

DATA SERVICE & INFORMATION GMBH GESELLSCHAFT FÜR WIRTSCHAFTSANALYSE UND -PROGNOSE





DSI's Globlal Environmental Database edition 2019 has been updated and presents 1200+ up-to-date statistical time series indicators across up to 280 countries and regions worldwide.

DSI's Global Environmental Database brings together hard-to-find statistics on the environmental issues affecting our climate, our resources, our social communities:

- detailed data on energy consumption and emissions from fuel combustion,
- water resources, land use, agriculture, farming, forestry and fishery,
- human resources (population, education, skills),
- social conditions (health, sanitation, poverty, natural disasters),
- economic core indicators (GDP, production, trade, exchange rates).

DSI's Global Environmental Database is an indispensible source to

- identify trends across different countries,
- compare one country's environmental situation and policies with another,
- find out which countries are making efforts to protect their environment.

CD-RoM archive available: DSI's Global Environmental Database (GED) on CD-RoM comes along with a powerful retrieval engine and includes online access to the corresponding GED internet services without surcharge.



Harmonised Data

Updated on a regular basis, DSI's Global Environmental Database covers the years from 1980 onwards (if available). Most time series have been harmonised and finally merged into a single database for easy access and more comfortable research.

Sources

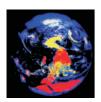
The primary statistics have been researched from official information sources worldwide, especially international organisations, e.g.:

the World Health organisation, the United Nations and its specialised agencies, Eurostat and the European Environment Agency, the Energy Information Administration, International Monetary Fund, Centre for Research on the Epidemiology of Disasters, Intergovernmental Panel on Climate Change, International Union for the Conservation of Nature and Natural Resources, or the World Database on Protected Areas - WDPA Consortium.

Data Access

IP controlled internet access (or variable access by user ID/password) allows data retrieval by keyword search, tree-view or via hierarchical breakdown supported by some powerful online tools for ad hoc analysis:

- calculations
- statistical operations (mean, standard deviation, moving average, growth rate, lag)
- forecasts
- reports
- graphics/tables
- data downloading for external analysis, e.g.
 - to identify trends between countries and regions or
 - to create individual environmental performance indices and rankings



Data Coverage

DSI's Global Environmental Database allows to enhance broad national, regional and global environmental analyses.

- I. Elementary Resources
 - atmosphere: air quality, climate
 - water: quality/pollution, reserves
 - terrestrial/soil: land use, fertilization, salinization
- II. Natural Resources
 - food
 - agriculture
 - farming
 - fishery
 - forestry
 - biodiversity

III. Mineral Resources

- coal
- oil
- natural gas
- uranium

IV. Energy Consumption

total

by sector

- coal
- natural gas
- oil
- charcoal
- biomass, wood, waste

V. Human Resources

- population
- education
- skills

VI. Social Conditions

- health
- sanitation
- poverty
- disasters (natural)

VII. Economic Core Indicators

- GDP
- production
- trade
- exchange rates



Country Coverage

Afghanistan, Albania, Algeria, American Samoa, Andorra, Angola, Anguilla, Antarctic, Antiqua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, Bahamas, Bahrain, Baker Island, Bangladesh, Barbados, Belarus, Belgium, Belize, Benin, Bermuda, Bhutan, Bolivia, Bosnia and Herzegovina, Botswana, Bouvet Island, Brazil, British Indian ocean Territory, British Virgin Islands, Brunei Darussalam, Bulgaria, Burkina Faso, Burundi, Cambodia, Cameroon, Canada, Cape Verde, Cayman Islands, Central African Republic, Chad, Chile, China, Christmas Island, Cocos (Keeling) Islands, Colombia, Comoros, Congo, Cook Islands, Costa Rica, Cote d'Ivoire, Croatia, Cuba, Cyprus, Czech Republic, Democratic People's Republic of Korea, Democratic Republic of the Congo, Denmark, Djibouti, Dominica, Dominican Republic, Ecuador, Egypt, El Salvador, Eguatorial Guinea, Eritrea, Estonia, Ethiopia, Falkland Islands (Malvinas), Faroe Islands, Fiji, Finland, France, French Guiana, French Polynesia, French Southern and Antarctic Territories, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Glorioso Islands, Greece, Greenland, Grenada, Guadeloupe, Guam, Guatemala, Guernsey, Guinea, Guinea-Bissau, Guyana, Haiti, Heard Island & McDonald Islands, Holy See, Honduras, Howland Island, Hungary, Iceland, India, Indonesia, Iran (Islamic Republic of), Iraq, Ireland, Isle of Man, Israel, Italy, Jamaica, Japan, Jarvis Island, Jersey, Johnston Atoll, Jordan, Juan De Nova Island, Kazakhstan, Kenya, Kiribati, Kosovo, Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Latvia, Lebanon, Lesotho, Liberia, Libyan Arab Jamahiriya Liechtenstein, Lithuania, Luxembourg, Macau, China, Madagascar, Malawi, Malaysia, Maldives, Mali, Malta, Marshall Islands, Martinique, Mauritania, Mauritius, Mayotte, Mexico, Micronesia (Federated States of), Midway Islands, Moldova, Republic of, Monaco, Mongolia, Montenegro, Montserrat, Morocco, Mozambigue, Myanmar, Namibia, Nauru, Nepal, Netherlands, Netherlands Antilles, New Caledonia, New Zealand, Nicaragua, Niger, Nigeria, Niue, Norfolk Island, Northern Mariana Islands, Norway, occupied Palestinian Territory, oman, Pakistan, Palau, Panama, Papua New Guinea, Paracel Islands, Paraguay, Peru, Philippines, Pitcairn Island, Poland, Portugal, Puerto Rico, Qatar, Republic of Korea, Reunion, Romania, Russian Federation, Rwanda, Saint Helena, Saint Kitts and Nevis, Saint Lucia, Saint Pierre and Miguelon, Saint Vincent and the Grenadines, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, Solomon Islands, Somalia, South Africa, South Georgia and the South Sandwich Islands, Spain, Spratly Islands, Sri Lanka, Sudan, Suriname, Svalbard and Jan Mayen Islands, Swaziland, Sweden, Switzerland, Syrian Arab Republic, Taiwan, Tajikistan, Thailand, The former Yugoslav Republic of Macedonia, Togo, Tokelau, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Turks and Caicos Islands, Tuvalu, Uganda, Ukraine, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland, United Republic of Tanzania, United States of America, United States Virgin Islands, Uruguay, Uzbekistan, Vanuatu, Venezuela, Viet Nam, Wake Island, Wallis and Futuna, Western Sahara, Yemen, Serbia, Zambia, Zimbabwe.

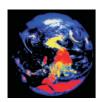


Regions Coverage

World

Africa, Asia + Pacific, Europe, Latin America + Caribbean, North America, Polar, West Asia.

Central Africa, Eastern Africa, Northern Africa, Southern Africa, Western Africa, Western Indian ocean, Australia + New Zealand, Central Asia, NW Pacific + East Asia, South Asia, South East Asia, South Pacific, Central Europe, Eastern Europe, Western Europe, Caribbean, Meso America, South America, North America, Antarctic, Arctic, Arabian Peninsula, Mashriq.

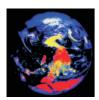


List of indicators

```
I. Elementary Resources
      - atmosphere
             climate: average temperature
             climate: average Co2 concentration ("Keeling Curve")
             quality: emissions of ozone-depleting substances
             quality: PM 10
             quality: emissions from fuel combustion
             (->Methodologies for calculation of energy consumption by sector)
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
                   natural gas
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
                   oil
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
                   charcoal
                          carbon dioxide, Co2
                          methan, CH4
                          nitrous oxide, N2o
                          nitrogen oxide, NoX
                          carbon monoxide, Co
                          non-methane volatile organic compounds, NMVoC
                          sulphur dioxide, So2
```



```
biomass/ wood/ waste
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
quality: emissions from fossil fuel combustion by sectors
      total emissions from energy sector
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
      total emissions from manufacturing sector
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
            carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
      total emissions from transport sector
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
      total emissions from other sectors
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
```



```
total emissions from fuel
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
quality: emissions from total fuel combustion by sectors
      total emissions from energy sector
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
      total emissions from manufacturing sector
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
            carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
      total emissions from transport sector
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
      total emissions from other sectors
             carbon dioxide, Co2
             methan, CH4
             nitrous oxide, N2o
             nitrogen oxide, NoX
             carbon monoxide, Co
             non-methane volatile organic compounds, NMVoC
             sulphur dioxide, So2
```



```
total emissions from fuel
                    carbon dioxide, Co2
                    methan, CH4
                    nitrous oxide, N2o
                    nitrogen oxide, NoX
                    carbon monoxide, Co
                    non-methane volatile organic compounds, NMVoC
                    sulphur dioxide, So2
- water
      fresh water
             resource
                    precipitation
                    exploitable
                    fossil
                           abstraction of fossil groundwater
                           expected time that fossil groundwater will last
                    harvesting
                    renewable
                           water resources: total renewable per capita (actual)
                           groundwater
                           surface water
                           freshwater
                           total internal renewable
                           total internal per capita
                           total external renewable (actual)
                           total renewable (actual)
             withdrawal
                    by sector
                           agricultural water
                           domestic water
                           industrial water
                           total water (summed by sector)
                           agricultural water withdrawal as part of total
                           domestic water withdrawal as part of total
                           industrial water withdrawal as part of total
                           surface water
                           groundwater
                           freshwater
                    water stress
             irrigation/ drainage
                    drained area
                           total
                           area equipped for irrigation
                           non-irrigated area
```



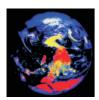
```
area equipped for irrigation
                    total
                    actual irrigated
                    irrigation potential
                    full control - surface
                    full control - sprinkler
                    full control - localized
                    full control - total
                    lowlands
                    power irrigated area
                    power irrigated area as percentage
                    spate irrigation
                    part of area actually irrigated
                    percentage of water managed area
                    percentage of irrigation potential
                    percentage of cultivated land
                    by groundwater
                    by surface water
                    by other sources
             flood recession cropping area
             cultivated wetlands and inland valley bottoms
             agricultural water managed area
             grain production irrigated
      desalinated
waste water
      produced
      organic pollution
             total industry
             chemical industry
             clay and glass industry
             food industry
             metal industry
             paper & pulp industry
             textile industry
             wood industry
             other industry
      treated
```



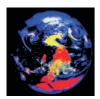
amides anticoagulants benzimidazoles benzimidazoles-seedTrF bipiridils botanic prod&biologSdTrF botanic. produc & biologic. carbamates herbicides carbamates insecticides carbamates-insect-SdTr chlorinated hydrocarbons cyanide generators diazines, morpholines dinitroanilines disinfectants disinfectants + (total) dithiocarbamates dithiocarbamates-seedTrF fungicides & bactericides + (total) herbicides + (total) hypercalcaemics inorganics insecticides + (total) mineral oils mineral oils + (total) narcotics organo-phospates-SdTr In organo-phosphates other fungicides other herbicides other insecticides other pesticides nes other pesticides nes + (total) other rodenticides others-seedtreat ins others-seedtreatfung phenoxy hormone products plant growth regulators plant growth regulators + (total) pyrethroids pyrethroids-seedTr Ins rodenticides + (total) seed treatm fungicides + (total)



```
- terrestrial/soil
      land use
             total area
             parks and protected areas - terrestric and marine
             agricultural area
             agricultural area certified organic
             agricultural area in conversion to organic
             agricultural area irrigated
             agricultural area organic, total
             arable land
             arable land and permanent crops
             arable land area certified organic
             arable land area in conversion to organic
             arable land organic, total
             country area
             fallow land
             forest area
             inland water
             land area
             other land
             perm. meadows & pastures - cultivated
             perm. meadows & pastures - nat. grown
             permanent crops
             permanent crops area certified organic
             permanent crops area in conversion to organic
             permanent crops organic, total
             permanent meadows and pastures
             permanent meadows and pastures area certified organic
             permanent meadows and pastures area in conversion to organic
             permanent meadows and pastures organic, total
             temporary crops
             temporary meadows and pastures
             total area equipped for irrigation
      fertilization
             total - consumption
             total - production
             ammonia, anhydrous - consumption
             ammonia, anhydrous - production
             ammonium nitrate - consumption
             ammonium nitrate - production
             ammonium sulphate - consumption
             ammonium sulphate - production
             calcium ammonium nitrate - consumption
```

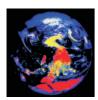


```
calcium ammonium nitrate - production
      diammonium phosphate - consumption
      diammonium phosphate - production
      monoammonium phosphate - consumption
      monoammonium phosphate - production
      nitrogen fertilizers - consumption
      nitrogen fertilizers - production
      NPK blends - consumption
      NPK complex - consumption
      NPK complex - production
      NPK complex <=10kg - consumption
      NPK complex <=10kg - production
      NPK complex >10kg - consumption
      NPK complex >10kg - production
      other nitrogen & phosphates compounds - consumption
      other nitrogen & phosphates compounds - production
      other nitrogen & phosphorus compounds - consumption
      other nitrogen & phosphorus compounds - production
      other NP compounds - consumption
      other NP compounds - production
      phosphate fertilizers - consumption
      phosphate fertilizers - production
      phosphate rock - consumption
      phosphate rock - production
      PK compounds - consumption
      PK compounds - production
      potash fertilizers - consumption
      potash fertilizers - production
      potassium chloride (muriate of potash);consumption
      potassium chloride (muriate of potash); production
      potassium nitrate - consumption
      potassium nitrate - production
      potassium sulphate - consumption
      potassium sulphate - production
      superphosphate - consumption
      superphosphate - production
      superphosphate above 35%; consumption
      superphosphate above 35%; production
      superphosphate other - consumption
      superphosphate other - production
      urea - consumption
      urea - production
      urea and ammonium nitrate solutions - consumption
      urea and ammonium nitrate solutions - production
pesticides
```

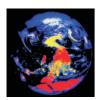


```
seed treatment insecticides + (total)
                    sulfonyl ureas
                    triazines
                    triazoles diazoles-SdTrF
                    triazoles, diazoles
                    uracil
                    urea derivates
             salinisation
II. Natural Resources
      - food production
      - food supply
             - livestock, fish ...
                    animal fats
                    animal products
                    quatic animals, others
                    aquatic plants
                    aquatic products, other
                    bovine meat
                    butter, ghee
                    cephalopods
                    cheese
                    crustaceans
                    demersal fish
                    eggs
                    fats, animals, raw
                    fish, body oil
                    fish, liver oil
                    fish, seafood
                    freshwater fish
                    grand total
                    honey
                    marine fish, other
                    meat
                    meat meal
                    meat, aquatic mammals
                    meat, other
                    milk - excluding butter
                    milk, whole
                    molluscs, other
```

mutton & goat meat



```
offals
      offals, edible
      pelagic fish
      pigmeat
      poultry meat
      whey
- crops, fruits ...
      alcoholic beverages
      apples and products
      bananas
      barley and products
      beans
      beer
      beverages, alcoholic
      beverages, fermented
      cassava and products
      cereals - excluding beer
      cereals, other
      citrus, other
      cloves
      cocoa beans and products
      coconut oil
      coconuts - incl copra
      coffee and products
      cottonseed oil
      dates
      fruits - excluding wine
      fruits, other
      grapefruit and products
      grapes and products (excl wine)
      groundnut oil
      groundnuts (in shell eq)
      infant food
      lemons, limes and products
      maize and products
      maize germ oil
      millet and products
      miscellaneous
      molasses
      nuts and products
      oats
```

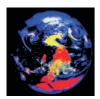


oilcrops oilcrops oil, other oilcrops, other olive oil olives (including preserved) onions oranges, mandarines palm oil palmkernel oil peas pepper pimento pineapples and products plantains potatoes and products pulses pulses, other and products rape and mustard oil rice (milled equivalent) rice (paddy equivalent) ricebran oil roots & tuber dry equiv roots, other rye and products sesame seed sesameseed oil sorghum and products soyabean oil soyabeans spices spices, other starchy roots stimulants sugar & sweeteners sugar (raw equivalent) sugar beet sugar cane sugar crops

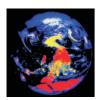
sugar non-centrifugal



```
sugar, raw equivalent
             sugar, refined equiv
             sunflower seed
             sunflowerseed oil
             sweet potatoes
             sweeteners, other
             tea (including mate)
             tomatoes and products
             treenuts
             vegetable oils
             vegetables
             vegetables, other
             vegetal products
             wheat and products
             wine
             yams
- agriculture
      production indices
             gross per capita production index number
                    meat indigenous, total
                    milk, total
                    oilcrops primary
                    roots and tubers, total
                    sugar, raw
                    vegetables and fruit primary
                    agriculture
                    cereals, total
                    crops
                    food
                    livestock
                    non food
             gross production index number
                    meat indigenous, total
                    milk, total
                    oilcrops primary
                    roots and tubers, total
                    sugar, raw
                    vegetables and fruit primary
```



```
agriculture
             cereals, total
             crops
             food
             livestock
             non food
      net per capita production index number
             meat indigenous, total
             milk, total
             oilcrops primary
             roots and tubers, total
             sugar, raw
             vegetables and fruit primary
             agriculture
             cereals, total
             crops
             food
             livestock
             non food
      net production index number
             meat indigenous, total
             milk, total
             oilcrops primary
             roots and tubers, total
             sugar, raw
             vegetables and fruit primary
             agriculture
             cereals, total
             crops
             food
             livestock
             non food
production
      oil crops production in oil equivalent
      agave fibres nes - land use
      agave fibres nes - yield
      agave fibres nes - production
      almonds, with shell - land use
      almonds, with shell - yield
```



almonds, with shell - production

anise, badian, fennel, corian. - land use

anise, badian, fennel, corian. - yield

anise, badian, fennel, corian. - production

apples - land use

apples - yield

apples - production

apricots - land use

apricots - yield

apricots - production

arecanuts - land use

arecanuts - yield

arecanuts - production

artichokes - land use

artichokes - yield

artichokes - production

asparagus - land use

asparagus - yield

asparagus - production

avocados - land use

avocados - yield

avocados - production

bambara beans - seed

bambara beans - land use

bambara beans - yield

bambara beans - production

bananas - land use

bananas - yield

bananas - production

barley - seed

barley - land use

barley - yield

barley - production

beans, dry - seed

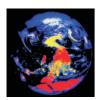
beans, dry - land use

beans, dry - yield

beans, dry - production

beans, green - land use

beans, green - yield



beans, green - production

berries nes - land use

berries nes - yield

berries nes - production

blueberries - land use

blueberries - yield

blueberries - production

brazil nuts, with shell - production

brazil nuts, with shell - land use

brazil nuts, with shell - yield

broad beans, horse beans, dry - land use

broad beans, horse beans, dry - yield

broad beans, horse beans, dry - production

broad beans, horse beans, dry - seed

buckwheat - land use

buckwheat - yield

buckwheat - production

buckwheat - seed

cabbages and other brassicas - land use

cabbages and other brassicas - yield

cabbages and other brassicas - production

cabbages and other brassicas - seed

canary seed - seed

canary seed - land use

canary seed - yield

canary seed - production

carobs - land use

carobs - yield

carobs - production

carrots and turnips - land use

carrots and turnips - yield

carrots and turnips - production

carrots and turnips - seed

cashew nuts, with shell - land use

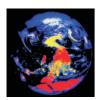
cashew nuts, with shell - vield

cashew nuts, with shell - production

cashewapple - land use

cashewapple - yield

cashewapple - production



cassava - land use

cassava - yield

cassava - production

cassava - seed

cassava leaves - land use

cassava leaves - yield

cassava leaves - production

castor oil seed - seed

castor oil seed - land use

castor oil seed - yield

castor oil seed - production

cauliflowers and broccoli - land use

cauliflowers and broccoli - yield

cauliflowers and broccoli - production

cauliflowers and broccoli - yield

cereals (rice milled) - seed

cereals (rice milled) - land use

cereals (rice milled) - yield

cereals (rice milled) - production

cereals, not identified separately - seed

cereals, not identified separately - land use

cereals, not identified separately - yield

cereals, not identified separately - production

cereals, total - seed

cereals, total - land use

cereals, total - yield

cereals, total - production

cherries - land use

cherries - production

chestnuts - land use

chestnuts - yield

chestnuts - production

chick peas - seed

chick peas - land use

chick peas - yield

chick peas - production

chicory roots - land use

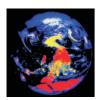
chicory roots - yield

chicory roots - production



```
chillies and peppers, dry - land use
chillies and peppers, dry - yield
chillies and peppers, dry - production
chillies and peppers, green - land use
chillies and peppers, green - yield
chillies and peppers, green - production
cinnamon (canella) - production
cinnamon (canella) - land use
cinnamon (canella) - yield
citrus fruit, not identified separately - land use
citrus fruit, not identified separately - production
citrus fruit, total - land use
citrus fruit, total - yield
citrus fruit, total - production
cloves - land use
cloves - yield
cloves - production
coarse grain, total - seed
coarse grain, total - land use
coarse grain, total - yield
coarse grain, total - production
cocoa beans - land use
cocoa beans - vield
cocoa beans - production
coconuts - land use
coconuts - yield
coconuts - production
coconuts - seed
coffee, green - land use
coffee, green - yield
coffee, green - production
coir - production
cotton lint - production
cottonseed - seed
cottonseed - production
cow peas, dry - seed
cow peas, dry - land use
cow peas, dry - yield
```

cow peas, dry - production



cranberries - land use

cranberries - yield

cranberries - production

cucumbers and gherkins - land use

cucumbers and gherkins - yield

cucumbers and gherkins - production

currants - land use

currants - yield

currants - production

dates - land use

dates - yield

dates - production

eggplants (aubergines) - land use

eggplants (aubergines) - yield

eggplants (aubergines) - production

fibre crops nes - land use

fibre crops nes - yield

fibre crops nes - production

fibre crops primary - land use

fibre crops primary - yield

fibre crops primary - production

fibre crops primary - seed

figs - land use

figs - yield

figs - production

flax fibre and tow - land use

flax fibre and tow - yield

flax fibre and tow - production

fonio - seed

fonio - land use

fonio - yield

fonio - production

fruit excl. melons, total - land use

fruit excl. melons, total - yield

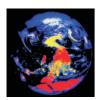
fruit excl. melons, total - production

fruit fresh nes - land use

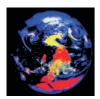
fruit fresh nes - yield

fruit fresh nes - production

fruit, tropical fresh nes - production

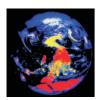


```
fruit, tropical fresh nes - land use
fruit, tropical fresh nes - yield
garlic - land use
garlic - yield
garlic - production
garlic - seed
ginger - land use
ginger - yield
ginger - production
gooseberries - land use
gooseberries - yield
gooseberries - production
grapefruit (inc. pomelos) - land use
grapefruit (inc. pomelos) - yield
grapefruit (inc. pomelos) - production
grapes - land use
grapes - yield
grapes - production
groundnuts, with shell - land use
groundnuts, with shell - yield
groundnuts, with shell - production
groundnuts, with shell - seed
ums natural - production
hazelnuts, with shell - land use
hazelnuts, with shell - yield
hazelnuts, with shell - production
hemp tow waste - land use
hemp tow waste - yield
hemp tow waste - production
hempseed - seed
hempseed - land use
hempseed - yield
hempseed - production
hops - land use
hops - yield
hops - production
ioioba seeds - land use
jojoba seeds - yield
jojoba seeds - production
```



```
jute - land use
jute - yield
jute - production
jute & jute-like fibres - land use
jute & jute-like fibres - yield
jute & jute-like fibres - production
kapok fibre - production
kapok fibre - land use
kapok fibre - yield
kapok fibre - production
kapokseed in shell - production
karite nuts (sheanuts) - land use
karite nuts (sheanuts) - yield
karite nuts (sheanuts) - production
kiwi fruit - land use
kiwi fruit - yield
kiwi fruit - production
kolanuts - land use
kolanuts - yield
kolanuts - production
leeks, other alliaceous veg - land use
leeks, other alliaceous veg - yield
leeks, other alliaceous veg - production
leguminous vegetables, not identified separately - land use
leguminous vegetables, not identified separately - yield
leguminous vegetables, not identified separately - production
lemons and limes - land use
lemons and limes - yield
lemons and limes - production
lentils - seed
lentils - land use
lentils - yield
lentils - production
lettuce and chicory - land use
lettuce and chicory - yield
lettuce and chicory - production
linseed - seed
linseed - land use
```

linseed - yield



linseed - production

lupins - land use

lupins - yield

lupins - production

lupins - seed

maize - seed

maize - land use

maize - yield

maize - production

maize, green - land use

maize, green - yield

maize, green - production

maize, green - seed

mangoes, mangosteens, guavas - land use

mangoes, mangosteens, guavas - yield

mangoes, mangosteens, guavas - production

manila fibre (abaca) - land use

manila fibre (abaca) - yield

manila fibre (abaca) - production

maté - land use

maté - yield

maté - production

melonseed - production

melonseed - seed

melonseed - land use

melonseed - yield

millet - seed

millet - land use

millet - yield

millet - production

mixed grain - seed

mixed grain - land use

mixed grain - yield

mixed grain - production

mushrooms and truffles - production

mushrooms and truffles - land use

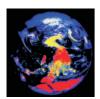
mushrooms and truffles - yield

mustard seed - land use

mustard seed - yield



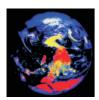
```
mustard seed - production
mustard seed - seed
natural rubber - land use
natural rubber - yield
natural rubber - production
nutmeg, mace and cardamoms - land use
nutmeg, mace and cardamoms - yield
nutmeg, mace and cardamoms - production
nuts, not identified separately - land use
nuts, not identified separately - yield
nuts, not identified separately - production
nuts, not identified separately - seed
oats - seed
oats - land use
oats - yield
oats - production
oil palm fruit - land use
oil palm fruit - yield
oil palm fruit - production
oilcakes equivalent - seed
oilcakes equivalent - land use
oilcakes equivalent - yield
oilcakes equivalent - production
oilcrops primary - seed
oilcrops primary - land use
oilcrops primary - yield
oilcrops primary - production
oilseeds, not identified separately - production
oilseeds, not identified separately - land use
oilseeds, not identified separately - yield
oilseeds, not identified separately - seed
okra - land use
okra - yield
okra - production
okra - seed
lives - land use
lives - yield
olives - production
onions (incl. shallots), green - land use
```



```
onions (incl. shallots), green - yield
onions (incl. shallots), green - production
onions (incl. shallots), green - seed
onions, dry - land use
onions, dry - yield
onions, dry - production
onions, dry - seed
oranges - land use
oranges - yield
oranges - production
other bastfibres - land use
other bastfibres - yield
other bastfibres - production
other melons (incl. cantaloupes) - land use
other melons (incl. cantaloupes) - yield
other melons (incl. cantaloupes) - production
palm kernels - production
palm oil - production
papayas - land use
papayas - yield
papayas - production
peaches and nectarines - land use
peaches and nectarines - vield
peaches and nectarines - production
pears - land use
pears - yield
pears - production
peas, dry - seed
peas, dry - land use
peas, dry - yield
peas, dry - production
peas, green - land use
peas, green - yield
peas, green - production
pepper (piper spp.) - land use
pepper (piper spp.) - yield
pepper (piper spp.) - production
peppermint - production
peppermint - land use
```



```
peppermint - yield
persimmons - land use
persimmons - yield
persimmons - production
pigeon peas - seed
pigeon peas - land use
pigeon peas - yield
pigeon peas - production
pineapples - land use
pineapples - yield
pineapples - production
pistachios - land use
pistachios - yield
pistachios - production
plantains - land use
plantains - yield
plantains - production
plums and sloes - land use
plums and sloes - yield
plums and sloes - production
pome fruit, not identified separately - land use
pome fruit, not identified separately - yield
pome fruit, not identified separately - production
popcorn - land use
popcorn - yield
popcorn - production
poppy seed - seed
poppy seed - land use
poppy seed - yield
poppy seed - production
potatoes - seed
potatoes - land use
potatoes - yield
potatoes - production
pulses, not identified separately - seed
pulses, not identified separately - land use
pulses, not identified separately - yield
pulses, not identified separately - production
pulses, total - seed
```



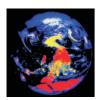
```
pulses, total - land use
pulses, total - yield
pulses, total - production
pumpkins, squash and gourds - land use
pumpkins, squash and gourds - yield
pumpkins, squash and gourds - production
pyrethrum, dried - production
pyrethrum, dried - land use
pyrethrum, dried - yield
quinces - land use
quinces - yield
quinces - production
quinoa - seed
auinoa - land use
quinoa - yield
quinoa - production
ramie - land use
ramie - yield
ramie - production
rapeseed - land use
rapeseed - yield
rapeseed - production
rapeseed - seed
raspberries - land use
raspberries - yield
raspberries - production
rice, paddy - seed
rice, paddy - land use
rice, paddy - yield
rice, paddy - production
roots and tubers, not identified separately - land use
roots and tubers, not identified separately - yield
roots and tubers, not identified separately - production
roots and tubers, not identified separately - seed
roots and tubers, total - seed
roots and tubers, total - land use
roots and tubers, total - yield
roots and tubers, total - production
rye - seed
```



```
rye - land use
rye - yield
rye - production
safflower seed - seed
safflower seed - land use
safflower seed - yield
safflower seed - production
sangerines, mandarins, clem. - land use
sangerines, mandarins, clem. - yield
sangerines, mandarins, clem. - production
seed cotton - land use
seed cotton - yield
seed cotton - production
seed cotton - seed
sesame seed - seed
sesame seed - land use
sesame seed - yield
sesame seed - production
sisal - land use
sisal - yield
sisal - production
sorghum - seed
sorghum - land use
sorghum - yield
sorghum - production
sour cherries - land use
sour cherries - yield
sour cherries - production
sovbeans - seed
soybeans - yield
soybeans - production
spices, not identified separately - land use
spices, not identified separately - yield
spices, not identified separately - production
spinach - land use
spinach - yield
spinach - production
stone fruit, not identified separately - land use
stone fruit, not identified separately - yield
```



```
stone fruit, not identified separately - production
strawberries - production
strawberries - land use
strawberries - yield
string beans - land use
string beans - yield
string beans - production
sugar beet - land use
sugar beet - yield
sugar beet - production
sugar cane - land use
sugar cane - yield
sugar cane - production
sugar cane - seed
sugar crops, not identified separately - land use
sugar crops, not identified separately - yield
sugar crops, not identified separately - production
sunflower seed - seed
sunflower seed - land use
sunflower seed - yield
sunflower seed - production
sweet potatoes - land use
sweet potatoes - yield
sweet potatoes - production
sweet potatoes - seed
taro (cocoyam) - land use
taro (cocoyam) - yield
taro (cocoyam) - production
taro (cocovam) - seed
tea - land use
tea - vield
tea - production
tobacco, unmanufactured - land use
tobacco, unmanufactured - yield
tobacco, unmanufactured - production
tomatoes - land use
tomatoes - yield
tomatoes - production
treenuts, total - land use
```



treenuts, total - yield

treenuts, total - production

treenuts, total - seed

triticale - land use

triticale - yield

triticale - production

triticale - seed

tung Nuts - land use

tung Nuts - yield

tung Nuts - production

vanilla - land use

vanilla - yield

vanilla - production

vegetables & melons, total - land use

vegetables & melons, total - yield

vegetables & melons, total - production

vegetables & melons, total - seed

vegetables fresh nes - production

vegetables fresh nes - seed

vegetables primary - land use

vegetables primary - yield

vegetables primary - production

vegetables primary - seed

vetches - seed

vetches - land use

vetches - yield

vetches - production

walnuts, with shell - land use

walnuts, with shell - yield

walnuts, with shell - production

watermelons - land use

watermelons - production

watermelons - seed

wheat - seed

wheat - land use

wheat - yield

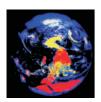
wheat - production

yams - land use

yams - yield



```
yams - production
             yams - seed
             yautia (cocoyam) - land use
             yautia (cocoyam) - yield
             yautia (cocoyam) - production
             yautia (cocoyam) - seed
- farming
      asses stocks
      camels stocks
      cattle stocks
      cattle and buffaloes stocks
      chickens stocks
      goats stocks
      horses stocks
      mules stocks
      poultry stocks
      sheep stocks
      sheep and goats stocks
      beehives stocks
      buffaloes stocks
      ducks stocks
      geese and guinea fowls stocks
      pigs stocks
      turkeys stocks
      rabbits and hares stocks
      other camelids stocks
      other rodents stocks
      pigeons stocks
- fishery
      global production (catches)
             fishery products
                   total all fishing regions
                    inland waters total
      aquaculture production
             fishery products
                    total
                    freshwater
                    brackish water
```



seawater

- forestry

roundwood production - total

- biodiversity

animal species - threatened plant species - threatened total species - threatened

III. Mineral Resources

estimated recoverable coal crude oil reserves natural gas reserves uranium reserves uranium reserves - speculative

IV. Energy Consumption

- by sector

coal

energy industries

manufacturing industries and construction

transport

other (includes agriculture, commercial and public services,

residential, and non-specific other)

total

gas

energy industries

manufacturing industries and construction

transport

other (includes agriculture, commercial and public services,

residential, and non-specific other)

total

oil

energy industries

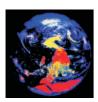
manufacturing industries and construction

transport

other (includes agriculture, commercial and public services,

residential, and non-specific other)

total



```
charcoal
      energy industries
      manufacturing industries and construction
      transport
      other (includes agriculture, commercial and public services,
      residential, and non-specific other)
      total
biomass, wood, waste
      manufacturing industries and construction
      other (includes agriculture, commercial and public services,
      residential, and non-specific other)
      total
all fuels incl. biomass
fossile fuels total
sectoral aggregation
      total and total fossil
      energy industries
      manufacturing industries and construction
      transport
      other (includes agriculture, commercial and public services,
             residential, and non-specific other)
total population
urban population
```

V. Human Resources

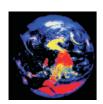
population

 total population
 urban population
 rural population
 population in urban areas
 annual population growth rate
 percentage of population aged 60+ years
 total fertility rate
 population density
 female economically active population in agriculture
 male economically active population in agriculture
 total economically active population in agriculture
 education
 education
 ducation
 education
 education

net primary school enrollment - males net primary school enrollment - females



```
- skills
             adult literacy rate
             illiterate population
VI. Social Conditions
       - health
             diseases
                     population affected by water related disease
                     HIV prevalence aged 15 to 49
                     tuberculosis - incidence
              healthy life expectancy at birth
                     healthy life expectancy at birth - total population
                     healthy life expectancy at birth - males
                     healthy life expectancy at birth - females
             life expectancy at birth
                    life expectancy at birth - total population
                     life expectancy at birth - males
                     life expectancy at birth - females
              mortality
                     children neonatale rate
                     children birth up to age 1
                     children < 5
                     adult (males, females, total)
                     maternal mortality
              expenditure on health
                     private expenditure on health
                     general government expenditure on health
                     external resources for health
                     social security expenditure on health
                     out-of-pocket expenditure on health
                     prepaid plans
                     total expenditure on health
                     per capita government expenditure on health
       - sanitation
       - poverty
             total population
             rural population
              urban population
```

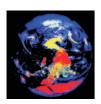


losses/natural disasters *)
 affected people
 killed people

killed people*) natural disasters := drought, earthquake/seismic activity, epidemic, extreme temperature, flood, insect infestation, mass movement: dry and wet, volcanos, wild fire, storm

VII. Economic Core Indicators

GDP production trade exchange rates



Methodologies for the calculation of energy consumption

Introduction

The calculation of energy consumption is based on a sectoral view by using the Tier 1 Sectoral Approach from the Revised 1996 IPCC (Intergovernmental Panel on Climate Change) Guidelines for National Greenhouse Gas Inventories.

Sectors:

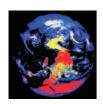
- Energy Sector (IPCC Source/Sink Category 1A1)
- Manufacturing and Construction Sector (IPCC Source/Sink Category 1A2)
- Transport Sector (IPCC Source/Sink Category 1A3)
- Other Sectors (IPCC Source/Sink Category 1A4)

Fuel categories:

- Fossile Fuels Coal Natural Gas
- Charcoal
- Biomass and Wastes

Recalculations

To make data more comparable all energy statistics are recalculated and expressed in Terra Joule (TJ) units. The underlying Net Calorific Values (NCV) are estimated by Kainou Kazunari (Kazunari, Kainou 2005: Revision of default Net Calorific Value, Carbon Content Factor and Carbon Oxidization Factor for various fuels in 2006 IPCC GHG Inventory Guideline) and might differ from the default values as listed in the 1996 IPCC guidelines.



Methodologies for the calculation of greenhouse gas emissions

Introduction

Based on the sectoral energy statistics, as calculated in this publication, the greenhouse gas emissions (CO2, CH4, N2O, NOX, CO, NOVOC) and the emission of sulphur dioxide (SO2) are also determined by the Tier 1 Sectoral Approach from the Revised 1996 IPCC (Intergovernmental Panel on Climate Change) Guidelines for National Greenhouse Gas Inventories.

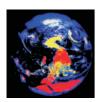
CO2 Emissions

The Carbon Emission Factors (CEF) used here are estimated by Kainou Kazunari (Kazunari, Kainou 2005: Revision of default Net Calorific Value, Carbon Content Factor and Carbon Oxidization Factor for various fuels in 2006 IPCC GHG Inventory Guideline) and might differ from the default values as listed in the 1996 IPCC guidelines.

To harmonise the statistical results the CEF values shown there are used for all countries. Stored carbon is not specially calculated.

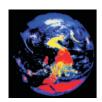
CH4, N2O, NOX, CO, NOVOC, SO2 Emissions

The emission factors could vary from the default values as shown in the Revised 1996 IPCC Guidelines: the sectors "Transport" and "Other Sectors" are calculated on one aggregated level with one emission factor per fuel category only.



Abbreviations

multiplication factors			
	10^15	1 000 000 000 000 000	peta
	10^12	1 000 000 000 000	tera
	10^9	1 000 000 000	giga
	10^6	1 000 000	mega
	10^3	1 000	kilo
	10^-6	0,00001	microgram
units		•	J
	t	metric tonne	
	k	kilogram	
	TJ	tera joule (1 TJ = $2,388*10^{-5}$	Mtoe)
	TJ - net	tera joule - net calorific value	
info note	Mtoe	million tonnes of oil equivalent	
	m^3	cubic metre	
	ha	hectar	
	hg	hectogram	
	°C	degree Celsius	
	yr	year	
	mm	millimetre	
	mio	million	
	%	percent	
	ODP	ozone depleting potential	
	ppm	parts per million	
	ug	microgram	
	kcal	kilocalorie	
<u>chemical compounds</u>			
	CFCs	chlorofluorocarbons	
	CH4	methane	
	CO	carbon monoxide	
	CO2	carbon dioxide	
	HCFCs	hydrochlorofluorocarbons	
	N2O	nitrous oxide	
	NMVOC	non-methane volatile organic co	ompound
	NOX	nitrogen oxides	
	SO2	sulphur dioxide	
standard equivalents			
	1 TJ	23.885 tonnes of oil equivalent	(toe)
	1 t	1.1023 short tons	
	1 ha	10 000 m^2 (square metres)	
	1 hg	0,1 kg	
<u>other</u>	505		
	BOD	biochemical oxygene demand	
	PM 10	particular matter < 10ug	



sources of the underlying data material or methods

CRED Centre for Research on the Epidemiology of Desasters

DSI DSI Data Service & Information
EEA European Environment Agency
EIA Energy Information Administration

Eurostat Statistical Office of the European Communities

FAO Food and Agriculture Organization of the United Nations

IMF International Monetary Fund

IPCC Intergovernmental Panel on Climate Change

IUCN International Union for the Conservation of Nature and

Natural Resources

OECD Organisation for Economic Co-operation and Development

UN United Nations and its specialized agencies

WB World Bank

WDCGG World Data Centre for Greenhouse Gases

WDPA World Database on Protected Areas - WDPA Consortium

WHO World Health Organization