	60 644 258	63 699 742	68 935 059	71 678 749
Precious Metals	22 623	23 222	22 935	23 449	24 086
Industrial Minerals	634 700 080	658 428 921	682 056 818	693 868 008	700 018 862
Mineral Fuels	11 676 051 446	12 191 736 661	12 629 997 522	12 959 823 675	13 287 412 450
Total	13 148 155 760	13 763 560 992	14 333 167 101	14 781 624 778	15 173 969 531
	2009	2010	2011	2012	2013
Iron, Ferro-Alloy Met.	1 077 920 711	1 274 885 083	1 360 380 647	1 400 502 177	1 516 874 213
Non-Ferrous Metals	68 822 155	74 864 533	78 399 522	85 377 256	90 110 579
Precious Metals	25 415	26 736	26 898	28 175	29 300
Industrial Minerals	675 615 135	714 952 342	740 915 971	752 464 358	777 917 592
Mineral Fuels	13 119 227 587	13 776 169 352	14 335 063 304	14 609 724 703	14 736 770 127
Total	14 941 611 003	15 840 898 046	16 514 786 342	16 848 096 669	17 121 701 811
	2014	2015	2016	2017	2018
Iron, Ferro-Alloy Met.	1 596 304 130	1 588 954 899	1 613 131 920		
Non-Ferrous Metals	92 543 589	96 432 269	97 232 538		
Precious Metals	30 419	31 198	30 902		
Industrial Minerals	793 992 295	794 371 013	789 708 323		
Mineral Fuels	14 792 830 378	14 806 912 604	14 400 351 134		
Total	17 275 700 811	17 286 701 983	16 900 454 817		

Abbreviations: see Explanation

DATA

6.1.7 MINERAL FUELS

6.1.7.1 TOTAL PRODUCTION IN METR. T

	1984	1985	1986	1987	1988
Steam Coal	2 531 783 298	2 655 806 703	2 734 405 444	2 805 747 921	2 873 368 476
Coking Coal	576 027 300	581 408 250	588 041 000	590 868 000	623 305 000
Lignite	1 127 923 583	1 181 136 745	1 211 167 590	1 233 709 296	1 201 614 195
Petroleum Total	2 769 976 076	2 793 542 212	2 886 612 912	2 882 336 278	3 006 733 665
Petroleum Oilsands	8 347 400	10 814 300	13 852 000	14 766 100	16 470 800
Nat. Gas	1 344 319 200	1 397 340 000	1 423 132 000	1 487 688 800	1 553 989 600
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
Total	8 382 447 856	8 641 606 254	8 874 734 152	9 030 912 283	9 287 548 214
	1989	1990	1991	1992	1993
Steam Coal	2 944 982 117	2 963 748 356	2 926 491 414	2 950 052 811	2 882 363 358
Coking Coal	623 030 700	637 817 000	600 582 000	526 682 580	511 671 000
Lignite	1 270 272 539	1 176 180 805	1 090 726 202	1 023 474 878	966 642 090
Petroleum Total	3 086 941 300	3 133 532 712	3 131 061 423	3 170 627 706	3 190 443 671
Petroleum Oilsands	16 630 400	17 121 500	17 367 800	18 145 400	18 718 900
Nat. Gas	1 608 580 000	1 627 651 200	1 657 187 200	1 661 062 400	1 732 895 200
Oil shales	28 468 938	26 655 905	25 718 314	24 835 014	26 355 156
Uranium	67 947	59 313	48 995	42 369	38 273
Total	9 562 343 541	9 565 645 291	9 431 815 548	9 356 777 758	9 310 408 748
	1994	1995	1996	1997	1998
Steam Coal	3 011 733 645	3 147 160 817	3 256 081 430	3 273 736 238	3 224 953 879
Coking Coal	522 755 000	550 969 000	520 902 000	529 871 000	495 690 000
Lignite	928 411 062	911 946 282	889 531 312	890 478 311	867 721 746
Petroleum Total	3 167 449 608	3 225 908 420	3 249 368 583	3 385 027 798	3 466 613 094
Petroleum Oilsands	19 742 000	21 302 400	22 164 200	26 268 900	29 385 500
Nat. Gas	1 716 484 800	1 790 310 400	1 854 398 400	1 870 067 200	1 899 623 200
Oil shales	22 278 784	16 659 899	16 965 358	17 251 305	15 281 589
Uranium	37 216	40 249	41 316	41 892	39 876
Total	9 369 150 115	9 642 995 067	9 787 288 399	9 966 473 744	9 969 923 384
	1999	2000	2001	2002	2003
Steam Coal	3 163 355 066	3 169 315 186	3 335 266 682	3 440 764 979	3 791 308 891
Coking Coal	480 858 000	475 656 000	475 451 000	478 068 000	527 816 120
Lignite	855 128 347	870 017 576	897 982 501	898 865 623	885 472 662
Petroleum Total	3 412 942 676	3 532 542 613	3 530 050 186	3 505 666 760	3 648 992 556
Petroleum Oilsands	31 572 300	41 976 000	47 782 900	60 145 400	63 122 200
Nat. Gas	1 947 354 400	1 999 138 400	2 032 700 800	2 093 370 400	2 143 070 400
Oil shales	13 301 711	14 172 936	14 227 015	14 739 077	17 037 785
Uranium	36 998	41 571	42 768	42 748	41 855
Total	9 872 977 198	10 060 884 282	10 285 720 952	10 431 517 587	11 013 740 269

Abbreviations: see Explanation

DATA

	2004	2005	2006	2007	2008
Steam Coal	4 127 259 882	4 387 272 606	4 664 879 497	4 848 258 117	5 018 794 560
Coking Coal	600 997 201	680 609 428	716 920 531	794 214 709	801 224 094
Lignite	901 410 195	942 592 769	957 057 979	963 998 005	990 430 678
Petroleum Total	3 830 565 508	3 882 749 770	3 908 431 663	3 890 699 960	3 933 478 851
Petroleum Oilsands	79 595 200	77 093 300	85 577 100	90 068 000	90 885 200
Nat. Gas	2 199 744 000	2 281 938 400	2 366 581 600	2 444 098 400	2 525 400 800
Oil shales	16 027 336	16 524 485	16 079 794	18 505 726	18 031 734
Uranium	47 324	49 203	46 458	48 758	51 733
Total	11 676 051 446	12 191 736 661	12 629 997 522	12 959 823 675	13 287 412 450
	2009	2010	2011	2012	2013
Steam Coal	5 155 009 675	5 404 349 427	5 747 767 295	5 839 443 270	5 898 627 393
Coking Coal	824 599 040	943 566 350	1 018 552 520	1 025 682 310	1 084 713 600
Lignite	840 361 466	854 246 916	896 007 386	899 249 867	859 926 763
Petroleum Total	3 826 534 907	3 915 252 144	3 944 966 018	4 051 208 895	4 059 806 482
Petroleum Oilsands	97 409 400	103 139 500	108 659 200	119 578 500	126 441 400
Nat. Gas	2 456 774 400	2 639 886 400	2 708 201 600	2 774 368 800	2 812 249 600
Oil shales	15 888 442	18 805 092	19 505 132	19 701 365	21 375 653
Uranium	59 657	63 023	63 353	70 196	70 636
Total	13 119 227 587	13 776 169 352	14 335 063 304	14 609 724 703	14 736 770 127
	2014	2015	2016	2017	2018
Steam Coal	5 828 445 811	5 683 076 198	5 254 960 869		
Coking Coal	1 116 259 146	1 088 042 710	1 082 786 494		
Lignite	822 605 776	821 188 873	805 861 321		
Petroleum Total	4 139 768 320	4 288 855 444	4 301 808 745		
Petroleum Oilsands	137 647 300	147 877 700	149 401 200		
Nat. Gas	2 863 784 000	2 905 170 400	2 938 083 200		
Oil shales	21 899 496	20 506 638	16 775 646		
Uranium	67 829	72 341	74 859		
Total	14 792 830 378	14 806 912 604	14 400 351 134		

6.1.7.2 TOTAL PRODUCTION IN TONS COAL EQUIVALENTS (CE)

	1984	1985	1986	1987	1988
Steam Coal	1 982 894 501	2 077 713 562	2 139 602 984	2 194 848 911	2 241 199 359
Coking Coal	439 196 733	444 260 398	446 965 700	449 069 830	474 789 400
Lignite	364 113 132	382 268 982	392 492 622	400 601 234	391 353 298
Petroleum Total	3 955 525 841	3 989 178 280	4 122 083 238	4 115 976 206	4 293 615 678
Petroleum Oilsands	11 920 087	15 442 820	19 780 656	21 085 991	23 520 302
Nat. Gas	1 820 208 198	1 891 998 362	1 926 920 730	2 014 330 637	2 104 101 917
Oilshales	9 804 244	9 789 944	9 486 934	9 239 117	8 625 308
Uranium	1 009 123 500	1 027 900 500	1 075 668 000	1 152 541 500	1 170 147 000
Total	9 580 866 149	9 823 110 028	10 113 220 208	10 336 607 435	10 683 831 960

Abbreviations: see Explanation

DATA

	1989	1990	1991	1992	1993
Steam Coal	2 295 865 149	2 313 188 205	2 285 665 515	2 317 101 270	2 258 341 530
Coking Coal	475 654 417	491 605 370	464 616 790	420 803 973	410 597 680
Lignite	412 703 898	383 871 179	354 908 115	353 768 025	332 218 960
Petroleum Total	4 408 152 180	4 474 684 711	4 471 155 710	4 527 656 363	4 555 953 562
Petroleum Oilsands	23 748 211	24 449 502	24 801 218	25 911 631	26 730 589
Nat. Gas	2 178 017 322	2 203 839 726	2 243 831 469	2 249 078 489	2 346 340 102
Oilshales	8 626 089	8 076 740	7 792 650	7 525 008	7 985 612
Uranium	1 121 125 500	978 664 500	808 417 500	699 088 500	631 504 500
Total	10 900 144 555	10 853 930 431	10 636 387 749	10 575 021 628	10 542 941 946
	1994	1995	1996	1997	1998
Steam Coal	2 358 527 694	2 464 135 157	2 546 342 255	2 565 240 806	2 533 530 327
Coking Coal	421 299 300	440 196 910	418 167 490	425 193 580	397 947 170
Lignite	318 242 190	314 323 080	303 378 228	305 732 760	294 276 664
Petroleum Total	4 523 118 039	4 606 597 223	4 640 098 336	4 833 819 696	4 950 323 500
Petroleum Oilsands	28 191 576	30 419 827	31 650 478	37 511 989	41 962 494
Nat. Gas	2 324 120 417	2 424 080 281	2 510 855 436	2 532 070 992	2 572 089 815
Oilshales	6 750 471	5 047 949	5 140 505	5 227 145	4 630 321
Uranium	614 064 000	664 108 500	681 714 000	691 218 000	657 954 000
Total	10 566 122 111	10 918 489 100	11 105 696 250	11 358 502 979	11 410 751 797
	1999	2000	2001	2002	2003
Steam Coal	2 485 342 744	2 486 437 711	2 617 590 178	2 690 645 003	2 940 337 550
Coking Coal	387 617 140	383 208 550	382 573 630	382 252 640	419 362 296
Lignite	291 682 197	295 549 769	305 988 882	304 326 247	299 765 463
Petroleum Total	4 873 682 143	5 044 470 854	5 040 911 669	5 006 092 132	5 210 761 370
Petroleum Oilsands	45 085 244	59 941 728	68 233 981	85 887 631	90 138 502
Nat. Gas	2 636 717 856	2 706 833 390	2 752 276 883	2 834 423 522	2 901 717 319
Oilshales	4 030 418	4 294 399	4 310 786	4 465 941	5 162 449
Uranium	610 467 000	685 921 500	705 672 000	705 342 000	690 607 500
Total	11 289 539 498	11 606 716 173	11 809 324 028	11 927 547 485	12 467 713 947
	2004	2005	2006	2007	2008
Steam Coal	3 192 784 609	3 384 032 805	3 584 539 581	3 714 754 041	3 837 568 974
Coking Coal	473 988 657	533 191 273	557 668 375	618 649 019	624 698 083
Lignite	306 259 870	322 175 859	329 015 793	331 700 250	341 543 808
Petroleum Total	5 470 047 547	5 544 566 674	5 581 240 417	5 555 919 545	5 617 007 795
Petroleum Oilsands	113 661 946	110 089 232	122 204 099	128 617 104	129 784 066
Nat. Gas	2 978 453 377	3 089 744 594	3 204 351 489	3 309 309 235	3 419 392 682
Oilshales	4 856 284	5 006 920	4 872 178	5 607 235	5 463 615
Uranium	780 846 000	811 849 500	766 557 000	804 507 000	853 594 500
Total	13 207 236 344	13 690 567 625	14 028 244 833	14 340 446 325	14 699 269 457

Abbreviations: see Explanation

DATA

	2009	2010	2011	2012	2013
Steam Coal	3 926 521 538	4 098 962 753	4 344 070 103	4 401 879 824	4 439 334 832
Coking Coal	635 657 384	732 783 510	785 922 232	791 664 822	836 675 476
Lignite	282 878 004	290 407 037	304 857 461	304 293 907	290 915 076
Petroleum Total	5 464 291 845	5 590 980 067	5 633 411 472	5 785 126 303	5 797 403 657
Petroleum Oilsands	139 100 623	147 283 206	155 165 338	170 758 098	180 558 319
Nat. Gas	3 326 472 540	3 574 406 186	3 666 904 965	3 756 495 354	3 807 785 960
Oilshales	4 814 199	5 697 943	5 910 055	5 969 514	6 476 823
Uranium	984 340 500	1 039 879 500	1 045 324 500	1 158 234 000	1 165 494 000
Total	14 624 976 010	15 333 116 996	15 786 400 788	16 203 663 724	16 344 085 824
	2014	2015	2016	2017	2018
Steam Coal	4 396 410 313	4 283 342 422	3 955 355 252		
Coking Coal	862 465 094	841 961 584	837 827 219		
Lignite	279 898 476	279 911 085	276 713 701		
Petroleum Total	5 911 589 162	6 124 485 575	6 142 982 884		
Petroleum Oilsands	196 560 344	211 169 356	213 344 914		
Nat. Gas	3 877 563 533	3 933 600 721	3 978 164 655		
Oilshales	6 635 548	6 213 511	5 083 020		
Uranium	1 119 178 500	1 193 626 500	1 235 173 500		
Total	16 453 740 626	16 663 141 398	16 431 300 231		

6.1.8 TOTAL MINERALS PRODUCTION 2016, 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	4 060 859 604	349 544 610	40 948 738	3 950	212 420 400	3 392 941 906
United States	1 937 449 125	26 449 590	3 402 006	1 386	89 354 000	1 818 142 143
Russia	1 541 316 081	56 127 963	4 735 227	1 821	30 597 287	1 443 935 783
Australia	1 237 972 958	534 742 336	3 967 749	1 701	17 410 942	598 333 652
India	969 487 101	127 685 600	3 820 780	463	44 697 372	768 618 254
Saudi Arabia	690 270 073	254 200	954 261	12	11 506 000	674 387 600
Indonesia	563 505 377	2 498 750	1 008 101	204	2 610 800	556 892 800
Brazil	489 629 596	272 909 506	1 318 350	108	18 737 428	157 420 004
Canada	439 969 934	26 893 510	4 253 409	601	28 470 148	380 352 266
Iran	429 027 407	21 821 550	797 658	55	26 033 148	379 609 380
South Africa	316 812 764	55 688 152	833 496	426	2 686 844	257 603 846
Kazakhstan	236 831 301	12 957 211	1 105 637	1 257	4 882 883	213 083 013
United Arab Emirates	236 524 400	0	2 471 000	0	2 200 000	231 853 400
Qatar	227 123 000	0	612 000	0	2 068 000	224 443 000
Iraq	220 109 500	0	0	0	266 000	219 843 500
Germany	217 214 774	74 500	548 156	0	31 462 360	185 129 758
Mexico	202 790 668	7 471 351	1 670 925	5 541	20 866 697	172 776 154
Norway	188 763 893	1 685 231	1 247 335	0	202 386	185 628 941
Kuwait	161 871 900	0	0	0	915 000	160 956 900
Venezuela	159 412 901	5 070 000	145 000	1	1 420 000	152 437 900
Algeria	147 862 110	329 400	310	0	3 153 000	144 379 400
Colombia	144 010 684	359 152	8 493	73	984 766	142 658 200
Poland	142 348 499	770	528 624	1 265	6 234 390	135 583 450

Abbreviations: see Explanation

DATA

Nigeria	129 583 436	792	31 343	7	62 139	129 489 155
Turkey	104 157 930	5 454 220	417 800	198	35 020 028	62 276 528
Malaysia	99 083 232	1 493 418	624 723	3	611 324	89 653 764
Ukraine	96 853 537	41 071 900	11	0	5 836 441	49 945 185
United Kingdom	92 869 876	732	46 144	0	7 487 500	85 335 500
Angola	89 520 302	0	0	0	93 002	89 427 300
Oman	87 126 385	190 430	386 395	0	8 093 560	78 456 000
Thailand	75 870 491	4 419	35 220	40	14 768 941	61 061 871
Egypt	73 041 217	770 000	314 600	17	4 665 600	67 291 000
Turkmenistan	72 412 150	0	0	0	510 000	71 902 150
Vietnam	70 638 927	1 983 677	44 052	0	2 766 198	64 245 000
Argentina	60 943 638	107 759	573 341	989	4 139 389	56 122 160
Uzbekistan	57 835 731	700	112 301	160	576 680	57 145 890
Azerbaijan	56 348 495	10 710	38 747	7	274 231	56 024 800
Czech Republic	49 375 351	0	0	0	4 404 000	44 971 351
Pakistan	48 317 342	191 950	23 053	0	6 483 215	41 562 100
Netherlands	45 906 538	0	36 920	0	6 625 418	39 244 200
Korea, North	40 067 540	600 490	121 000	50	900 000	38 446 000
Serbia	39 137 674	0	41 793	12	164 149	38 931 720
Mongolia	38 694 610	3 410 724	429 105	103	249 378	34 605 300
Greece	38 260 645	22 030	211 829	30	3 323 580	32 855 476
Romania	38 014 945	1 550	282 517	19	3 054 000	34 676 859
Peru	33 975 347	5 236 677	4 024 522	4 527	6 498 285	18 211 336
Bulgaria	33 600 718	12 050	152 945	23	4 049 000	29 386 700
Chile	31 279 121	9 064 520	5 627 845	1 547	12 904 958	3 680 251
Guinea	31 117 161	0	0	30	0	0
Trinidad and Tobago	31 094 400	0	0	0	0	31 094 400
Libya	28 370 400	0	0	0	255 000	28 115 400
Ecuador	27 956 639	0	3 015	8	152 616	27 801 000
Bangladesh	25 182 278	0	0	0	1 555 000	23 627 278
Bolivia	19 992 126	1 109	605 393	1 366	205 558	19 178 700
Philippines	18 988 709	359 873	83 739	57	2 446 940	16 098 100
Sweden	17 775 945	17 216 000	537 440	505	22 000	0
Spain	17 280 337	688	623 749	28	15 462 768	1 193 104
Myanmar	16 867 838	141 170	196 290	1	562 977	15 967 400
Bosnia-Herzegovina	16 646 408	894 420	123 299	0	1 409 068	13 481 012
Estonia	15 857 700	0	0	0	0	15 857 700
Bahrain	15 677 250	0	971 420	0	123 630	14 582 200
Italy	15 096 525	0	0	0	6 663 525	8 433 000
Brunei	14 893 600	0	0	0	0	14 893 600
Laos	14 212 888	69 040	170 186	58	737 674	13 235 930
Equatorial Guinea	13 944 000	0	0	0	0	13 944 000
Gabon	13 562 501	1 658 500	0	1	0	11 904 000
Israel	11 677 800	0	0	0	3 738 800	7 939 000
France	11 606 175	0	424 640	0	10 261 535	850 000
Mozambique	11 564 815	504 248	571 125	0	228 522	10 259 469
Congo, Rep.	11 553 600	0	0	0	0	11 553 600
Hungary	11 520 922	4 840	0	0	45 000	11 454 372
Denmark	11 278 934	0	0	0	786 822	10 492 112
New Zealand	10 900 569	2 027 560	338 556	18	162 350	8 372 085
Morocco	10 340 182	41 761	109 642	269	10 114 860	73 650
Belarus	10 297 100	0	0	0	8 480 100	1 817 000
Mauritania	8 972 625	8 624 200	32 818	7	80 000	235 600
Kosovo	8 816 858	4 310	11 700	0	0	8 800 848
Jamaica	8 605 485	0	0	0	65 354	0
Japan	8 144 518	0	3 507	11	5 443 800	2 697 200
Ghana	7 171 208	706 390	33 010	132	250 000	5 038 000
Tunisia	7 092 000	159 500	0	0	2 852 400	4 080 100

Abbreviations: see Explanation

DATA

Korea, South	6 241 313	358 624	9 812	7	4 021 024	1 851 846
South Sudan	5 840 050	0	0	0	0	5 840 050
Papua New Guinea	5 559 398	69 421	80 022	155	0	5 409 800
Chad	5 478 000	0	0	0	0	5 478 000
Macedonia	5 391 889	0	64 932	15	225 184	5 101 758
Sierra Leone	5 340 511	3 970 980	0	0	1 000	0
Austria	5 152 898	889 677	0	0	2 451 463	1 811 758
Cameroon	4 948 601	0	65 300	1	0	4 883 300
Sudan	4 394 450	5 770	0	94	160 186	4 228 400
Syria	4 263 250	0	0	0	170 000	4 093 250
Cote d'Ivoire	4 113 272	93 150	0	22	0	4 020 100
Jordan	4 105 445	0	0	0	4 012 245	93 200
Cuba	3 871 183	54 694	0	0	328 689	3 487 800
Slovenia	3 439 432	0	84 365	0	2 599	3 352 468
Slovakia	3 165 866	0	174 043	0	951 423	2 040 400
Kyrgyzstan	2 964 032	0	10 100	32	264 900	2 689 000
Zimbabwe	2 894 492	146 372	11 131	51	34 938	2 702 000
Ireland	2 617 401	0	167 400	1	250 000	2 200 000
Botswana	2 301 060	17 159	13 120	1	399 841	1 870 939
Croatia	2 300 210	0	0	0	262 430	2 028 000
Congo, D.R.	2 194 586	70 759	1 054 822	32	3	1 068 970
Finland	2 123 732	492 102	93 458	27	1 538 145	0
Montenegro	2 113 874	0	49 115	0	0	1 397 500
Afghanistan	1 948 128	2 000	0	0	115 928	1 830 200
Tajikistan	1 722 755	0	289 650	8	43 988	1 389 109
Yemen	1 657 000	0	0	0	150 000	1 507 000
Albania	1 611 030	320 600	0	0	147 500	1 142 930
Guyana	1 479 112	0	0	22	0	0
Senegal	1 463 593	241 120	0	8	1 202 345	20 120
Zambia	1 295 827	32 482	774 290	5	363 000	126 050
Niger	1 071 033	0	0	1	0	1 071 032
Namibia	1 008 465	10 730	157 881	7	835 539	4 308
Portugal	868 564	685	150 003	39	717 837	0
Iceland	866 950	0	861 950	0	5 000	0
Liberia	843 105	843 100	0	5	0	0
Suriname	815 713	0	0	13	0	815 700
Cyprus	800 962	0	1 754	0	799 208	0
Switzerland	797 000	0	0	0	797 000	0
Guatemala	726 183	45 110	25 025	842	207 106	448 100
Tanzania	685 169	0	7 304	64	399 100	278 701
Dominican Republic	684 051	12 410	13 521	160	376 000	0
Taiwan	540 260	0	0	0	276 260	264 000
Bhutan	455 601	17 960	0	0	319 858	117 783
Kenya	453 200	339 480	0	0	113 720	0
Georgia	401 204	48 400	12 100	4	0	340 700
Ethiopia	372 637	129	0	8	372 500	0
Madagascar	313 359	211 878	0	1	101 480	0
Bahamas	308 007	0	0	0	308 007	0
Togo	306 614	0	0	14	306 600	0
Armenia	281 858	5 771	100 042	17	176 028	0
Sri Lanka	248 890	11 730	0	0	237 160	0
Solomon Islands	234 500	0	0	0	0	0
Latvia	224 000	0	0	0	224 000	0
New Caledonia	209 927	209 927	0	0	0	0
Moldova	204 400	0	0	0	204 400	0
Swaziland	158 418	0	0	0	0	158 418
Lithuania	158 020	0	0	0	94 520	63 500
Cambodia	148 900	0	0	0	148 900	0

Abbreviations: see Explanation

DATA

Christmas Island	148 120	0	0	0	148 120	0
Lebanon	125 000	0	0	0	125 000	0
Nicaragua	112 978	0	0	29	112 949	0
El Salvador	100 000	0	0	0	100 000	0
Eritrea	95 413	0	66 200	13	29 200	0
Honduras	82 521	0	18 500	21	64 000	0
Burkina Faso	79 879	0	79 840	39	0	0
Fiji	58 051	0	0	1	0	0
Uganda	50 591	1 325	62	0	49 204	0
Barbados	50 000	0	0	0	0	50 000
Malawi	45 438	0	0	0	2 100	43 338
Nauru	39 800	0	0	0	39 800	0
Panama	23 470	0	0	0	23 470	0
Costa Rica	20 501	0	0	1	20 500	0
Paraguay	10 500	0	0	0	10 500	0
Uruguay	8 441	1 040	0	1	7 400	0
Malta	5 000	0	0	0	5 000	0
Nepal	4 760	0	0	0	1 860	2 900
Rwanda	4 062	1 500	2 560	2	0	0
Benin	4 000	0	0	0	4 000	0
Belgium	1 200	0	1 200	0	0	0
Cape Verde	1 000	0	0	0	1 000	0
Burundi	142	96	46	0	0	0
Mali	50	0	0	50	0	0
French Guiana	2	0	0	2	0	0
Total	17 185 388 623	1 613 131 920	97 232 538	30 902	789 708 323	14 400 351 134

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	454 490	30 010	77 514	20 162	21 096	303 368
United States	314 802	2 355	10 640	9 951	7 567	284 285
Russia	296 387	7 163	10 094	13 798	7 409	257 710
Saudi Arabia	199 947	15	1 701	284	565	197 268
Australia	118 291	38 579	10 323	12 155	1 678	52 550
Canada	111 526	4 612	9 295	7 583	8 512	81 524
India	95 203	21 837	6 631	318	4 035	61 493
Iran	94 045	2 593	2 312	210	1 546	87 356
South Africa	92 319	61 016	1 579	11 894	625	17 205
Brazil	77 602	22 813	3 618	3 351	2 199	44 208
Iraq	70 183	0	0	0	22	70 161
United Arab Emirates	67 897	0	3 963	0	84	63 850
Kazakhstan	61 507	16 084	3 497	3 657	690	37 406
Mexico	60 399	981	5 582	8 305	1 385	44 147
Indonesia	59 565	1 835	4 929	3 725	259	48 799
Kuwait	48 653	0	0	0	38	48 615
Venezuela	43 470	299	233	32	88	42 806
Qatar	42 577	0	982	0	79	41 517
Norway	41 927	260	2 001	0	13	39 653
Chile	33 763	1 332	27 402	2 690	1 999	340
Nigeria	33 467	9	117	281	7	33 053
Algeria	30 465	19	1	4	116	30 325
Peru	28 497	678	15 178	8 563	660	3 419
Angola	28 305	0	0	0	8	28 297

Abbreviations: see Explanation

DATA

Colombia	24 163	375	41	2 520	56	21 170
Oman	21 304	1 402	620	0	95	19 187
United Kingdom	20 284	14	76	0	902	19 292
Malaysia	18 928	679	1 072	87	69	16 780
Egypt	16 184	54	505	689	395	14 541
Argentina	16 081	13	1 280	2 804	428	11 555
Turkey	15 889	8 352	1 121	1 062	3 013	2 305
Azerbaijan	14 963	1	69	85	11	14 798
Uzbekistan	11 498	10	514	4 054	127	6 792
Germany	10 825	4	894	0	4 261	5 665
Poland	10 703	7	2 287	715	448	7 245
Turkmenistan	10 661	0	0	0	25	10 636
Vietnam	10 007	342	249	0	360	8 999
Ecuador	9 106	0	15	272	11	8 808
Ukraine	9 046	3 514	8	0	602	4 923
Congo, D.R.	8 708	1 948	5 185	1 234	0	342
Thailand	8 591	9	75	192	361	7 954
Ghana	8 120	1 312	53	5 169	22	1 524
Libya	7 317	0	0	0	7	7 310
Gabon	6 842	3 080	0	41	0	3 721
Philippines	6 374	3 461	409	931	158	1 416
Mongolia	6 249	252	1 936	788	68	3 205
Pakistan	6 069	216	87	0	428	5 335
Bolivia	5 544	21	1 558	1 261	103	2 601
Netherlands	5 258	0	59	0	576	4 622
Sudan	5 141	21	0	3 756	10	1 353
Belarus	4 948	0	0	0	4 403	545
Papua New Guinea	4 738	606	390	2 533	0	1 208
Finland	4 644	3 754	329	421	140	0
Myanmar	4 518	459	2 117	50	22	1 870
Equatorial Guinea	4 462	0	0	0	0	4 462
Trinidad and Tobago	4 196	0	0	0	0	4 196
Zambia	4 159	183	3 769	185	14	8
Congo, Rep.	3 701	0	0	4	0	3 697
Bahrain	3 688	0	1 558	0	5	2 125
Romania	3 311	3	481	30	197	2 600
Zimbabwe	3 070	1 136	59	1 664	15	195
Brunei	2 892	0	0	0	0	2 892
Korea, North	2 882	43	300	28	117	2 395
Spain	2 878	13	1 635	67	1 066	98
Bangladesh	2 829	0	0	0	135	2 694
Sweden	2 821	1 016	1 269	535	2	0
Albania	2 746	2 398	0	0	2	346
Denmark	2 702	0	0	0	90	2 612
Israel	2 460	0	0	0	1 580	880
Mozambique	2 381	342	916	8	81	1 034
Guinea	2 338	0	0	1 217	0	0
New Zealand	2 248	120	543	401	19	1 165
Italy	2 221	0	0	0	505	1 716
New Caledonia	2 111	2 111	0	0	0	0
Czech Republic	2 064	0	0	0	633	1 431
Bulgaria	1 994	22	625	327	361	659
Tanzania	1 925	0	37	1 851	18	18
Mali	1 889	0	0	1 889	0	0
Cote d'Ivoire	1 887	173	0	829	0	886
South Sudan	1 869	0	0	0	0	1 869
Dominican Republic	1 790	119	56	1 600	5	0
France	1 760	0	681	0	811	265

Abbreviations: see Explanation

DATA

Chad	1 753	0	0	0	0	1 753
Burkina Faso	1 716	0	166	1 549	0	0
Morocco	1 708	119	303	162	1 115	9
Greece	1 678	211	352	54	219	775
Cameroon	1 647	0	105	40	0	1 502
Laos	1 585	4	838	300	145	297
Cuba	1 528	587	0	0	23	918
Serbia	1 415	0	183	39	22	1 171
Iceland	1 383	0	1 383	0	0	0
Guatemala	1 174	355	50	619	7	143
Tunisia	1 163	9	0	0	223	930
Jordan	1 136	0	0	0	1 126	10
Estonia	1 110	0	0	0	0	1 110
Mauritania	1 031	509	160	287	1	75
Japan	1 031	0	30	262	336	403
Kyrgyzstan	991	0	53	791	33	114
Namibia	981	10	371	284	73	244
Tajikistan	967	0	661	204	3	98
Guyana	945	0	0	891	0	0
Madagascar	927	877	0	24	27	0
Suriname	781	0	0	520	0	261
Bosnia-Herzegovina	718	55	204	0	136	297
Armenia	704	83	473	128	19	0
Syria	698	0	0	0	13	685
Portugal	616	13	526	21	56	0
Hungary	614	9	0	0	4	600
Senegal	613	165	0	271	174	3
Austria	606	71	0	0	165	370
Togo	597	0	0	563	34	0
Ireland	592	0	345	1	2	244
Korea, South	567	77	17	12	333	128
Niger	551	0	0	40	0	511
Botswana	425	169	64	33	35	123
Slovakia	422	0	279	19	69	54
Sierra Leone	387	330	0	8	1	0
Croatia	379	0	0	0	11	368
Nicaragua	351	0	0	346	5	0
Georgia	327	90	59	146	0	33
Ethiopia	317	13	0	274	30	0
Jamaica	309	0	0	0	2	0
Macedonia	304	0	154	34	3	112
Yemen	297	0	0	0	5	292
Kenya	288	227	0	8	53	0
Kosovo	258	41	23	0	0	194
Liberia	239	50	0	189	0	0
Eritrea	232	0	209	21	2	0
Slovenia	210	0	135	0	0	74
Rwanda	185	60	46	80	0	0
Honduras	158	0	38	115	5	0
Afghanistan	148	15	0	0	6	127
Montenegro	138	0	83	0	0	31
French Guiana	64	0	0	64	0	0
Fiji	63	0	0	61	0	0
Costa Rica	46	0	0	40	6	0
Taiwan	45	0	0	0	15	31
Switzerland	44	0	0	0	44	0
Uruguay	41	0	0	40	1	0
Sri Lanka	35	8	0	0	27	0

Abbreviations: see Explanation

DATA

Bahamas	27	0	0	0	27	0
Lithuania	24	0	0	0	4	20
Cyprus	23	0	9	0	14	0
Burundi	20	3	1	16	0	0
Christmas Island	17	0	0	0	17	0
Cambodia	13	0	0	0	13	0
Barbados	13	0	0	0	0	13
Bhutan	12	1	0	0	3	8
Uganda	11	1	1	0	9	0
Swaziland	10	0	0	0	0	10
El Salvador	9	0	0	0	9	0
Solomon Islands	8	0	0	0	0	0
Nauru	4	0	0	0	4	0
Belgium	4	0	4	0	0	0
Malawi	3	0	0	0	0	3
Lebanon	2	0	0	0	2	0
Panama	2	0	0	0	2	0
Latvia	2	0	0	0	2	0
Moldova	2	0	0	0	2	0
Benin	2	0	0	1	0	0
Central African Republic	1	0	0	1	0	0
Paraguay	1	0	0	0	1	0
Nepal	1	0	0	0	0	0
Total	2 932 710	254 235	237 796	154 823	88 155	2 187 444

Abbreviations: see Explanation

6.2 WORLD PRODUCTION OF MINERAL RAW MATERIALS, BY MINERAL RAW MATERIALS

6.2.1 IRON AND FERRO-ALLOY METALS

Commodity	2012	2013	2014	2015	2016	Change 12/16 in %
	in metr. t					
Iron	1 361 404 901	1 474 380 927	1 553 444 901	1 548 956 399	1 575 123 716	15.70
Chromium	11 997 236	13 219 415	13 190 374	13 542 330	13 092 060	9.13
Cobalt	135 457	132 520	132 401	141 237	126 234	-6.81
Manganese	16 878 522	18 816 087	19 599 190	16 815 404	15 414 509	-8.67
Molybdenum	272 005	281 217	305 793	287 212	279 309	2.69
Nickel	2 356 041	2 604 841	2 175 030	2 115 971	1 953 503	-17.09
Niobium	87 906	83 002	95 956	91 241	91 827	4.46
Tantalum	1 193	1 316	1 447	1 602	1 694	41.99
Titanium	7 214 749	7 186 187	7 191 245	6 832 330	6 877 550	-4.67
Tungsten	81 178	86 103	84 254	88 712	85 789	5.68
Vanadium	72 989	82 598	83 539	82 461	85 729	17.45

6.2.2 NON-FERROUS METALS

Commodity	2012	2013	2014	2015	2016	Change 12/16 in %
	in metr. t					
Aluminium	49 403 677	52 220 190	54 176 420	57 911 147	58 804 268	19.03
Antimony	174 756	163 178	162 466	149 676	159 665	-8.64
Arsenic	42 009	38 743	36 550	37 260	35 665	-15.10
Bauxite	258 939 615	300 583 212	260 844 562	296 732 536	284 933 806	10.04
Bismuth	7 425	9 488	11 851	11 690	10 410	40.20
Cadmium	22 682	22 338	24 005	23 270	26 011	14.68
Copper	16 764 481	18 271 968	18 644 945	19 403 679	20 417 159	21.79
Gallium	95	193	302	290	194	104.21
Germanium	111	117	124	139	122	9.91
Lead	5 096 612	5 302 171	5 347 172	4 997 513	4 703 327	-7.72
Lithium	72 446	63 633	69 050	68 349	78 549	8.42
Mercury	1 886	2 184	2 834	3 361	4 005	112.35
Rare Earths	103 008	100 845	109 549	123 351	124 735	21.09
Rhenium	44	37	37	45	45	2.27
Selenium	3 416	3 676	3 331	3 255	3 360	-1.64
Tellurium	140	170	168	165	180	28.57
Tin	313 993	347 062	364 451	348 824	340 145	8.33
Zinc	13 370 475	13 564 586	13 590 334	13 350 255	12 524 698	-6.33

6.2.3 PRECIOUS METALS

Commodity	2012	2013	2014	2015	2016	Change 12/16 in %
	in kg					
Gold	2 729 677	2 913 580	3 016 134	3 100 309	3 214 063	17.75
Palladium	195 989	196 501	185 555	204 995	210 579	7.44
Platinum	176 765	187 921	143 114	188 229	185 702	5.06
Rhodium	22 184	22 333	17 218	22 964	23 806	7.31
Silver	25 049 132	25 980 974	27 062 560	27 677 720	27 268 729	8.86

6.2.4 INDUSTRIAL MINERALS

Commodity	2012	2013	2014	2015	2016	Change 12/16 in %
	in metr. t (Diamonds in carats)					
Asbestos	1 966 188	1 765 774	1 657 395	1 387 490	1 287 075	-34.54
Baryte	10 663 788	9 970 439	9 463 162	9 397 477	9 130 580	-14.38
Bentonite	16 974 299	16 123 673	16 867 442	18 303 887	16 045 460	-5.47
Boron	4 796 956	4 693 119	4 527 471	4 875 747	4 310 367	-10.14
Diam. (Gem)	71 664 878	75 201 679	75 739 376	76 408 876	75 696 423	5.63
Diam. (Ind)	56 613 102	56 090 912	50 613 250	51 409 484	50 310 371	-11.13
Diatomite	2 099 984	2 162 111	2 322 987	2 137 765	1 937 953	-7.72
Feldspar	29 978 600	35 238 822	29 770 654	30 513 098	29 864 015	-0.38
Fluorspar	6 814 610	6 408 954	6 769 132	5 789 960	6 008 620	-11.83
Graphite	1 194 930	1 125 588	1 104 711	1 120 889	1 126 001	-5.77
Gypsum	157 858 369	166 404 699	166 468 806	164 136 904	174 640 361	10.63
Kaolin	37 241 552	38 411 650	38 479 540	38 585 117	38 985 409	4.68
Magnesite	24 698 760	25 950 353	27 154 158	26 876 462	26 010 251	5.31
Perlite	2 437 508	2 749 515	2 688 467	2 518 356	2 746 374	12.67
Phosphates	67 252 173	74 377 426	75 311 897	82 670 237	83 983 506	24.88
Potash	32 949 125	34 745 385	39 422 053	40 738 327	39 667 921	20.39
Salt	280 329 274	280 330 514	291 015 043	286 270 783	276 665 200	-1.31
Sulfur	65 471 067	67 676 657	70 798 276	69 392 392	67 980 096	3.83
Talc	7 737 826	8 280 834	8 153 598	7 664 397	7 490 665	-3.19
Vermiculite	498 032	423 562	430 661	445 784	445 097	-10.63
Zircon	1 501 292	1 078 492	1 586 818	1 545 916	1 383 349	-7.86

6.2.5 MINERAL FUELS

Commodity	2012	2013	2014	2015	2016	Change 12/16 in %
	in metr. t (Nat.Gas in Mio m ³)					
Steam Coal	5 839 443 270	5 898 627 393	5 828 445 811	5 683 076 198	5 254 960 869	-10.01
Coking Coal	1 025 682 310	1 084 713 600	1 116 259 146	1 088 042 710	1 082 786 494	5.57
Hard Coal (Tot)	6 865 125 580	6 983 340 993	6 944 704 957	6 771 118 908	6 337 747 363	-7.68
Lignite	899 249 867	859 926 763	822 605 776	821 188 873	805 861 321	-10.39
Coal (Tot)	7 764 375 447	7 843 267 756	7 767 310 733	7 592 307 781	7 143 608 684	-8.00
Petroleum	4 051 208 895	4 059 806 482	4 139 768 320	4 288 855 444	4 301 808 745	6.19
Nat. Gas	3 467 961	3 515 312	3 579 730	3 631 463	3 672 604	5.90
Oilsands*	119 578 500	126 441 400	137 647 300	147 877 700	149 401 200	24.94
Oil shales	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646	-14.85
Uranium	70 196	70 636	67 829	72 341	74 859	6.64

* 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)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	401 433 917	458 960 342	542 318 940	579 184 582	604 983 033
Developing C.	830 186 115	878 481 808	871 159 786	847 188 217	849 443 393
Least Developed C.	11 636 253	17 832 219	22 595 725	11 958 030	13 369 990
Transition C.	118 148 616	119 106 558	117 370 450	110 625 570	107 327 300
Total	1 361 404 901	1 474 380 927	1 553 444 901	1 548 956 399	1 575 123 716
Annual per capita income:					
High Income	468 783 367	524 787 950	616 118 930	588 866 031	614 513 956
Upper Middle Inc.	729 943 791	764 884 788	779 953 476	793 395 368	772 839 600
Lower Middle Inc.	156 978 460	175 102 110	143 171 310	161 870 770	182 511 370
Low Income	5 699 283	9 606 079	14 201 185	4 824 230	5 258 790
Total	1 361 404 901	1 474 380 927	1 553 444 901	1 548 956 399	1 575 123 716
Political stability:					
Stable	4 263 722	4 755 613	2 662 046	30 046 460	2 027 560
Fair	670 991 105	477 080 807	578 202 064	565 276 001	629 528 446
Unstable	570 302 664	991 495 037	928 117 701	905 173 848	898 039 590
Extreme Unst.	115 847 410	1 049 470	44 463 090	48 460 090	45 528 120
Total	1 361 404 901	1 474 380 927	1 553 444 901	1 548 956 399	1 575 123 716
Country groups and economic blocks:					
ACP	55 716 753	64 570 539	74 717 885	59 135 810	56 485 680
ASEAN	15 110 640	22 872 570	11 951 200	4 956 620	5 429 180
BRICS	804 081 070	842 072 500	841 840 620	830 554 700	840 715 860
CPE	360 492 560	397 501 450	412 719 880	377 147 940	351 740 880
EC	17 718 112	18 265 763	18 882 476	16 849 285	18 179 223
EFTA	2 189 200	2 181 300	2 466 600	2 252 200	1 425 000
G7	115 432 090	115 082 300	61 745 300	57 309 000	52 350 400
MERCOSUR	268 483 670	253 254 768	252 312 390	261 493 580	276 454 220
NAFTA	67 134 665	70 226 140	71 655 150	65 314 260	59 529 710
OECD	423 497 932	484 989 412	569 390 490	601 410 971	625 866 226
SACD	44 131 430	47 198 370	52 795 200	47 326 280	43 201 990

CHROMIUM (CR₂O₃ - CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	368 076	528 200	451 819	457 100	469 140
Developing C.	9 299 160	10 231 175	9 977 165	10 484 960	10 094 170
Least Developed C.	56 400	74 740	92 390	107 770	43 050
Transition C.	2 273 600	2 385 300	2 669 000	2 492 500	2 485 700
Total	11 997 236	13 219 415	13 190 374	13 542 330	13 092 060
Annual per capita income:					
High Income	796 596	992 400	966 499	636 780	656 620
Upper Middle Inc.	9 565 535	10 557 671	10 853 975	11 270 930	10 466 340
Lower Middle Inc.	1 403 671	1 449 610	1 123 160	1 440 370	1 799 680
Low Income	231 434	219 734	246 740	194 250	169 420
Total	11 997 236	13 219 415	13 190 374	13 542 330	13 092 060
Political stability:					
Stable	229 000	434 000	441 300	0	0
Fair	545 525	640 900	2 764 799	920 880	2 962 320
Unstable	9 643 921	12 072 615	9 918 405	11 106 650	9 017 830
Extreme Unst.	1 578 790	71 900	65 870	1 514 800	1 111 910
Total	11 997 236	13 219 415	13 190 374	13 542 330	13 092 060
Country groups and economic blocks:					
ACP	5 220 974	6 296 004	6 493 150	7 132 510	6 685 580
ASEAN	15 481	14 910	20 420	6 200	10 300
BRICS	6 733 125	7 734 571	7 645 322	8 728 490	8 643 310
CPE	59 830	51 200	16 000	17 600	12 200
EC	229 576	434 000	441 300	457 100	469 140
EFTA	0	0	0	0	0
G7	206 600	147 200	0	0	0
MERCOSUR	184 275	189 521	244 622	265 200	265 000
NAFTA	0	0	0	0	0
OECD	2 451 976	2 394 100	2 258 419	1 921 430	1 539 170
SACD	5 163 464	6 183 264	6 421 140	7 080 240	6 638 730

COBALT

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	13 937	16 084	15 050	15 713	15 150
Developing C.	26 191	29 296	30 791	32 125	31 310
Least Developed C.	93 143	84 772	84 258	91 299	77 674
Transition C.	2 186	2 368	2 302	2 100	2 100
Total	135 457	132 520	132 401	141 237	126 234

DATA

Annual per capita income:

High Income	18 754	21 532	21 392	20 213	20 870
Upper Middle Inc.	15 709	16 680	18 222	20 376	18 529
Lower Middle Inc.	13 092	14 875	12 733	11 973	13 734
Low Income	87 902	79 433	80 054	88 675	73 101
Total	135 457	132 520	132 401	141 237	126 234

Political stability:

Stable	1 381	2 061	2 104	6 904	0
Fair	25 101	23 248	20 914	16 115	24 241
Unstable	22 542	30 618	32 908	33 818	28 955
Extreme Unst.	86 433	76 593	76 475	84 400	73 038
Total	135 457	132 520	132 401	141 237	126 234

Country groups and economic blocks:

ACP	98 900	90 965	91 488	99 571	85 346
ASEAN	5 869	6 826	4 646	4 767	4 484
BRICS	13 908	15 481	17 118	16 326	14 554
CPE	11 290	11 899	13 052	14 104	14 328
EC	1 381	2 061	2 104	2 119	2 308
EFTA	0	0	0	0	0
G7	8 862	9 536	6 694	7 664	7 659
MERCOSUR	3 122	3 239	3 865	2 771	853
NAFTA	6 676	7 168	6 694	7 664	7 659
OECD	13 937	16 084	15 050	15 713	15 150
SACD	93 361	84 112	86 144	93 332	79 465

MANGANESE

2012	2013	2014	2015	2016
metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	2 918 120	3 015 088	3 498 790	3 283 300	2 406 940
Developing C.	12 669 532	14 474 479	14 780 904	12 539 344	11 992 949
Least Developed C.	138 770	180 890	128 920	48 560	150 420
Transition C.	1 152 100	1 145 630	1 190 576	944 200	864 200
Total	16 878 522	18 816 087	19 599 190	16 815 404	15 414 509

Annual per capita income:

High Income	2 905 548	2 993 528	3 477 460	3 269 580	2 396 290
Upper Middle Inc.	11 744 064	13 259 429	13 815 240	11 533 064	10 634 439
Lower Middle Inc.	2 114 410	2 405 530	2 306 490	2 009 760	2 380 780
Low Income	114 500	157 600	0	3 000	3 000
Total	16 878 522	18 816 087	19 599 190	16 815 404	15 414 509

Political stability:

Stable	0	0	0	0	0
Fair	6 309 300	6 355 768	6 362 280	5 572 700	3 121 940
Unstable	9 545 306	12 439 645	12 651 110	10 641 044	11 775 749
Extreme Unst.	1 023 916	20 674	585 800	601 660	516 820
Total	16 878 522	18 816 087	19 599 190	16 815 404	15 414 509

Abbreviations: see Explanation

Country groups and economic blocks:

ACP	6 258 600	7 669 320	8 755 390	7 427 960	7 252 070
ASEAN	667 012	758 134	558 390	357 260	504 190
BRICS	9 443 910	10 622 690	11 366 760	9 287 998	8 844 394
CPE	3 526 800	3 781 600	3 360 000	2 534 000	2 179 000
EC	26 452	39 410	44 360	33 000	18 440
EFTA	0	0	0	0	0
G7	4 500	5 000	0	0	0
MERCOSUR	1 164 000	1 180 000	1 094 000	1 226 458	1 141 684
NAFTA	188 294	211 559	235 686	217 466	205 645
OECD	3 138 212	3 265 407	3 756 266	3 513 596	2 615 385
SACD	4 016 970	4 900 900	6 236 550	4 869 950	4 787 110

MOLYBDENUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	69 340	68 964	77 588	49 906	38 636
Developing C.	191 654	202 435	218 845	227 935	229 141
Least Developed C.	0	0	0	0	0
Transition C.	11 011	9 818	9 360	9 371	11 532
Total	272 005	281 217	305 793	287 212	279 309

Annual per capita income:

High Income	109 689	111 737	130 916	102 743	94 283
Upper Middle Inc.	154 229	161 178	168 381	175 841	175 763
Lower Middle Inc.	7 717	8 032	6 246	8 258	8 823
Low Income	370	270	250	370	440
Total	272 005	281 217	305 793	287 212	279 309

Political stability:

Stable	4	8	0	2 505	0
Fair	113 621	117 581	129 801	103 664	99 135
Unstable	154 864	163 628	175 992	179 708	180 174
Extreme Unst.	3 516	0	0	1 335	0
Total	272 005	281 217	305 793	287 212	279 309

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	125 418	128 075	134 614	138 390	132 350
CPE	122 854	126 559	133 749	138 077	132 022
EC	0	0	0	0	0
EFTA	4	8	2	1	1
G7	74 174	72 561	77 558	49 905	38 635
MERCOSUR	1 617	1 915	954	869	479
NAFTA	80 702	81 518	91 928	61 232	50 531
OECD	116 217	121 314	141 218	115 405	106 179
SACD	0	0	0	0	0

NICKEL

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	558 872	567 346	549 791	525 737	506 626
Developing C.	1 503 843	1 709 724	1 291 123	1 243 649	1 149 143
Least Developed C.	13 254	33 008	58 046	71 475	67 024
Transition C.	280 072	294 763	276 070	275 110	230 710
Total	2 356 041	2 604 841	2 175 030	2 115 971	1 953 503

Annual per capita income:

High Income	944 665	995 752	992 564	718 936	710 833
Upper Middle Inc.	412 316	386 364	356 616	633 758	577 714
Lower Middle Inc.	977 907	1 176 755	772 171	702 093	605 189
Low Income	21 153	45 970	53 679	61 184	59 767
Total	2 356 041	2 604 841	2 175 030	2 115 971	1 953 503

Political stability:

Stable	19 473	18 860	19 281	234 519	0
Fair	704 026	616 885	579 778	355 714	573 556
Unstable	1 580 947	1 919 776	1 575 971	1 517 098	1 028 934
Extreme Unst.	51 595	49 320	0	8 640	351 013
Total	2 356 041	2 604 841	2 175 030	2 115 971	1 953 503

Country groups and economic blocks:

ACP	164 590	187 650	194 981	212 944	211 283
ASEAN	971 021	1 154 516	686 763	631 361	541 745
BRICS	482 945	485 808	505 656	507 791	446 594
CPE	157 900	147 366	158 354	162 107	145 272
EC	42 620	46 684	50 153	38 491	43 454
EFTA	400	300	290	300	230
G7	465 800	491 743	233 167	261 719	259 807
MERCOSUR	98 400	83 200	89 199	93 009	85 600
NAFTA	211 700	227 743	233 167	261 719	259 807
OECD	562 682	568 426	552 821	534 377	515 966
SACD	71 792	87 018	123 593	134 662	125 639

NIOBIUM (NB₂O₅-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	4 705	4 916	5 774	5 385	6 099
Developing C.	82 259	76 944	88 821	84 248	84 066
Least Developed C.	492	631	780	980	1 034
Transition C.	450	511	581	628	628
Total	87 906	83 002	95 956	91 241	91 827

DATA

Annual per capita income:

High Income	5 155	5 427	6 355	5 385	6 099
Upper Middle Inc.	82 228	76 914	88 791	84 847	84 668
Lower Middle Inc.	31	30	30	29	26
Low Income	492	631	780	980	1 034
Total	87 906	83 002	95 956	91 241	91 827

Political stability:

Stable	0	0	0	5 385	0
Fair	86 952	4 916	5 774	248	6 099
Unstable	636	77 801	89 751	84 852	84 869
Extreme Unst.	318	285	431	756	859
Total	87 906	83 002	95 956	91 241	91 827

Country groups and economic blocks:

ACP	523	661	810	1 009	1 060
ASEAN	0	0	0	0	0
BRICS	82 678	77 425	89 372	84 847	84 668
CPE	14	15	20	30	40
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	5 155	5 427	5 774	5 385	6 099
MERCOSUR	82 214	76 899	88 771	84 189	84 000
NAFTA	4 705	4 916	5 774	5 385	6 099
OECD	4 705	4 916	5 774	5 385	6 099
SACD	226	236	385	699	804

TANTALUM (TA₂O₅-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	0	40	0	20	60
Developing C.	301	353	301	312	297
Least Developed C.	861	891	1 106	1 238	1 288
Transition C.	31	32	40	32	49
Total	1 193	1 316	1 447	1 602	1 694

Annual per capita income:

High Income	31	72	40	20	60
Upper Middle Inc.	210	264	219	271	280
Lower Middle Inc.	91	89	82	73	66
Low Income	861	891	1 106	1 238	1 288
Total	1 193	1 316	1 447	1 602	1 694

Political stability:

Stable	0	0	0	0	0
Fair	302	59	26	409	68
Unstable	399	893	857	291	603
Extreme Unst.	492	364	564	902	1 023
Total	1 193	1 316	1 447	1 602	1 694

Country groups and economic blocks:

ACP	939	966	1 181	1 310	1 354
ASEAN	26	19	26	9	8
BRICS	215	277	233	262	272
CPE	66	60	75	110	120
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	31	72	0	0	0
MERCOSUR	118	185	118	120	103
NAFTA	0	40	0	0	0
OECD	0	40	0	20	60
SACD	389	279	449	764	886

TITANIUM (TIO₂-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	2 935 670	2 458 100	2 290 010	2 190 640	2 085 000
Developing C.	3 044 890	3 238 100	3 442 595	3 154 450	3 266 960
Least Developed C.	776 039	837 887	867 490	908 990	1 025 890
Transition C.	458 150	652 100	591 150	578 250	499 700
Total	7 214 749	7 186 187	7 191 245	6 832 330	6 877 550

Annual per capita income:

High Income	3 225 760	2 763 450	2 602 500	2 302 890	2 176 800
Upper Middle Inc.	2 006 230	2 170 430	2 392 295	2 475 310	2 611 020
Lower Middle Inc.	1 206 720	1 411 230	1 384 910	1 145 140	1 063 840
Low Income	776 039	841 077	811 540	908 990	1 025 890
Total	7 214 749	7 186 187	7 191 245	6 832 330	6 877 550

Political stability:

Stable	365 470	363 500	0	750 000	0
Fair	3 550 590	2 768 880	2 449 900	1 703 490	2 253 630
Unstable	2 876 789	4 053 807	4 091 285	3 998 610	3 939 890
Extreme Unst.	421 900	0	650 060	380 230	684 030
Total	7 214 749	7 186 187	7 191 245	6 832 330	6 877 550

Country groups and economic blocks:

ACP	1 896 339	1 897 277	2 321 400	2 378 740	2 565 370
ASEAN	520 970	547 930	297 560	127 190	55 200
BRICS	2 560 980	2 710 070	2 908 745	2 757 100	2 914 000
CPE	1 308 720	1 553 420	1 408 860	1 190 800	1 248 830
EC	0	0	0	0	0
EFTA	365 470	363 500	380 010	277 340	260 000
G7	1 343 000	1 166 000	913 000	860 000	755 000
MERCOSUR	39 780	44 970	46 445	47 000	48 000
NAFTA	1 164 000	987 000	913 000	860 000	755 000
OECD	3 051 510	2 589 200	2 427 250	2 307 640	2 181 550
SACD	1 441 100	1 456 100	1 877 500	1 678 300	1 831 200

TUNGSTEN (W-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	4 177	4 741	4 936	4 488	3 167
Developing C.	70 913	75 299	73 969	79 322	78 055
Least Developed C.	1 576	1 674	1 491	1 412	1 387
Transition C.	4 512	4 389	3 858	3 490	3 180
Total	81 178	86 103	84 254	88 712	85 789

Annual per capita income:

High Income	8 472	8 932	8 723	4 496	3 181
Upper Middle Inc.	68 340	72 052	69 126	76 141	74 129
Lower Middle Inc.	2 595	3 360	4 944	6 841	7 212
Low Income	1 771	1 759	1 461	1 234	1 267
Total	81 178	86 103	84 254	88 712	85 789

Political stability:

Stable	706	850	819	1 815	0
Fair	4 690	5 800	4 894	8 681	9 034
Unstable	75 481	79 225	78 528	78 150	76 599
Extreme Unst.	301	228	13	66	156
Total	81 178	86 103	84 254	88 712	85 789

Country groups and economic blocks:

ACP	1 376	1 474	1 391	1 162	1 217
ASEAN	1 370	1 990	3 700	4 344	5 240
BRICS	72 262	76 085	71 985	76 000	74 100
CPE	68 912	73 394	72 045	77 212	76 503
EC	1 862	2 029	2 312	2 325	3 059
EFTA	0	0	0	0	0
G7	6 306	6 583	2 147	1 970	732
MERCOSUR	381	494	510	500	400
NAFTA	2 025	2 392	2 147	1 815	0
OECD	4 191	4 741	4 948	4 496	3 181
SACD	101	59	13	55	79

VANADIUM (V₂O₅-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	176	998	0	0	0
Developing C.	56 957	66 197	67 414	65 265	68 843
Least Developed C.	0	0	0	0	0
Transition C.	15 856	15 403	16 125	17 196	16 886
Total	72 989	82 598	83 539	82 461	85 729

DATA

Annual per capita income:

High Income	15 032	15 401	15 125	0	0
Upper Middle Inc.	57 957	67 197	68 414	82 461	85 729
Lower Middle Inc.	0	0	0	0	0
Low Income	0	0	0	0	0

Total	72 989	82 598	83 539	82 461	85 729
-------	--------	--------	--------	--------	--------

Political stability:

Stable	0	0	0	0	0
Fair	176	998	1 000	0	0
Unstable	72 813	81 600	82 539	82 461	85 729
Extreme Unst.	0	0	0	0	0

Total	72 989	82 598	83 539	82 461	85 729
-------	--------	--------	--------	--------	--------

Country groups and economic blocks:

ACP	19 957	21 397	21 582	17 455	15 877
ASEAN	0	0	0	0	0
BRICS	71 813	80 600	82 539	81 461	85 729
CPE	37 000	44 800	44 800	42 000	45 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	14 962	14 994	0	0	0
MERCOSUR	0	0	1 032	5 810	7 966
NAFTA	106	591	0	0	0
OECD	176	998	0	0	0
SACD	19 957	21 397	21 582	17 455	15 877

6.3.2 NON-FERROUS METALS

ALUMINIUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	11 105 417	11 037 164	10 615 087	10 755 087	10 360 000
Developing C.	32 900 812	36 169 524	38 952 937	42 496 495	43 764 913
Least Developed C.	562 000	564 000	566 880	558 390	571 125
Transition C.	4 835 448	4 449 502	4 041 516	4 101 175	4 108 230
Total	49 403 677	52 220 190	54 176 420	57 911 147	58 804 268

Annual per capita income:

High Income	18 549 047	18 415 707	19 285 709	15 667 560	15 397 308
Upper Middle Inc.	27 541 424	30 662 614	31 475 967	38 497 225	39 151 996
Lower Middle Inc.	2 478 700	2 361 500	2 847 864	3 187 972	3 683 839
Low Income	834 506	780 369	566 880	558 390	571 125

Total	49 403 677	52 220 190	54 176 420	57 911 147	58 804 268
-------	------------	------------	------------	------------	------------

Political stability:

Stable	1 437 863	2 334 060	328 269	4 080 343	1 200 506
Fair	14 418 183	12 153 374	14 518 164	10 790 215	13 341 921
Unstable	31 075 431	36 492 756	39 025 787	42 656 689	43 897 241
Extreme Unst.	2 472 200	1 240 000	304 200	383 900	364 600

Total	49 403 677	52 220 190	54 176 420	57 911 147	58 804 268
-------	------------	------------	------------	------------	------------

Country groups and economic blocks:

ACP	1 339 000	1 499 600	1 442 980	1 352 190	1 370 435
ASEAN	374 900	545 300	704 500	697 100	865 000
BRICS	31 379 400	34 051 600	35 538 503	38 761 149	39 824 329
CPE	23 534 000	26 534 000	28 316 700	31 410 000	31 873 000
EC	2 151 306	2 009 313	1 984 790	2 214 479	2 249 935
EFTA	1 912 066	2 009 225	2 030 639	2 092 803	2 108 950
G7	9 770 856	9 520 732	5 521 105	5 470 953	5 044 758
MERCOSUR	2 052 795	1 915 676	1 542 293	1 319 917	1 362 571
NAFTA	4 850 856	4 913 364	4 567 905	4 466 553	4 027 318
OECD	10 900 530	10 829 207	10 382 389	10 529 631	10 137 493
SACD	1 227 000	1 386 000	1 311 880	1 253 390	1 272 125

ANTIMONY

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	2 544	3 452	3 832	4 214	4 285
Developing C.	152 322	136 095	134 604	118 237	117 095
Least Developed C.	6 421	8 004	3 980	4 166	2 242
Transition C.	13 469	15 627	20 050	23 059	36 043
Total	174 756	163 178	162 466	149 676	159 665

Annual per capita income:

High Income	8 944	9 972	10 232	4 214	4 285
Upper Middle Inc.	146 697	130 104	127 948	122 445	121 373
Lower Middle Inc.	6 746	8 595	24 286	23 017	34 007
Low Income	12 369	14 507	0	0	0
Total	174 756	163 178	162 466	149 676	159 665

Political stability:

Stable	0	0	0	1	0
Fair	3 545	5 246	5 452	5 599	5 300
Unstable	171 199	157 355	156 035	142 012	152 344
Extreme Unst.	12	577	979	2 064	2 021
Total	174 756	163 178	162 466	149 676	159 665

Country groups and economic blocks:

ACP	3 066	2 405	815	100	1 200
ASEAN	7 573	9 482	5 784	4 386	2 474
BRICS	145 066	129 862	128 615	118 920	115 820
CPE	136 080	121 927	122 498	111 620	108 200
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	6 463	6 697	4	1	0
MERCOSUR	0	0	0	0	0
NAFTA	232	471	270	91	166
OECD	9 303	7 926	7 168	6 254	6 451
SACD	3 066	2 405	815	100	1 200

ARSENIC

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	1 040	1 045	1 045	1 045	1 045
Developing C.	39 469	36 198	34 005	34 715	33 120
Least Developed C.	0	0	0	0	0
Transition C.	1 500	1 500	1 500	1 500	1 500
Total	42 009	38 743	36 550	37 260	35 665
Annual per capita income:					
High Income	2 540	2 545	2 545	1 045	1 045
Upper Middle Inc.	30 146	27 110	27 090	28 610	28 460
Lower Middle Inc.	9 323	9 088	6 915	7 605	6 160
Low Income	0	0	0	0	0
Total	42 009	38 743	36 550	37 260	35 665
Political stability:					
Stable	0	0	0	0	0
Fair	5 085	3 045	3 025	3 045	3 005
Unstable	36 823	35 698	33 525	34 215	32 660
Extreme Unst.	101	0	0	0	0
Total	42 009	38 743	36 550	37 260	35 665
Country groups and economic blocks:					
ACP	4 045	2 000	1 980	2 000	1 960
ASEAN	400	0	0	0	0
BRICS	27 500	26 500	26 500	26 500	26 500
CPE	26 000	25 000	25 000	25 000	25 000
EC	1 000	1 000	1 000	1 000	1 000
EFTA	0	0	0	0	0
G7	1 540	1 545	45	45	45
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	1 040	1 045	1 045	1 045	1 045
SACD	4 045	2 000	1 980	2 000	1 960

BAUXITE (CRUDE ORE)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	78 569 553	83 292 920	80 727 749	82 931 560	85 560 768
Developing C.	148 448 710	186 287 956	148 396 980	180 698 343	154 526 257
Least Developed C.	20 779 146	19 457 267	20 372 772	21 782 255	32 721 613
Transition C.	11 142 206	11 545 069	11 347 061	11 320 378	12 125 168
Total	258 939 615	300 583 212	260 844 562	296 732 536	284 933 806

DATA

Annual per capita income:

High Income	84 246 284	90 811 580	91 205 909	85 105 560	88 718 988
Upper Middle Inc.	102 762 609	107 923 893	120 750 103	159 009 771	135 533 151
Lower Middle Inc.	51 151 576	82 390 472	28 515 818	31 113 350	28 194 554
Low Income	20 779 146	19 457 267	20 372 732	21 503 855	32 487 113
Total	258 939 615	300 583 212	260 844 562	296 732 536	284 933 806

Political stability:

Stable	0	0	0	0	0
Fair	124 892 314	96 116 365	101 833 029	123 919 085	106 526 268
Unstable	96 530 068	204 441 559	158 980 377	171 738 762	177 361 358
Extreme Unst.	37 517 233	25 288	31 156	1 074 689	1 046 180
Total	258 939 615	300 583 212	260 844 562	296 732 536	284 933 806

Country groups and economic blocks:

ACP	36 320 054	35 535 912	37 364 770	37 713 743	44 224 520
ASEAN	31 664 873	57 725 688	7 306 150	29 571 867	8 794 722
BRICS	100 817 710	112 188 628	124 070 071	135 980 789	134 826 832
CPE	44 152 300	50 821 380	60 302 400	66 200 000	66 600 000
EC	2 160 401	2 045 920	1 967 356	1 921 857	1 944 190
EFTA	0	0	0	0	0
G7	5 384 152	5 862 000	199 100	170 000	170 000
MERCOSUR	37 273 132	36 237 255	38 654 160	38 048 810	39 584 200
NAFTA	224 152	128 000	128 000	100 000	100 000
OECD	80 186 703	84 080 262	81 810 045	83 969 663	86 540 144
SACD	67 663	40 130	29 027	6 035	1 451

BISMUTH

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	556	520	586	775	684
Developing C.	6 813	8 922	11 221	10 871	9 695
Least Developed C.	0	0	0	0	0
Transition C.	56	46	44	44	31
Total	7 425	9 488	11 851	11 690	10 410

Annual per capita income:

High Income	606	560	626	775	684
Upper Middle Inc.	6 805	8 912	8 886	7 891	7 669
Lower Middle Inc.	14	16	2 339	3 024	2 057
Low Income	0	0	0	0	0
Total	7 425	9 488	11 851	11 690	10 410

Political stability:

Stable	0	0	0	2	0
Fair	560	524	586	3 773	2 697
Unstable	6 865	8 964	11 265	7 915	7 713
Extreme Unst.	0	0	0	0	0
Total	7 425	9 488	11 851	11 690	10 410

Abbreviations: see Explanation

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	2 324	3 000	2 013
BRICS	6 050	7 540	7 790	7 290	7 130
CPE	6 000	7 500	10 074	10 250	9 113
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	606	560	586	775	684
MERCOSUR	0	0	0	0	0
NAFTA	910	859	952	603	541
OECD	1 356	1 344	1 534	1 376	1 223
SACD	0	0	0	0	0

CADMIUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	5 685	5 876	6 091	5 657	6 745
Developing C.	14 163	14 202	15 178	14 261	15 194
Least Developed C.	0	0	0	0	0
Transition C.	2 834	2 260	2 736	3 352	4 072
Total	22 682	22 338	24 005	23 270	26 011

Annual per capita income:

High Income	10 195	10 298	11 036	8 921	11 095
Upper Middle Inc.	11 228	11 571	12 597	13 442	14 391
Lower Middle Inc.	1 059	269	172	707	325
Low Income	200	200	200	200	200
Total	22 682	22 338	24 005	23 270	26 011

Political stability:

Stable	310	310	0	1 159	0
Fair	9 559	9 539	12 054	8 157	14 022
Unstable	12 422	12 489	11 951	13 954	11 989
Extreme Unst.	391	0	0	0	0
Total	22 682	22 338	24 005	23 270	26 011

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	8 856	8 824	9 470	9 548	9 435
CPE	7 465	7 696	8 401	8 362	8 300
EC	1 634	1 832	2 183	1 729	1 717
EFTA	310	310	320	310	335
G7	5 051	5 064	4 158	3 988	5 345
MERCOSUR	237	228	230	239	200
NAFTA	3 368	3 364	3 146	2 942	3 949
OECD	10 677	10 849	11 415	10 204	12 339
SACD	0	0	0	0	0

COPPER

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	3 499 197	3 788 104	3 886 002	3 968 674	4 017 126
Developing C.	10 487 925	11 258 696	11 294 855	11 926 781	12 865 425
Least Developed C.	1 524 048	1 918 852	2 095 241	2 131 175	2 114 074
Transition C.	1 253 311	1 306 316	1 368 847	1 377 049	1 420 534
Total	16 764 481	18 271 968	18 644 945	19 403 679	20 417 159

Annual per capita income:

High Income	9 493 686	10 129 384	10 376 486	9 685 240	9 495 836
Upper Middle Inc.	4 790 590	5 068 133	5 350 105	6 255 596	7 212 439
Lower Middle Inc.	1 828 622	2 097 204	1 734 686	2 302 518	2 611 686
Low Income	651 583	977 247	1 183 668	1 160 325	1 097 198
Total	16 764 481	18 271 968	18 644 945	19 403 679	20 417 159

Political stability:

Stable	25 445	38 763	42 810	714 647	0
Fair	10 273 854	10 901 277	11 442 083	10 413 387	11 537 894
Unstable	5 558 821	6 403 157	6 081 186	7 085 550	7 645 849
Extreme Unst.	906 361	928 771	1 078 866	1 190 095	1 233 416
Total	16 764 481	18 271 968	18 644 945	19 403 679	20 417 159

Country groups and economic blocks:

ACP	1 617 151	2 005 427	2 127 252	2 067 907	2 068 932
ASEAN	637 744	789 164	685 380	924 407	1 047 202
BRICS	2 536 240	2 754 276	2 877 144	2 876 143	2 970 857
CPE	1 722 770	1 939 388	2 091 762	2 081 670	2 269 720
EC	830 925	856 310	850 039	878 146	931 386
EFTA	0	0	0	0	0
G7	2 384 882	2 585 795	2 057 429	2 094 647	2 137 605
MERCOSUR	358 841	380 579	403 771	421 274	419 490
NAFTA	2 247 157	2 410 919	2 572 454	2 689 098	2 903 734
OECD	9 413 934	10 039 217	10 132 119	10 320 794	10 313 958
SACD	1 442 396	1 829 776	1 920 110	1 908 797	1 920 956

GALLIUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	12	48	26	19	9
Developing C.	50	128	262	254	171
Least Developed C.	0	0	0	0	0
Transition C.	33	17	14	17	14
Total	95	193	302	290	194

DATA

Annual per capita income:

High Income	14	52	30	19	9
Upper Middle Inc.	70	130	262	258	175
Lower Middle Inc.	11	11	10	13	10
Low Income	0	0	0	0	0
Total	95	193	302	290	194

Political stability:

Stable	0	0	0	0	0
Fair	12	48	26	19	9
Unstable	83	145	266	258	175
Extreme Unst.	0	0	10	13	10
Total	95	193	302	290	194

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	56	134	266	258	175
CPE	50	128	262	254	171
EC	4	40	18	11	4
EFTA	0	0	0	0	0
G7	14	52	24	19	9
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	12	48	26	19	9
SACD	0	0	0	0	0

GERMANIUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	21	22	22	18	5
Developing C.	84	89	95	114	110
Least Developed C.	0	0	0	0	0
Transition C.	6	6	7	7	7
Total	111	117	124	139	122

Annual per capita income:

High Income	26	27	28	18	5
Upper Middle Inc.	84	89	95	120	116
Lower Middle Inc.	1	1	1	1	1
Low Income	0	0	0	0	0
Total	111	117	124	139	122

Political stability:

Stable	16	17	17	0	0
Fair	5	5	5	18	5
Unstable	90	95	101	120	116
Extreme Unst.	0	0	1	1	1
Total	111	117	124	139	122

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	89	94	101	120	116
CPE	84	89	95	114	110
EC	16	17	17	13	0
EFTA	0	0	0	0	0
G7	10	10	5	5	5
MERCOSUR	0	0	0	0	0
NAFTA	3	3	3	3	3
OECD	21	22	22	18	5
SACD	0	0	0	0	0

LEAD

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	1 251 448	1 288 252	1 339 251	1 220 430	993 311
Developing C.	3 570 667	3 706 532	3 654 977	3 443 060	3 313 645
Least Developed C.	10 690	14 938	20 744	16 443	24 211
Transition C.	263 807	292 449	332 200	317 580	372 160
Total	5 096 612	5 302 171	5 347 172	4 997 513	4 703 327

Annual per capita income:

High Income	1 384 934	1 439 841	1 553 010	1 207 759	975 101
Upper Middle Inc.	3 394 837	3 524 986	3 438 492	3 403 149	3 300 449
Lower Middle Inc.	249 814	260 899	316 926	351 652	388 876
Low Income	67 027	76 445	38 744	34 953	38 901
Total	5 096 612	5 302 171	5 347 172	4 997 513	4 703 327

Political stability:

Stable	0	0	0	3 809	0
Fair	1 281 379	1 323 273	1 461 044	1 254 656	1 101 858
Unstable	3 653 263	3 966 657	3 872 769	3 646 359	3 521 372
Extreme Unst.	161 970	12 241	13 359	92 689	80 097
Total	5 096 612	5 302 171	5 347 172	4 997 513	4 703 327

Country groups and economic blocks:

ACP	73 719	65 786	55 092	62 926	62 745
ASEAN	10 360	15 200	20 900	15 690	22 910
BRICS	2 929 951	3 021 178	2 956 296	2 707 283	2 615 954
CPE	2 651 600	2 738 630	2 648 020	2 373 400	2 269 820
EC	223 836	217 364	229 680	193 133	181 279
EFTA	0	0	0	0	0
G7	558 075	524 714	381 617	373 809	358 658
MERCOSUR	35 397	36 693	40 889	36 000	37 000
NAFTA	645 105	613 039	632 079	637 581	599 929
OECD	1 518 975	1 593 832	1 672 461	1 547 431	1 280 672
SACD	62 419	53 269	41 812	44 926	46 245

LITHIUM (Li₂O-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	29 366	23 107	24 558	26 344	24 874
Developing C.	43 080	40 526	44 492	42 005	53 675
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	72 446	63 633	69 050	68 349	78 549
Annual per capita income:					
High Income	57 856	47 237	56 878	48 844	56 114
Upper Middle Inc.	12 920	14 716	10 452	17 660	20 405
Lower Middle Inc.	0	0	0	0	0
Low Income	1 670	1 680	1 720	1 845	2 030
Total	72 446	63 633	69 050	68 349	78 549
Political stability:					
Stable	0	0	0	0	0
Fair	63 906	52 937	56 878	56 554	68 369
Unstable	8 540	10 696	12 172	11 795	10 180
Extreme Unst.	0	0	0	0	0
Total	72 446	63 633	69 050	68 349	78 549
Country groups and economic blocks:					
ACP	1 670	1 680	1 720	1 845	2 030
ASEAN	0	0	0	0	0
BRICS	7 260	9 016	10 452	9 950	8 150
CPE	6 870	8 600	10 000	9 500	7 500
EC	246	237	208	204	314
EFTA	0	0	0	0	0
G7	2 000	1 870	2 150	2 000	2 100
MERCOSUR	6 050	6 116	7 952	8 160	12 905
NAFTA	2 000	1 870	2 150	2 000	2 100
OECD	57 856	47 237	49 378	48 844	56 114
SACD	1 670	1 680	1 720	1 845	2 030

MERCURY

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	15	15	15	15	15
Developing C.	1 643	1 958	2 638	3 180	3 800
Least Developed C.	0	0	0	0	0
Transition C.	228	211	181	166	190
Total	1 886	2 184	2 834	3 361	4 005

DATA

Annual per capita income:

High Income	114	84	110	29	17
Upper Middle Inc.	1 574	1 919	2 573	3 196	3 828
Lower Middle Inc.	20	51	151	136	160
Low Income	178	130	0	0	0
Total	1 886	2 184	2 834	3 361	4 005

Political stability:

Stable	0	0	0	0	0
Fair	101	62	60	54	42
Unstable	1 785	2 122	2 774	3 307	3 963
Extreme Unst.	0	0	0	0	0
Total	1 886	2 184	2 834	3 361	4 005

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	1 397	1 663	2 310	2 850	3 533
CPE	1 347	1 613	2 260	2 800	3 483
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	65	65	15	15	15
MERCOSUR	37	28	25	25	25
NAFTA	205	283	316	322	282
OECD	254	302	336	336	284
SACD	0	0	0	0	0

RARE EARTHS CONCENTRATES (REO-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	5 558	4 741	11 960	14 594	13 872
Developing C.	95 319	94 661	95 455	106 445	107 800
Least Developed C.	0	0	0	0	0
Transition C.	2 131	1 443	2 134	2 312	3 063
Total	103 008	100 845	109 549	123 351	124 735

Annual per capita income:

High Income	7 689	6 184	14 094	14 594	13 872
Upper Middle Inc.	95 319	94 661	95 455	108 757	110 863
Lower Middle Inc.	0	0	0	0	0
Low Income	0	0	0	0	0
Total	103 008	100 845	109 549	123 351	124 735

Political stability:

Stable	0	0	0	0	0
Fair	5 764	5 002	12 415	15 159	14 472
Unstable	97 244	95 843	97 134	108 192	110 263
Extreme Unst.	0	0	0	0	0
Total	103 008	100 845	109 549	123 351	124 735

DATA

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	113	261	455	565	600
BRICS	97 337	95 843	97 134	108 192	110 263
CPE	95 000	93 800	95 000	105 000	105 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	4 467	4 916	4 769	3 678	0
MERCOSUR	206	600	0	880	2 200
NAFTA	2 336	3 473	4 769	3 678	0
OECD	5 558	4 741	11 960	14 594	13 872
SACD	0	0	0	0	0

RHENIUM

	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg
--	------------	------------	------------	------------	------------

Development status:

Developed C.	10 680	12 320	13 845	14 246	14 883
Developing C.	27 238	19 664	20 357	24 935	24 942
Least Developed C.	0	0	0	0	0
Transition C.	5 993	5 198	3 051	5 910	6 205
Total	43 911	37 182	37 253	45 091	46 030

Annual per capita income:

High Income	37 218	31 184	33 402	36 781	37 425
Upper Middle Inc.	5 200	4 800	2 600	7 206	7 200
Lower Middle Inc.	1 493	1 198	1 251	1 104	1 405
Low Income	0	0	0	0	0
Total	43 911	37 182	37 253	45 091	46 030

Political stability:

Stable	0	0	0	0	0
Fair	36 011	29 982	32 202	36 781	40 725
Unstable	7 900	7 200	5 051	8 310	5 305
Extreme Unst.	0	0	0	0	0
Total	43 911	37 182	37 253	45 091	46 030

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	3 700	3 800	3 800	3 900	3 900
CPE	2 200	2 300	2 300	2 400	2 400
EC	2 770	5 210	5 335	6 346	6 443
EFTA	0	0	0	0	0
G7	9 410	8 610	8 510	7 900	8 440
MERCOSUR	0	0	0	0	0
NAFTA	7 910	7 110	8 510	7 900	8 440
OECD	35 718	29 684	31 902	36 781	37 425
SACD	0	0	0	0	0

SELENIUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	2 098	2 031	2 108	2 069	2 088
Developing C.	993	1 309	966	955	1 045
Least Developed C.	0	0	0	0	0
Transition C.	325	336	257	231	227
Total	3 416	3 676	3 331	3 255	3 360
Annual per capita income:					
High Income	2 313	2 222	2 278	2 069	2 088
Upper Middle Inc.	980	1 328	947	1 078	1 154
Lower Middle Inc.	123	126	106	108	118
Low Income	0	0	0	0	0
Total	3 416	3 676	3 331	3 255	3 360
Political stability:					
Stable	93	72	94	156	0
Fair	2 092	2 020	2 081	1 930	2 119
Unstable	1 215	1 584	1 156	1 169	1 151
Extreme Unst.	16	0	0	0	90
Total	3 416	3 676	3 331	3 255	3 360
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	70	70	70	70	90
BRICS	861	1 166	906	926	974
CPE	700	1 000	720	729	772
EC	1 133	1 152	1 184	1 140	1 160
EFTA	0	0	0	0	0
G7	1 760	1 729	1 624	1 589	1 628
MERCOSUR	0	0	0	0	0
NAFTA	240	270	262	255	297
OECD	2 263	2 204	2 228	2 168	2 209
SACD	0	0	0	0	0

TELLURIUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	110	117	126	130	140
Developing C.	0	22	9	0	0
Least Developed C.	0	0	0	0	0
Transition C.	30	31	33	35	40
Total	140	170	168	165	180

DATA

Annual per capita income:

High Income	140	148	159	130	140
Upper Middle Inc.	0	22	9	35	40
Lower Middle Inc.	0	0	0	0	0
Low Income	0	0	0	0	0
Total	140	170	168	165	180

Political stability:

Stable	0	0	0	10	0
Fair	110	117	126	120	140
Unstable	30	53	42	35	40
Extreme Unst.	0	0	0	0	0
Total	140	170	168	165	180

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	30	31	33	35	40
CPE	0	0	0	0	0
EC	7	24	31	33	39
EFTA	0	0	0	0	0
G7	133	124	95	97	101
MERCOSUR	0	0	0	0	0
NAFTA	60	62	58	60	68
OECD	110	117	126	130	140
SACD	0	0	0	0	0

TIN

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	6 268	6 556	6 973	7 216	6 841
Developing C.	288 253	312 898	312 900	274 863	227 363
Least Developed C.	19 320	27 452	44 257	66 167	105 314
Transition C.	152	156	321	578	627
Total	313 993	347 062	364 451	348 824	340 145

Annual per capita income:

High Income	6 420	6 712	7 294	7 216	6 841
Upper Middle Inc.	159 522	193 278	210 554	178 117	139 597
Lower Middle Inc.	129 199	120 141	138 128	155 785	184 398
Low Income	18 852	26 931	8 475	7 706	9 309
Total	313 993	347 062	364 451	348 824	340 145

Political stability:

Stable	0	0	0	0	0
Fair	23 599	15 963	11 592	19 177	16 573
Unstable	277 441	324 171	346 314	322 727	313 580
Extreme Unst.	12 953	6 928	6 545	6 920	9 992
Total	313 993	347 062	364 451	348 824	340 145

Country groups and economic blocks:

ACP	16 260	10 447	10 960	10 004	12 752
ASEAN	115 833	120 921	119 660	137 505	167 642
BRICS	129 755	166 012	183 854	154 412	116 636
CPE	119 145	154 189	162 873	139 571	101 604
EC	110	84	75	58	206
EFTA	0	0	0	0	0
G7	152	156	0	16	144
MERCOSUR	13 667	16 830	25 534	18 824	19 000
NAFTA	0	0	0	0	0
OECD	6 268	6 556	6 973	7 216	6 841
SACD	10 460	4 332	4 091	4 746	6 641

ZINC

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	3 637 009	3 435 908	3 442 856	3 446 624	2 708 645
Developing C.	9 063 670	9 402 352	9 400 612	9 149 645	8 929 566
Least Developed C.	22 785	51 129	88 517	86 195	138 577
Transition C.	647 011	675 197	658 349	667 791	747 910
Total	13 370 475	13 564 586	13 590 334	13 350 255	12 524 698

Annual per capita income:

High Income	3 856 103	3 689 200	3 753 384	3 514 988	2 772 493
Upper Middle Inc.	8 062 302	8 395 521	8 322 780	8 299 107	8 067 363
Lower Middle Inc.	1 371 447	1 364 781	1 401 753	1 422 815	1 489 515
Low Income	80 623	115 084	112 417	113 345	195 327
Total	13 370 475	13 564 586	13 590 334	13 350 255	12 524 698

Political stability:

Stable	52 265	41 124	46 063	289 584	0
Fair	4 059 447	3 723 285	4 060 904	3 427 607	3 298 074
Unstable	8 325 786	9 746 547	9 463 630	9 432 589	8 991 437
Extreme Unst.	932 977	53 630	19 737	200 475	235 187
Total	13 370 475	13 564 586	13 590 334	13 350 255	12 524 698

Country groups and economic blocks:

ACP	256 857	265 574	269 858	252 915	307 837
ASEAN	89 049	78 046	70 480	56 060	54 380
BRICS	6 011 422	6 351 322	6 275 387	5 879 780	5 846 675
CPE	4 978 650	5 295 750	5 214 000	4 839 800	4 761 100
EC	758 571	743 828	753 963	722 336	698 141
EFTA	0	0	0	0	0
G7	1 571 000	1 422 345	1 182 925	1 114 284	1 126 757
MERCOSUR	206 258	199 847	213 766	189 800	183 300
NAFTA	2 039 849	1 853 487	1 842 803	1 901 058	1 787 945
OECD	4 512 739	4 294 049	4 345 058	4 437 849	3 596 173
SACD	243 057	226 359	195 178	165 390	172 012

6.3.3 PRECIOUS METALS

GOLD

	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg
Development status:					
Developed C.	636 608	680 072	684 698	704 607	714 434
Developing C.	1 489 301	1 556 243	1 594 448	1 623 615	1 685 514
Least Developed C.	253 328	290 154	305 221	319 260	342 337
Transition C.	350 440	387 111	431 767	452 827	471 778
Total	2 729 677	2 913 580	3 016 134	3 100 309	3 214 063
Annual per capita income:					
High Income	885 168	943 580	1 038 812	743 989	758 961
Upper Middle Inc.	1 132 721	1 204 012	1 182 344	1 527 408	1 559 205
Lower Middle Inc.	500 544	557 012	575 166	593 215	643 964
Low Income	211 244	208 976	219 812	235 697	251 933
Total	2 729 677	2 913 580	3 016 134	3 100 309	3 214 063
Political stability:					
Stable	19 352	21 128	20 074	175 191	9 866
Fair	969 675	936 282	909 999	724 759	977 115
Unstable	1 518 125	1 738 059	1 913 606	1 981 187	1 977 808
Extreme Unst.	222 525	218 111	172 455	219 172	249 274
Total	2 729 677	2 913 580	3 016 134	3 100 309	3 214 063
Country groups and economic blocks:					
ACP	629 285	697 211	718 291	722 753	802 003
ASEAN	101 710	94 424	102 666	129 116	128 220
BRICS	826 507	884 003	934 964	934 207	942 636
CPE	410 563	438 745	471 885	470 882	471 936
EC	25 427	28 572	27 322	27 259	26 847
EFTA	0	0	0	0	0
G7	549 243	585 492	369 651	384 011	393 700
MERCOSUR	125 336	135 762	143 983	148 329	141 766
NAFTA	444 911	481 187	480 308	511 071	519 658
OECD	811 122	874 512	871 044	900 046	907 395
SACD	219 928	232 106	239 684	252 072	254 643

PALLADIUM

	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg
Development status:					
Developed C.	28 801	30 348	35 894	36 361	35 811
Developing C.	85 456	87 498	69 108	92 902	88 495
Least Developed C.	0	0	0	0	0
Transition C.	81 732	78 655	80 553	75 732	86 273
Total	195 989	196 501	185 555	204 995	210 579

DATA

Annual per capita income:

High Income	110 511	108 978	116 424	36 361	35 811
Upper Middle Inc.	77 342	77 370	58 993	158 579	162 546
Lower Middle Inc.	0	0	0	0	0
Low Income	8 136	10 153	10 138	10 055	12 222
Total	195 989	196 501	185 555	204 995	210 579

Political stability:

Stable	379	766	808	22 600	0
Fair	31 004	30 919	35 669	13 939	35 834
Unstable	164 606	164 816	149 078	168 456	174 745
Extreme Unst.	0	0	0	0	0
Total	195 989	196 501	185 555	204 995	210 579

Country groups and economic blocks:

ACP	85 456	87 498	69 108	92 902	88 495
ASEAN	0	0	0	0	0
BRICS	156 448	154 638	138 940	158 401	162 523
CPE	0	0	0	0	0
EC	402	796	833	804	931
EFTA	0	0	0	0	0
G7	109 544	107 552	34 448	35 132	34 270
MERCOSUR	0	0	0	0	0
NAFTA	27 834	28 922	34 448	35 132	34 270
OECD	28 801	30 348	35 894	36 361	35 811
SACD	85 456	87 498	69 108	92 902	88 495

PLATINUM

2012 kg	2013 kg	2014 kg	2015 kg	2016 kg
------------	------------	------------	------------	------------

Development status:

Developed C.	10 843	12 876	13 608	14 807	14 571
Developing C.	141 009	152 143	107 733	152 581	149 268
Least Developed C.	0	0	0	0	0
Transition C.	24 913	22 902	21 773	20 841	21 863
Total	176 765	187 921	143 114	188 229	185 702

Annual per capita income:

High Income	35 753	35 776	35 378	14 807	14 571
Upper Middle Inc.	130 488	139 080	95 253	160 858	156 021
Lower Middle Inc.	0	0	0	0	0
Low Income	10 524	13 065	12 483	12 564	15 110
Total	176 765	187 921	143 114	188 229	185 702

Political stability:

Stable	429	946	1 060	10 000	0
Fair	10 849	12 148	12 675	4 840	14 574
Unstable	164 027	172 991	129 379	173 389	171 128
Extreme Unst.	1 460	1 836	0	0	0
Total	176 765	187 921	143 114	188 229	185 702

Abbreviations: see Explanation

DATA

Country groups and economic blocks:

ACP	139 549	150 307	106 598	151 720	148 351
ASEAN	0	0	0	0	0
BRICS	153 500	159 924	115 761	159 964	155 101
CPE	0	0	0	0	0
EC	468	997	1 100	1 032	1 228
EFTA	0	0	0	0	0
G7	35 144	34 623	12 355	13 667	13 191
MERCOSUR	0	0	0	0	0
NAFTA	10 234	11 723	12 355	13 667	13 191
OECD	10 843	12 876	13 608	14 807	14 571
SACD	139 549	150 307	106 598	151 720	148 351

RHODIUM

	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg
--	------------	------------	------------	------------	------------

Development status:

Developed C.	684	570	674	626	603
Developing C.	18 701	19 275	14 056	19 850	20 559
Least Developed C.	0	0	0	0	0
Transition C.	2 799	2 488	2 488	2 488	2 644
Total	22 184	22 333	17 218	22 964	23 806

Annual per capita income:

High Income	3 483	3 058	3 162	626	603
Upper Middle Inc.	17 810	18 129	12 916	21 210	21 881
Lower Middle Inc.	0	0	0	0	0
Low Income	891	1 146	1 140	1 128	1 322
Total	22 184	22 333	17 218	22 964	23 806

Political stability:

Stable	0	0	0	530	0
Fair	684	570	674	96	603
Unstable	21 500	21 763	16 544	22 338	23 203
Extreme Unst.	0	0	0	0	0
Total	22 184	22 333	17 218	22 964	23 806

Country groups and economic blocks:

ACP	18 701	19 275	14 056	19 850	20 559
ASEAN	0	0	0	0	0
BRICS	20 609	20 617	15 404	21 210	21 881
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	3 483	3 058	674	626	603
MERCOSUR	0	0	0	0	0
NAFTA	684	570	674	626	603
OECD	684	570	674	626	603
SACD	18 701	19 275	14 056	19 850	20 559

SILVER

	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg
Development status:					
Developed C.	5 131 277	5 278 674	5 274 917	4 756 039	4 891 554
Developing C.	17 325 529	18 073 407	19 136 598	19 805 757	19 535 956
Least Developed C.	82 867	126 633	114 158	114 144	88 079
Transition C.	2 509 459	2 502 260	2 536 887	3 001 780	2 753 140
Total	25 049 132	25 980 974	27 062 560	27 677 720	27 268 729
Annual per capita income:					
High Income	7 686 610	7 815 225	9 162 710	6 238 426	6 371 069
Upper Middle Inc.	14 717 106	15 440 894	14 628 075	17 951 510	17 381 265
Lower Middle Inc.	2 530 695	2 580 936	3 149 839	3 376 404	3 430 220
Low Income	114 721	143 919	121 936	111 380	86 175
Total	25 049 132	25 980 974	27 062 560	27 677 720	27 268 729
Political stability:					
Stable	16 109	25 449	28 641	396 305	7 960
Fair	7 129 755	7 368 272	8 957 186	7 155 898	8 746 780
Unstable	17 450 787	18 475 637	18 065 759	19 924 951	18 300 278
Extreme Unst.	452 481	111 616	10 974	200 566	213 711
Total	25 049 132	25 980 974	27 062 560	27 677 720	27 268 729
Country groups and economic blocks:					
ACP	255 775	360 661	366 079	287 942	311 164
ASEAN	351 004	228 156	213 574	255 470	234 923
BRICS	5 525 605	5 538 842	5 335 263	5 504 747	5 486 889
CPE	3 717 590	3 764 013	3 605 354	3 551 295	3 630 953
EC	1 654 633	1 746 662	1 729 415	1 834 820	1 908 633
EFTA	0	0	0	0	0
G7	3 169 311	3 108 739	1 682 844	1 478 423	1 556 742
MERCOSUR	769 739	796 904	930 493	1 104 291	956 707
NAFTA	7 098 750	7 504 363	7 444 965	7 428 958	6 960 187
OECD	11 807 709	12 400 017	12 768 381	12 381 603	11 949 270
SACD	101 626	164 925	93 654	73 770	74 505

6.3.4 INDUSTRIAL MINERALS**ASBESTOS**

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	0	0	0	0	0
Developing C.	724 988	711 374	711 227	560 000	380 800
Least Developed C.	0	0	0	0	0
Transition C.	1 241 200	1 054 400	946 168	827 490	906 275
Total	1 966 188	1 765 774	1 657 395	1 387 490	1 287 075

DATA

Annual per capita income:

High Income	1 000 000	811 000	733 068	0	0
Upper Middle Inc.	965 769	954 225	924 327	1 387 490	1 287 075
Lower Middle Inc.	389	172	0	0	0
Low Income	30	377	0	0	0
Total	1 966 188	1 765 774	1 657 395	1 387 490	1 287 075

Political stability:

Stable	0	0	0	0	0
Fair	304 569	0	213 100	0	192 600
Unstable	1 661 230	1 765 774	1 444 295	1 387 490	1 094 475
Extreme Unst.	389	0	0	0	0
Total	1 966 188	1 765 774	1 657 395	1 387 490	1 287 075

Country groups and economic blocks:

ACP	30	377	0	0	0
ASEAN	0	0	0	0	0
BRICS	1 724 958	1 521 997	1 444 295	1 207 690	1 094 475
CPE	420 000	420 000	400 000	250 000	203 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1 000 000	811 000	0	0	0
MERCOSUR	304 569	290 825	311 227	310 000	177 800
NAFTA	0	0	0	0	0
OECD	0	0	0	0	0
SACD	30	377	0	0	0

BARYTE

2012	2013	2014	2015	2016
metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	806 903	855 622	872 151	673 314	449 512
Developing C.	9 166 546	8 339 322	7 666 841	7 726 877	7 598 313
Least Developed C.	37 239	41 795	53 670	34 986	36 455
Transition C.	653 100	733 700	870 500	962 300	1 046 300
Total	10 663 788	9 970 439	9 463 162	9 397 477	9 130 580

Annual per capita income:

High Income	901 903	1 054 622	1 113 516	656 314	399 512
Upper Middle Inc.	6 733 765	6 346 350	6 095 339	6 258 675	6 425 123
Lower Middle Inc.	3 012 781	2 537 572	2 254 287	2 470 488	2 296 945
Low Income	15 339	31 895	20	12 000	9 000
Total	10 663 788	9 970 439	9 463 162	9 397 477	9 130 580

Political stability:

Stable	0	0	0	30 000	0
Fair	1 114 282	982 366	1 573 201	826 481	1 207 441
Unstable	7 265 686	8 738 405	7 745 190	7 758 957	7 437 042
Extreme Unst.	2 283 820	249 668	144 771	782 039	486 097
Total	10 663 788	9 970 439	9 463 162	9 397 477	9 130 580

DATA

Country groups and economic blocks:

ACP	16 292	18 960	7 113	3 323	3 000
ASEAN	191 738	239 732	301 206	345 607	359 556
BRICS	6 438 565	5 375 465	5 229 352	4 097 000	4 846 133
CPE	4 490 000	4 090 600	4 212 020	3 136 000	3 209 000
EC	106 530	97 446	172 475	198 297	172 373
EFTA	0	0	0	0	0
G7	836 530	990 446	816 575	587 297	369 373
MERCOSUR	195 479	60 687	17 754	14 017	24 522
NAFTA	827 997	1 088 585	815 914	734 700	420 970
OECD	1 774 552	1 934 523	1 187 049	1 534 957	871 721
SACD	0	0	0	0	0

BENTONITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	7 981 771	7 120 173	7 710 363	7 127 813	6 396 779
Developing C.	8 156 586	7 898 371	8 070 770	10 123 431	8 445 977
Least Developed C.	2 396	1 645	739	350	322
Transition C.	833 546	1 103 484	1 085 570	1 052 293	1 202 382
Total	16 974 299	16 123 673	16 867 442	18 303 887	16 045 460

Annual per capita income:

High Income	8 446 104	7 858 161	8 611 413	7 130 983	6 411 451
Upper Middle Inc.	6 951 089	6 550 564	6 471 063	9 231 917	7 622 027
Lower Middle Inc.	1 574 710	1 713 303	1 784 227	1 940 637	2 011 660
Low Income	2 396	1 645	739	350	322
Total	16 974 299	16 123 673	16 867 442	18 303 887	16 045 460

Political stability:

Stable	2 263	762	1 000	700	700
Fair	7 281 580	6 480 677	6 998 389	6 268 418	5 831 553
Unstable	8 115 397	9 605 119	9 599 679	8 646 960	8 193 427
Extreme Unst.	1 575 059	37 115	268 374	3 387 809	2 019 780
Total	16 974 299	16 123 673	16 867 442	18 303 887	16 045 460

Country groups and economic blocks:

ACP	123 080	177 615	172 558	166 385	149 453
ASEAN	150 750	12 032	10 370	10 480	10 230
BRICS	5 487 582	6 082 933	6 128 730	6 480 535	6 433 742
CPE	3 500 668	3 610 335	3 600 700	3 650 500	3 600 389
EC	2 511 508	2 179 411	2 339 363	2 542 113	2 237 079
EFTA	0	0	0	0	0
G7	6 399 977	5 932 664	5 726 264	4 952 074	4 581 545
MERCOSUR	485 341	514 720	552 411	589 252	581 650
NAFTA	5 936 224	5 176 887	5 319 625	4 304 236	3 709 176
OECD	9 770 335	8 579 984	9 201 881	10 428 842	8 141 705
SACD	122 412	177 280	171 858	165 885	149 064

BORON

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	1 102 000	1 032 000	1 118 000	1 218 000	1 134 000
Developing C.	3 589 956	3 554 920	3 298 237	3 545 747	3 066 367
Least Developed C.	0	0	0	0	0
Transition C.	105 000	106 199	111 234	112 000	110 000
Total	4 796 956	4 693 119	4 527 471	4 875 747	4 310 367

Annual per capita income:

High Income	1 626 572	1 690 273	2 070 767	1 735 584	1 692 854
Upper Middle Inc.	3 042 746	2 845 508	2 304 905	2 991 425	2 434 828
Lower Middle Inc.	127 638	157 338	151 799	148 738	182 685
Low Income	0	0	0	0	0
Total	4 796 956	4 693 119	4 527 471	4 875 747	4 310 367

Political stability:

Stable	0	0	0	0	0
Fair	2 077 246	2 039 214	2 019 533	2 035 584	2 022 854
Unstable	2 716 710	2 653 905	2 507 938	1 000 163	456 513
Extreme Unst.	3 000	0	0	1 840 000	1 831 000
Total	4 796 956	4 693 119	4 527 471	4 875 747	4 310 367

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	235 000	241 199	246 234	242 000	240 000
CPE	160 000	165 000	165 000	160 000	160 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1 177 000	1 108 199	1 118 000	1 218 000	1 134 000
MERCOSUR	525 674	425 140	375 000	300 000	300 000
NAFTA	1 102 000	1 032 000	1 118 000	1 218 000	1 134 000
OECD	3 771 572	3 614 074	3 484 533	3 575 584	3 523 854
SACD	0	0	0	0	0

DIAMONDS (GEM)

	2012 ct	2013 ct	2014 ct	2015 ct	2016 ct
Development status:					
Developed C.	15 027 652	16 225 717	16 562 797	18 322 261	18 835 494
Developing C.	22 751 086	24 123 868	23 997 012	20 807 643	20 377 739
Least Developed C.	12 929 550	12 121 010	12 197 467	12 131 538	12 052 270
Transition C.	20 956 590	22 731 084	22 982 100	25 147 434	24 430 920
Total	71 664 878	75 201 679	75 739 376	76 408 876	75 696 423

DATA

Annual per capita income:

High Income	35 984 242	38 956 801	39 544 897	18 322 261	18 835 494
Upper Middle Inc.	26 425 707	28 569 645	30 169 717	52 909 951	44 036 407
Lower Middle Inc.	301 011	255 008	340 810	215 020	8 320 055
Low Income	8 953 918	7 420 225	5 683 952	4 961 644	4 504 467

Total	71 664 878	75 201 679	75 739 376	76 408 876	75 696 423
-------	------------	------------	------------	------------	------------

Political stability:

Stable	0	0	0	11 677 471	0
Fair	31 429 614	33 995 139	35 614 399	22 897 698	34 953 544
Unstable	35 435 018	37 551 620	36 759 377	38 649 007	37 621 016
Extreme Unst.	4 800 246	3 654 920	3 365 600	3 184 700	3 121 863

Total	71 664 878	75 201 679	75 739 376	76 408 876	75 696 423
-------	------------	------------	------------	------------	------------

Country groups and economic blocks:

ACP	35 659 975	36 224 603	36 172 805	32 925 794	32 366 402
ASEAN	0	0	0	0	0
BRICS	23 877 222	26 002 842	26 227 301	28 454 041	27 816 357
CPE	1 855	1 050	0	0	127
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	31 485 590	33 330 744	12 011 619	11 677 471	11 996 074
MERCOSUR	16 247	16 225	18 785	10 503	60 560
NAFTA	10 529 000	10 599 660	12 011 619	11 677 471	11 996 074
OECD	15 027 652	16 225 717	16 562 797	18 322 261	18 835 494
SACD	34 534 390	35 471 206	35 198 171	32 066 747	31 583 328

DIAMONDS (IND)

2012 ct	2013 ct	2014 ct	2015 ct	2016 ct
------------	------------	------------	------------	------------

Development status:

Developed C.	4 682 271	5 855 692	4 736 940	6 916 005	7 118 580
Developing C.	19 227 961	19 233 986	15 868 763	13 791 477	13 058 818
Least Developed C.	18 731 810	15 847 178	14 686 147	13 937 046	13 845 693
Transition C.	13 971 060	15 154 056	15 321 400	16 764 956	16 287 280

Total	56 613 102	56 090 912	50 613 250	51 409 484	50 310 371
-------	------------	------------	------------	------------	------------

Annual per capita income:

High Income	18 653 331	21 009 748	20 058 340	6 916 005	7 118 580
Upper Middle Inc.	11 484 714	12 666 353	13 240 180	28 993 042	27 773 905
Lower Middle Inc.	517 374	470 741	440 340	356 671	1 254 811
Low Income	25 957 683	21 944 070	16 874 390	15 143 766	14 163 075

Total	56 613 102	56 090 912	50 613 250	51 409 484	50 310 371
-------	------------	------------	------------	------------	------------

Political stability:

Stable	0	0	0	0	0
Fair	11 429 169	13 114 736	12 228 603	13 251 421	13 464 530
Unstable	27 795 207	28 713 196	25 049 747	25 546 773	24 395 791
Extreme Unst.	17 388 726	14 262 980	13 334 900	12 611 290	12 450 050

Total	56 613 102	56 090 912	50 613 250	51 409 484	50 310 371
-------	------------	------------	------------	------------	------------

Abbreviations: see Explanation

DATA

Country groups and economic blocks:

ACP	37 897 354	35 013 708	30 483 554	27 674 040	26 747 960
ASEAN	0	0	0	0	0
BRICS	18 383 434	20 098 736	20 228 046	21 759 279	21 426 581
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	13 971 060	15 154 056	0	0	0
MERCOSUR	32 987	32 941	38 138	21 323	122 955
NAFTA	0	0	0	0	0
OECD	4 682 271	5 855 692	4 736 940	6 916 005	7 118 580
SACD	37 515 471	34 519 036	30 183 332	27 407 801	26 481 140

DIATOMITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	1 054 402	1 107 655	1 249 312	1 117 729	966 164
Developing C.	1 011 893	1 030 705	1 049 158	997 121	942 303
Least Developed C.	4 541	4 375	4 078	4 000	4 000
Transition C.	29 148	19 376	20 439	18 915	25 486
Total	2 099 984	2 162 111	2 322 987	2 137 765	1 937 953

Annual per capita income:

High Income	1 083 423	1 168 747	1 537 875	1 159 225	1 013 665
Upper Middle Inc.	981 126	968 559	759 400	954 535	893 710
Lower Middle Inc.	29 148	19 376	21 634	20 005	26 578
Low Income	6 287	5 429	4 078	4 000	4 000
Total	2 099 984	2 162 111	2 322 987	2 137 765	1 937 953

Political stability:

Stable	0	4	43 624	0	0
Fair	1 337 888	1 416 156	1 505 102	1 379 762	1 144 165
Unstable	754 213	741 951	769 066	667 347	726 974
Extreme Unst.	7 883	4 000	5 195	90 656	66 814
Total	2 099 984	2 162 111	2 322 987	2 137 765	1 937 953

Country groups and economic blocks:

ACP	6 287	5 429	5 273	5 090	5 092
ASEAN	8 500	0	0	0	0
BRICS	423 427	431 947	435 080	425 000	405 000
CPE	420 000	430 000	430 000	420 000	400 000
EC	299 402	316 413	303 009	280 806	279 131
EFTA	0	0	0	0	0
G7	820 000	867 000	991 000	922 000	776 000
MERCOSUR	281 553	210 947	196 750	205 000	205 000
NAFTA	819 537	869 463	988 849	921 810	782 686
OECD	1 254 363	1 340 781	1 495 938	1 335 691	1 172 073
SACD	541	375	78	0	0

FELDSPAR

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	10 567 980	10 552 551	10 475 032	9 342 051	9 406 335
Developing C.	19 040 956	24 263 970	18 904 360	20 853 060	20 086 962
Least Developed C.	26 283	31 700	50 680	28 238	92 172
Transition C.	343 381	390 601	340 582	289 749	278 546
Total	29 978 600	35 238 822	29 770 654	30 513 098	29 864 015

Annual per capita income:

High Income	11 316 780	11 274 235	11 690 887	10 112 614	10 242 545
Upper Middle Inc.	15 657 385	20 266 452	14 379 221	17 234 898	16 050 210
Lower Middle Inc.	3 004 435	3 698 135	3 700 546	3 165 586	3 571 260
Low Income	0	0	0	0	0
Total	29 978 600	35 238 822	29 770 654	30 513 098	29 864 015

Political stability:

Stable	75 124	82 636	81 233	0	0
Fair	10 819 578	11 361 193	11 567 412	10 731 138	10 184 093
Unstable	15 702 292	22 362 759	17 423 571	8 922 648	9 392 871
Extreme Unst.	3 381 606	1 432 234	698 438	10 859 312	10 287 051
Total	29 978 600	35 238 822	29 770 654	30 513 098	29 864 015

Country groups and economic blocks:

ACP	133 621	237 343	217 401	187 002	258 088
ASEAN	2 106 537	2 948 043	3 300 206	3 016 596	2 728 795
BRICS	4 060 618	4 440 282	4 371 678	4 435 184	4 532 872
CPE	2 103 800	2 223 200	2 303 600	2 353 300	2 403 900
EC	9 812 046	9 838 866	9 792 552	8 676 198	8 799 567
EFTA	0	0	1 278	76	0
G7	8 920 499	9 003 705	9 216 646	8 024 326	7 975 000
MERCOSUR	606 163	611 850	732 005	695 727	695 460
NAFTA	940 441	714 484	680 726	679 372	597 213
OECD	20 789 920	24 821 341	19 112 223	20 518 552	19 657 117
SACD	94 458	191 443	102 541	130 184	127 872

FLUORSPAR

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	224 902	244 054	334 482	337 288	204 083
Developing C.	6 459 758	6 104 000	6 422 342	5 442 672	5 794 537
Least Developed C.	950	4 700	4 108	2 000	2 000
Transition C.	129 000	56 200	8 200	8 000	8 000
Total	6 814 610	6 408 954	6 769 132	5 789 960	6 008 620

DATA

Annual per capita income:

High Income	284 202	217 754	246 882	205 388	199 683
Upper Middle Inc.	5 906 107	5 657 914	6 229 305	4 924 093	5 211 914
Lower Middle Inc.	526 801	451 599	283 837	654 479	595 023
Low Income	97 500	81 687	9 108	6 000	2 000
Total	6 814 610	6 408 954	6 769 132	5 789 960	6 008 620

Political stability:

Stable	0	0	0	0	0
Fair	686 981	701 088	782 766	866 588	710 861
Unstable	5 938 028	5 686 540	5 876 702	4 908 274	5 233 270
Extreme Unst.	189 601	21 326	109 664	15 098	64 489
Total	6 814 610	6 408 954	6 769 132	5 789 960	6 008 620

Country groups and economic blocks:

ACP	336 445	295 111	361 194	290 096	222 656
ASEAN	9 602	18 351	100 084	229 095	238 978
BRICS	4 526 578	4 244 174	4 499 050	4 074 333	4 413 175
CPE	4 635 400	4 358 719	4 713 794	4 318 300	4 667 778
EC	224 902	244 054	334 482	337 288	204 083
EFTA	0	0	0	0	0
G7	183 202	120 944	83 100	74 741	69 552
MERCOSUR	60 022	65 679	58 849	59 000	63 000
NAFTA	1 237 091	1 210 477	1 109 721	624 574	655 255
OECD	1 397 490	1 375 905	1 317 674	836 200	865 277
SACD	244 495	223 124	264 038	220 000	180 000

GRAPHITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	39 320	36 676	38 975	40 028	40 652
Developing C.	1 131 981	1 064 079	1 037 420	1 047 761	1 045 119
Least Developed C.	3 629	3 833	5 316	8 100	9 230
Transition C.	20 000	21 000	23 000	25 000	31 000
Total	1 194 930	1 125 588	1 104 711	1 120 889	1 126 001

Annual per capita income:

High Income	46 320	50 676	53 975	40 090	40 652
Upper Middle Inc.	954 130	877 672	880 036	876 597	885 200
Lower Middle Inc.	143 829	156 473	128 531	149 740	138 297
Low Income	50 651	40 767	42 169	54 462	61 852
Total	1 194 930	1 125 588	1 104 711	1 120 889	1 126 001

Political stability:

Stable	7 211	6 407	150	30 000	0
Fair	120 219	30 269	38 825	14 302	44 512
Unstable	932 765	1 088 912	1 057 736	1 066 587	1 069 489
Extreme Unst.	134 735	0	8 000	10 000	12 000
Total	1 194 930	1 125 588	1 104 711	1 120 889	1 126 001

Country groups and economic blocks:

ACP	10 651	10 767	12 169	14 462	14 852
ASEAN	0	0	0	0	0
BRICS	1 056 845	1 002 298	998 738	1 005 601	993 437
CPE	860 000	780 000	810 000	820 000	827 000
EC	7 328	469	667	843	652
EFTA	6 992	6 207	8 308	9 185	10 000
G7	39 109	44 269	30 517	30 398	30 502
MERCOSUR	88 110	91 908	87 026	75 073	72 000
NAFTA	32 520	37 024	39 160	36 524	44 200
OECD	71 340	72 440	51 985	46 614	54 852
SACD	7 022	6 934	12 169	14 462	14 852

GYPSUM AND ANHYDRITE

	2012	2013	2014	2015	2016
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	40 975 304	45 670 573	46 996 944	40 996 568	44 634 554
Developing C.	107 785 663	110 946 704	110 283 728	114 707 768	122 006 064
Least Developed C.	1 549 767	1 975 761	1 975 560	2 158 587	1 657 149
Transition C.	7 547 635	7 811 661	7 212 574	6 273 981	6 342 594
Total	157 858 369	166 404 699	166 468 806	164 136 904	174 640 361

Annual per capita income:

High Income	48 702 548	54 566 131	58 023 348	48 971 197	55 324 857
Upper Middle Inc.	98 683 382	101 763 975	99 490 119	105 834 744	109 856 150
Lower Middle Inc.	9 869 507	9 663 131	8 652 660	8 973 163	9 142 654
Low Income	602 932	411 462	302 679	357 800	316 700
Total	157 858 369	166 404 699	166 468 806	164 136 904	174 640 361

Political stability:

Stable	1 207 257	1 052 308	1 069 892	2 046 216	320 000
Fair	42 468 247	51 022 694	52 681 505	48 706 728	53 330 655
Unstable	86 285 645	97 884 451	108 146 386	100 615 061	106 288 085
Extreme Unst.	27 897 220	16 445 246	4 571 023	12 768 899	14 701 621
Total	157 858 369	166 404 699	166 468 806	164 136 904	174 640 361

Country groups and economic blocks:

ACP	1 502 757	1 540 397	1 603 443	1 244 934	1 111 573
ASEAN	12 943 336	14 492 373	14 119 250	13 240 544	12 562 739
BRICS	50 043 825	49 230 797	50 720 084	55 404 688	60 407 289
CPE	38 136 000	38 092 100	40 097 800	45 090 900	50 073 900
EC	21 792 656	22 255 714	24 830 395	18 398 449	21 417 803
EFTA	415 296	417 009	419 740	397 403	402 386
G7	30 130 906	32 812 398	31 058 134	24 480 236	26 204 608
MERCOSUR	5 186 877	4 887 491	4 951 512	4 954 500	4 954 500
NAFTA	24 806 478	26 257 159	25 036 272	25 427 828	26 365 252
OECD	57 906 082	62 793 267	62 249 585	55 775 899	61 592 261
SACD	771 822	969 183	904 532	614 398	470 989

KAOLIN

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	16 619 669	17 076 139	17 099 567	16 282 001	16 659 630
Developing C.	18 650 314	19 607 366	19 351 801	19 618 795	18 977 484
Least Developed C.	60 087	74 516	103 795	60 917	58 109
Transition C.	1 911 482	1 653 629	1 924 377	2 623 404	3 290 186
Total	37 241 552	38 411 650	38 479 540	38 585 117	38 985 409
Annual per capita income:					
High Income	17 295 599	17 635 530	17 495 718	16 670 520	17 101 841
Upper Middle Inc.	12 343 337	12 718 202	13 567 769	13 179 387	13 146 260
Lower Middle Inc.	7 428 508	8 008 302	7 362 258	8 688 783	8 685 699
Low Income	174 108	49 616	53 795	46 427	51 609
Total	37 241 552	38 411 650	38 479 540	38 585 117	38 985 409
Political stability:					
Stable	25 075	24 624	75 725	13 659	61 650
Fair	20 043 485	18 788 308	17 932 683	17 978 633	18 065 321
Unstable	11 655 016	19 106 755	18 654 694	16 533 791	16 875 387
Extreme Unst.	5 517 976	491 963	1 816 438	4 059 034	3 983 051
Total	37 241 552	38 411 650	38 479 540	38 585 117	38 985 409
Country groups and economic blocks:					
ACP	102 317	121 511	153 053	103 643	106 854
ASEAN	1 858 618	1 809 460	1 753 323	1 737 456	1 723 641
BRICS	12 967 197	13 542 814	12 838 638	13 523 982	13 338 136
CPE	6 904 000	7 203 600	7 501 700	7 681 500	7 892 500
EC	10 615 889	10 702 146	10 605 281	10 072 977	11 259 626
EFTA	0	0	0	0	0
G7	12 018 796	12 538 811	12 323 313	11 370 191	11 614 803
MERCOSUR	2 467 021	2 218 793	2 105 000	1 708 856	1 972 995
NAFTA	6 414 730	6 809 860	6 796 437	6 396 049	5 622 070
OECD	18 445 534	19 192 168	19 814 850	18 606 318	18 451 871
SACD	21 922	23 202	31 067	22 079	23 141

MAGNESITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	3 615 313	3 621 258	3 526 443	3 360 427	2 784 834
Developing C.	19 662 547	20 905 095	22 203 490	22 195 775	22 004 217
Least Developed C.	0	0	225	60	0
Transition C.	1 420 900	1 424 000	1 424 000	1 320 200	1 221 200
Total	24 698 760	25 950 353	27 154 158	26 876 462	26 010 251

DATA

Annual per capita income:

High Income	5 054 313	5 084 658	4 997 443	3 437 427	2 884 834
Upper Middle Inc.	19 232 634	20 458 856	21 657 043	22 921 531	22 593 868
Lower Middle Inc.	261 813	226 839	319 247	363 444	364 549
Low Income	150 000	180 000	180 425	154 060	167 000
Total	24 698 760	25 950 353	27 154 158	26 876 462	26 010 251

Political stability:

Stable	778 810	714 422	766 372	150 000	0
Fair	2 314 564	2 523 836	2 423 803	2 847 197	2 411 894
Unstable	21 232 527	22 705 390	23 960 213	20 539 426	20 298 484
Extreme Unst.	372 859	6 705	3 770	3 339 839	3 299 873
Total	24 698 760	25 950 353	27 154 158	26 876 462	26 010 251

Country groups and economic blocks:

ACP	12 878	8 219	10 000	10 000	28 000
ASEAN	4 822	5 998	6 200	6 200	6 200
BRICS	18 116 497	19 162 590	20 675 009	19 627 663	19 356 067
CPE	16 150 000	17 180 000	18 610 200	17 594 000	17 007 000
EC	2 872 513	2 963 891	2 785 488	2 547 215	2 165 379
EFTA	0	0	0	0	0
G7	1 550 000	1 550 000	150 000	150 000	150 000
MERCOSUR	479 304	557 431	550 000	550 000	1 000 000
NAFTA	250 724	251 000	250 000	251 000	251 000
OECD	6 191 865	6 319 723	6 003 600	6 796 685	6 144 279
SACD	12 878	8 219	10 000	10 000	28 000

PERLITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	1 367 934	1 409 324	1 497 078	1 434 945	1 491 030
Developing C.	1 024 574	1 217 407	1 061 485	980 754	1 165 524
Least Developed C.	0	0	0	0	0
Transition C.	45 000	122 784	129 904	102 657	89 820
Total	2 437 508	2 749 515	2 688 467	2 518 356	2 746 374

Annual per capita income:

High Income	1 342 934	1 428 100	1 565 558	1 437 945	1 496 530
Upper Middle Inc.	1 085 353	1 229 382	1 020 871	1 005 754	1 188 024
Lower Middle Inc.	9 221	92 033	102 038	74 657	61 820
Low Income	0	0	0	0	0
Total	2 437 508	2 749 515	2 688 467	2 518 356	2 746 374

Political stability:

Stable	3 598	0	0	0	0
Fair	512 603	626 645	535 230	570 557	599 120
Unstable	1 891 307	2 108 577	2 153 237	1 104 557	1 064 003
Extreme Unst.	30 000	14 293	0	843 242	1 083 251
Total	2 437 508	2 749 515	2 688 467	2 518 356	2 746 374

Country groups and economic blocks:

ACP	1 740	1 078	1 000	1 000	1 000
ASEAN	50 621	28 542	71 234	34 200	32 690
BRICS	46 740	46 078	46 000	46 000	46 000
CPE	0	0	0	0	0
EC	970 396	937 024	1 035 078	946 945	977 410
EFTA	0	0	0	0	0
G7	438 000	516 000	462 000	488 000	513 000
MERCOSUR	24 663	24 737	22 680	23 282	24 000
NAFTA	422 950	498 200	488 000	501 000	532 000
OECD	2 285 484	2 517 273	2 421 003	2 294 187	2 581 781
SACD	1 740	1 078	1 000	1 000	1 000

PHOSPHATES (P₂O₅-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	10 549 360	10 818 940	8 959 870	9 506 835	9 405 544
Developing C.	51 300 253	57 886 992	60 265 337	67 027 162	68 022 962
Least Developed C.	908 960	1 010 994	868 680	1 058 340	1 200 400
Transition C.	4 493 600	4 660 500	5 218 010	5 077 900	5 354 600
Total	67 252 173	74 377 426	75 311 897	82 670 237	83 983 506

Annual per capita income:

High Income	14 760 330	15 282 130	14 090 500	10 527 405	10 487 284
Upper Middle Inc.	40 311 780	46 158 195	48 548 577	58 619 112	56 950 532
Lower Middle Inc.	11 671 413	12 173 227	12 018 960	12 370 380	15 250 290
Low Income	508 650	763 874	653 860	1 153 340	1 295 400
Total	67 252 173	74 377 426	75 311 897	82 670 237	83 983 506

Political stability:

Stable	308 900	315 800	340 640	0	0
Fair	12 567 070	10 474 860	8 128 630	9 416 515	9 598 924
Unstable	52 135 033	61 426 026	65 123 977	71 398 492	72 392 552
Extreme Unst.	2 241 170	2 160 740	1 718 650	1 855 230	1 992 030
Total	67 252 173	74 377 426	75 311 897	82 670 237	83 983 506

Country groups and economic blocks:

ACP	1 866 400	1 893 894	1 630 580	1 752 340	1 834 000
ASEAN	714 813	801 067	746 110	881 520	859 320
BRICS	36 120 400	40 237 010	44 451 360	50 288 550	51 032 250
CPE	29 392 940	33 444 830	36 967 670	43 583 720	44 269 220
EC	308 900	315 800	340 640	344 360	338 230
EFTA	0	0	0	0	0
G7	12 490 000	13 025 000	7 110 000	7 710 000	7 615 000
MERCOSUR	2 430 430	2 533 780	2 531 030	2 174 370	2 017 500
NAFTA	9 107 400	9 647 435	7 630 040	8 288 830	8 603 280
OECD	10 926 070	11 561 315	9 513 180	10 128 035	10 479 244
SACD	797 950	973 160	868 160	699 430	601 100

POTASH (K₂O-CONTENT)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	16 064 876	17 415 863	17 932 132	17 817 017	17 187 841
Developing C.	6 411 649	6 871 722	7 604 161	9 255 210	9 538 380
Least Developed C.	26 600	82 500	189 400	255 100	198 600
Transition C.	10 446 000	10 375 300	13 696 360	13 411 000	12 743 100
Total	32 949 125	34 745 385	39 422 053	40 738 327	39 667 921
Annual per capita income:					
High Income	22 624 376	24 657 253	26 360 112	18 996 577	18 491 681
Upper Middle Inc.	10 190 149	9 921 032	12 776 181	21 383 650	19 672 500
Lower Middle Inc.	134 600	167 100	285 760	358 100	1 503 740
Low Income	0	0	0	0	0
Total	32 949 125	34 745 385	39 422 053	40 738 327	39 667 921
Political stability:					
Stable	0	0	0	11 461 530	0
Fair	19 850 525	21 041 153	23 798 912	12 977 147	22 777 281
Unstable	13 098 600	13 704 232	15 623 141	16 299 650	16 890 640
Extreme Unst.	0	0	0	0	0
Total	32 949 125	34 745 385	39 422 053	40 738 327	39 667 921
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	26 600	82 500	189 400	255 100	198 600
BRICS	9 753 509	10 658 892	11 971 021	12 847 000	12 563 000
CPE	3 900 000	4 300 000	4 400 000	5 714 000	5 783 000
EC	4 244 976	4 366 473	4 433 577	4 334 487	3 826 372
EFTA	0	0	0	0	0
G7	19 100 916	20 859 291	15 394 868	15 868 058	14 422 495
MERCOSUR	346 509	310 892	311 021	293 000	300 000
NAFTA	9 876 000	11 156 090	11 667 955	12 201 530	11 268 369
OECD	17 117 376	18 609 253	19 100 112	18 996 577	18 491 681
SACD	0	0	0	0	0

SALT

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	114 941 661	123 482 008	125 434 847	123 412 298	115 288 807
Developing C.	149 028 812	140 697 767	151 898 997	149 593 124	147 561 996
Least Developed C.	3 079 664	3 129 991	3 275 906	2 865 818	3 217 254
Transition C.	13 279 137	13 020 748	10 405 293	10 399 543	10 597 143
Total	280 329 274	280 330 514	291 015 043	286 270 783	276 665 200

DATA

Annual per capita income:

High Income	124 439 752	132 105 627	141 017 729	133 511 840	120 705 298
Upper Middle Inc.	112 357 159	107 103 926	107 081 941	108 911 645	111 084 300
Lower Middle Inc.	40 353 419	37 890 763	41 421 602	42 240 039	43 285 256
Low Income	3 178 944	3 230 198	1 493 771	1 607 259	1 590 346

Total	280 329 274	280 330 514	291 015 043	286 270 783	276 665 200
-------	-------------	-------------	-------------	-------------	-------------

Political stability:

Stable	1 552 387	1 766 810	1 653 809	14 869 273	582 000
Fair	132 479 166	136 344 454	141 651 288	127 696 483	123 675 449
Unstable	110 675 755	133 040 551	139 684 488	130 610 772	137 972 337
Extreme Unst.	35 621 966	9 178 699	8 025 458	13 094 255	14 435 414

Total	280 329 274	280 330 514	291 015 043	286 270 783	276 665 200
-------	-------------	-------------	-------------	-------------	-------------

Country groups and economic blocks:

ACP	3 626 692	4 171 159	4 821 023	4 309 254	3 743 489
ASEAN	5 104 910	4 250 315	5 722 453	5 972 089	4 109 926
BRICS	104 732 705	98 382 791	103 557 949	99 787 859	104 894 569
CPE	70 612 561	66 046 279	65 988 752	61 597 586	64 776 678
EC	51 686 161	55 847 279	50 507 719	50 268 164	50 153 118
EFTA	523 200	591 400	439 500	481 900	482 000
G7	82 983 560	90 209 085	88 542 854	88 666 834	81 454 304
MERCOSUR	9 986 845	9 435 453	9 611 051	9 642 000	9 840 000
NAFTA	58 153 570	62 235 709	69 982 070	69 104 400	62 075 385
OECD	134 342 032	141 801 236	146 779 425	146 164 627	133 348 500
SACD	1 765 884	2 024 329	2 136 271	2 101 179	2 234 145

SULFUR

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	24 934 208	25 124 928	24 755 681	24 209 243	23 830 722
Developing C.	30 503 959	32 070 729	34 856 390	34 282 749	33 447 874
Least Developed C.	310 000	310 000	300 000	300 000	363 000
Transition C.	9 722 900	10 171 000	10 886 205	10 600 400	10 338 500

Total	65 471 067	67 676 657	70 798 276	69 392 392	67 980 096
-------	------------	------------	------------	------------	------------

Annual per capita income:

High Income	43 322 894	44 326 720	46 204 121	38 047 618	37 811 512
Upper Middle Inc.	18 737 609	19 897 202	20 816 575	26 465 144	24 808 315
Lower Middle Inc.	3 368 564	3 410 735	3 735 580	4 837 630	5 318 269
Low Income	42 000	42 000	42 000	42 000	42 000

Total	65 471 067	67 676 657	70 798 276	69 392 392	67 980 096
-------	------------	------------	------------	------------	------------

Political stability:

Stable	950 329	967 789	853 280	5 745 000	0
Fair	32 585 768	33 283 831	36 578 096	26 992 338	34 843 882
Unstable	27 356 416	33 033 357	32 997 228	36 226 724	31 593 945
Extreme Unst.	4 578 554	391 680	369 672	428 330	1 542 269

Total	65 471 067	67 676 657	70 798 276	69 392 392	67 980 096
-------	------------	------------	------------	------------	------------

Abbreviations: see Explanation

Country groups and economic blocks:

ACP	567 019	580 173	577 018	584 381	643 830
ASEAN	539 300	565 500	624 800	1 566 400	1 674 400
BRICS	19 666 823	20 393 798	22 681 826	20 275 481	19 848 330
CPE	9 942 000	10 542 000	12 042 000	10 042 000	9 192 000
EC	5 307 958	5 159 228	4 741 081	4 493 343	4 245 922
EFTA	110 000	130 000	130 000	110 000	110 000
G7	27 602 507	27 983 240	20 966 746	20 515 297	20 343 184
MERCOSUR	1 319 000	1 360 000	1 340 000	1 230 000	1 230 000
NAFTA	16 270 900	16 541 259	16 474 939	16 143 527	15 730 285
OECD	29 125 058	29 382 087	29 088 520	28 566 270	28 095 987
SACD	567 019	580 173	577 018	584 381	643 830

TALC

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	2 202 050	2 267 183	2 345 065	2 367 534	2 314 778
Developing C.	5 352 492	5 838 306	5 639 746	5 132 203	5 016 801
Least Developed C.	22 998	14 724	18 304	14 062	8 371
Transition C.	160 286	160 621	150 483	150 598	150 715
Total	7 737 826	8 280 834	8 153 598	7 664 397	7 490 665

Annual per capita income:

High Income	2 876 673	2 961 862	3 155 907	2 979 512	2 949 475
Upper Middle Inc.	3 488 729	3 981 820	3 895 285	3 556 461	3 384 101
Lower Middle Inc.	1 315 489	1 282 012	1 046 703	1 073 169	1 115 229
Low Income	56 935	55 140	55 703	55 255	41 860
Total	7 737 826	8 280 834	8 153 598	7 664 397	7 490 665

Political stability:

Stable	538 980	496 654	511 929	175 000	0
Fair	2 660 027	2 332 792	2 500 062	2 827 319	2 483 736
Unstable	3 119 107	5 260 116	5 032 585	4 336 133	4 643 480
Extreme Unst.	1 419 712	191 272	109 022	325 945	363 449
Total	7 737 826	8 280 834	8 153 598	7 664 397	7 490 665

Country groups and economic blocks:

ACP	23 499	22 303	27 327	24 849	27 826
ASEAN	40 856	34 700	57 308	52 268	103 926
BRICS	4 062 784	4 087 749	3 943 517	3 991 849	3 873 576
CPE	2 250 000	2 250 000	2 250 000	2 250 000	2 040 000
EC	1 100 665	1 075 183	1 150 078	1 087 534	1 101 778
EFTA	7 983	0	0	0	0
G7	1 713 667	1 812 181	1 694 894	1 785 430	1 733 500
MERCOSUR	483 485	617 552	669 838	725 585	774 290
NAFTA	1 108 214	1 563 813	1 452 064	810 452	749 392
OECD	3 270 527	3 744 609	3 839 905	3 173 579	3 121 631
SACD	23 499	22 303	27 327	21 849	23 576

VERMICULITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	115 256	115 291	106 200	106 000	106 000
Developing C.	309 014	285 075	300 800	317 571	315 802
Least Developed C.	51 962	2 296	2 661	1 213	3 295
Transition C.	21 800	20 900	21 000	21 000	20 000
Total	498 032	423 562	430 661	445 784	445 097

Annual per capita income:

High Income	137 056	136 191	127 200	106 000	106 000
Upper Middle Inc.	276 892	241 266	251 593	281 014	296 843
Lower Middle Inc.	10 040	14 601	18 467	26 689	9 643
Low Income	74 044	31 504	33 401	32 081	32 611
Total	498 032	423 562	430 661	445 784	445 097

Political stability:

Stable	0	0	0	0	0
Fair	167 562	115 291	106 200	106 000	106 000
Unstable	318 773	305 521	321 321	336 359	334 947
Extreme Unst.	11 697	2 750	3 140	3 425	4 150
Total	498 032	423 562	430 661	445 784	445 097

Country groups and economic blocks:

ACP	206 930	159 162	176 848	170 781	199 194
ASEAN	0	0	0	0	0
BRICS	304 619	270 788	285 778	302 569	301 026
CPE	90 000	50 000	50 000	50 000	50 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	127 800	127 100	106 200	106 000	106 000
MERCOSUR	52 306	60 379	56 444	70 000	58 000
NAFTA	100 500	100 425	100 226	100 299	100 310
OECD	115 756	117 320	107 142	106 724	107 360
SACD	154 511	156 466	173 747	169 158	195 799

ZIRCON

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	690 000	466 000	817 826	747 326	609 800
Developing C.	695 569	497 293	636 531	649 473	602 488
Least Developed C.	78 754	65 695	89 531	110 937	134 077
Transition C.	36 969	49 504	42 930	38 180	36 984
Total	1 501 292	1 078 492	1 586 818	1 545 916	1 383 349

DATA

Annual per capita income:

High Income	697 969	474 504	825 756	747 326	609 800
Upper Middle Inc.	538 257	399 512	563 537	571 926	503 397
Lower Middle Inc.	186 312	138 781	117 034	115 727	136 075
Low Income	78 754	65 695	80 491	110 937	134 077

Total	1 501 292	1 078 492	1 586 818	1 545 916	1 383 349
-------	-----------	-----------	-----------	-----------	-----------

Political stability:

Stable	0	0	0	0	0
Fair	783 325	492 379	818 503	756 766	623 870
Unstable	695 948	584 586	717 277	755 825	689 121
Extreme Unst.	22 019	1 527	51 038	33 325	70 358

Total	1 501 292	1 078 492	1 586 818	1 545 916	1 383 349
-------	-----------	-----------	-----------	-----------	-----------

Country groups and economic blocks:

ACP	446 838	291 668	503 670	536 133	545 195
ASEAN	135 442	75 779	37 407	39 726	44 753
BRICS	566 709	428 263	588 581	588 037	520 244
CPE	176 000	176 000	155 730	148 000	109 300
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	92 969	86 504	65 000	60 000	50 000
MERCOSUR	20 425	24 687	23 659	24 000	24 000
NAFTA	85 000	78 000	65 000	60 000	50 000
OECD	690 200	466 000	818 926	748 826	610 300
SACD	414 090	255 846	476 176	461 720	450 990

6.3.5 MINERAL FUELS

STEAM COAL

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	1 112 804 117	1 097 824 387	1 123 483 339	1 051 771 013	899 720 319
Developing C.	4 369 171 618	4 443 902 172	4 361 853 487	4 299 802 735	4 012 976 395
Least Developed C.	5 533 451	6 098 834	6 613 605	5 388 359	6 412 480
Transition C.	351 934 084	350 802 000	336 495 380	326 114 091	335 851 675
Total	5 839 443 270	5 898 627 393	5 828 445 811	5 683 076 198	5 254 960 869

Annual per capita income:

High Income	1 321 759 631	1 307 371 431	1 341 966 464	1 056 677 189	903 919 636
Upper Middle Inc.	3 417 148 894	3 443 731 809	3 315 994 773	3 468 023 187	3 159 547 293
Lower Middle Inc.	1 061 853 445	1 108 897 556	1 129 654 700	1 115 536 869	1 149 539 740
Low Income	38 681 300	38 626 597	40 829 874	42 838 953	41 954 200

Total	5 839 443 270	5 898 627 393	5 828 445 811	5 683 076 198	5 254 960 869
-------	---------------	---------------	---------------	---------------	---------------

Political stability:

Stable	3 851 655	4 251 522	1 901 000	28 691 000	1 359 000
Fair	1 168 954 781	1 157 103 812	1 235 705 422	1 078 601 916	1 032 276 041
Unstable	4 072 267 634	4 651 375 024	4 552 220 330	4 545 488 243	4 175 863 661
Extreme Unst.	594 369 200	85 897 035	38 619 059	30 295 039	45 462 167

Total	5 839 443 270	5 898 627 393	5 828 445 811	5 683 076 198	5 254 960 869
-------	---------------	---------------	---------------	---------------	---------------

Abbreviations: see Explanation

Country groups and economic blocks:

ACP	263 729 407	260 552 045	267 957 426	264 287 229	261 641 662
ASEAN	500 144 077	541 637 513	540 225 328	505 733 472	513 171 573
BRICS	3 921 588 590	3 955 784 596	3 872 605 466	3 865 641 350	3 576 427 835
CPE	3 034 161 000	3 067 744 000	2 933 289 000	2 893 380 000	2 569 834 000
EC	99 259 462	87 365 865	82 029 262	75 877 631	67 024 978
EFTA	1 325 655	2 067 522	1 701 077	1 203 382	960 341
G7	1 021 277 800	990 583 807	805 055 800	728 169 600	585 965 900
MERCOSUR	5 436 391	6 250 055	5 365 406	4 473 547	4 491 895
NAFTA	807 584 051	782 671 353	803 349 540	724 436 620	588 105 459
OECD	1 131 438 682	1 117 586 784	1 144 588 064	1 065 694 809	913 867 095
SACD	263 431 925	260 269 893	267 574 023	263 921 325	260 405 876

COKING COAL

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	284 184 470	294 785 510	308 484 820	296 865 920	285 275 600
Developing C.	631 971 046	679 340 314	697 486 723	680 406 278	692 841 135
Least Developed C.	2 991 794	3 556 776	3 784 603	4 786 612	3 862 959
Transition C.	106 535 000	107 031 000	106 503 000	105 983 900	100 806 800
Total	1 025 682 310	1 084 713 600	1 116 259 146	1 088 042 710	1 082 786 494

Annual per capita income:

High Income	356 884 470	369 185 510	384 784 820	296 865 920	285 275 600
Upper Middle Inc.	579 339 046	625 864 314	656 502 723	704 884 278	701 194 135
Lower Middle Inc.	86 037 000	85 658 000	70 765 000	81 079 900	92 024 800
Low Income	3 421 794	4 005 776	4 206 603	5 212 612	4 291 959
Total	1 025 682 310	1 084 713 600	1 116 259 146	1 088 042 710	1 082 786 494

Political stability:

Stable	2 075 000	2 152 000	1 760 000	27 880 000	1 213 000
Fair	294 440 264	299 566 510	330 795 820	282 129 920	317 402 600
Unstable	671 742 046	778 102 090	771 406 326	771 201 890	756 930 094
Extreme Unst.	57 425 000	4 893 000	12 297 000	6 830 900	7 240 800
Total	1 025 682 310	1 084 713 600	1 116 259 146	1 088 042 710	1 082 786 494

Country groups and economic blocks:

ACP	4 987 794	7 359 776	7 438 603	8 190 612	7 758 959
ASEAN	4 237 000	2 244 000	1 022 000	985 000	1 013 000
BRICS	681 543 000	735 266 000	756 742 000	739 812 000	740 926 000
CPE	565 034 000	607 627 000	625 929 000	606 191 000	614 840 000
EC	22 779 470	21 219 310	21 212 820	20 408 920	18 155 600
EFTA	0	0	0	0	0
G7	191 363 200	190 855 700	109 731 100	87 736 100	78 699 900
MERCOSUR	0	0	0	0	0
NAFTA	114 552 046	114 136 314	107 778 600	86 507 408	82 156 135
OECD	287 463 516	297 818 824	311 907 420	300 072 328	291 558 735
SACD	4 987 794	7 359 776	7 438 603	8 190 612	7 758 959

LIGNITE

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	589 148 438	567 988 599	543 973 099	540 160 225	509 729 244
Developing C.	151 454 040	139 508 597	140 983 501	126 336 554	132 002 818
Least Developed C.	637 387	445 925	76 320	4 518 068	13 139 121
Transition C.	158 010 002	151 983 642	137 572 856	150 174 026	150 990 138
Total	899 249 867	859 926 763	822 605 776	821 188 873	805 861 321

Annual per capita income:

High Income	590 661 238	578 772 599	557 872 999	480 895 225	457 455 044
Upper Middle Inc.	237 384 845	213 354 846	199 946 660	269 778 586	265 773 908
Lower Middle Inc.	65 642 784	64 415 318	61 045 117	67 985 062	79 394 369
Low Income	5 561 000	3 384 000	3 741 000	2 530 000	3 238 000
Total	899 249 867	859 926 763	822 605 776	821 188 873	805 861 321

Political stability:

Stable	325 900	290 400	316 692	8 749 086	313 035
Fair	536 538 856	520 624 659	543 178 885	534 400 078	540 278 660
Unstable	315 932 111	320 900 941	279 110 199	221 690 009	208 419 626
Extreme Unst.	46 453 000	18 110 763	0	56 349 700	56 850 000
Total	899 249 867	859 926 763	822 605 776	821 188 873	805 861 321

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	18 703 816	18 556 688	18 058 042	19 668 617	30 117 722
BRICS	127 716 144	121 609 734	120 587 779	120 151 305	122 104 217
CPE	11 290 000	9 672 000	9 814 000	8 285 000	9 570 000
EC	440 994 538	415 668 199	402 276 407	401 120 039	370 359 409
EFTA	0	0	0	0	0
G7	344 630 000	335 725 000	258 835 000	251 420 100	247 032 300
MERCOSUR	3 163 144	3 638 734	3 417 779	2 709 305	3 480 217
NAFTA	81 098 000	79 030 000	80 680 000	73 355 100	75 485 800
OECD	594 340 205	578 441 399	550 472 999	537 244 925	514 305 044
SACD	0	0	0	0	0

NATURAL GAS

	2012 Mio m ³	2013 Mio m ³	2014 Mio m ³	2015 Mio m ³	2016 Mio m ³
Development status:					
Developed C.	1 173 682	1 180 910	1 225 239	1 263 517	1 273 819
Developing C.	1 387 686	1 410 540	1 437 911	1 459 167	1 479 897
Least Developed C.	46 701	51 330	57 071	53 807	54 447
Transition C.	859 892	872 532	859 509	854 972	864 441
Total	3 467 961	3 515 312	3 579 730	3 631 463	3 672 604

DATA

Annual per capita income:

High Income	2 247 753	2 290 698	2 369 882	1 715 260	1 731 410
Upper Middle Inc.	784 521	803 551	780 475	1 485 630	1 517 110
Lower Middle Inc.	397 315	380 224	424 521	425 354	418 738
Low Income	38 372	40 839	4 852	5 219	5 346

Total	3 467 961	3 515 312	3 579 730	3 631 463	3 672 604
-------	-----------	-----------	-----------	-----------	-----------

Political stability:

Stable	120 729	114 652	18 132	158 874	16 088
Fair	1 506 552	1 574 193	1 751 752	1 536 327	1 739 193
Unstable	1 339 840	1 571 853	1 626 781	1 757 512	1 744 226
Extreme Unst.	500 840	254 614	183 065	178 750	173 097

Total	3 467 961	3 515 312	3 579 730	3 631 463	3 672 604
-------	-----------	-----------	-----------	-----------	-----------

Country groups and economic blocks:

ACP	95 068	88 933	99 312	107 261	99 107
ASEAN	220 546	222 974	227 898	224 408	225 548
BRICS	824 341	848 277	831 311	828 533	834 840
CPE	117 540	131 675	141 567	146 515	148 625
EC	163 766	165 133	149 996	134 092	130 714
EFTA	114 723	108 746	108 824	117 117	116 654
G7	1 543 204	1 558 081	942 202	980 012	970 983
MERCOSUR	88 055	86 968	88 626	93 772	97 897
NAFTA	882 180	889 015	941 531	974 748	959 369
OECD	1 221 902	1 227 969	1 270 987	1 306 211	1 311 141
SACD	5 803	6 084	6 491	7 132	7 880

PETROLEUM

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
--	-----------------	-----------------	-----------------	-----------------	-----------------

Development status:

Developed C.	741 608 516	795 381 387	887 526 673	939 528 354	917 843 382
Developing C.	2 522 376 146	2 464 577 948	2 456 239 119	2 547 353 440	2 574 743 049
Least Developed C.	124 194 100	129 432 330	124 674 770	125 073 260	121 333 260
Transition C.	663 030 133	670 414 817	671 327 758	676 900 390	687 889 054

Total	4 051 208 895	4 059 806 482	4 139 768 320	4 288 855 444	4 301 808 745
-------	---------------	---------------	---------------	---------------	---------------

Annual per capita income:

High Income	2 264 687 054	2 317 004 814	2 580 962 721	1 962 688 353	1 970 267 162
Upper Middle Inc.	1 467 655 792	1 433 829 921	1 266 057 486	2 022 448 750	1 967 605 554
Lower Middle Inc.	308 784 800	300 919 717	278 081 143	288 508 981	350 660 309
Low Income	10 081 249	8 052 030	14 666 970	15 209 360	13 275 720

Total	4 051 208 895	4 059 806 482	4 139 768 320	4 288 855 444	4 301 808 745
-------	---------------	---------------	---------------	---------------	---------------

Political stability:

Stable	91 266 549	86 857 158	8 946 492	194 783 600	7 510 250
Fair	1 292 044 765	1 277 419 515	1 493 410 530	1 157 726 804	1 393 036 856
Unstable	1 932 375 821	2 258 839 676	2 289 507 833	2 552 837 185	2 516 104 606
Extreme Unst.	735 521 760	436 690 133	347 903 465	383 507 855	385 157 033

Total	4 051 208 895	4 059 806 482	4 139 768 320	4 288 855 444	4 301 808 745
-------	---------------	---------------	---------------	---------------	---------------

Country groups and economic blocks:

ACP	274 229 624	270 369 371	255 160 381	274 815 087	253 411 316
ASEAN	109 953 681	106 235 793	106 257 640	110 495 220	107 307 770
BRICS	870 859 881	876 330 354	892 442 203	910 935 878	913 183 336
CPE	227 711 900	230 220 700	232 736 400	237 306 800	220 580 100
EC	71 652 666	68 212 787	67 092 533	71 586 064	70 495 612
EFTA	88 482 600	84 299 800	86 345 200	88 922 200	91 345 400
G7	1 127 828 142	1 194 960 159	760 516 319	813 005 663	791 942 548
MERCOSUR	274 035 600	269 916 000	281 816 300	288 262 200	279 690 300
NAFTA	699 485 070	762 853 130	847 745 760	885 568 300	858 009 980
OECD	883 983 653	935 169 751	1 022 701 706	1 065 058 846	1 037 409 850
SACD	88 235 381	88 584 184	84 292 773	89 960 838	89 069 746

OIL SANDS (PART OF PETROLEUM)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	88 840 500	96 561 400	107 547 300	117 897 700	120 401 200
Developing C.	30 738 000	29 880 000	30 100 000	29 980 000	29 000 000
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	119 578 500	126 441 400	137 647 300	147 877 700	149 401 200

Annual per capita income:

High Income	88 840 500	96 561 400	137 647 300	117 897 700	120 401 200
Upper Middle Inc.	30 738 000	29 880 000	0	29 980 000	29 000 000
Lower Middle Inc.	0	0	0	0	0
Low Income	0	0	0	0	0
Total	119 578 500	126 441 400	137 647 300	147 877 700	149 401 200

Political stability:

Stable	0	0	0	117 897 700	0
Fair	88 840 500	96 561 400	107 547 300	0	120 401 200
Unstable	30 738 000	29 880 000	30 100 000	29 980 000	29 000 000
Extreme Unst.	0	0	0	0	0
Total	119 578 500	126 441 400	137 647 300	147 877 700	149 401 200

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	88 840 500	96 561 400	107 547 300	117 897 700	120 401 200
MERCOSUR	30 738 000	29 880 000	30 100 000	29 980 000	29 000 000
NAFTA	88 840 500	96 561 400	107 547 300	117 897 700	120 401 200
OECD	88 840 500	96 561 400	107 547 300	117 897 700	120 401 200
SACD	0	0	0	0	0

OIL SHALES

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646
Developing C.	0	0	0	0	0
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646
Annual per capita income:					
High Income	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646
Upper Middle Inc.	0	0	0	0	0
Lower Middle Inc.	0	0	0	0	0
Low Income	0	0	0	0	0
Total	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646
Political stability:					
Stable	540	173	203	0	0
Fair	19 277 825	20 954 580	21 503 693	20 086 538	16 350 646
Unstable	423 000	420 900	395 600	420 100	425 000
Extreme Unst.	0	0	0	0	0
Total	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646
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	19 278 365	20 954 753	21 503 896	20 086 538	16 352 646
EFTA	0	0	0	0	0
G7	481 825	443 580	508 693	470 470	494 777
MERCOSUR	0	0	0	0	0
NAFTA	0	0	0	0	0
OECD	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646
SACD	0	0	0	0	0

URANIUM (U₃O₈)

	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t
Development status:					
Developed C.	21 804	21 054	20 095	24 094	25 604
Developing C.	8 215	8 027	6 850	6 465	7 223
Least Developed C.	6 983	6 329	5 336	4 852	4 101
Transition C.	33 194	35 226	35 548	36 930	37 931
Total	70 196	70 636	67 829	72 341	74 859

DATA

Annual per capita income:

High Income	25 085	24 657	23 530	24 003	25 545
Upper Middle Inc.	32 951	34 134	33 354	37 723	39 431
Lower Middle Inc.	5 177	5 516	5 609	5 763	5 782
Low Income	6 983	6 329	5 336	4 852	4 101

Total	70 196	70 636	67 829	72 341	74 859
-------	--------	--------	--------	--------	--------

Political stability:

Stable	0	0	0	15 659	0
Fair	27 192	25 932	51 289	11 908	59 025
Unstable	42 497	39 662	15 395	43 565	14 596
Extreme Unst.	507	5 042	1 145	1 209	1 238

Total	70 196	70 636	67 829	72 341	74 859
-------	--------	--------	--------	--------	--------

Country groups and economic blocks:

ACP	12 539	11 833	9 843	8 853	8 859
ASEAN	0	0	0	0	0
BRICS	6 544	6 798	6 484	6 541	6 405
CPE	1 769	1 769	1 769	1 906	1 906
EC	431	400	329	251	263
EFTA	0	0	0	0	0
G7	16 556	16 845	13 795	17 177	18 042
MERCOSUR	383	234	67	51	52
NAFTA	13 106	13 116	13 752	17 175	17 989
OECD	21 698	20 960	20 004	24 003	25 545
SACD	6 854	6 839	4 942	4 001	4 758

6.4 PRODUCTION OF MINERAL RAW MATERIALS OF INDIVIDUAL COUNTRIES, BY MINERALS

6.4.1 IRON AND FERRO-ALLOY METALS

IRON (FE-CONTENT)

Country	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	842 400	594 000	492 010	509 800	329 400	1e
Argentina	332 470	298 190	224 840	206 060	107 280	1n
Australia	321 952 505	377 760 029	457 409 154	500 993 637	531 075 350	1e
Austria	685 522	743 463	779 736	890 665	888 723	1e
Azerbaijan	87 066	59 388	38 390	53 590	10 710	1e
Bhutan	2 400	13 100	12 200	27 650	17 960	1e
Bosnia-Herzegovina	1 058 620	1 492 840	1 499 950	1 082 630	893 420	1e
Brazil	258 129 700	245 667 800	244 754 400	253 660 900	271 275 900	1e
Canada	23 724 100	25 658 400	26 335 400	28 194 100	25 941 900	1e
Chile	9 429 000	9 088 000	9 427 640	9 147 839	9 008 873	1e
China	353 602 000	391 773 000	404 379 000	371 250 000	345 841 000	1e
Colombia	364 150	319 520	304 280	405 780	322 060	1e
Egypt	1 768 500	192 000	639 900	763 700	765 000	2n
Germany	46 990	59 900	66 900	71 900	74 500	1e
Guatemala	4 540	330	850	7 310	8 210	1e
India	91 534 060	101 962 610	84 058 650	102 770 200	124 852 650	1e
Indonesia	6 350 200	12 294 300	3 273 300	2 111 200	2 300 000	2n
Iran	21 085 200	25 329 500	25 709 416	25 797 898	21 623 000	1e
Kazakhstan	16 827 530	16 398 330	15 965 110	11 122 150	10 632 570	1e
Kenya	43 700	93 000	0	0	0	1e
Korea, North	1 450 000	865 000	963 600	579 300	600 000	2n
Korea, South	355 650	397 830	415 960	267 190	266 810	1e
Laos	121 630	560 950	680 840	140 850	69 040	1e
Liberia	1 184 900	2 474 000	2 952 800	2 717 700	843 100	1e
Malaysia	6 858 190	7 644 580	6 057 650	1 015 450	1 163 840	1e
Mauritania	7 272 900	8 491 300	8 648 800	7 544 600	8 624 200	1e
Mexico	8 949 565	11 303 740	9 976 750	8 077 160	7 253 810	1a
Mongolia	4 536 840	3 366 270	5 745 880	3 704 040	3 407 480	1e
Morocco	93 850	108 400	8 250	6 430	5 510	1e
Namibia			0	2 680	5 680	1e
New Zealand	1 389 000	1 830 850	1 882 310	1 852 360	2 027 560	1e
Nigeria	29 400	21 000	20 000	20 000	700	1e
Norway	2 189 200	2 181 300	2 466 600	2 252 200	1 425 000	1e
Pakistan	146 260	156 600	74 890	124 990	164 220	1a
Peru	4 545 490	4 542 850	4 890 960	4 978 150	5 210 920	1e
Philippines	688 900	634 000	92 300	64 300	3 900	1e
Russia	57 200 000	56 100 000	56 155 000	55 550 000	55 550 000	1e
Saudi Arabia	355 300	231 800	243 400	254 900	254 200	1e
Sierra Leone	3 018 024	6 172 710	10 259 610	1 521 830	3 814 410	1e
South Africa	43 615 310	46 569 090	52 493 570	47 323 600	43 196 310	1e
Sudan	33 740	118 790	16 300	0	0	1e
Swaziland	516 120	629 280	301 630	0	0	1e
Sweden	16 985 600	17 462 400	18 035 840	15 886 720	17 216 000	1e
Thailand	188 000	241 560	215 710	10 220	0	1e
Tunisia	116 300	132 100	179 200	153 700	159 500	2e
Turkey	3 329 800	5 239 500	7 251 200	4 734 200	4 353 700	1a

Abbreviations: see Explanation

DATA

Uganda	2 659	1 369	25 175	5 400	1 280	1e
Ukraine	42 975 400	45 056 000	43 712 000	42 817 200	40 240 600	1e
United States	34 461 000	33 264 000	35 343 000	29 043 000	26 334 000	1e
Uruguay	9 500	9 978	15 050	11 520	1 040	1e
Venezuela	10 012 000	7 278 800	7 318 100	7 615 100	5 070 000	1n
Vietnam	903 720	1 497 180	1 631 400	1 614 600	1 892 400	3e
Total	1 361 404 901	1 474 380 927	1 553 444 901	1 548 956 399	1 575 123 716	

CHROMIUM (CR₂O₃ - CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Afghanistan	2 520	2 500	2 200	2 500	2 000	2n
Albania	156 600	228 900	309 900	284 100	316 200	1e
Australia	138 500	94 200	10 519	0	0	1e
Brazil	184 275	189 521	244 622	265 200	265 000	2n
China	59 000	50 400	14 400	17 600	12 200	1e
Finland	229 000	434 000	441 300	457 100	469 140	1e
Greece	576	0	0	0	0	1a
India	1 303 600	1 324 000	995 500	1 341 200	1 714 800	1e
Iran	192 210	191 100	157 953	142 810	162 100	1a
Kazakhstan	1 909 900	2 008 400	2 143 900	1 992 400	1 989 500	1e
Kosovo	500	800	1 000	0	0	1e
Madagascar	45 100	57 420	60 750	98 000	39 200	1e
Oman	221 920	317 000	300 480	179 680	187 480	1e
Pakistan	71 680	54 580	34 230	40 700	27 730	1a
Papua New Guinea	3 630	40 500	42 570	45 000	45 000	2n
Philippines	14 651	14 110	18 820	6 200	10 300	1e
Russia	206 600	147 200	214 200	216 000	180 000	1n
South Africa	4 979 650	6 023 450	6 176 600	6 888 490	6 471 310	1e
Sudan	8 780	14 820	29 440	7 270	1 850	1e
Turkey	2 083 900	1 865 900	1 806 600	1 464 330	1 070 030	1a
Vietnam	830	800	1 600	0	0	2n
Zimbabwe	183 814	159 814	183 790	93 750	128 220	1e
Total	11 997 236	13 219 415	13 190 374	13 542 330	13 092 060	

COBALT

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	5 880	6 855	6 252	5 930	5 183	1e
Botswana	195	248	196	316	281	1e
Brazil	3 122	3 239	3 865	2 771	853	1e
Canada	6 676	7 168	6 574	6 904	6 969	1e
China	7 498	8 580	9 619	10 093	10 500	2q
Congo, D.R.	86 433	76 593	76 475	84 400	69 038	1e
Cuba	3 792	3 319	3 210	3 734	3 694	1n
Finland	1 381	2 061	2 104	2 119	2 308	1e
Indonesia	3 600	4 700	329	350	350	2q
Madagascar	718	2 340	3 221	3 920	3 654	1n
Morocco	1 314	1 378	1 391	1 722	2 081	1n

Abbreviations: see Explanation

DATA

New Caledonia	2 631	3 080	4 040	4 500	5 720	1e
Papua New Guinea	473	1 013	2 134	2 505	2 187	1n
Philippines	2 269	2 126	4 094	4 140	4 000	1n
Russia	2 186	2 368	2 302	2 100	2 100	1q
South Africa	1 102	1 294	1 332	1 362	1 101	1e
Uganda	556	181	0	0	0	1e
United States			120	760	690	1e
Vietnam			223	277	134	1n
Zambia	5 436	5 658	4 562	2 979	4 982	1e
Zimbabwe	195	319	358	355	409	1e
Total	135 457	132 520	132 401	141 237	126 234	

MANGANESE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	2 891 668	2 975 678	3 454 430	3 250 300	2 388 500	1n
Bosnia-Herzegovina	0	2 330	14 176	3 200	1 000	2n
Brazil	1 164 000	1 180 000	1 094 000	1 226 458	1 141 684	1e
Bulgaria	10 792	28 650	25 830	13 470	12 050	1a
China	3 520 000	3 730 000	3 310 000	2 484 000	2 150 000	1n
Cote d'Ivoire	112 500	110 480	162 900	118 430	93 150	1e
Egypt	25 000	12 500	12 000	12 000	5 000	2n
Gabon	1 609 300	1 955 300	1 872 100	1 973 000	1 658 500	1e
Georgia	90 000	88 000	83 600	66 000	48 400	2n
Ghana	519 830	701 110	473 720	451 020	706 390	1e
Hungary	13 750	9 370	13 650	15 330	4 840	1e
India	820 310	886 550	780 210	722 700	798 150	2e
Indonesia	14 000	2 000	3 700	27 600	27 600	2n
Iran	66 106	70 156	56 628	69 760	33 110	1a
Kazakhstan	601 000	575 800	527 000	328 400	323 300	1e
Malaysia	527 800	540 060	401 010	247 340	327 200	1e
Mexico	188 294	211 559	235 686	217 466	205 645	1a
Morocco	45 100	55 500	45 640	35 850	34 170	1e
Myanmar	114 500	157 600	96 800	28 000	116 000	2n
Namibia	57 600	58 000	32 000	10 110	5 050	2e
Oman	9 380	12 850	9 380	3 950	2 950	1e
Romania	1 910	1 390	4 880	4 200	1 550	1e
Russia	4 500	5 000	0	0	0	1e
Senegal	0	230	2 120	3 000	3 000	2n
South Africa	3 935 100	4 821 140	6 182 550	4 854 840	4 754 560	1e
Sudan	0	1 300	8 000	12 560	3 920	1e
Thailand	3 912	6 874	6 880	4 320	4 390	1e
Turkey	44 500	68 800	52 500	30 500	16 400	1a
Ukraine	456 600	474 500	565 800	546 600	491 500	1e
Vietnam	6 800	51 600	50 000	50 000	29 000	1e
Zambia	24 270	21 760	22 000	5 000	27 500	1e
Total	16 878 522	18 816 087	19 599 190	16 815 404	15 414 509	

MOLYBDENUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	1 617	1 915	954	869	479	1n
Armenia	5 253	5 723	5 796	5 131	5 771	1e
Australia			28	0	0	1e
Canada	8 936	7 956	9 358	2 505	2 835	1e
Chile	35 090	38 715	48 770	52 579	55 647	1e
China	120 580	124 470	131 500	135 150	129 150	1e
Iran	3 516	3 471	3 494	3 337	3 340	1a
Kazakhstan	360	0	0	430	1 941	1a
Korea, North	370	270	250	370	440	1q
Korea, South	421	453	490	258	0	1e
Mexico	11 366	12 562	14 370	11 327	11 896	1a
Mongolia	1 904	1 819	1 999	2 557	2 432	1e
Norway	4	8	2	1	1	1e
Peru	16 790	18 140	17 018	20 153	25 757	1e
Russia	4 838	3 605	3 114	3 240	3 200	1n
Turkey	0	620	0	1 335	0	1e
United States	60 400	61 000	68 200	47 400	35 800	1e
Uzbekistan	560	490	450	570	620	1n
Total	272 005	281 217	305 793	287 212	279 309	

NICKEL

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Albania	750	2 020	5 350	7 460	4 400	1e
Australia	304 152	292 619	266 181	225 227	203 135	1e
Botswana	17 948	22 848	14 958	16 789	16 878	1e
Brazil	89 600	77 400	85 600	89 302	85 600	1n
Canada	211 700	227 743	228 867	234 519	235 707	1e
China	93 300	93 200	101 100	100 800	90 000	1e
Colombia	51 595	49 320	41 222	36 671	37 092	1e
Cuba	64 600	53 000	50 400	52 700	51 000	2n
Dominican Republic	15 186	9 355	0	0	12 410	1e
Finland	19 073	18 560	19 281	9 383	20 654	1e
Greece	20 310	19 990	21 440	21 060	22 030	1a
Guatemala	2 400	9 200	57 700	38 500	36 900	1e
Indonesia	648 400	834 200	215 000	129 600	170 800	2q
Kosovo	4 440	7 610	6 720	6 650	4 310	1e
Macedonia	20 782	21 133	0	0	0	1e
Madagascar	8 254	26 908	37 046	45 075	42 024	1n
Morocco	288	160	0	0	0	1e
Myanmar	5 000	6 100	21 000	26 400	25 000	1n
New Caledonia	131 693	164 406	175 174	193 199	204 207	1e
Norway	400	300	290	300	230	2e
Papua New Guinea	4 758	11 369	20 988	25 582	22 234	1n
Philippines	317 621	313 050	443 909	466 754	341 673	1e
Poland	840	570	780	840	770	1e
Russia	254 100	264 000	264 000	261 000	222 000	1q

Abbreviations: see Explanation

DATA

South Africa	45 945	51 208	54 956	56 689	48 994	1e
Spain	2 397	7 564	8 652	7 208	0	3a
Turkey	3 810	1 080	3 030	8 640	9 340	1a
United States			4 300	27 200	24 100	1e
Venezuela	8 800	5 800	3 599	3 707	0	1q
Vietnam		1 166	6 854	8 607	4 272	1n
Zimbabwe	7 899	12 962	16 633	16 109	17 743	1e
Total	2 356 041	2 604 841	2 175 030	2 115 971	1 953 503	

NIOBIUM (NB₂O₅-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Brazil	82 214	76 899	88 771	84 189	84 000	2n
Burundi	62	11	25	13	8	1e
Canada	4 705	4 916	5 774	5 385	6 099	1e
China	14	15	20	30	40	2n
Congo, D.R.	193	230	376	694	797	1e
Ethiopia	32	14	25	20	28	1e
Mozambique	33	6	9	5	7	1e
Nigeria	31	30	30	29	26	1e
Russia	450	511	581	628	628	1e
Rwanda	172	370	345	248	190	1e
Uganda				0	4	1e
Total	87 906	83 002	95 956	91 241	91 827	

TANTALUM (TA₂O₅-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	0	0	0	20	60	1e
Bolivia	13	14	7	1	0	1a
Brazil	118	185	118	120	103	1b
Burundi	91	16	37	19	11	1e
Canada	0	40	0	0	0	1e
China	66	60	75	110	120	2n
Congo, D.R.	205	244	399	736	845	1e
Ethiopia	118	29	90	75	101	1e
Malaysia	26	19	26	9	8	1e
Mozambique	184	35	50	28	41	1e
Nigeria	78	75	75	72	66	1e
Russia	31	32	40	32	49	1n
Rwanda	263	567	530	380	290	1e
Total	1 193	1 316	1 447	1 602	1 694	

TITANIUM (TiO₂-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	1 406 200	1 107 600	997 000	1 053 300	1 070 000	1e
Brazil	39 780	44 970	46 445	47 000	48 000	1b
Canada	1 000 000	832 000	771 000	750 000	700 000	2n
China	800 000	1 020 000	1 118 700	1 067 200	1 196 000	1n
India	421 900	409 900	368 600	302 900	320 000	2n
Kazakhstan	29 150	30 000	20 000	12 770	9 900	1a
Kenya		3 190	258 910	319 750	339 480	1e
Korea, South	111 090	126 350	132 490	112 250	91 800	1e
Madagascar	353 700	304 100	206 700	102 700	127 000	1n
Malaysia	12 250	14 510	7 400	3 590	2 370	1e
Mozambique	320 800	399 900	475 800	425 600	504 200	1n
Norway	365 470	363 500	380 010	277 340	260 000	2n
Russia	179 000	179 000	180 000	190 000	150 000	2n
Senegal			55 950	240 270	238 120	1e
Sierra Leone	101 539	133 887	129 040	140 420	156 570	1e
South Africa	1 120 300	1 056 200	1 195 000	1 150 000	1 200 000	2n
Sri Lanka	26 100	24 810	20 140	23 410	11 730	1e
Turkey	4 750	4 750	4 750	4 750	4 750	1e
Ukraine	250 000	443 100	391 150	375 480	339 800	1n
United States	164 000	155 000	142 000	110 000	55 000	1e
Vietnam	508 720	533 420	290 160	123 600	52 830	3e
Total	7 214 749	7 186 187	7 191 245	6 832 330	6 877 550	

TUNGSTEN (W-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	290	320	477	348	108	1e
Austria	706	850	819	861	954	1e
Bolivia	1 247	1 253	1 251	1 461	1 109	1a
Brazil	381	494	510	500	400	2n
Burundi	200	39	27	11	77	1e
Canada	2 025	2 392	2 147	1 815	0	1e
China	67 600	71 400	67 700	72 200	70 600	1e
Congo, D.R.	101	59	13	55	79	1e
Korea, North	95	85	70	72	50	1e
Korea, South	14	0	12	8	14	1e
Kyrgyzstan	100	100	0	80	0	1n
Mongolia	117	249	765	877	812	1e
Myanmar	200	200	100	250	170	1n
Peru	289	28	61	110	0	1e
Portugal	763	692	671	474	685	1e
Russia	4 281	4 191	3 775	3 300	3 100	1n
Rwanda	1 041	1 319	1 288	1 060	1 020	1e
Spain	393	487	822	835	688	3a
Thailand	70	130	90	31	29	1e

DATA

Uganda	34	57	63	36	41	1e
United Kingdom				155	732	1n
Uzbekistan	131	98	83	110	80	1e
Vietnam	1 100	1 660	3 510	4 063	5 041	1n
Total	81 178	86 103	84 254	88 712	85 789	

VANADIUM (V₂O₅-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	70	407	0	0	0	1e
Brazil			1 032	5 810	7 966	1n
China	37 000	44 800	44 800	42 000	45 000	2b
Kazakhstan	1 000	1 000	1 000	1 000	0	2n
Russia	14 856	14 403	15 125	16 196	16 886	1n
South Africa	19 957	21 397	21 582	17 455	15 877	1e
United States	106	591	0	0	0	1e
Total	72 989	82 598	83 539	82 461	85 729	

6.4.2 NON-FERROUS METALS

ALUMINIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	413 395	440 176	441 893	428 206	424 871	1e
Australia	1 859 726	1 777 427	1 702 984	1 645 960	1 635 241	1e
Azerbaijan	54 200	53 900	50 400	53 300	36 800	1q
Bahrain	890 217	912 700	931 427	960 643	971 420	1e
Bosnia-Herzegovina	159 660	157 082	131 238	118 253	106 649	1e
Brazil	1 436 400	1 304 300	962 000	772 200	792 700	1e
Cameroon	52 000	75 000	93 000	65 000	65 300	1n
Canada	2 780 556	2 967 364	2 858 237	2 880 035	3 208 888	1e
China	23 534 000	26 534 000	28 316 700	31 410 000	31 873 000	1e
Egypt	393 700	325 300	304 200	338 000	314 600	1q
France	349 000	343 000	381 000	415 000	424 640	1n
Germany	410 500	492 368	530 700	541 400	546 800	1e
Ghana	38 000	36 600	38 100	33 800	33 010	1e
Greece	165 579	169 457	173 164	179 420	181 680	1a
Iceland	801 166	836 325	848 639	865 016	861 950	1e
India	1 720 000	1 667 300	2 026 803	2 354 949	2 896 629	1e
Indonesia	253 000	255 300	264 500	257 100	245 000	1q
Iran	336 500	299 448	286 514	353 000	293 988	1e
Italy	72 000	0	0	0	0	1e
Japan	4 500	3 000	500	0	0	1e
Kazakhstan	250 269	250 200	207 850	219 000	235 566	1e
Malaysia	121 900	290 000	440 000	440 000	620 000	1n
Montenegro	74 813	47 951	42 767	42 499	38 915	1e
Mozambique	562 000	564 000	566 880	558 390	571 125	1n
Netherlands	86 300	81 000	800	28 200	36 300	1q
New Zealand	326 963	324 835	328 269	335 292	338 556	1e

Abbreviations: see Explanation

DATA

Nigeria	22 000	2 000	0	0	0	1n
Norway	1 110 900	1 172 900	1 182 000	1 227 787	1 247 000	1n
Oman	360 000	354 000	364 000	377 186	386 395	1n
Qatar	604 000	606 000	612 000	610 000	612 000	1n
Romania	248 587	250 157	263 098	271 356	272 507	1e
Russia	4 024 000	3 724 000	3 488 000	3 529 000	3 561 000	1n
Saudi Arabia		187 000	662 000	839 000	869 000	1e
Slovakia	160 662	163 296	167 667	171 328	173 643	1n
Slovenia	83 278	84 035	84 361	83 775	84 365	1n
South Africa	665 000	822 000	745 000	695 000	701 000	1n
Spain	386 400	250 000	230 000	360 000	360 000	2q
Sweden	129 000	131 000	113 000	116 000	124 000	1n
Tajikistan	272 506	216 369	121 261	139 123	129 300	1e
Turkey	43 700	42 200	30 400	45 900	50 000	1a
United Arab Emirates	1 814 000	1 845 000	2 296 000	2 397 000	2 471 000	1n
United Kingdom	60 000	45 000	41 000	48 000	46 000	1n
United States	2 070 300	1 946 000	1 709 668	1 586 518	818 430	1e
Venezuela	203 000	171 200	138 400	119 511	145 000	1n
Total	49 403 677	52 220 190	54 176 420	57 911 147	58 804 268	

ANTIMONY

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	2 481	3 275	3 828	4 213	4 285	1n
Bolivia	5 081	5 053	4 186	3 843	2 669	1a
Canada	63	177	4	1	0	1e
China	135 600	120 937	121 400	111 400	108 000	1e
Ecuador		0	15	40	15	1e
Guatemala	62	159	0	0	25	1e
Honduras			13	14	0	1a
Iran	0	400	432	216	2 767	1a
Kazakhstan	600	900	1 000	979	573	1a
Kyrgyzstan	924	900	1 450	1 200	1 880	1n
Laos	521	804	620	1 166	242	1e
Mexico	169	294	266	90	166	1n
Morocco	590	600	1 380	0	0	1e
Myanmar	5 900	7 200	3 360	3 000	2 000	1n
Pakistan	12	89	979	114	21	1a
Peru	0	500	244	250	0	2q
Russia	6 400	6 520	6 400	7 420	6 620	1e
South Africa	3 066	2 405	815	100	1 200	2q
Tajikistan	5 545	7 307	11 200	13 460	26 970	1e
Thailand	672	488	706	0	32	1e
Turkey	6 590	4 180	3 070	1 950	2 000	2a
Vietnam	480	990	1 098	220	200	3e
Total	174 756	163 178	162 466	149 676	159 665	

Abbreviations: see Explanation

ARSENIC

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Belgium	1 000	1 000	1 000	1 000	1 000	2b
Bolivia	103	120	52	38	38	1a
China	26 000	25 000	25 000	25 000	25 000	2b
Iran	101	110	110	110	0	1a
Japan	40	45	45	45	45	2b
Morocco	8 820	8 968	6 863	7 567	6 122	1e
Namibia	4 045	2 000	1 980	2 000	1 960	1e
Philippines	400	0	0	0	0	1e
Russia	1 500	1 500	1 500	1 500	1 500	2b
Total	42 009	38 743	36 550	37 260	35 665	

BAUXITE (CRUDE ORE)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	76 281 000	81 119 000	78 632 393	80 909 703	83 516 578	1e
Bosnia-Herzegovina	800 316	657 115	620 308	787 409	738 609	1e
Brazil	34 987 800	33 896 100	36 308 000	37 057 000	39 244 200	1n
China	44 052 300	50 339 380	59 212 400	65 000 000	65 000 000	1e
Croatia	5 690	8 220	9 146	11 897	9 780	1e
Dominican Republic	10 522	929 576	1 749 308	1 724 162	281 960	1e
Fiji	350 000	461 000	496 616	172 336	58 050	1e
France	90 000	100 000	71 100	70 000	70 000	2e
Ghana	752 771	826 994	798 114	1 014 605	1 143 676	1e
Greece	1 815 328	1 844 000	1 872 710	1 831 660	1 847 700	1a
Guinea	19 977 000	18 763 000	19 182 000	20 163 774	31 117 131	1n
Guyana	2 213 972	1 713 242	1 563 563	1 526 467	1 479 090	1e
Hungary	255 073	93 700	14 400	8 300	16 710	1e
India	16 611 610	22 319 148	22 493 671	28 123 789	24 664 632	1e
Indonesia	31 443 000	57 023 800	2 539 274	471 867	494 722	1e
Iran	898 400	788 630	540 003	773 700	765 616	1a
Jamaica	9 339 300	9 477 133	9 676 697	9 628 818	8 540 131	1e
Kazakhstan	5 170 200	5 192 800	4 515 600	4 682 600	4 801 300	1e
Malaysia	121 873	219 888	3 676 876	27 900 000	6 700 000	1e
Mexico	96 000	0	0	0	0	1a
Montenegro	0	61 154	155 153	50 369	667 259	1n
Mozambique	8 633	6 190	3 386	4 985	1 451	1e
Pakistan	30 223	25 288	31 156	24 689	57 024	1a
Russia	5 166 000	5 634 000	6 056 000	5 800 000	5 918 000	1e
Saudi Arabia	760 114	1 978 360	2 076 000	2 174 000	3 168 000	1e
Sierra Leone	734 483	654 137	1 161 705	1 334 046	1 368 531	1n
Solomon Islands			40	278 400	234 500	1e
Suriname	2 874 343	2 670 700	2 707 700	1 865 100	0	1e
Tanzania	59 030	33 940	25 641	1 050	0	1e

DATA

Turkey	1 521 150	795 562	1 091 442	1 050 000	989 156	1a
United States	128 152	128 000	128 000	100 000	100 000	2q
Venezuela	2 285 332	2 341 155	2 346 160	991 810	340 000	1n
Vietnam	100 000	482 000	1 090 000	1 200 000	1 600 000	1n
Total	258 939 615	300 583 212	260 844 562	296 732 536	284 933 806	

BISMUTH

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Armenia	4	4	2	2	1	2n
Bolivia	8	10	11	20	43	1a
Canada	110	35	4	2	2	1e
China	6 000	7 500	7 750	7 250	7 100	1e
Japan	446	485	582	773	682	1e
Mexico	800	824	948	601	539	1a
Peru	5	588	188	0	0	2n
Russia	50	40	40	40	30	2n
Uzbekistan	2	2	2	2	0	2n
Vietnam			2 324	3 000	2 013	1n
Total	7 425	9 488	11 851	11 690	10 410	

CADMIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	37	28	30	39	0	2q
Armenia	43	41	43	0	0	2n
Brazil	200	200	200	200	200	2q
Bulgaria	394	382	385	356	245	1e
Canada	1 286	1 313	1 187	1 159	2 305	1e
China	7 265	7 496	8 201	8 162	8 100	2q
Germany	310	430	570	370	652	1e
India	391	228	69	0	35	1e
Japan	1 855	1 821	1 851	1 959	1 988	1q
Kazakhstan	1 166	1 319	1 633	1 459	2 682	1a
Korea, North	200	200	200	200	200	2q
Korea, South	3 904	3 904	4 300	3 620	4 595	1e
Mexico	1 482	1 451	1 409	1 283	1 244	1a
Netherlands	560	560	600	620	620	1q
Norway	310	310	320	310	335	1e
Peru	684	695	769	757	820	1e
Poland	370	460	628	383	200	1e
Russia	1 000	900	1 000	1 186	1 100	1n
United States	600	600	550	500	400	2q
Uzbekistan	625	0	60	707	290	2q
Total	22 682	22 338	24 005	23 270	26 011	

Abbreviations: see Explanation

COPPER

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Albania	5 680	5 920	3 690	2 190	0	1e
Argentina	135 700	109 600	102 574	61 811	81 890	1n
Armenia	38 968	44 797	46 849	51 765	95 080	1e
Australia	921 390	1 000 999	978 534	995 881	948 135	1e
Azerbaijan	502	327	784	969	1 947	1e
Bolivia	8 653	7 549	10 746	9 479	8 718	1a
Botswana	35 770	51 300	47 700	22 284	13 120	1e
Brazil	223 141	270 979	301 197	359 463	337 600	1e
Bulgaria	107 328	115 450	115 540	112 600	111 870	1a
Canada	580 082	652 595	672 729	714 647	707 605	1e
Chile	5 433 900	5 776 000	5 761 100	5 772 100	5 552 600	1e
China	1 576 800	1 715 200	1 781 000	1 706 400	1 851 000	1e
Colombia	750	640	4 118	5 463	8 493	1n
Congo, D.R.	619 942	914 631	1 065 744	1 069 039	1 035 631	1e
Cyprus	4 328	3 361	3 088	2 121	1 754	1a
Dominican Republic	11 737	10 379	9 262	7 324	9 836	1n
Ecuador	2 500	2 600	3 200	2 500	3 000	1e
Eritrea	0	21 779	88 900	61 600	25 300	1n
Finland	25 445	38 763	42 810	41 805	47 488	1e
Georgia	6 820	7 800	13 100	11 700	12 100	1e
India	28 440	32 276	24 750	34 920	31 000	1e
Indonesia	398 000	509 200	378 800	578 600	700 224	1n
Iran	238 000	222 900	216 800	254 709	282 500	1a
Kazakhstan	426 200	452 500	471 700	467 500	471 500	1e
Korea, North	6 700	6 200	14 400	15 000	20 000	2q
Korea, South				0	117	1e
Kyrgyzstan			700	3 100	8 200	1n
Laos	149 580	154 915	159 696	167 702	167 679	1n
Macedonia	8 901	8 763	8 500	8 834	9 032	1e
Mauritania	37 670	37 970	33 079	45 001	32 818	1n
Mexico	500 275	480 124	515 025	594 451	766 129	1a
Mongolia	126 550	203 800	274 600	335 850	374 260	1e
Morocco	16 580	13 020	22 360	26 850	31 810	1n
Myanmar	12 000	20 000	33 200	69 850	71 190	1n
Namibia	5 304	5 182	5 086	13 913	16 391	1e
Oman	21 760	12 050	15 140	8 650	0	1e
Pakistan	19 229	13 500	13 122	13 056	14 136	1n
Papua New Guinea	125 348	105 523	75 901	45 185	80 022	1n
Peru	1 298 761	1 375 639	1 377 642	1 700 814	2 353 859	1e
Philippines	65 444	90 861	91 922	83 835	83 649	1e
Poland	427 064	428 879	421 285	425 870	424 276	1n
Portugal	74 941	77 236	75 433	83 081	75 861	1e
Romania	9 482	6 700	7 680	7 710	8 390	1n
Russia	638 000	655 000	691 500	698 000	686 000	1n
Saudi Arabia	17 639	20 380	43 390	56 126	46 253	1e
Serbia	32 200	32 609	31 584	31 601	34 625	1n
Slovakia	31	40	46	58	0	1e
South Africa	69 859	80 821	78 697	77 360	65 257	1e
Spain	99 884	102 977	104 476	129 788	182 500	3a
Sweden	82 422	82 904	79 681	75 113	79 247	1e
Tajikistan	440	600	940	1 390	2 050	1n
Tanzania	5 836	5 752	6 363	6 468	7 166	1e
Turkey	101 700	120 500	96 300	108 000	100 000	2q

Abbreviations: see Explanation

DATA

United States	1 166 800	1 278 200	1 384 700	1 380 000	1 430 000	1e
Uzbekistan	95 600	98 000	99 500	100 000	100 000	2n
Vietnam	12 720	14 188	21 762	24 420	24 460	1n
Zambia	699 020	763 805	708 259	711 515	774 290	1e
Zimbabwe	6 665	8 285	8 261	8 218	9 101	1e
Total	16 764 481	18 271 968	18 644 945	19 403 679	20 417 159	

GALLIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
China	50	128	262	254	171	1e
Germany		38	16	11	4	1e
Hungary	4	2	2	0	0	2n
Japan	8	8	8	8	5	2n
Kazakhstan	16	0	0	0	0	2n
Russia	6	6	4	4	4	2n
Ukraine	11	11	10	13	10	2n
Total	95	193	302	290	194	

GERMANIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
China	84	89	95	114	110	1e
Finland	16	17	17	13	0	1e
Japan	2	2	2	2	2	2n
Russia	5	5	6	6	6	2n
Ukraine	1	1	1	1	1	2n
United States	3	3	3	3	3	2n
Total	111	117	124	139	122	

LEAD

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	26 475	28 673	29 911	26 000	28 000	2q
Australia	620 598	711 210	727 954	653 488	453 374	1e
Bolivia	81 095	82 131	75 572	75 273	89 510	1a
Bosnia-Herzegovina	3 330	6 222	5 960	6 210	6 820	1e
Brazil	8 922	8 020	10 978	10 000	9 000	1q
Bulgaria	14 764	16 940	17 020	18 370	22 040	1a
Burkina Faso		1 017	1 880	2 000	2 000	2n
Canada	62 014	20 678	3 617	3 809	12 658	1e
Chile	410	1 829	2 678	2 979	1 110	1e
China	2 613 200	2 696 500	2 608 600	2 339 000	2 227 500	1e
Congo, D.R.	730	621	764	653	101	1e
Greece	15 313	14 211	13 016	10 074	11 283	1n

Abbreviations: see Explanation

DATA

Guatemala	2 269	818	10 359	10 153	10 000	1n
Honduras	12 400	11 600	15 500	9 800	4 000	1e
India	104 340	109 810	111 370	143 710	147 110	1e
Iran	45 000	42 000	44 000	40 800	42 000	2q
Ireland	47 400	42 950	40 500	31 300	19 600	1e
Kazakhstan	38 100	40 100	37 800	40 700	70 500	1e
Korea, North	38 000	40 000	36 100	32 300	36 800	2e
Korea, South	1 940	2 500	2 760	2 920	2 840	1e
Kosovo	6 700	7 400	7 700	5 400	6 900	1e
Laos	160	1 600	100	190	510	1e
Macedonia	39 180	42 820	43 810	37 920	31 030	1e
Mexico	238 091	253 361	250 462	263 772	241 271	1a
Mongolia		230	520	200	4 720	1e
Montenegro	1 500	1 700	1 800	1 800	2 100	1n
Morocco	27 550	30 790	27 530	32 160	28 670	1e
Myanmar	9 800	11 700	18 000	13 600	21 600	1n
Namibia	9 200	10 800	11 700	9 700	6 800	1e
Nigeria	11 300	11 500	11 400	16 000	14 500	1n
Pakistan	600	120	1 195	136	1 196	1n
Peru	249 236	266 472	277 294	315 784	314 174	1e
Poland	73 231	78 980	83 150	49 000	43 060	1e
Portugal	87	1 496	3 191	3 077	4 246	1e
Romania	5 500	800	570	200	120	1e
Russia	151 000	165 000	196 000	180 000	193 000	1q
Saudi Arabia	400	0	0	0	0	1e
Serbia	2 500	3 100	3 730	2 420	2 450	1n
Slovakia	166	235	162	160	200	2q
South Africa	52 489	41 848	29 348	34 573	39 344	1e
Spain	3 763	2 160	1 223	1 598	4 900	3a
Sweden	63 551	59 556	70 848	79 354	75 830	1e
Tajikistan	18 497	23 107	32 400	40 130	57 360	1e
Turkey	47 350	65 630	94 900	75 900	64 300	1e
United Kingdom	61	36	0	0	0	1e
United States	345 000	339 000	378 000	370 000	346 000	1e
Uzbekistan	3 000	3 000	3 000	3 000	2 000	2q
Vietnam	400	1 900	2 800	1 900	800	2n
Total	5 096 612	5 302 171	5 347 172	4 997 513	4 703 327	

LITHIUM (Li₂O-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	5 660	5 700	7 500	7 710	12 255	1e
Australia	27 120	21 000	22 200	24 140	22 460	1e
Brazil	390	416	452	450	650	1n
Chile	28 490	24 130	24 820	22 500	31 240	1e
China	6 870	8 600	10 000	9 500	7 500	1n
Portugal	246	237	208	204	314	1e
United States	2 000	1 870	2 150	2 000	2 100	2n
Zimbabwe	1 670	1 680	1 720	1 845	2 030	1e
Total	72 446	63 633	69 050	68 349	78 549	

Abbreviations: see Explanation

MERCURY

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	37	28	25	25	25	2q
Chile	49	19	20	14	2	1e
China	1 347	1 613	2 260	2 800	3 483	1q
Iran	0	10	12	14	3	1a
Kyrgyzstan	75	31	46	20	20	2n
Mexico	190	268	301	307	267	1e
Morocco	20	20	20	20	20	2q
Russia	50	50	50	50	50	2q
Tajikistan	103	130	85	96	120	2n
United States	15	15	15	15	15	2q
Total	1 886	2 184	2 834	3 361	4 005	

RARE EARTHS CONCENTRATES (REO-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	3 222	1 268	7 191	10 916	13 872	1e
Brazil	206	600	0	880	2 200	1b
China	95 000	93 800	95 000	105 000	105 000	1e
Malaysia	113	261	455	565	600	2n
Russia	2 131	1 443	2 134	2 312	3 063	1n
United States	2 336	3 473	4 769	3 678	0	1e
Total	103 008	100 845	109 549	123 351	124 735	

RHENIUM

C o u n t r y	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg	Rem
Armenia	293	298	351	104	405	1e
Chile	25 038	17 364	18 057	22 535	22 542	1n
China	2 200	2 300	2 300	2 400	2 400	2n
Kazakhstan	3 000	2 500	300	3 306	3 300	2n
Poland	2 770	5 210	5 335	6 346	6 443	1e
Russia	1 500	1 500	1 500	1 500	1 500	2n
United States	7 910	7 110	8 510	7 900	8 440	1e
Uzbekistan	1 200	900	900	1 000	1 000	2b
Total	43 911	37 182	37 253	45 091	46 030	

SELENIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Armenia	17	20	0	1	1	2n
Belgium	200	200	200	200	200	2b
Canada	145	138	142	156	176	1e
Chile	70	41	0	0	0	2b
China	700	1 000	720	729	772	1e
Finland	93	72	94	93	118	1e
Germany	650	700	700	660	700	2b
India	16	16	16	17	17	2n
Japan	820	741	782	773	752	1b
Kazakhstan	130	130	50	13	13	2n
Mexico	95	132	120	99	121	1a
Peru	42	50	40	40	45	2b
Philippines	70	70	70	70	90	1n
Poland	90	80	90	87	82	1e
Russia	145	150	170	180	185	2n
Serbia	13	16	17	17	18	1e
Sweden	100	100	100	100	60	2n
Uzbekistan	20	20	20	20	10	1e
Total	3 416	3 676	3 331	3 255	3 360	

TELLURIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Canada	10	12	8	10	18	1e
Japan	43	31	37	37	33	1b
Peru	0	22	9	0	0	2n
Russia	30	31	33	35	40	1n
Sweden	7	24	31	33	39	1e
United States	50	50	50	50	50	2n
Total	140	170	168	165	180	

TIN

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	6 158	6 472	6 898	7 158	6 635	1e
Bolivia	19 702	19 287	19 791	20 135	17 460	1a
Brazil	13 667	16 830	25 534	18 824	19 000	2q
Burundi	53	56	81	55	46	2n
China	115 900	149 000	157 980	135 000	97 000	1n
Congo, D.R.	10 440	4 162	4 012	4 567	6 503	1e
Egypt	16	111	48	0	0	1n
India	36	26	19	10	9	1e
Indonesia	103 324	92 491	75 170	70 310	62 877	1e

DATA

Laos	468	521	782	461	1 005	1e
Malaysia	3 725	3 697	3 777	4 159	4 123	1e
Mongolia	54	60	60	41	25	1e
Myanmar	5 000	19 000	35 000	58 000	95 000	1q
Nigeria	2 408	2 516	2 485	2 298	3 443	1n
Peru	26 105	23 668	23 105	19 511	18 789	1e
Portugal	41	84	75	42	55	1e
Russia	152	156	321	578	627	1e
Rwanda	3 339	3 524	4 270	2 770	2 560	1e
Spain	69	0	0	0	7	1a
Tanzania	20	170	79	179	138	1q
Thailand	125	83	98	45	58	1e
Uganda	0	19	33	135	62	1e
United Kingdom			0	16	144	1n
Vietnam	3 191	5 129	4 833	4 530	4 579	1q
Total	313 993	347 062	364 451	348 824	340 145	

ZINC

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria			0	50	310	1e
Argentina	42 000	47 700	44 000	33 800	26 300	1n
Armenia	7 371	9 054	8 459	7 111	4 960	1e
Australia	1 498 938	1 481 135	1 505 968	1 610 004	883 747	1e
Bolivia	389 911	407 332	448 970	442 154	486 955	1a
Bosnia-Herzegovina	6 000	8 978	8 600	8 960	9 830	1e
Brazil	164 258	152 147	169 766	156 000	157 000	2q
Bulgaria	13 411	13 910	13 070	16 390	18 790	1a
Burkina Faso		32 215	67 680	68 670	77 840	1n
Canada	641 100	426 545	352 125	289 584	321 757	1e
Chile	26 762	29 759	45 094	48 071	42 870	1e
China	4 859 100	5 187 700	5 118 400	4 748 000	4 635 000	1e
Congo, D.R.	11 623	12 114	12 737	12 675	12 587	1e
Dominican Republic			0	4 655	3 685	1n
Eritrea				0	40 900	1n
Finland	52 265	41 124	46 063	25 332	45 852	1e
Greece	23 196	22 512	22 953	13 174	18 866	1n
Guatemala	3 300	865	13 394	14 810	15 000	1n
Honduras	26 000	25 000	30 000	23 000	14 500	1e
India	759 530	769 930	767 180	740 740	745 980	1e
Iran	138 000	130 000	150 000	168 210	176 400	1a
Ireland	337 500	326 700	282 600	236 300	147 800	1e
Kazakhstan	369 700	361 500	345 200	342 500	324 800	1e
Korea, North	35 000	36 000	32 000	32 000	64 000	2e
Korea, South	1 430	1 750	1 920	2 070	2 260	1e
Kosovo	3 800	5 000	5 500	4 000	4 800	1q
Laos	1 162	2 000	2 000	0	750	1e
Macedonia	28 040	30 910	31 570	29 150	24 870	1e
Mexico	660 349	642 542	659 878	786 774	661 188	1a
Mongolia	59 550	52 050	46 600	44 800	50 100	1e
Montenegro	4 600	4 600	7 200	7 000	8 100	1n
Morocco	46 440	41 820	45 410	53 750	43 020	1e
Myanmar	10 000	4 800	6 100	4 850	6 500	1n
Namibia	194 400	184 100	156 300	123 675	132 730	1e

Abbreviations: see Explanation

DATA

Nigeria	13 800	7 000	7 000	14 200	13 400	1n
Pakistan	10 024	0	0	0	7 700	1n
Peru	1 281 282	1 351 273	1 315 475	1 421 523	1 336 835	1e
Philippines	19 559	16 730	0	0	0	1e
Poland	76 700	77 000	70 000	65 000	61 000	1e
Portugal	30 006	53 382	67 384	66 871	69 527	1n
Romania	8 400	2 000	3 120	2 900	1 500	1e
Russia	191 500	211 400	193 900	206 000	282 000	1q
Saudi Arabia	21 213	26 293	41 804	37 513	39 008	1e
Serbia	6 000	5 800	7 180	4 670	4 700	1n
Slovakia	134	190	176	170	200	2q
South Africa	37 034	30 145	26 141	29 040	26 695	1e
Spain	28 634	30 428	26 756	49 216	76 342	3a
Sweden	188 325	176 582	221 841	246 983	258 264	1e
Tajikistan	24 000	29 955	42 740	50 400	73 850	1e
Thailand	33 328	34 516	45 380	36 210	35 130	1e
Tunisia	7 400	7 700	7 400	0	0	1q
Turkey	209 000	200 000	211 500	173 600	201 500	1q
United States	738 400	784 400	830 800	824 700	805 000	1e
Uzbekistan	6 000	8 000	8 000	8 000	10 000	2q
Vietnam	25 000	20 000	17 000	15 000	12 000	2q
Total	13 370 475	13 564 586	13 590 334	13 350 255	12 524 698	

6.4.3 PRECIOUS METALS

GOLD

C o u n t r y	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg	Rem
Algeria	323	140	85	106	102	1e
Argentina	54 651	52 486	60 170	63 231	56 967	1n
Armenia	1 941	2 324	2 845	2 805	3 000	2n
Australia	250 441	267 062	274 047	279 190	282 421	1e
Azerbaijan	1 563	1 619	1 875	2 240	2 034	1n
Benin	30	30	30	30	30	2q
Bolivia	27 488	18 127	24 803	13 000	12 811	1a
Botswana	1 377	1 206	958	756	833	1e
Brazil	66 773	79 563	81 038	83 127	83 000	1e
Bulgaria	6 100	7 390	6 810	7 930	7 920	1a
Burkina Faso	30 169	32 959	36 321	36 540	38 530	1e
Burundi	2 046	2 823	650	549	396	1e
Cameroon	225	480	517	795	1 000	2q
Canada	107 486	133 636	152 460	162 504	165 034	1e
Central African Republic	38	11	7	15	33	1e
Chile	49 936	51 309	46 031	42 501	46 333	1e
China	403 060	428 160	451 799	450 053	453 500	1e
Colombia	66 178	55 745	57 015	59 202	61 805	1e
Congo, D.R.	2 813	6 149	23 937	31 878	30 664	1e
Congo, Rep.	150	150	150	150	100	2n
Costa Rica	500	2 000	1 050	950	1 000	2n
Cote d'Ivoire	11 232	12 961	17 381	20 245	20 596	1n
Dominican Republic	4 106	26 084	35 402	30 454	38 131	1e
Ecuador	5 139	8 676	7 322	7 723	6 761	1e
Egypt	8 175	11 502	11 734	13 657	17 139	1n

Abbreviations: see Explanation

DATA

Eritrea	9 735	2 862	840	753	333	1n
Ethiopia	12 200	13 050	10 340	9 370	6 800	1e
Fiji	1 439	1 218	1 196	1 290	1 500	1e
Finland	9 100	8 660	8 085	8 342	8 865	1e
French Guiana	1 147	1 220	1 689	1 460	1 600	2e
Gabon	683	1 192	1 078	1 472	1 020	1e
Georgia	3 100	4 300	2 300	3 073	3 621	1n
Ghana	98 489	99 303	106 771	96 926	128 502	1e
Greece	1 066	2 492	2 328	1 600	940	1a
Greenland	203	0	0	0	0	1n
Guatemala	6 473	6 386	6 140	5 641	3 907	1n
Guinea	16 154	18 140	23 458	21 458	30 274	1e
Guyana	13 643	14 963	12 053	14 029	22 168	1e
Honduras	1 858	1 985	2 762	2 598	2 607	1n
India	1 588	1 564	1 440	1 323	1 594	1e
Indonesia	69 291	59 804	69 349	92 171	91 090	1e
Iran	1 500	1 656	1 760	2 368	4 537	1a
Japan	7 232	7 411	7 114	7 699	6 455	1e
Kazakhstan	39 903	42 552	50 339	63 614	74 737	1e
Kenya	3 642	2 100	237	337	200	1e
Korea, South	336	413	283	269	205	1e
Kyrgyzstan	10 333	19 298	18 117	17 015	19 497	1n
Laos	6 415	6 838	5 260	6 893	6 764	1n
Liberia	641	587	620	829	4 704	1e
Macedonia	500	490	480	494	664	1e
Madagascar	157	160	160	160	586	1e
Malaysia	4 625	3 823	4 308	4 854	2 149	1e
Mali	46 200	47 000	45 800	46 503	46 938	1e
Mauritania	7 647	9 518	9 624	8 805	7 127	1e
Mexico	102 802	117 848	117 771	134 759	132 413	1a
Mongolia	5 995	8 904	19 963	20 829	18 436	1e
Morocco	519	463	377	448	352	1n
Mozambique	178	91	197	242	201	1e
Myanmar	380	611	689	1 250	1 250	2n
Namibia	2 287	2 046	2 140	6 410	7 062	1e
New Zealand	10 049	12 468	11 989	12 687	9 866	1e
Nicaragua	6 981	8 611	8 237	7 538	8 314	1e
Niger	1 677	1 151	732	1 220	999	1e
Nigeria	4 303	6 261	7 100	7 000	7 000	2n
Oman	19	0	0	0	0	1e
Panama	2 207	1 116	11	0	0	1n
Papua New Guinea	58 640	61 524	56 387	57 848	61 733	1n
Peru	161 545	156 257	140 097	146 823	153 006	1e
Philippines	14 596	17 248	18 423	20 643	22 674	1e
Poland	469	431	226	431	402	1e
Romania	500	500	500	500	500	2q
Russia	199 800	214 700	249 065	255 200	262 380	1e
Rwanda	0	0	203	800	1 980	1e
Saudi Arabia	4 286	4 158	4 789	5 089	7 010	1n
Senegal	6 666	6 445	6 588	5 779	6 741	1n
Serbia	900	1 154	1 310	1 186	805	1n
Sierra Leone	141	96	43	106	188	1e
Slovakia	546	533	582	603	466	1a
Solomon Islands	2 109	1 945	531	0	0	1e
South Africa	155 286	160 016	151 622	144 504	142 162	1e
Spain	1 529	1 994	1 942	1 825	1 291	1n
Sudan	46 133	70 000	73 300	82 400	93 400	1e
Suriname	12 507	11 001	10 641	9 397	12 926	1n

Abbreviations: see Explanation

DATA

Sweden	6 015	6 530	6 849	6 028	6 463	1e
Tajikistan	2 400	2 674	3 436	4 200	5 040	1e
Tanzania	39 012	43 390	40 481	43 861	45 778	1e
Thailand	4 895	4 419	4 514	3 305	4 293	1e
Togo	18 551	21 086	20 583	15 568	14 000	1e
Turkey	29 390	33 980	31 260	27 800	24 030	1e
Uganda	4	5	24	13	11	1e
United Kingdom	102	42	0	0	0	1e
United States	234 623	229 703	210 077	213 808	222 211	1e
Uruguay	1 930	2 038	1 719	1 413	999	1n
Uzbekistan	90 000	98 000	102 000	103 000	100 000	1n
Venezuela	1 982	1 675	1 056	558	800	1e
Vietnam	1 508	1 681	123	0	0	1n
Zambia	4 232	5 207	4 803	4 238	4 610	1e
Zimbabwe	14 743	14 001	15 386	20 023	22 747	1e
Total	2 729 677	2 913 580	3 016 134	3 100 309	3 214 063	

PALLADIUM

C o u n t r y	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg	Rem
Australia	565	630	613	425	610	1e
Botswana	2 582	1 337	560	156	0	1n
Canada	15 520	16 350	22 000	22 600	21 200	2n
Finland	379	766	808	784	901	1e
Poland	23	30	25	20	30	1e
Russia	81 710	78 630	80 530	75 710	86 250	1n
Serbia	22	25	23	22	23	2n
South Africa	74 738	76 008	58 410	82 691	76 273	1e
United States	12 314	12 572	12 448	12 532	13 070	1n
Zimbabwe	8 136	10 153	10 138	10 055	12 222	1e
Total	195 989	196 501	185 555	204 995	210 579	

PLATINUM

C o u n t r y	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg	Rem
Australia	141	156	153	108	152	1e
Botswana	435	218	124	31	0	1n
Canada	6 570	8 000	8 700	10 000	9 300	2n
Colombia	1 460	1 836	1 135	861	917	1e
Finland	429	946	1 060	992	1 178	1e
Poland	39	51	40	40	50	1e
Russia	24 910	22 900	21 770	20 839	21 860	1n
Serbia	3	2	3	2	3	2n
South Africa	128 590	137 024	93 991	139 125	133 241	1e
United States	3 664	3 723	3 655	3 667	3 891	1n
Zimbabwe	10 524	13 065	12 483	12 564	15 110	1e
Total	176 765	187 921	143 114	188 229	185 702	

Abbreviations: see Explanation

RHODIUM

C o u n t r y	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg	Rem
Canada	400	470	550	530	500	2n
Russia	2 799	2 488	2 488	2 488	2 644	1n
South Africa	17 810	18 129	12 916	18 722	19 237	1e
United States	284	100	124	96	103	1n
Zimbabwe	891	1 146	1 140	1 128	1 322	1e
Total	22 184	22 333	17 218	22 964	23 806	

SILVER

C o u n t r y	2012 kg	2013 kg	2014 kg	2015 kg	2016 kg	Rem
Algeria	53	27	16	20	20	1e
Argentina	749 594	774 477	905 112	1 079 291	931 707	1n
Armenia	16 667	18 179	18 374	18 350	14 100	2n
Australia	1 726 933	1 839 783	1 846 847	1 430 298	1 418 219	1e
Azerbaijan	3 679	2 049	970	890	5 136	1n
Bolivia	1 205 804	1 287 200	1 345 022	1 306 000	1 353 202	1a
Botswana	8 670	22 597	22 328	2 800	0	1e
Brazil	20 145	22 427	25 381	25 000	25 000	2q
Bulgaria	55 100	55 000	13 130	14 000	15 000	2n
Canada	685 255	640 362	495 403	383 807	404 666	1e
Chile	1 194 521	1 173 845	1 571 788	1 504 271	1 501 436	1e
China	3 639 110	3 670 213	3 499 144	3 421 385	3 496 033	1n
Colombia	19 368	13 968	11 498	10 155	10 427	1e
Congo, D.R.	12 342	60 431	6 485	2 412	835	1n
Cote d'Ivoire	572	647	600	576	549	1n
Dominican Republic	27 296	78 522	129 706	91 928	121 585	1e
Ecuador	2 934	1 198	577	2 521	934	1e
Eritrea	29 922	15 799	47 402	38 910	13 219	1n
Ethiopia	2 400	1 449	1 000	990	880	1n
Fiji	342	462	361	354	354	1e
Finland	10 479	14 226	12 830	13 051	16 348	1e
Ghana	4 000	4 000	4 000	4 000	3 100	1n
Greece	39 759	39 028	35 785	28 050	29 342	1n
Guatemala	204 556	265 943	858 356	862 814	837 793	1n
Honduras	50 605	50 916	56 826	34 369	17 803	1n
India	374 046	349 774	327 647	426 443	460 811	1e
Indonesia	247 827	123 109	119 189	151 934	112 774	1e
Iran	40 000	673	34 945	48 380	50 000	2q
Ireland	9 454	7 822	6 436	3 770	1 076	1n
Japan	3 526	3 644	3 541	4 616	5 076	1e
Kazakhstan	958 495	958 258	983 697	1 306 575	1 182 476	1e
Korea, North	50 000	50 000	50 000	50 000	50 000	2q
Korea, South	2 926	3 897	3 264	4 586	6 579	1e
Kosovo	1 800	0	0	0	0	1q
Kyrgyzstan	2 650	5 070	5 609	8 101	13 490	1n
Laos	20 292	32 262	39 801	51 764	50 904	1n
Macedonia	31 000	23 420	23 910	17 660	13 970	1n
Malaysia	1 627	361	533	945	1 075	1e
Mali	3 000	2 577	2 489	2 608	2 600	1e

Abbreviations: see Explanation

DATA

Mexico	5 358 195	5 827 001	5 765 662	5 955 151	5 408 521	1a
Mongolia	28 480	43 800	56 210	79 910	84 920	1e
Morocco	170 340	194 078	189 147	247 490	268 523	1n
Namibia	1 000	1 400	1 128	877	147	1e
New Zealand	5 630	11 223	15 811	12 498	7 960	1e
Nicaragua	10 207	13 745	13 593	18 049	21 203	1e
Niger	329	110	67	100	100	2q
Oman	486	0	0	0	0	1e
Papua New Guinea	84 016	89 885	84 379	73 166	92 632	1n
Peru	3 480 857	3 674 283	3 768 147	4 101 568	4 374 356	1e
Philippines	49 211	40 043	23 005	29 780	34 216	1e
Poland	1 149 000	1 199 029	1 186 014	1 209 094	1 264 659	1n
Portugal	29 890	40 621	43 172	41 337	38 631	1n
Romania	18 000	18 000	18 000	18 000	18 000	2q
Russia	1 425 000	1 427 651	1 433 871	1 580 058	1 449 423	1e
Saudi Arabia	5 500	4 158	4 888	5 530	4 500	1e
Senegal	670	850	1 150	540	640	1e
Serbia	8 400	5 800	8 586	7 488	11 345	1n
Slovakia	441	508	437	532	391	1a
Solomon Islands	902	735	271	0	0	1e
South Africa	67 304	68 777	49 220	51 861	55 622	1e
Spain	32 943	31 000	31 000	27 300	26 500	2n
Sudan	700	700	1 000	1 000	1 000	2q
Sweden	309 337	341 346	382 611	479 686	498 686	1e
Tajikistan	1 768	1 833	1 870	2 658	3 200	1e
Tanzania	12 310	11 720	14 493	15 820	17 901	1e
Thailand	32 047	32 381	31 046	21 047	35 954	1e
Turkey	193 890	189 600	183 880	193 556	174 180	1n
United Kingdom	230	82	0	0	0	1e
United States	1 055 300	1 037 000	1 183 900	1 090 000	1 147 000	1e
Uzbekistan	60 000	60 000	60 000	60 000	60 000	2q
Total	25 049 132	25 980 974	27 062 560	27 677 720	27 268 729	

6.4.4 INDUSTRIAL MINERALS

ASBESTOS

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Brazil	304 569	290 825	311 227	310 000	177 800	1e
China	420 000	420 000	400 000	250 000	203 000	1e
India	389	172	0	0	0	1e
Kazakhstan	241 200	243 400	213 100	179 800	192 600	1e
Russia	1 000 000	811 000	733 068	647 690	713 675	1e
Zimbabwe	30	377	0	0	0	1e
Total	1 966 188	1 765 774	1 657 395	1 387 490	1 287 075	

BARYTE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	30 587	23 686	56 829	32 020	52 000	1e
Argentina	9 345	25 744	14 365	11 017	12 389	1e
Australia	12 373	13 176	14 676	6 017	7 139	1e
Bolivia	21 157	30 476	26 240	46 732	16 632	1a
Brazil	186 134	34 943	3 389	3 000	12 133	1e
Bulgaria		1 000	20 000	60 000	50 000	1e
Canada	22 000	22 000	22 000	30 000	30 000	2n
China	4 400 000	4 000 000	4 100 000	2 984 000	3 100 000	1n
Colombia	2 000	1 000	2 000	0	0	1e
Egypt	4 000	3 800	4 000	4 000	4 000	2n
Germany	52 030	45 446	87 575	68 297	49 373	1e
Guatemala	91	343	43	544	500	1e
India	1 789 431	1 170 522	910 963	900 000	1 300 000	1n
Iran	393 000	450 000	671 316	1 085 667	1 449 038	1a
Italy	3 500	0	0	0	0	1n
Kazakhstan	590 100	563 700	655 500	752 300	612 300	1a
Korea, North	0	600	20	12 000	9 000	1q
Laos	21 900	10 500	30 610	32 150	33 240	1e
Malaysia	0	500	575	0	0	1e
Mexico	139 997	343 585	130 914	265 700	150 970	1a
Morocco	1 021 400	1 094 500	1 006 600	1 212 130	668 500	1e
Myanmar	15 339	31 295	23 060	2 836	3 215	1e
Nigeria	16 292	18 960	7 113	3 323	3 000	2n
Pakistan	48 510	118 471	133 658	118 773	157 858	1a
Peru	79 451	53 139	106 071	28 407	7 953	1e
Russia	63 000	170 000	215 000	210 000	434 000	1b
Saudi Arabia	32 000	30 000	32 000	43 000	0	1e
Slovakia	21 000	21 000	20 900	20 000	23 000	1a
Thailand	64 499	107 437	134 961	170 621	223 101	1e
Tunisia	11 000	5 300	9 800	10 000	10 000	2n
Turkey	827 652	736 316	203 984	655 943	321 239	1a
United Kingdom	30 000	30 000	44 000	50 000	50 000	2n
United States	666 000	723 000	663 000	439 000	240 000	1e
Vietnam	90 000	90 000	112 000	140 000	100 000	2n
Total	10 663 788	9 970 439	9 463 162	9 397 477	9 130 580	

BENTONITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	26 300	27 670	31 510	34 400	37 000	1e
Argentina	193 795	200 000	200 000	180 000	170 000	2n
Armenia	7 491	18 456	3 640	9 228	13 956	1e
Australia	58 000	90 000	70 000	75 000	59 000	2n
Azerbaijan	36 700	97 700	81 900	56 800	54 500	1e
Bolivia	747	182	886	1 023	525	1a
Bosnia-Herzegovina	18 000	18 808	80 952	67 261	102 858	1e
Brazil	286 016	305 746	344 611	405 000	405 000	1b

Abbreviations: see Explanation

DATA

Bulgaria	110 000	0	41 100	61 600	37 100	1a
Chile	893	3 313	1 083	1 434	1 288	1e
China	3 500 000	3 610 000	3 600 000	3 650 000	3 600 000	1e
Cuba	668	335	700	500	389	1e
Cyprus	160 180	158 386	140 174	127 036	117 184	1a
Czech Republic	221 000	226 000	301 000	369 000	374 000	1a
Denmark	30 330	56 355	66 388	54 272	66 278	1e
Egypt	17 709	4 600	2 000	3 615	3 600	2n
France	28 000	23 111	11 607	36 403	42 567	1e
Germany	366 220	358 844	394 657	392 831	393 000	1e
Greece	1 235 105	1 000 000	1 011 485	1 123 320	883 220	1a
Guatemala	131 843	18 418	75 200	718	18 081	1e
Hungary	1 392	10 360	13 893	14 170	14 000	2n
India	1 081 000	1 310 000	1 333 000	1 580 000	1 600 000	2n
Indonesia	6 500	7 000	7 000	7 000	7 000	2n
Iran	427 000	397 106	419 693	435 974	356 036	1a
Iraq	6 530	6 288	6 000	6 000	6 000	2n
Italy	95 757	20 709	20 000	12 840	45 978	1e
Japan	430 000	500 000	500 000	500 000	500 000	2n
Kazakhstan					119 100	1a
Korea, South	88 543	80 188	71 850	78 439	63 834	1e
Macedonia	2 355	18 520	11 691	9 004	1 968	1e
Malawi	1 000	0	0	0	0	1e
Mexico	956 224	826 887	519 625	294 236	109 176	1a
Morocco	91 200	105 240	98 757	92 290	103 230	1e
Mozambique	846	93	739	350	322	1e
Myanmar	550	1 552	0	0	0	1e
New Zealand	2 263	762	1 000	700	700	2n
Pakistan	16 520	26 077	40 374	23 283	42 038	1a
Peru	22 977	47 744	37 375	21 341	19 246	1e
Philippines	2 700	3 330	3 370	3 480	3 230	1e
Poland	780	1 050	650	450	1 000	1e
Romania	19 241	24 127	18 583	19 355	20 000	2n
Russia	500 000	680 000	680 000	680 000	680 000	2n
Slovakia	146 800	197 600	214 000	230 000	155 000	1a
Slovenia	98	143	199	232	182	1e
South Africa	120 566	177 187	171 119	165 535	148 742	1e
Spain	96 605	102 726	105 627	100 604	87 570	3a
Thailand	141 000	150	0	0	0	1e
Turkey	1 032 325	731 936	1 098 817	3 134 911	1 744 912	1a
Turkmenistan	50 000	50 000	7 387	10 000	10 000	2n
Ukraine	219 000	220 000	220 000	220 000	220 000	2n
United States	4 980 000	4 350 000	4 800 000	4 010 000	3 600 000	1e
Uruguay	5 530	8 974	7 800	4 252	6 650	1e
Total	16 974 299	16 123 673	16 867 442	18 303 887	16 045 460	

BORON

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	525 674	425 140	375 000	300 000	300 000	2n
Bolivia	127 638	157 338	151 799	148 738	182 685	1a
Chile	449 572	582 074	496 533	517 584	558 854	1e
China	160 000	165 000	165 000	160 000	160 000	2b
Iran	3 000	914	180	515	36	1a

Abbreviations: see Explanation

Kazakhstan	30 000	30 000	30 000	30 000	30 000	2n
Peru	104 072	224 454	239 725	578 910	33 792	1e
Russia	75 000	76 199	81 234	82 000	80 000	1e
Turkey	2 220 000	2 000 000	1 870 000	1 840 000	1 831 000	1e
United States	1 102 000	1 032 000	1 118 000	1 218 000	1 134 000	1n
Total	4 796 956	4 693 119	4 527 471	4 875 747	4 310 367	

DIAMONDS (GEM)

C o u n t r y	2012 ct	2013 ct	2014 ct	2015 ct	2016 ct	Rem
Angola	7 497 896	7 741 527	7 875 803	8 117 048	8 119 320	1a
Australia	4 498 652	5 626 057	4 551 178	6 644 790	6 839 420	1e
Botswana	14 433 300	15 885 100	17 260 600	14 576 800	14 623 700	1e
Brazil	16 247	16 225	18 785	10 503	60 560	1e
Canada	10 529 000	10 599 660	12 011 619	11 677 471	11 996 074	1e
Central African Republic	292 734	95 120	34 000	34 000	9 973	1e
China	1 855	1 050	0	0	127	1c
Congo, D.R.	4 304 853	3 559 800	3 331 600	3 150 700	3 111 890	1e
Cote d'Ivoire	0	0	859	11 940	16 188	1c
Ghana	172 094	127 259	192 896	139 350	113 224	1e
Guinea	200 100	151 774	123 044	125 161	84 597	1c
Guyana	30 573	41 946	74 963	88 838	104 920	1e
India	2 559	3 000	2 889	2 884	2 920	1e
Lesotho	95 785	82 803	69 203	60 846	68 403	1c
Liberia	20 560	28 690	44 930	39 600	36 220	1e
Namibia	1 576 438	1 674 260	1 791 002	1 676 108	1 494 350	1e
Russia	20 956 590	22 731 084	22 982 100	25 147 434	24 430 920	1e
Sierra Leone	409 524	308 608	503 942	420 158	417 952	1e
South Africa	2 899 971	3 251 483	3 223 527	3 293 220	3 321 830	1e
Tanzania	108 098	152 688	214 945	184 025	203 915	1e
Zimbabwe	3 618 049	3 123 545	1 431 491	1 008 000	639 920	1e
Total	71 664 878	75 201 679	75 739 376	76 408 876	75 696 423	

DIAMONDS (IND)

C o u n t r y	2012 ct	2013 ct	2014 ct	2015 ct	2016 ct	Rem
Angola	833 100	860 170	875 089	901 894	902 147	1a
Australia	4 682 271	5 855 692	4 736 940	6 916 005	7 118 580	1e
Botswana	6 185 700	6 807 900	7 397 400	6 247 200	6 267 300	1e
Brazil	32 987	32 941	38 138	21 323	122 955	1e
Cameroon	0	2 723	3 718	2 245	994	1c
Central African Republic	73 183	23 780	8 500	8 500	2 493	1e
Congo, D.R.	17 219 413	14 239 200	13 326 400	12 602 790	12 447 557	1e
Congo, Rep.	51 588	56 495	53 163	40 057	12 110	1c
Cote d'Ivoire	0	0	215	2 985	4 047	1c
Ghana	43 024	31 815	48 224	34 838	28 306	1e
Guinea	66 700	50 591	41 015	41 720	28 200	1c
Guyana	10 191	13 982	24 988	29 613	34 970	1e
India	29 430	34 515	33 218	33 160	33 596	1e

Abbreviations: see Explanation

DATA

Lesotho	383 141	331 211	276 814	243 386	273 611	1c
Liberia	13 710	19 130	29 950	26 400	24 150	1e
Namibia	82 970	88 118	94 263	88 216	78 650	1e
Russia	13 971 060	15 154 056	15 321 400	16 764 956	16 287 280	1e
Sierra Leone	123 031	296 132	90 426	79 881	131 550	1e
South Africa	4 349 957	4 877 224	4 835 290	4 939 840	4 982 750	1e
Tanzania	19 076	26 940	37 930	32 475	35 985	1e
Togo	456	24	23	0	0	1e
Zimbabwe	8 442 114	7 288 273	3 340 146	2 352 000	1 493 140	1e
Total	56 613 102	56 090 912	50 613 250	51 409 484	50 310 371	

DIATOMITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	2 137	2 124	2 426	2 360	2 500	1e
Argentina	278 126	209 000	191 670	200 000	200 000	2b
Armenia	29 148	19 376	20 439	18 915	25 486	1e
Australia	20 000	9 238	1 679	4 923	1 033	1e
Brazil	3 427	1 947	5 080	5 000	5 000	2n
Chile	23 021	27 092	31 000	26 186	26 937	1e
China	420 000	430 000	430 000	420 000	400 000	1e
Costa Rica	4 000	19 037	10 851	20 537	20 500	2n
Czech Republic	43 000	49 000	34 000	15 000	26 000	1a
Denmark	110 625	128 100	118 800	127 500	114 400	1e
Ethiopia	4 000	4 000	4 000	4 000	4 000	2n
France	85 000	85 000	90 000	90 000	90 000	2n
Iran	0	9 500	9 912	9 500	37	1a
Kenya	1 746	1 054	1 195	1 090	1 092	1e
Korea, South	6 000	34 000	65 893	15 310	20 564	1e
Mexico	84 537	87 463	87 849	89 810	96 686	1a
Mozambique	541	375	78	0	0	1e
New Zealand	0	4	43 624	0	0	2n
Peru	93 996	124 917	151 398	120 672	107 265	1e
Poland		600	590	600	500	1e
Spain	60 777	53 713	59 619	47 706	48 231	3a
Thailand	8 500	0	0	0	0	1e
Turkey	86 403	84 571	61 884	86 656	61 722	1a
United States	735 000	782 000	901 000	832 000	686 000	1e
Total	2 099 984	2 162 111	2 322 987	2 137 765	1 937 953	

FELDSPAR

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	264 000	290 000	230 372	154 500	168 000	1e
Argentina	273 896	226 435	220 000	220 000	220 000	2n
Australia	95 934	63 685	46 202	40 777	31 768	1e
Austria	32 000	35 000	35 000	35 000	35 000	1e
Brazil	247 152	294 357	417 771	400 000	400 000	2b
Chile	6 399	3 874	4 233	6 577	6 352	1e

Abbreviations: see Explanation

DATA

China	2 100 000	2 220 000	2 300 000	2 350 000	2 400 000	2n
Colombia	60 000	46 000	46 000	12 234	15 107	1e
Cuba	3 800	3 200	3 600	3 300	3 900	1e
Czech Republic	445 000	411 000	422 000	433 000	454 000	1a
Ecuador	152 590	210 142	183 259	253 253	148 506	1e
Egypt	400 000	232 660	400 000	300 000	300 000	2b
Finland	43 124	47 636	46 233	38 026	18 549	1e
France	600 000	550 000	550 000	550 000	550 000	2n
Germany	5 320 977	5 399 644	5 846 646	4 649 326	4 650 000	2n
Greece	33 800	0	0	0	0	1a
Guatemala	19 356	19 611	10 410	10 340	30 428	1e
India	1 459 008	1 512 982	1 343 366	1 350 000	1 400 000	2n
Indonesia	742 900	1 530 600	1 474 100	1 206 700	1 200 000	2n
Iran	1 110 000	1 313 233	1 128 569	1 003 354	1 120 449	1a
Italy	2 179 522	2 182 561	2 185 000	2 200 000	2 200 000	2n
Japan	100 000	100 000	105 000	105 000	105 000	2n
Korea, South	359 513	343 366	528 958	601 030	654 398	1e
Macedonia	17 168	15 168	18 076	20 289	19 919	1e
Malaysia	237 945	314 399	378 446	442 980	326 648	1e
Mexico	380 441	164 484	150 726	159 372	127 213	1a
Morocco	36 000	61 000	45 000	32 000	33 600	2n
Nigeria	9 080	11 000	60 580	25 280	34 144	1e
Norway	0	0	1 278	76	0	2n
Pakistan	53 235	38 218	92 672	38 568	316 289	1a
Peru	26 359	22 695	18 019	16 979	16 630	1e
Philippines	24 969	30 388	34 232	35 000	35 000	2n
Poland	487 000	513 000	68 910	76 540	88 140	1e
Portugal	109 273	70 057	70 865	93 789	118 878	1e
Romania	4 112	7 060	7 570	13 244	13 000	2n
Russia	160 000	221 500	208 000	205 000	205 000	2n
Saudi Arabia	227 000	160 000	168 000	176 000	188 000	1e
Serbia	19 927	20 000	20 000	20 000	20 000	2n
South Africa	94 458	191 443	102 541	130 184	127 872	1e
Spain	530 238	592 908	533 328	558 273	650 000	3a
Sri Lanka	87 318	96 043	95 000	95 000	96 000	2n
Sudan	26 283	31 700	50 680	28 238	92 172	1e
Sweden	27 000	30 000	27 000	29 000	22 000	1e
Thailand	1 100 723	1 072 656	1 413 428	1 331 916	1 167 147	1e
Turkey	9 479 699	13 764 126	7 960 844	10 422 766	9 475 819	1a
Ukraine	146 286	133 933	94 506	44 460	33 627	1e
United States	560 000	550 000	530 000	520 000	470 000	1e
Uruguay	0	4	300	200	460	1e
Venezuela	85 115	91 054	93 934	75 527	75 000	2n
Total	29 978 600	35 238 822	29 770 654	30 513 098	29 864 015	

FLUORSPAR

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Afghanistan	0	4 700	4 108	2 000	2 000	2n
Argentina	35 874	37 967	35 000	35 000	39 000	2b
Brazil	24 148	27 712	23 849	24 000	24 000	2n
Bulgaria	69 700	82 500	130 800	131 900	4 400	1a
China	4 200 000	4 000 000	4 300 000	3 820 000	4 200 000	1n
Egypt	7 700	850	900	900	0	2n

Abbreviations: see Explanation

DATA

Germany	54 202	48 744	58 100	57 741	52 552	1e
India	3 092	2 486	2 947	2 333	1 175	1e
Iran	80 000	69 828	78 736	39 286	70 820	1a
Kenya	91 000	71 987	97 156	70 096	42 656	1e
Korea, North	6 500	5 000	5 000	4 000	0	2n
Mexico	1 237 091	1 210 477	1 109 721	624 574	655 255	1a
Mongolia	428 900	337 800	313 300	280 300	248 900	1e
Morocco	79 300	81 200	79 840	80 890	73 920	1e
Namibia	74 157	65 348	99 984	0	0	1e
Pakistan	6 859	13 344	7 500	5 960	9 494	1e
Russia	129 000	56 200	8 200	8 000	8 000	2n
South Africa	170 338	157 776	164 054	220 000	180 000	1n
Spain	101 000	96 810	120 582	130 647	130 131	3a
Sudan	950	0	0	0	0	1e
Thailand	9 602	2 432	4 590	15 095	20 100	1e
Turkey	5 197	3 874	4 271	6 238	10 339	1e
United Kingdom	0	16 000	25 000	17 000	17 000	2n
Vietnam	0	15 919	95 494	214 000	218 878	1n
Total	6 814 610	6 408 954	6 769 132	5 789 960	6 008 620	

GRAPHITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Austria	219	200	150	150	150	2n
Brazil	88 110	91 908	87 026	75 073	72 000	1e
Canada	25 000	30 000	30 000	30 000	30 000	2b
China	820 000	750 000	780 000	780 000	780 000	1n
Germany	109	269	517	398	502	1e
India	134 735	146 390	116 712	135 528	122 437	1e
Korea, North	40 000	30 000	30 000	40 000	47 000	2e
Korea, South	0	0	0	62	0	1e
Madagascar	3 629	3 833	5 316	8 100	9 230	1n
Mexico	7 520	7 024	9 160	6 524	14 200	1a
Norway	6 992	6 207	8 308	9 185	10 000	2n
Romania	7 000	0	0	0	0	2n
Russia	14 000	14 000	15 000	15 000	19 000	2n
Sri Lanka	3 094	3 083	3 819	4 212	3 860	1n
Sweden				295	0	1e
Turkey	31 500	28 740	3 850	0	0	1e
Ukraine	6 000	7 000	8 000	10 000	12 000	2n
Zimbabwe	7 022	6 934	6 853	6 362	5 622	1e
Total	1 194 930	1 125 588	1 104 711	1 120 889	1 126 001	

GYPSUM AND ANHYDRITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Afghanistan	65 000	65 000	57 000	57 000	57 000	2n
Albania	91 000	126 350	108 733	85 000	132 000	1e
Algeria	2 000 000	2 100 000	2 130 459	2 207 000	2 200 000	1e
Angola	121 980	189 240	328 130	127 910	0	1a

Abbreviations: see Explanation

DATA

Argentina	1 432 517	1 550 000	1 500 000	1 500 000	1 500 000	2b
Armenia	30 446	28 700	22 317	19 400	14 831	1e
Australia	3 371 945	4 616 650	3 672 100	3 715 200	3 971 920	1e
Austria	791 961	635 299	729 892	715 195	674 346	1e
Azerbaijan	150 500	249 800	222 700	196 500	155 800	1e
Bhutan	313 173	351 421	414 148	389 365	317 597	1e
Bolivia	645	1 223	1 464	650	1 182	1a
Bosnia-Herzegovina	73 365	68 550	88 977	58 800	61 231	1e
Brazil	3 749 860	3 332 991	3 447 012	3 450 000	3 450 000	2n
Bulgaria	113 700	119 100	87 800	108 600	60 900	1a
Canada	2 550 000	2 654 000	1 792 709	1 726 216	1 682 445	1e
Chile	799 064	1 015 158	843 490	860 075	934 033	1e
China	38 000 000	38 000 000	40 000 000	45 000 000	50 000 000	2n
Colombia	200 000	200 000	300 000	445 855	331 245	1e
Croatia	126 580	143 180	164 464	126 470	150 430	1e
Cuba	131 000	87 100	97 800	90 900	73 900	1e
Cyprus	327 800	315 000	347 600	471 885	682 024	1a
Czech Republic	14 000	11 000	11 000	11 000	10 000	1a
Dominican Republic	316 980	233 340	363 240	350 700	350 000	2n
Egypt	966 250	457 602	940 615	872 141	850 000	2n
Eritrea	800	1 000	1 000	1 000	1 000	2n
Ethiopia	46 000	42 452	43 000	45 000	45 000	2n
France	3 685 000	3 455 000	3 279 000	1 807 978	1 734 975	1e
Germany	2 653 906	2 417 125	2 699 775	2 574 312	3 970 000	1e
Greece	621 329	760 000	664 288	649 280	777 990	1a
Guatemala	99 628	117 619	81 805	111 351	130 617	1e
Honduras	5 500	5 500	2 598	2 600	5 000	2n
India	3 556 723	3 115 363	2 477 849	2 500 000	2 500 000	2n
Indonesia	7 500	8 000	8 000	8 000	8 000	2n
Iran	19 000 000	21 118 681	19 550 120	17 793 500	15 715 011	1a
Ireland	200 000	200 000	300 000	250 000	250 000	1e
Israel	45 407	27 200	82 000	159 300	160 000	2n
Italy	2 563 000	3 163 273	5 886 650	571 730	617 188	1e
Jamaica	64 753	48 322	45 200	43 000	50 000	1e
Jordan	260 000	270 000	275 000	275 000	81 000	1a
Kenya	6 653	5 500	5 900	5 800	5 760	1e
Kyrgyzstan	312 700	600 700	484 300	60 617	60 000	2n
Laos	562 386	772 138	584 338	989 516	469 436	1e
Latvia	252 710	272 340	270 120	225 370	224 000	1e
Lebanon	110 000	110 000	110 000	110 000	110 000	2n
Libya	120 000	120 000	150 000	150 000	150 000	2n
Macedonia	157 844	162 661	156 492	172 525	202 582	1e
Mauritania	45 576	20 000	30 000	70 000	80 000	2n
Mexico	9 456 478	7 903 159	7 043 563	7 101 612	7 682 807	1a
Moldova	188 200	161 500	172 300	194 900	204 400	1e
Myanmar	64 079	60 510	104 994	99 860	338 492	1e
Nicaragua	34 886	36 498	46 569	54 581	57 949	1e
Niger	600	0	0	0	0	1e
Norway	85 296	77 009	79 740	77 403	82 386	1e
Oman	1 915 300	2 812 600	3 387 300	6 251 900	7 857 600	1e
Pakistan	1 260 021	1 249 967	1 326 437	1 417 007	1 871 716	1a
Paraguay	4 500	4 500	4 500	4 500	4 500	2n
Peru	390 705	297 727	543 856	438 025	257 423	1e
Poland	1 227 900	1 084 560	1 052 470	1 018 450	1 043 000	1e
Portugal	264 427	299 038	328 730	309 966	310 000	2n
Romania	879 000	736 100	815 586	888 746	890 000	2n
Russia	4 179 000	4 223 000	4 419 000	4 223 000	4 200 000	2b
Saudi Arabia	1 700 000	1 700 000	1 780 000	1 860 000	3 000 000	1e

Abbreviations: see Explanation

DATA

Slovakia	138 000	56 000	67 900	65 700	52 300	1a
Somalia	1 500	1 500	1 500	0	0	2n
South Africa	558 242	559 443	376 223	231 688	257 289	1e
Spain	6 359 923	7 388 699	6 925 120	7 403 767	8 770 650	3a
Sudan	117 073	132 000	111 271	24 136	34 924	1e
Switzerland	330 000	340 000	340 000	320 000	320 000	2n
Syria	328 000	300 000	200 000	100 000	50 000	2n
Tajikistan	14 000	15 000	12 455	8 339	8 750	1e
Tanzania	91 600	220 500	200 179	254 800	213 700	1e
Thailand	12 304 371	13 646 725	13 421 918	12 143 168	11 746 811	1e
Tunisia	752 641	744 589	771 652	690 000	650 000	2n
Turkey	8 248 446	9 790 097	9 051 158	8 638 715	10 124 221	1a
Ukraine	2 224 000	2 175 400	1 525 300	1 254 900	1 303 000	1e
United Kingdom	1 700 000	1 200 000	1 200 000	1 200 000	1 200 000	2n
United States	12 800 000	15 700 000	16 200 000	16 600 000	17 000 000	1e
Vietnam	5 000	5 000	0	0	0	2n
Yemen	120 000	120 000	100 000	100 000	100 000	2n
Total	157 858 369	166 404 699	166 468 806	164 136 904	174 640 361	

KAOLIN

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	100 970	42 504	181 068	51 000	96 000	1e
Argentina	66 574	67 000	40 000	49 000	50 000	2n
Australia	80 202	207 927	169 904	153 365	156 354	1e
Austria	13 497	11 558	14 343	12 894	13 558	1e
Bosnia-Herzegovina	149 495	96 563	98 325	252 268	271 502	1e
Brazil	2 388 000	2 139 000	2 055 000	1 653 856	1 916 995	1e
Bulgaria	252 100	281 600	321 700	314 900	338 600	1a
Chile	60 429	60 000	60 000	60 000	60 000	1e
China	6 250 000	6 550 000	6 850 000	7 030 000	7 240 000	1e
Cuba	4 000	3 600	1 700	1 500	2 500	1e
Czech Republic	3 318 000	3 108 000	3 281 000	3 454 000	3 540 000	1a
Ecuador	42 564	100 195	40 236	64 486	4 110	1e
Egypt	300 000	300 000	300 000	300 000	300 000	2n
Eritrea	200	200	200	200	200	2n
Ethiopia	4 000	3 534	3 500	3 500	3 500	2n
France	308 000	300 000	310 000	275 150	263 993	1e
Germany	4 398 796	4 348 562	4 275 422	3 733 714	4 740 000	1e
Guatemala	1 866	1 342	1 285	1 101	793	1e
India	4 258 697	4 781 519	3 861 380	4 770 000	4 110 000	2b
Indonesia	623 300	739 900	753 000	683 000	680 000	2n
Iran	800 000	946 388	820 067	791 193	868 179	1a
Iraq	3 000	0	0	0	0	2n
Italy	200 000	577 249	384 891	305 327	408 810	1e
Japan	12 000	13 000	13 000	12 000	12 000	2n
Jordan	76 000	80 000	100 000	60 000	11 935	1a
Kenya	1 100	1 100	1 100	1 100	1 000	2n
Korea, South	514 841	532 050	429 081	356 866	366 511	1e
Kyrgyzstan	124 500	187 400	200 000	200 000	200 000	2n
Malaysia	438 923	293 480	219 652	294 693	284 023	1e
Mexico	514 730	669 860	546 437	366 049	452 070	1a
New Zealand	11 578	13 066	61 382	13 659	61 650	1e
Nigeria	16 630	20 000	19 200	20 000	24 104	1e

Abbreviations: see Explanation

DATA

Oman	139 500	114 700	66 600	169 500	188 300	1e
Pakistan	22 000	22 917	16 191	18 956	21 683	1a
Paraguay	10 000	10 000	10 000	6 000	6 000	2n
Peru	34 586	32 249	19 964	43 251	19 262	1e
Philippines	4 631	6 568	7 050	7 000	8 000	1e
Poland	249 090	267 730	277 900	286 650	299 830	1e
Portugal	321 039	248 008	269 073	247 482	261 912	1e
Romania	116	32 722	30 638	31 000	31 000	2n
Russia	50 000	50 000	45 000	50 000	50 000	2n
Saudi Arabia	137 000	101 000	106 000	147 321	196 000	1e
Serbia	69 487	70 000	90 000	110 000	110 000	2n
Slovakia	3 000	6 000	5 900	5 900	11 923	1e
South Africa	20 500	22 295	27 258	20 126	21 141	1e
Spain	402 251	410 717	344 414	391 960	330 000	3a
Sri Lanka	11 805	12 990	12 000	12 000	13 000	2n
Sudan	11 579	26 000	50 000	14 490	6 500	1e
Taiwan	26 376	15 963	1 808	732	1 000	2n
Tanzania	1 422	907	3 809	1 953	2 000	2n
Thailand	141 764	119 512	123 621	102 763	101 618	1e
Turkey	988 081	1 168 441	2 032 103	1 887 302	1 283 260	1a
Uganda	42 886	43 875	46 286	40 774	45 909	1e
Ukraine	1 218 000	1 179 380	1 426 447	1 814 786	2 335 004	1e
United Kingdom	1 150 000	1 110 000	1 090 000	1 014 000	1 020 000	2n
United States	5 900 000	6 140 000	6 250 000	6 030 000	5 170 000	1e
Uzbekistan	300 000	70 286	64 605	196 350	323 680	1e
Venezuela	2 447	2 793	0	0	0	2n
Vietnam	650 000	650 000	650 000	650 000	650 000	2n
Total	37 241 552	38 411 650	38 479 540	38 585 117	38 985 409	

MAGNESITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	592 800	507 367	590 955	663 212	469 455	1e
Austria	778 810	714 422	754 096	702 504	565 892	1e
Bosnia-Herzegovina	900	0	0	200	7 300	1n
Brazil	479 304	557 431	550 000	550 000	1 000 000	2n
Canada	150 000	150 000	150 000	150 000	150 000	2n
China	16 000 000	17 000 000	18 430 000	17 440 000	16 840 000	1e
Finland		0	12 276	22 390	54 227	1e
Greece	351 266	383 000	360 268	383 230	397 940	1a
Guatemala	27 132	17 196	24 268	25 000	23 954	1e
India	224 315	196 940	285 009	327 663	299 167	1e
Iran	143 000	170 741	165 886	165 073	145 223	1a
Korea, North	150 000	180 000	180 200	154 000	167 000	2e
Mexico	100 724	101 000	100 000	101 000	101 000	1a
Nepal		0	225	60	0	1a
Pakistan	5 544	6 705	3 770	4 581	35 228	1a
Philippines	4 822	5 998	6 200	6 200	6 200	2n
Poland	84 000	97 000	92 000	96 000	77 920	1e
Russia	1 400 000	1 400 000	1 400 000	1 300 000	1 188 900	1e
Saudi Arabia	39 000	63 400	71 000	77 000	100 000	1e
Serbia	20 000	24 000	24 000	20 000	25 000	1n

Abbreviations: see Explanation

DATA

Slovakia	1 008 460	933 200	887 500	878 400	683 400	1a
South Africa	12 878	8 219	10 000	10 000	28 000	1n
Spain	649 977	836 269	679 348	464 691	386 000	3a
Turkey	2 475 828	2 597 465	2 377 157	3 335 258	3 258 445	1a
Total	24 698 760	25 950 353	27 154 158	26 876 462	26 010 251	

PERLITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	24 663	24 737	22 680	23 282	24 000	2n
Armenia	0	77 784	84 904	57 657	44 820	1e
Australia	940	1 300	0	0	620	1e
Chile	0	4 800	800	3 000	5 500	1e
Greece	876 396	890 000	985 328	890 670	921 410	1a
Hungary	70 000	31 024	32 750	31 275	31 000	2n
Iran	30 000	55 101	42 646	63 030	17 083	1a
Mexico	29 950	27 200	26 000	13 000	19 000	1a
New Zealand	3 598	0	0	0	0	1e
Philippines	9 221	14 249	17 134	17 000	17 000	2n
Russia	45 000	45 000	45 000	45 000	45 000	2n
Slovakia	24 000	16 000	17 000	25 000	25 000	2n
South Africa	1 740	1 078	1 000	1 000	1 000	2n
Thailand	41 400	14 293	54 100	17 200	15 690	1e
Turkey	887 600	1 075 949	897 125	843 242	1 066 251	1a
United States	393 000	471 000	462 000	488 000	513 000	1e
Total	2 437 508	2 749 515	2 688 467	2 518 356	2 746 374	

PHOSPHATES (P₂O₅-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	425 100	391 000	482 100	438 200	433 500	1e
Australia	547 400	474 790	448 500	236 375	238 494	1e
Brazil	2 388 000	2 504 000	2 521 000	2 167 000	2 012 500	1n
Burkina Faso	650	650	0	0	0	2n
Chile	4 370	4 190	6 400	5 470	1 740	1e
China	28 588 800	32 553 000	36 131 400	42 611 700	43 319 400	1e
Christmas Island	154 560	132 250	154 330	177 100	148 120	1n
Colombia	18 750	19 000	20 000	22 630	10 720	1e
Egypt	712 500	1 788 700	1 305 300	1 401 000	1 595 000	2b
Finland	308 900	315 800	340 640	344 360	338 230	1e
India	458 800	338 910	363 060	337 550	270 550	2e
Indonesia	400	0	0	0	0	2n
Iran	110 000	113 600	36 527	65 342	77 912	1a
Iraq	43 530	63 800	25 000	0	40 000	2n
Israel	948 500	966 100	906 400	1 039 000	1 065 700	1e
Jordan	2 042 530	1 727 550	2 285 990	2 667 520	2 557 170	1e
Kazakhstan	438 800	410 500	349 500	387 100	348 600	1a
Korea, North	95 000	95 000	95 000	95 000	95 000	2n
Malawi	2 110	2 000	1 900	2 110	2 100	1e

Abbreviations: see Explanation

DATA

Mexico	517 400	717 435	520 040	578 830	988 280	1a
Morocco	8 643 000	8 441 700	8 748 400	8 388 700	8 601 000	1e
Nauru	167 600	136 800	58 000	45 700	39 800	1e
Pakistan	12 490	18 890	18 350	15 230	20 730	1a
Peru	3 931 450	5 640 080	4 136 020	4 241 420	4 013 220	1e
Philippines	3 283	3 887	4 340	4 500	4 500	2n
Russia	3 900 000	4 095 000	4 732 000	4 524 000	4 836 000	1n
Saudi Arabia	306 600	364 000	382 200	1 015 100	1 080 000	1e
Senegal	500 350	342 120	309 820	589 110	886 500	1n
South Africa	784 800	746 100	703 900	648 300	593 800	1e
Sri Lanka	16 650	17 190	21 910	18 380	14 120	1e
Syria	460 000	270 000	370 000	225 000	100 000	2n
Tanzania	6 000	225 060	162 360	49 020	5 200	1e
Thailand	1 990	350	500	0	0	1e
Togo	399 850	441 164	394 600	418 100	306 600	1e
Tunisia	801 100	952 200	1 097 400	936 200	1 062 400	1e
Turkey	9 500	153 000	181 200	214 000	231 800	1a
United States	8 590 000	8 930 000	7 110 000	7 710 000	7 615 000	1e
Uzbekistan	154 800	155 000	136 510	166 800	170 000	1n
Venezuela	42 430	29 780	10 030	7 370	5 000	2n
Vietnam	709 140	796 830	741 270	877 020	854 820	3e
Zimbabwe	5 040	0	0	0	0	1e
Total	67 252 173	74 377 426	75 311 897	82 670 237	83 983 506	

POTASH (K₂O-CONTENT)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Belarus	4 831 000	4 242 700	6 340 000	6 468 000	6 180 100	1e
Brazil	346 509	310 892	311 021	293 000	300 000	1e
Canada	8 976 000	10 196 090	10 817 955	11 461 530	10 768 369	1e
Chile	1 052 500	1 193 390	1 167 980	1 179 560	1 303 840	1e
China	3 900 000	4 300 000	4 400 000	5 714 000	5 783 000	1e
Germany	3 149 386	3 075 201	3 126 913	3 056 528	2 694 126	1e
Iran	0	3 600	449 700	632 100	929 400	1a
Israel	1 943 900	1 893 300	1 830 600	1 281 000	2 093 100	1e
Jordan	1 112 640	1 063 840	1 275 460	1 436 550	1 222 140	1e
Laos	26 600	82 500	189 400	255 100	198 600	1e
Russia	5 507 000	6 048 000	7 260 000	6 840 000	6 480 000	1n
Spain	527 060	711 272	706 664	667 959	672 246	3a
United Kingdom	568 530	580 000	600 000	610 000	460 000	1n
United States	900 000	960 000	850 000	740 000	500 000	1e
Uzbekistan	108 000	84 600	96 360	103 000	83 000	1n
Total	32 949 125	34 745 385	39 422 053	40 738 327	39 667 921	

SALT

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Afghanistan	145 303	40 992	87 014	88 183	56 928	1e
Albania	25 000	30 575	24 700	22 100	15 500	1e
Algeria	190 000	188 000	192 982	175 500	158 000	1e

Abbreviations: see Explanation

DATA

Angola	45 000	45 000	45 000	47 845	93 000	1e
Argentina	1 843 975	1 652 000	1 500 000	1 500 000	1 600 000	2n
Armenia	172 422	135 938	149 398	142 605	68 435	1e
Australia	13 263 665	13 503 221	13 573 324	11 903 561	10 915 357	1e
Austria	958 187	1 115 410	1 154 309	974 475	1 034 003	1e
Azerbaijan	28 550	32 021	35 156	39 461	63 931	1e
Bahamas	659 671	956 789	1 495 158	970 393	308 007	1e
Bangladesh	1 634 000	1 753 000	1 627 000	1 282 000	1 555 000	1e
Belarus	2 176 650	2 600 000	1 800 000	2 050 000	2 300 000	2n
Benin	4 800	4 800	4 000	4 000	4 000	2n
Bolivia	1 905	2 262	2 419	2 216	4 534	1a
Bosnia-Herzegovina	743 807	727 894	819 327	869 750	966 177	1e
Botswana	367 749	521 306	515 311	404 295	399 837	1e
Brazil	7 481 870	7 275 453	7 501 051	7 500 000	7 600 000	2n
Bulgaria	2 100 000	2 000 000	3 300 000	3 100 000	3 300 000	1a
Cambodia	80 000	147 000	270 000	174 000	148 900	1e
Canada	10 852 635	12 209 108	14 161 562	14 286 373	10 290 332	1e
Cape Verde	1 000	1 000	1 000	1 000	1 000	2n
Chile	8 057 130	6 576 960	10 553 440	11 831 116	8 139 914	1e
China	69 117 800	64 603 000	64 338 000	59 750 000	63 095 000	1e
Colombia	520 268	432 410	445 840	417 438	564 194	1e
Croatia	17 642	15 700	0	111 978	112 000	2n
Cuba	215 900	222 400	243 300	284 900	248 000	1e
Denmark	600 000	600 000	600 000	600 000	600 000	1e
Dominican Republic	18 170	7 690	23 670	25 890	26 000	2n
Egypt	2 809 000	2 802 000	2 194 000	1 543 000	1 500 000	2n
El Salvador	103 100	100 000	100 000	100 000	100 000	1n
Eritrea	28 000	28 000	28 000	28 000	28 000	2n
Ethiopia	320 000	318 402	320 000	320 000	320 000	2n
France	6 850 000	6 300 000	6 932 600	6 754 200	6 750 000	2n
Germany	14 646 485	17 389 096	13 330 692	13 957 574	14 335 123	1e
Ghana	250 000	250 000	250 000	250 000	250 000	2n
Greece	191 970	189 500	146 402	121 537	158 020	1a
Guatemala	50 000	0	0	0	0	1e
Honduras	25 000	30 000	54 400	45 400	59 000	1e
Iceland	5 000	5 000	5 000	5 000	5 000	2n
India	24 546 900	23 019 300	26 887 100	27 643 700	29 192 000	1e
Indonesia	1 855 290	872 710	1 877 170	2 186 600	141 000	1e
Iran	2 962 000	2 078 682	3 940 112	4 448 463	2 995 025	1a
Iraq	143 440	182 000	180 000	180 000	180 000	2n
Israel	415 000	442 000	459 742	333 300	420 000	2n
Italy	2 862 440	3 543 881	3 200 000	3 030 687	2 550 849	1e
Jamaica	14 587	14 166	14 169	14 379	15 354	1e
Japan	925 000	929 000	928 000	938 000	928 000	1e
Jordan	32 000	10 000	8 000	10 000	10 000	2n
Kazakhstan	463 960	531 429	596 508	608 627	730 283	1e
Kenya	9 980	8 895	18 936	21 201	23 425	1e
Korea, North	500 000	500 000	500 000	500 000	500 000	2n
Korea, South	308 847	421 259	303 510	342 844	323 470	1e
Kuwait	12 000	65 243	56 273	64 289	65 000	2n
Kyrgyzstan	2 700	3 900	5 300	4 744	4 900	1e
Laos	47 600	50 000	51 000	35 100	36 398	1e
Lebanon	20 000	20 000	15 000	15 000	15 000	2n
Libya	40 000	30 000	30 000	30 000	30 000	2n
Madagascar	75 000	75 000	80 000	80 000	80 000	2n
Malta	6 000	6 000	6 000	5 000	5 000	2n
Mexico	10 100 935	10 126 601	10 520 508	9 718 027	9 785 053	1a
Mongolia	2 461	2 179	1 852	1 686	478	1e

Abbreviations: see Explanation

DATA

Montenegro	16 000	10 000	0	0	0	1e
Morocco	144 200	488 300	439 160	555 760	634 610	1e
Mozambique	110 000	120 000	150 000	150 000	160 000	2n
Myanmar	207 261	169 109	187 616	129 478	221 270	1e
Namibia	810 000	826 985	797 405	732 980	835 539	1e
Netherlands	6 513 000	6 518 000	6 485 000	6 742 969	6 625 418	1e
New Zealand	76 000	60 000	65 000	101 000	100 000	2n
Nicaragua	30 000	50 000	55 200	55 000	55 000	2n
Oman	12 800	11 800	12 900	12 600	12 100	1e
Pakistan	2 135 760	2 159 939	2 530 507	2 404 116	3 867 325	1a
Panama	15 596	27 197	25 660	23 267	23 470	1e
Peru	1 242 765	1 205 435	1 175 157	1 471 131	1 450 415	1e
Philippines	774 820	992 640	1 050 000	1 000 000	1 238 610	1e
Poland	3 524 700	4 056 000	4 265 085	3 468 000	4 079 000	1e
Portugal	520 284	473 095	69 702	30 008	15 348	1e
Romania	2 338 749	2 397 398	2 058 292	2 180 000	2 100 000	1e
Russia	3 187 000	3 008 000	4 338 000	4 377 000	4 520 000	1e
Saudi Arabia	1 611 000	1 900 000	1 990 000	2 080 000	2 000 000	1e
Senegal	237 385	238 888	249 224	268 176	263 218	1e
Serbia	16 506	13 704	12 994	13 202	9 149	1e
Slovenia	5 684	3 360	0	2 191	2 417	1e
South Africa	399 135	477 038	493 798	517 159	487 569	1e
Spain	4 108 662	4 309 839	4 269 637	4 589 545	3 885 940	3a
Sri Lanka	63 861	36 920	102 018	29 243	106 063	1e
Sudan	26 315	20 800	37 295	20 136	22 340	1e
Switzerland	518 200	586 400	434 500	476 900	477 000	2n
Syria	34 000	34 000	30 000	30 000	20 000	2n
Taiwan	70 750	80 966	81 893	78 300	80 000	2n
Tajikistan	27 900	31 000	34 553	35 554	35 238	1e
Tanzania	34 000	34 000	54 757	168 900	178 200	1e
Thailand	1 363 539	1 300 156	1 381 067	1 385 911	1 390 548	1e
Tunisia	1 244 000	1 293 880	1 124 019	1 280 000	1 130 000	2e
Turkey	5 378 208	5 613 506	5 331 412	6 257 320	5 328 256	1e
Turkmenistan	220 000	100 000	91 651	100 000	100 000	2n
Ukraine	6 181 000	5 796 287	2 497 706	2 136 500	1 783 530	1e
United Kingdom	6 460 000	6 930 000	4 690 000	4 600 000	4 600 000	2n
United States	37 200 000	39 900 000	45 300 000	45 100 000	42 000 000	2e
Venezuela	661 000	508 000	610 000	642 000	640 000	2n
Vietnam	776 400	718 700	905 600	1 061 000	933 200	3e
Yemen	85 000	85 000	85 000	70 000	50 000	2n
Total	280 329 274	280 330 514	291 015 043	286 270 783	276 665 200	

SULFUR

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Algeria	10 400	8 400	5 800	5 000	6 000	2n
Armenia	42 900	51 000	10 300	10 400	8 500	1e
Australia	860 000	860 000	900 000	900 000	900 000	2b
Austria	10 329	9 789	8 280	8 502	5 474	1e
Bahrain	126 500	131 100	133 650	126 780	123 630	1e
Brazil	519 000	560 000	540 000	530 000	530 000	1e
Bulgaria	325 000	325 000	325 000	325 000	258 000	2n
Canada	6 259 000	6 301 000	5 842 000	5 745 000	5 317 000	1e
Chile	1 714 100	1 770 600	1 842 700	1 868 900	1 866 500	1e

Abbreviations: see Explanation

DATA

China	9 900 000	10 500 000	12 000 000	10 000 000	9 150 000	1e
Colombia	63 790	52 470	48 513	63 236	63 500	2n
Denmark	3 925	3 599	4 435	93 024	6 144	1e
Egypt	80 000	80 000	80 000	80 000	80 000	2n
Finland	830 000	828 000	845 000	847 000	781 400	1n
France	500 000	400 000	400 000	380 000	380 000	2n
Germany	798 257	754 540	708 146	627 797	577 684	1e
Greece	227 197	230 000	220 000	155 000	185 000	2n
India	2 240 804	2 263 625	2 564 808	2 741 100	2 927 500	1e
Indonesia	500 000	540 000	540 000	540 000	540 000	2n
Iran	2 000 000	2 100 000	2 100 000	2 200 000	2 200 000	2b
Iraq	20 000	37 500	37 000	40 000	40 000	2n
Italy	740 000	740 000	740 000	666 600	675 700	1e
Japan	3 397 250	3 464 700	3 502 600	3 420 900	3 517 800	1n
Jordan	275 700	268 800	304 800	254 900	130 000	2n
Kazakhstan	2 600 000	2 900 000	2 950 000	3 150 000	2 850 000	1n
Korea, North	42 000	42 000	42 000	42 000	42 000	2n
Korea, South	1 750 000	1 750 000	1 800 000	1 960 000	2 000 000	1e
Kuwait	844 300	850 000	823 860	753 500	850 000	2b
Libya	138 000	70 000	97 000	90 000	75 000	1e
Lithuania	73 050	81 400	76 600	84 000	94 520	1e
Mexico	1 011 900	1 030 259	992 939	858 527	673 285	1a
Norway	110 000	130 000	130 000	110 000	110 000	2n
Oman	53 490	32 800	41 950	43 295	35 560	1e
Pakistan	25 560	20 610	35 672	19 730	14 869	1a
Peru	503 900	561 900	533 800	565 500	543 700	1e
Philippines	39 300	25 500	84 800	1 026 400	1 134 400	1e
Poland	962 200	833 900	629 620	651 420	645 000	1e
Qatar	1 844 000	2 000 000	2 136 000	2 299 700	2 068 000	1n
Russia	6 750 000	6 800 000	7 300 000	6 720 000	6 960 000	2b
Saudi Arabia	3 400 000	3 900 000	4 400 000	4 900 000	4 900 000	2b
South Africa	257 019	270 173	277 018	284 381	280 830	1e
Spain	680 000	640 000	650 000	520 000	502 000	2n
Taiwan	231 296	192 292	195 280	211 200	195 100	2n
Turkey	112 900	112 700	98 800	78 600	78 000	2a
Turkmenistan	200 000	300 000	505 905	600 000	400 000	2n
Ukraine	130 000	120 000	120 000	120 000	120 000	2n
United Arab Emirates	2 000 000	2 100 000	2 300 000	2 000 000	2 200 000	2n
United Kingdom	158 000	313 000	134 000	135 000	135 000	2n
United States	9 000 000	9 210 000	9 640 000	9 540 000	9 740 000	1e
Venezuela	800 000	800 000	800 000	700 000	700 000	2b
Zambia	310 000	310 000	300 000	300 000	363 000	1n
Total	65 471 067	67 676 657	70 798 276	69 392 392	67 980 096	

TALC

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	23 576	24 000	25 000	25 000	24 000	2n
Australia	83 402	105 000	120 000	115 000	100 000	2n
Austria	134 665	134 814	131 108	122 326	123 040	1e
Bhutan	16 063	9 584	12 601	5 807	2 261	1e
Brazil	459 539	592 844	644 478	700 000	750 000	2n
Canada	130 000	175 000	90 000	175 000	202 000	1e
Chile	730	0	0	0	0	1e

Abbreviations: see Explanation

DATA

China	2 200 000	2 200 000	2 200 000	2 200 000	2 000 000	1e
Egypt	21 516	63 358	20 000	24 360	30 000	2n
Finland	396 332	361 840	380 821	332 174	345 739	1e
France	400 000	400 000	450 000	450 000	450 000	2n
Guatemala	2 449	3 254	3 368	3 779	2 733	1e
India	1 219 746	1 112 602	921 712	920 000	950 000	2n
Iran	116 000	92 958	52 492	150 965	87 899	1a
Italy	140 000	162 234	165 000	165 000	165 000	2n
Japan	365 000	370 000	375 000	375 000	375 000	2n
Korea, North	50 000	50 000	50 000	50 000	40 000	2n
Korea, South	504 758	527 609	628 349	603 231	592 247	1e
Macedonia	286	621	483	598	715	1e
Mexico	463 214	846 813	752 077	20 452	11 392	1a
Morocco	200	0	0	0	0	2n
Nepal	6 935	5 140	5 703	5 255	1 860	1e
Norway	7 983	0	0	0	0	2n
Pakistan	55 515	93 214	89 022	116 223	125 985	1a
Peru	61 958	64 577	46 706	52 967	29 379	1e
Portugal	15 131	11 348	14 942	11 204	11 699	1e
Romania	13	0	0	0	0	2n
Russia	160 000	160 000	150 000	150 000	150 000	2n
Saudi Arabia	8 000	6 000	7 000	8 000	42 000	1e
Slovakia	2 000	2 000	3 300	1 400	800	1a
South Africa	23 499	22 303	27 327	21 849	23 576	1e
Spain	8 857	0	0	0	0	3a
Sudan			0	3 000	4 250	1e
Taiwan	778	362	133	162	160	2n
Thailand	40 856	34 700	57 308	52 268	103 926	1e
Turkey	99 788	103 004	114 414	182 362	203 214	1e
United Kingdom	3 667	2 947	4 907	5 430	5 500	2n
United States	515 000	542 000	609 987	615 000	536 000	1e
Uruguay	370	708	360	585	290	1e
Total	7 737 826	8 280 834	8 153 598	7 664 397	7 490 665	

VERMICULITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Argentina	320	0	0	0	0	2n
Australia	9 256	9 091	0	0	0	1e
Brazil	51 986	60 379	56 444	70 000	58 000	2n
China	90 000	50 000	50 000	50 000	50 000	2n
Egypt	2 093	2 750	2 700	3 000	3 000	2n
India	7 947	11 851	15 327	23 279	6 543	1e
Iran	1 200	1 200	1 200	1 000	1 000	2n
Japan	6 000	6 200	6 200	6 000	6 000	2n
Kenya	457	400	440	410	100	2n
Mexico	500	425	226	299	310	1e
Russia	21 800	20 900	21 000	21 000	20 000	2b
South Africa	132 886	127 658	143 007	138 290	166 483	1e
Turkey		1 604	716	425	1 050	1e

Abbreviations: see Explanation

DATA

Uganda	51 962	2 296	2 661	1 213	3 295	1e
United States	100 000	100 000	100 000	100 000	100 000	2e
Zimbabwe	21 625	28 808	30 740	30 868	29 316	1e
Total	498 032	423 562	430 661	445 784	445 097	

ZIRCONIUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	605 000	388 000	752 826	687 326	559 800	1e
Brazil	20 425	24 687	23 659	24 000	24 000	2n
China	150 000	150 000	140 000	140 000	100 000	1e
India	21 125	20 626	18 891	18 437	18 000	2n
Indonesia	109 000	49 400	21 000	30 900	34 800	1n
Kenya		0	15 004	25 951	39 687	1e
Madagascar	31 242	31 345	27 275	12 500	12 250	1n
Malaysia	442	379	677	826	653	1e
Mozambique	46 900	31 400	50 800	51 800	68 200	1n
Nigeria	894	1 527	1 034	1 825	891	1e
Russia	7 969	8 504	7 930	8 180	7 704	1n
Senegal		0	9 040	45 248	52 627	1n
Sierra Leone	612	2 950	2 416	1 389	1 000	1n
South Africa	367 190	224 446	398 101	397 420	370 540	1n
Sri Lanka	293	228	1 335	614	4 117	1e
Turkey	200	0	1 100	1 500	500	1a
Ukraine	29 000	41 000	35 000	30 000	29 280	1n
United States	85 000	78 000	65 000	60 000	50 000	2n
Vietnam	26 000	26 000	15 730	8 000	9 300	1n
Total	1 501 292	1 078 492	1 586 818	1 545 916	1 383 349	

6.4.5 MINERAL FUELS

STEAM COAL

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Afghanistan	1 239 900	1 347 000	1 517 400	1 364 800	1 698 200	1e
Argentina	72 000	65 150	46 300	27 500	19 160	1e
Australia	215 765 000	236 601 000	247 956 000	256 014 000	250 401 000	1p
Bangladesh	835 000	854 804	947 125	675 775	1 021 638	1e
Bhutan	98 731	77 744	121 891	85 164	117 783	1e
Botswana	1 454 724	1 495 653	1 711 555	2 065 778	1 870 939	1e
Brazil	3 453 590	4 955 596	4 518 466	3 644 350	3 525 735	1e
Bulgaria	7 200	23 400	0	9 600	5 900	1a
Canada	25 914 000	25 876 000	28 966 000	26 959 000	26 039 000	1p
Chile	711 714	2 902 444	4 168 185	3 161 726	2 525 171	1e
China	2 950 106 000	2 984 054 000	2 847 246 000	2 812 582 000	2 491 793 000	1p
Colombia	84 118 000	80 600 000	83 468 235	80 716 510	86 382 000	1p
Czech Republic	6 031 730	4 042 400	3 930 280	3 884 180	3 095 300	1a
France	290 000	313 000	300 000	0	0	1e
Georgia	444 284	397 000	299 300	305 900	296 500	1e

Abbreviations: see Explanation

DATA

Germany	4 878 800	3 209 700	3 224 800	2 626 600	1 807 100	1e
India	504 820 000	508 947 000	551 733 000	578 343 000	601 131 000	1e
Indonesia	446 354 000	489 462 000	487 284 000	452 537 000	459 469 000	1p
Iran	104 000	183 000	166 000	186 000	208 000	1p
Italy	80 000	62 107	86 000	73 000	59 000	1e
Kazakhstan	99 823 000	99 916 000	89 185 000	84 773 000	82 142 000	1p
Korea, North	30 288 000	29 942 000	30 831 000	35 208 000	35 208 000	1p
Korea, South	2 094 000	1 815 000	1 748 000	1 764 050	1 727 046	1e
Kyrgyzstan	153 000	251 000	291 700	228 000	244 000	1p
Laos	129 927	104 260	105 564	106 028	138 809	1e
Malawi	70 552	67 024	63 673	58 774	43 338	1e
Malaysia	2 941 620	2 907 463	2 687 764	2 559 444	2 414 764	1e
Mexico	13 656 051	13 065 353	13 453 540	7 492 620	8 130 459	1a
Mongolia	11 684 000	12 684 000	14 126 000	3 926 000	4 306 000	2p
Mozambique	1 962 200	2 312 973	2 546 586	1 813 717	2 203 430	1e
Myanmar	782 000	535 000	642 000	697 000	535 000	2p
Nepal	10 904	14 084	8 151	6 754	2 900	1e
New Zealand	2 526 000	2 184 000	1 901 000	1 732 000	1 359 000	1p
Niger	235 072	241 792	255 936	221 024	246 631	1e
Nigeria	62 410	40 360	127 467	144 880	989 155	1e
Norway	1 325 655	2 067 522	1 701 077	1 203 382	960 341	1n
Pakistan	3 178 986	2 813 079	3 340 192	3 407 659	3 749 312	1a
Peru	226 908	211 885	229 213	251 788	266 236	1e
Philippines	7 853 530	7 564 790	8 420 000	8 170 000	12 087 000	1e
Poland	68 117 000	64 601 000	60 252 000	59 191 000	57 213 000	1p
Romania	43 000	47 000	80 000	10 000	47 000	1p
Russia	206 200 000	204 900 000	211 800 000	215 500 000	226 526 100	1e
South Africa	257 009 000	252 928 000	257 308 000	255 572 000	253 452 000	1p
Spain	3 910 732	2 574 258	2 607 182	1 557 251	672 878	3a
Swaziland	152 284	257 090	177 930	141 733	158 418	1e
Tajikistan	412 000	518 000	878 131	1 042 491	1 361 575	1e
Tanzania	78 672	128 920	246 128	255 884	278 701	1e
Turkey	2 223 000	2 050 000	1 815 000	1 525 000	1 817 000	1p
Ukraine	44 826 000	44 764 000	33 634 000	23 852 700	25 121 500	1e
United Kingdom	15 901 000	12 493 000	11 549 000	8 526 000	4 124 800	1e
United States	768 014 000	743 730 000	760 930 000	689 985 000	553 936 000	1p
Uzbekistan	75 800	56 000	407 249	412 000	160 000	1e
Venezuela	1 910 801	1 229 309	800 640	801 697	947 000	1p
Vietnam	42 083 000	41 064 000	41 086 000	41 664 000	38 527 000	3e
Zambia	90 493	415 233	159 151	103 439	126 050	1n
Zimbabwe	2 614 000	2 665 000	5 361 000	3 910 000	2 273 000	1p
Total	5 839 443 270	5 898 627 393	5 828 445 811	5 683 076 198	5 254 960 869	

COKING COAL

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	146 944 000	159 494 200	180 295 000	191 056 000	189 302 000	1p
Canada	31 086 000	34 063 000	32 500 000	26 547 000	25 960 000	1p
China	555 695 000	600 694 000	619 764 000	593 047 000	591 998 000	1p
Colombia	4 906 000	4 893 000	5 104 123	4 823 870	4 130 000	1p
Czech Republic	4 764 270	4 567 610	4 410 720	3 755 820	2 978 700	1a
Germany	5 891 200	4 356 700	4 415 100	3 596 100	2 041 900	1e
India	51 582 000	56 818 000	57 446 000	60 887 000	61 661 000	1e
Indonesia	4 237 000	2 244 000	1 022 000	985 000	1 013 000	1p

Abbreviations: see Explanation

DATA

Iran	937 000	922 000	909 000	909 000	1 018 000	1p
Kazakhstan	12 956 000	12 968 000	17 906 000	17 020 000	10 498 000	1p
Mexico	2 166 046	2 216 314	2 561 600	2 439 408	5 551 135	1a
Mongolia	9 339 000	6 933 000	6 165 000	13 144 000	22 842 000	2p
Mozambique	2 991 794	3 556 776	3 784 603	4 786 612	3 862 959	1e
New Zealand	2 075 000	2 152 000	1 760 000	1 333 000	1 213 000	1p
Poland	11 738 000	12 116 000	12 288 000	12 985 000	13 082 000	1p
Russia	72 700 000	74 400 000	76 300 000	82 900 000	83 800 000	1e
South Africa	1 566 000	3 354 000	3 232 000	2 978 000	3 467 000	1p
Turkey	1 113 000	817 000	861 000	767 000	732 000	1p
Ukraine	20 879 000	19 663 000	12 297 000	6 063 900	6 508 800	1e
United Kingdom	386 000	179 000	99 000	72 000	53 000	1e
United States	81 300 000	77 857 000	72 717 000	57 521 000	50 645 000	1p
Zimbabwe	430 000	449 000	422 000	426 000	429 000	1p
Total	1 025 682 310	1 084 713 600	1 116 259 146	1 088 042 710	1 082 786 494	

LIGNITE

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Albania	1 000	0	0	276 000	16 800	1e
Australia	66 730 000	73 000 000	60 700 000	65 361 000	63 571 000	1p
Bosnia-Herzegovina	12 311 623	10 343 680	11 750 901	12 172 292	13 481 012	1e
Brazil	3 163 144	3 638 734	3 417 779	2 709 305	3 480 217	1e
Bulgaria	33 340 700	28 631 300	31 435 100	33 773 000	29 294 200	1a
Canada	9 496 000	8 969 000	8 570 000	8 425 000	8 979 000	1p
Czech Republic	43 710 000	40 585 000	38 348 000	38 251 000	38 646 000	1a
Germany	185 432 000	182 995 000	178 155 000	178 065 000	171 546 500	1e
Greece	62 334 803	55 500 000	50 800 000	46 308 120	32 674 790	1a
Hungary	9 297 500	9 552 700	9 553 700	9 263 180	9 263 270	1e
India	46 453 000	44 271 000	48 270 000	43 842 000	45 124 000	1e
Kazakhstan	7 748 000	6 690 000	6 894 000	5 526 000	5 041 300	1a
Korea, North	4 488 000	3 342 000	3 741 000	2 530 000	3 238 000	1p
Kosovo	8 028 397	8 219 393	7 204 211	8 240 994	8 800 848	1e
Kyrgyzstan	1 011 000	1 157 000	1 505 000	1 641 000	2 281 000	1p
Laos	575 387	403 925	26 320	4 464 068	13 097 121	1e
Macedonia	7 309 546	6 633 560	6 469 819	5 927 749	5 101 758	1e
Mongolia	6 802 000	6 330 000	6 073 000	5 755 000	6 332 000	2p
Montenegro	1 785 999	1 692 535	1 655 045	1 772 900	1 397 500	1e
Myanmar	62 000	42 000	50 000	54 000	42 000	2p
New Zealand	325 900	290 400	316 692	324 086	313 035	1e
Poland	64 280 000	65 849 000	64 002 000	63 135 000	60 273 000	1e
Romania	33 949 000	24 732 000	23 565 000	25 492 000	22 980 000	1e
Russia	78 100 000	73 700 000	68 900 000	73 600 000	73 500 000	1e
Serbia	37 930 437	39 513 474	29 204 294	37 029 091	37 652 520	1e
Slovakia	2 093 800	2 275 330	2 078 960	1 941 007	1 956 510	1a
Slovenia	4 281 326	3 721 188	3 108 203	3 168 001	3 348 889	1e
Spain	2 275 409	1 826 681	1 230 444	1 723 731	376 250	3a
Thailand	18 066 429	18 110 763	17 981 722	15 150 549	16 978 601	1e
Turkey	72 481 467	63 816 100	61 500 000	56 349 700	56 850 000	1p
United States	71 602 000	70 061 000	72 110 000	64 930 100	66 506 800	1e
Uzbekistan	3 784 000	4 034 000	3 989 586	3 988 000	3 717 400	1e
Total	899 249 867	859 926 763	822 605 776	821 188 873	805 861 321	

Abbreviations: see Explanation

NATURAL GAS

C o u n t r y	2012 Mio m ³	2013 Mio m ³	2014 Mio m ³	2015 Mio m ³	2016 Mio m ³	Rem
Afghanistan	160	155	142	146	165	1e
Albania	16	18	31	34	88	1e
Algeria	85 195	82 430	83 296	84 583	94 953	1e
Angola	740	910	720	770	1 913	1p
Argentina	37 730	35 530	35 450	36 490	38 270	1r
Australia	60 200	62 480	67 330	76 790	97 330	1e
Austria	1 729	1 359	1 245	1 183	1 253	1e
Azerbaijan	17 242	17 895	18 827	19 236	18 718	1e
Bahrain	13 390	14 670	15 400	15 350	15 200	1e
Bangladesh	21 056	22 670	23 223	25 264	27 558	1n
Barbados	23	21	21	20	20	2n
Belarus	218	228	222	225	215	1e
Bolivia	18 655	21 269	22 385	21 994	21 147	1a
Brazil	20 845	22 988	24 536	24 862	25 337	1e
Brunei	12 565	12 206	11 850	11 620	11 210	1r
Bulgaria	390	282	183	85	80	1a
Cameroon	0	150	310	370	360	1e
Canada	144 440	145 395	151 351	154 278	157 179	1e
Chile	1 207	893	907	1 044	1 175	1e
China	107 150	120 858	130 157	134 610	136 830	1e
Colombia	11 975	12 970	12 830	11 860	9 900	1e
Cote d'Ivoire	1 755	2 104	2 109	2 177	2 395	1e
Croatia	2 086	1 963	1 824	1 850	1 680	1n
Cuba	1 035	1 066	1 200	1 245	1 185	1e
Czech Republic	204	207	198	200	169	1a
Denmark	5 653	4 652	4 504	4 520	4 460	1e
Ecuador	517	515	578	497	530	1n
Egypt	60 880	56 070	48 790	44 250	41 820	1r
France	530	340	20	30	40	1e
Gabon	370	300	330	466	530	1e
Georgia	6	9	10	11	7	1e
Germany	11 706	10 678	10 060	9 323	8 608	1e
Ghana		0	50	570	530	1e
Greece	6	5	5	4	9	1a
Hungary	2 205	2 060	1 933	1 887	1 823	1e
India	40 679	35 407	33 657	32 249	30 866	1e
Indonesia	77 940	77 230	76 110	75 740	74 670	1e
Iran	166 160	166 780	185 840	189 370	202 440	1r
Iraq	650	1 180	900	1 030	1 130	1r
Ireland	200	160	140	120	2 750	1e
Israel	2 450	6 205	6 780	7 500	9 300	1p
Italy	8 605	7 735	7 149	6 771	5 785	1e
Japan	3 276	2 995	2 822	2 734	2 754	1e
Jordan	164	150	130	122	116	1e
Kazakhstan	40 299	42 405	43 438	45 506	46 676	1e
Korea, South	484	513	342	218	156	1e
Kuwait	15 515	16 311	15 029	16 909	17 291	1e
Kyrgyzstan	29	25	32	28	30	1e
Libya	11 070	11 620	11 300	11 800	10 090	1r
Malaysia	62 241	64 818	65 441	63 425	67 557	1e
Mexico	57 190	58 190	57 060	54 060	47 180	1r
Morocco	76	92	94	87	86	1p
Mozambique	3 896	4 350	4 710	5 050	5 160	1e

Abbreviations: see Explanation

DATA

Myanmar	13 220	13 660	18 500	19 700	18 490	1e
Netherlands	75 970	81 479	68 621	51 237	47 463	1e
New Zealand	4 277	4 526	5 016	4 596	4 878	1e
Nigeria	43 290	36 170	45 050	52 700	48 640	1e
Norway	114 723	108 746	108 824	117 117	116 654	1e
Oman	34 095	34 718	33 207	34 668	35 401	1e
Pakistan	44 150	42 646	42 302	41 511	41 958	1a
Papua New Guinea	149	156	1 639	2 941	3 128	1e
Peru	11 859	12 192	12 924	12 495	14 001	1e
Philippines	3 810	3 510	3 691	3 470	3 980	1e
Poland	5 871	5 886	5 258	5 214	5 073	1e
Qatar	157 050	177 600	174 060	178 470	181 250	1r
Romania	10 935	10 854	11 056	11 092	9 811	1e
Russia	654 500	668 200	641 900	635 500	641 000	1e
Saudi Arabia	99 330	100 030	102 380	104 450	110 860	1e
Senegal	39	41	35	23	21	1e
Serbia	484	468	467	432	399	1e
Slovakia	98	100	91	91	93	1a
Slovenia	2	3	3	3	4	1e
South Africa	1 167	824	1 061	1 312	807	1e
Spain	65	62	26	16	6	3a
Syria	6 230	5 120	4 740	4 160	3 740	1o
Taiwan	442	381	379	374	321	1e
Tajikistan	11	4	3	4	3	1e
Thailand	41 415	41 799	42 096	39 793	39 031	1e
Trinidad and Tobago	42 604	42 841	42 077	39 617	34 418	1e
Tunisia	2 825	2 859	2 611	2 529	2 246	1e
Turkey	664	562	502	399	382	1e
Turkmenistan	62 290	62 350	72 739	71 900	74 000	1e
Ukraine	19 800	21 300	20 100	19 900	20 052	1e
United Arab Emirates	54 310	54 600	54 240	60 180	61 860	1r
United Kingdom	39 597	37 308	37 680	40 466	41 607	1e
United States	680 550	685 430	733 120	766 410	755 010	1e
Uzbekistan	62 911	59 630	61 740	62 196	63 253	1p
Venezuela	29 480	28 450	28 640	32 420	34 290	1r
Vietnam	9 355	9 751	10 210	10 660	10 610	3e
Yemen	7 590	9 544	9 741	2 854	1 140	1p
Total	3 467 961	3 515 312	3 579 730	3 631 463	3 672 604	

OIL SHALES

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Austria	540	173	203	68	169	1e
Estonia	18 796 000	20 511 000	20 995 000	19 616 000	15 857 700	1e
France	2 000	2 000	2 000	2 000	2 000	2n
Germany	479 825	441 580	506 693	468 470	492 777	1e
Israel	423 000	420 900	395 600	420 100	423 000	1p
Total	19 701 365	21 375 653	21 899 496	20 506 638	16 775 646	

Abbreviations: see Explanation

PETROLEUM

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Albania	1 030 720	1 206 600	1 368 200	1 279 220	1 055 730	1e
Algeria	66 986 000	64 784 000	68 582 000	67 064 000	68 417 000	1e
Angola	86 878 000	87 308 100	83 022 700	88 701 200	87 896 900	1r
Argentina	27 426 800	26 881 400	26 492 600	26 508 000	25 487 000	1e
Australia	23 259 800	19 574 100	20 990 900	18 484 300	17 188 300	1e
Austria	917 349	917 148	944 832	905 931	809 189	1e
Azerbaijan	43 375 000	43 457 000	42 076 000	41 628 300	41 050 400	1e
Bahrain	2 261 000	2 384 100	2 428 600	2 518 200	2 422 200	1e
Bangladesh	250 000	264 600	321 000	417 400	559 240	1e
Barbados	37 140	34 710	31 960	34 030	34 000	2n
Belarus	1 660 000	1 645 000	1 645 000	1 645 000	1 645 000	1e
Bolivia	2 555 700	2 940 200	2 543 100	2 443 200	2 261 100	1a
Brazil	107 283 800	105 253 200	116 813 400	125 806 800	130 144 400	1e
Brunei	7 817 500	6 606 500	6 181 400	6 203 500	5 925 600	1r
Bulgaria	22 900	26 900	26 200	23 700	22 600	1a
Cameroon	3 052 100	3 311 200	3 751 100	4 770 500	4 595 300	1e
Canada	162 449 900	174 090 900	187 900 100	192 913 900	193 614 400	1e
Chad	5 478 000	4 830 600	4 980 000	5 976 000	5 478 000	1e
Chile	324 401	361 290	357 540	257 100	215 080	1e
China	207 478 000	209 919 000	211 429 000	214 555 800	199 685 000	1e
Colombia	47 126 200	49 895 120	49 308 600	50 058 800	44 226 200	1e
Congo, D.R.	1 165 600	1 139 120	1 140 580	1 124 940	1 068 970	1e
Congo, Rep.	13 444 200	12 057 800	12 483 600	12 139 600	11 553 600	1e
Cote d'Ivoire	1 469 100	1 246 700	941 400	1 464 300	2 104 100	1e
Croatia	593 400	573 100	575 960	657 550	684 000	1e
Cuba	2 998 900	2 897 100	2 905 300	2 822 000	2 539 800	1n
Czech Republic	150 000	152 000	148 000	126 000	116 000	1a
Denmark	10 000 220	8 697 319	8 131 039	7 689 812	6 924 112	1e
Ecuador	25 141 000	26 205 000	27 699 000	27 038 000	27 377 000	1e
Egypt	34 730 000	34 361 000	35 140 200	35 431 000	33 835 000	1r
Equatorial Guinea	13 546 000	13 297 000	13 994 000	14 392 000	13 944 000	1o
France	806 500	793 000	766 000	835 000	816 000	1e
Gabon	11 600 000	11 010 000	10 980 000	11 920 000	11 480 000	1e
Georgia	51 100	51 017	42 600	40 200	38 600	1e
Germany	2 621 352	2 638 379	2 429 789	2 412 643	2 355 028	1e
Ghana	4 133 800	5 266 500	5 328 400	5 351 200	4 614 000	1e
Greece	90 230	83 121	70 139	72 649	173 486	1a
Guatemala	528 700	497 200	500 400	499 800	448 100	1e
Hungary	649 706	610 000	594 000	633 072	732 702	1e
India	37 862 000	37 778 000	37 461 000	36 951 000	36 009 000	1e
Indonesia	42 920 400	41 033 200	39 269 800	39 121 400	36 674 800	1e
Iran	180 681 560	169 763 250	174 238 970	181 606 500	216 431 380	1r
Iraq	152 498 300	153 241 900	160 278 000	197 033 200	218 939 500	1r
Israel	4 360	63 220	81 960	76 170	76 000	1p
Italy	5 397 000	5 502 000	5 765 000	5 470 000	3 746 000	1e
Japan	714 700	618 500	579 700	536 700	494 000	1e
Jordan	1 100	1 100	800	500	400	1e
Kazakhstan	79 224 500	81 786 700	80 825 600	79 456 300	78 031 800	1e
Kuwait	148 284 500	145 650 100	142 766 600	142 363 300	147 124 100	1e
Kyrgyzstan	77 100	77 000	74 050	96 400	140 000	1e
Libya	71 218 900	46 549 300	23 391 000	20 283 000	20 043 400	1r
Lithuania	101 644	86 030	81 920	73 100	63 500	1e

Abbreviations: see Explanation

DATA

Malaysia	28 777 000	28 249 000	30 023 000	32 580 100	33 193 400	1e
Mauritania	329 300	334 800	296 000	263 700	235 600	1e
Mexico	143 857 280	141 845 650	137 097 680	127 515 080	121 350 560	1r
Mongolia	496 000	699 600	1 010 100	1 183 000	1 125 300	1e
Morocco	7 000	6 000	5 200	4 998	4 850	1e
Mozambique	55 700	56 810	40 690	63 720	65 080	1e
Myanmar	858 500	847 600	810 500	654 900	598 400	1e
Netherlands	1 513 900	1 558 700	1 943 700	1 844 700	1 273 800	1e
New Zealand	1 866 600	1 605 500	1 788 300	1 869 700	1 584 650	1e
Niger	633 200	886 300	853 400	744 600	820 300	1e
Nigeria	116 319 000	109 187 000	95 410 000	106 050 000	89 588 000	1e
Norway	88 482 600	84 299 800	86 345 200	88 922 200	91 345 400	1e
Oman	45 857 700	46 894 300	46 972 000	48 844 500	50 135 200	1e
Pakistan	3 233 300	3 663 100	4 155 885	4 627 053	4 246 335	1a
Papua New Guinea	1 430 600	1 490 500	2 395 600	2 951 500	2 907 400	1e
Peru	7 637 200	8 339 900	8 599 600	7 438 300	6 744 300	1e
Philippines	929 000	814 000	988 200	841 600	827 100	1e
Poland	680 000	962 000	918 750	898 870	957 050	1e
Qatar	82 206 000	80 286 150	79 436 400	79 115 200	79 443 000	1r
Romania	3 982 000	4 131 000	4 052 000	4 003 000	3 801 000	1e
Russia	518 100 000	523 300 000	526 650 000	533 551 300	547 306 140	1e
Saudi Arabia	549 834 000	538 426 000	543 441 000	567 750 600	585 699 600	1r
Senegal	7 700	15 800	30 100	22 900	3 320	1e
Serbia	1 124 794	1 234 000	1 310 000	1 050 000	960 000	1e
Slovakia	15 200	13 310	11 740	12 010	9 490	1a
Slovenia	339	412	461	359	379	1e
South Africa	136 081	80 154	88 803	70 978	38 796	1e
South Sudan	1 533 200	4 912 400	7 652 300	7 277 200	5 840 050	1r
Spain	143 526	367 568	305 253	229 568	139 176	3a
Sudan	5 101 400	6 151 600	3 951 500	3 914 700	4 228 400	1e
Suriname	810 200	815 700	836 100	842 950	815 700	1e
Syria	8 522 900	2 686 500	1 460 000	1 197 800	1 101 250	1r
Taiwan	9 800	9 000	7 800	7 900	7 200	1e
Tajikistan	29 949	27 000	24 508	24 630	25 134	1e
Thailand	11 912 281	11 980 493	11 592 740	12 347 720	12 858 470	1e
Trinidad and Tobago	4 070 403	4 039 477	4 046 848	3 917 069	3 560 000	1e
Tunisia	3 314 000	3 149 000	2 813 000	2 438 000	2 283 300	1e
Turkey	2 300 000	2 398 454	2 455 893	2 515 662	2 571 928	1e
Turkmenistan	11 198 570	11 384 500	11 588 800	12 723 740	12 702 150	1r
Ukraine	3 400 000	3 100 000	2 762 000	2 533 300	2 272 100	1e
United Arab Emirates	154 791 300	165 102 700	166 197 200	176 175 300	182 365 400	1r
United Kingdom	44 560 800	41 100 800	40 327 750	45 698 100	47 872 100	1e
United States	393 177 890	446 916 580	522 747 980	565 139 320	543 045 020	1r
Uzbekistan	3 165 000	3 146 000	2 961 000	2 872 000	2 662 000	1p
Venezuela	139 325 000	137 781 400	138 510 300	135 947 400	124 058 900	1r
Vietnam	16 739 000	16 705 000	17 392 000	18 746 000	17 230 000	3e
Yemen	8 357 500	9 387 600	7 582 000	1 520 000	595 000	1p
Total	4 051 208 895	4 059 806 482	4 139 768 320	4 288 855 444	4 301 808 745	

Abbreviations: see Explanation

OIL SANDS (PART OF PETROLEUM)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Canada	88 840 500	96 561 400	107 547 300	117 897 700	120 401 200	1e
Venezuela	30 738 000	29 880 000	30 100 000	29 980 000	29 000 000	2n
Total	119 578 500	126 441 400	137 647 300	147 877 700	149 401 200	

URANIUM (U₃O₈)

C o u n t r y	2012 metr. t	2013 metr. t	2014 metr. t	2015 metr. t	2016 metr. t	Rem
Australia	8 267	7 538	6 014	6 668	7 352	1e
Brazil	383	234	67	51	52	1d
Canada	11 226	11 003	11 533	15 659	16 666	1e
China	1 769	1 769	1 769	1 906	1 906	1d
Czech Republic	262	274	195	158	151	1a
France	4	0	4	2	0	1d
Germany	59	32	39	0	53	1e
India	454	472	454	454	454	2d
Kazakhstan	25 137	26 533	26 920	28 072	29 113	1a
Malawi	1 298	1 335	435	0	0	1e
Namibia	5 005	4 878	3 839	3 473	4 308	1e
Niger	5 685	4 994	4 901	4 852	4 101	1e
Pakistan	53	48	53	53	53	1d
Romania	106	94	91	91	59	2d
Russia	3 387	3 697	3 526	3 602	3 543	1n
South Africa	551	626	668	528	450	1e
Ukraine	1 132	1 087	1 092	1 156	1 185	1n
United States	1 880	2 113	2 219	1 516	1 323	1e
Uzbekistan	3 538	3 909	4 010	4 100	4 090	1e
Total	70 196	70 636	67 829	72 341	74 859	

6.5 SHARE OF WORLD MINERAL PRODUCTION 2016, BY COUNTRIES

6.5.1 IRON AND FERRO-ALLOY METALS

IRON (FE-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Australia	531 075 350	33.72	33.72	1 136.80
2	(2)	China	345 841 000	21.96	55.67	482.08
3	(3)	Brazil	271 275 900	17.22	72.90	296.61
4	(4)	India	124 852 650	7.93	80.82	62.83
5	(5)	Russia	55 550 000	3.53	84.35	12.44
6	(6)	South Africa	43 196 310	2.74	87.09	7.52
7	(7)	Ukraine	40 240 600	2.55	89.65	6.53
8	(8)	United States	26 334 000	1.67	91.32	2.80
9	(9)	Canada	25 941 900	1.65	92.96	2.71
10	(10)	Iran	21 623 000	1.37	94.34	1.88
11	(11)	Sweden	17 216 000	1.09	95.43	1.19
12	(12)	Kazakhstan	10 632 570	0.68	96.11	0.46
13	(13)	Chile	9 008 873	0.57	96.68	0.33
14	(16)	Mauritania	8 624 200	0.55	97.22	0.30
15	(14)	Mexico	7 253 810	0.46	97.69	0.21
16	(17)	Peru	5 210 920	0.33	98.02	0.11
17	(15)	Venezuela	5 070 000	0.32	98.34	0.10
18	(18)	Turkey	4 353 700	0.28	98.61	0.08
19	(25)	Sierra Leone	3 814 410	0.24	98.86	0.06
20	(19)	Mongolia	3 407 480	0.22	99.07	0.05
21	(22)	Indonesia	2 300 000	0.15	99.22	0.02
22	(23)	New Zealand	2 027 560	0.13	99.35	0.02
23	(24)	Vietnam	1 892 400	0.12	99.47	0.01
24	(21)	Norway	1 425 000	0.09	99.56	0.01
25	(27)	Malaysia	1 163 840	0.07	99.63	0.01
26	(26)	Bosnia-Herzegovina	893 420	0.06	99.69	0.00
27	(28)	Austria	888 723	0.06	99.75	0.00
28	(20)	Liberia	843 100	0.05	99.80	0.00
29	(29)	Egypt	765 000	0.05	99.85	0.00
30	(30)	Korea, North	600 000	0.04	99.89	0.00
31	(31)	Algeria	329 400	0.02	99.91	0.00
32	(32)	Colombia	322 060	0.02	99.93	0.00
33	(33)	Korea, South	266 810	0.02	99.94	0.00
34	(34)	Saudi Arabia	254 200	0.02	99.96	0.00
35	(38)	Pakistan	164 220	0.01	99.97	0.00
36	(36)	Tunisia	159 500	0.01	99.98	0.00
37	(35)	Argentina	107 280	0.01	99.99	0.00
38	(39)	Germany	74 500	0.00	99.99	0.00
39	(37)	Laos	69 040	0.00	100.00	0.00
40	(42)	Bhutan	17 960	0.00	100.00	0.00
41	(41)	Azerbaijan	10 710	0.00	100.00	0.00
42	(46)	Guatemala	8 210	0.00	100.00	0.00
43	(49)	Namibia	5 680	0.00	100.00	0.00
44	(47)	Morocco	5 510	0.00	100.00	0.00
45	(40)	Philippines	3 900	0.00	100.00	0.00

DATA

46	(48)	Uganda	1 280	0.00	100.00	0.00
47	(44)	Uruguay	1 040	0.00	100.00	0.00
48	(43)	Nigeria	700	0.00	100.00	0.00
Total			1 575 123 716	100,00		HHI 2 015

CHROMIUM (CR₂O₃ - CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	6 471 310	49.43	49.43	2 443.25
2	(2)	Kazakhstan	1 989 500	15.20	64.63	230.93
3	(4)	India	1 714 800	13.10	77.72	171.56
4	(3)	Turkey	1 070 030	8.17	85.90	66.80
5	(5)	Finland	469 140	3.58	89.48	12.84
6	(6)	Albania	316 200	2.42	91.90	5.83
7	(7)	Brazil	265 000	2.02	93.92	4.10
8	(9)	Oman	187 480	1.43	95.35	2.05
9	(8)	Russia	180 000	1.37	96.73	1.89
10	(10)	Iran	162 100	1.24	97.96	1.53
11	(12)	Zimbabwe	128 220	0.98	98.94	0.96
12	(13)	Papua New Guinea	45 000	0.34	99.29	0.12
13	(11)	Madagascar	39 200	0.30	99.59	0.09
14	(14)	Pakistan	27 730	0.21	99.80	0.04
15	(15)	China	12 200	0.09	99.89	0.01
16	(17)	Philippines	10 300	0.08	99.97	0.01
17	(18)	Afghanistan	2 000	0.02	99.99	0.00
18	(16)	Sudan	1 850	0.01	100.00	0.00
Total			13 092 060	100.00		HHI 2 942

COBALT

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Congo, D.R.	69 038	54.69	54.69	2 991.05
2	(2)	China	10 500	8.32	63.01	69.19
3	(3)	Canada	6 969	5.52	68.53	30.48
4	(5)	New Caledonia	5 720	4.53	73.06	20.53
5	(4)	Australia	5 183	4.11	77.17	16.86
6	(9)	Zambia	4 982	3.95	81.11	15.58
7	(6)	Philippines	4 000	3.17	84.28	10.04
8	(8)	Cuba	3 694	2.93	87.21	8.56
9	(7)	Madagascar	3 654	2.89	90.10	8.38
10	(12)	Finland	2 308	1.83	91.93	3.34
11	(11)	Papua New Guinea	2 187	1.73	93.66	3.00
12	(13)	Russia	2 100	1.66	95.33	2.77
13	(14)	Morocco	2 081	1.65	96.98	2.72
14	(15)	South Africa	1 101	0.87	97.85	0.76
15	(10)	Brazil	853	0.68	98.52	0.46
16	(16)	United States	690	0.55	99.07	0.30

Abbreviations: see Explanation

DATA

17	(17)	Zimbabwe	409	0.32	99.39	0.10
18	(18)	Indonesia	350	0.28	99.67	0.08
19	(19)	Botswana	281	0.22	99.89	0.05
20	(20)	Vietnam	134	0.11	100.00	0.01
Total			126 234	100.00		HHI 3 184

MANGANESE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	4 754 560	30.84	30.84	951.40
2	(2)	Australia	2 388 500	15.50	46.34	240.10
3	(3)	China	2 150 000	13.95	60.29	194.54
4	(4)	Gabon	1 658 500	10.76	71.05	115.76
5	(5)	Brazil	1 141 684	7.41	78.45	54.86
6	(6)	India	798 150	5.18	83.63	26.81
7	(8)	Ghana	706 390	4.58	88.21	21.00
8	(7)	Ukraine	491 500	3.19	91.40	10.17
9	(10)	Malaysia	327 200	2.12	93.53	4.51
10	(9)	Kazakhstan	323 300	2.10	95.62	4.40
11	(11)	Mexico	205 645	1.33	96.96	1.78
12	(18)	Myanmar	116 000	0.75	97.71	0.57
13	(12)	Cote d'Ivoire	93 150	0.60	98.31	0.37
14	(14)	Georgia	48 400	0.31	98.63	0.10
15	(16)	Morocco	34 170	0.22	98.85	0.05
16	(13)	Iran	33 110	0.21	99.06	0.05
17	(15)	Vietnam	29 000	0.19	99.25	0.04
18	(19)	Indonesia	27 600	0.18	99.43	0.03
19	(25)	Zambia	27 500	0.18	99.61	0.03
20	(17)	Turkey	16 400	0.11	99.72	0.01
21	(21)	Bulgaria	12 050	0.08	99.79	0.01
22	(24)	Namibia	5 050	0.03	99.83	0.00
23	(23)	Egypt	5 000	0.03	99.86	0.00
24	(20)	Hungary	4 840	0.03	99.89	0.00
25	(26)	Thailand	4 390	0.03	99.92	0.00
26	(22)	Sudan	3 920	0.03	99.94	0.00
27	(30)	Senegal	3 000	0.02	99.96	0.00
28	(28)	Oman	2 950	0.02	99.98	0.00
29	(27)	Romania	1 550	0.01	99.99	0.00
30	(29)	Bosnia-Herzegovina	1 000	0.01	100.00	0.00
Total			15 414 509	100.00		HHI 1 627

MOLYBDENUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	129 150	46.24	46.24	2 138.06
2	(2)	Chile	55 647	19.92	66.16	396.93
3	(3)	United States	35 800	12.82	78.98	164.28

DATA

4	(4)	Peru	25 757	9.22	88.20	85.04
5	(5)	Mexico	11 896	4.26	92.46	18.14
6	(6)	Armenia	5 771	2.07	94.53	4.27
7	(7)	Iran	3 340	1.20	95.72	1.43
8	(8)	Russia	3 200	1.15	96.87	1.31
9	(10)	Canada	2 835	1.02	97.88	1.03
10	(9)	Mongolia	2 432	0.87	98.75	0.76
11	(14)	Kazakhstan	1 941	0.69	99.45	0.48
12	(13)	Uzbekistan	620	0.22	99.67	0.05
13	(12)	Argentina	479	0.17	99.84	0.03
14	(15)	Korea, North	440	0.16	100.00	0.02
15	(17)	Norway	1	0.00	100.00	0.00
Total			279 309	100.00		HHI 2 812

NICKEL

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Philippines	341 673	17.49	17.49	305.91
2	(3)	Canada	235 707	12.07	29.56	145.59
3	(2)	Russia	222 000	11.36	40.92	129.15
4	(5)	New Caledonia	204 207	10.45	51.37	109.27
5	(4)	Australia	203 135	10.40	61.77	108.13
6	(6)	Indonesia	170 800	8.74	70.52	76.44
7	(7)	China	90 000	4.61	75.12	21.23
8	(8)	Brazil	85 600	4.38	79.50	19.20
9	(10)	Cuba	51 000	2.61	82.12	6.82
10	(9)	South Africa	48 994	2.51	84.62	6.29
11	(11)	Madagascar	42 024	2.15	86.77	4.63
12	(13)	Colombia	37 092	1.90	88.67	3.61
13	(12)	Guatemala	36 900	1.89	90.56	3.57
14	(15)	Myanmar	25 000	1.28	91.84	1.64
15	(14)	United States	24 100	1.23	93.08	1.52
16	(16)	Papua New Guinea	22 234	1.14	94.21	1.30
17	(17)	Greece	22 030	1.13	95.34	1.27
18	(20)	Finland	20 654	1.06	96.40	1.12
19	(19)	Zimbabwe	17 743	0.91	97.31	0.82
20	(18)	Botswana	16 878	0.86	98.17	0.75
21	(**)	Dominican Republic	12 410	0.64	98.81	0.40
22	(21)	Turkey	9 340	0.48	99.28	0.23
23	(23)	Albania	4 400	0.23	99.51	0.05
24	(25)	Kosovo	4 310	0.22	99.73	0.05
25	(22)	Vietnam	4 272	0.22	99.95	0.05
26	(27)	Poland	770	0.04	99.99	0.00
27	(28)	Norway	230	0.01	100.00	0.00
Total			1 953 503	100.00		HHI 949

Abbreviations: see Explanation

NIOBIUM (NB₂O₅-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Brazil	84 000	91.48	91.48	8 367.93
2	(2)	Canada	6 099	6.64	98.12	44.11
3	(3)	Congo, D.R.	797	0.87	98.99	0.75
4	(4)	Russia	628	0.68	99.67	0.47
5	(5)	Rwanda	190	0.21	99.88	0.04
6	(6)	China	40	0.04	99.92	0.00
7	(8)	Ethiopia	28	0.03	99.95	0.00
8	(7)	Nigeria	26	0.03	99.98	0.00
9	(9)	Burundi	8	0.01	99.99	0.00
10	(10)	Mozambique	7	0.01	100.00	0.00
11	(**)	Uganda	4	0.00	100.00	0.00
Total			91 827	100.00		HHI 8 413

TANTALUM (TA₂O₅-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Congo, D.R.	845	49.88	49.88	2 488.21
2	(2)	Rwanda	290	17.12	67.00	293.07
3	(4)	China	120	7.08	74.09	50.18
4	(3)	Brazil	103	6.08	80.17	36.97
5	(5)	Ethiopia	101	5.96	86.13	35.55
6	(6)	Nigeria	66	3.90	90.02	15.18
7	(9)	Australia	60	3.54	93.57	12.55
8	(7)	Russia	49	2.89	96.46	8.37
9	(8)	Mozambique	41	2.42	98.88	5.86
10	(10)	Burundi	11	0.65	99.53	0.42
11	(11)	Malaysia	8	0.47	100.00	0.22
Total			1 694	100.00		HHI 2 947

TITANIUM (TiO₂-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	1 200 000	17.45	17.45	304.44
2	(2)	China	1 196 000	17.39	34.84	302.41
3	(3)	Australia	1 070 000	15.56	50.40	242.05
4	(4)	Canada	700 000	10.18	60.57	103.59
5	(5)	Mozambique	504 200	7.33	67.90	53.75
6	(6)	Ukraine	339 800	4.94	72.85	24.41
7	(7)	Kenya	339 480	4.94	77.78	24.36
8	(8)	India	320 000	4.65	82.43	21.65

DATA

9	(9)	Norway	260 000	3.78	86.22	14.29
10	(10)	Senegal	238 120	3.46	89.68	11.99
11	(12)	Sierra Leone	156 570	2.28	91.95	5.18
12	(11)	Russia	150 000	2.18	94.13	4.76
13	(16)	Madagascar	127 000	1.85	95.98	3.41
14	(14)	Korea, South	91 800	1.33	97.32	1.78
15	(15)	United States	55 000	0.80	98.12	0.64
16	(13)	Vietnam	52 830	0.77	98.88	0.59
17	(17)	Brazil	48 000	0.70	99.58	0.49
18	(18)	Sri Lanka	11 730	0.17	99.75	0.03
19	(19)	Kazakhstan	9 900	0.14	99.90	0.02
20	(20)	Turkey	4 750	0.07	99.97	0.00
21	(21)	Malaysia	2 370	0.03	100.00	0.00
Total			6 877 550	100.00		HHI 1 120

TUNGSTEN (W-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016	Share in %	Share cum. %	Share HHI
		metr. t				
1	(1)	China	70 600	82.29	82.29	6 772.46
2	(2)	Vietnam	5 041	5.88	88.17	34.53
3	(3)	Russia	3 100	3.61	91.78	13.06
4	(5)	Bolivia	1 109	1.29	93.08	1.67
5	(6)	Rwanda	1 020	1.19	94.27	1.41
6	(8)	Austria	954	1.11	95.38	1.24
7	(7)	Mongolia	812	0.95	96.32	0.90
8	(14)	United Kingdom	732	0.85	97.18	0.73
9	(9)	Spain	688	0.80	97.98	0.64
10	(11)	Portugal	685	0.80	98.78	0.64
11	(10)	Brazil	400	0.47	99.24	0.22
12	(13)	Myanmar	170	0.20	99.44	0.04
13	(12)	Australia	108	0.13	99.57	0.02
14	(15)	Uzbekistan	80	0.09	99.66	0.01
15	(19)	Congo, D.R.	79	0.09	99.75	0.01
16	(22)	Burundi	77	0.09	99.84	0.01
17	(18)	Korea, North	50	0.06	99.90	0.00
18	(20)	Uganda	41	0.05	99.95	0.00
19	(21)	Thailand	29	0.03	99.98	0.00
20	(23)	Korea, South	14	0.02	100.00	0.00
Total			85 789	100.00		HHI 6 828

VANADIUM (V₂O₅-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016	Share in %	Share cum. %	Share HHI
		metr. t				
1	(1)	China	45 000	52.49	52.49	2 755.30
2	(3)	Russia	16 886	19.70	72.19	387.97

DATA

3	(2)	South Africa	15 877	18.52	90.71	342.99
4	(4)	Brazil	7 966	9.29	100.00	86.34
Total			85 729	100.00		HHI 3 573

6.5.2 NON-FERROUS METALS

ALUMINIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	31 873 000	54.20	54.20	2 937.84
2	(2)	Russia	3 561 000	6.06	60.26	36.67
3	(3)	Canada	3 208 888	5.46	65.71	29.78
4	(5)	India	2 896 629	4.93	70.64	24.26
5	(4)	United Arab Emirates	2 471 000	4.20	74.84	17.66
6	(6)	Australia	1 635 241	2.78	77.62	7.73
7	(8)	Norway	1 247 000	2.12	79.74	4.50
8	(9)	Bahrain	971 420	1.65	81.40	2.73
9	(11)	Saudi Arabia	869 000	1.48	82.87	2.18
10	(10)	Iceland	861 950	1.47	84.34	2.15
11	(7)	United States	818 430	1.39	85.73	1.94
12	(12)	Brazil	792 700	1.35	87.08	1.82
13	(13)	South Africa	701 000	1.19	88.27	1.42
14	(17)	Malaysia	620 000	1.05	89.33	1.11
15	(14)	Qatar	612 000	1.04	90.37	1.08
16	(15)	Mozambique	571 125	0.97	91.34	0.94
17	(16)	Germany	546 800	0.93	92.27	0.86
18	(18)	Argentina	424 871	0.72	92.99	0.52
19	(19)	France	424 640	0.72	93.71	0.52
20	(20)	Oman	386 395	0.66	94.37	0.43
21	(21)	Spain	360 000	0.61	94.98	0.37
22	(24)	New Zealand	338 556	0.58	95.56	0.33
23	(23)	Egypt	314 600	0.53	96.09	0.29
24	(22)	Iran	293 988	0.50	96.59	0.25
25	(25)	Romania	272 507	0.46	97.06	0.21
26	(26)	Indonesia	245 000	0.42	97.47	0.17
27	(27)	Kazakhstan	235 566	0.40	97.87	0.16
28	(28)	Greece	181 680	0.31	98.18	0.10
29	(29)	Slovakia	173 643	0.30	98.48	0.09
30	(31)	Venezuela	145 000	0.25	98.72	0.06
31	(30)	Tajikistan	129 300	0.22	98.94	0.05
32	(33)	Sweden	124 000	0.21	99.15	0.04
33	(32)	Bosnia-Herzegovina	106 649	0.18	99.34	0.03
34	(34)	Slovenia	84 365	0.14	99.48	0.02
35	(35)	Cameroon	65 300	0.11	99.59	0.01
36	(38)	Turkey	50 000	0.09	99.68	0.01
37	(37)	United Kingdom	46 000	0.08	99.75	0.01
38	(39)	Montenegro	38 915	0.07	99.82	0.00
39	(36)	Azerbaijan	36 800	0.06	99.88	0.00
40	(41)	Netherlands	36 300	0.06	99.94	0.00
41	(40)	Ghana	33 010	0.06	100.00	0.00
Total			58 804 268	100.00		HHI 3 078

Abbreviations: see Explanation

ANTIMONY

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	108 000	67.64	67.64	4 575.39
2	(2)	Tajikistan	26 970	16.89	84.53	285.33
3	(3)	Russia	6 620	4.15	88.68	17.19
4	(4)	Australia	4 285	2.68	91.36	7.20
5	(13)	Iran	2 767	1.73	93.10	3.00
6	(5)	Bolivia	2 669	1.67	94.77	2.79
7	(6)	Myanmar	2 000	1.25	96.02	1.57
8	(7)	Turkey	2 000	1.25	97.27	1.57
9	(8)	Kyrgyzstan	1 880	1.18	98.45	1.39
10	(15)	South Africa	1 200	0.75	99.20	0.56
11	(10)	Kazakhstan	573	0.36	99.56	0.13
12	(9)	Laos	242	0.15	99.71	0.02
13	(12)	Vietnam	200	0.13	99.84	0.02
14	(16)	Mexico	166	0.10	99.94	0.01
15	(**)	Thailand	32	0.02	99.96	0.00
16	(**)	Guatemala	25	0.02	99.98	0.00
17	(14)	Pakistan	21	0.01	99.99	0.00
18	(17)	Ecuador	15	0.01	100.00	0.00
Total			159 665	100.00		HHI 4 896

ARSENIC

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	25 000	70.10	70.10	4 913.55
2	(2)	Morocco	6 122	17.17	87.26	294.65
3	(3)	Namibia	1 960	5.50	92.76	30.20
4	(4)	Russia	1 500	4.21	96.96	17.69
5	(5)	Belgium	1 000	2.80	99.77	7.86
6	(7)	Japan	45	0.13	99.89	0.02
7	(8)	Bolivia	38	0.11	100.00	0.01
Total			35 665	100.00		HHI 5 264

BAUXITE (CRUDE ORE)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Australia	83 516 578	29.31	29.31	859.13
2	(2)	China	65 000 000	22.81	52.12	520.40
3	(3)	Brazil	39 244 200	13.77	65.90	189.70
4	(6)	Guinea	31 117 131	10.92	76.82	119.26
5	(4)	India	24 664 632	8.66	85.47	74.93
6	(7)	Jamaica	8 540 131	3.00	88.47	8.98

DATA

7	(5)	Malaysia	6 700 000	2.35	90.82	5.53
8	(8)	Russia	5 918 000	2.08	92.90	4.31
9	(9)	Kazakhstan	4 801 300	1.69	94.58	2.84
10	(10)	Saudi Arabia	3 168 000	1.11	95.70	1.24
11	(12)	Greece	1 847 700	0.65	96.34	0.42
12	(16)	Vietnam	1 600 000	0.56	96.91	0.32
13	(14)	Guyana	1 479 090	0.52	97.43	0.27
14	(15)	Sierra Leone	1 368 531	0.48	97.91	0.23
15	(18)	Ghana	1 143 676	0.40	98.31	0.16
16	(17)	Turkey	989 156	0.35	98.65	0.12
17	(21)	Iran	765 616	0.27	98.92	0.07
18	(20)	Bosnia-Herzegovina	738 609	0.26	99.18	0.07
19	(27)	Montenegro	667 259	0.23	99.42	0.05
20	(22)	Indonesia	494 722	0.17	99.59	0.03
21	(19)	Venezuela	340 000	0.12	99.71	0.01
22	(13)	Dominican Republic	281 960	0.10	99.81	0.01
23	(23)	Solomon Islands	234 500	0.08	99.89	0.01
24	(25)	United States	100 000	0.04	99.93	0.00
25	(26)	France	70 000	0.02	99.95	0.00
26	(24)	Fiji	58 050	0.02	99.97	0.00
27	(28)	Pakistan	57 024	0.02	99.99	0.00
28	(30)	Hungary	16 710	0.01	100.00	0.00
29	(29)	Croatia	9 780	0.00	100.00	0.00
30	(31)	Mozambique	1 451	0.00	100.00	0.00
Total			284 933 806	100.00		HHI 1 788

BISMUTH

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	7 100	68.20	68.20	4 651.74
2	(2)	Vietnam	2 013	19.34	87.54	373.93
3	(3)	Japan	682	6.55	94.09	42.92
4	(4)	Mexico	539	5.18	99.27	26.81
5	(6)	Bolivia	43	0.41	99.68	0.17
6	(5)	Russia	30	0.29	99.97	0.08
7	(8)	Canada	2	0.02	99.99	0.00
8	(7)	Armenia	1	0.01	100.00	0.00
Total			10 410	100.00		HHI 5 096

CADMIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	8 100	31.14	31.14	969.74
2	(2)	Korea, South	4 595	17.67	48.81	312.07
3	(4)	Kazakhstan	2 682	10.31	59.12	106.32
4	(7)	Canada	2 305	8.86	67.98	78.53
5	(3)	Japan	1 988	7.64	75.62	58.41

DATA

6	(5)	Mexico	1 244	4.78	80.40	22.87
7	(6)	Russia	1 100	4.23	84.63	17.88
8	(8)	Peru	820	3.15	87.79	9.94
9	(13)	Germany	652	2.51	90.29	6.28
10	(10)	Netherlands	620	2.38	92.68	5.68
11	(11)	United States	400	1.54	94.21	2.36
12	(15)	Norway	335	1.29	95.50	1.66
13	(9)	Uzbekistan	290	1.11	96.62	1.24
14	(14)	Bulgaria	245	0.94	97.56	0.89
15	(12)	Poland	200	0.77	98.33	0.59
16	(17)	Brazil	200	0.77	99.10	0.59
17	(16)	Korea, North	200	0.77	99.87	0.59
18	(**)	India	35	0.13	100.00	0.02
Total			26 011	100.00		HHI 1 596

COPPER

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Chile	5 552 600	27.20	27.20	739.61
2	(3)	Peru	2 353 859	11.53	38.72	132.91
3	(2)	China	1 851 000	9.07	47.79	82.19
4	(4)	United States	1 430 000	7.00	54.79	49.05
5	(5)	Congo, D.R.	1 035 631	5.07	59.87	25.73
6	(6)	Australia	948 135	4.64	64.51	21.57
7	(8)	Zambia	774 290	3.79	68.30	14.38
8	(10)	Mexico	766 129	3.75	72.06	14.08
9	(7)	Canada	707 605	3.47	75.52	12.01
10	(11)	Indonesia	700 224	3.43	78.95	11.76
11	(9)	Russia	686 000	3.36	82.31	11.29
12	(12)	Kazakhstan	471 500	2.31	84.62	5.33
13	(13)	Poland	424 276	2.08	86.70	4.32
14	(15)	Mongolia	374 260	1.83	88.53	3.36
15	(14)	Brazil	337 600	1.65	90.18	2.73
16	(16)	Iran	282 500	1.38	91.57	1.91
17	(18)	Spain	182 500	0.89	92.46	0.80
18	(17)	Laos	167 679	0.82	93.28	0.67
19	(19)	Bulgaria	111 870	0.55	93.83	0.30
20	(21)	Uzbekistan	100 000	0.49	94.32	0.24
21	(20)	Turkey	100 000	0.49	94.81	0.24
22	(30)	Armenia	95 080	0.47	95.28	0.22
23	(22)	Philippines	83 649	0.41	95.69	0.17
24	(27)	Argentina	81 890	0.40	96.09	0.16
25	(31)	Papua New Guinea	80 022	0.39	96.48	0.15
26	(25)	Sweden	79 247	0.39	96.87	0.15
27	(23)	Portugal	75 861	0.37	97.24	0.14
28	(26)	Myanmar	71 190	0.35	97.59	0.12
29	(24)	South Africa	65 257	0.32	97.91	0.10
30	(33)	Finland	47 488	0.23	98.14	0.05
31	(29)	Saudi Arabia	46 253	0.23	98.37	0.05
32	(35)	Serbia	34 625	0.17	98.54	0.03
33	(32)	Mauritania	32 818	0.16	98.70	0.03
34	(36)	Morocco	31 810	0.16	98.85	0.02
35	(34)	India	31 000	0.15	99.00	0.02

Abbreviations: see Explanation

DATA

36	(28)	Eritrea	25 300	0.12	99.13	0.02
37	(37)	Vietnam	24 460	0.12	99.25	0.01
38	(39)	Korea, North	20 000	0.10	99.35	0.01
39	(40)	Namibia	16 391	0.08	99.43	0.01
40	(41)	Pakistan	14 136	0.07	99.50	0.00
41	(38)	Botswana	13 120	0.06	99.56	0.00
42	(42)	Georgia	12 100	0.06	99.62	0.00
43	(48)	Dominican Republic	9 836	0.05	99.67	0.00
44	(46)	Zimbabwe	9 101	0.04	99.71	0.00
45	(44)	Macedonia	9 032	0.04	99.76	0.00
46	(43)	Bolivia	8 718	0.04	99.80	0.00
47	(50)	Colombia	8 493	0.04	99.84	0.00
48	(47)	Romania	8 390	0.04	99.88	0.00
49	(51)	Kyrgyzstan	8 200	0.04	99.92	0.00
50	(49)	Tanzania	7 166	0.04	99.96	0.00
51	(52)	Ecuador	3 000	0.01	99.97	0.00
52	(55)	Tajikistan	2 050	0.01	99.98	0.00
53	(56)	Azerbaijan	1 947	0.01	99.99	0.00
54	(54)	Cyprus	1 754	0.01	100.00	0.00
55	(**)	Korea, South	117	0.00	100.00	0.00
Total			20 417 159	100.00	HHI 1 136	

GALLIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	171	88.14	88.14	7 769.42
2	(2)	Ukraine	10	5.15	93.30	26.57
3	(4)	Japan	5	2.58	95.88	6.64
4	(3)	Germany	4	2.06	97.94	4.25
5	(5)	Russia	4	2.06	100.00	4.25
Total			194	100.00	HHI 7 811	

GERMANIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	110	90.16	90.16	8 129.54
2	(3)	Russia	6	4.92	95.08	24.19
3	(4)	United States	3	2.46	97.54	6.05
4	(5)	Japan	2	1.64	99.18	2.69
5	(6)	Ukraine	1	0.82	100.00	0.67
Total			122	100.00	HHI 8 163	

LEAD

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	2 227 500	47.36	47.36	2 242.98
2	(2)	Australia	453 374	9.64	57.00	92.92
3	(3)	United States	346 000	7.36	64.36	54.12
4	(4)	Peru	314 174	6.68	71.04	44.62
5	(5)	Mexico	241 271	5.13	76.17	26.31
6	(6)	Russia	193 000	4.10	80.27	16.84
7	(7)	India	147 110	3.13	83.40	9.78
8	(10)	Bolivia	89 510	1.90	85.30	3.62
9	(8)	Sweden	75 830	1.61	86.91	2.60
10	(13)	Kazakhstan	70 500	1.50	88.41	2.25
11	(9)	Turkey	64 300	1.37	89.78	1.87
12	(14)	Tajikistan	57 360	1.22	91.00	1.49
13	(11)	Poland	43 060	0.92	91.91	0.84
14	(12)	Iran	42 000	0.89	92.81	0.80
15	(16)	South Africa	39 344	0.84	93.64	0.70
16	(17)	Korea, North	36 800	0.78	94.43	0.61
17	(15)	Macedonia	31 030	0.66	95.09	0.44
18	(18)	Morocco	28 670	0.61	95.69	0.37
19	(20)	Argentina	28 000	0.60	96.29	0.35
20	(21)	Bulgaria	22 040	0.47	96.76	0.22
21	(23)	Myanmar	21 600	0.46	97.22	0.21
22	(19)	Ireland	19 600	0.42	97.63	0.17
23	(22)	Nigeria	14 500	0.31	97.94	0.10
24	(31)	Canada	12 658	0.27	98.21	0.07
25	(25)	Greece	11 283	0.24	98.45	0.06
26	(24)	Guatemala	10 000	0.21	98.66	0.05
27	(26)	Brazil	9 000	0.19	98.86	0.04
28	(30)	Kosovo	6 900	0.15	99.00	0.02
29	(29)	Bosnia-Herzegovina	6 820	0.15	99.15	0.02
30	(28)	Namibia	6 800	0.14	99.29	0.02
31	(40)	Spain	4 900	0.10	99.40	0.01
32	(42)	Mongolia	4 720	0.10	99.50	0.01
33	(32)	Portugal	4 246	0.09	99.59	0.01
34	(27)	Honduras	4 000	0.09	99.67	0.01
35	(35)	Korea, South	2 840	0.06	99.73	0.00
36	(36)	Serbia	2 450	0.05	99.78	0.00
37	(39)	Montenegro	2 100	0.04	99.83	0.00
38	(37)	Burkina Faso	2 000	0.04	99.87	0.00
39	(33)	Uzbekistan	2 000	0.04	99.91	0.00
40	(46)	Pakistan	1 196	0.03	99.94	0.00
41	(34)	Chile	1 110	0.02	99.96	0.00
42	(38)	Vietnam	800	0.02	99.98	0.00
43	(44)	Laos	510	0.01	99.99	0.00
44	(45)	Slovakia	200	0.00	100.00	0.00
45	(43)	Romania	120	0.00	100.00	0.00
46	(41)	Congo, D.R.	101	0.00	100.00	0.00
Total			4 703 327	100.00		HHI 2 505

LITHIUM (Li₂O-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(2)	Chile	31 240	39.77	39.77	1 581.76
2	(1)	Australia	22 460	28.59	68.36	817.59
3	(4)	Argentina	12 255	15.60	83.97	243.41
4	(3)	China	7 500	9.55	93.51	91.17
5	(5)	United States	2 100	2.67	96.19	7.15
6	(6)	Zimbabwe	2 030	2.58	98.77	6.68
7	(7)	Brazil	650	0.83	99.60	0.68
8	(8)	Portugal	314	0.40	100.00	0.16
Total			78 549	100.00		HHI 2 749

MERCURY

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	3 483	86.97	86.97	7 563.14
2	(2)	Mexico	267	6.67	93.63	44.44
3	(3)	Tajikistan	120	3.00	96.63	8.98
4	(4)	Russia	50	1.25	97.88	1.56
5	(5)	Argentina	25	0.62	98.50	0.39
6	(7)	Kyrgyzstan	20	0.50	99.00	0.25
7	(6)	Morocco	20	0.50	99.50	0.25
8	(8)	United States	15	0.37	99.88	0.14
9	(10)	Iran	3	0.07	99.95	0.01
10	(9)	Chile	2	0.05	100.00	0.00
Total			4 005	100.00		HHI 7 619

RARE EARTHS CONCENTRATES (REO-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	105 000	84.18	84.18	7 086.01
2	(2)	Australia	13 872	11.12	95.30	123.68
3	(4)	Russia	3 063	2.46	97.76	6.03
4	(5)	Brazil	2 200	1.76	99.52	3.11
5	(6)	Malaysia	600	0.48	100.00	0.23
Total			124 735	100.00		HHI 7 219

RHENIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 kg	Share in %	Share cum. %	Share HHI
1	(1)	Chile	22 542	48.97	48.97	2 398.30
2	(2)	United States	8 440	18.34	67.31	336.20
3	(3)	Poland	6 443	14.00	81.31	195.93
4	(4)	Kazakhstan	3 300	7.17	88.47	51.40
5	(5)	China	2 400	5.21	93.69	27.19
6	(6)	Russia	1 500	3.26	96.95	10.62
7	(7)	Uzbekistan	1 000	2.17	99.12	4.72
8	(8)	Armenia	405	0.88	100.00	0.77
Total			46 030	100.00		HHI 3 025

SELENIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(2)	China	772	22.98	22.98	527.91
2	(1)	Japan	752	22.38	45.36	500.91
3	(3)	Germany	700	20.83	66.19	434.03
4	(4)	Belgium	200	5.95	72.14	35.43
5	(5)	Russia	185	5.51	77.65	30.32
6	(6)	Canada	176	5.24	82.89	27.44
7	(8)	Mexico	121	3.60	86.49	12.97
8	(9)	Finland	118	3.51	90.00	12.33
9	(11)	Philippines	90	2.68	92.68	7.17
10	(10)	Poland	82	2.44	95.12	5.96
11	(7)	Sweden	60	1.79	96.90	3.19
12	(12)	Peru	45	1.34	98.24	1.79
13	(15)	Serbia	18	0.54	98.78	0.29
14	(14)	India	17	0.51	99.29	0.26
15	(16)	Kazakhstan	13	0.39	99.67	0.15
16	(13)	Uzbekistan	10	0.30	99.97	0.09
17	(17)	Armenia	1	0.03	100.00	0.00
Total			3 360	100.00		HHI 1 600

TELLURIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	50	27.78	27.78	771.60
2	(3)	Russia	40	22.22	50.00	493.83
3	(4)	Sweden	39	21.67	71.67	469.44

DATA

4	(2)	Japan	33	18.33	90.00	336.11
5	(5)	Canada	18	10.00	100.00	100.00
Total			180	100.00		HHI 2 171

TIN

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	97 000	28.52	28.52	813.23
2	(3)	Myanmar	95 000	27.93	56.45	780.04
3	(2)	Indonesia	62 877	18.49	74.93	341.71
4	(6)	Brazil	19 000	5.59	80.52	31.20
5	(5)	Peru	18 789	5.52	86.04	30.51
6	(4)	Bolivia	17 460	5.13	91.17	26.35
7	(7)	Australia	6 635	1.95	93.13	3.80
8	(8)	Congo, D.R.	6 503	1.91	95.04	3.66
9	(9)	Vietnam	4 579	1.35	96.38	1.81
10	(10)	Malaysia	4 123	1.21	97.60	1.47
11	(12)	Nigeria	3 443	1.01	98.61	1.02
12	(11)	Rwanda	2 560	0.75	99.36	0.57
13	(14)	Laos	1 005	0.30	99.66	0.09
14	(13)	Russia	627	0.18	99.84	0.03
15	(21)	United Kingdom	144	0.04	99.88	0.00
16	(15)	Tanzania	138	0.04	99.92	0.00
17	(16)	Uganda	62	0.02	99.94	0.00
18	(18)	Thailand	58	0.02	99.96	0.00
19	(19)	Portugal	55	0.02	99.97	0.00
20	(17)	Burundi	46	0.01	99.99	0.00
21	(20)	Mongolia	25	0.01	100.00	0.00
22	(22)	India	9	0.00	100.00	0.00
23	(**)	Spain	7	0.00	100.00	0.00
Total			340 145	100.00		HHI 2 036

ZINC

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	4 635 000	37.01	37.01	1 369.51
2	(3)	Peru	1 336 835	10.67	47.68	113.93
3	(2)	Australia	883 747	7.06	54.74	49.79
4	(4)	United States	805 000	6.43	61.16	41.31
5	(6)	India	745 980	5.96	67.12	35.47
6	(5)	Mexico	661 188	5.28	72.40	27.87
7	(7)	Bolivia	486 955	3.89	76.29	15.12
8	(8)	Kazakhstan	324 800	2.59	78.88	6.73
9	(9)	Canada	321 757	2.57	81.45	6.60
10	(12)	Russia	282 000	2.25	83.70	5.07
11	(10)	Sweden	258 264	2.06	85.76	4.25
12	(13)	Turkey	201 500	1.61	87.37	2.59

DATA

13	(14)	Iran	176 400	1.41	88.78	1.98
14	(15)	Brazil	157 000	1.25	90.03	1.57
15	(11)	Ireland	147 800	1.18	91.21	1.39
16	(16)	Namibia	132 730	1.06	92.27	1.12
17	(17)	Burkina Faso	77 840	0.62	92.89	0.39
18	(22)	Spain	76 342	0.61	93.50	0.37
19	(21)	Tajikistan	73 850	0.59	94.09	0.35
20	(18)	Portugal	69 527	0.56	94.65	0.31
21	(28)	Korea, North	64 000	0.51	95.16	0.26
22	(19)	Poland	61 000	0.49	95.65	0.24
23	(24)	Mongolia	50 100	0.40	96.05	0.16
24	(31)	Finland	45 852	0.37	96.41	0.13
25	(20)	Morocco	43 020	0.34	96.76	0.12
26	(23)	Chile	42 870	0.34	97.10	0.12
27	(**)	Eritrea	40 900	0.33	97.43	0.11
28	(25)	Saudi Arabia	39 008	0.31	97.74	0.10
29	(26)	Thailand	35 130	0.28	98.02	0.08
30	(30)	South Africa	26 695	0.21	98.23	0.05
31	(27)	Argentina	26 300	0.21	98.44	0.04
32	(29)	Macedonia	24 870	0.20	98.64	0.04
33	(37)	Greece	18 866	0.15	98.79	0.02
34	(33)	Bulgaria	18 790	0.15	98.94	0.02
35	(35)	Guatemala	15 000	0.12	99.06	0.01
36	(32)	Honduras	14 500	0.12	99.18	0.01
37	(36)	Nigeria	13 400	0.11	99.28	0.01
38	(38)	Congo, D.R.	12 587	0.10	99.38	0.01
39	(34)	Vietnam	12 000	0.10	99.48	0.01
40	(40)	Uzbekistan	10 000	0.08	99.56	0.01
41	(39)	Bosnia-Herzegovina	9 830	0.08	99.64	0.01
42	(42)	Montenegro	8 100	0.06	99.70	0.00
43	(**)	Pakistan	7 700	0.06	99.76	0.00
44	(43)	Myanmar	6 500	0.05	99.82	0.00
45	(41)	Armenia	4 960	0.04	99.85	0.00
46	(46)	Kosovo	4 800	0.04	99.89	0.00
47	(44)	Serbia	4 700	0.04	99.93	0.00
48	(45)	Dominican Republic	3 685	0.03	99.96	0.00
49	(48)	Korea, South	2 260	0.02	99.98	0.00
50	(47)	Romania	1 500	0.01	99.99	0.00
51	(**)	Laos	750	0.01	100.00	0.00
52	(50)	Algeria	310	0.00	100.00	0.00
53	(49)	Slovakia	200	0.00	100.00	0.00
Total			12 524 698	100.00	HHI 1 687	

6.5.3 PRECIOUS METALS

GOLD

Rank 2016	Rank 2015	C o u n t r y	Production 2016 kg	Share in %	Share cum. %	Share HHI
1	(1)	China	453 500	14.11	14.11	199.09
2	(2)	Australia	282 421	8.79	22.90	77.21
3	(3)	Russia	262 380	8.16	31.06	66.64
4	(4)	United States	222 211	6.91	37.97	47.80

Abbreviations: see Explanation

DATA

5	(5)	Canada	165 034	5.13	43.11	26.37
6	(6)	Peru	153 006	4.76	47.87	22.66
7	(7)	South Africa	142 162	4.42	52.29	19.56
8	(8)	Mexico	132 413	4.12	56.41	16.97
9	(10)	Ghana	128 502	4.00	60.41	15.98
10	(9)	Uzbekistan	100 000	3.11	63.52	9.68
11	(13)	Sudan	93 400	2.91	66.43	8.44
12	(11)	Indonesia	91 090	2.83	69.26	8.03
13	(12)	Brazil	83 000	2.58	71.84	6.67
14	(14)	Kazakhstan	74 737	2.33	74.17	5.41
15	(16)	Colombia	61 805	1.92	76.09	3.70
16	(17)	Papua New Guinea	61 733	1.92	78.01	3.69
17	(15)	Argentina	56 967	1.77	79.79	3.14
18	(18)	Mali	46 938	1.46	81.25	2.13
19	(20)	Chile	46 333	1.44	82.69	2.08
20	(19)	Tanzania	45 778	1.42	84.11	2.03
21	(21)	Burkina Faso	38 530	1.20	85.31	1.44
22	(23)	Dominican Republic	38 131	1.19	86.50	1.41
23	(22)	Congo, D.R.	30 664	0.95	87.45	0.91
24	(25)	Guinea	30 274	0.94	88.39	0.89
25	(24)	Turkey	24 030	0.75	89.14	0.56
26	(29)	Zimbabwe	22 747	0.71	89.85	0.50
27	(27)	Philippines	22 674	0.71	90.55	0.50
28	(32)	Guyana	22 168	0.69	91.24	0.48
29	(28)	Cote d'Ivoire	20 596	0.64	91.88	0.41
30	(30)	Kyrgyzstan	19 497	0.61	92.49	0.37
31	(26)	Mongolia	18 436	0.57	93.06	0.33
32	(33)	Egypt	17 139	0.53	93.60	0.28
33	(31)	Togo	14 000	0.44	94.03	0.19
34	(36)	Suriname	12 926	0.40	94.44	0.16
35	(34)	Bolivia	12 811	0.40	94.83	0.16
36	(35)	New Zealand	9 866	0.31	95.14	0.09
37	(39)	Finland	8 865	0.28	95.42	0.08
38	(43)	Nicaragua	8 314	0.26	95.68	0.07
39	(40)	Bulgaria	7 920	0.25	95.92	0.06
40	(38)	Mauritania	7 127	0.22	96.14	0.05
41	(46)	Namibia	7 062	0.22	96.36	0.05
42	(50)	Saudi Arabia	7 010	0.22	96.58	0.05
43	(44)	Nigeria	7 000	0.22	96.80	0.05
44	(37)	Ethiopia	6 800	0.21	97.01	0.04
45	(45)	Laos	6 764	0.21	97.22	0.04
46	(41)	Ecuador	6 761	0.21	97.43	0.04
47	(48)	Senegal	6 741	0.21	97.64	0.04
48	(47)	Sweden	6 463	0.20	97.84	0.04
49	(42)	Japan	6 455	0.20	98.04	0.04
50	(53)	Tajikistan	5 040	0.16	98.20	0.02
51	(71)	Liberia	4 704	0.15	98.35	0.02
52	(52)	Zambia	4 610	0.14	98.49	0.02
53	(58)	Iran	4 537	0.14	98.63	0.02
54	(54)	Thailand	4 293	0.13	98.76	0.02
55	(49)	Guatemala	3 907	0.12	98.89	0.01
56	(55)	Georgia	3 621	0.11	99.00	0.01
57	(56)	Armenia	3 000	0.09	99.09	0.01
58	(57)	Honduras	2 607	0.08	99.17	0.01
59	(51)	Malaysia	2 149	0.07	99.24	0.00
60	(59)	Azerbaijan	2 034	0.06	99.30	0.00
61	(72)	Rwanda	1 980	0.06	99.37	0.00
62	(63)	French Guiana	1 600	0.05	99.42	0.00

Abbreviations: see Explanation

DATA

63	(65)	India	1 594	0.05	99.46	0.00
64	(66)	Fiji	1 500	0.05	99.51	0.00
65	(60)	Spain	1 291	0.04	99.55	0.00
66	(67)	Myanmar	1 250	0.04	99.59	0.00
67	(62)	Gabon	1 020	0.03	99.62	0.00
68	(70)	Costa Rica	1 000	0.03	99.65	0.00
69	(73)	Cameroon	1 000	0.03	99.68	0.00
70	(68)	Niger	999	0.03	99.72	0.00
71	(64)	Uruguay	999	0.03	99.75	0.00
72	(61)	Greece	940	0.03	99.78	0.00
73	(74)	Botswana	833	0.03	99.80	0.00
74	(69)	Serbia	805	0.03	99.83	0.00
75	(77)	Venezuela	800	0.02	99.85	0.00
76	(80)	Macedonia	664	0.02	99.87	0.00
77	(86)	Madagascar	586	0.02	99.89	0.00
78	(79)	Romania	500	0.02	99.91	0.00
79	(76)	Slovakia	466	0.01	99.92	0.00
80	(82)	Poland	402	0.01	99.93	0.00
81	(78)	Burundi	396	0.01	99.95	0.00
82	(81)	Morocco	352	0.01	99.96	0.00
83	(75)	Eritrea	333	0.01	99.97	0.00
84	(84)	Korea, South	205	0.01	99.97	0.00
85	(85)	Mozambique	201	0.01	99.98	0.00
86	(83)	Kenya	200	0.01	99.99	0.00
87	(89)	Sierra Leone	188	0.01	99.99	0.00
88	(88)	Algeria	102	0.00	99.99	0.00
89	(87)	Congo, Rep.	100	0.00	100.00	0.00
90	(91)	Central African Republic	33	0.00	100.00	0.00
91	(90)	Benin	30	0.00	100.00	0.00
92	(92)	Uganda	11	0.00	100.00	0.00
Total			3 214 063	100.00	HHI	557

PALLADIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 kg	Share in %	Share cum. %	Share HHI
1	(2)	Russia	86 250	40.96	40.96	1 677.60
2	(1)	South Africa	76 273	36.22	77.18	1 311.93
3	(3)	Canada	21 200	10.07	87.25	101.35
4	(4)	United States	13 070	6.21	93.45	38.52
5	(5)	Zimbabwe	12 222	5.80	99.26	33.69
6	(6)	Finland	901	0.43	99.69	0.18
7	(7)	Australia	610	0.29	99.97	0.08
8	(10)	Poland	30	0.01	99.99	0.00
9	(9)	Serbia	23	0.01	100.00	0.00
Total			210 579	100.00	HHI	3 163

Abbreviations: see Explanation

PLATINUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 kg	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	133 241	71.75	71.75	5 148.05
2	(2)	Russia	21 860	11.77	83.52	138.57
3	(3)	Zimbabwe	15 110	8.14	91.66	66.21
4	(4)	Canada	9 300	5.01	96.67	25.08
5	(5)	United States	3 891	2.10	98.76	4.39
6	(6)	Finland	1 178	0.63	99.40	0.40
7	(7)	Colombia	917	0.49	99.89	0.24
8	(8)	Australia	152	0.08	99.97	0.01
9	(9)	Poland	50	0.03	100.00	0.00
10	(11)	Serbia	3	0.00	100.00	0.00
11	(10)	Botswana	0	0.00	100.00	0.00
Total			185 702	100.00		HHI 5 383

RHODIUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 kg	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	19 237	80.81	80.81	6 529.83
2	(2)	Russia	2 644	11.11	91.91	123.35
3	(3)	Zimbabwe	1 322	5.55	97.47	30.84
4	(4)	Canada	500	2.10	99.57	4.41
5	(5)	United States	103	0.43	100.00	0.19
Total			23 806	100.00		HHI 6 689

SILVER

Rank 2016	Rank 2015	C o u n t r y	Production 2016 kg	Share in %	Share cum. %	Share HHI
1	(1)	Mexico	5 408 521	19.83	19.83	393.39
2	(2)	Peru	4 374 356	16.04	35.88	257.33
3	(3)	China	3 496 033	12.82	48.70	164.37
4	(5)	Chile	1 501 436	5.51	54.20	30.32
5	(4)	Russia	1 449 423	5.32	59.52	28.25
6	(6)	Australia	1 418 219	5.20	64.72	27.05
7	(8)	Bolivia	1 353 202	4.96	69.68	24.63
8	(9)	Poland	1 264 659	4.64	74.32	21.51
9	(7)	Kazakhstan	1 182 476	4.34	78.66	18.80
10	(10)	United States	1 147 000	4.21	82.86	17.69
11	(11)	Argentina	931 707	3.42	86.28	11.67
12	(12)	Guatemala	837 793	3.07	89.35	9.44
13	(13)	Sweden	498 686	1.83	91.18	3.34
14	(14)	India	460 811	1.69	92.87	2.86

DATA

15	(15)	Canada	404 666	1.48	94.35	2.20
16	(16)	Morocco	268 523	0.98	95.34	0.97
17	(17)	Turkey	174 180	0.64	95.98	0.41
18	(19)	Dominican Republic	121 585	0.45	96.42	0.20
19	(18)	Indonesia	112 774	0.41	96.84	0.17
20	(21)	Papua New Guinea	92 632	0.34	97.18	0.12
21	(20)	Mongolia	84 920	0.31	97.49	0.10
22	(22)	Uzbekistan	60 000	0.22	97.71	0.05
23	(23)	South Africa	55 622	0.20	97.91	0.04
24	(24)	Laos	50 904	0.19	98.10	0.03
25	(25)	Korea, North	50 000	0.18	98.28	0.03
26	(26)	Iran	50 000	0.18	98.46	0.03
27	(27)	Portugal	38 631	0.14	98.61	0.02
28	(34)	Thailand	35 954	0.13	98.74	0.02
29	(30)	Philippines	34 216	0.13	98.86	0.02
30	(31)	Greece	29 342	0.11	98.97	0.01
31	(32)	Spain	26 500	0.10	99.07	0.01
32	(33)	Brazil	25 000	0.09	99.16	0.01
33	(36)	Nicaragua	21 203	0.08	99.24	0.01
34	(37)	Romania	18 000	0.07	99.30	0.00
35	(39)	Tanzania	17 901	0.07	99.37	0.00
36	(29)	Honduras	17 803	0.07	99.44	0.00
37	(41)	Finland	16 348	0.06	99.50	0.00
38	(40)	Bulgaria	15 000	0.06	99.55	0.00
39	(35)	Armenia	14 100	0.05	99.60	0.00
40	(38)	Macedonia	13 970	0.05	99.65	0.00
41	(44)	Kyrgyzstan	13 490	0.05	99.70	0.00
42	(28)	Eritrea	13 219	0.05	99.75	0.00
43	(45)	Serbia	11 345	0.04	99.79	0.00
44	(43)	Colombia	10 427	0.04	99.83	0.00
45	(42)	New Zealand	7 960	0.03	99.86	0.00
46	(48)	Korea, South	6 579	0.02	99.88	0.00
47	(59)	Azerbaijan	5 136	0.02	99.90	0.00
48	(47)	Japan	5 076	0.02	99.92	0.00
49	(46)	Saudi Arabia	4 500	0.02	99.94	0.00
50	(52)	Tajikistan	3 200	0.01	99.95	0.00
51	(49)	Ghana	3 100	0.01	99.96	0.00
52	(53)	Mali	2 600	0.01	99.97	0.00
53	(50)	Ireland	1 076	0.00	99.97	0.00
54	(58)	Malaysia	1 075	0.00	99.98	0.00
55	(56)	Sudan	1 000	0.00	99.98	0.00
56	(54)	Ecuador	934	0.00	99.99	0.00
57	(57)	Ethiopia	880	0.00	99.99	0.00
58	(55)	Congo, D.R.	835	0.00	99.99	0.00
59	(62)	Senegal	640	0.00	99.99	0.00
60	(61)	Cote d'Ivoire	549	0.00	100.00	0.00
61	(63)	Slovakia	391	0.00	100.00	0.00
62	(64)	Fiji	354	0.00	100.00	0.00
63	(60)	Namibia	147	0.00	100.00	0.00
64	(65)	Niger	100	0.00	100.00	0.00
65	(66)	Algeria	20	0.00	100.00	0.00
Total			27 268 729	100.00	HHI 1 015	

Abbreviations: see Explanation

6.5.4 INDUSTRIAL MINERALS

ASBESTOS

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Russia	713 675	55.45	55.45	3 074.63
2	(3)	China	203 000	15.77	71.22	248.76
3	(4)	Kazakhstan	192 600	14.96	86.19	223.93
4	(2)	Brazil	177 800	13.81	100.00	190.83
		Total	1 287 075	100.00		HHI 3 738

BARYTE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	3 100 000	33.95	33.95	1 152.73
2	(3)	Iran	1 449 038	15.87	49.82	251.86
3	(4)	India	1 300 000	14.24	64.06	202.72
4	(2)	Morocco	668 500	7.32	71.38	53.61
5	(5)	Kazakhstan	612 300	6.71	78.09	44.97
6	(9)	Russia	434 000	4.75	82.84	22.59
7	(6)	Turkey	321 239	3.52	86.36	12.38
8	(7)	United States	240 000	2.63	88.99	6.91
9	(10)	Thailand	223 101	2.44	91.43	5.97
10	(12)	Pakistan	157 858	1.73	93.16	2.99
11	(8)	Mexico	150 970	1.65	94.81	2.73
12	(11)	Vietnam	100 000	1.10	95.91	1.20
13	(19)	Algeria	52 000	0.57	96.48	0.32
14	(15)	United Kingdom	50 000	0.55	97.03	0.30
15	(14)	Bulgaria	50 000	0.55	97.57	0.30
16	(13)	Germany	49 373	0.54	98.11	0.29
17	(18)	Laos	33 240	0.36	98.48	0.13
18	(20)	Canada	30 000	0.33	98.81	0.11
19	(22)	Slovakia	23 000	0.25	99.06	0.06
20	(16)	Bolivia	16 632	0.18	99.24	0.03
21	(24)	Argentina	12 389	0.14	99.38	0.02
22	(29)	Brazil	12 133	0.13	99.51	0.02
23	(25)	Tunisia	10 000	0.11	99.62	0.01
24	(23)	Korea, North	9 000	0.10	99.72	0.01
25	(21)	Peru	7 953	0.09	99.80	0.01
26	(26)	Australia	7 139	0.08	99.88	0.01
27	(27)	Egypt	4 000	0.04	99.93	0.00
28	(30)	Myanmar	3 215	0.04	99.96	0.00
29	(28)	Nigeria	3 000	0.03	99.99	0.00
30	(31)	Guatemala	500	0.01	100.00	0.00
		Total	9 130 580	100.00		HHI 1 762

BENTONITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	3 600 000	22.44	22.44	503.39
1	(2)	China	3 600 000	22.44	44.87	503.39
3	(3)	Turkey	1 744 912	10.87	55.75	118.26
4	(4)	India	1 600 000	9.97	65.72	99.43
5	(5)	Greece	883 220	5.50	71.22	30.30
6	(6)	Russia	680 000	4.24	75.46	17.96
7	(7)	Japan	500 000	3.12	78.58	9.71
8	(9)	Brazil	405 000	2.52	81.10	6.37
9	(10)	Germany	393 000	2.45	83.55	6.00
10	(11)	Czech Republic	374 000	2.33	85.88	5.43
11	(8)	Iran	356 036	2.22	88.10	4.92
12	(14)	Ukraine	220 000	1.37	89.47	1.88
13	(15)	Argentina	170 000	1.06	90.53	1.12
14	(13)	Slovakia	155 000	0.97	91.50	0.93
15	(16)	South Africa	148 742	0.93	92.42	0.86
16	(**)	Kazakhstan	119 100	0.74	93.17	0.55
17	(17)	Cyprus	117 184	0.73	93.90	0.53
18	(12)	Mexico	109 176	0.68	94.58	0.46
19	(19)	Morocco	103 230	0.64	95.22	0.41
20	(22)	Bosnia-Herzegovina	102 858	0.64	95.86	0.41
21	(18)	Spain	87 570	0.55	96.41	0.30
22	(25)	Denmark	66 278	0.41	96.82	0.17
23	(20)	Korea, South	63 834	0.40	97.22	0.16
24	(21)	Australia	59 000	0.37	97.59	0.14
25	(24)	Azerbaijan	54 500	0.34	97.93	0.12
26	(32)	Italy	45 978	0.29	98.21	0.08
27	(26)	France	42 567	0.27	98.48	0.07
28	(28)	Pakistan	42 038	0.26	98.74	0.07
29	(23)	Bulgaria	37 100	0.23	98.97	0.05
30	(27)	Algeria	37 000	0.23	99.20	0.05
31	(30)	Romania	20 000	0.12	99.33	0.02
32	(29)	Peru	19 246	0.12	99.45	0.01
33	(43)	Guatemala	18 081	0.11	99.56	0.01
34	(31)	Hungary	14 000	0.09	99.65	0.01
35	(34)	Armenia	13 956	0.09	99.73	0.01
36	(33)	Turkmenistan	10 000	0.06	99.80	0.00
37	(36)	Indonesia	7 000	0.04	99.84	0.00
38	(38)	Uruguay	6 650	0.04	99.88	0.00
39	(37)	Iraq	6 000	0.04	99.92	0.00
40	(39)	Egypt	3 600	0.02	99.94	0.00
41	(40)	Philippines	3 230	0.02	99.96	0.00
42	(36)	Macedonia	1 968	0.01	99.97	0.00
43	(41)	Chile	1 288	0.01	99.98	0.00
44	(46)	Poland	1 000	0.01	99.99	0.00
45	(44)	New Zealand	700	0.00	99.99	0.00
46	(42)	Bolivia	525	0.00	99.99	0.00
47	(45)	Cuba	389	0.00	100.00	0.00
48	(47)	Mozambique	322	0.00	100.00	0.00
49	(48)	Slovenia	182	0.00	100.00	0.00
Total			16 045 460	100.00		HHI 1 314

Abbreviations: see Explanation

BORON

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Turkey	1 831 000	42.48	42.48	1 804.46
2	(2)	United States	1 134 000	26.31	68.79	692.15
3	(4)	Chile	558 854	12.97	81.75	168.10
4	(5)	Argentina	300 000	6.96	88.71	48.44
5	(7)	Bolivia	182 685	4.24	92.95	17.96
6	(6)	China	160 000	3.71	96.66	13.78
7	(8)	Russia	80 000	1.86	98.52	3.44
8	(3)	Peru	33 792	0.78	99.30	0.61
9	(9)	Kazakhstan	30 000	0.70	100.00	0.48
10	(10)	Iran	36	0.00	100.00	0.00
Total			4 310 367	100.00		HHI 2 749

DIAMONDS (GEM)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 ct	Share in %	Share cum. %	Share HHI
1	(1)	Russia	24 430 920	32.27	32.27	1 041.67
2	(2)	Botswana	14 623 700	19.32	51.59	373.22
3	(3)	Canada	11 996 074	15.85	67.44	251.15
4	(4)	Angola	8 119 320	10.73	78.17	115.05
5	(5)	Australia	6 839 420	9.04	87.20	81.64
6	(6)	South Africa	3 321 830	4.39	91.59	19.26
7	(7)	Congo, D.R.	3 111 890	4.11	95.70	16.90
8	(8)	Namibia	1 494 350	1.97	97.68	3.90
9	(9)	Zimbabwe	639 920	0.85	98.52	0.71
10	(10)	Sierra Leone	417 952	0.55	99.07	0.30
11	(11)	Tanzania	203 915	0.27	99.34	0.07
12	(12)	Ghana	113 224	0.15	99.49	0.02
13	(14)	Guyana	104 920	0.14	99.63	0.02
14	(13)	Guinea	84 597	0.11	99.74	0.01
15	(15)	Lesotho	68 403	0.09	99.83	0.01
16	(19)	Brazil	60 560	0.08	99.91	0.01
17	(16)	Liberia	36 220	0.05	99.96	0.00
18	(18)	Cote d'Ivoire	16 188	0.02	99.98	0.00
19	(17)	Central African Republic	9 973	0.01	100.00	0.00
20	(20)	India	2 920	0.00	100.00	0.00
21	(**)	China	127	0.00	100.00	0.00
Total			75 696 423	100.00		HHI 1 904

DIAMONDS (IND)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 ct	Share in %	Share cum. %	Share HHI
1	(1)	Russia	16 287 280	32.37	32.37	1 048.05
2	(2)	Congo, D.R.	12 447 557	24.74	57.12	612.14
3	(3)	Australia	7 118 580	14.15	71.26	200.20
4	(4)	Botswana	6 267 300	12.46	83.72	155.18
5	(5)	South Africa	4 982 750	9.90	93.63	98.09
6	(6)	Zimbabwe	1 493 140	2.97	96.59	8.81
7	(7)	Angola	902 147	1.79	98.39	3.22
8	(8)	Lesotho	273 611	0.54	98.93	0.30
9	(10)	Sierra Leone	131 550	0.26	99.19	0.07
10	(18)	Brazil	122 955	0.24	99.44	0.06
11	(9)	Namibia	78 650	0.16	99.59	0.02
12	(15)	Tanzania	35 985	0.07	99.66	0.01
13	(16)	Guyana	34 970	0.07	99.73	0.00
14	(14)	India	33 596	0.07	99.80	0.00
15	(13)	Ghana	28 306	0.06	99.86	0.00
16	(11)	Guinea	28 200	0.06	99.91	0.00
17	(17)	Liberia	24 150	0.05	99.96	0.00
18	(12)	Congo, Rep.	12 110	0.02	99.99	0.00
19	(20)	Cote d'Ivoire	4 047	0.01	99.99	0.00
20	(19)	Central African Republic	2 493	0.00	100.00	0.00
21	(21)	Cameroon	994	0.00	100.00	0.00
Total			50 310 371	100.00		HHI 2 126

DIATOMITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	686 000	35.40	35.40	1 253.03
2	(2)	China	400 000	20.64	56.04	426.02
3	(3)	Argentina	200 000	10.32	66.36	106.51
4	(4)	Denmark	114 400	5.90	72.26	34.85
5	(5)	Peru	107 265	5.53	77.80	30.64
6	(7)	Mexico	96 686	4.99	82.79	24.89
7	(6)	France	90 000	4.64	87.43	21.57
8	(8)	Turkey	61 722	3.18	90.61	10.14
9	(9)	Spain	48 231	2.49	93.10	6.19
10	(10)	Chile	26 937	1.39	94.49	1.93
11	(14)	Czech Republic	26 000	1.34	95.84	1.80
12	(12)	Armenia	25 486	1.32	97.15	1.73
13	(13)	Korea, South	20 564	1.06	98.21	1.13
14	(11)	Costa Rica	20 500	1.06	99.27	1.12
15	(16)	Brazil	5 000	0.26	99.53	0.07
16	(18)	Ethiopia	4 000	0.21	99.73	0.04
17	(19)	Algeria	2 500	0.13	99.86	0.02
18	(20)	Kenya	1 092	0.06	99.92	0.00

DATA

19	(17)	Australia	1 033	0.05	99.97	0.00
20	(21)	Poland	500	0.03	100.00	0.00
21	(15)	Iran	37	0.00	100.00	0.00
Total			1 937 953	100.00	HHI 1 922	

FELDSPAR

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Turkey	9 475 819	31.73	31.73	1 006.79
2	(2)	Germany	4 650 000	15.57	47.30	242.44
3	(3)	China	2 400 000	8.04	55.34	64.58
4	(4)	Italy	2 200 000	7.37	62.70	54.27
5	(5)	India	1 400 000	4.69	67.39	21.98
6	(7)	Indonesia	1 200 000	4.02	71.41	16.15
7	(6)	Thailand	1 167 147	3.91	75.32	15.27
8	(8)	Iran	1 120 449	3.75	79.07	14.08
9	(9)	Korea, South	654 398	2.19	81.26	4.80
10	(10)	Spain	650 000	2.18	83.44	4.74
11	(11)	France	550 000	1.84	85.28	3.39
12	(12)	United States	470 000	1.57	86.85	2.48
13	(14)	Czech Republic	454 000	1.52	88.37	2.31
14	(15)	Brazil	400 000	1.34	89.71	1.79
15	(13)	Malaysia	326 648	1.09	90.81	1.20
16	(31)	Pakistan	316 289	1.06	91.87	1.12
17	(16)	Egypt	300 000	1.00	92.87	1.01
18	(18)	Argentina	220 000	0.74	93.61	0.54
19	(19)	Russia	205 000	0.69	94.29	0.47
20	(20)	Saudi Arabia	188 000	0.63	94.92	0.40
21	(22)	Algeria	168 000	0.56	95.49	0.32
22	(17)	Ecuador	148 506	0.50	95.98	0.25
23	(23)	South Africa	127 872	0.43	96.41	0.18
24	(21)	Mexico	127 213	0.43	96.84	0.18
25	(26)	Portugal	118 878	0.40	97.23	0.16
26	(24)	Japan	105 000	0.35	97.59	0.12
27	(25)	Sri Lanka	96 000	0.32	97.91	0.10
28	(37)	Sudan	92 172	0.31	98.22	0.10
29	(27)	Poland	88 140	0.30	98.51	0.09
30	(28)	Venezuela	75 000	0.25	98.76	0.06
31	(33)	Philippines	35 000	0.12	98.88	0.01
32	(34)	Austria	35 000	0.12	99.00	0.01
33	(38)	Nigeria	34 144	0.11	99.11	0.01
34	(29)	Ukraine	33 627	0.11	99.22	0.01
35	(35)	Morocco	33 600	0.11	99.34	0.01
36	(30)	Australia	31 768	0.11	99.44	0.01
37	(44)	Guatemala	30 428	0.10	99.54	0.01
38	(36)	Sweden	22 000	0.07	99.62	0.01
39	(40)	Serbia	20 000	0.07	99.69	0.00
40	(39)	Macedonia	19 919	0.07	99.75	0.00
41	(32)	Finland	18 549	0.06	99.81	0.00
42	(41)	Peru	16 630	0.06	99.87	0.00
43	(43)	Colombia	15 107	0.05	99.92	0.00
44	(42)	Romania	13 000	0.04	99.96	0.00

DATA

45	(45)	Chile	6 352	0.02	99.99	0.00
46	(46)	Cuba	3 900	0.01	100.00	0.00
47	(47)	Uruguay	460	0.00	100.00	0.00
Total			29 864 015	100.00		HHI 1 461

FLUORSPAR

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	4 200 000	69.90	69.90	4 885.95
2	(2)	Mexico	655 255	10.91	80.80	118.92
3	(3)	Mongolia	248 900	4.14	84.95	17.16
4	(5)	Vietnam	218 878	3.64	88.59	13.27
5	(4)	South Africa	180 000	3.00	91.59	8.97
6	(7)	Spain	130 131	2.17	93.75	4.69
7	(8)	Morocco	73 920	1.23	94.98	1.51
8	(11)	Iran	70 820	1.18	96.16	1.39
9	(10)	Germany	52 552	0.87	97.03	0.76
10	(9)	Kenya	42 656	0.71	97.74	0.50
11	(12)	Argentina	39 000	0.65	98.39	0.42
12	(13)	Brazil	24 000	0.40	98.79	0.16
13	(15)	Thailand	20 100	0.33	99.13	0.11
14	(14)	United Kingdom	17 000	0.28	99.41	0.08
15	(17)	Turkey	10 339	0.17	99.58	0.03
16	(18)	Pakistan	9 494	0.16	99.74	0.02
17	(16)	Russia	8 000	0.13	99.87	0.02
18	(6)	Bulgaria	4 400	0.07	99.95	0.01
19	(21)	Afghanistan	2 000	0.03	99.98	0.00
20	(20)	India	1 175	0.02	100.00	0.00
Total			6 008 620	100.00		HHI 5 054

GRAPHITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	780 000	69.27	69.27	4 798.57
2	(2)	India	122 437	10.87	80.15	118.24
3	(3)	Brazil	72 000	6.39	86.54	40.89
4	(4)	Korea, North	47 000	4.17	90.71	17.42
5	(5)	Canada	30 000	2.66	93.38	7.10
6	(6)	Russia	19 000	1.69	95.07	2.85
7	(10)	Mexico	14 200	1.26	96.33	1.59
8	(7)	Ukraine	12 000	1.07	97.39	1.14
9	(8)	Norway	10 000	0.89	98.28	0.79
10	(9)	Madagascar	9 230	0.82	99.10	0.67
11	(11)	Zimbabwe	5 622	0.50	99.60	0.25
12	(12)	Sri Lanka	3 860	0.34	99.94	0.12
13	(13)	Germany	502	0.04	99.99	0.00
14	(15)	Austria	150	0.01	100.00	0.00

Abbreviations: see Explanation

Total 1 126 001 100.00 HHI 4 990

GYPSUM AND ANHYDRITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	50 000 000	28.63	28.63	819.69
2	(3)	United States	17 000 000	9.73	38.36	94.76
3	(2)	Iran	15 715 011	9.00	47.36	80.97
4	(4)	Thailand	11 746 811	6.73	54.09	45.24
5	(5)	Turkey	10 124 221	5.80	59.89	33.61
6	(6)	Spain	8 770 650	5.02	64.91	25.22
7	(8)	Oman	7 857 600	4.50	69.41	20.24
8	(7)	Mexico	7 682 807	4.40	73.81	19.35
9	(9)	Russia	4 200 000	2.40	76.21	5.78
10	(10)	Australia	3 971 920	2.27	78.49	5.17
11	(12)	Germany	3 970 000	2.27	80.76	5.17
12	(11)	Brazil	3 450 000	1.98	82.74	3.90
13	(15)	Saudi Arabia	3 000 000	1.72	84.45	2.95
14	(13)	India	2 500 000	1.43	85.88	2.05
15	(14)	Algeria	2 200 000	1.26	87.14	1.59
16	(19)	Pakistan	1 871 716	1.07	88.22	1.15
17	(16)	France	1 734 975	0.99	89.21	0.99
18	(17)	Canada	1 682 445	0.96	90.17	0.93
19	(18)	Argentina	1 500 000	0.86	91.03	0.74
20	(20)	Ukraine	1 303 000	0.75	91.78	0.56
21	(21)	United Kingdom	1 200 000	0.69	92.46	0.47
22	(22)	Poland	1 043 000	0.60	93.06	0.36
23	(26)	Chile	934 033	0.53	93.60	0.29
24	(24)	Romania	890 000	0.51	94.11	0.26
25	(25)	Egypt	850 000	0.49	94.59	0.24
26	(29)	Greece	777 990	0.45	95.04	0.20
27	(31)	Cyprus	682 024	0.39	95.43	0.15
28	(27)	Austria	674 346	0.39	95.82	0.15
29	(28)	Tunisia	650 000	0.37	96.19	0.14
30	(30)	Italy	617 188	0.35	96.54	0.12
31	(23)	Laos	469 436	0.27	96.81	0.07
32	(35)	Dominican Republic	350 000	0.20	97.01	0.04
33	(55)	Myanmar	338 492	0.19	97.20	0.04
34	(32)	Colombia	331 245	0.19	97.39	0.04
35	(36)	Switzerland	320 000	0.18	97.58	0.03
36	(34)	Bhutan	317 597	0.18	97.76	0.03
37	(37)	Portugal	310 000	0.18	97.94	0.03
38	(33)	Peru	257 423	0.15	98.08	0.02
39	(41)	South Africa	257 289	0.15	98.23	0.02
40	(40)	Ireland	250 000	0.14	98.37	0.02
41	(42)	Latvia	224 000	0.13	98.50	0.02
42	(39)	Tanzania	213 700	0.12	98.62	0.01
43	(44)	Moldova	204 400	0.12	98.74	0.01
44	(45)	Macedonia	202 582	0.12	98.86	0.01
45	(46)	Israel	160 000	0.09	98.95	0.01
46	(43)	Azerbaijan	155 800	0.09	99.04	0.01
47	(49)	Croatia	150 430	0.09	99.12	0.01
48	(47)	Libya	150 000	0.09	99.21	0.01

DATA

49	(57)	Albania	132 000	0.08	99.29	0.01
50	(50)	Guatemala	130 617	0.07	99.36	0.01
51	(51)	Lebanon	110 000	0.06	99.42	0.00
52	(53)	Yemen	100 000	0.06	99.48	0.00
53	(58)	Norway	82 386	0.05	99.53	0.00
54	(38)	Jordan	81 000	0.05	99.57	0.00
55	(59)	Mauritania	80 000	0.05	99.62	0.00
56	(56)	Cuba	73 900	0.04	99.66	0.00
57	(62)	Bosnia-Herzegovina	61 231	0.04	99.70	0.00
58	(52)	Bulgaria	60 900	0.03	99.73	0.00
59	(61)	Kyrgyzstan	60 000	0.03	99.77	0.00
60	(64)	Nicaragua	57 949	0.03	99.80	0.00
61	(63)	Afghanistan	57 000	0.03	99.83	0.00
62	(60)	Slovakia	52 300	0.03	99.86	0.00
63	(66)	Jamaica	50 000	0.03	99.89	0.00
64	(54)	Syria	50 000	0.03	99.92	0.00
65	(65)	Ethiopia	45 000	0.03	99.95	0.00
66	(67)	Sudan	34 924	0.02	99.97	0.00
67	(68)	Armenia	14 831	0.01	99.97	0.00
68	(69)	Czech Republic	10 000	0.01	99.98	0.00
69	(70)	Tajikistan	8 750	0.01	99.99	0.00
70	(71)	Indonesia	8 000	0.00	99.99	0.00
71	(72)	Kenya	5 760	0.00	99.99	0.00
72	(74)	Honduras	5 000	0.00	100.00	0.00
73	(73)	Paraguay	4 500	0.00	100.00	0.00
74	(76)	Bolivia	1 182	0.00	100.00	0.00
75	(75)	Eritrea	1 000	0.00	100.00	0.00
Total			174 640 361	100.00	HHI 1 173	

KAOLIN

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	7 240 000	18.57	18.57	344.88
2	(2)	United States	5 170 000	13.26	31.83	175.86
3	(4)	Germany	4 740 000	12.16	43.99	147.83
4	(3)	India	4 110 000	10.54	54.53	111.14
5	(5)	Czech Republic	3 540 000	9.08	63.61	82.45
6	(7)	Ukraine	2 335 004	5.99	69.60	35.87
7	(8)	Brazil	1 916 995	4.92	74.52	24.18
8	(6)	Turkey	1 283 260	3.29	77.81	10.83
9	(9)	United Kingdom	1 020 000	2.62	80.43	6.85
10	(10)	Iran	868 179	2.23	82.66	4.96
11	(11)	Indonesia	680 000	1.74	84.40	3.04
12	(12)	Vietnam	650 000	1.67	86.07	2.78
13	(14)	Mexico	452 070	1.16	87.23	1.34
14	(17)	Italy	408 810	1.05	88.27	1.10
15	(15)	Korea, South	366 511	0.94	89.21	0.88
16	(16)	Bulgaria	338 600	0.87	90.08	0.75
17	(13)	Spain	330 000	0.85	90.93	0.72
18	(25)	Uzbekistan	323 680	0.83	91.76	0.69
19	(18)	Egypt	300 000	0.77	92.53	0.59
20	(20)	Poland	299 830	0.77	93.30	0.59
21	(19)	Malaysia	284 023	0.73	94.03	0.53

Abbreviations: see Explanation

DATA

22	(22)	Bosnia-Herzegovina	271 502	0.70	94.72	0.49
23	(21)	France	263 993	0.68	95.40	0.46
24	(23)	Portugal	261 912	0.67	96.07	0.45
25	(24)	Kyrgyzstan	200 000	0.51	96.59	0.26
26	(28)	Saudi Arabia	196 000	0.50	97.09	0.25
27	(26)	Oman	188 300	0.48	97.57	0.23
28	(27)	Australia	156 354	0.40	97.97	0.16
29	(29)	Serbia	110 000	0.28	98.25	0.08
30	(30)	Thailand	101 618	0.26	98.52	0.07
31	(34)	Algeria	96 000	0.25	98.76	0.06
32	(44)	New Zealand	61 650	0.16	98.92	0.03
33	(32)	Chile	60 000	0.15	99.07	0.02
34	(36)	Argentina	50 000	0.13	99.20	0.02
35	(35)	Russia	50 000	0.13	99.33	0.02
36	(38)	Uganda	45 909	0.12	99.45	0.01
37	(39)	Romania	31 000	0.08	99.53	0.01
38	(41)	Nigeria	24 104	0.06	99.59	0.00
39	(42)	Pakistan	21 683	0.06	99.64	0.00
40	(40)	South Africa	21 141	0.05	99.70	0.00
41	(37)	Peru	19 262	0.05	99.75	0.00
42	(45)	Austria	13 558	0.03	99.78	0.00
43	(47)	Sri Lanka	13 000	0.03	99.82	0.00
44	(46)	Japan	12 000	0.03	99.85	0.00
45	(33)	Jordan	11 935	0.03	99.88	0.00
46	(50)	Slovakia	11 923	0.03	99.91	0.00
47	(48)	Philippines	8 000	0.02	99.93	0.00
48	(43)	Sudan	6 500	0.02	99.95	0.00
49	(49)	Paraguay	6 000	0.02	99.96	0.00
50	(31)	Ecuador	4 110	0.01	99.97	0.00
51	(51)	Ethiopia	3 500	0.01	99.98	0.00
52	(53)	Cuba	2 500	0.01	99.99	0.00
53	(52)	Tanzania	2 000	0.01	99.99	0.00
54	(56)	Taiwan	1 000	0.00	99.99	0.00
55	(55)	Kenya	1 000	0.00	100.00	0.00
56	(54)	Guatemala	793	0.00	100.00	0.00
57	(57)	Eritrea	200	0.00	100.00	0.00
Total			38 985 409	100.00	HHI	961

MAGNESITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	16 840 000	64.74	64.74	4 191.75
2	(2)	Turkey	3 258 445	12.53	77.27	156.94
3	(3)	Russia	1 188 900	4.57	81.84	20.89
4	(7)	Brazil	1 000 000	3.84	85.69	14.78
5	(4)	Slovakia	683 400	2.63	88.31	6.90
6	(5)	Austria	565 892	2.18	90.49	4.73
7	(6)	Australia	469 455	1.80	92.29	3.26
8	(9)	Greece	397 940	1.53	93.82	2.34
9	(8)	Spain	386 000	1.48	95.31	2.20
10	(10)	India	299 167	1.15	96.46	1.32
11	(12)	Korea, North	167 000	0.64	97.10	0.41
12	(13)	Canada	150 000	0.58	97.68	0.33

Abbreviations: see Explanation

DATA

13	(11)	Iran	145 223	0.56	98.24	0.31
14	(14)	Mexico	101 000	0.39	98.62	0.15
15	(16)	Saudi Arabia	100 000	0.38	99.01	0.15
16	(15)	Poland	77 920	0.30	99.31	0.09
17	(18)	Finland	54 227	0.21	99.52	0.04
18	(22)	Pakistan	35 228	0.14	99.65	0.02
19	(20)	South Africa	28 000	0.11	99.76	0.01
20	(19)	Serbia	25 000	0.10	99.86	0.01
21	(17)	Guatemala	23 954	0.09	99.95	0.01
22	(23)	Bosnia-Herzegovina	7 300	0.03	99.98	0.00
23	(21)	Philippines	6 200	0.02	100.00	0.00
Total			26 010 251	100.00	HHI 4 407	

PERLITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(2)	Turkey	1 066 251	38.82	38.82	1 507.30
2	(1)	Greece	921 410	33.55	72.37	1 125.61
3	(3)	United States	513 000	18.68	91.05	348.91
4	(6)	Russia	45 000	1.64	92.69	2.68
5	(5)	Armenia	44 820	1.63	94.32	2.66
6	(7)	Hungary	31 000	1.13	95.45	1.27
7	(8)	Slovakia	25 000	0.91	96.36	0.83
8	(9)	Argentina	24 000	0.87	97.24	0.76
9	(12)	Mexico	19 000	0.69	97.93	0.48
10	(4)	Iran	17 083	0.62	98.55	0.39
11	(11)	Philippines	17 000	0.62	99.17	0.38
12	(10)	Thailand	15 690	0.57	99.74	0.33
13	(13)	Chile	5 500	0.20	99.94	0.04
14	(14)	South Africa	1 000	0.04	99.98	0.00
15	(**)	Australia	620	0.02	100.00	0.00
Total			2 746 374	100.00	HHI 2 992	

PHOSPHATES (P₂O₅-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	43 319 400	51.58	51.58	2 660.58
2	(2)	Morocco	8 601 000	10.24	61.82	104.88
3	(3)	United States	7 615 000	9.07	70.89	82.22
4	(4)	Russia	4 836 000	5.76	76.65	33.16
5	(5)	Peru	4 013 220	4.78	81.43	22.83
6	(6)	Jordan	2 557 170	3.04	84.47	9.27
7	(7)	Brazil	2 012 500	2.40	86.87	5.74
8	(8)	Egypt	1 595 000	1.90	88.77	3.61
9	(10)	Saudi Arabia	1 080 000	1.29	90.05	1.65
10	(9)	Israel	1 065 700	1.27	91.32	1.61
11	(11)	Tunisia	1 062 400	1.27	92.59	1.60

Abbreviations: see Explanation

DATA

12	(15)	Mexico	988 280	1.18	93.76	1.38
13	(14)	Senegal	886 500	1.06	94.82	1.11
14	(12)	Vietnam	854 820	1.02	95.84	1.04
15	(13)	South Africa	593 800	0.71	96.54	0.50
16	(16)	Algeria	433 500	0.52	97.06	0.27
17	(18)	Kazakhstan	348 600	0.42	97.47	0.17
18	(19)	Finland	338 230	0.40	97.88	0.16
19	(17)	Togo	306 600	0.37	98.24	0.13
20	(20)	India	270 550	0.32	98.56	0.10
21	(21)	Australia	238 494	0.28	98.85	0.08
22	(23)	Turkey	231 800	0.28	99.12	0.08
23	(25)	Uzbekistan	170 000	0.20	99.33	0.04
24	(24)	Christmas Island	148 120	0.18	99.50	0.03
25	(22)	Syria	100 000	0.12	99.62	0.01
26	(26)	Korea, North	95 000	0.11	99.74	0.01
27	(27)	Iran	77 912	0.09	99.83	0.01
28	(**)	Iraq	40 000	0.05	99.88	0.00
29	(29)	Nauru	39 800	0.05	99.92	0.00
30	(32)	Pakistan	20 730	0.02	99.95	0.00
31	(31)	Sri Lanka	14 120	0.02	99.97	0.00
32	(30)	Colombia	10 720	0.01	99.98	0.00
33	(28)	Tanzania	5 200	0.01	99.98	0.00
34	(33)	Venezuela	5 000	0.01	99.99	0.00
35	(35)	Philippines	4 500	0.01	100.00	0.00
36	(36)	Malawi	2 100	0.00	100.00	0.00
37	(34)	Chile	1 740	0.00	100.00	0.00
Total			83 983 506	100.00		HHI 2 932

POTASH (K₂O-CONTENT)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Canada	10 768 369	27.15	27.15	736.92
2	(2)	Russia	6 480 000	16.34	43.48	266.85
3	(3)	Belarus	6 180 100	15.58	59.06	242.72
4	(4)	China	5 783 000	14.58	73.64	212.53
5	(5)	Germany	2 694 126	6.79	80.43	46.13
6	(7)	Israel	2 093 100	5.28	85.71	27.84
7	(8)	Chile	1 303 840	3.29	89.00	10.80
8	(6)	Jordan	1 222 140	3.08	92.08	9.49
9	(11)	Iran	929 400	2.34	94.42	5.49
10	(10)	Spain	672 246	1.69	96.11	2.87
11	(9)	United States	500 000	1.26	97.37	1.59
12	(12)	United Kingdom	460 000	1.16	98.53	1.34
13	(13)	Brazil	300 000	0.76	99.29	0.57
14	(14)	Laos	198 600	0.50	99.79	0.25
15	(15)	Uzbekistan	83 000	0.21	100.00	0.04
Total			39 667 921	100.00		HHI 1 565

SALT

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	63 095 000	22.81	22.81	520.09
2	(2)	United States	42 000 000	15.18	37.99	230.46
3	(3)	India	29 192 000	10.55	48.54	111.33
4	(5)	Germany	14 335 123	5.18	53.72	26.85
5	(6)	Australia	10 915 357	3.95	57.66	15.57
6	(4)	Canada	10 290 332	3.72	61.38	13.83
7	(8)	Mexico	9 785 053	3.54	64.92	12.51
8	(7)	Chile	8 139 914	2.94	67.86	8.66
9	(9)	Brazil	7 600 000	2.75	70.61	7.55
10	(10)	France	6 750 000	2.44	73.05	5.95
11	(11)	Netherlands	6 625 418	2.39	75.44	5.73
12	(12)	Turkey	5 328 256	1.93	77.37	3.71
13	(13)	United Kingdom	4 600 000	1.66	79.03	2.76
14	(16)	Russia	4 520 000	1.63	80.67	2.67
15	(17)	Poland	4 079 000	1.47	82.14	2.17
16	(14)	Spain	3 885 940	1.40	83.55	1.97
17	(20)	Pakistan	3 867 325	1.40	84.94	1.95
18	(18)	Bulgaria	3 300 000	1.19	86.14	1.42
19	(15)	Iran	2 995 025	1.08	87.22	1.17
20	(19)	Italy	2 550 849	0.92	88.14	0.85
21	(25)	Belarus	2 300 000	0.83	88.97	0.69
22	(22)	Romania	2 100 000	0.76	89.73	0.58
23	(24)	Saudi Arabia	2 000 000	0.72	90.45	0.52
24	(23)	Ukraine	1 783 530	0.64	91.10	0.42
25	(27)	Argentina	1 600 000	0.58	91.68	0.33
26	(30)	Bangladesh	1 555 000	0.56	92.24	0.32
27	(26)	Egypt	1 500 000	0.54	92.78	0.29
28	(28)	Peru	1 450 415	0.52	93.31	0.27
29	(29)	Thailand	1 390 548	0.50	93.81	0.25
30	(33)	Philippines	1 238 610	0.45	94.26	0.20
31	(31)	Tunisia	1 130 000	0.41	94.66	0.17
32	(34)	Austria	1 034 003	0.37	95.04	0.14
33	(37)	Bosnia-Herzegovina	966 177	0.35	95.39	0.12
34	(32)	Vietnam	933 200	0.34	95.72	0.11
35	(36)	Japan	928 000	0.34	96.06	0.11
36	(38)	Namibia	835 539	0.30	96.36	0.09
37	(40)	Kazakhstan	730 283	0.26	96.63	0.07
38	(39)	Venezuela	640 000	0.23	96.86	0.05
39	(42)	Morocco	634 610	0.23	97.09	0.05
40	(41)	Denmark	600 000	0.22	97.30	0.05
41	(46)	Colombia	564 194	0.20	97.51	0.04
42	(44)	Korea, North	500 000	0.18	97.69	0.03
43	(43)	South Africa	487 569	0.18	97.86	0.03
44	(45)	Switzerland	477 000	0.17	98.04	0.03
45	(49)	Israel	420 000	0.15	98.19	0.02
46	(47)	Botswana	399 837	0.14	98.33	0.02
47	(48)	Korea, South	323 470	0.12	98.45	0.01
48	(50)	Ethiopia	320 000	0.12	98.57	0.01
49	(35)	Bahamas	308 007	0.11	98.68	0.01
50	(52)	Senegal	263 218	0.10	98.77	0.01
51	(53)	Ghana	250 000	0.09	98.86	0.01

Abbreviations: see Explanation

DATA

52	(51)	Cuba	248 000	0.09	98.95	0.01
53	(60)	Myanmar	221 270	0.08	99.03	0.01
54	(54)	Iraq	180 000	0.07	99.10	0.00
55	(57)	Tanzania	178 200	0.06	99.16	0.00
56	(58)	Mozambique	160 000	0.06	99.22	0.00
57	(61)	Greece	158 020	0.06	99.28	0.00
58	(55)	Algeria	158 000	0.06	99.33	0.00
59	(56)	Cambodia	148 900	0.05	99.39	0.00
60	(21)	Indonesia	141 000	0.05	99.44	0.00
61	(62)	Croatia	112 000	0.04	99.48	0.00
62	(80)	Sri Lanka	106 063	0.04	99.52	0.00
63	(65)	Turkmenistan	100 000	0.04	99.55	0.00
64	(64)	El Salvador	100 000	0.04	99.59	0.00
65	(63)	New Zealand	100 000	0.04	99.63	0.00
66	(72)	Angola	93 000	0.03	99.66	0.00
67	(68)	Taiwan	80 000	0.03	99.69	0.00
68	(67)	Madagascar	80 000	0.03	99.72	0.00
69	(59)	Armenia	68 435	0.02	99.74	0.00
70	(70)	Kuwait	65 000	0.02	99.77	0.00
71	(74)	Azerbaijan	63 931	0.02	99.79	0.00
72	(73)	Honduras	59 000	0.02	99.81	0.00
73	(66)	Afghanistan	56 928	0.02	99.83	0.00
74	(71)	Nicaragua	55 000	0.02	99.85	0.00
75	(69)	Yemen	50 000	0.02	99.87	0.00
76	(76)	Laos	36 398	0.01	99.88	0.00
77	(75)	Tajikistan	35 238	0.01	99.89	0.00
78	(78)	Libya	30 000	0.01	99.90	0.00
79	(81)	Eritrea	28 000	0.01	99.92	0.00
80	(82)	Dominican Republic	26 000	0.01	99.92	0.00
81	(83)	Panama	23 470	0.01	99.93	0.00
82	(85)	Kenya	23 425	0.01	99.94	0.00
83	(86)	Sudan	22 340	0.01	99.95	0.00
84	(79)	Syria	20 000	0.01	99.96	0.00
85	(84)	Albania	15 500	0.01	99.96	0.00
86	(88)	Jamaica	15 354	0.01	99.97	0.00
87	(77)	Portugal	15 348	0.01	99.97	0.00
88	(87)	Lebanon	15 000	0.01	99.98	0.00
89	(90)	Oman	12 100	0.00	99.98	0.00
90	(91)	Jordan	10 000	0.00	99.99	0.00
91	(89)	Serbia	9 149	0.00	99.99	0.00
92	(93)	Malta	5 000	0.00	99.99	0.00
93	(92)	Iceland	5 000	0.00	99.99	0.00
94	(94)	Kyrgyzstan	4 900	0.00	100.00	0.00
95	(96)	Bolivia	4 534	0.00	100.00	0.00
96	(95)	Benin	4 000	0.00	100.00	0.00
97	(97)	Slovenia	2 417	0.00	100.00	0.00
98	(99)	Cape Verde	1 000	0.00	100.00	0.00
99	(98)	Mongolia	478	0.00	100.00	0.00
Total			276 665 200	100.00	HHI	982

Abbreviations: see Explanation

SULFUR

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(2)	United States	9 740 000	14.33	14.33	205.28
2	(1)	China	9 150 000	13.46	27.79	181.17
3	(3)	Russia	6 960 000	10.24	38.03	104.82
4	(4)	Canada	5 317 000	7.82	45.85	61.17
5	(5)	Saudi Arabia	4 900 000	7.21	53.06	51.96
6	(6)	Japan	3 517 800	5.17	58.23	26.78
7	(8)	India	2 927 500	4.31	62.54	18.55
8	(7)	Kazakhstan	2 850 000	4.19	66.73	17.58
9	(11)	United Arab Emirates	2 200 000	3.24	69.97	10.47
10	(10)	Iran	2 200 000	3.24	73.20	10.47
11	(9)	Qatar	2 068 000	3.04	76.24	9.25
12	(12)	Korea, South	2 000 000	2.94	79.19	8.66
13	(13)	Chile	1 866 500	2.75	81.93	7.54
14	(14)	Philippines	1 134 400	1.67	83.60	2.78
15	(15)	Australia	900 000	1.32	84.92	1.75
16	(18)	Kuwait	850 000	1.25	86.17	1.56
17	(17)	Finland	781 400	1.15	87.32	1.32
18	(19)	Venezuela	700 000	1.03	88.35	1.06
19	(20)	Italy	675 700	0.99	89.35	0.99
20	(16)	Mexico	673 285	0.99	90.34	0.98
21	(21)	Poland	645 000	0.95	91.29	0.90
22	(22)	Germany	577 684	0.85	92.14	0.72
23	(24)	Peru	543 700	0.80	92.94	0.64
24	(25)	Indonesia	540 000	0.79	93.73	0.63
25	(26)	Brazil	530 000	0.78	94.51	0.61
26	(27)	Spain	502 000	0.74	95.25	0.55
27	(23)	Turkmenistan	400 000	0.59	95.84	0.35
28	(28)	France	380 000	0.56	96.40	0.31
29	(30)	Zambia	363 000	0.53	96.93	0.29
30	(31)	South Africa	280 830	0.41	97.34	0.17
31	(29)	Bulgaria	258 000	0.38	97.72	0.14
32	(33)	Taiwan	195 100	0.29	98.01	0.08
33	(34)	Greece	185 000	0.27	98.28	0.07
34	(35)	United Kingdom	135 000	0.20	98.48	0.04
35	(32)	Jordan	130 000	0.19	98.67	0.04
36	(36)	Bahrain	123 630	0.18	98.85	0.03
37	(37)	Ukraine	120 000	0.18	99.03	0.03
38	(38)	Norway	110 000	0.16	99.19	0.03
39	(41)	Lithuania	94 520	0.14	99.33	0.02
40	(42)	Egypt	80 000	0.12	99.45	0.01
41	(43)	Turkey	78 000	0.11	99.56	0.01
42	(40)	Libya	75 000	0.11	99.67	0.01
43	(44)	Colombia	63 500	0.09	99.77	0.01
44	(46)	Korea, North	42 000	0.06	99.83	0.00
45	(47)	Iraq	40 000	0.06	99.89	0.00
46	(45)	Oman	35 560	0.05	99.94	0.00
47	(48)	Pakistan	14 869	0.02	99.96	0.00
48	(49)	Armenia	8 500	0.01	99.97	0.00

DATA

49	(39)	Denmark	6 144	0.01	99.98	0.00
50	(51)	Algeria	6 000	0.01	99.99	0.00
51	(50)	Austria	5 474	0.01	100.00	0.00
Total			67 980 096	100.00		HHI 730

TALC

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	2 000 000	26.70	26.70	712.88
2	(2)	India	950 000	12.68	39.38	160.84
3	(3)	Brazil	750 000	10.01	49.39	100.25
4	(5)	Korea, South	592 247	7.91	57.30	62.51
5	(4)	United States	536 000	7.16	64.46	51.20
6	(6)	France	450 000	6.01	70.46	36.09
7	(7)	Japan	375 000	5.01	75.47	25.06
8	(8)	Finland	345 739	4.62	80.09	21.30
9	(9)	Turkey	203 214	2.71	82.80	7.36
10	(10)	Canada	202 000	2.70	85.50	7.27
11	(11)	Italy	165 000	2.20	87.70	4.85
12	(13)	Russia	150 000	2.00	89.70	4.01
13	(15)	Pakistan	125 985	1.68	91.38	2.83
14	(14)	Austria	123 040	1.64	93.03	2.70
15	(18)	Thailand	103 926	1.39	94.41	1.92
16	(16)	Australia	100 000	1.33	95.75	1.78
17	(12)	Iran	87 899	1.17	96.92	1.38
18	(25)	Saudi Arabia	42 000	0.56	97.48	0.31
19	(19)	Korea, North	40 000	0.53	98.02	0.29
20	(21)	Egypt	30 000	0.40	98.42	0.16
21	(17)	Peru	29 379	0.39	98.81	0.15
22	(20)	Argentina	24 000	0.32	99.13	0.10
23	(22)	South Africa	23 576	0.31	99.44	0.10
24	(24)	Portugal	11 699	0.16	99.60	0.02
25	(23)	Mexico	11 392	0.15	99.75	0.02
26	(27)	United Kingdom	5 500	0.07	99.83	0.01
27	(30)	Sudan	4 250	0.06	99.88	0.00
28	(29)	Guatemala	2 733	0.04	99.92	0.00
29	(26)	Bhutan	2 261	0.03	99.95	0.00
30	(28)	Nepal	1 860	0.02	99.97	0.00
31	(31)	Slovakia	800	0.01	99.98	0.00
32	(32)	Macedonia	715	0.01	99.99	0.00
33	(33)	Uruguay	290	0.00	100.00	0.00
34	(34)	Taiwan	160	0.00	100.00	0.00
Total			7 490 665	100.00		HHI 1 205

VERMICULITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	166 483	37.40	37.40	1 399.04
2	(2)	United States	100 000	22.47	59.87	504.77
3	(3)	Brazil	58 000	13.03	72.90	169.80
4	(4)	China	50 000	11.23	84.14	126.19
5	(5)	Zimbabwe	29 316	6.59	90.72	43.38
6	(7)	Russia	20 000	4.49	95.21	20.19
7	(6)	India	6 543	1.47	96.68	2.16
8	(8)	Japan	6 000	1.35	98.03	1.82
9	(10)	Uganda	3 295	0.74	98.77	0.55
10	(9)	Egypt	3 000	0.67	99.45	0.45
11	(12)	Turkey	1 050	0.24	99.68	0.06
12	(11)	Iran	1 000	0.22	99.91	0.05
13	(14)	Mexico	310	0.07	99.98	0.00
14	(13)	Kenya	100	0.02	100.00	0.00
Total			445 097	100.00		HHI 2 268

ZIRCON

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Australia	559 800	40.47	40.47	1 637.58
2	(2)	South Africa	370 540	26.79	67.25	717.47
3	(3)	China	100 000	7.23	74.48	52.26
4	(5)	Mozambique	68 200	4.93	79.41	24.31
5	(6)	Senegal	52 627	3.80	83.22	14.47
6	(4)	United States	50 000	3.61	86.83	13.06
7	(9)	Kenya	39 687	2.87	89.70	8.23
8	(7)	Indonesia	34 800	2.52	92.21	6.33
9	(8)	Ukraine	29 280	2.12	94.33	4.48
10	(10)	Brazil	24 000	1.73	96.07	3.01
11	(11)	India	18 000	1.30	97.37	1.69
12	(12)	Madagascar	12 250	0.89	98.25	0.78
13	(14)	Vietnam	9 300	0.67	98.93	0.45
14	(13)	Russia	7 704	0.56	99.48	0.31
15	(19)	Sri Lanka	4 117	0.30	99.78	0.09
16	(17)	Sierra Leone	1 000	0.07	99.85	0.01
17	(15)	Nigeria	891	0.06	99.92	0.00
18	(18)	Malaysia	653	0.05	99.96	0.00
19	(16)	Turkey	500	0.04	100.00	0.00
Total			1 383 349	100.00		HHI 2 485

6.5.5 MINERAL FUELS

STEAM COAL

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	2 491 793 000	47.42	47.42	2 248.46
2	(3)	India	601 131 000	11.44	58.86	130.86
3	(2)	United States	553 936 000	10.54	69.40	111.12
4	(4)	Indonesia	459 469 000	8.74	78.14	76.45
5	(6)	South Africa	253 452 000	4.82	82.97	23.26
6	(5)	Australia	250 401 000	4.77	87.73	22.71
7	(7)	Russia	226 526 100	4.31	92.04	18.58
8	(9)	Colombia	86 382 000	1.64	93.68	2.70
9	(8)	Kazakhstan	82 142 000	1.56	95.25	2.44
10	(10)	Poland	57 213 000	1.09	96.34	1.19
11	(11)	Vietnam	38 527 000	0.73	97.07	0.54
12	(12)	Korea, North	35 208 000	0.67	97.74	0.45
13	(13)	Canada	26 039 000	0.50	98.24	0.25
14	(14)	Ukraine	25 121 500	0.48	98.71	0.23
15	(16)	Philippines	12 087 000	0.23	98.94	0.05
16	(17)	Mexico	8 130 459	0.15	99.10	0.02
17	(18)	Mongolia	4 306 000	0.08	99.18	0.01
18	(15)	United Kingdom	4 124 800	0.08	99.26	0.01
19	(22)	Pakistan	3 749 312	0.07	99.33	0.01
20	(21)	Brazil	3 525 735	0.07	99.40	0.00
21	(20)	Czech Republic	3 095 300	0.06	99.46	0.00
22	(23)	Chile	2 525 171	0.05	99.50	0.00
23	(25)	Malaysia	2 414 764	0.05	99.55	0.00
24	(19)	Zimbabwe	2 273 000	0.04	99.59	0.00
25	(27)	Mozambique	2 203 430	0.04	99.63	0.00
26	(26)	Botswana	1 870 939	0.04	99.67	0.00
27	(31)	Turkey	1 817 000	0.03	99.71	0.00
28	(24)	Germany	1 807 100	0.03	99.74	0.00
29	(28)	Korea, South	1 727 046	0.03	99.77	0.00
30	(32)	Afghanistan	1 698 200	0.03	99.80	0.00
31	(34)	Tajikistan	1 361 575	0.03	99.83	0.00
32	(29)	New Zealand	1 359 000	0.03	99.86	0.00
33	(37)	Bangladesh	1 021 638	0.02	99.88	0.00
34	(45)	Nigeria	989 155	0.02	99.89	0.00
35	(33)	Norway	960 341	0.02	99.91	0.00
36	(35)	Venezuela	947 000	0.02	99.93	0.00
37	(30)	Spain	672 878	0.01	99.94	0.00
38	(36)	Myanmar	535 000	0.01	99.95	0.00
39	(39)	Georgia	296 500	0.01	99.96	0.00
40	(40)	Tanzania	278 701	0.01	99.96	0.00
41	(41)	Peru	266 236	0.01	99.97	0.00
42	(43)	Niger	246 631	0.00	99.97	0.00
43	(42)	Kyrgyzstan	244 000	0.00	99.98	0.00
44	(44)	Iran	208 000	0.00	99.98	0.00
45	(38)	Uzbekistan	160 000	0.00	99.99	0.00
46	(46)	Swaziland	158 418	0.00	99.99	0.00
47	(47)	Laos	138 809	0.00	99.99	0.00
48	(48)	Zambia	126 050	0.00	99.99	0.00

DATA

49	(49)	Bhutan	117 783	0.00	100.00	0.00
50	(50)	Italy	59 000	0.00	100.00	0.00
51	(53)	Romania	47 000	0.00	100.00	0.00
52	(51)	Malawi	43 338	0.00	100.00	0.00
53	(52)	Argentina	19 160	0.00	100.00	0.00
54	(54)	Bulgaria	5 900	0.00	100.00	0.00
55	(55)	Nepal	2 900	0.00	100.00	0.00
Total			5 254 960 869	100.00		HHI 2 639

COKING COAL

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	591 998 000	54.67	54.67	2 989.20
2	(2)	Australia	189 302 000	17.48	72.16	305.65
3	(3)	Russia	83 800 000	7.74	79.90	59.90
4	(4)	India	61 661 000	5.69	85.59	32.43
5	(5)	United States	50 645 000	4.68	90.27	21.88
6	(6)	Canada	25 960 000	2.40	92.67	5.75
7	(8)	Mongolia	22 842 000	2.11	94.77	4.45
8	(9)	Poland	13 082 000	1.21	95.98	1.46
9	(7)	Kazakhstan	10 498 000	0.97	96.95	0.94
10	(10)	Ukraine	6 508 800	0.60	97.55	0.36
11	(16)	Mexico	5 551 135	0.51	98.07	0.26
12	(11)	Colombia	4 130 000	0.38	98.45	0.15
13	(12)	Mozambique	3 862 959	0.36	98.80	0.13
14	(15)	South Africa	3 467 000	0.32	99.12	0.10
15	(13)	Czech Republic	2 978 700	0.28	99.40	0.08
16	(14)	Germany	2 041 900	0.19	99.59	0.04
17	(17)	New Zealand	1 213 000	0.11	99.70	0.01
18	(19)	Iran	1 018 000	0.09	99.79	0.01
19	(18)	Indonesia	1 013 000	0.09	99.89	0.01
20	(20)	Turkey	732 000	0.07	99.96	0.00
21	(21)	Zimbabwe	429 000	0.04	100.00	0.00
22	(22)	United Kingdom	53 000	0.00	100.00	0.00
Total			1 082 786 494	100.00		HHI 3 423

LIGNITE

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Germany	171 546 500	21.29	21.29	453.15
2	(2)	Russia	73 500 000	9.12	30.41	83.19
3	(4)	United States	66 506 800	8.25	38.66	68.11
4	(3)	Australia	63 571 000	7.89	46.55	62.23
5	(5)	Poland	60 273 000	7.48	54.03	55.94
6	(6)	Turkey	56 850 000	7.05	61.08	49.77
7	(8)	India	45 124 000	5.60	66.68	31.35
8	(9)	Czech Republic	38 646 000	4.80	71.48	23.00

Abbreviations: see Explanation

DATA

9	(10)	Serbia	37 652 520	4.67	76.15	21.83
10	(7)	Greece	32 674 790	4.05	80.21	16.44
11	(11)	Bulgaria	29 294 200	3.64	83.84	13.21
12	(12)	Romania	22 980 000	2.85	86.69	8.13
13	(13)	Thailand	16 978 601	2.11	88.80	4.44
14	(14)	Bosnia-Herzegovina	13 481 012	1.67	90.47	2.80
15	(21)	Laos	13 097 121	1.63	92.10	2.64
16	(15)	Hungary	9 263 270	1.15	93.25	1.32
17	(16)	Canada	8 979 000	1.11	94.36	1.24
18	(17)	Kosovo	8 800 848	1.09	95.45	1.19
19	(19)	Mongolia	6 332 000	0.79	96.24	0.62
20	(18)	Macedonia	5 101 758	0.63	96.87	0.40
21	(20)	Kazakhstan	5 041 300	0.63	97.50	0.39
22	(22)	Uzbekistan	3 717 400	0.46	97.96	0.21
23	(24)	Brazil	3 480 217	0.43	98.39	0.19
24	(23)	Slovenia	3 348 889	0.42	98.81	0.17
25	(25)	Korea, North	3 238 000	0.40	99.21	0.16
26	(29)	Kyrgyzstan	2 281 000	0.28	99.49	0.08
27	(26)	Slovakia	1 956 510	0.24	99.73	0.06
28	(27)	Montenegro	1 397 500	0.17	99.91	0.03
29	(28)	Spain	376 250	0.05	99.95	0.00
30	(30)	New Zealand	313 035	0.04	99.99	0.00
31	(32)	Myanmar	42 000	0.01	100.00	0.00
32	(31)	Albania	16 800	0.00	100.00	0.00
Total			805 861 321	100.00		HHI 902

NATURAL GAS

Rank 2016	Rank 2015	C o u n t r y	Production 2016 Mio m ³	Share in %	Share cum. %	Share HHI
1	(1)	United States	755 010	20.56	20.56	422.63
2	(2)	Russia	641 000	17.45	38.01	304.63
3	(3)	Iran	202 440	5.51	43.52	30.38
4	(4)	Qatar	181 250	4.94	48.46	24.36
5	(5)	Canada	157 179	4.28	52.74	18.32
6	(6)	China	136 830	3.73	56.46	13.88
7	(7)	Norway	116 654	3.18	59.64	10.09
8	(8)	Saudi Arabia	110 860	3.02	62.66	9.11
9	(10)	Australia	97 330	2.65	65.31	7.02
10	(9)	Algeria	94 953	2.59	67.89	6.68
11	(11)	Indonesia	74 670	2.03	69.93	4.13
12	(12)	Turkmenistan	74 000	2.01	71.94	4.06
13	(13)	Malaysia	67 557	1.84	73.78	3.38
14	(14)	Uzbekistan	63 253	1.72	75.50	2.97
15	(15)	United Arab Emirates	61 860	1.68	77.19	2.84
16	(17)	Nigeria	48 640	1.32	78.51	1.75
17	(18)	Netherlands	47 463	1.29	79.81	1.67
18	(16)	Mexico	47 180	1.28	81.09	1.65
19	(19)	Kazakhstan	46 676	1.27	82.36	1.62
20	(21)	Pakistan	41 958	1.14	83.50	1.31
21	(20)	Egypt	41 820	1.14	84.64	1.30
22	(22)	United Kingdom	41 607	1.13	85.78	1.28
23	(23)	Thailand	39 031	1.06	86.84	1.13
24	(25)	Argentina	38 270	1.04	87.88	1.09

Abbreviations: see Explanation

DATA

25	(26)	Oman	35 401	0.96	88.84	0.93
26	(24)	Trinidad and Tobago	34 418	0.94	89.78	0.88
27	(27)	Venezuela	34 290	0.93	90.71	0.87
28	(28)	India	30 866	0.84	91.56	0.71
29	(29)	Bangladesh	27 558	0.75	92.31	0.56
30	(30)	Brazil	25 337	0.69	93.00	0.48
31	(31)	Bolivia	21 147	0.58	93.57	0.33
32	(32)	Ukraine	20 052	0.55	94.12	0.30
33	(34)	Azerbaijan	18 718	0.51	94.63	0.26
34	(33)	Myanmar	18 490	0.50	95.13	0.25
35	(35)	Kuwait	17 291	0.47	95.60	0.22
36	(36)	Bahrain	15 200	0.41	96.02	0.17
37	(37)	Peru	14 001	0.38	96.40	0.15
38	(40)	Brunei	11 210	0.31	96.70	0.09
39	(42)	Vietnam	10 610	0.29	96.99	0.08
40	(39)	Libya	10 090	0.27	97.27	0.08
41	(38)	Colombia	9 900	0.27	97.53	0.07
42	(41)	Romania	9 811	0.27	97.80	0.07
43	(44)	Israel	9 300	0.25	98.06	0.06
44	(43)	Germany	8 608	0.23	98.29	0.05
45	(45)	Italy	5 785	0.16	98.45	0.02
46	(47)	Mozambique	5 160	0.14	98.59	0.02
47	(46)	Poland	5 073	0.14	98.73	0.02
48	(48)	New Zealand	4 878	0.13	98.86	0.02
49	(49)	Denmark	4 460	0.12	98.98	0.01
50	(51)	Philippines	3 980	0.11	99.09	0.01
51	(50)	Syria	3 740	0.10	99.19	0.01
52	(52)	Papua New Guinea	3 128	0.09	99.28	0.01
53	(54)	Japan	2 754	0.07	99.35	0.01
54	(77)	Ireland	2 750	0.07	99.43	0.01
55	(56)	Cote d'Ivoire	2 395	0.07	99.49	0.00
56	(55)	Tunisia	2 246	0.06	99.55	0.00
57	(64)	Angola	1 913	0.05	99.60	0.00
58	(57)	Hungary	1 823	0.05	99.65	0.00
59	(58)	Croatia	1 680	0.05	99.70	0.00
60	(61)	Austria	1 253	0.03	99.73	0.00
61	(60)	Cuba	1 185	0.03	99.77	0.00
62	(62)	Chile	1 175	0.03	99.80	0.00
63	(53)	Yemen	1 140	0.03	99.83	0.00
64	(63)	Iraq	1 130	0.03	99.86	0.00
65	(59)	South Africa	807	0.02	99.88	0.00
66	(65)	Ghana	530	0.01	99.90	0.00
67	(67)	Gabon	530	0.01	99.91	0.00
68	(66)	Ecuador	530	0.01	99.92	0.00
69	(68)	Serbia	399	0.01	99.94	0.00
70	(69)	Turkey	382	0.01	99.95	0.00
71	(71)	Cameroon	360	0.01	99.96	0.00
72	(70)	Taiwan	321	0.01	99.96	0.00
73	(72)	Belarus	215	0.01	99.97	0.00
74	(74)	Czech Republic	169	0.00	99.97	0.00
75	(75)	Afghanistan	165	0.00	99.98	0.00
76	(73)	Korea, South	156	0.00	99.98	0.00
77	(76)	Jordan	116	0.00	99.99	0.00
78	(78)	Slovakia	93	0.00	99.99	0.00
79	(81)	Albania	88	0.00	99.99	0.00
80	(79)	Morocco	86	0.00	99.99	0.00
81	(80)	Bulgaria	80	0.00	100.00	0.00
82	(82)	France	40	0.00	100.00	0.00

Abbreviations: see Explanation

DATA

83	(83)	Kyrgyzstan	30	0.00	100.00	0.00
84	(84)	Senegal	21	0.00	100.00	0.00
85	(85)	Barbados	20	0.00	100.00	0.00
86	(89)	Greece	9	0.00	100.00	0.00
87	(87)	Georgia	7	0.00	100.00	0.00
88	(86)	Spain	6	0.00	100.00	0.00
89	(90)	Slovenia	4	0.00	100.00	0.00
90	(88)	Tajikistan	3	0.00	100.00	0.00
Total			3 672 604	100.00		HHI 884

OIL SHALES

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Estonia	15 857 700	94.53	94.53	8 935.56
2	(2)	Germany	492 777	2.94	97.47	8.63
3	(3)	Israel	423 000	2.52	99.99	6.36
4	(4)	France	2 000	0.01	100.00	0.00
5	(5)	Austria	169	0.00	100.00	0.00
Total			16 775 646	100.00		HHI 8 951

PETROLEUM

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Saudi Arabia	585 699 600	13.62	13.62	185.37
2	(3)	Russia	547 306 140	12.72	26.34	161.87
3	(2)	United States	543 045 020	12.62	38.96	159.36
4	(5)	Iraq	218 939 500	5.09	44.05	25.90
5	(7)	Iran	216 431 380	5.03	49.08	25.31
6	(4)	China	199 685 000	4.64	53.72	21.55
7	(6)	Canada	193 614 400	4.50	58.22	20.26
8	(8)	United Arab Emirates	182 365 400	4.24	62.46	17.97
9	(9)	Kuwait	147 124 100	3.42	65.88	11.70
10	(12)	Brazil	130 144 400	3.03	68.91	9.15
11	(10)	Venezuela	124 058 900	2.88	71.79	8.32
12	(11)	Mexico	121 350 560	2.82	74.61	7.96
13	(14)	Norway	91 345 400	2.12	76.74	4.51
14	(13)	Nigeria	89 588 000	2.08	78.82	4.34
15	(15)	Angola	87 896 900	2.04	80.86	4.17
16	(17)	Qatar	79 443 000	1.85	82.71	3.41
17	(16)	Kazakhstan	78 031 800	1.81	84.52	3.29
18	(18)	Algeria	68 417 000	1.59	86.11	2.53
19	(20)	Oman	50 135 200	1.17	87.28	1.36
20	(21)	United Kingdom	47 872 100	1.11	88.39	1.24
21	(19)	Colombia	44 226 200	1.03	89.42	1.06
22	(22)	Azerbaijan	41 050 400	0.95	90.38	0.91
23	(23)	Indonesia	36 674 800	0.85	91.23	0.73
24	(24)	India	36 009 000	0.84	92.06	0.70

DATA

25	(25)	Egypt	33 835 000	0.79	92.85	0.62
26	(26)	Malaysia	33 193 400	0.77	93.62	0.60
27	(27)	Ecuador	27 377 000	0.64	94.26	0.41
28	(28)	Argentina	25 487 000	0.59	94.85	0.35
29	(29)	Libya	20 043 400	0.47	95.32	0.22
30	(30)	Vietnam	17 230 000	0.40	95.72	0.16
31	(31)	Australia	17 188 300	0.40	96.12	0.16
32	(32)	Equatorial Guinea	13 944 000	0.32	96.44	0.11
33	(34)	Thailand	12 858 470	0.30	96.74	0.09
34	(33)	Turkmenistan	12 702 150	0.30	97.04	0.09
35	(35)	Congo, Rep.	11 553 600	0.27	97.30	0.07
36	(36)	Gabon	11 480 000	0.27	97.57	0.07
37	(37)	Denmark	6 924 112	0.16	97.73	0.03
38	(38)	Peru	6 744 300	0.16	97.89	0.02
39	(40)	Brunei	5 925 600	0.14	98.03	0.02
40	(39)	South Sudan	5 840 050	0.14	98.16	0.02
41	(41)	Chad	5 478 000	0.13	98.29	0.02
42	(43)	Ghana	4 614 000	0.11	98.40	0.01
43	(44)	Cameroon	4 595 300	0.11	98.50	0.01
44	(45)	Pakistan	4 246 335	0.10	98.60	0.01
45	(48)	Sudan	4 228 400	0.10	98.70	0.01
46	(46)	Romania	3 801 000	0.09	98.79	0.01
47	(42)	Italy	3 746 000	0.09	98.88	0.01
48	(47)	Trinidad and Tobago	3 560 000	0.08	98.96	0.01
49	(49)	Papua New Guinea	2 907 400	0.07	99.03	0.00
50	(50)	Uzbekistan	2 662 000	0.06	99.09	0.00
51	(54)	Turkey	2 571 928	0.06	99.15	0.00
52	(51)	Cuba	2 539 800	0.06	99.21	0.00
53	(53)	Bahrain	2 422 200	0.06	99.26	0.00
54	(57)	Germany	2 355 028	0.05	99.32	0.00
55	(56)	Tunisia	2 283 300	0.05	99.37	0.00
56	(52)	Ukraine	2 272 100	0.05	99.42	0.00
57	(55)	Bolivia	2 261 100	0.05	99.48	0.00
58	(62)	Cote d'Ivoire	2 104 100	0.05	99.53	0.00
59	(60)	Belarus	1 645 000	0.04	99.56	0.00
60	(58)	New Zealand	1 584 650	0.04	99.60	0.00
61	(59)	Netherlands	1 273 800	0.03	99.63	0.00
62	(65)	Mongolia	1 125 300	0.03	99.66	0.00
63	(64)	Syria	1 101 250	0.03	99.68	0.00
64	(66)	Congo, D.R.	1 068 970	0.02	99.71	0.00
65	(63)	Albania	1 055 730	0.02	99.73	0.00
66	(67)	Serbia	960 000	0.02	99.75	0.00
67	(69)	Poland	957 050	0.02	99.78	0.00
68	(71)	Philippines	827 100	0.02	99.80	0.00
69	(73)	Niger	820 300	0.02	99.81	0.00
70	(72)	France	816 000	0.02	99.83	0.00
71	(70)	Suriname	815 700	0.02	99.85	0.00
72	(68)	Austria	809 189	0.02	99.87	0.00
73	(76)	Hungary	732 702	0.02	99.89	0.00
74	(74)	Croatia	684 000	0.02	99.90	0.00
75	(75)	Myanmar	598 400	0.01	99.92	0.00
76	(61)	Yemen	595 000	0.01	99.93	0.00
77	(79)	Bangladesh	559 240	0.01	99.95	0.00
78	(77)	Japan	494 000	0.01	99.96	0.00
79	(78)	Guatemala	448 100	0.01	99.97	0.00
80	(80)	Mauritania	235 600	0.01	99.97	0.00
81	(81)	Chile	215 080	0.00	99.98	0.00
82	(87)	Greece	173 486	0.00	99.98	0.00

Abbreviations: see Explanation

DATA

83	(84)	Kyrgyzstan	140 000	0.00	99.99	0.00
84	(82)	Spain	139 176	0.00	99.99	0.00
85	(83)	Czech Republic	116 000	0.00	99.99	0.00
86	(85)	Israel	76 000	0.00	99.99	0.00
87	(89)	Mozambique	65 080	0.00	99.99	0.00
88	(86)	Lithuania	63 500	0.00	100.00	0.00
89	(88)	South Africa	38 796	0.00	100.00	0.00
90	(90)	Georgia	38 600	0.00	100.00	0.00
91	(91)	Barbados	34 000	0.00	100.00	0.00
92	(92)	Tajikistan	25 134	0.00	100.00	0.00
93	(93)	Bulgaria	22 600	0.00	100.00	0.00
94	(95)	Slovakia	9 490	0.00	100.00	0.00
95	(96)	Taiwan	7 200	0.00	100.00	0.00
96	(97)	Morocco	4 850	0.00	100.00	0.00
97	(94)	Senegal	3 320	0.00	100.00	0.00
98	(98)	Jordan	400	0.00	100.00	0.00
99	(99)	Slovenia	379	0.00	100.00	0.00
Total			4 301 808 745	100.00		HHI 686

OIL SANDS (PART OF PETROLEUM)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Canada	120 401 200	80.59	80.59	6 494.62
2	(2)	Venezuela	29 000 000	19.41	100.00	376.78
Total			149 401 200	100.00		HHI 6 871

URANIUM (U₃O₈)

Rank 2016	Rank 2015	C o u n t r y	Production 2016 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Kazakhstan	29 113	38.89	38.89	1 512.47
2	(2)	Canada	16 666	22.26	61.15	495.65
3	(3)	Australia	7 352	9.82	70.97	96.45
4	(7)	Namibia	4 308	5.75	76.73	33.12
5	(4)	Niger	4 101	5.48	82.21	30.01
6	(5)	Uzbekistan	4 090	5.46	87.67	29.85
7	(6)	Russia	3 543	4.73	92.40	22.40
8	(8)	China	1 906	2.55	94.95	6.48
9	(9)	United States	1 323	1.77	96.72	3.12
10	(10)	Ukraine	1 185	1.58	98.30	2.51
11	(12)	India	454	0.61	98.91	0.37
12	(11)	South Africa	450	0.60	99.51	0.36
13	(13)	Czech Republic	151	0.20	99.71	0.04
14	(14)	Romania	59	0.08	99.79	0.01
15	(**)	Germany	53	0.07	99.86	0.01
16	(15)	Pakistan	53	0.07	99.93	0.01
17	(16)	Brazil	52	0.07	100.00	0.00
Total			74 859	100.00		HHI 2 233

6.6 PRODUCTION OF MINERAL RAW MATERIALS OF INDIVIDUAL COUNTRIES, BY COUNTRIES

AFGHANISTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	2 520	2 500	2 200	2 500	2 000	-20.63	-20.00
Fluorspar	(t)	0	4 700	4 108	2 000	2 000	.	0.00
Gypsum	(t)	65 000	65 000	57 000	57 000	57 000	-12.31	0.00
Salt	(t)	145 303	40 992	87 014	88 183	56 928	-60.82	-35.44
Steam Coal	(t)	1 239 900	1 347 000	1 517 400	1 364 800	1 698 200	36.96	24.43
Nat. Gas (Mio m ³)		160	155	142	146	165	3.13	13.01
Total	(t)	1 580 723	1 584 192	1 781 322	1 631 283	1 948 128		

ALBANIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	156 600	228 900	309 900	284 100	316 200	101.92	11.30
Nickel	(t)	750	2 020	5 350	7 460	4 400	486.67	-41.02
Copper	(t)	5 680	5 920	3 690	2 190	0	-100.00	-100.00
Gypsum	(t)	91 000	126 350	108 733	85 000	132 000	45.05	55.29
Salt	(t)	25 000	30 575	24 700	22 100	15 500	-38.00	-29.86
Lignite	(t)	1 000	0	0	276 000	16 800	1 580.00	-93.91
Nat. Gas (Mio m ³)		16	18	31	34	88	450.00	158.82
Petroleum	(t)	1 030 720	1 206 600	1 368 200	1 279 220	1 055 730	2.43	-17.47
Total	(t)	1 323 550	1 614 765	1 845 373	1 983 270	1 611 030		

ALGERIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	842 400	594 000	492 010	509 800	329 400	-60.90	-35.39
Zinc	(t)			0	50	310	.	520.00
Gold	(kg)	323	140	85	106	102	-68.42	-3.77
Silver	(kg)	53	27	16	20	20	-62.26	0.00
Baryte	(t)	30 587	23 686	56 829	32 020	52 000	70.01	62.40
Bentonite	(t)	26 300	27 670	31 510	34 400	37 000	40.68	7.56
Diatomite	(t)	2 137	2 124	2 426	2 360	2 500	16.99	5.93
Feldspar	(t)	264 000	290 000	230 372	154 500	168 000	-36.36	8.74
Gypsum	(t)	2 000 000	2 100 000	2 130 459	2 207 000	2 200 000	10.00	-0.32

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Kaolin	(t)	100 970	42 504	181 068	51 000	96 000	-4.92	88.24
Phosphates	(t)	425 100	391 000	482 100	438 200	433 500	1.98	-1.07
Salt	(t)	190 000	188 000	192 982	175 500	158 000	-16.84	-9.97
Sulfur	(t)	10 400	8 400	5 800	5 000	6 000	-42.31	20.00
Nat. Gas (Mio m³)		85 195	82 430	83 296	84 583	94 953	11.45	12.26
Petroleum	(t)	66 986 000	64 784 000	68 582 000	67 064 000	68 417 000	2.14	2.02
Total	(t)	139 033 894	134 395 384	139 024 356	138 340 230	147 862 110		

ANGOLA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Diam. (Gem)	(ct)	7 497 896	7 741 527	7 875 803	8 117 048	8 119 320	8.29	0.03
Diam. (Ind)	(ct)	833 100	860 170	875 089	901 894	902 147	8.29	0.03
Gypsum	(t)	121 980	189 240	328 130	127 910	0	-100.00	-100.00
Salt	(t)	45 000	45 000	45 000	47 845	93 000	106.67	94.38
Nat. Gas (Mio m³)		740	910	720	770	1 913	158.51	148.44
Petroleum	(t)	86 878 000	87 308 100	83 022 700	88 701 200	87 896 900	1.17	-0.91
Total	(t)	87 636 981	88 270 342	83 971 832	89 492 957	89 520 302		

ARGENTINA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	332 470	298 190	224 840	206 060	107 280	-67.73	-47.94
Molybdenum	(t)	1 617	1 915	954	869	479	-70.38	-44.88
Aluminium	(t)	413 395	440 176	441 893	428 206	424 871	2.78	-0.78
Cadmium	(t)	37	28	30	39	0	-100.00	-100.00
Copper	(t)	135 700	109 600	102 574	61 811	81 890	-39.65	32.48
Lead	(t)	26 475	28 673	29 911	26 000	28 000	5.76	7.69
Lithium	(t)	5 660	5 700	7 500	7 710	12 255	116.52	58.95
Mercury	(t)	37	28	25	25	25	-32.43	0.00
Zinc	(t)	42 000	47 700	44 000	33 800	26 300	-37.38	-22.19
Gold	(kg)	54 651	52 486	60 170	63 231	56 967	4.24	-9.91
Silver	(kg)	749 594	774 477	905 112	1 079 291	931 707	24.29	-13.67
Baryte	(t)	9 345	25 744	14 365	11 017	12 389	32.57	12.45
Bentonite	(t)	193 795	200 000	200 000	180 000	170 000	-12.28	-5.56
Boron	(t)	525 674	425 140	375 000	300 000	300 000	-42.93	0.00
Diatomite	(t)	278 126	209 000	191 670	200 000	200 000	-28.09	0.00
Feldspar	(t)	273 896	226 435	220 000	220 000	220 000	-19.68	0.00
Fluorspar	(t)	35 874	37 967	35 000	35 000	39 000	8.71	11.43
Gypsum	(t)	1 432 517	1 550 000	1 500 000	1 500 000	1 500 000	4.71	0.00
Kaolin	(t)	66 574	67 000	40 000	49 000	50 000	-24.90	2.04
Perlite	(t)	24 663	24 737	22 680	23 282	24 000	-2.69	3.08

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Salt	(t)	1 843 975	1 652 000	1 500 000	1 500 000	1 600 000	-13.23	6.67
Talc	(t)	23 576	24 000	25 000	25 000	24 000	1.80	-4.00
Vermiculite	(t)	320	0	0	0	0	-100.00	.
Steam Coal	(t)	72 000	65 150	46 300	27 500	19 160	-73.39	-30.33
Nat. Gas (Mio m³)		37 730	35 530	35 450	36 490	38 270	1.43	4.88
Petroleum	(t)	27 426 800	26 881 400	26 492 600	26 508 000	25 487 000	-7.07	-3.85
Total	(t)	63 349 331	60 745 409	59 875 307	60 536 461	60 943 638		

ARMENIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Molybdenum	(t)	5 253	5 723	5 796	5 131	5 771	9.86	12.47
Bismuth	(t)	4	4	2	2	1	-75.00	-50.00
Cadmium	(t)	43	41	43	0	0	-100.00	.
Copper	(t)	38 968	44 797	46 849	51 765	95 080	144.00	83.68
Rhenium	(kg)	293	298	351	104	405	38.23	289.42
Selenium	(t)	17	20	0	1	1	-94.12	0.00
Zinc	(t)	7 371	9 054	8 459	7 111	4 960	-32.71	-30.25
Gold	(kg)	1 941	2 324	2 845	2 805	3 000	54.56	6.95
Silver	(kg)	16 667	18 179	18 374	18 350	14 100	-15.40	-23.16
Bentonite	(t)	7 491	18 456	3 640	9 228	13 956	86.30	51.24
Diatomite	(t)	29 148	19 376	20 439	18 915	25 486	-12.56	34.74
Gypsum	(t)	30 446	28 700	22 317	19 400	14 831	-51.29	-23.55
Perlite	(t)	0	77 784	84 904	57 657	44 820	.	-22.26
Salt	(t)	172 422	135 938	149 398	142 605	68 435	-60.31	-52.01
Sulfur	(t)	42 900	51 000	10 300	10 400	8 500	-80.19	-18.27
Total	(t)	334 082	390 913	352 168	322 236	281 858		

AUSTRALIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	321 952 505	377 760 029	457 409 154	500 993 637	531 075 350	64.95	6.00
Chromium	(t)	138 500	94 200	10 519	0	0	-100.00	.
Cobalt	(t)	5 880	6 855	6 252	5 930	5 183	-11.85	-12.60
Manganese	(t)	2 891 668	2 975 678	3 454 430	3 250 300	2 388 500	-17.40	-26.51
Molybdenum	(t)			28	0	0	.	.
Nickel	(t)	304 152	292 619	266 181	225 227	203 135	-33.21	-9.81
Tantalum	(t)	0	0	0	20	60	.	200.00
Titanium	(t)	1 406 200	1 107 600	997 000	1 053 300	1 070 000	-23.91	1.59
Tungsten	(t)	290	320	477	348	108	-62.76	-68.97
Vanadium	(t)	70	407	0	0	0	-100.00	.
Aluminium	(t)	1 859 726	1 777 427	1 702 984	1 645 960	1 635 241	-12.07	-0.65
Antimony	(t)	2 481	3 275	3 828	4 213	4 285	72.71	1.71

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Bauxite	(t)	76 281 000	81 119 000	78 632 393	80 909 703	83 516 578	9.49	3.22
Copper	(t)	921 390	1 000 999	978 534	995 881	948 135	2.90	-4.79
Lead	(t)	620 598	711 210	727 954	653 488	453 374	-26.95	-30.62
Lithium	(t)	27 120	21 000	22 200	24 140	22 460	-17.18	-6.96
Rare Earths	(t)	3 222	1 268	7 191	10 916	13 872	330.54	27.08
Tin	(t)	6 158	6 472	6 898	7 158	6 635	7.75	-7.31
Zinc	(t)	1 498 938	1 481 135	1 505 968	1 610 004	883 747	-41.04	-45.11
Gold	(kg)	250 441	267 062	274 047	279 190	282 421	12.77	1.16
Palladium	(kg)	565	630	613	425	610	7.96	43.53
Platinum	(kg)	141	156	153	108	152	7.80	40.74
Silver	(kg)	1 726 933	1 839 783	1 846 847	1 430 298	1 418 219	-17.88	-0.84
Baryte	(t)	12 373	13 176	14 676	6 017	7 139	-42.30	18.65
Bentonite	(t)	58 000	90 000	70 000	75 000	59 000	1.72	-21.33
Diam. (Gem)	(ct)	4 498 652	5 626 057	4 551 178	6 644 790	6 839 420	52.03	2.93
Diam. (Ind)	(ct)	4 682 271	5 855 692	4 736 940	6 916 005	7 118 580	52.03	2.93
Diatomite	(t)	20 000	9 238	1 679	4 923	1 033	-94.84	-79.02
Feldspar	(t)	95 934	63 685	46 202	40 777	31 768	-66.89	-22.09
Gypsum	(t)	3 371 945	4 616 650	3 672 100	3 715 200	3 971 920	17.79	6.91
Kaolin	(t)	80 202	207 927	169 904	153 365	156 354	94.95	1.95
Magnesite	(t)	592 800	507 367	590 955	663 212	469 455	-20.81	-29.21
Perlite	(t)	940	1 300	0	0	620	-34.04	.
Phosphates	(t)	547 400	474 790	448 500	236 375	238 494	-56.43	0.90
Salt	(t)	13 263 665	13 503 221	13 573 324	11 903 561	10 915 357	-17.70	-8.30
Sulfur	(t)	860 000	860 000	900 000	900 000	900 000	4.65	0.00
Talc	(t)	83 402	105 000	120 000	115 000	100 000	19.90	-13.04
Vermiculite	(t)	9 256	9 091	0	0	0	-100.00	.
Zircon	(t)	605 000	388 000	752 826	687 326	559 800	-7.47	-18.55
Steam Coal	(t)	215 765 000	236 601 000	247 956 000	256 014 000	250 401 000	16.05	-2.19
Coking Coal	(t)	146 944 000	159 494 200	180 295 000	191 056 000	189 302 000	28.83	-0.92
Lignite	(t)	66 730 000	73 000 000	60 700 000	65 361 000	63 571 000	-4.73	-2.74
Nat. Gas (Mio m³)		60 200	62 480	67 330	76 790	97 330	61.68	26.75
Petroleum	(t)	23 259 800	19 574 100	20 990 900	18 484 300	17 188 300	-26.10	-7.01
Uranium	(t)	8 267	7 538	6 014	6 668	7 352	-11.07	10.26
Total	(t)	928 389 862	1 027 871 887	1 129 906 195	1 202 246 660	1 237 972 958		

AUSTRIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	685 522	743 463	779 736	890 665	888 723	29.64	-0.22
Tungsten	(t)	706	850	819	861	954	35.13	10.80
Feldspar	(t)	32 000	35 000	35 000	35 000	35 000	9.38	0.00
Graphite	(t)	219	200	150	150	150	-31.51	0.00
Gypsum	(t)	791 961	635 299	729 892	715 195	674 346	-14.85	-5.71
Kaolin	(t)	13 497	11 558	14 343	12 894	13 558	0.45	5.15
Magnesite	(t)	778 810	714 422	754 096	702 504	565 892	-27.34	-19.45
Salt	(t)	958 187	1 115 410	1 154 309	974 475	1 034 003	7.91	6.11
Sulfur	(t)	10 329	9 789	8 280	8 502	5 474	-47.00	-35.62
Talc	(t)	134 665	134 814	131 108	122 326	123 040	-8.63	0.58

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Nat. Gas (Mio m³)	1 729	1 359	1 245	1 183	1 253	-27.53	5.92
Oil shales (t)	540	173	203	68	169	-68.70	148.53
Petroleum (t)	917 349	917 148	944 832	905 931	809 189	-11.79	-10.68
Total (t)	5 706 985	5 405 326	5 548 768	5 314 971	5 152 898		

AZERBAIJAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron (t)		87 066	59 388	38 390	53 590	10 710	-87.70	-80.01
Aluminium (t)		54 200	53 900	50 400	53 300	36 800	-32.10	-30.96
Copper (t)		502	327	784	969	1 947	287.85	100.93
Gold (kg)		1 563	1 619	1 875	2 240	2 034	30.13	-9.20
Silver (kg)		3 679	2 049	970	890	5 136	39.60	477.08
Bentonite (t)		36 700	97 700	81 900	56 800	54 500	48.50	-4.05
Gypsum (t)		150 500	249 800	222 700	196 500	155 800	3.52	-20.71
Salt (t)		28 550	32 021	35 156	39 461	63 931	123.93	62.01
Nat. Gas (Mio m³)		17 242	17 895	18 827	19 236	18 718	8.56	-2.69
Petroleum (t)		43 375 000	43 457 000	42 076 000	41 628 300	41 050 400	-5.36	-1.39
Total (t)		57 526 124	58 266 140	57 566 933	57 417 723	56 348 495		

BAHAMAS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt (t)		659 671	956 789	1 495 158	970 393	308 007	-53.31	-68.26
Total (t)		659 671	956 789	1 495 158	970 393	308 007		

BAHRAIN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium (t)		890 217	912 700	931 427	960 643	971 420	9.12	1.12
Sulfur (t)		126 500	131 100	133 650	126 780	123 630	-2.27	-2.48
Nat. Gas (Mio m³)		13 390	14 670	15 400	15 350	15 200	13.52	-0.98
Petroleum (t)		2 261 000	2 384 100	2 428 600	2 518 200	2 422 200	7.13	-3.81
Total (t)		13 989 717	15 163 900	15 813 677	15 885 623	15 677 250		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

BANGLADESH

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt	(t)	1 634 000	1 753 000	1 627 000	1 282 000	1 555 000	-4.83	21.29
Steam Coal	(t)	835 000	854 804	947 125	675 775	1 021 638	22.35	51.18
Nat. Gas (Mio m ³)		21 056	22 670	23 223	25 264	27 558	30.88	9.08
Petroleum	(t)	250 000	264 600	321 000	417 400	559 240	123.70	33.98
Total	(t)	19 563 800	21 008 404	21 473 525	22 586 375	25 182 278		

BARBADOS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nat. Gas (Mio m ³)		23	21	21	20	20	-13.04	0.00
Petroleum	(t)	37 140	34 710	31 960	34 030	34 000	-8.45	-0.09
Total	(t)	55 540	51 510	48 760	50 030	50 000		

BELARUS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Potash	(t)	4 831 000	4 242 700	6 340 000	6 468 000	6 180 100	27.93	-4.45
Salt	(t)	2 176 650	2 600 000	1 800 000	2 050 000	2 300 000	5.67	12.20
Nat. Gas (Mio m ³)		218	228	222	225	215	-1.38	-4.44
Petroleum	(t)	1 660 000	1 645 000	1 645 000	1 645 000	1 645 000	-0.90	0.00
Total	(t)	8 842 050	8 670 100	9 962 600	10 343 000	10 297 100		

BELGIUM

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Arsenic	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Selenium	(t)	200	200	200	200	200	0.00	0.00
Total	(t)	1 200	1 200	1 200	1 200	1 200		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

BENIN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	30	30	30	30	30	0.00	0.00
Salt	(t)	4 800	4 800	4 000	4 000	4 000	-16.67	0.00
Total	(t)	4 800	4 800	4 000	4 000	4 000		

BHUTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	2 400	13 100	12 200	27 650	17 960	648.33	-35.05
Gypsum	(t)	313 173	351 421	414 148	389 365	317 597	1.41	-18.43
Talc	(t)	16 063	9 584	12 601	5 807	2 261	-85.92	-61.06
Steam Coal	(t)	98 731	77 744	121 891	85 164	117 783	19.30	38.30
Total	(t)	430 367	451 849	560 840	507 986	455 601		

BOLIVIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Tantalum	(t)	13	14	7	1	0	-100.00	-100.00
Tungsten	(t)	1 247	1 253	1 251	1 461	1 109	-11.07	-24.09
Antimony	(t)	5 081	5 053	4 186	3 843	2 669	-47.47	-30.55
Arsenic	(t)	103	120	52	38	38	-63.11	0.00
Bismuth	(t)	8	10	11	20	43	437.50	115.00
Copper	(t)	8 653	7 549	10 746	9 479	8 718	0.75	-8.03
Lead	(t)	81 095	82 131	75 572	75 273	89 510	10.38	18.91
Tin	(t)	19 702	19 287	19 791	20 135	17 460	-11.38	-13.29
Zinc	(t)	389 911	407 332	448 970	442 154	486 955	24.89	10.13
Gold	(kg)	27 488	18 127	24 803	13 000	12 811	-53.39	-1.45
Silver	(kg)	1 205 804	1 287 200	1 345 022	1 306 000	1 353 202	12.22	3.61
Baryte	(t)	21 157	30 476	26 240	46 732	16 632	-21.39	-64.41
Bentonite	(t)	747	182	886	1 023	525	-29.72	-48.68
Boron	(t)	127 638	157 338	151 799	148 738	182 685	43.13	22.82
Gypsum	(t)	645	1 223	1 464	650	1 182	83.26	81.85
Salt	(t)	1 905	2 262	2 419	2 216	4 534	138.01	104.60
Nat. Gas (Mio m³)		18 655	21 269	22 385	21 994	21 147	13.36	-3.85
Petroleum	(t)	2 555 700	2 940 200	2 543 100	2 443 200	2 261 100	-11.53	-7.45
Total	(t)	18 138 838	20 670 935	21 195 864	20 791 482	19 992 126		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

BOSNIA-HERZEGOVINA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	1 058 620	1 492 840	1 499 950	1 082 630	893 420	-15.61	-17.48
Manganese	(t)	0	2 330	14 176	3 200	1 000	.	-68.75
Aluminium	(t)	159 660	157 082	131 238	118 253	106 649	-33.20	-9.81
Bauxite	(t)	800 316	657 115	620 308	787 409	738 609	-7.71	-6.20
Lead	(t)	3 330	6 222	5 960	6 210	6 820	104.80	9.82
Zinc	(t)	6 000	8 978	8 600	8 960	9 830	63.83	9.71
Bentonite	(t)	18 000	18 808	80 952	67 261	102 858	471.43	52.92
Gypsum	(t)	73 365	68 550	88 977	58 800	61 231	-16.54	4.13
Kaolin	(t)	149 495	96 563	98 325	252 268	271 502	81.61	7.62
Magnesite	(t)	900	0	0	200	7 300	711.11	3 550.00
Salt	(t)	743 807	727 894	819 327	869 750	966 177	29.90	11.09
Lignite	(t)	12 311 623	10 343 680	11 750 901	12 172 292	13 481 012	9.50	10.75
Total	(t)	15 325 116	13 580 062	15 118 714	15 427 233	16 646 408		

BOTSWANA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Cobalt	(t)	195	248	196	316	281	44.10	-11.08
Nickel	(t)	17 948	22 848	14 958	16 789	16 878	-5.96	0.53
Copper	(t)	35 770	51 300	47 700	22 284	13 120	-63.32	-41.12
Gold	(kg)	1 377	1 206	958	756	833	-39.51	10.19
Palladium	(kg)	2 582	1 337	560	156	0	-100.00	-100.00
Platinum	(kg)	435	218	124	31	0	-100.00	-100.00
Silver	(kg)	8 670	22 597	22 328	2 800	0	-100.00	-100.00
Diam. (Gem)	(ct)	14 433 300	15 885 100	17 260 600	14 576 800	14 623 700	1.32	0.32
Diam. (Ind)	(ct)	6 185 700	6 807 900	7 397 400	6 247 200	6 267 300	1.32	0.32
Salt	(t)	367 749	521 306	515 311	404 295	399 837	8.73	-1.10
Steam Coal	(t)	1 454 724	1 495 653	1 711 555	2 065 778	1 870 939	28.61	-9.43
Total	(t)	1 876 403	2 091 384	2 289 748	2 509 470	2 301 060		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

BRAZIL

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	258 129 700	245 667 800	244 754 400	253 660 900	271 275 900	5.09	6.94
Chromium	(t)	184 275	189 521	244 622	265 200	265 000	43.81	-0.08
Cobalt	(t)	3 122	3 239	3 865	2 771	853	-72.68	-69.22
Manganese	(t)	1 164 000	1 180 000	1 094 000	1 226 458	1 141 684	-1.92	-6.91
Nickel	(t)	89 600	77 400	85 600	89 302	85 600	-4.46	-4.15
Niobium	(t)	82 214	76 899	88 771	84 189	84 000	2.17	-0.22
Tantalum	(t)	118	185	118	120	103	-12.71	-14.17
Titanium	(t)	39 780	44 970	46 445	47 000	48 000	20.66	2.13
Tungsten	(t)	381	494	510	500	400	4.99	-20.00
Vanadium	(t)			1 032	5 810	7 966	.	37.11
Aluminium	(t)	1 436 400	1 304 300	962 000	772 200	792 700	-44.81	2.65
Bauxite	(t)	34 987 800	33 896 100	36 308 000	37 057 000	39 244 200	12.17	5.90
Cadmium	(t)	200	200	200	200	200	0.00	0.00
Copper	(t)	223 141	270 979	301 197	359 463	337 600	51.29	-6.08
Lead	(t)	8 922	8 020	10 978	10 000	9 000	0.87	-10.00
Lithium	(t)	390	416	452	450	650	66.67	44.44
Rare Earths	(t)	206	600	0	880	2 200	967.96	150.00
Tin	(t)	13 667	16 830	25 534	18 824	19 000	39.02	0.93
Zinc	(t)	164 258	152 147	169 766	156 000	157 000	-4.42	0.64
Gold	(kg)	66 773	79 563	81 038	83 127	83 000	24.30	-0.15
Silver	(kg)	20 145	22 427	25 381	25 000	25 000	24.10	0.00
Asbestos	(t)	304 569	290 825	311 227	310 000	177 800	-41.62	-42.65
Baryte	(t)	186 134	34 943	3 389	3 000	12 133	-93.48	304.43
Bentonite	(t)	286 016	305 746	344 611	405 000	405 000	41.60	0.00
Diam. (Gem)	(ct)	16 247	16 225	18 785	10 503	60 560	272.75	476.60
Diam. (Ind)	(ct)	32 987	32 941	38 138	21 323	122 955	272.74	476.63
Diatomite	(t)	3 427	1 947	5 080	5 000	5 000	45.90	0.00
Feldspar	(t)	247 152	294 357	417 771	400 000	400 000	61.84	0.00
Fluorspar	(t)	24 148	27 712	23 849	24 000	24 000	-0.61	0.00
Graphite	(t)	88 110	91 908	87 026	75 073	72 000	-18.28	-4.09
Gypsum	(t)	3 749 860	3 332 991	3 447 012	3 450 000	3 450 000	-8.00	0.00
Kaolin	(t)	2 388 000	2 139 000	2 055 000	1 653 856	1 916 995	-19.72	15.91
Magnesite	(t)	479 304	557 431	550 000	550 000	1 000 000	108.64	81.82
Phosphates	(t)	2 388 000	2 504 000	2 521 000	2 167 000	2 012 500	-15.72	-7.13
Potash	(t)	346 509	310 892	311 021	293 000	300 000	-13.42	2.39
Salt	(t)	7 481 870	7 275 453	7 501 051	7 500 000	7 600 000	1.58	1.33
Sulfur	(t)	519 000	560 000	540 000	530 000	530 000	2.12	0.00
Talc	(t)	459 539	592 844	644 478	700 000	750 000	63.21	7.14
Vermiculite	(t)	51 986	60 379	56 444	70 000	58 000	11.57	-17.14
Zircon	(t)	20 425	24 687	23 659	24 000	24 000	17.50	0.00
Steam Coal	(t)	3 453 590	4 955 596	4 518 466	3 644 350	3 525 735	2.09	-3.25
Lignite	(t)	3 163 144	3 638 734	3 417 779	2 709 305	3 480 217	10.02	28.45
Nat. Gas (Mio m³)		20 845	22 988	24 536	24 862	25 337	21.55	1.91
Petroleum	(t)	107 283 800	105 253 200	116 813 400	125 806 800	130 144 400	21.31	3.45
Uranium	(t)	383	234	67	51	52	-86.42	1.96
Total	(t)	446 129 227	433 533 481	447 318 726	463 967 410	489 629 596		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

BRUNEI

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nat. Gas (Mio m ³)		12 565	12 206	11 850	11 620	11 210	-10.78	-3.53
Petroleum	(t)	7 817 500	6 606 500	6 181 400	6 203 500	5 925 600	-24.20	-4.48
Total	(t)	17 869 500	16 371 300	15 661 400	15 499 500	14 893 600		

BULGARIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	10 792	28 650	25 830	13 470	12 050	11.66	-10.54
Cadmium	(t)	394	382	385	356	245	-37.82	-31.18
Copper	(t)	107 328	115 450	115 540	112 600	111 870	4.23	-0.65
Lead	(t)	14 764	16 940	17 020	18 370	22 040	49.28	19.98
Zinc	(t)	13 411	13 910	13 070	16 390	18 790	40.11	14.64
Gold	(kg)	6 100	7 390	6 810	7 930	7 920	29.84	-0.13
Silver	(kg)	55 100	55 000	13 130	14 000	15 000	-72.78	7.14
Baryte	(t)	0	1 000	20 000	60 000	50 000	.	-16.67
Bentonite	(t)	110 000	0	41 100	61 600	37 100	-66.27	-39.77
Fluorspar	(t)	69 700	82 500	130 800	131 900	4 400	-93.69	-96.66
Gypsum	(t)	113 700	119 100	87 800	108 600	60 900	-46.44	-43.92
Kaolin	(t)	252 100	281 600	321 700	314 900	338 600	34.31	7.53
Salt	(t)	2 100 000	2 000 000	3 300 000	3 100 000	3 300 000	57.14	6.45
Sulfur	(t)	325 000	325 000	325 000	325 000	258 000	-20.62	-20.62
Steam Coal	(t)	7 200	23 400	0	9 600	5 900	-18.06	-38.54
Lignite	(t)	33 340 700	28 631 300	31 435 100	33 773 000	29 294 200	-12.14	-13.26
Nat. Gas (Mio m ³)		390	282	183	85	80	-79.49	-5.88
Petroleum	(t)	22 900	26 900	26 200	23 700	22 600	-1.31	-4.64
Total	(t)	36 800 050	31 891 794	36 005 965	38 137 508	33 600 718		

BURKINA FASO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Lead	(t)	0	1 017	1 880	2 000	2 000	.	0.00
Zinc	(t)	0	32 215	67 680	68 670	77 840	.	13.35
Gold	(kg)	30 169	32 959	36 321	36 540	38 530	27.71	5.45
Phosphates	(t)	650	650	0	0	0	-100.00	.
Total	(t)	680	33 915	69 596	70 707	79 879		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

BURUNDI

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Niobium	(t)	62	11	25	13	8	-87.10	-38.46
Tantalum	(t)	91	16	37	19	11	-87.91	-42.11
Tungsten	(t)	200	39	27	11	77	-61.50	600.00
Tin	(t)	53	56	81	55	46	-13.21	-16.36
Gold	(kg)	2 046	2 823	650	549	396	-80.65	-27.87
Total	(t)	408	125	171	99	142		

CAMBODIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt	(t)	80 000	147 000	270 000	174 000	148 900	86.13	-14.43
Total	(t)	80 000	147 000	270 000	174 000	148 900		

CAMEROON

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	52 000	75 000	93 000	65 000	65 300	25.58	0.46
Gold	(kg)	225	480	517	795	1 000	344.44	25.79
Diam. (Ind)	(ct)	0	2 723	3 718	2 245	994	.	-55.72
Nat. Gas (Mio m³)		0	150	310	370	360	.	-2.70
Petroleum	(t)	3 052 100	3 311 200	3 751 100	4 770 500	4 595 300	50.56	-3.67
Total	(t)	3 104 100	3 506 200	4 092 101	5 131 501	4 948 601		

CANADA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	23 724 100	25 658 400	26 335 400	28 194 100	25 941 900	9.35	-7.99
Cobalt	(t)	6 676	7 168	6 574	6 904	6 969	4.39	0.94
Molybdenum	(t)	8 936	7 956	9 358	2 505	2 835	-68.27	13.17
Nickel	(t)	211 700	227 743	228 867	234 519	235 707	11.34	0.51
Niobium	(t)	4 705	4 916	5 774	5 385	6 099	29.63	13.26
Tantalum	(t)	0	40	0	0	0	.	.
Titanium	(t)	1 000 000	832 000	771 000	750 000	700 000	-30.00	-6.67
Tungsten	(t)	2 025	2 392	2 147	1 815	0	-100.00	-100.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Aluminium	(t)	2 780 556	2 967 364	2 858 237	2 880 035	3 208 888	15.40	11.42
Antimony	(t)	63	177	4	1	0	-100.00	-100.00
Bismuth	(t)	110	35	4	2	2	-98.18	0.00
Cadmium	(t)	1 286	1 313	1 187	1 159	2 305	79.24	98.88
Copper	(t)	580 082	652 595	672 729	714 647	707 605	21.98	-0.99
Lead	(t)	62 014	20 678	3 617	3 809	12 658	-79.59	232.32
Selenium	(t)	145	138	142	156	176	21.38	12.82
Tellurium	(t)	10	12	8	10	18	80.00	80.00
Zinc	(t)	641 100	426 545	352 125	289 584	321 757	-49.81	11.11
Gold	(kg)	107 486	133 636	152 460	162 504	165 034	53.54	1.56
Palladium	(kg)	15 520	16 350	22 000	22 600	21 200	36.60	-6.19
Platinum	(kg)	6 570	8 000	8 700	10 000	9 300	41.55	-7.00
Rhodium	(kg)	400	470	550	530	500	25.00	-5.66
Silver	(kg)	685 255	640 362	495 403	383 807	404 666	-40.95	5.43
Baryte	(t)	22 000	22 000	22 000	30 000	30 000	36.36	0.00
Diam. (Gem)	(ct)	10 529 000	10 599 660	12 011 619	11 677 471	11 996 074	13.93	2.73
Graphite	(t)	25 000	30 000	30 000	30 000	30 000	20.00	0.00
Gypsum	(t)	2 550 000	2 654 000	1 792 709	1 726 216	1 682 445	-34.02	-2.54
Magnesite	(t)	150 000	150 000	150 000	150 000	150 000	0.00	0.00
Potash	(t)	8 976 000	10 196 090	10 817 955	11 461 530	10 768 369	19.97	-6.05
Salt	(t)	10 852 635	12 209 108	14 161 562	14 286 373	10 290 332	-5.18	-27.97
Sulfur	(t)	6 259 000	6 301 000	5 842 000	5 745 000	5 317 000	-15.05	-7.45
Talc	(t)	130 000	175 000	90 000	175 000	202 000	55.38	15.43
Steam Coal	(t)	25 914 000	25 876 000	28 966 000	26 959 000	26 039 000	0.48	-3.41
Coking Coal	(t)	31 086 000	34 063 000	32 500 000	26 547 000	25 960 000	-16.49	-2.21
Lignite	(t)	9 496 000	8 969 000	8 570 000	8 425 000	8 979 000	-5.44	6.58
Nat. Gas (Mio m³)		144 440	145 395	151 351	154 278	157 179	8.82	1.88
Oilsands	(t)	88 840 500	96 561 400	107 547 300	117 897 700	120 401 200	35.53	2.12
Petroleum	(t)	162 449 900	174 090 900	187 900 100	192 913 900	193 614 400	19.18	0.36
Uranium	(t)	11 226	11 003	11 533	15 659	16 666	48.46	6.43

Total (t) 402 498 087 421 873 373 443 182 513 444 972 292 439 969 934

*as part of petroleum

CAPE VERDE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Total	(t)	1 000	1 000	1 000	1 000	1 000		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

CENTRAL AFRICAN REPUBLIC

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	38	11	7	15	33	-13.16	120.00
Diam. (Gem)	(ct)	292 734	95 120	34 000	34 000	9 973	-96.59	-70.67
Diam. (Ind)	(ct)	73 183	23 780	8 500	8 500	2 493	-96.59	-70.67
Total	(t)	0	0	0	0	0		

CHAD

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Petroleum	(t)	5 478 000	4 830 600	4 980 000	5 976 000	5 478 000	0.00	-8.33
Total	(t)	5 478 000	4 830 600	4 980 000	5 976 000	5 478 000		

CHILE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	9 429 000	9 088 000	9 427 640	9 147 839	9 008 873	-4.46	-1.52
Molybdenum	(t)	35 090	38 715	48 770	52 579	55 647	58.58	5.84
Copper	(t)	5 433 900	5 776 000	5 761 100	5 772 100	5 552 600	2.18	-3.80
Lead	(t)	410	1 829	2 678	2 979	1 110	170.73	-62.74
Lithium	(t)	28 490	24 130	24 820	22 500	31 240	9.65	38.84
Mercury	(t)	49	19	20	14	2	-95.92	-85.71
Rhenium	(kg)	25 038	17 364	18 057	22 535	22 542	-9.97	0.03
Selenium	(t)	70	41	0	0	0	-100.00	.
Zinc	(t)	26 762	29 759	45 094	48 071	42 870	60.19	-10.82
Gold	(kg)	49 936	51 309	46 031	42 501	46 333	-7.22	9.02
Silver	(kg)	1 194 521	1 173 845	1 571 788	1 504 271	1 501 436	25.69	-0.19
Bentonite	(t)	893	3 313	1 083	1 434	1 288	44.23	-10.18
Boron	(t)	449 572	582 074	496 533	517 584	558 854	24.31	7.97
Diatomite	(t)	23 021	27 092	31 000	26 186	26 937	17.01	2.87
Feldspar	(t)	6 399	3 874	4 233	6 577	6 352	-0.73	-3.42
Gypsum	(t)	799 064	1 015 158	843 490	860 075	934 033	16.89	8.60
Kaolin	(t)	60 429	60 000	60 000	60 000	60 000	-0.71	0.00
Perlite	(t)		4 800	800	3 000	5 500	.	83.33
Phosphates	(t)	4 370	4 190	6 400	5 470	1 740	-60.18	-68.19
Potash	(t)	1 052 500	1 193 390	1 167 980	1 179 560	1 303 840	23.88	10.54
Salt	(t)	8 057 130	6 576 960	10 553 440	11 831 116	8 139 914	1.03	-31.20
Sulfur	(t)	1 714 100	1 770 600	1 842 700	1 868 900	1 866 500	8.89	-0.13
Talc	(t)	730	0	0	0	0	-100.00	.

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	711 714	2 902 444	4 168 185	3 161 726	2 525 171	254.80	-20.13
Nat. Gas (Mio m³)		1 207	893	907	1 044	1 175	-2.65	12.55
Petroleum	(t)	324 401	361 290	357 540	257 100	215 080	-33.70	-16.34
Total	(t)	29 124 964	30 179 320	35 570 742	35 661 580	31 279 121		

CHINA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	353 602 000	391 773 000	404 379 000	371 250 000	345 841 000	-2.19	-6.84
Chromium	(t)	59 000	50 400	14 400	17 600	12 200	-79.32	-30.68
Cobalt	(t)	7 498	8 580	9 619	10 093	10 500	40.04	4.03
Manganese	(t)	3 520 000	3 730 000	3 310 000	2 484 000	2 150 000	-38.92	-13.45
Molybdenum	(t)	120 580	124 470	131 500	135 150	129 150	7.11	-4.44
Nickel	(t)	93 300	93 200	101 100	100 800	90 000	-3.54	-10.71
Niobium	(t)	14	15	20	30	40	185.71	33.33
Tantalum	(t)	66	60	75	110	120	81.82	9.09
Titanium	(t)	800 000	1 020 000	1 118 700	1 067 200	1 196 000	49.50	12.07
Tungsten	(t)	67 600	71 400	67 700	72 200	70 600	4.44	-2.22
Vanadium	(t)	37 000	44 800	44 800	42 000	45 000	21.62	7.14
Aluminium	(t)	23 534 000	26 534 000	28 316 700	31 410 000	31 873 000	35.43	1.47
Antimony	(t)	135 600	120 937	121 400	111 400	108 000	-20.35	-3.05
Arsenic	(t)	26 000	25 000	25 000	25 000	25 000	-3.85	0.00
Bauxite	(t)	44 052 300	50 339 380	59 212 400	65 000 000	65 000 000	47.55	0.00
Bismuth	(t)	6 000	7 500	7 750	7 250	7 100	18.33	-2.07
Cadmium	(t)	7 265	7 496	8 201	8 162	8 100	11.49	-0.76
Copper	(t)	1 576 800	1 715 200	1 781 000	1 706 400	1 851 000	17.39	8.47
Gallium	(t)	50	128	262	254	171	242.00	-32.68
Germanium	(t)	84	89	95	114	110	30.95	-3.51
Lead	(t)	2 613 200	2 696 500	2 608 600	2 339 000	2 227 500	-14.76	-4.77
Lithium	(t)	6 870	8 600	10 000	9 500	7 500	9.17	-21.05
Mercury	(t)	1 347	1 613	2 260	2 800	3 483	158.57	24.39
Rare Earths	(t)	95 000	93 800	95 000	105 000	105 000	10.53	0.00
Rhenium	(kg)	2 200	2 300	2 300	2 400	2 400	9.09	0.00
Selenium	(t)	700	1 000	720	729	772	10.29	5.90
Tin	(t)	115 900	149 000	157 980	135 000	97 000	-16.31	-28.15
Zinc	(t)	4 859 100	5 187 700	5 118 400	4 748 000	4 635 000	-4.61	-2.38
Gold	(kg)	403 060	428 160	451 799	450 053	453 500	12.51	0.77
Silver	(kg)	3 639 110	3 670 213	3 499 144	3 421 385	3 496 033	-3.93	2.18
Asbestos	(t)	420 000	420 000	400 000	250 000	203 000	-51.67	-18.80
Baryte	(t)	4 400 000	4 000 000	4 100 000	2 984 000	3 100 000	-29.55	3.89
Bentonite	(t)	3 500 000	3 610 000	3 600 000	3 650 000	3 600 000	2.86	-1.37
Boron	(t)	160 000	165 000	165 000	160 000	160 000	0.00	0.00
Diam. (Gem)	(ct)	1 855	1 050	0	0	127	-93.15	.
Diatomite	(t)	420 000	430 000	430 000	420 000	400 000	-4.76	-4.76
Feldspar	(t)	2 100 000	2 220 000	2 300 000	2 350 000	2 400 000	14.29	2.13
Fluorspar	(t)	4 200 000	4 000 000	4 300 000	3 820 000	4 200 000	0.00	9.95
Graphite	(t)	820 000	750 000	780 000	780 000	780 000	-4.88	0.00
Gypsum	(t)	38 000 000	38 000 000	40 000 000	45 000 000	50 000 000	31.58	11.11
Kaolin	(t)	6 250 000	6 550 000	6 850 000	7 030 000	7 240 000	15.84	2.99
Magnesite	(t)	16 000 000	17 000 000	18 430 000	17 440 000	16 840 000	5.25	-3.44

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Phosphates	(t)	28 588 800	32 553 000	36 131 400	42 611 700	43 319 400	51.53	1.66
Potash	(t)	3 900 000	4 300 000	4 400 000	5 714 000	5 783 000	48.28	1.21
Salt	(t)	69 117 800	64 603 000	64 338 000	59 750 000	63 095 000	-8.71	5.60
Sulfur	(t)	9 900 000	10 500 000	12 000 000	10 000 000	9 150 000	-7.58	-8.50
Talc	(t)	2 200 000	2 200 000	2 200 000	2 200 000	2 000 000	-9.09	-9.09
Vermiculite	(t)	90 000	50 000	50 000	50 000	50 000	-44.44	0.00
Zircon	(t)	150 000	150 000	140 000	140 000	100 000	-33.33	-28.57
Steam Coal	(t)	2 950 106 000	2 984 054 000	2 847 246 000	2 812 582 000	2 491 793 000	-15.54	-11.41
Coking Coal	(t)	555 695 000	600 694 000	619 764 000	593 047 000	591 998 000	6.53	-0.18
Nat. Gas (Mio m³)		107 150	120 858	130 157	134 610	136 830	27.70	1.65
Petroleum	(t)	207 478 000	209 919 000	211 429 000	214 555 800	199 685 000	-3.76	-6.93
Uranium	(t)	1 769	1 769	1 769	1 906	1 906	7.74	0.00
Total	(t)	4 424 558 687	4 566 664 137	4 489 827 404	4 413 016 071	4 060 859 604		

CHRISTMAS ISLAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Phosphates	(t)	154 560	132 250	154 330	177 100	148 120	-4.17	-16.36
Total	(t)	154 560	132 250	154 330	177 100	148 120		

COLOMBIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	364 150	319 520	304 280	405 780	322 060	-11.56	-20.63
Nickel	(t)	51 595	49 320	41 222	36 671	37 092	-28.11	1.15
Copper	(t)	750	640	4 118	5 463	8 493	1 032.40	55.46
Gold	(kg)	66 178	55 745	57 015	59 202	61 805	-6.61	4.40
Platinum	(kg)	1 460	1 836	1 135	861	917	-37.19	6.50
Silver	(kg)	19 368	13 968	11 498	10 155	10 427	-46.16	2.68
Baryte	(t)	2 000	1 000	2 000	0	0	-100.00	.
Feldspar	(t)	60 000	46 000	46 000	12 234	15 107	-74.82	23.48
Gypsum	(t)	200 000	200 000	300 000	445 855	331 245	65.62	-25.71
Phosphates	(t)	18 750	19 000	20 000	22 630	10 720	-42.83	-52.63
Salt	(t)	520 268	432 410	445 840	417 438	564 194	8.44	35.16
Sulfur	(t)	63 790	52 470	48 513	63 236	63 500	-0.45	0.42
Steam Coal	(t)	84 118 000	80 600 000	83 468 235	80 716 510	86 382 000	2.69	7.02
Coking Coal	(t)	4 906 000	4 893 000	5 104 123	4 823 870	4 130 000	-15.82	-14.38
Nat. Gas (Mio m³)		11 975	12 970	12 830	11 860	9 900	-17.33	-16.53
Petroleum	(t)	47 126 200	49 895 120	49 308 600	50 058 800	44 226 200	-6.15	-11.65
Total	(t)	147 011 589	146 884 552	149 357 000	146 496 557	144 010 684		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

CONGO, D.R.

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Cobalt	(t)	86 433	76 593	76 475	84 400	69 038	-20.13	-18.20
Niobium	(t)	193	230	376	694	797	312.95	14.84
Tantalum	(t)	205	244	399	736	845	312.20	14.81
Tungsten	(t)	101	59	13	55	79	-21.78	43.64
Copper	(t)	619 942	914 631	1 065 744	1 069 039	1 035 631	67.05	-3.13
Lead	(t)	730	621	764	653	101	-86.16	-84.53
Tin	(t)	10 440	4 162	4 012	4 567	6 503	-37.71	42.39
Zinc	(t)	11 623	12 114	12 737	12 675	12 587	8.29	-0.69
Gold	(kg)	2 813	6 149	23 937	31 878	30 664	990.08	-3.81
Silver	(kg)	12 342	60 431	6 485	2 412	835	-93.23	-65.38
Diam. (Gem)	(ct)	4 304 853	3 559 800	3 331 600	3 150 700	3 111 890	-27.71	-1.23
Diam. (Ind)	(ct)	17 219 413	14 239 200	13 326 400	12 602 790	12 447 557	-27.71	-1.23
Petroleum	(t)	1 165 600	1 139 120	1 140 580	1 124 940	1 068 970	-8.29	-4.98
Total	(t)	1 895 286	2 147 844	2 301 134	2 297 797	2 194 586		

CONGO, REP.

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	150	150	150	150	100	-33.33	-33.33
Diam. (Ind)	(ct)	51 588	56 495	53 163	40 057	12 110	-76.53	-69.77
Petroleum	(t)	13 444 200	12 057 800	12 483 600	12 139 600	11 553 600	-14.06	-4.83
Total	(t)	13 444 200	12 057 800	12 483 600	12 139 600	11 553 600		

COSTA RICA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	500	2 000	1 050	950	1 000	100.00	5.26
Diatomite	(t)	4 000	19 037	10 851	20 537	20 500	412.50	-0.18
Total	(t)	4 001	19 039	10 852	20 538	20 501		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

COTE D'IVOIRE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	112 500	110 480	162 900	118 430	93 150	-17.20	-21.35
Gold	(kg)	11 232	12 961	17 381	20 245	20 596	83.37	1.73
Silver	(kg)	572	647	600	576	549	-4.02	-4.69
Diam. (Gem)	(ct)	0	0	859	11 940	16 188	.	35.58
Diam. (Ind)	(ct)	0	0	215	2 985	4 047	.	35.58
Nat. Gas	(Mio m³)	1 755	2 104	2 109	2 177	2 395	36.47	10.01
Petroleum	(t)	1 469 100	1 246 700	941 400	1 464 300	2 104 100	43.22	43.69
Total	(t)	2 985 612	3 040 394	2 791 518	3 324 351	4 113 272		

CROATIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	5 690	8 220	9 146	11 897	9 780	71.88	-17.79
Gypsum	(t)	126 580	143 180	164 464	126 470	150 430	18.84	18.95
Salt	(t)	17 642	15 700	0	111 978	112 000	534.85	0.02
Nat. Gas	(Mio m³)	2 086	1 963	1 824	1 850	1 680	-19.46	-9.19
Petroleum	(t)	593 400	573 100	575 960	657 550	684 000	15.27	4.02
Total	(t)	2 412 112	2 310 600	2 208 770	2 387 895	2 300 210		

CUBA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Cobalt	(t)	3 792	3 319	3 210	3 734	3 694	-2.58	-1.07
Nickel	(t)	64 600	53 000	50 400	52 700	51 000	-21.05	-3.23
Bentonite	(t)	668	335	700	500	389	-41.77	-22.20
Feldspar	(t)	3 800	3 200	3 600	3 300	3 900	2.63	18.18
Gypsum	(t)	131 000	87 100	97 800	90 900	73 900	-43.59	-18.70
Kaolin	(t)	4 000	3 600	1 700	1 500	2 500	-37.50	66.67
Salt	(t)	215 900	222 400	243 300	284 900	248 000	14.87	-12.95
Nat. Gas	(Mio m³)	1 035	1 066	1 200	1 245	1 185	14.49	-4.82
Petroleum	(t)	2 998 900	2 897 100	2 905 300	2 822 000	2 539 800	-15.31	-10.00
Total	(t)	4 250 660	4 122 854	4 266 010	4 255 534	3 871 183		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

CYPRUS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Copper	(t)	4 328	3 361	3 088	2 121	1 754	-59.47	-17.30
Bentonite	(t)	160 180	158 386	140 174	127 036	117 184	-26.84	-7.76
Gypsum	(t)	327 800	315 000	347 600	471 885	682 024	108.06	44.53
Total	(t)	492 308	476 747	490 862	601 042	800 962		

CZECH REPUBLIC

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bentonite	(t)	221 000	226 000	301 000	369 000	374 000	69.23	1.36
Diatomite	(t)	43 000	49 000	34 000	15 000	26 000	-39.53	73.33
Feldspar	(t)	445 000	411 000	422 000	433 000	454 000	2.02	4.85
Gypsum	(t)	14 000	11 000	11 000	11 000	10 000	-28.57	-9.09
Kaolin	(t)	3 318 000	3 108 000	3 281 000	3 454 000	3 540 000	6.69	2.49
Steam Coal	(t)	6 031 730	4 042 400	3 930 280	3 884 180	3 095 300	-48.68	-20.31
Coking Coal	(t)	4 764 270	4 567 610	4 410 720	3 755 820	2 978 700	-37.48	-20.69
Lignite	(t)	43 710 000	40 585 000	38 348 000	38 251 000	38 646 000	-11.59	1.03
Nat. Gas (Mio m³)		204	207	198	200	169	-17.16	-15.50
Petroleum	(t)	150 000	152 000	148 000	126 000	116 000	-22.67	-7.94
Uranium	(t)	262	274	195	158	151	-42.37	-4.43
Total	(t)	58 860 462	53 317 884	51 044 595	50 459 158	49 375 351		

DENMARK

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bentonite	(t)	30 330	56 355	66 388	54 272	66 278	118.52	22.12
Diatomite	(t)	110 625	128 100	118 800	127 500	114 400	3.41	-10.27
Salt	(t)	600 000	600 000	600 000	600 000	600 000	0.00	0.00
Sulfur	(t)	3 925	3 599	4 435	93 024	6 144	56.54	-93.40
Nat. Gas (Mio m³)		5 653	4 652	4 504	4 520	4 460	-21.10	-1.33
Petroleum	(t)	10 000 220	8 697 319	8 131 039	7 689 812	6 924 112	-30.76	-9.96
Total	(t)	15 267 500	13 206 973	12 523 862	12 180 608	11 278 934		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DOMINICAN REPUBLIC

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nickel	(t)	15 186	9 355	0	0	12 410	-18.28	.
Bauxite	(t)	10 522	929 576	1 749 308	1 724 162	281 960	2 579.72	-83.65
Copper	(t)	11 737	10 379	9 262	7 324	9 836	-16.20	34.30
Zinc	(t)			0	4 655	3 685	.	-20.84
Gold	(kg)	4 106	26 084	35 402	30 454	38 131	828.67	25.21
Silver	(kg)	27 296	78 522	129 706	91 928	121 585	345.43	32.26
Gypsum	(t)	316 980	233 340	363 240	350 700	350 000	10.42	-0.20
Salt	(t)	18 170	7 690	23 670	25 890	26 000	43.09	0.42
Total	(t)	372 626	1 190 445	2 145 645	2 112 853	684 051		

ECUADOR

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Antimony	(t)		0	15	40	15	.	-62.50
Copper	(t)	2 500	2 600	3 200	2 500	3 000	20.00	20.00
Gold	(kg)	5 139	8 676	7 322	7 723	6 761	31.56	-12.46
Silver	(kg)	2 934	1 198	577	2 521	934	-68.17	-62.95
Feldspar	(t)	152 590	210 142	183 259	253 253	148 506	-2.68	-41.36
Kaolin	(t)	42 564	100 195	40 236	64 486	4 110	-90.34	-93.63
Nat. Gas (Mio m³)		517	515	578	497	530	2.51	6.64
Petroleum	(t)	25 141 000	26 205 000	27 699 000	27 038 000	27 377 000	8.89	1.25
Total	(t)	25 752 262	26 929 947	28 388 118	27 755 890	27 956 639		

EGYPT

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	1 768 500	192 000	639 900	763 700	765 000	-56.74	0.17
Manganese	(t)	25 000	12 500	12 000	12 000	5 000	-80.00	-58.33
Aluminium	(t)	393 700	325 300	304 200	338 000	314 600	-20.09	-6.92
Tin	(t)	16	111	48	0	0	-100.00	.
Gold	(kg)	8 175	11 502	11 734	13 657	17 139	109.65	25.50
Baryte	(t)	4 000	3 800	4 000	4 000	4 000	0.00	0.00
Bentonite	(t)	17 709	4 600	2 000	3 615	3 600	-79.67	-0.41

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Feldspar	(t)	400 000	232 660	400 000	300 000	300 000	-25.00	0.00
Fluorspar	(t)	7 700	850	900	900	0	-100.00	-100.00
Gypsum	(t)	966 250	457 602	940 615	872 141	850 000	-12.03	-2.54
Kaolin	(t)	300 000	300 000	300 000	300 000	300 000	0.00	0.00
Phosphates	(t)	712 500	1 788 700	1 305 300	1 401 000	1 595 000	123.86	13.85
Salt	(t)	2 809 000	2 802 000	2 194 000	1 543 000	1 500 000	-46.60	-2.79
Sulfur	(t)	80 000	80 000	80 000	80 000	80 000	0.00	0.00
Talc	(t)	21 516	63 358	20 000	24 360	30 000	39.43	23.15
Vermiculite	(t)	2 093	2 750	2 700	3 000	3 000	43.33	0.00
Nat. Gas (Mio m³)		60 880	56 070	48 790	44 250	41 820	-31.31	-5.49
Petroleum	(t)	34 730 000	34 361 000	35 140 200	35 431 000	33 835 000	-2.58	-4.50
Total	(t)	90 941 992	85 483 243	80 377 875	76 476 730	73 041 217		

EL SALVADOR

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt	(t)	103 100	100 000	100 000	100 000	100 000	-3.01	0.00
Total	(t)	103 100	100 000	100 000	100 000	100 000		

EQUATORIAL GUINEA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Petroleum	(t)	13 546 000	13 297 000	13 994 000	14 392 000	13 944 000	2.94	-3.11
Total	(t)	13 546 000	13 297 000	13 994 000	14 392 000	13 944 000		

ERITREA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Copper	(t)	0	21 779	88 900	61 600	25 300	.	-58.93
Zinc	(t)				0	40 900	.	.
Gold	(kg)	9 735	2 862	840	753	333	-96.58	-55.78
Silver	(kg)	29 922	15 799	47 402	38 910	13 219	-55.82	-66.03
Gypsum	(t)	800	1 000	1 000	1 000	1 000	25.00	0.00
Kaolin	(t)	200	200	200	200	200	0.00	0.00
Salt	(t)	28 000	28 000	28 000	28 000	28 000	0.00	0.00
Total	(t)	29 040	50 998	118 148	90 840	95 413		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

ESTONIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Oil shales	(t)	18 796 000	20 511 000	20 995 000	19 616 000	15 857 700	-15.63	-19.16
Total	(t)	18 796 000	20 511 000	20 995 000	19 616 000	15 857 700		

ETHIOPIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Niobium	(t)	32	14	25	20	28	-12.50	40.00
Tantalum	(t)	118	29	90	75	101	-14.41	34.67
Gold	(kg)	12 200	13 050	10 340	9 370	6 800	-44.26	-27.43
Silver	(kg)	2 400	1 449	1 000	990	880	-63.33	-11.11
Diatomite	(t)	4 000	4 000	4 000	4 000	4 000	0.00	0.00
Gypsum	(t)	46 000	42 452	43 000	45 000	45 000	-2.17	0.00
Kaolin	(t)	4 000	3 534	3 500	3 500	3 500	-12.50	0.00
Salt	(t)	320 000	318 402	320 000	320 000	320 000	0.00	0.00
Total	(t)	374 164	368 445	370 626	372 605	372 637		

FIJI

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	350 000	461 000	496 616	172 336	58 050	-83.41	-66.32
Gold	(kg)	1 439	1 218	1 196	1 290	1 500	4.24	16.28
Silver	(kg)	342	462	361	354	354	3.51	0.00
Total	(t)	350 001	461 001	496 617	172 337	58 051		

FINLAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	229 000	434 000	441 300	457 100	469 140	104.86	2.63
Cobalt	(t)	1 381	2 061	2 104	2 119	2 308	67.13	8.92
Nickel	(t)	19 073	18 560	19 281	9 383	20 654	8.29	120.12
Copper	(t)	25 445	38 763	42 810	41 805	47 488	86.63	13.59
Germanium	(t)	16	17	17	13	0	-100.00	-100.00
Selenium	(t)	93	72	94	93	118	26.88	26.88
Zinc	(t)	52 265	41 124	46 063	25 332	45 852	-12.27	81.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Gold	(kg)	9 100	8 660	8 085	8 342	8 865	-2.58	6.27
Palladium	(kg)	379	766	808	784	901	137.73	14.92
Platinum	(kg)	429	946	1 060	992	1 178	174.59	18.75
Silver	(kg)	10 479	14 226	12 830	13 051	16 348	56.01	25.26
Feldspar	(t)	43 124	47 636	46 233	38 026	18 549	-56.99	-51.22
Magnesite	(t)		0	12 276	22 390	54 227	.	142.19
Phosphates	(t)	308 900	315 800	340 640	344 360	338 230	9.49	-1.78
Sulfur	(t)	830 000	828 000	845 000	847 000	781 400	-5.86	-7.74
Talc	(t)	396 332	361 840	380 821	332 174	345 739	-12.77	4.08
Total	(t)	1 905 649	2 087 898	2 176 662	2 119 818	2 123 732		

FRANCE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	349 000	343 000	381 000	415 000	424 640	21.67	2.32
Bauxite	(t)	90 000	100 000	71 100	70 000	70 000	-22.22	0.00
Bentonite	(t)	28 000	23 111	11 607	36 403	42 567	52.03	16.93
Diatomite	(t)	85 000	85 000	90 000	90 000	90 000	5.88	0.00
Feldspar	(t)	600 000	550 000	550 000	550 000	550 000	-8.33	0.00
Gypsum	(t)	3 685 000	3 455 000	3 279 000	1 807 978	1 734 975	-52.92	-4.04
Kaolin	(t)	308 000	300 000	310 000	275 150	263 993	-14.29	-4.05
Salt	(t)	6 850 000	6 300 000	6 932 600	6 754 200	6 750 000	-1.46	-0.06
Sulfur	(t)	500 000	400 000	400 000	380 000	380 000	-24.00	0.00
Talc	(t)	400 000	400 000	450 000	450 000	450 000	12.50	0.00
Steam Coal	(t)	290 000	313 000	300 000	0	0	-100.00	.
Nat. Gas (Mio m³)		530	340	20	30	40	-92.45	33.33
Oil shales	(t)	2 000	2 000	2 000	2 000	2 000	0.00	0.00
Petroleum	(t)	806 500	793 000	766 000	835 000	816 000	1.18	-2.28
Uranium	(t)	4	0	4	2	0	-100.00	-100.00
Total	(t)	14 417 504	13 336 111	13 559 311	11 689 733	11 606 175		

FRENCH GUIANA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	1 147	1 220	1 689	1 460	1 600	39.49	9.59
Total	(t)	1	1	2	1	2		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

GABON

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	1 609 300	1 955 300	1 872 100	1 973 000	1 658 500	3.06	-15.94
Gold	(kg)	683	1 192	1 078	1 472	1 020	49.34	-30.71
Nat. Gas (Mio m³)		370	300	330	466	530	43.24	13.73
Petroleum	(t)	11 600 000	11 010 000	10 980 000	11 920 000	11 480 000	-1.03	-3.69
Total	(t)	13 505 301	13 205 301	13 116 101	14 265 801	13 562 501		

GEORGIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	90 000	88 000	83 600	66 000	48 400	-46.22	-26.67
Copper	(t)	6 820	7 800	13 100	11 700	12 100	77.42	3.42
Gold	(kg)	3 100	4 300	2 300	3 073	3 621	16.81	17.83
Steam Coal	(t)	444 284	397 000	299 300	305 900	296 500	-33.26	-3.07
Nat. Gas (Mio m³)		6	9	10	11	7	16.67	-36.36
Petroleum	(t)	51 100	51 017	42 600	40 200	38 600	-24.46	-3.98
Total	(t)	597 007	551 021	446 602	432 603	401 204		

GERMANY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	46 990	59 900	66 900	71 900	74 500	58.54	3.62
Aluminium	(t)	410 500	492 368	530 700	541 400	546 800	33.20	1.00
Cadmium	(t)	310	430	570	370	652	110.32	76.22
Gallium	(t)		38	16	11	4	.	-63.64
Selenium	(t)	650	700	700	660	700	7.69	6.06
Baryte	(t)	52 030	45 446	87 575	68 297	49 373	-5.11	-27.71
Bentonite	(t)	366 220	358 844	394 657	392 831	393 000	7.31	0.04
Feldspar	(t)	5 320 977	5 399 644	5 846 646	4 649 326	4 650 000	-12.61	0.01
Fluorspar	(t)	54 202	48 744	58 100	57 741	52 552	-3.04	-8.99
Graphite	(t)	109	269	517	398	502	360.55	26.13
Gypsum	(t)	2 653 906	2 417 125	2 699 775	2 574 312	3 970 000	49.59	54.22
Kaolin	(t)	4 398 796	4 348 562	4 275 422	3 733 714	4 740 000	7.76	26.95
Potash	(t)	3 149 386	3 075 201	3 126 913	3 056 528	2 694 126	-14.46	-11.86
Salt	(t)	14 646 485	17 389 096	13 330 692	13 957 574	14 335 123	-2.13	2.70
Sulfur	(t)	798 257	754 540	708 146	627 797	577 684	-27.63	-7.98

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	4 878 800	3 209 700	3 224 800	2 626 600	1 807 100	-62.96	-31.20
Coking Coal	(t)	5 891 200	4 356 700	4 415 100	3 596 100	2 041 900	-65.34	-43.22
Lignite	(t)	185 432 000	182 995 000	178 155 000	178 065 000	171 546 500	-7.49	-3.66
Nat. Gas (Mio m³)		11 706	10 678	10 060	9 323	8 608	-26.47	-7.67
Oil shales	(t)	479 825	441 580	506 693	468 470	492 777	2.70	5.19
Petroleum	(t)	2 621 352	2 638 379	2 429 789	2 412 643	2 355 028	-10.16	-2.39
Uranium	(t)	59	32	39	0	53	-10.17	.
Total	(t)	240 566 854	236 574 698	227 906 750	224 360 072	217 214 774		

GHANA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	519 830	701 110	473 720	451 020	706 390	35.89	56.62
Aluminium	(t)	38 000	36 600	38 100	33 800	33 010	-13.13	-2.34
Bauxite	(t)	752 771	826 994	798 114	1 014 605	1 143 676	51.93	12.72
Gold	(kg)	98 489	99 303	106 771	96 926	128 502	30.47	32.58
Silver	(kg)	4 000	4 000	4 000	4 000	3 100	-22.50	-22.50
Diam. (Gem)	(ct)	172 094	127 259	192 896	139 350	113 224	-34.21	-18.75
Diam. (Ind)	(ct)	43 024	31 815	48 224	34 838	28 306	-34.21	-18.75
Salt	(t)	250 000	250 000	250 000	250 000	250 000	0.00	0.00
Nat. Gas (Mio m³)			0	50	570	530	.	-7.02
Petroleum	(t)	4 133 800	5 266 500	5 328 400	5 351 200	4 614 000	11.62	-13.78
Total	(t)	5 694 503	7 081 307	6 928 445	7 556 726	7 171 208		

GREECE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	576	0	0	0	0	-100.00	.
Nickel	(t)	20 310	19 990	21 440	21 060	22 030	8.47	4.61
Aluminium	(t)	165 579	169 457	173 164	179 420	181 680	9.72	1.26
Bauxite	(t)	1 815 328	1 844 000	1 872 710	1 831 660	1 847 700	1.78	0.88
Lead	(t)	15 313	14 211	13 016	10 074	11 283	-26.32	12.00
Zinc	(t)	23 196	22 512	22 953	13 174	18 866	-18.67	43.21
Gold	(kg)	1 066	2 492	2 328	1 600	940	-11.82	-41.25
Silver	(kg)	39 759	39 028	35 785	28 050	29 342	-26.20	4.61
Bentonite	(t)	1 235 105	1 000 000	1 011 485	1 123 320	883 220	-28.49	-21.37
Feldspar	(t)	33 800	0	0	0	0	-100.00	.
Gypsum	(t)	621 329	760 000	664 288	649 280	777 990	25.21	19.82
Magnesite	(t)	351 266	383 000	360 268	383 230	397 940	13.29	3.84
Perlite	(t)	876 396	890 000	985 328	890 670	921 410	5.14	3.45
Salt	(t)	191 970	189 500	146 402	121 537	158 020	-17.69	30.02
Sulfur	(t)	227 197	230 000	220 000	155 000	185 000	-18.57	19.35

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Lignite	(t)	62 334 803	55 500 000	50 800 000	46 308 120	32 674 790	-47.58	-29.44
Nat. Gas (Mio m³)		6	5	5	4	9	50.00	125.00
Petroleum	(t)	90 230	83 121	70 139	72 649	173 486	92.27	138.80
Total	(t)	68 007 239	61 109 832	56 365 231	51 762 424	38 260 645		

GREENLAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	203	0	0	0	0	-100.00	.
Total	(t)	0	0	0	0	0		

GUATEMALA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	4 540	330	850	7 310	8 210	80.84	12.31
Nickel	(t)	2 400	9 200	57 700	38 500	36 900	1 437.50	-4.16
Antimony	(t)	62	159	0	0	25	-59.68	.
Lead	(t)	2 269	818	10 359	10 153	10 000	340.72	-1.51
Zinc	(t)	3 300	865	13 394	14 810	15 000	354.55	1.28
Gold	(kg)	6 473	6 386	6 140	5 641	3 907	-39.64	-30.74
Silver	(kg)	204 556	265 943	858 356	862 814	837 793	309.57	-2.90
Baryte	(t)	91	343	43	544	500	449.45	-8.09
Bentonite	(t)	131 843	18 418	75 200	718	18 081	-86.29	2 418.25
Feldspar	(t)	19 356	19 611	10 410	10 340	30 428	57.20	194.27
Gypsum	(t)	99 628	117 619	81 805	111 351	130 617	31.10	17.30
Kaolin	(t)	1 866	1 342	1 285	1 101	793	-57.50	-27.97
Magnesite	(t)	27 132	17 196	24 268	25 000	23 954	-11.71	-4.18
Salt	(t)	50 000	0	0	0	0	-100.00	.
Talc	(t)	2 449	3 254	3 368	3 779	2 733	11.60	-27.68
Petroleum	(t)	528 700	497 200	500 400	499 800	448 100	-15.24	-10.34
Total	(t)	873 847	686 627	779 946	724 275	726 183		

GUINEA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	19 977 000	18 763 000	19 182 000	20 163 774	31 117 131	55.76	54.32
Gold	(kg)	16 154	18 140	23 458	21 458	30 274	87.41	41.08

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Diam. (Gem)	(ct)	200 100	151 774	123 044	125 161	84 597	-57.72	-32.41
Diam. (Ind)	(ct)	66 700	50 591	41 015	41 720	28 200	-57.72	-32.41
Total	(t)	19 977 016	18 763 018	19 182 023	20 163 795	31 117 161		

GUYANA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	2 213 972	1 713 242	1 563 563	1 526 467	1 479 090	-33.19	-3.10
Gold	(kg)	13 643	14 963	12 053	14 029	22 168	62.49	58.02
Diam. (Gem)	(ct)	30 573	41 946	74 963	88 838	104 920	243.18	18.10
Diam. (Ind)	(ct)	10 191	13 982	24 988	29 613	34 970	243.15	18.09
Total	(t)	2 213 986	1 713 257	1 563 575	1 526 481	1 479 112		

HONDURAS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Antimony	(t)		0	13	14	0	.	-100.00
Lead	(t)	12 400	11 600	15 500	9 800	4 000	-67.74	-59.18
Zinc	(t)	26 000	25 000	30 000	23 000	14 500	-44.23	-36.96
Gold	(kg)	1 858	1 985	2 762	2 598	2 607	40.31	0.35
Silver	(kg)	50 605	50 916	56 826	34 369	17 803	-64.82	-48.20
Gypsum	(t)	5 500	5 500	2 598	2 600	5 000	-9.09	92.31
Salt	(t)	25 000	30 000	54 400	45 400	59 000	136.00	29.96
Total	(t)	68 953	72 153	102 571	80 851	82 521		

HUNGARY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	13 750	9 370	13 650	15 330	4 840	-64.80	-68.43
Bauxite	(t)	255 073	93 700	14 400	8 300	16 710	-93.45	101.33
Gallium	(t)	4	2	2	0	0	-100.00	.
Bentonite	(t)	1 392	10 360	13 893	14 170	14 000	905.75	-1.20
Perlite	(t)	70 000	31 024	32 750	31 275	31 000	-55.71	-0.88
Lignite	(t)	9 297 500	9 552 700	9 553 700	9 263 180	9 263 270	-0.37	0.00
Nat. Gas (Mio m³)		2 205	2 060	1 933	1 887	1 823	-17.32	-3.39
Petroleum	(t)	649 706	610 000	594 000	633 072	732 702	12.77	15.74
Total	(t)	12 051 425	11 955 156	11 768 795	11 474 927	11 520 922		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

ICELAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	801 166	836 325	848 639	865 016	861 950	7.59	-0.35
Salt	(t)	5 000	5 000	5 000	5 000	5 000	0.00	0.00
Total	(t)	806 166	841 325	853 639	870 016	866 950		

INDIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	91 534 060	101 962 610	84 058 650	102 770 200	124 852 650	36.40	21.49
Chromium	(t)	1 303 600	1 324 000	995 500	1 341 200	1 714 800	31.54	27.86
Manganese	(t)	820 310	886 550	780 210	722 700	798 150	-2.70	10.44
Titanium	(t)	421 900	409 900	368 600	302 900	320 000	-24.15	5.65
Aluminium	(t)	1 720 000	1 667 300	2 026 803	2 354 949	2 896 629	68.41	23.00
Bauxite	(t)	16 611 610	22 319 148	22 493 671	28 123 789	24 664 632	48.48	-12.30
Cadmium	(t)	391	228	69	0	35	-91.05	.
Copper	(t)	28 440	32 276	24 750	34 920	31 000	9.00	-11.23
Lead	(t)	104 340	109 810	111 370	143 710	147 110	40.99	2.37
Selenium	(t)	16	16	16	17	17	6.25	0.00
Tin	(t)	36	26	19	10	9	-75.00	-10.00
Zinc	(t)	759 530	769 930	767 180	740 740	745 980	-1.78	0.71
Gold	(kg)	1 588	1 564	1 440	1 323	1 594	0.38	20.48
Silver	(kg)	374 046	349 774	327 647	426 443	460 811	23.20	8.06
Asbestos	(t)	389	172	0	0	0	-100.00	.
Baryte	(t)	1 789 431	1 170 522	910 963	900 000	1 300 000	-27.35	44.44
Bentonite	(t)	1 081 000	1 310 000	1 333 000	1 580 000	1 600 000	48.01	1.27
Diam. (Gem)	(ct)	2 559	3 000	2 889	2 884	2 920	14.11	1.25
Diam. (Ind)	(ct)	29 430	34 515	33 218	33 160	33 596	14.16	1.31
Feldspar	(t)	1 459 008	1 512 982	1 343 366	1 350 000	1 400 000	-4.04	3.70
Fluorspar	(t)	3 092	2 486	2 947	2 333	1 175	-62.00	-49.64
Graphite	(t)	134 735	146 390	116 712	135 528	122 437	-9.13	-9.66
Gypsum	(t)	3 556 723	3 115 363	2 477 849	2 500 000	2 500 000	-29.71	0.00
Kaolin	(t)	4 258 697	4 781 519	3 861 380	4 770 000	4 110 000	-3.49	-13.84
Magnesite	(t)	224 315	196 940	285 009	327 663	299 167	33.37	-8.70
Phosphates	(t)	458 800	338 910	363 060	337 550	270 550	-41.03	-19.85
Salt	(t)	24 546 900	23 019 300	26 887 100	27 643 700	29 192 000	18.92	5.60
Sulfur	(t)	2 240 804	2 263 625	2 564 808	2 741 100	2 927 500	30.65	6.80
Talc	(t)	1 219 746	1 112 602	921 712	920 000	950 000	-22.11	3.26
Vermiculite	(t)	7 947	11 851	15 327	23 279	6 543	-17.67	-71.89
Zircon	(t)	21 125	20 626	18 891	18 437	18 000	-14.79	-2.37
Steam Coal	(t)	504 820 000	508 947 000	551 733 000	578 343 000	601 131 000	19.08	3.94
Coking Coal	(t)	51 582 000	56 818 000	57 446 000	60 887 000	61 661 000	19.54	1.27
Lignite	(t)	46 453 000	44 271 000	48 270 000	43 842 000	45 124 000	-2.86	2.92

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Nat. Gas (Mio m³)	40 679	35 407	33 657	32 249	30 866	-24.12	-4.29
Petroleum (t)	37 862 000	37 778 000	37 461 000	36 951 000	36 009 000	-4.89	-2.55
Uranium (t)	454	472	454	454	454	0.00	0.00
Total	(t) 827 567 975	844 625 506	874 565 345	925 607 806	969 487 101		

INDONESIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	6 350 200	12 294 300	3 273 300	2 111 200	2 300 000	-63.78	8.94
Cobalt	(t)	3 600	4 700	329	350	350	-90.28	0.00
Manganese	(t)	14 000	2 000	3 700	27 600	27 600	97.14	0.00
Nickel	(t)	648 400	834 200	215 000	129 600	170 800	-73.66	31.79
Aluminium	(t)	253 000	255 300	264 500	257 100	245 000	-3.16	-4.71
Bauxite	(t)	31 443 000	57 023 800	2 539 274	471 867	494 722	-98.43	4.84
Copper	(t)	398 000	509 200	378 800	578 600	700 224	75.94	21.02
Tin	(t)	103 324	92 491	75 170	70 310	62 877	-39.15	-10.57
Gold	(kg)	69 291	59 804	69 349	92 171	91 090	31.46	-1.17
Silver	(kg)	247 827	123 109	119 189	151 934	112 774	-54.49	-25.77
Bentonite	(t)	6 500	7 000	7 000	7 000	7 000	7.69	0.00
Feldspar	(t)	742 900	1 530 600	1 474 100	1 206 700	1 200 000	61.53	-0.56
Gypsum	(t)	7 500	8 000	8 000	8 000	8 000	6.67	0.00
Kaolin	(t)	623 300	739 900	753 000	683 000	680 000	9.10	-0.44
Phosphates	(t)	400	0	0	0	0	-100.00	.
Salt	(t)	1 855 290	872 710	1 877 170	2 186 600	141 000	-92.40	-93.55
Sulfur	(t)	500 000	540 000	540 000	540 000	540 000	8.00	0.00
Zircon	(t)	109 000	49 400	21 000	30 900	34 800	-68.07	12.62
Steam Coal	(t)	446 354 000	489 462 000	487 284 000	452 537 000	459 469 000	2.94	1.53
Coking Coal	(t)	4 237 000	2 244 000	1 022 000	985 000	1 013 000	-76.09	2.84
Nat. Gas (Mio m³)		77 940	77 230	76 110	75 740	74 670	-4.20	-1.41
Petroleum	(t)	42 920 400	41 033 200	39 269 800	39 121 400	36 674 800	-14.55	-6.25
Total	(t)	598 922 131	669 286 984	599 894 331	561 544 471	563 505 377		

IRAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	21 085 200	25 329 500	25 709 416	25 797 898	21 623 000	2.55	-16.18
Chromium	(t)	192 210	191 100	157 953	142 810	162 100	-15.67	13.51
Manganese	(t)	66 106	70 156	56 628	69 760	33 110	-49.91	-52.54
Molybdenum	(t)	3 516	3 471	3 494	3 337	3 340	-5.01	0.09
Aluminium	(t)	336 500	299 448	286 514	353 000	293 988	-12.63	-16.72
Antimony	(t)	0	400	432	216	2 767	.	1 181.02
Arsenic	(t)	101	110	110	110	0	-100.00	-100.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Bauxite	(t)	898 400	788 630	540 003	773 700	765 616	-14.78	-1.04
Copper	(t)	238 000	222 900	216 800	254 709	282 500	18.70	10.91
Lead	(t)	45 000	42 000	44 000	40 800	42 000	-6.67	2.94
Mercury	(t)	0	10	12	14	3	.	-78.57
Zinc	(t)	138 000	130 000	150 000	168 210	176 400	27.83	4.87
Gold	(kg)	1 500	1 656	1 760	2 368	4 537	202.47	91.60
Silver	(kg)	40 000	673	34 945	48 380	50 000	25.00	3.35
Baryte	(t)	393 000	450 000	671 316	1 085 667	1 449 038	268.71	33.47
Bentonite	(t)	427 000	397 106	419 693	435 974	356 036	-16.62	-18.34
Boron	(t)	3 000	914	180	515	36	-98.80	-93.01
Diatomite	(t)	0	9 500	9 912	9 500	37	.	-99.61
Feldspar	(t)	1 110 000	1 313 233	1 128 569	1 003 354	1 120 449	0.94	11.67
Fluorspar	(t)	80 000	69 828	78 736	39 286	70 820	-11.48	80.27
Gypsum	(t)	19 000 000	21 118 681	19 550 120	17 793 500	15 715 011	-17.29	-11.68
Kaolin	(t)	800 000	946 388	820 067	791 193	868 179	8.52	9.73
Magnesite	(t)	143 000	170 741	165 886	165 073	145 223	1.55	-12.02
Perlite	(t)	30 000	55 101	42 646	63 030	17 083	-43.06	-72.90
Phosphates	(t)	110 000	113 600	36 527	65 342	77 912	-29.17	19.24
Potash	(t)	0	3 600	449 700	632 100	929 400	.	47.03
Salt	(t)	2 962 000	2 078 682	3 940 112	4 448 463	2 995 025	1.11	-32.67
Sulfur	(t)	2 000 000	2 100 000	2 100 000	2 200 000	2 200 000	10.00	0.00
Talc	(t)	116 000	92 958	52 492	150 965	87 899	-24.23	-41.78
Vermiculite	(t)	1 200	1 200	1 200	1 000	1 000	-16.67	0.00
Steam Coal	(t)	104 000	183 000	166 000	186 000	208 000	100.00	11.83
Coking Coal	(t)	937 000	922 000	909 000	909 000	1 018 000	8.64	11.99
Nat. Gas (Mio m³)		166 160	166 780	185 840	189 370	202 440	21.83	6.90
Petroleum	(t)	180 681 560	169 763 250	174 238 970	181 606 500	216 431 380	19.79	19.18
Total	(t)	364 828 835	360 291 510	380 618 525	390 687 076	429 027 407		

IRAQ

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bentonite	(t)	6 530	6 288	6 000	6 000	6 000	-8.12	0.00
Kaolin	(t)	3 000	0	0	0	0	-100.00	.
Phosphates	(t)	43 530	63 800	25 000	0	40 000	-8.11	.
Salt	(t)	143 440	182 000	180 000	180 000	180 000	25.49	0.00
Sulfur	(t)	20 000	37 500	37 000	40 000	40 000	100.00	0.00
Nat. Gas (Mio m³)		650	1 180	900	1 030	1 130	73.85	9.71
Petroleum	(t)	152 498 300	153 241 900	160 278 000	197 033 200	218 939 500	43.57	11.12
Total	(t)	153 234 800	154 475 488	161 246 000	198 083 200	220 109 500		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

IRELAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Lead	(t)	47 400	42 950	40 500	31 300	19 600	-58.65	-37.38
Zinc	(t)	337 500	326 700	282 600	236 300	147 800	-56.21	-37.45
Silver	(kg)	9 454	7 822	6 436	3 770	1 076	-88.62	-71.46
Gypsum	(t)	200 000	200 000	300 000	250 000	250 000	25.00	0.00
Nat. Gas (Mio m³)		200	160	140	120	2 750	1 275.00	2 191.67
Total	(t)	744 909	697 658	735 106	613 604	2 617 401		

ISRAEL

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	45 407	27 200	82 000	159 300	160 000	252.37	0.44
Phosphates	(t)	948 500	966 100	906 400	1 039 000	1 065 700	12.36	2.57
Potash	(t)	1 943 900	1 893 300	1 830 600	1 281 000	2 093 100	7.68	63.40
Salt	(t)	415 000	442 000	459 742	333 300	420 000	1.20	26.01
Nat. Gas (Mio m³)		2 450	6 205	6 780	7 500	9 300	279.59	24.00
Oil shales	(t)	423 000	420 900	395 600	420 100	423 000	0.00	0.69
Petroleum	(t)	4 360	63 220	81 960	76 170	76 000	1 643.12	-0.22
Total	(t)	5 740 167	8 776 720	9 180 302	9 308 870	11 677 800		

ITALY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	72 000	0	0	0	0	-100.00	.
Baryte	(t)	3 500	0	0	0	0	-100.00	.
Bentonite	(t)	95 757	20 709	20 000	12 840	45 978	-51.98	258.08
Feldspar	(t)	2 179 522	2 182 561	2 185 000	2 200 000	2 200 000	0.94	0.00
Gypsum	(t)	2 563 000	3 163 273	5 886 650	571 730	617 188	-75.92	7.95
Kaolin	(t)	200 000	577 249	384 891	305 327	408 810	104.41	33.89
Salt	(t)	2 862 440	3 543 881	3 200 000	3 030 687	2 550 849	-10.89	-15.83
Sulfur	(t)	740 000	740 000	740 000	666 600	675 700	-8.69	1.37
Talc	(t)	140 000	162 234	165 000	165 000	165 000	17.86	0.00
Steam Coal	(t)	80 000	62 107	86 000	73 000	59 000	-26.25	-19.18
Nat. Gas (Mio m³)		8 605	7 735	7 149	6 771	5 785	-32.77	-14.56
Petroleum	(t)	5 397 000	5 502 000	5 765 000	5 470 000	3 746 000	-30.59	-31.52
Total	(t)	21 217 219	22 142 014	24 151 741	17 911 984	15 096 525		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

JAMAICA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	9 339 300	9 477 133	9 676 697	9 628 818	8 540 131	-8.56	-11.31
Gypsum	(t)	64 753	48 322	45 200	43 000	50 000	-22.78	16.28
Salt	(t)	14 587	14 166	14 169	14 379	15 354	5.26	6.78
Total	(t)	9 418 640	9 539 621	9 736 066	9 686 197	8 605 485		

JAPAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	4 500	3 000	500	0	0	-100.00	.
Arsenic	(t)	40	45	45	45	45	12.50	0.00
Bismuth	(t)	446	485	582	773	682	52.91	-11.77
Cadmium	(t)	1 855	1 821	1 851	1 959	1 988	7.17	1.48
Gallium	(t)	8	8	8	8	5	-37.50	-37.50
Germanium	(t)	2	2	2	2	2	0.00	0.00
Selenium	(t)	820	741	782	773	752	-8.29	-2.72
Tellurium	(t)	43	31	37	37	33	-23.26	-10.81
Gold	(kg)	7 232	7 411	7 114	7 699	6 455	-10.74	-16.16
Silver	(kg)	3 526	3 644	3 541	4 616	5 076	43.96	9.97
Bentonite	(t)	430 000	500 000	500 000	500 000	500 000	16.28	0.00
Feldspar	(t)	100 000	100 000	105 000	105 000	105 000	5.00	0.00
Kaolin	(t)	12 000	13 000	13 000	12 000	12 000	0.00	0.00
Salt	(t)	925 000	929 000	928 000	938 000	928 000	0.32	-1.07
Sulfur	(t)	3 397 250	3 464 700	3 502 600	3 420 900	3 517 800	3.55	2.83
Talc	(t)	365 000	370 000	375 000	375 000	375 000	2.74	0.00
Vermiculite	(t)	6 000	6 200	6 200	6 000	6 000	0.00	0.00
Nat. Gas (Mio m³)		3 276	2 995	2 822	2 734	2 754	-15.93	0.73
Petroleum	(t)	714 700	618 500	579 700	536 700	494 000	-30.88	-7.96
Total	(t)	8 578 475	8 403 544	8 270 918	8 084 410	8 144 518		

JORDAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	260 000	270 000	275 000	275 000	81 000	-68.85	-70.55
Kaolin	(t)	76 000	80 000	100 000	60 000	11 935	-84.30	-80.11
Phosphates	(t)	2 042 530	1 727 550	2 285 990	2 667 520	2 557 170	25.20	-4.14
Potash	(t)	1 112 640	1 063 840	1 275 460	1 436 550	1 222 140	9.84	-14.93
Salt	(t)	32 000	10 000	8 000	10 000	10 000	-68.75	0.00
Sulfur	(t)	275 700	268 800	304 800	254 900	130 000	-52.85	-49.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Nat. Gas (Mio m³)	164	150	130	122	116	-29.27	-4.92
Petroleum (t)	1 100	1 100	800	500	400	-63.64	-20.00
Total (t)	3 931 170	3 541 290	4 354 050	4 802 070	4 105 445		

KAZAKHSTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	16 827 530	16 398 330	15 965 110	11 122 150	10 632 570	-36.81	-4.40
Chromium	(t)	1 909 900	2 008 400	2 143 900	1 992 400	1 989 500	4.17	-0.15
Manganese	(t)	601 000	575 800	527 000	328 400	323 300	-46.21	-1.55
Molybdenum	(t)	360	0	0	430	1 941	439.17	351.40
Titanium	(t)	29 150	30 000	20 000	12 770	9 900	-66.04	-22.47
Vanadium	(t)	1 000	1 000	1 000	1 000	0	-100.00	-100.00
Aluminium	(t)	250 269	250 200	207 850	219 000	235 566	-5.87	7.56
Antimony	(t)	600	900	1 000	979	573	-4.50	-41.47
Bauxite	(t)	5 170 200	5 192 800	4 515 600	4 682 600	4 801 300	-7.14	2.53
Cadmium	(t)	1 166	1 319	1 633	1 459	2 682	130.02	83.82
Copper	(t)	426 200	452 500	471 700	467 500	471 500	10.63	0.86
Gallium	(t)	16	0	0	0	0	-100.00	.
Lead	(t)	38 100	40 100	37 800	40 700	70 500	85.04	73.22
Rhenium	(kg)	3 000	2 500	300	3 306	3 300	10.00	-0.18
Selenium	(t)	130	130	50	13	13	-90.00	0.00
Zinc	(t)	369 700	361 500	345 200	342 500	324 800	-12.14	-5.17
Gold	(kg)	39 903	42 552	50 339	63 614	74 737	87.30	17.49
Silver	(kg)	958 495	958 258	983 697	1 306 575	1 182 476	23.37	-9.50
Asbestos	(t)	241 200	243 400	213 100	179 800	192 600	-20.15	7.12
Baryte	(t)	590 100	563 700	655 500	752 300	612 300	3.76	-18.61
Bentonite	(t)					119 100	.	.
Boron	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Phosphates	(t)	438 800	410 500	349 500	387 100	348 600	-20.56	-9.95
Salt	(t)	463 960	531 429	596 508	608 627	730 283	57.40	19.99
Sulfur	(t)	2 600 000	2 900 000	2 950 000	3 150 000	2 850 000	9.62	-9.52
Steam Coal	(t)	99 823 000	99 916 000	89 185 000	84 773 000	82 142 000	-17.71	-3.10
Coking Coal	(t)	12 956 000	12 968 000	17 906 000	17 020 000	10 498 000	-18.97	-38.32
Lignite	(t)	7 748 000	6 690 000	6 894 000	5 526 000	5 041 300	-34.93	-8.77
Nat. Gas (Mio m³)		40 299	42 405	43 438	45 506	46 676	15.82	2.57
Petroleum	(t)	79 224 500	81 786 700	80 825 600	79 456 300	78 031 800	-1.51	-1.79
Uranium	(t)	25 137	26 533	26 920	28 072	29 113	15.82	3.71
Total	(t)	262 006 219	265 304 245	258 621 405	247 529 274	236 831 301		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

KENYA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	43 700	93 000	0	0	0	-100.00	.
Titanium	(t)	0	3 190	258 910	319 750	339 480	.	6.17
Gold	(kg)	3 642	2 100	237	337	200	-94.51	-40.65
Diatomite	(t)	1 746	1 054	1 195	1 090	1 092	-37.46	0.18
Fluorspar	(t)	91 000	71 987	97 156	70 096	42 656	-53.13	-39.15
Gypsum	(t)	6 653	5 500	5 900	5 800	5 760	-13.42	-0.69
Kaolin	(t)	1 100	1 100	1 100	1 100	1 000	-9.09	-9.09
Salt	(t)	9 980	8 895	18 936	21 201	23 425	134.72	10.49
Vermiculite	(t)	457	400	440	410	100	-78.12	-75.61
Zircon	(t)		0	15 004	25 951	39 687	.	52.93
Total	(t)	154 640	185 128	398 641	445 398	453 200		

KOREA, NORTH

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	1 450 000	865 000	963 600	579 300	600 000	-58.62	3.57
Molybdenum	(t)	370	270	250	370	440	18.92	18.92
Tungsten	(t)	95	85	70	72	50	-47.37	-30.56
Cadmium	(t)	200	200	200	200	200	0.00	0.00
Copper	(t)	6 700	6 200	14 400	15 000	20 000	198.51	33.33
Lead	(t)	38 000	40 000	36 100	32 300	36 800	-3.16	13.93
Zinc	(t)	35 000	36 000	32 000	32 000	64 000	82.86	100.00
Silver	(kg)	50 000	50 000	50 000	50 000	50 000	0.00	0.00
Baryte	(t)	0	600	20	12 000	9 000	.	-25.00
Fluorspar	(t)	6 500	5 000	5 000	4 000	0	-100.00	-100.00
Graphite	(t)	40 000	30 000	30 000	40 000	47 000	17.50	17.50
Magnesite	(t)	150 000	180 000	180 200	154 000	167 000	11.33	8.44
Phosphates	(t)	95 000	95 000	95 000	95 000	95 000	0.00	0.00
Salt	(t)	500 000	500 000	500 000	500 000	500 000	0.00	0.00
Sulfur	(t)	42 000	42 000	42 000	42 000	42 000	0.00	0.00
Talc	(t)	50 000	50 000	50 000	50 000	40 000	-20.00	-20.00
Steam Coal	(t)	30 288 000	29 942 000	30 831 000	35 208 000	35 208 000	16.24	0.00
Lignite	(t)	4 488 000	3 342 000	3 741 000	2 530 000	3 238 000	-27.85	27.98
Total	(t)	37 189 915	35 134 405	36 520 890	39 294 292	40 067 540		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

KOREA, SOUTH

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	355 650	397 830	415 960	267 190	266 810	-24.98	-0.14
Molybdenum	(t)	421	453	490	258	0	-100.00	-100.00
Titanium	(t)	111 090	126 350	132 490	112 250	91 800	-17.36	-18.22
Tungsten	(t)	14	0	12	8	14	0.00	75.00
Cadmium	(t)	3 904	3 904	4 300	3 620	4 595	17.70	26.93
Copper	(t)				0	117	.	.
Lead	(t)	1 940	2 500	2 760	2 920	2 840	46.39	-2.74
Zinc	(t)	1 430	1 750	1 920	2 070	2 260	58.04	9.18
Gold	(kg)	336	413	283	269	205	-38.99	-23.79
Silver	(kg)	2 926	3 897	3 264	4 586	6 579	124.85	43.46
Bentonite	(t)	88 543	80 188	71 850	78 439	63 834	-27.91	-18.62
Diatomite	(t)	6 000	34 000	65 893	15 310	20 564	242.73	34.32
Feldspar	(t)	359 513	343 366	528 958	601 030	654 398	82.02	8.88
Graphite	(t)	0	0	0	62	0	.	-100.00
Kaolin	(t)	514 841	532 050	429 081	356 866	366 511	-28.81	2.70
Salt	(t)	308 847	421 259	303 510	342 844	323 470	4.73	-5.65
Sulfur	(t)	1 750 000	1 750 000	1 800 000	1 960 000	2 000 000	14.29	2.04
Talc	(t)	504 758	527 609	628 349	603 231	592 247	17.33	-1.82
Steam Coal	(t)	2 094 000	1 815 000	1 748 000	1 764 050	1 727 046	-17.52	-2.10
Nat. Gas (Mio m ³)		484	513	342	218	156	-67.77	-28.44
Total	(t)	6 488 154	6 446 663	6 407 176	6 284 553	6 241 313		

KOSOVO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	500	800	1 000	0	0	-100.00	.
Nickel	(t)	4 440	7 610	6 720	6 650	4 310	-2.93	-35.19
Lead	(t)	6 700	7 400	7 700	5 400	6 900	2.99	27.78
Zinc	(t)	3 800	5 000	5 500	4 000	4 800	26.32	20.00
Silver	(kg)	1 800	0	0	0	0	-100.00	.
Lignite	(t)	8 028 397	8 219 393	7 204 211	8 240 994	8 800 848	9.62	6.79
Total	(t)	8 043 839	8 240 203	7 225 131	8 257 044	8 816 858		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

KUWAIT

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt	(t)	12 000	65 243	56 273	64 289	65 000	441.67	1.11
Sulfur	(t)	844 300	850 000	823 860	753 500	850 000	0.68	12.81
Nat. Gas (Mio m³)		15 515	16 311	15 029	16 909	17 291	11.45	2.26
Petroleum	(t)	148 284 500	145 650 100	142 766 600	142 363 300	147 124 100	-0.78	3.34
Total	(t)	161 552 800	159 614 143	155 669 933	156 708 289	161 871 900		

KYRGYZSTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Tungsten	(t)	100	100	0	80	0	-100.00	-100.00
Antimony	(t)	924	900	1 450	1 200	1 880	103.46	56.67
Copper	(t)		0	700	3 100	8 200	.	164.52
Mercury	(t)	75	31	46	20	20	-73.33	0.00
Gold	(kg)	10 333	19 298	18 117	17 015	19 497	88.69	14.59
Silver	(kg)	2 650	5 070	5 609	8 101	13 490	409.06	66.52
Gypsum	(t)	312 700	600 700	484 300	60 617	60 000	-80.81	-1.02
Kaolin	(t)	124 500	187 400	200 000	200 000	200 000	60.64	0.00
Salt	(t)	2 700	3 900	5 300	4 744	4 900	81.48	3.29
Steam Coal	(t)	153 000	251 000	291 700	228 000	244 000	59.48	7.02
Lignite	(t)	1 011 000	1 157 000	1 505 000	1 641 000	2 281 000	125.62	39.00
Nat. Gas (Mio m³)		29	25	32	28	30	3.45	7.14
Petroleum	(t)	77 100	77 000	74 050	96 400	140 000	81.58	45.23
Total	(t)	1 705 312	2 298 055	2 588 170	2 257 586	2 964 032		

LAOS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	121 630	560 950	680 840	140 850	69 040	-43.24	-50.98
Antimony	(t)	521	804	620	1 166	242	-53.55	-79.25
Copper	(t)	149 580	154 915	159 696	167 702	167 679	12.10	-0.01
Lead	(t)	160	1 600	100	190	510	218.75	168.42
Tin	(t)	468	521	782	461	1 005	114.74	118.00
Zinc	(t)	1 162	2 000	2 000	0	750	-35.46	.
Gold	(kg)	6 415	6 838	5 260	6 893	6 764	5.44	-1.87
Silver	(kg)	20 292	32 262	39 801	51 764	50 904	150.86	-1.66
Baryte	(t)	21 900	10 500	30 610	32 150	33 240	51.78	3.39

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Gypsum	(t)	562 386	772 138	584 338	989 516	469 436	-16.53	-52.56
Potash	(t)	26 600	82 500	189 400	255 100	198 600	646.62	-22.15
Salt	(t)	47 600	50 000	51 000	35 100	36 398	-23.53	3.70
Steam Coal	(t)	129 927	104 260	105 564	106 028	138 809	6.84	30.92
Lignite	(t)	575 387	403 925	26 320	4 464 068	13 097 121	2 176.23	193.39
Total	(t)	1 637 347	2 144 152	1 831 315	6 192 390	14 212 888		

LATVIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	252 710	272 340	270 120	225 370	224 000	-11.36	-0.61
Total	(t)	252 710	272 340	270 120	225 370	224 000		

LEBANON

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	110 000	110 000	110 000	110 000	110 000	0.00	0.00
Salt	(t)	20 000	20 000	15 000	15 000	15 000	-25.00	0.00
Total	(t)	130 000	130 000	125 000	125 000	125 000		

LESOTHO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Diam. (Gem)	(ct)	95 785	82 803	69 203	60 846	68 403	-28.59	12.42
Diam. (Ind)	(ct)	383 141	331 211	276 814	243 386	273 611	-28.59	12.42
Total	(t)	0	0	0	0	0		

LIBERIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	1 184 900	2 474 000	2 952 800	2 717 700	843 100	-28.85	-68.98
Gold	(kg)	641	587	620	829	4 704	633.85	467.43
Diam. (Gem)	(ct)	20 560	28 690	44 930	39 600	36 220	76.17	-8.54
Diam. (Ind)	(ct)	13 710	19 130	29 950	26 400	24 150	76.15	-8.52
Total	(t)	1 184 901	2 474 001	2 952 801	2 717 701	843 105		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

LIBYA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	120 000	120 000	150 000	150 000	150 000	25.00	0.00
Salt	(t)	40 000	30 000	30 000	30 000	30 000	-25.00	0.00
Sulfur	(t)	138 000	70 000	97 000	90 000	75 000	-45.65	-16.67
Nat. Gas (Mio m³)		11 070	11 620	11 300	11 800	10 090	-8.85	-14.49
Petroleum	(t)	71 218 900	46 549 300	23 391 000	20 283 000	20 043 400	-71.86	-1.18
Total	(t)	80 372 900	56 065 300	32 708 000	29 993 000	28 370 400		

LITHUANIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Sulfur	(t)	73 050	81 400	76 600	84 000	94 520	29.39	12.52
Petroleum	(t)	101 644	86 030	81 920	73 100	63 500	-37.53	-13.13
Total	(t)	174 694	167 430	158 520	157 100	158 020		

MACEDONIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nickel	(t)	20 782	21 133	0	0	0	-100.00	.
Copper	(t)	8 901	8 763	8 500	8 834	9 032	1.47	2.24
Lead	(t)	39 180	42 820	43 810	37 920	31 030	-20.80	-18.17
Zinc	(t)	28 040	30 910	31 570	29 150	24 870	-11.31	-14.68
Gold	(kg)	500	490	480	494	664	32.80	34.41
Silver	(kg)	31 000	23 420	23 910	17 660	13 970	-54.94	-20.89
Bentonite	(t)	2 355	18 520	11 691	9 004	1 968	-16.43	-78.14
Feldspar	(t)	17 168	15 168	18 076	20 289	19 919	16.02	-1.82
Gypsum	(t)	157 844	162 661	156 492	172 525	202 582	28.34	17.42
Talc	(t)	286	621	483	598	715	150.00	19.57
Lignite	(t)	7 309 546	6 633 560	6 469 819	5 927 749	5 101 758	-30.20	-13.93
Total	(t)	7 584 133	6 934 179	6 740 465	6 206 087	5 391 889		

MADAGASCAR

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	45 100	57 420	60 750	98 000	39 200	-13.08	-60.00
Cobalt	(t)	718	2 340	3 221	3 920	3 654	408.91	-6.79
Nickel	(t)	8 254	26 908	37 046	45 075	42 024	409.13	-6.77
Titanium	(t)	353 700	304 100	206 700	102 700	127 000	-64.09	23.66
Gold	(kg)	157	160	160	160	586	273.25	266.25
Graphite	(t)	3 629	3 833	5 316	8 100	9 230	154.34	13.95
Salt	(t)	75 000	75 000	80 000	80 000	80 000	6.67	0.00
Zircon	(t)	31 242	31 345	27 275	12 500	12 250	-60.79	-2.00
Total	(t)	517 643	500 946	420 308	350 295	313 359		

MALAWI

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bentonite	(t)	1 000	0	0	0	0	-100.00	.
Phosphates	(t)	2 110	2 000	1 900	2 110	2 100	-0.47	-0.47
Steam Coal	(t)	70 552	67 024	63 673	58 774	43 338	-38.57	-26.26
Uranium	(t)	1 298	1 335	435	0	0	-100.00	.
Total	(t)	74 960	70 359	66 008	60 884	45 438		

MALAYSIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	6 858 190	7 644 580	6 057 650	1 015 450	1 163 840	-83.03	14.61
Manganese	(t)	527 800	540 060	401 010	247 340	327 200	-38.01	32.29
Tantalum	(t)	26	19	26	9	8	-69.23	-11.11
Titanium	(t)	12 250	14 510	7 400	3 590	2 370	-80.65	-33.98
Aluminium	(t)	121 900	290 000	440 000	440 000	620 000	408.61	40.91
Bauxite	(t)	121 873	219 888	3 676 876	27 900 000	6 700 000	5 397.53	-75.99
Rare Earths	(t)	113	261	455	565	600	430.97	6.19
Tin	(t)	3 725	3 697	3 777	4 159	4 123	10.68	-0.87
Gold	(kg)	4 625	3 823	4 308	4 854	2 149	-53.54	-55.73
Silver	(kg)	1 627	361	533	945	1 075	-33.93	13.76
Baryte	(t)	0	500	575	0	0	.	.
Feldspar	(t)	237 945	314 399	378 446	442 980	326 648	37.28	-26.26
Kaolin	(t)	438 923	293 480	219 652	294 693	284 023	-35.29	-3.62
Zircon	(t)	442	379	677	826	653	47.74	-20.94

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	2 941 620	2 907 463	2 687 764	2 559 444	2 414 764	-17.91	-5.65
Nat. Gas (Mio m³)		62 241	64 818	65 441	63 425	67 557	8.54	6.51
Petroleum	(t)	28 777 000	28 249 000	30 023 000	32 580 100	33 193 400	15.35	1.88
Total	(t)	89 834 614	92 332 640	96 250 113	116 229 162	99 083 232		

MALI

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	46 200	47 000	45 800	46 503	46 938	1.60	0.94
Silver	(kg)	3 000	2 577	2 489	2 608	2 600	-13.33	-0.31
Total	(t)	49	50	48	50	50		

MALTA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Salt	(t)	6 000	6 000	6 000	5 000	5 000	-16.67	0.00
Total	(t)	6 000	6 000	6 000	5 000	5 000		

MAURITANIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	7 272 900	8 491 300	8 648 800	7 544 600	8 624 200	18.58	14.31
Copper	(t)	37 670	37 970	33 079	45 001	32 818	-12.88	-27.07
Gold	(kg)	7 647	9 518	9 624	8 805	7 127	-6.80	-19.06
Gypsum	(t)	45 576	20 000	30 000	70 000	80 000	75.53	14.29
Petroleum	(t)	329 300	334 800	296 000	263 700	235 600	-28.45	-10.66
Total	(t)	7 685 454	8 884 080	9 007 889	7 923 310	8 972 625		

MEXICO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	8 949 565	11 303 740	9 976 750	8 077 160	7 253 810	-18.95	-10.19
Manganese	(t)	188 294	211 559	235 686	217 466	205 645	9.21	-5.44
Molybdenum	(t)	11 366	12 562	14 370	11 327	11 896	4.66	5.02
Antimony	(t)	169	294	266	90	166	-1.78	84.44
Bauxite	(t)	96 000	0	0	0	0	-100.00	.

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Bismuth	(t)	800	824	948	601	539	-32.63	-10.32
Cadmium	(t)	1 482	1 451	1 409	1 283	1 244	-16.06	-3.04
Copper	(t)	500 275	480 124	515 025	594 451	766 129	53.14	28.88
Lead	(t)	238 091	253 361	250 462	263 772	241 271	1.34	-8.53
Mercury	(t)	190	268	301	307	267	40.53	-13.03
Selenium	(t)	95	132	120	99	121	27.37	22.22
Zinc	(t)	660 349	642 542	659 878	786 774	661 188	0.13	-15.96
Gold	(kg)	102 802	117 848	117 771	134 759	132 413	28.80	-1.74
Silver	(kg)	5 358 195	5 827 001	5 765 662	5 955 151	5 408 521	0.94	-9.18
Baryte	(t)	139 997	343 585	130 914	265 700	150 970	7.84	-43.18
Bentonite	(t)	956 224	826 887	519 625	294 236	109 176	-88.58	-62.90
Diatomite	(t)	84 537	87 463	87 849	89 810	96 686	14.37	7.66
Feldspar	(t)	380 441	164 484	150 726	159 372	127 213	-66.56	-20.18
Fluorspar	(t)	1 237 091	1 210 477	1 109 721	624 574	655 255	-47.03	4.91
Graphite	(t)	7 520	7 024	9 160	6 524	14 200	88.83	117.66
Gypsum	(t)	9 456 478	7 903 159	7 043 563	7 101 612	7 682 807	-18.76	8.18
Kaolin	(t)	514 730	669 860	546 437	366 049	452 070	-12.17	23.50
Magnesite	(t)	100 724	101 000	100 000	101 000	101 000	0.27	0.00
Perlite	(t)	29 950	27 200	26 000	13 000	19 000	-36.56	46.15
Phosphates	(t)	517 400	717 435	520 040	578 830	988 280	91.01	70.74
Salt	(t)	10 100 935	10 126 601	10 520 508	9 718 027	9 785 053	-3.13	0.69
Sulfur	(t)	1 011 900	1 030 259	992 939	858 527	673 285	-33.46	-21.58
Talc	(t)	463 214	846 813	752 077	20 452	11 392	-97.54	-44.30
Vermiculite	(t)	500	425	226	299	310	-38.00	3.68
Steam Coal	(t)	13 656 051	13 065 353	13 453 540	7 492 620	8 130 459	-40.46	8.51
Coking Coal	(t)	2 166 046	2 216 314	2 561 600	2 439 408	5 551 135	156.28	127.56
Nat. Gas (Mio m³)		57 190	58 190	57 060	54 060	47 180	-17.50	-12.73
Petroleum	(t)	143 857 280	141 845 650	137 097 680	127 515 080	121 350 560	-15.65	-4.83
Total	(t)	241 085 155	240 654 791	232 931 704	210 852 540	202 790 668		

MOLDOVA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	188 200	161 500	172 300	194 900	204 400	8.61	4.87
Total	(t)	188 200	161 500	172 300	194 900	204 400		

MONGOLIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	4 536 840	3 366 270	5 745 880	3 704 040	3 407 480	-24.89	-8.01
Molybdenum	(t)	1 904	1 819	1 999	2 557	2 432	27.73	-4.89
Tungsten	(t)	117	249	765	877	812	594.02	-7.41
Copper	(t)	126 550	203 800	274 600	335 850	374 260	195.74	11.44
Lead	(t)		230	520	200	4 720	.	2 260.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Tin	(t)	54	60	60	41	25	-53.70	-39.02
Zinc	(t)	59 550	52 050	46 600	44 800	50 100	-15.87	11.83
Gold	(kg)	5 995	8 904	19 963	20 829	18 436	207.52	-11.49
Silver	(kg)	28 480	43 800	56 210	79 910	84 920	198.17	6.27
Fluorspar	(t)	428 900	337 800	313 300	280 300	248 900	-41.97	-11.20
Salt	(t)	2 461	2 179	1 852	1 686	478	-80.58	-71.65
Steam Coal	(t)	11 684 000	12 684 000	14 126 000	3 926 000	4 306 000	-63.15	9.68
Coking Coal	(t)	9 339 000	6 933 000	6 165 000	13 144 000	22 842 000	144.59	73.78
Lignite	(t)	6 802 000	6 330 000	6 073 000	5 755 000	6 332 000	-6.91	10.03
Petroleum	(t)	496 000	699 600	1 010 100	1 183 000	1 125 300	126.88	-4.88
Total	(t)	33 477 410	30 611 110	33 759 752	28 378 452	38 694 610		

MONTENEGRO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	74 813	47 951	42 767	42 499	38 915	-47.98	-8.43
Bauxite	(t)	0	61 154	155 153	50 369	667 259	.	1 224.74
Lead	(t)	1 500	1 700	1 800	1 800	2 100	40.00	16.67
Zinc	(t)	4 600	4 600	7 200	7 000	8 100	76.09	15.71
Salt	(t)	16 000	10 000	0	0	0	-100.00	.
Lignite	(t)	1 785 999	1 692 535	1 655 045	1 772 900	1 397 500	-21.75	-21.17
Total	(t)	1 882 912	1 817 940	1 861 965	1 874 568	2 113 874		

MOROCCO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	93 850	108 400	8 250	6 430	5 510	-94.13	-14.31
Cobalt	(t)	1 314	1 378	1 391	1 722	2 081	58.37	20.85
Manganese	(t)	45 100	55 500	45 640	35 850	34 170	-24.24	-4.69
Nickel	(t)	288	160	0	0	0	-100.00	.
Antimony	(t)	590	600	1 380	0	0	-100.00	.
Arsenic	(t)	8 820	8 968	6 863	7 567	6 122	-30.59	-19.10
Copper	(t)	16 580	13 020	22 360	26 850	31 810	91.86	18.47
Lead	(t)	27 550	30 790	27 530	32 160	28 670	4.07	-10.85
Mercury	(t)	20	20	20	20	20	0.00	0.00
Zinc	(t)	46 440	41 820	45 410	53 750	43 020	-7.36	-19.96
Gold	(kg)	519	463	377	448	352	-32.18	-21.43
Silver	(kg)	170 340	194 078	189 147	247 490	268 523	57.64	8.50
Baryte	(t)	1 021 400	1 094 500	1 006 600	1 212 130	668 500	-34.55	-44.85
Bentonite	(t)	91 200	105 240	98 757	92 290	103 230	13.19	11.85

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Feldspar	(t)	36 000	61 000	45 000	32 000	33 600	-6.67	5.00
Fluorspar	(t)	79 300	81 200	79 840	80 890	73 920	-6.78	-8.62
Phosphates	(t)	8 643 000	8 441 700	8 748 400	8 388 700	8 601 000	-0.49	2.53
Salt	(t)	144 200	488 300	439 160	555 760	634 610	340.09	14.19
Talc	(t)	200	0	0	0	0	-100.00	.
Nat. Gas (Mio m³)		76	92	94	87	86	13.16	-1.15
Petroleum	(t)	7 000	6 000	5 200	4 998	4 850	-30.71	-2.96
Total	(t)	10 323 823	10 612 391	10 657 190	10 600 964	10 340 182		

MOZAMBIQUE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Niobium	(t)	33	6	9	5	7	-78.79	40.00
Tantalum	(t)	184	35	50	28	41	-77.72	46.43
Titanium	(t)	320 800	399 900	475 800	425 600	504 200	57.17	18.47
Aluminium	(t)	562 000	564 000	566 880	558 390	571 125	1.62	2.28
Bauxite	(t)	8 633	6 190	3 386	4 985	1 451	-83.19	-70.89
Gold	(kg)	178	91	197	242	201	12.92	-16.94
Bentonite	(t)	846	93	739	350	322	-61.94	-8.00
Diatomite	(t)	541	375	78	0	0	-100.00	.
Salt	(t)	110 000	120 000	150 000	150 000	160 000	45.45	6.67
Zircon	(t)	46 900	31 400	50 800	51 800	68 200	45.42	31.66
Steam Coal	(t)	1 962 200	2 312 973	2 546 586	1 813 717	2 203 430	12.29	21.49
Coking Coal	(t)	2 991 794	3 556 776	3 784 603	4 786 612	3 862 959	29.12	-19.30
Nat. Gas (Mio m³)		3 896	4 350	4 710	5 050	5 160	32.44	2.18
Petroleum	(t)	55 700	56 810	40 690	63 720	65 080	16.84	2.13
Total	(t)	9 176 431	10 528 558	11 387 621	11 895 207	11 564 815		

MYANMAR

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	114 500	157 600	96 800	28 000	116 000	1.31	314.29
Nickel	(t)	5 000	6 100	21 000	26 400	25 000	400.00	-5.30
Tungsten	(t)	200	200	100	250	170	-15.00	-32.00
Antimony	(t)	5 900	7 200	3 360	3 000	2 000	-66.10	-33.33
Copper	(t)	12 000	20 000	33 200	69 850	71 190	493.25	1.92
Lead	(t)	9 800	11 700	18 000	13 600	21 600	120.41	58.82
Tin	(t)	5 000	19 000	35 000	58 000	95 000	1 800.00	63.79
Zinc	(t)	10 000	4 800	6 100	4 850	6 500	-35.00	34.02
Gold	(kg)	380	611	689	1 250	1 250	228.95	0.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Baryte	(t)	15 339	31 295	23 060	2 836	3 215	-79.04	13.36
Bentonite	(t)	550	1 552	0	0	0	-100.00	.
Gypsum	(t)	64 079	60 510	104 994	99 860	338 492	428.24	238.97
Salt	(t)	207 261	169 109	187 616	129 478	221 270	6.76	70.89
Steam Coal	(t)	782 000	535 000	642 000	697 000	535 000	-31.59	-23.24
Lignite	(t)	62 000	42 000	50 000	54 000	42 000	-32.26	-22.22
Nat. Gas (Mio m³)		13 220	13 660	18 500	19 700	18 490	39.86	-6.14
Petroleum	(t)	858 500	847 600	810 500	654 900	598 400	-30.30	-8.63
Total	(t)	12 728 129	12 841 667	16 831 731	17 602 025	16 867 838		

NAMIBIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)			0	2 680	5 680	.	111.94
Manganese	(t)	57 600	58 000	32 000	10 110	5 050	-91.23	-50.05
Arsenic	(t)	4 045	2 000	1 980	2 000	1 960	-51.55	-2.00
Copper	(t)	5 304	5 182	5 086	13 913	16 391	209.03	17.81
Lead	(t)	9 200	10 800	11 700	9 700	6 800	-26.09	-29.90
Zinc	(t)	194 400	184 100	156 300	123 675	132 730	-31.72	7.32
Gold	(kg)	2 287	2 046	2 140	6 410	7 062	208.79	10.17
Silver	(kg)	1 000	1 400	1 128	877	147	-85.30	-83.24
Diam. (Gem)	(ct)	1 576 438	1 674 260	1 791 002	1 676 108	1 494 350	-5.21	-10.84
Diam. (Ind)	(ct)	82 970	88 118	94 263	88 216	78 650	-5.21	-10.84
Fluorspar	(t)	74 157	65 348	99 984	0	0	-100.00	.
Salt	(t)	810 000	826 985	797 405	732 980	835 539	3.15	13.99
Uranium	(t)	5 005	4 878	3 839	3 473	4 308	-13.93	24.04
Total	(t)	1 159 714	1 157 296	1 108 297	898 538	1 008 465		

NAURU

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Phosphates	(t)	167 600	136 800	58 000	45 700	39 800	-76.25	-12.91
Total	(t)	167 600	136 800	58 000	45 700	39 800		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

NEPAL

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Magnesite	(t)		0	225	60	0	.	-100.00
Talc	(t)	6 935	5 140	5 703	5 255	1 860	-73.18	-64.61
Steam Coal	(t)	10 904	14 084	8 151	6 754	2 900	-73.40	-57.06
Total	(t)	17 839	19 224	14 079	12 069	4 760		

NETHERLANDS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	86 300	81 000	800	28 200	36 300	-57.94	28.72
Cadmium	(t)	560	560	600	620	620	10.71	0.00
Salt	(t)	6 513 000	6 518 000	6 485 000	6 742 969	6 625 418	1.73	-1.74
Nat. Gas (Mio m³)		75 970	81 479	68 621	51 237	47 463	-37.52	-7.37
Petroleum	(t)	1 513 900	1 558 700	1 943 700	1 844 700	1 273 800	-15.86	-30.95
Total	(t)	68 889 760	73 341 460	63 326 900	49 606 089	45 906 538		

NEW CALEDONIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Cobalt	(t)	2 631	3 080	4 040	4 500	5 720	117.41	27.11
Nickel	(t)	131 693	164 406	175 174	193 199	204 207	55.06	5.70
Total	(t)	134 324	167 486	179 214	197 699	209 927		

NEW ZEALAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	1 389 000	1 830 850	1 882 310	1 852 360	2 027 560	45.97	9.46
Aluminium	(t)	326 963	324 835	328 269	335 292	338 556	3.55	0.97
Gold	(kg)	10 049	12 468	11 989	12 687	9 866	-1.82	-22.24
Silver	(kg)	5 630	11 223	15 811	12 498	7 960	41.39	-36.31

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Bentonite	(t)	2 263	762	1 000	700	700	-69.07	0.00
Diatomite	(t)	0	4	43 624	0	0	.	.
Kaolin	(t)	11 578	13 066	61 382	13 659	61 650	432.48	351.35
Perlite	(t)	3 598	0	0	0	0	-100.00	.
Salt	(t)	76 000	60 000	65 000	101 000	100 000	31.58	-0.99
Steam Coal	(t)	2 526 000	2 184 000	1 901 000	1 732 000	1 359 000	-46.20	-21.54
Coking Coal	(t)	2 075 000	2 152 000	1 760 000	1 333 000	1 213 000	-41.54	-9.00
Lignite	(t)	325 900	290 400	316 692	324 086	313 035	-3.95	-3.41
Nat. Gas (Mio m³)		4 277	4 526	5 016	4 596	4 878	14.05	6.14
Petroleum	(t)	1 866 600	1 605 500	1 788 300	1 869 700	1 584 650	-15.11	-15.25
Total	(t)	12 024 518	12 082 240	12 160 405	11 238 622	10 900 569		

NICARAGUA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	6 981	8 611	8 237	7 538	8 314	19.09	10.29
Silver	(kg)	10 207	13 745	13 593	18 049	21 203	107.73	17.47
Gypsum	(t)	34 886	36 498	46 569	54 581	57 949	66.11	6.17
Salt	(t)	30 000	50 000	55 200	55 000	55 000	83.33	0.00
Total	(t)	64 903	86 521	101 791	109 607	112 978		

NIGER

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	1 677	1 151	732	1 220	999	-40.43	-18.11
Silver	(kg)	329	110	67	100	100	-69.60	0.00
Gypsum	(t)	600	0	0	0	0	-100.00	.
Steam Coal	(t)	235 072	241 792	255 936	221 024	246 631	4.92	11.59
Petroleum	(t)	633 200	886 300	853 400	744 600	820 300	29.55	10.17
Uranium	(t)	5 685	4 994	4 901	4 852	4 101	-27.86	-15.48
Total	(t)	874 559	1 133 087	1 114 238	970 477	1 071 033		

NIGERIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	29 400	21 000	20 000	20 000	700	-97.62	-96.50
Niobium	(t)	31	30	30	29	26	-16.13	-10.34
Tantalum	(t)	78	75	75	72	66	-15.38	-8.33

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Aluminium	(t)	22 000	2 000	0	0	0	-100.00	.
Lead	(t)	11 300	11 500	11 400	16 000	14 500	28.32	-9.38
Tin	(t)	2 408	2 516	2 485	2 298	3 443	42.98	49.83
Zinc	(t)	13 800	7 000	7 000	14 200	13 400	-2.90	-5.63
Gold	(kg)	4 303	6 261	7 100	7 000	7 000	62.68	0.00
Baryte	(t)	16 292	18 960	7 113	3 323	3 000	-81.59	-9.72
Feldspar	(t)	9 080	11 000	60 580	25 280	34 144	276.04	35.06
Kaolin	(t)	16 630	20 000	19 200	20 000	24 104	44.94	20.52
Zircon	(t)	894	1 527	1 034	1 825	891	-0.34	-51.18
Steam Coal	(t)	62 410	40 360	127 467	144 880	989 155	1 484.93	582.74
Nat. Gas (Mio m³)		43 290	36 170	45 050	52 700	48 640	12.36	-7.70
Petroleum	(t)	116 319 000	109 187 000	95 410 000	106 050 000	89 588 000	-22.98	-15.52
Total	(t)	151 135 327	138 258 974	131 706 391	148 457 914	129 583 436		

NORWAY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	2 189 200	2 181 300	2 466 600	2 252 200	1 425 000	-34.91	-36.73
Molybdenum	(t)	4	8	2	1	1	-75.00	0.00
Nickel	(t)	400	300	290	300	230	-42.50	-23.33
Titanium	(t)	365 470	363 500	380 010	277 340	260 000	-28.86	-6.25
Aluminium	(t)	1 110 900	1 172 900	1 182 000	1 227 787	1 247 000	12.25	1.56
Cadmium	(t)	310	310	320	310	335	8.06	8.06
Feldspar	(t)	0	0	1 278	76	0	.	-100.00
Graphite	(t)	6 992	6 207	8 308	9 185	10 000	43.02	8.87
Gypsum	(t)	85 296	77 009	79 740	77 403	82 386	-3.41	6.44
Sulfur	(t)	110 000	130 000	130 000	110 000	110 000	0.00	0.00
Talc	(t)	7 983	0	0	0	0	-100.00	.
Steam Coal	(t)	1 325 655	2 067 522	1 701 077	1 203 382	960 341	-27.56	-20.20
Nat. Gas (Mio m³)		114 723	108 746	108 824	117 117	116 654	1.68	-0.40
Petroleum	(t)	88 482 600	84 299 800	86 345 200	88 922 200	91 345 400	3.24	2.73
Total	(t)	185 463 210	177 295 656	179 354 025	187 773 784	188 763 893		

OMAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	221 920	317 000	300 480	179 680	187 480	-15.52	4.34
Manganese	(t)	9 380	12 850	9 380	3 950	2 950	-68.55	-25.32
Aluminium	(t)	360 000	354 000	364 000	377 186	386 395	7.33	2.44
Copper	(t)	21 760	12 050	15 140	8 650	0	-100.00	-100.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Gold	(kg)	19	0	0	0	0	-100.00	.
Silver	(kg)	486	0	0	0	0	-100.00	.
Gypsum	(t)	1 915 300	2 812 600	3 387 300	6 251 900	7 857 600	310.25	25.68
Kaolin	(t)	139 500	114 700	66 600	169 500	188 300	34.98	11.09
Salt	(t)	12 800	11 800	12 900	12 600	12 100	-5.47	-3.97
Sulfur	(t)	53 490	32 800	41 950	43 295	35 560	-33.52	-17.87
Nat. Gas (Mio m³)		34 095	34 718	33 207	34 668	35 401	3.83	2.11
Petroleum	(t)	45 857 700	46 894 300	46 972 000	48 844 500	50 135 200	9.33	2.64
Total	(t)	75 867 850	78 336 500	77 735 350	83 625 661	87 126 385		

PAKISTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	146 260	156 600	74 890	124 990	164 220	12.28	31.39
Chromium	(t)	71 680	54 580	34 230	40 700	27 730	-61.31	-31.87
Antimony	(t)	12	89	979	114	21	75.00	-81.58
Bauxite	(t)	30 223	25 288	31 156	24 689	57 024	88.68	130.97
Copper	(t)	19 229	13 500	13 122	13 056	14 136	-26.49	8.27
Lead	(t)	600	120	1 195	136	1 196	99.33	779.41
Zinc	(t)	10 024	0	0	0	7 700	-23.18	.
Baryte	(t)	48 510	118 471	133 658	118 773	157 858	225.41	32.91
Bentonite	(t)	16 520	26 077	40 374	23 283	42 038	154.47	80.55
Feldspar	(t)	53 235	38 218	92 672	38 568	316 289	494.14	720.08
Fluorspar	(t)	6 859	13 344	7 500	5 960	9 494	38.42	59.30
Gypsum	(t)	1 260 021	1 249 967	1 326 437	1 417 007	1 871 716	48.55	32.09
Kaolin	(t)	22 000	22 917	16 191	18 956	21 683	-1.44	14.39
Magnesite	(t)	5 544	6 705	3 770	4 581	35 228	535.43	669.00
Phosphates	(t)	12 490	18 890	18 350	15 230	20 730	65.97	36.11
Salt	(t)	2 135 760	2 159 939	2 530 507	2 404 116	3 867 325	81.07	60.86
Sulfur	(t)	25 560	20 610	35 672	19 730	14 869	-41.83	-24.64
Talc	(t)	55 515	93 214	89 022	116 223	125 985	126.94	8.40
Steam Coal	(t)	3 178 986	2 813 079	3 340 192	3 407 659	3 749 312	17.94	10.03
Nat. Gas (Mio m³)		44 150	42 646	42 302	41 511	41 958	-4.96	1.08
Petroleum	(t)	3 233 300	3 663 100	4 155 885	4 627 053	4 246 335	31.33	-8.23
Uranium	(t)	53	48	53	53	53	0.00	0.00
Total	(t)	45 652 381	44 611 556	45 787 455	45 629 677	48 317 342		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

PANAMA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	2 207	1 116	11	0	0	-100.00	.
Salt	(t)	15 596	27 197	25 660	23 267	23 470	50.49	0.87
Total	(t)	15 598	27 198	25 660	23 267	23 470		

PAPUA NEW GUINEA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	3 630	40 500	42 570	45 000	45 000	1 139.67	0.00
Cobalt	(t)	473	1 013	2 134	2 505	2 187	362.37	-12.69
Nickel	(t)	4 758	11 369	20 988	25 582	22 234	367.30	-13.09
Copper	(t)	125 348	105 523	75 901	45 185	80 022	-36.16	77.10
Gold	(kg)	58 640	61 524	56 387	57 848	61 733	5.27	6.72
Silver	(kg)	84 016	89 885	84 379	73 166	92 632	10.26	26.61
Nat. Gas (Mio m³)		149	156	1 639	2 941	3 128	1 999.33	6.36
Petroleum	(t)	1 430 600	1 490 500	2 395 600	2 951 500	2 907 400	103.23	-1.49
Total	(t)	1 684 152	1 773 857	3 848 533	5 422 703	5 559 398		

PARAGUAY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	4 500	4 500	4 500	4 500	4 500	0.00	0.00
Kaolin	(t)	10 000	10 000	10 000	6 000	6 000	-40.00	0.00
Total	(t)	14 500	14 500	14 500	10 500	10 500		

PERU

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	4 545 490	4 542 850	4 890 960	4 978 150	5 210 920	14.64	4.68
Molybdenum	(t)	16 790	18 140	17 018	20 153	25 757	53.41	27.81
Tungsten	(t)	289	28	61	110	0	-100.00	-100.00
Antimony	(t)	0	500	244	250	0	.	-100.00
Bismuth	(t)	5	588	188	0	0	-100.00	.
Cadmium	(t)	684	695	769	757	820	19.88	8.32

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Copper	(t)	1 298 761	1 375 639	1 377 642	1 700 814	2 353 859	81.24	38.40
Lead	(t)	249 236	266 472	277 294	315 784	314 174	26.05	-0.51
Selenium	(t)	42	50	40	40	45	7.14	12.50
Tellurium	(t)	0	22	9	0	0	.	.
Tin	(t)	26 105	23 668	23 105	19 511	18 789	-28.03	-3.70
Zinc	(t)	1 281 282	1 351 273	1 315 475	1 421 523	1 336 835	4.34	-5.96
Gold	(kg)	161 545	156 257	140 097	146 823	153 006	-5.29	4.21
Silver	(kg)	3 480 857	3 674 283	3 768 147	4 101 568	4 374 356	25.67	6.65
Baryte	(t)	79 451	53 139	106 071	28 407	7 953	-89.99	-72.00
Bentonite	(t)	22 977	47 744	37 375	21 341	19 246	-16.24	-9.82
Boron	(t)	104 072	224 454	239 725	578 910	33 792	-67.53	-94.16
Diatomite	(t)	93 996	124 917	151 398	120 672	107 265	14.12	-11.11
Feldspar	(t)	26 359	22 695	18 019	16 979	16 630	-36.91	-2.06
Gypsum	(t)	390 705	297 727	543 856	438 025	257 423	-34.11	-41.23
Kaolin	(t)	34 586	32 249	19 964	43 251	19 262	-44.31	-55.46
Phosphates	(t)	3 931 450	5 640 080	4 136 020	4 241 420	4 013 220	2.08	-5.38
Salt	(t)	1 242 765	1 205 435	1 175 157	1 471 131	1 450 415	16.71	-1.41
Sulfur	(t)	503 900	561 900	533 800	565 500	543 700	7.90	-3.85
Talc	(t)	61 958	64 577	46 706	52 967	29 379	-52.58	-44.53
Steam Coal	(t)	226 908	211 885	229 213	251 788	266 236	17.33	5.74
Nat. Gas (Mio m³)		11 859	12 192	12 924	12 495	14 001	18.06	12.05
Petroleum	(t)	7 637 200	8 339 900	8 599 600	7 438 300	6 744 300	-11.69	-9.33
Total	(t)	31 265 854	34 164 057	34 082 817	33 726 032	33 975 347		

PHILIPPINES

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	688 900	634 000	92 300	64 300	3 900	-99.43	-93.93
Chromium	(t)	14 651	14 110	18 820	6 200	10 300	-29.70	66.13
Cobalt	(t)	2 269	2 126	4 094	4 140	4 000	76.29	-3.38
Nickel	(t)	317 621	313 050	443 909	466 754	341 673	7.57	-26.80
Arsenic	(t)	400	0	0	0	0	-100.00	.
Copper	(t)	65 444	90 861	91 922	83 835	83 649	27.82	-0.22
Selenium	(t)	70	70	70	70	90	28.57	28.57
Zinc	(t)	19 559	16 730	0	0	0	-100.00	.
Gold	(kg)	14 596	17 248	18 423	20 643	22 674	55.34	9.84
Silver	(kg)	49 211	40 043	23 005	29 780	34 216	-30.47	14.90
Bentonite	(t)	2 700	3 330	3 370	3 480	3 230	19.63	-7.18
Feldspar	(t)	24 969	30 388	34 232	35 000	35 000	40.17	0.00
Kaolin	(t)	4 631	6 568	7 050	7 000	8 000	72.75	14.29
Magnesite	(t)	4 822	5 998	6 200	6 200	6 200	28.58	0.00
Perlite	(t)	9 221	14 249	17 134	17 000	17 000	84.36	0.00
Phosphates	(t)	3 283	3 887	4 340	4 500	4 500	37.07	0.00
Salt	(t)	774 820	992 640	1 050 000	1 000 000	1 238 610	59.86	23.86
Sulfur	(t)	39 300	25 500	84 800	1 026 400	1 134 400	2 786.51	10.52

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	7 853 530	7 564 790	8 420 000	8 170 000	12 087 000	53.91	47.94
Nat. Gas (Mio m³)		3 810	3 510	3 691	3 470	3 980	4.46	14.70
Petroleum	(t)	929 000	814 000	988 200	841 600	827 100	-10.97	-1.72
Total	(t)	13 803 254	13 340 354	14 219 282	14 512 530	18 988 709		

POLAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nickel	(t)	840	570	780	840	770	-8.33	-8.33
Cadmium	(t)	370	460	628	383	200	-45.95	-47.78
Copper	(t)	427 064	428 879	421 285	425 870	424 276	-0.65	-0.37
Lead	(t)	73 231	78 980	83 150	49 000	43 060	-41.20	-12.12
Rhenium	(kg)	2 770	5 210	5 335	6 346	6 443	132.60	1.53
Selenium	(t)	90	80	90	87	82	-8.89	-5.75
Zinc	(t)	76 700	77 000	70 000	65 000	61 000	-20.47	-6.15
Gold	(kg)	469	431	226	431	402	-14.29	-6.73
Palladium	(kg)	23	30	25	20	30	30.43	50.00
Platinum	(kg)	39	51	40	40	50	28.21	25.00
Silver	(kg)	1 149 000	1 199 029	1 186 014	1 209 094	1 264 659	10.07	4.60
Bentonite	(t)	780	1 050	650	450	1 000	28.21	122.22
Diatomite	(t)		600	590	600	500	.	-16.67
Feldspar	(t)	487 000	513 000	68 910	76 540	88 140	-81.90	15.16
Gypsum	(t)	1 227 900	1 084 560	1 052 470	1 018 450	1 043 000	-15.06	2.41
Kaolin	(t)	249 090	267 730	277 900	286 650	299 830	20.37	4.60
Magnesite	(t)	84 000	97 000	92 000	96 000	77 920	-7.24	-18.83
Salt	(t)	3 524 700	4 056 000	4 265 085	3 468 000	4 079 000	15.73	17.62
Sulfur	(t)	962 200	833 900	629 620	651 420	645 000	-32.97	-0.99
Steam Coal	(t)	68 117 000	64 601 000	60 252 000	59 191 000	57 213 000	-16.01	-3.34
Coking Coal	(t)	11 738 000	12 116 000	12 288 000	12 985 000	13 082 000	11.45	0.75
Lignite	(t)	64 280 000	65 849 000	64 002 000	63 135 000	60 273 000	-6.23	-4.53
Nat. Gas (Mio m³)		5 871	5 886	5 258	5 214	5 073	-13.59	-2.70
Petroleum	(t)	680 000	962 000	918 750	898 870	957 050	40.74	6.47
Total	(t)	156 626 917	155 677 813	148 631 499	146 521 575	142 348 499		

PORTUGAL

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Tungsten	(t)	763	692	671	474	685	-10.22	44.51
Copper	(t)	74 941	77 236	75 433	83 081	75 861	1.23	-8.69
Lead	(t)	87	1 496	3 191	3 077	4 246	4 780.46	37.99
Lithium	(t)	246	237	208	204	314	27.64	53.92
Tin	(t)	41	84	75	42	55	34.15	30.95
Zinc	(t)	30 006	53 382	67 384	66 871	69 527	131.71	3.97

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Silver	(kg)	29 890	40 621	43 172	41 337	38 631	29.24	-6.55
Feldspar	(t)	109 273	70 057	70 865	93 789	118 878	8.79	26.75
Gypsum	(t)	264 427	299 038	328 730	309 966	310 000	17.23	0.01
Kaolin	(t)	321 039	248 008	269 073	247 482	261 912	-18.42	5.83
Salt	(t)	520 284	473 095	69 702	30 008	15 348	-97.05	-48.85
Talc	(t)	15 131	11 348	14 942	11 204	11 699	-22.68	4.42
Total	(t)	1 336 268	1 234 714	900 317	846 239	868 564		

QATAR

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	604 000	606 000	612 000	610 000	612 000	1.32	0.33
Sulfur	(t)	1 844 000	2 000 000	2 136 000	2 299 700	2 068 000	12.15	-10.08
Nat. Gas (Mio m³)		157 050	177 600	174 060	178 470	181 250	15.41	1.56
Petroleum	(t)	82 206 000	80 286 150	79 436 400	79 115 200	79 443 000	-3.36	0.41
Total	(t)	210 294 000	224 972 150	221 432 400	224 800 900	227 123 000		

ROMANIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	1 910	1 390	4 880	4 200	1 550	-18.85	-63.10
Aluminium	(t)	248 587	250 157	263 098	271 356	272 507	9.62	0.42
Copper	(t)	9 482	6 700	7 680	7 710	8 390	-11.52	8.82
Lead	(t)	5 500	800	570	200	120	-97.82	-40.00
Zinc	(t)	8 400	2 000	3 120	2 900	1 500	-82.14	-48.28
Gold	(kg)	500	500	500	500	500	0.00	0.00
Silver	(kg)	18 000	18 000	18 000	18 000	18 000	0.00	0.00
Bentonite	(t)	19 241	24 127	18 583	19 355	20 000	3.94	3.33
Feldspar	(t)	4 112	7 060	7 570	13 244	13 000	216.15	-1.84
Graphite	(t)	7 000	0	0	0	0	-100.00	.
Gypsum	(t)	879 000	736 100	815 586	888 746	890 000	1.25	0.14
Kaolin	(t)	116	32 722	30 638	31 000	31 000	26 624.14	0.00
Salt	(t)	2 338 749	2 397 398	2 058 292	2 180 000	2 100 000	-10.21	-3.67
Talc	(t)	13	0	0	0	0	-100.00	.
Steam Coal	(t)	43 000	47 000	80 000	10 000	47 000	9.30	370.00
Lignite	(t)	33 949 000	24 732 000	23 565 000	25 492 000	22 980 000	-32.31	-9.85
Nat. Gas (Mio m³)		10 935	10 854	11 056	11 092	9 811	-10.28	-11.55
Petroleum	(t)	3 982 000	4 131 000	4 052 000	4 003 000	3 801 000	-4.55	-5.05
Uranium	(t)	106	94	91	91	59	-44.34	-35.16
Total	(t)	50 244 235	41 051 767	39 751 927	41 797 421	38 014 945		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

RUSSIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	57 200 000	56 100 000	56 155 000	55 550 000	55 550 000	-2.88	0.00
Chromium	(t)	206 600	147 200	214 200	216 000	180 000	-12.88	-16.67
Cobalt	(t)	2 186	2 368	2 302	2 100	2 100	-3.93	0.00
Manganese	(t)	4 500	5 000	0	0	0	-100.00	.
Molybdenum	(t)	4 838	3 605	3 114	3 240	3 200	-33.86	-1.23
Nickel	(t)	254 100	264 000	264 000	261 000	222 000	-12.63	-14.94
Niobium	(t)	450	511	581	628	628	39.56	0.00
Tantalum	(t)	31	32	40	32	49	58.06	53.13
Titanium	(t)	179 000	179 000	180 000	190 000	150 000	-16.20	-21.05
Tungsten	(t)	4 281	4 191	3 775	3 300	3 100	-27.59	-6.06
Vanadium	(t)	14 856	14 403	15 125	16 196	16 886	13.66	4.26
Aluminium	(t)	4 024 000	3 724 000	3 488 000	3 529 000	3 561 000	-11.51	0.91
Antimony	(t)	6 400	6 520	6 400	7 420	6 620	3.44	-10.78
Arsenic	(t)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Bauxite	(t)	5 166 000	5 634 000	6 056 000	5 800 000	5 918 000	14.56	2.03
Bismuth	(t)	50	40	40	40	30	-40.00	-25.00
Cadmium	(t)	1 000	900	1 000	1 186	1 100	10.00	-7.25
Copper	(t)	638 000	655 000	691 500	698 000	686 000	7.52	-1.72
Gallium	(t)	6	6	4	4	4	-33.33	0.00
Germanium	(t)	5	5	6	6	6	20.00	0.00
Lead	(t)	151 000	165 000	196 000	180 000	193 000	27.81	7.22
Mercury	(t)	50	50	50	50	50	0.00	0.00
Rare Earths	(t)	2 131	1 443	2 134	2 312	3 063	43.74	32.48
Rhenium	(kg)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Selenium	(t)	145	150	170	180	185	27.59	2.78
Tellurium	(t)	30	31	33	35	40	33.33	14.29
Tin	(t)	152	156	321	578	627	312.50	8.48
Zinc	(t)	191 500	211 400	193 900	206 000	282 000	47.26	36.89
Gold	(kg)	199 800	214 700	249 065	255 200	262 380	31.32	2.81
Palladium	(kg)	81 710	78 630	80 530	75 710	86 250	5.56	13.92
Platinum	(kg)	24 910	22 900	21 770	20 839	21 860	-12.24	4.90
Rhodium	(kg)	2 799	2 488	2 488	2 488	2 644	-5.54	6.27
Silver	(kg)	1 425 000	1 427 651	1 433 871	1 580 058	1 449 423	1.71	-8.27
Asbestos	(t)	1 000 000	811 000	733 068	647 690	713 675	-28.63	10.19
Baryte	(t)	63 000	170 000	215 000	210 000	434 000	588.89	106.67
Bentonite	(t)	500 000	680 000	680 000	680 000	680 000	36.00	0.00
Boron	(t)	75 000	76 199	81 234	82 000	80 000	6.67	-2.44
Diam. (Gem)	(ct)	20 956 590	22 731 084	22 982 100	25 147 434	24 430 920	16.58	-2.85
Diam. (Ind)	(ct)	13 971 060	15 154 056	15 321 400	16 764 956	16 287 280	16.58	-2.85
Feldspar	(t)	160 000	221 500	208 000	205 000	205 000	28.13	0.00
Fluorspar	(t)	129 000	56 200	8 200	8 000	8 000	-93.80	0.00
Graphite	(t)	14 000	14 000	15 000	15 000	19 000	35.71	26.67
Gypsum	(t)	4 179 000	4 223 000	4 419 000	4 223 000	4 200 000	0.50	-0.54
Kaolin	(t)	50 000	50 000	45 000	50 000	50 000	0.00	0.00
Magnesite	(t)	1 400 000	1 400 000	1 400 000	1 300 000	1 188 900	-15.08	-8.55
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	3 900 000	4 095 000	4 732 000	4 524 000	4 836 000	24.00	6.90
Potash	(t)	5 507 000	6 048 000	7 260 000	6 840 000	6 480 000	17.67	-5.26
Salt	(t)	3 187 000	3 008 000	4 338 000	4 377 000	4 520 000	41.83	3.27

Total Prod.: different units (m³, ct, kg) converted to metr. t

Abbreviations: see Explanation

DATA

Sulfur	(t)	6 750 000	6 800 000	7 300 000	6 720 000	6 960 000	3.11	3.57
Talc	(t)	160 000	160 000	150 000	150 000	150 000	-6.25	0.00
Vermiculite	(t)	21 800	20 900	21 000	21 000	20 000	-8.26	-4.76
Zircon	(t)	7 969	8 504	7 930	8 180	7 704	-3.33	-5.82
Steam Coal	(t)	206 200 000	204 900 000	211 800 000	215 500 000	226 526 100	9.86	5.12
Coking Coal	(t)	72 700 000	74 400 000	76 300 000	82 900 000	83 800 000	15.27	1.09
Lignite	(t)	78 100 000	73 700 000	68 900 000	73 600 000	73 500 000	-5.89	-0.14
Nat. Gas (Mio m³)		654 500	668 200	641 900	635 500	641 000	-2.06	0.87
Petroleum	(t)	518 100 000	523 300 000	526 650 000	533 551 300	547 306 140	5.64	2.58
Uranium	(t)	3 387	3 697	3 526	3 602	3 543	4.61	-1.64
Total	(t)	1 493 906 712	1 505 873 267	1 496 308 949	1 510 731 523	1 541 316 081		

RUSSIA, ASIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	9 724 000	9 537 000	9 546 350	9 443 500	9 443 500	-2.88	0.00
Cobalt	(t)	1 749	1 894	1 842	1 680	1 680	-3.95	0.00
Manganese	(t)	900	1 000	0	0	0	-100.00	.
Molybdenum	(t)	4 838	3 605	3 114	3 240	3 200	-33.86	-1.23
Nickel	(t)	147 378	155 760	158 400	135 900	90 760	-38.42	-33.22
Tungsten	(t)	3 639	3 562	3 209	2 805	2 635	-27.59	-6.06
Aluminium	(t)	3 535 000	3 436 000	3 412 000	3 451 000	3 480 000	-1.56	0.84
Antimony	(t)	6 400	6 520	6 400	7 420	6 620	3.44	-10.78
Arsenic	(t)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Bismuth	(t)	50	40	40	40	30	-40.00	-25.00
Cadmium	(t)	1 000	900	1 000	1 186	1 100	10.00	-7.25
Copper	(t)	446 600	458 500	484 050	488 600	480 200	7.52	-1.72
Germanium	(t)	5	5	6	6	6	20.00	0.00
Lead	(t)	144 960	158 400	188 160	172 800	185 280	27.81	7.22
Mercury	(t)	50	50	50	50	50	0.00	0.00
Selenium	(t)	145	150	170	180	185	27.59	2.78
Tellurium	(t)	30	31	33	35	40	33.33	14.29
Tin	(t)	152	156	321	578	627	312.50	8.48
Zinc	(t)	168 520	186 030	170 630	181 280	248 160	47.26	36.89
Gold	(kg)	185 814	199 670	231 630	237 340	244 010	31.32	2.81
Palladium	(kg)	61 830	60 780	62 020	54 840	59 780	-3.32	9.01
Platinum	(kg)	20 840	19 070	17 820	16 671	16 480	-20.92	-1.15
Rhodium	(kg)	2 799	2 488	2 488	2 488	2 644	-5.54	6.27
Silver	(kg)	1 282 500	1 284 886	1 290 484	1 422 052	1 304 481	1.71	-8.27
Asbestos	(t)	500 000	405 500	366 534	323 845	310 000	-38.00	-4.28
Baryte	(t)	56 700	153 000	193 500	189 000	390 600	588.89	106.67
Bentonite	(t)	100 000	136 000	136 000	136 000	136 000	36.00	0.00
Boron	(t)	75 000	76 199	81 234	82 000	80 000	6.67	-2.44
Diam. (Gem)	(ct)	20 317 020	21 767 400	20 744 160	21 786 180	21 084 120	3.78	-3.22
Diam. (Ind)	(ct)	13 544 680	14 511 600	13 829 440	14 524 120	14 056 080	3.78	-3.22
Feldspar	(t)	96 000	132 900	124 800	123 000	123 000	28.13	0.00
Fluorspar	(t)	116 100	50 580	7 380	7 200	7 200	-93.80	0.00
Talc	(t)	80 000	80 000	75 000	75 000	75 000	-6.25	0.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	206 200 000	204 900 000	211 800 000	215 500 000	226 526 100	9.86	5.12
Coking Coal	(t)	72 700 000	74 400 000	76 300 000	82 900 000	83 800 000	15.27	1.09
Lignite	(t)	70 290 000	66 330 000	62 010 000	66 240 000	66 150 000	-5.89	-0.14
Nat. Gas (Mio m³)		621 775	634 790	609 805	603 725	608 950	-2.06	0.87
Petroleum	(t)	341 946 000	345 378 000	347 589 000	352 143 860	361 222 050	5.64	2.58
Uranium	(t)	3 387	3 697	3 526	3 602	3 543	4.61	-1.64
Total	(t)	1 203 771 665	1 213 830 553	1 200 509 860	1 214 597 047	1 239 930 700		

RUSSIA, EUROPE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	47 476 000	46 563 000	46 608 650	46 106 500	46 106 500	-2.88	0.00
Chromium	(t)	206 600	147 200	214 200	216 000	180 000	-12.88	-16.67
Cobalt	(t)	437	474	460	420	420	-3.89	0.00
Manganese	(t)	3 600	4 000	0	0	0	-100.00	.
Nickel	(t)	106 722	108 240	105 600	125 100	131 240	22.97	4.91
Niobium	(t)	450	511	581	628	628	39.56	0.00
Tantalum	(t)	31	32	40	32	49	58.06	53.13
Titanium	(t)	179 000	179 000	180 000	190 000	150 000	-16.20	-21.05
Tungsten	(t)	642	629	566	495	465	-27.57	-6.06
Vanadium	(t)	14 856	14 403	15 125	16 196	16 886	13.66	4.26
Aluminium	(t)	489 000	288 000	76 000	78 000	81 000	-83.44	3.85
Bauxite	(t)	5 166 000	5 634 000	6 056 000	5 800 000	5 918 000	14.56	2.03
Copper	(t)	191 400	196 500	207 450	209 400	205 800	7.52	-1.72
Gallium	(t)	6	6	4	4	4	-33.33	0.00
Lead	(t)	6 040	6 600	7 840	7 200	7 720	27.81	7.22
Rare Earths	(t)	2 131	1 443	2 134	2 312	3 063	43.74	32.48
Rhenium	(kg)	1 500	1 500	1 500	1 500	1 500	0.00	0.00
Zinc	(t)	22 980	25 370	23 270	24 720	33 840	47.26	36.89
Gold	(kg)	13 986	15 030	17 435	17 860	18 370	31.35	2.86
Palladium	(kg)	19 880	17 850	18 510	20 870	26 470	33.15	26.83
Platinum	(kg)	4 070	3 830	3 950	4 168	5 380	32.19	29.08
Silver	(kg)	142 500	142 765	143 387	158 006	144 942	1.71	-8.27
Asbestos	(t)	500 000	405 500	366 534	323 845	403 675	-19.27	24.65
Baryte	(t)	6 300	17 000	21 500	21 000	43 400	588.89	106.67
Bentonite	(t)	400 000	544 000	544 000	544 000	544 000	36.00	0.00
Diam. (Gem)	(ct)	639 570	963 684	2 237 940	3 361 254	3 346 800	423.29	-0.43
Diam. (Ind)	(ct)	426 380	642 456	1 491 960	2 240 836	2 231 200	423.29	-0.43
Feldspar	(t)	64 000	88 600	83 200	82 000	82 000	28.13	0.00
Fluorspar	(t)	12 900	5 620	820	800	800	-93.80	0.00
Graphite	(t)	14 000	14 000	15 000	15 000	19 000	35.71	26.67
Gypsum	(t)	4 179 000	4 223 000	4 419 000	4 223 000	4 200 000	0.50	-0.54
Kaolin	(t)	50 000	50 000	45 000	50 000	50 000	0.00	0.00
Magnesite	(t)	1 400 000	1 400 000	1 400 000	1 300 000	1 188 900	-15.08	-8.55
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	3 900 000	4 095 000	4 732 000	4 524 000	4 836 000	24.00	6.90
Potash	(t)	5 507 000	6 048 000	7 260 000	6 840 000	6 480 000	17.67	-5.26
Salt	(t)	3 187 000	3 008 000	4 338 000	4 377 000	4 520 000	41.83	3.27
Sulfur	(t)	6 750 000	6 800 000	7 300 000	6 720 000	6 960 000	3.11	3.57

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Talc	(t)	80 000	80 000	75 000	75 000	75 000	-6.25	0.00
Vermiculite	(t)	21 800	20 900	21 000	21 000	20 000	-8.26	-4.76
Zircon	(t)	7 969	8 504	7 930	8 180	7 704	-3.33	-5.82
Lignite	(t)	7 810 000	7 370 000	6 890 000	7 360 000	7 350 000	-5.89	-0.14
Nat. Gas (Mio m³)		32 725	33 410	32 095	31 775	32 050	-2.06	0.87
Petroleum	(t)	176 154 000	177 922 000	179 061 000	181 407 440	186 084 090	5.64	2.58
Total	(t)	290 135 047	292 042 714	295 799 089	296 134 476	301 385 381		

RWANDA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Niobium	(t)	172	370	345	248	190	10.47	-23.39
Tantalum	(t)	263	567	530	380	290	10.27	-23.68
Tungsten	(t)	1 041	1 319	1 288	1 060	1 020	-2.02	-3.77
Tin	(t)	3 339	3 524	4 270	2 770	2 560	-23.33	-7.58
Gold	(kg)	0	0	203	800	1 980	.	147.50
Total	(t)	4 815	5 780	6 433	4 459	4 062		

SAUDI ARABIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	355 300	231 800	243 400	254 900	254 200	-28.45	-0.27
Aluminium	(t)	0	187 000	662 000	839 000	869 000	.	3.58
Bauxite	(t)	760 114	1 978 360	2 076 000	2 174 000	3 168 000	316.78	45.72
Copper	(t)	17 639	20 380	43 390	56 126	46 253	162.22	-17.59
Lead	(t)	400	0	0	0	0	-100.00	.
Zinc	(t)	21 213	26 293	41 804	37 513	39 008	83.89	3.99
Gold	(kg)	4 286	4 158	4 789	5 089	7 010	63.56	37.75
Silver	(kg)	5 500	4 158	4 888	5 530	4 500	-18.18	-18.63
Baryte	(t)	32 000	30 000	32 000	43 000	0	-100.00	-100.00
Feldspar	(t)	227 000	160 000	168 000	176 000	188 000	-17.18	6.82
Gypsum	(t)	1 700 000	1 700 000	1 780 000	1 860 000	3 000 000	76.47	61.29
Kaolin	(t)	137 000	101 000	106 000	147 321	196 000	43.07	33.04
Magnesite	(t)	39 000	63 400	71 000	77 000	100 000	156.41	29.87
Phosphates	(t)	306 600	364 000	382 200	1 015 100	1 080 000	252.25	6.39
Salt	(t)	1 611 000	1 900 000	1 990 000	2 080 000	2 000 000	24.15	-3.85
Sulfur	(t)	3 400 000	3 900 000	4 400 000	4 900 000	4 900 000	44.12	0.00
Talc	(t)	8 000	6 000	7 000	8 000	42 000	425.00	425.00
Nat. Gas (Mio m³)		99 330	100 030	102 380	104 450	110 860	11.61	6.14
Petroleum	(t)	549 834 000	538 426 000	543 441 000	567 750 600	585 699 600	6.52	3.16
Total	(t)	637 913 276	629 118 241	637 347 804	664 978 571	690 270 073		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

SENEGAL

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Manganese	(t)	0	230	2 120	3 000	3 000	.	0.00
Titanium	(t)		0	55 950	240 270	238 120	.	-0.89
Gold	(kg)	6 666	6 445	6 588	5 779	6 741	1.13	16.65
Silver	(kg)	670	850	1 150	540	640	-4.48	18.52
Phosphates	(t)	500 350	342 120	309 820	589 110	886 500	77.18	50.48
Salt	(t)	237 385	238 888	249 224	268 176	263 218	10.88	-1.85
Zircon	(t)		0	9 040	45 248	52 627	.	16.31
Nat. Gas (Mio m³)		39	41	35	23	21	-46.15	-8.70
Petroleum	(t)	7 700	15 800	30 100	22 900	3 320	-56.88	-85.50
Total	(t)	776 643	629 845	684 262	1 187 111	1 463 593		

SERBIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Copper	(t)	32 200	32 609	31 584	31 601	34 625	7.53	9.57
Lead	(t)	2 500	3 100	3 730	2 420	2 450	-2.00	1.24
Selenium	(t)	13	16	17	17	18	38.46	5.88
Zinc	(t)	6 000	5 800	7 180	4 670	4 700	-21.67	0.64
Gold	(kg)	900	1 154	1 310	1 186	805	-10.56	-32.12
Palladium	(kg)	22	25	23	22	23	4.55	4.55
Platinum	(kg)	3	2	3	2	3	0.00	50.00
Silver	(kg)	8 400	5 800	8 586	7 488	11 345	35.06	51.51
Feldspar	(t)	19 927	20 000	20 000	20 000	20 000	0.37	0.00
Kaolin	(t)	69 487	70 000	90 000	110 000	110 000	58.30	0.00
Magnesite	(t)	20 000	24 000	24 000	20 000	25 000	25.00	25.00
Salt	(t)	16 506	13 704	12 994	13 202	9 149	-44.57	-30.70
Lignite	(t)	37 930 437	39 513 474	29 204 294	37 029 091	37 652 520	-0.73	1.68
Nat. Gas (Mio m³)		484	468	467	432	399	-17.56	-7.64
Petroleum	(t)	1 124 794	1 234 000	1 310 000	1 050 000	960 000	-14.65	-8.57
Total	(t)	39 609 073	41 291 110	31 077 409	38 626 609	39 137 674		

SIERRA LEONE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	3 018 024	6 172 710	10 259 610	1 521 830	3 814 410	26.39	150.65
Titanium	(t)	101 539	133 887	129 040	140 420	156 570	54.20	11.50

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Bauxite	(t)	734 483	654 137	1 161 705	1 334 046	1 368 531	86.33	2.58
Gold	(kg)	141	96	43	106	188	33.33	77.36
Diam. (Gem)	(ct)	409 524	308 608	503 942	420 158	417 952	2.06	-0.53
Diam. (Ind)	(ct)	123 031	296 132	90 426	79 881	131 550	6.92	64.68
Zircon	(t)	612	2 950	2 416	1 389	1 000	63.40	-28.01
Total	(t)	3 854 658	6 963 684	11 552 771	2 997 685	5 340 511		

SLOVAKIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	160 662	163 296	167 667	171 328	173 643	8.08	1.35
Copper	(t)	31	40	46	58	0	-100.00	-100.00
Lead	(t)	166	235	162	160	200	20.48	25.00
Zinc	(t)	134	190	176	170	200	49.25	17.65
Gold	(kg)	546	533	582	603	466	-14.65	-22.72
Silver	(kg)	441	508	437	532	391	-11.34	-26.50
Baryte	(t)	21 000	21 000	20 900	20 000	23 000	9.52	15.00
Bentonite	(t)	146 800	197 600	214 000	230 000	155 000	5.59	-32.61
Gypsum	(t)	138 000	56 000	67 900	65 700	52 300	-62.10	-20.40
Kaolin	(t)	3 000	6 000	5 900	5 900	11 923	297.43	102.08
Magnesite	(t)	1 008 460	933 200	887 500	878 400	683 400	-32.23	-22.20
Perlite	(t)	24 000	16 000	17 000	25 000	25 000	4.17	0.00
Talc	(t)	2 000	2 000	3 300	1 400	800	-60.00	-42.86
Lignite	(t)	2 093 800	2 275 330	2 078 960	1 941 007	1 956 510	-6.56	0.80
Nat. Gas (Mio m ³)		98	100	91	91	93	-5.10	2.20
Petroleum	(t)	15 200	13 310	11 740	12 010	9 490	-37.57	-20.98
Total	(t)	3 691 654	3 764 203	3 548 052	3 423 935	3 165 866		

SLOVENIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	83 278	84 035	84 361	83 775	84 365	1.31	0.70
Bentonite	(t)	98	143	199	232	182	85.71	-21.55
Salt	(t)	5 684	3 360	0	2 191	2 417	-57.48	10.31
Lignite	(t)	4 281 326	3 721 188	3 108 203	3 168 001	3 348 889	-21.78	5.71
Nat. Gas (Mio m ³)		2	3	3	3	4	100.00	33.33
Petroleum	(t)	339	412	461	359	379	11.80	5.57
Total	(t)	4 372 325	3 811 538	3 195 624	3 256 958	3 439 432		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

SOLOMON ISLANDS

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)		0	40	278 400	234 500	.	-15.77
Gold	(kg)	2 109	1 945	531	0	0	-100.00	.
Silver	(kg)	902	735	271	0	0	-100.00	.
Total	(t)	3	3	41	278 400	234 500		

SOMALIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	1 500	1 500	1 500	0	0	-100.00	.
Total	(t)	1 500	1 500	1 500	0	0		

SOUTH AFRICA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	43 615 310	46 569 090	52 493 570	47 323 600	43 196 310	-0.96	-8.72
Chromium	(t)	4 979 650	6 023 450	6 176 600	6 888 490	6 471 310	29.96	-6.06
Cobalt	(t)	1 102	1 294	1 332	1 362	1 101	-0.09	-19.16
Manganese	(t)	3 935 100	4 821 140	6 182 550	4 854 840	4 754 560	20.82	-2.07
Nickel	(t)	45 945	51 208	54 956	56 689	48 994	6.64	-13.57
Titanium	(t)	1 120 300	1 056 200	1 195 000	1 150 000	1 200 000	7.11	4.35
Vanadium	(t)	19 957	21 397	21 582	17 455	15 877	-20.44	-9.04
Aluminium	(t)	665 000	822 000	745 000	695 000	701 000	5.41	0.86
Antimony	(t)	3 066	2 405	815	100	1 200	-60.86	1 100.00
Copper	(t)	69 859	80 821	78 697	77 360	65 257	-6.59	-15.65
Lead	(t)	52 489	41 848	29 348	34 573	39 344	-25.04	13.80
Zinc	(t)	37 034	30 145	26 141	29 040	26 695	-27.92	-8.08
Gold	(kg)	155 286	160 016	151 622	144 504	142 162	-8.45	-1.62
Palladium	(kg)	74 738	76 008	58 410	82 691	76 273	2.05	-7.76
Platinum	(kg)	128 590	137 024	93 991	139 125	133 241	3.62	-4.23
Rhodium	(kg)	17 810	18 129	12 916	18 722	19 237	8.01	2.75
Silver	(kg)	67 304	68 777	49 220	51 861	55 622	-17.36	7.25
Bentonite	(t)	120 566	177 187	171 119	165 535	148 742	23.37	-10.14
Diam. (Gem)	(ct)	2 899 971	3 251 483	3 223 527	3 293 220	3 321 830	14.55	0.87
Diam. (Ind)	(ct)	4 349 957	4 877 224	4 835 290	4 939 840	4 982 750	14.55	0.87
Feldspar	(t)	94 458	191 443	102 541	130 184	127 872	35.37	-1.78
Fluorspar	(t)	170 338	157 776	164 054	220 000	180 000	5.67	-18.18
Gypsum	(t)	558 242	559 443	376 223	231 688	257 289	-53.91	11.05
Kaolin	(t)	20 500	22 295	27 258	20 126	21 141	3.13	5.04
Magnesite	(t)	12 878	8 219	10 000	10 000	28 000	117.43	180.00

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Perlite	(t)	1 740	1 078	1 000	1 000	1 000	-42.53	0.00
Phosphates	(t)	784 800	746 100	703 900	648 300	593 800	-24.34	-8.41
Salt	(t)	399 135	477 038	493 798	517 159	487 569	22.16	-5.72
Sulfur	(t)	257 019	270 173	277 018	284 381	280 830	9.26	-1.25
Talc	(t)	23 499	22 303	27 327	21 849	23 576	0.33	7.90
Vermiculite	(t)	132 886	127 658	143 007	138 290	166 483	25.28	20.39
Zircon	(t)	367 190	224 446	398 101	397 420	370 540	0.91	-6.76
Steam Coal	(t)	257 009 000	252 928 000	257 308 000	255 572 000	253 452 000	-1.38	-0.83
Coking Coal	(t)	1 566 000	3 354 000	3 232 000	2 978 000	3 467 000	121.39	16.42
Nat. Gas (Mio m³)		1 167	824	1 061	1 312	807	-30.85	-38.49
Petroleum	(t)	136 081	80 154	88 803	70 978	38 796	-71.49	-45.34
Uranium	(t)	551	626	668	528	450	-18.33	-14.77
Total	(t)	317 133 741	319 528 599	331 379 576	323 585 987	316 812 764		

SOUTH SUDAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Petroleum	(t)	1 533 200	4 912 400	7 652 300	7 277 200	5 840 050	280.91	-19.75
Total	(t)	1 533 200	4 912 400	7 652 300	7 277 200	5 840 050		

SPAIN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nickel	(t)	2 397	7 564	8 652	7 208	0	-100.00	-100.00
Tungsten	(t)	393	487	822	835	688	75.06	-17.60
Aluminium	(t)	386 400	250 000	230 000	360 000	360 000	-6.83	0.00
Copper	(t)	99 884	102 977	104 476	129 788	182 500	82.71	40.61
Lead	(t)	3 763	2 160	1 223	1 598	4 900	30.22	206.63
Tin	(t)	69	0	0	0	7	-89.86	.
Zinc	(t)	28 634	30 428	26 756	49 216	76 342	166.61	55.12
Gold	(kg)	1 529	1 994	1 942	1 825	1 291	-15.57	-29.26
Silver	(kg)	32 943	31 000	31 000	27 300	26 500	-19.56	-2.93
Bentonite	(t)	96 605	102 726	105 627	100 604	87 570	-9.35	-12.96
Diatomite	(t)	60 777	53 713	59 619	47 706	48 231	-20.64	1.10
Feldspar	(t)	530 238	592 908	533 328	558 273	650 000	22.59	16.43
Fluorspar	(t)	101 000	96 810	120 582	130 647	130 131	28.84	-0.39
Gypsum	(t)	6 359 923	7 388 699	6 925 120	7 403 767	8 770 650	37.90	18.46
Kaolin	(t)	402 251	410 717	344 414	391 960	330 000	-17.96	-15.81
Magnesite	(t)	649 977	836 269	679 348	464 691	386 000	-40.61	-16.93
Potash	(t)	527 060	711 272	706 664	667 959	672 246	27.55	0.64
Salt	(t)	4 108 662	4 309 839	4 269 637	4 589 545	3 885 940	-5.42	-15.33
Sulfur	(t)	680 000	640 000	650 000	520 000	502 000	-26.18	-3.46
Talc	(t)	8 857	0	0	0	0	-100.00	.

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	3 910 732	2 574 258	2 607 182	1 557 251	672 878	-82.79	-56.79
Lignite	(t)	2 275 409	1 826 681	1 230 444	1 723 731	376 250	-83.46	-78.17
Nat. Gas (Mio m³)		65	62	26	16	6	-90.77	-62.50
Petroleum	(t)	143 526	367 568	305 253	229 568	139 176	-3.03	-39.37
Total	(t)	20 428 592	20 354 709	18 929 980	18 947 176	17 280 337		

SRI LANKA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Titanium	(t)	26 100	24 810	20 140	23 410	11 730	-55.06	-49.89
Feldspar	(t)	87 318	96 043	95 000	95 000	96 000	9.94	1.05
Graphite	(t)	3 094	3 083	3 819	4 212	3 860	24.76	-8.36
Kaolin	(t)	11 805	12 990	12 000	12 000	13 000	10.12	8.33
Phosphates	(t)	16 650	17 190	21 910	18 380	14 120	-15.20	-23.18
Salt	(t)	63 861	36 920	102 018	29 243	106 063	66.08	262.70
Zircon	(t)	293	228	1 335	614	4 117	1 305.12	570.52
Total	(t)	209 121	191 264	256 222	182 859	248 890		

SUDAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	33 740	118 790	16 300	0	0	-100.00	.
Chromium	(t)	8 780	14 820	29 440	7 270	1 850	-78.93	-74.55
Manganese	(t)	0	1 300	8 000	12 560	3 920	.	-68.79
Gold	(kg)	46 133	70 000	73 300	82 400	93 400	102.46	13.35
Silver	(kg)	700	700	1 000	1 000	1 000	42.86	0.00
Feldspar	(t)	26 283	31 700	50 680	28 238	92 172	250.69	226.41
Fluorspar	(t)	950	0	0	0	0	-100.00	.
Gypsum	(t)	117 073	132 000	111 271	24 136	34 924	-70.17	44.70
Kaolin	(t)	11 579	26 000	50 000	14 490	6 500	-43.86	-55.14
Salt	(t)	26 315	20 800	37 295	20 136	22 340	-15.11	10.95
Talc	(t)			0	3 000	4 250	.	41.67
Petroleum	(t)	5 101 400	6 151 600	3 951 500	3 914 700	4 228 400	-17.11	8.01
Total	(t)	5 326 167	6 497 081	4 254 560	4 024 613	4 394 450		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

SURINAME

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	2 874 343	2 670 700	2 707 700	1 865 100	0	-100.00	-100.00
Gold	(kg)	12 507	11 001	10 641	9 397	12 926	3.35	37.55
Petroleum	(t)	810 200	815 700	836 100	842 950	815 700	0.68	-3.23
Total	(t)	3 684 555	3 486 411	3 543 811	2 708 059	815 713		

SWAZILAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	516 120	629 280	301 630	0	0	-100.00	.
Steam Coal	(t)	152 284	257 090	177 930	141 733	158 418	4.03	11.77
Total	(t)	668 404	886 370	479 560	141 733	158 418		

SWEDEN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	16 985 600	17 462 400	18 035 840	15 886 720	17 216 000	1.36	8.37
Aluminium	(t)	129 000	131 000	113 000	116 000	124 000	-3.88	6.90
Copper	(t)	82 422	82 904	79 681	75 113	79 247	-3.85	5.50
Lead	(t)	63 551	59 556	70 848	79 354	75 830	19.32	-4.44
Selenium	(t)	100	100	100	100	60	-40.00	-40.00
Tellurium	(t)	7	24	31	33	39	457.14	18.18
Zinc	(t)	188 325	176 582	221 841	246 983	258 264	37.14	4.57
Gold	(kg)	6 015	6 530	6 849	6 028	6 463	7.45	7.22
Silver	(kg)	309 337	341 346	382 611	479 686	498 686	61.21	3.96
Feldspar	(t)	27 000	30 000	27 000	29 000	22 000	-18.52	-24.14
Graphite	(t)			0	295	0	.	-100.00
Total	(t)	17 476 320	17 942 914	18 548 731	16 434 084	17 775 945		

SWITZERLAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	330 000	340 000	340 000	320 000	320 000	-3.03	0.00
Salt	(t)	518 200	586 400	434 500	476 900	477 000	-7.95	0.02
Total	(t)	848 200	926 400	774 500	796 900	797 000		

SYRIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	328 000	300 000	200 000	100 000	50 000	-84.76	-50.00
Phosphates	(t)	460 000	270 000	370 000	225 000	100 000	-78.26	-55.56
Salt	(t)	34 000	34 000	30 000	30 000	20 000	-41.18	-33.33
Nat. Gas (Mio m³)		6 230	5 120	4 740	4 160	3 740	-39.97	-10.10
Petroleum	(t)	8 522 900	2 686 500	1 460 000	1 197 800	1 101 250	-87.08	-8.06
Total	(t)	14 328 900	7 386 500	5 852 000	4 880 800	4 263 250		

TAIWAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Kaolin	(t)	26 376	15 963	1 808	732	1 000	-96.21	36.61
Salt	(t)	70 750	80 966	81 893	78 300	80 000	13.07	2.17
Sulfur	(t)	231 296	192 292	195 280	211 200	195 100	-15.65	-7.62
Talc	(t)	778	362	133	162	160	-79.43	-1.23
Nat. Gas (Mio m³)		442	381	379	374	321	-27.38	-14.17
Petroleum	(t)	9 800	9 000	7 800	7 900	7 200	-26.53	-8.86
Total	(t)	692 600	603 383	590 114	597 494	540 260		

TAJIKISTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	272 506	216 369	121 261	139 123	129 300	-52.55	-7.06
Antimony	(t)	5 545	7 307	11 200	13 460	26 970	386.38	100.37
Copper	(t)	440	600	940	1 390	2 050	365.91	47.48
Lead	(t)	18 497	23 107	32 400	40 130	57 360	210.10	42.94
Mercury	(t)	103	130	85	96	120	16.50	25.00
Zinc	(t)	24 000	29 955	42 740	50 400	73 850	207.71	46.53
Gold	(kg)	2 400	2 674	3 436	4 200	5 040	110.00	20.00
Silver	(kg)	1 768	1 833	1 870	2 658	3 200	81.00	20.39

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Gypsum	(t)	14 000	15 000	12 455	8 339	8 750	-37.50	4.93
Salt	(t)	27 900	31 000	34 553	35 554	35 238	26.30	-0.89
Steam Coal	(t)	412 000	518 000	878 131	1 042 491	1 361 575	230.48	30.61
Nat. Gas (Mio m³)		11	4	3	4	3	-72.73	-25.00
Petroleum	(t)	29 949	27 000	24 508	24 630	25 134	-16.08	2.05
Total	(t)	813 744	871 673	1 160 678	1 358 820	1 722 755		

TANZANIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bauxite	(t)	59 030	33 940	25 641	1 050	0	-100.00	-100.00
Copper	(t)	5 836	5 752	6 363	6 468	7 166	22.79	10.79
Tin	(t)	20	170	79	179	138	590.00	-22.91
Gold	(kg)	39 012	43 390	40 481	43 861	45 778	17.34	4.37
Silver	(kg)	12 310	11 720	14 493	15 820	17 901	45.42	13.15
Diam. (Gem)	(ct)	108 098	152 688	214 945	184 025	203 915	88.64	10.81
Diam. (Ind)	(ct)	19 076	26 940	37 930	32 475	35 985	88.64	10.81
Gypsum	(t)	91 600	220 500	200 179	254 800	213 700	133.30	-16.13
Kaolin	(t)	1 422	907	3 809	1 953	2 000	40.65	2.41
Phosphates	(t)	6 000	225 060	162 360	49 020	5 200	-13.33	-89.39
Salt	(t)	34 000	34 000	54 757	168 900	178 200	424.12	5.51
Steam Coal	(t)	78 672	128 920	246 128	255 884	278 701	254.26	8.92
Total	(t)	276 631	649 304	699 370	738 314	685 169		

THAILAND

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	188 000	241 560	215 710	10 220	0	-100.00	-100.00
Manganese	(t)	3 912	6 874	6 880	4 320	4 390	12.22	1.62
Tungsten	(t)	70	130	90	31	29	-58.57	-6.45
Antimony	(t)	672	488	706	0	32	-95.24	.
Tin	(t)	125	83	98	45	58	-53.60	28.89
Zinc	(t)	33 328	34 516	45 380	36 210	35 130	5.41	-2.98
Gold	(kg)	4 895	4 419	4 514	3 305	4 293	-12.30	29.89
Silver	(kg)	32 047	32 381	31 046	21 047	35 954	12.19	70.83
Baryte	(t)	64 499	107 437	134 961	170 621	223 101	245.90	30.76
Bentonite	(t)	141 000	150	0	0	0	-100.00	.
Diatomite	(t)	8 500	0	0	0	0	-100.00	.
Feldspar	(t)	1 100 723	1 072 656	1 413 428	1 331 916	1 167 147	6.03	-12.37
Fluorspar	(t)	9 602	2 432	4 590	15 095	20 100	109.33	33.16
Gypsum	(t)	12 304 371	13 646 725	13 421 918	12 143 168	11 746 811	-4.53	-3.26
Kaolin	(t)	141 764	119 512	123 621	102 763	101 618	-28.32	-1.11

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Perlite	(t)	41 400	14 293	54 100	17 200	15 690	-62.10	-8.78
Phosphates	(t)	1 990	350	500	0	0	-100.00	.
Salt	(t)	1 363 539	1 300 156	1 381 067	1 385 911	1 390 548	1.98	0.33
Talc	(t)	40 856	34 700	57 308	52 268	103 926	154.37	98.83
Lignite	(t)	18 066 429	18 110 763	17 981 722	15 150 549	16 978 601	-6.02	12.07
Nat. Gas (Mio m³)		41 415	41 799	42 096	39 793	39 031	-5.76	-1.91
Petroleum	(t)	11 912 281	11 980 493	11 592 740	12 347 720	12 858 470	7.94	4.14
Total	(t)	78 555 098	80 112 554	80 111 655	74 602 461	75 870 491		

TOGO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gold	(kg)	18 551	21 086	20 583	15 568	14 000	-24.53	-10.07
Diam. (Ind)	(ct)	456	24	23	0	0	-100.00	.
Phosphates	(t)	399 850	441 164	394 600	418 100	306 600	-23.32	-26.67
Total	(t)	399 869	441 185	394 621	418 116	306 614		

TRINIDAD AND TOBAGO

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Nat. Gas (Mio m³)		42 604	42 841	42 077	39 617	34 418	-19.21	-13.12
Petroleum	(t)	4 070 403	4 039 477	4 046 848	3 917 069	3 560 000	-12.54	-9.12
Total	(t)	38 153 603	38 312 277	37 708 448	35 610 669	31 094 400		

TUNISIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	116 300	132 100	179 200	153 700	159 500	37.15	3.77
Zinc	(t)	7 400	7 700	7 400	0	0	-100.00	.
Baryte	(t)	11 000	5 300	9 800	10 000	10 000	-9.09	0.00
Gypsum	(t)	752 641	744 589	771 652	690 000	650 000	-13.64	-5.80
Phosphates	(t)	801 100	952 200	1 097 400	936 200	1 062 400	32.62	13.48
Salt	(t)	1 244 000	1 293 880	1 124 019	1 280 000	1 130 000	-9.16	-11.72
Nat. Gas (Mio m³)		2 825	2 859	2 611	2 529	2 246	-20.50	-11.19
Petroleum	(t)	3 314 000	3 149 000	2 813 000	2 438 000	2 283 300	-31.10	-6.35
Total	(t)	8 506 441	8 571 969	8 091 271	7 531 100	7 092 000		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

TURKEY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	3 329 800	5 239 500	7 251 200	4 734 200	4 353 700	30.75	-8.04
Chromium	(t)	2 083 900	1 865 900	1 806 600	1 464 330	1 070 030	-48.65	-26.93
Manganese	(t)	44 500	68 800	52 500	30 500	16 400	-63.15	-46.23
Molybdenum	(t)	0	620	0	1 335	0	.	-100.00
Nickel	(t)	3 810	1 080	3 030	8 640	9 340	145.14	8.10
Titanium	(t)	4 750	4 750	4 750	4 750	4 750	0.00	0.00
Aluminium	(t)	43 700	42 200	30 400	45 900	50 000	14.42	8.93
Antimony	(t)	6 590	4 180	3 070	1 950	2 000	-69.65	2.56
Bauxite	(t)	1 521 150	795 562	1 091 442	1 050 000	989 156	-34.97	-5.79
Copper	(t)	101 700	120 500	96 300	108 000	100 000	-1.67	-7.41
Lead	(t)	47 350	65 630	94 900	75 900	64 300	35.80	-15.28
Zinc	(t)	209 000	200 000	211 500	173 600	201 500	-3.59	16.07
Gold	(kg)	29 390	33 980	31 260	27 800	24 030	-18.24	-13.56
Silver	(kg)	193 890	189 600	183 880	193 556	174 180	-10.17	-10.01
Baryte	(t)	827 652	736 316	203 984	655 943	321 239	-61.19	-51.03
Bentonite	(t)	1 032 325	731 936	1 098 817	3 134 911	1 744 912	69.03	-44.34
Boron	(t)	2 220 000	2 000 000	1 870 000	1 840 000	1 831 000	-17.52	-0.49
Diatomite	(t)	86 403	84 571	61 884	86 656	61 722	-28.56	-28.77
Feldspar	(t)	9 479 699	13 764 126	7 960 844	10 422 766	9 475 819	-0.04	-9.09
Fluorspar	(t)	5 197	3 874	4 271	6 238	10 339	98.94	65.74
Graphite	(t)	31 500	28 740	3 850	0	0	-100.00	.
Gypsum	(t)	8 248 446	9 790 097	9 051 158	8 638 715	10 124 221	22.74	17.20
Kaolin	(t)	988 081	1 168 441	2 032 103	1 887 302	1 283 260	29.87	-32.01
Magnesite	(t)	2 475 828	2 597 465	2 377 157	3 335 258	3 258 445	31.61	-2.30
Perlite	(t)	887 600	1 075 949	897 125	843 242	1 066 251	20.13	26.45
Phosphates	(t)	9 500	153 000	181 200	214 000	231 800	2 340.00	8.32
Salt	(t)	5 378 208	5 613 506	5 331 412	6 257 320	5 328 256	-0.93	-14.85
Sulfur	(t)	112 900	112 700	98 800	78 600	78 000	-30.91	-0.76
Talc	(t)	99 788	103 004	114 414	182 362	203 214	103.65	11.43
Vermiculite	(t)		1 604	716	425	1 050	.	147.06
Zircon	(t)	200	0	1 100	1 500	500	150.00	-66.67
Steam Coal	(t)	2 223 000	2 050 000	1 815 000	1 525 000	1 817 000	-18.26	19.15
Coking Coal	(t)	1 113 000	817 000	861 000	767 000	732 000	-34.23	-4.56
Lignite	(t)	72 481 467	63 816 100	61 500 000	56 349 700	56 850 000	-21.57	0.89
Nat. Gas (Mio m³)		664	562	502	399	382	-42.47	-4.26
Petroleum	(t)	2 300 000	2 398 454	2 455 893	2 515 662	2 571 928	11.82	2.24
Total	(t)	117 928 467	115 905 429	108 968 235	106 761 127	104 157 930		

TURKMENISTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Bentonite	(t)	50 000	50 000	7 387	10 000	10 000	-80.00	0.00
Salt	(t)	220 000	100 000	91 651	100 000	100 000	-54.55	0.00
Sulfur	(t)	200 000	300 000	505 905	600 000	400 000	100.00	-33.33

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Nat. Gas (Mio m³)	62 290	62 350	72 739	71 900	74 000	18.80	2.92
Petroleum (t)	11 198 570	11 384 500	11 588 800	12 723 740	12 702 150	13.43	-0.17
Total (t)	61 500 570	61 714 500	70 384 943	70 953 740	72 412 150		

UGANDA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron (t)		2 659	1 369	25 175	5 400	1 280	-51.86	-76.30
Cobalt (t)		556	181	0	0	0	-100.00	.
Niobium (t)					0	4	.	.
Tungsten (t)		34	57	63	36	41	20.59	13.89
Tin (t)		0	19	33	135	62	.	-54.07
Gold (kg)		4	5	24	13	11	175.00	-15.38
Kaolin (t)		42 886	43 875	46 286	40 774	45 909	7.05	12.59
Vermiculite (t)		51 962	2 296	2 661	1 213	3 295	-93.66	171.64
Total (t)		98 097	47 797	74 218	47 558	50 591		

UKRAINE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron (t)		42 975 400	45 056 000	43 712 000	42 817 200	40 240 600	-6.36	-6.02
Manganese (t)		456 600	474 500	565 800	546 600	491 500	7.64	-10.08
Titanium (t)		250 000	443 100	391 150	375 480	339 800	35.92	-9.50
Gallium (t)		11	11	10	13	10	-9.09	-23.08
Germanium (t)		1	1	1	1	1	0.00	0.00
Bentonite (t)		219 000	220 000	220 000	220 000	220 000	0.46	0.00
Feldspar (t)		146 286	133 933	94 506	44 460	33 627	-77.01	-24.37
Graphite (t)		6 000	7 000	8 000	10 000	12 000	100.00	20.00
Gypsum (t)		2 224 000	2 175 400	1 525 300	1 254 900	1 303 000	-41.41	3.83
Kaolin (t)		1 218 000	1 179 380	1 426 447	1 814 786	2 335 004	91.71	28.67
Salt (t)		6 181 000	5 796 287	2 497 706	2 136 500	1 783 530	-71.14	-16.52
Sulfur (t)		130 000	120 000	120 000	120 000	120 000	-7.69	0.00
Zircon (t)		29 000	41 000	35 000	30 000	29 280	0.97	-2.40
Steam Coal (t)		44 826 000	44 764 000	33 634 000	23 852 700	25 121 500	-43.96	5.32
Coking Coal (t)		20 879 000	19 663 000	12 297 000	6 063 900	6 508 800	-68.83	7.34
Nat. Gas (Mio m³)		19 800	21 300	20 100	19 900	20 052	1.27	0.76
Petroleum (t)		3 400 000	3 100 000	2 762 000	2 533 300	2 272 100	-33.17	-10.31
Uranium (t)		1 132	1 087	1 092	1 156	1 185	4.68	2.51
Total (t)		138 781 430	140 214 699	115 370 012	97 740 996	96 853 537		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

UNITED ARAB EMIRATES

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Aluminium	(t)	1 814 000	1 845 000	2 296 000	2 397 000	2 471 000	36.22	3.09
Sulfur	(t)	2 000 000	2 100 000	2 300 000	2 000 000	2 200 000	10.00	10.00
Nat. Gas (Mio m³)		54 310	54 600	54 240	60 180	61 860	13.90	2.79
Petroleum	(t)	154 791 300	165 102 700	166 197 200	176 175 300	182 365 400	17.81	3.51
Total	(t)	202 053 300	212 727 700	214 185 200	228 716 300	236 524 400		

UNITED KINGDOM

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Tungsten	(t)			0	155	732	.	372.26
Aluminium	(t)	60 000	45 000	41 000	48 000	46 000	-23.33	-4.17
Lead	(t)	61	36	0	0	0	-100.00	.
Tin	(t)			0	16	144	.	800.00
Gold	(kg)	102	42	0	0	0	-100.00	.
Silver	(kg)	230	82	0	0	0	-100.00	.
Baryte	(t)	30 000	30 000	44 000	50 000	50 000	66.67	0.00
Fluorspar	(t)	0	16 000	25 000	17 000	17 000	.	0.00
Gypsum	(t)	1 700 000	1 200 000	1 200 000	1 200 000	1 200 000	-29.41	0.00
Kaolin	(t)	1 150 000	1 110 000	1 090 000	1 014 000	1 020 000	-11.30	0.59
Potash	(t)	568 530	580 000	600 000	610 000	460 000	-19.09	-24.59
Salt	(t)	6 460 000	6 930 000	4 690 000	4 600 000	4 600 000	-28.79	0.00
Sulfur	(t)	158 000	313 000	134 000	135 000	135 000	-14.56	0.00
Talc	(t)	3 667	2 947	4 907	5 430	5 500	49.99	1.29
Steam Coal	(t)	15 901 000	12 493 000	11 549 000	8 526 000	4 124 800	-74.06	-51.62
Coking Coal	(t)	386 000	179 000	99 000	72 000	53 000	-86.27	-26.39
Nat. Gas (Mio m³)		39 597	37 308	37 680	40 466	41 607	5.08	2.82
Petroleum	(t)	44 560 800	41 100 800	40 327 750	45 698 100	47 872 100	7.43	4.76
Total	(t)	102 655 658	93 846 183	89 948 657	94 348 501	92 869 876		

UNITED STATES

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	34 461 000	33 264 000	35 343 000	29 043 000	26 334 000	-23.58	-9.33
Cobalt	(t)			120	760	690	.	-9.21
Molybdenum	(t)	60 400	61 000	68 200	47 400	35 800	-40.73	-24.47
Nickel	(t)			4 300	27 200	24 100	.	-11.40
Titanium	(t)	164 000	155 000	142 000	110 000	55 000	-66.46	-50.00
Vanadium	(t)	106	591	0	0	0	-100.00	.

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Aluminium	(t)	2 070 300	1 946 000	1 709 668	1 586 518	818 430	-60.47	-48.41
Bauxite	(t)	128 152	128 000	128 000	100 000	100 000	-21.97	0.00
Cadmium	(t)	600	600	550	500	400	-33.33	-20.00
Copper	(t)	1 166 800	1 278 200	1 384 700	1 380 000	1 430 000	22.56	3.62
Germanium	(t)	3	3	3	3	3	0.00	0.00
Lead	(t)	345 000	339 000	378 000	370 000	346 000	0.29	-6.49
Lithium	(t)	2 000	1 870	2 150	2 000	2 100	5.00	5.00
Mercury	(t)	15	15	15	15	15	0.00	0.00
Rare Earths	(t)	2 336	3 473	4 769	3 678	0	-100.00	-100.00
Rhenium	(kg)	7 910	7 110	8 510	7 900	8 440	6.70	6.84
Tellurium	(t)	50	50	50	50	50	0.00	0.00
Zinc	(t)	738 400	784 400	830 800	824 700	805 000	9.02	-2.39
Gold	(kg)	234 623	229 703	210 077	213 808	222 211	-5.29	3.93
Palladium	(kg)	12 314	12 572	12 448	12 532	13 070	6.14	4.29
Platinum	(kg)	3 664	3 723	3 655	3 667	3 891	6.20	6.11
Rhodium	(kg)	284	100	124	96	103	-63.73	7.29
Silver	(kg)	1 055 300	1 037 000	1 183 900	1 090 000	1 147 000	8.69	5.23
Baryte	(t)	666 000	723 000	663 000	439 000	240 000	-63.96	-45.33
Bentonite	(t)	4 980 000	4 350 000	4 800 000	4 010 000	3 600 000	-27.71	-10.22
Boron	(t)	1 102 000	1 032 000	1 118 000	1 218 000	1 134 000	2.90	-6.90
Diatomite	(t)	735 000	782 000	901 000	832 000	686 000	-6.67	-17.55
Feldspar	(t)	560 000	550 000	530 000	520 000	470 000	-16.07	-9.62
Gypsum	(t)	12 800 000	15 700 000	16 200 000	16 600 000	17 000 000	32.81	2.41
Kaolin	(t)	5 900 000	6 140 000	6 250 000	6 030 000	5 170 000	-12.37	-14.26
Perlite	(t)	393 000	471 000	462 000	488 000	513 000	30.53	5.12
Phosphates	(t)	8 590 000	8 930 000	7 110 000	7 710 000	7 615 000	-11.35	-1.23
Potash	(t)	900 000	960 000	850 000	740 000	500 000	-44.44	-32.43
Salt	(t)	37 200 000	39 900 000	45 300 000	45 100 000	42 000 000	12.90	-6.87
Sulfur	(t)	9 000 000	9 210 000	9 640 000	9 540 000	9 740 000	8.22	2.10
Talc	(t)	515 000	542 000	609 987	615 000	536 000	4.08	-12.85
Vermiculite	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Zircon	(t)	85 000	78 000	65 000	60 000	50 000	-41.18	-16.67
Steam Coal	(t)	768 014 000	743 730 000	760 930 000	689 985 000	553 936 000	-27.87	-19.72
Coking Coal	(t)	81 300 000	77 857 000	72 717 000	57 521 000	50 645 000	-37.71	-11.95
Lignite	(t)	71 602 000	70 061 000	72 110 000	64 930 100	66 506 800	-7.12	2.43
Nat. Gas (Mio m³)		680 550	685 430	733 120	766 410	755 010	10.94	-1.49
Petroleum	(t)	393 177 890	446 916 580	522 747 980	565 139 320	543 045 020	38.12	-3.91
Uranium	(t)	1 880	2 113	2 219	1 516	1 323	-29.63	-12.73
Total	(t)	1 981 202 246	2 014 342 186	2 149 599 930	2 118 204 089	1 937 449 125		

URUGUAY

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	9 500	9 978	15 050	11 520	1 040	-89.05	-90.97
Gold	(kg)	1 930	2 038	1 719	1 413	999	-48.24	-29.30

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Bentonite	(t)	5 530	8 974	7 800	4 252	6 650	20.25	56.40
Feldspar	(t)	0	4	300	200	460	.	130.00
Talc	(t)	370	708	360	585	290	-21.62	-50.43
Total	(t)	15 402	19 666	23 512	16 558	8 441		

UZBEKISTAN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Molybdenum	(t)	560	490	450	570	620	10.71	8.77
Tungsten	(t)	131	98	83	110	80	-38.93	-27.27
Bismuth	(t)	2	2	2	2	0	-100.00	-100.00
Cadmium	(t)	625	0	60	707	290	-53.60	-58.98
Copper	(t)	95 600	98 000	99 500	100 000	100 000	4.60	0.00
Lead	(t)	3 000	3 000	3 000	3 000	2 000	-33.33	-33.33
Rhenium	(kg)	1 200	900	900	1 000	1 000	-16.67	0.00
Selenium	(t)	20	20	20	20	10	-50.00	-50.00
Zinc	(t)	6 000	8 000	8 000	8 000	10 000	66.67	25.00
Gold	(kg)	90 000	98 000	102 000	103 000	100 000	11.11	-2.91
Silver	(kg)	60 000	60 000	60 000	60 000	60 000	0.00	0.00
Kaolin	(t)	300 000	70 286	64 605	196 350	323 680	7.89	64.85
Phosphates	(t)	154 800	155 000	136 510	166 800	170 000	9.82	1.92
Potash	(t)	108 000	84 600	96 360	103 000	83 000	-23.15	-19.42
Steam Coal	(t)	75 800	56 000	407 249	412 000	160 000	111.08	-61.17
Lignite	(t)	3 784 000	4 034 000	3 989 586	3 988 000	3 717 400	-1.76	-6.79
Nat. Gas (Mio m³)		62 911	59 630	61 740	62 196	63 253	0.54	1.70
Petroleum	(t)	3 165 000	3 146 000	2 961 000	2 872 000	2 662 000	-15.89	-7.31
Uranium	(t)	3 538	3 909	4 010	4 100	4 090	15.60	-0.24
Total	(t)	58 026 027	55 363 564	57 162 598	57 611 623	57 835 731		

VENEZUELA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	10 012 000	7 278 800	7 318 100	7 615 100	5 070 000	-49.36	-33.42
Nickel	(t)	8 800	5 800	3 599	3 707	0	-100.00	-100.00
Aluminium	(t)	203 000	171 200	138 400	119 511	145 000	-28.57	21.33
Bauxite	(t)	2 285 332	2 341 155	2 346 160	991 810	340 000	-85.12	-65.72
Gold	(kg)	1 982	1 675	1 056	558	800	-59.64	43.37
Feldspar	(t)	85 115	91 054	93 934	75 527	75 000	-11.88	-0.70
Kaolin	(t)	2 447	2 793	0	0	0	-100.00	.
Phosphates	(t)	42 430	29 780	10 030	7 370	5 000	-88.22	-32.16

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Salt	(t)	661 000	508 000	610 000	642 000	640 000	-3.18	-0.31
Sulfur	(t)	800 000	800 000	800 000	700 000	700 000	-12.50	0.00
Steam Coal	(t)	1 910 801	1 229 309	800 640	801 697	947 000	-50.44	18.12
Nat. Gas (Mio m³)		29 480	28 450	28 640	32 420	34 290	16.32	5.77
Oilsands	(t)	30 738 000	29 880 000	30 100 000	29 980 000	29 000 000	-5.65	-3.27
Petroleum	(t)	139 325 000	137 781 400	138 510 300	135 947 400	124 058 900	-10.96	-8.74
Total	(t)	178 919 927	172 999 293	173 543 164	172 840 123	159 412 901		

*as part of petroleum

VIETNAM

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Iron	(t)	903 720	1 497 180	1 631 400	1 614 600	1 892 400	109.40	17.21
Chromium	(t)	830	800	1 600	0	0	-100.00	.
Cobalt	(t)		0	223	277	134	.	-51.62
Manganese	(t)	6 800	51 600	50 000	50 000	29 000	326.47	-42.00
Nickel	(t)		1 166	6 854	8 607	4 272	.	-50.37
Titanium	(t)	508 720	533 420	290 160	123 600	52 830	-89.62	-57.26
Tungsten	(t)	1 100	1 660	3 510	4 063	5 041	358.27	24.07
Antimony	(t)	480	990	1 098	220	200	-58.33	-9.09
Bauxite	(t)	100 000	482 000	1 090 000	1 200 000	1 600 000	1 500.00	33.33
Bismuth	(t)		0	2 324	3 000	2 013	.	-32.90
Copper	(t)	12 720	14 188	21 762	24 420	24 460	92.30	0.16
Lead	(t)	400	1 900	2 800	1 900	800	100.00	-57.89
Tin	(t)	3 191	5 129	4 833	4 530	4 579	43.50	1.08
Zinc	(t)	25 000	20 000	17 000	15 000	12 000	-52.00	-20.00
Gold	(kg)	1 508	1 681	123	0	0	-100.00	.
Baryte	(t)	90 000	90 000	112 000	140 000	100 000	11.11	-28.57
Fluorspar	(t)	0	15 919	95 494	214 000	218 878	.	2.28
Gypsum	(t)	5 000	5 000	0	0	0	-100.00	.
Kaolin	(t)	650 000	650 000	650 000	650 000	650 000	0.00	0.00
Phosphates	(t)	709 140	796 830	741 270	877 020	854 820	20.54	-2.53
Salt	(t)	776 400	718 700	905 600	1 061 000	933 200	20.20	-12.05
Zircon	(t)	26 000	26 000	15 730	8 000	9 300	-64.23	16.25
Steam Coal	(t)	42 083 000	41 064 000	41 086 000	41 664 000	38 527 000	-8.45	-7.53
Nat. Gas (Mio m³)		9 355	9 751	10 210	10 660	10 610	13.42	-0.47
Petroleum	(t)	16 739 000	16 705 000	17 392 000	18 746 000	17 230 000	2.93	-8.09
Total	(t)	70 125 503	70 482 284	72 289 658	74 938 237	70 638 927		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

YEMEN

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Gypsum	(t)	120 000	120 000	100 000	100 000	100 000	-16.67	0.00
Salt	(t)	85 000	85 000	85 000	70 000	50 000	-41.18	-28.57
Nat. Gas (Mio m³)		7 590	9 544	9 741	2 854	1 140	-84.98	-60.06
Petroleum	(t)	8 357 500	9 387 600	7 582 000	1 520 000	595 000	-92.88	-60.86
Total	(t)	14 634 500	17 227 800	15 559 800	3 973 200	1 657 000		

ZAMBIA

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Cobalt	(t)	5 436	5 658	4 562	2 979	4 982	-8.35	67.24
Manganese	(t)	24 270	21 760	22 000	5 000	27 500	13.31	450.00
Copper	(t)	699 020	763 805	708 259	711 515	774 290	10.77	8.82
Gold	(kg)	4 232	5 207	4 803	4 238	4 610	8.93	8.78
Sulfur	(t)	310 000	310 000	300 000	300 000	363 000	17.10	21.00
Steam Coal	(t)	90 493	415 233	159 151	103 439	126 050	39.29	21.86
Total	(t)	1 129 223	1 516 461	1 193 977	1 122 937	1 295 827		

ZIMBABWE

		2012	2013	2014	2015	2016	Change 12/16	Change 15/16
Chromium	(t)	183 814	159 814	183 790	93 750	128 220	-30.24	36.77
Cobalt	(t)	195	319	358	355	409	109.74	15.21
Nickel	(t)	7 899	12 962	16 633	16 109	17 743	124.62	10.14
Copper	(t)	6 665	8 285	8 261	8 218	9 101	36.55	10.74
Lithium	(t)	1 670	1 680	1 720	1 845	2 030	21.56	10.03
Gold	(kg)	14 743	14 001	15 386	20 023	22 747	54.29	13.60
Palladium	(kg)	8 136	10 153	10 138	10 055	12 222	50.22	21.55
Platinum	(kg)	10 524	13 065	12 483	12 564	15 110	43.58	20.26
Rhodium	(kg)	891	1 146	1 140	1 128	1 322	48.37	17.20
Asbestos	(t)	30	377	0	0	0	-100.00	.
Diam. (Gem)	(ct)	3 618 049	3 123 545	1 431 491	1 008 000	639 920	-82.31	-36.52
Diam. (Ind)	(ct)	8 442 114	7 288 273	3 340 146	2 352 000	1 493 140	-82.31	-36.52
Graphite	(t)	7 022	6 934	6 853	6 362	5 622	-19.94	-11.63
Phosphates	(t)	5 040	0	0	0	0	-100.00	.
Vermiculite	(t)	21 625	28 808	30 740	30 868	29 316	35.57	-5.03

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

DATA

Steam Coal	(t)	2 614 000	2 665 000	5 361 000	3 910 000	2 273 000	-13.05	-41.87
Coking Coal	(t)	430 000	449 000	422 000	426 000	429 000	-0.23	0.70
Total	(t)	3 277 998	3 333 219	6 031 394	4 493 552	2 894 492		

Total Prod.: different units (m³, ct, kg) converted to metr. t
Abbreviations: see Explanation

