



5.7

Military expenditures and arms transfers

| | Military expenditures | | | | Armed forces personnel | | | | Arms transfers | | | | | |
|--------------------------|-----------------------|------------------|-------------------------------------|-------------------|------------------------|-------|------------------|------|------------------|-------|---------|-------|---------|------|
| | % of GDP | | % of central government expenditure | | thousands | | % of labor force | | 1990 \$ millions | | Exports | | Imports | |
| | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 |
| Afghanistan | .. | 1.5 | .. | 8.7 | 400 | 51 | 6.3 | 0.6 | .. | .. | 33 | 37 | .. | .. |
| Albania | 1.2 | 1.8 | 5.4 | .. | 68 | 15 | 5.2 | 1.0 | .. | .. | 3 | 5 | .. | .. |
| Algeria | 3.4 | 2.9 | 16.5 | 15.7 | 305 | 334 | 2.8 | 2.4 | .. | .. | 428 | 700 | .. | .. |
| Angola | 2.4 | 3.7 | .. | .. | 118 | 117 | 1.9 | 1.6 | 1 | .. | 157 | 4 | .. | .. |
| Argentina | 1.3 | 0.7 | 6.2 | .. | 102 | 107 | 0.6 | 0.6 | 2 | .. | 224 | 41 | .. | .. |
| Armenia | 3.6 | 3.0 | .. | 18.1 | 42 | 42 | 3.1 | 2.8 | .. | .. | 2 | .. | .. | .. |
| Australia | 1.9 | 2.0 | 7.5 | 7.8 | 52 | 55 | 0.5 | 0.5 | 43 | 1 | 366 | 685 | .. | .. |
| Austria | 1.0 | 1.0 | 2.5 | 2.5 | 41 | 35 | 1.0 | 0.8 | 21 | 86 | 25 | 335 | .. | .. |
| Azerbaijan | 2.3 | 3.0 | 13.8 | .. | 87 | 82 | 2.4 | 1.9 | .. | .. | 3 | 27 | .. | .. |
| Bangladesh | 1.4 | 1.1 | 14.9 | 11.7 | 137 | 221 | 0.2 | 0.3 | .. | .. | 205 | 17 | .. | .. |
| Belarus | 1.3 | 1.6 | 5.3 | 4.7 | 91 | 183 | 1.9 | 3.8 | 293 | 35 | 41 | 254 | .. | .. |
| Belgium | 1.4 | 1.1 | 3.2 | 2.6 | 39 | 39 | 0.9 | 0.8 | 22 | 10 | 39 | 171 | .. | .. |
| Benin | 0.6 | 1.1 | 4.7 | 7.6 | 7 | 8 | 0.3 | 0.2 | .. | .. | 6 | 3 | .. | .. |
| Bolivia | 1.7 | 1.2 | 6.5 | 5.7 | 70 | 83 | 2.0 | 1.9 | .. | .. | 19 | 5 | .. | .. |
| Bosnia and Herzegovina | 3.6 | 1.3 | .. | 3.5 | 76 | 9 | 4.1 | 0.5 | 4 | .. | 25 | .. | .. | .. |
| Botswana | 3.0 | 2.6 | .. | .. | 10 | 11 | 1.6 | 1.6 | .. | .. | 50 | .. | .. | .. |
| Brazil | 1.6 | 1.6 | 7.1 | .. | 673 | 721 | 0.8 | 0.7 | 26 | 24 | 126 | 175 | .. | .. |
| Bulgaria | 2.5 | 2.0 | 7.8 | 6.3 | 114 | 75 | 3.5 | 2.2 | 2 | 7 | 7 | 38 | .. | .. |
| Burkina Faso | 1.2 | 1.4 | .. | 9.6 | 11 | 11 | 0.2 | 0.2 | .. | .. | .. | 4 | .. | .. |
| Burundi | 6.0 | 4.8 | 30.3 | .. | 46 | 51 | 1.4 | 1.2 | .. | .. | 1 | .. | .. | .. |
| Cambodia | 2.2 | 0.9 | 16.8 | 12.8 | 360 | 191 | 6.1 | 2.6 | .. | .. | .. | 36 | .. | .. |
| Cameroon | 1.3 | 1.4 | 12.0 | .. | 22 | 23 | 0.4 | 0.3 | .. | .. | 1 | 0 | .. | .. |
| Canada | 1.1 | 1.3 | 6.0 | 7.0 | 69 | 64 | 0.4 | 0.3 | 109 | 343 | 560 | 623 | .. | .. |
| Central African Republic | 1.0 | 1.1 | .. | .. | 5 | 3 | 0.3 | 0.2 | .. | .. | .. | 9 | .. | .. |
| Chad | 1.9 | 1.0 | .. | .. | 35 | 35 | 1.0 | 0.8 | .. | .. | 15 | 3 | .. | .. |
| Chile | 3.7 | 3.4 | 17.7 | 19.5 | 117 | 103 | 1.9 | 1.5 | 1 | .. | 177 | 615 | .. | .. |
| China | 1.8 ^a | 2.0 ^a | 19.6 ^a | 17.9 ^a | 3,910 | 2,885 | 0.5 | 0.4 | 228 | 355 | 1,874 | 1,424 | .. | .. |
| Hong Kong, China | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |
| Colombia | 3.6 | 3.1 | 19.0 | 12.3 | 247 | 411 | 1.3 | 1.8 | .. | .. | 62 | 38 | .. | .. |
| Congo, Dem. Rep. | 1.0 | 1.7 | 11.4 | .. | 93 | 143 | 0.5 | 0.6 | .. | .. | 41 | 17 | .. | .. |
| Congo, Rep. | 1.4 | 1.1 | 5.9 | 5.2 | 15 | 12 | 1.2 | 0.8 | .. | .. | 0 | 1 | .. | .. |
| Costa Rica | .. | .. | .. | .. | 15 | 10 | 0.9 | 0.5 | .. | .. | .. | .. | .. | .. |
| Côte d'Ivoire | .. | 1.5 | .. | 7.1 | 15 | 19 | 0.2 | 0.3 | .. | .. | 32 | .. | .. | .. |
| Croatia | 3.6 | 2.0 | 7.8 | 5.0 | 101 | 21 | 5.0 | 1.1 | 2 | .. | 70 | 14 | .. | .. |
| Cuba | .. | .. | .. | .. | 85 | 76 | 1.6 | 1.5 | .. | .. | .. | .. | .. | .. |
| Czech Republic | 2.0 | 1.5 | 6.1 | 4.5 | 63 | 27 | 1.2 | 0.5 | 78 | 13 | 16 | 15 | .. | .. |
| Denmark | 1.5 | 1.3 | 4.2 | 3.7 | 22 | 30 | 0.8 | 1.0 | 20 | 5 | 64 | 201 | .. | .. |
| Dominican Republic | 0.9 | 0.5 | .. | 3.5 | 40 | 65 | 1.1 | 1.5 | .. | .. | 13 | 2 | .. | .. |
| Ecuador | 1.7 | 2.8 | .. | .. | 58 | 58 | 1.2 | 1.0 | .. | .. | 12 | 45 | .. | .. |
| Egypt, Arab Rep. | 3.2 | 2.5 | 12.3 | 8.4 | 679 | 866 | 3.4 | 3.6 | 38 | .. | 826 | 418 | .. | .. |
| El Salvador | 0.9 | 0.6 | 4.3 | 3.3 | 29 | 33 | 1.2 | 1.2 | .. | .. | 16 | .. | .. | .. |
| Eritrea | 36.4 | .. | .. | .. | 200 | 202 | 14.1 | 10.4 | 0 | .. | 4 | 271 | .. | .. |
| Estonia | 1.4 | 1.9 | 4.7 | 7.0 | 8 | 7 | 1.1 | 1.0 | .. | .. | 27 | 30 | .. | .. |
| Ethiopia | 7.6 | 1.9 | 18.0 | .. | 353 | 138 | 1.2 | 0.4 | .. | .. | 125 | .. | .. | .. |
| Finland | 1.3 | 1.3 | 3.7 | 3.7 | 35 | 32 | 1.4 | 1.2 | 9 | 24 | 518 | 110 | .. | .. |
| France | 2.5 | 2.3 | 5.7 | 5.3 | 389 | 353 | 1.5 | 1.3 | 1,033 | 2,690 | 58 | 63 | .. | .. |
| Gabon | 1.8 | 1.1 | .. | .. | 7 | 7 | 1.3 | 1.1 | .. | .. | .. | 21 | .. | .. |
| Gambia, The | 0.8 | 0.6 | .. | .. | 1 | 1 | 0.1 | 0.1 | .. | .. | .. | .. | .. | .. |
| Georgia | 0.6 | 7.5 | 5.3 | 32.7 | 33 | 33 | 1.4 | 1.4 | 22 | .. | 6 | 4 | .. | .. |
| Germany | 1.5 | 1.3 | 4.7 | 4.4 | 221 | 244 | 0.5 | 0.6 | 1,622 | 3,395 | 135 | 85 | .. | .. |
| Ghana | 1.0 | 0.7 | 3.3 | 2.6 | 8 | 14 | 0.1 | 0.1 | .. | .. | 1 | 13 | .. | .. |
| Greece | 4.3 | 3.5 | 9.8 | 8.3 | 163 | 161 | 3.4 | 3.1 | 2 | 23 | 651 | 2,089 | .. | .. |
| Guatemala | 0.8 | 0.5 | 7.5 | 3.6 | 53 | 35 | 1.7 | 0.7 | .. | .. | 1 | .. | .. | .. |
| Guinea | 1.5 | .. | 11.8 | .. | 19 | 19 | 0.5 | 0.4 | .. | .. | 19 | .. | .. | .. |
| Guinea-Bissau | 4.4 | 4.0 | .. | .. | 9 | 9 | 1.8 | 1.4 | .. | .. | .. | .. | .. | .. |
| Haiti | .. | .. | .. | .. | 5 | 0 | 0.2 | 0.0 | .. | .. | .. | .. | .. | .. |

Military expenditures and arms transfers

5.7

| | Military expenditures | | | | Armed forces personnel | | | | Arms transfers | | | |
|--------------------|-----------------------|------|-------------------------------------|------|------------------------|-------|------------------|------|------------------|---------|-------|-------|
| | % of GDP | | % of central government expenditure | | thousands | | % of labor force | | 1990 \$ millions | | | |
| | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | Exports | Imports | 2000 | 2007 |
| Honduras | 0.5 | 0.6 | .. | 2.8 | 14 | 20 | 0.6 | 0.8 | .. | .. | .. | .. |
| Hungary | 1.7 | 1.1 | 4.1 | 2.6 | 58 | 37 | 1.4 | 0.9 | .. | 6 | 14 | 192 |
| India | 3.1 | 2.5 | 19.5 | 16.5 | 2,372 | 2,576 | 0.6 | 0.6 | 16 | 14 | 826 | 1,318 |
| Indonesia | 1.0 | 1.2 | 5.7 | .. | 492 | 582 | 0.5 | 0.5 | 16 | 8 | 170 | 475 |
| Iran, Islamic Rep. | 3.8 | 3.0 | 22.5 | 14.7 | 753 | 563 | 3.6 | 2.0 | 0 | 10 | 413 | 297 |
| Iraq | .. | .. | .. | .. | 479 | 362 | 7.8 | 5.0 | .. | .. | .. | 244 |
| Ireland | 0.7 | 0.5 | 2.6 | 1.6 | 12 | 10 | 0.7 | 0.5 | .. | .. | 0 | 13 |
| Israel | 7.9 | 8.3 | 17.6 | 19.8 | 181 | 185 | 7.3 | 6.5 | 316 | 238 | 364 | 891 |
| Italy | 2.0 | 1.8 | 5.2 | 4.5 | 503 | 436 | 2.1 | 1.7 | 192 | 562 | 241 | 176 |
| Jamaica | 0.5 | 0.7 | 1.5 | 1.1 | 3 | 3 | 0.3 | 0.3 | .. | .. | 5 | 1 |
| Japan | 1.0 | 0.9 | .. | .. | 249 | 242 | 0.4 | 0.4 | .. | .. | 431 | 519 |
| Jordan | 6.2 | 6.9 | 23.1 | 19.0 | 149 | 111 | 11.6 | 6.8 | .. | 13 | 130 | 83 |
| Kazakhstan | 0.8 | 1.2 | 5.7 | 8.5 | 99 | 81 | 1.3 | 1.0 | 16 | 12 | 144 | 21 |
| Kenya | 1.3 | 1.8 | 7.8 | 9.3 | 27 | 29 | 0.2 | 0.2 | .. | .. | .. | 25 |
| Korea, Dem. Rep. | .. | .. | .. | .. | 1,244 | 1,295 | 11.2 | 10.4 | 13 | .. | 19 | 9 |
| Korea, Rep. | 2.5 | 2.7 | 14.4 | 13.3 | 688 | 692 | 3.0 | 2.8 | 8 | 214 | 1,266 | 1,807 |
| Kuwait | 7.1 | 4.3 | 18.9 | 13.5 | 20 | 23 | 1.8 | 1.7 | 99 | .. | 245 | 117 |
| Kyrgyz Republic | 2.9 | 3.3 | 18.0 | 18.1 | 14 | 21 | 0.7 | 0.9 | .. | .. | .. | 1 |
| Lao PDR | 2.0 | .. | .. | .. | 129 | 129 | 5.4 | 4.5 | .. | .. | 7 | 4 |
| Latvia | 0.9 | 1.8 | 3.2 | 6.6 | 9 | 17 | 0.8 | 1.4 | .. | .. | 3 | 51 |
| Lebanon | 5.5 | 5.8 | 17.7 | 17.9 | 77 | 76 | 5.8 | 5.1 | 45 | .. | 4 | 3 |
| Lesotho | 3.6 | 2.5 | 7.8 | 5.3 | 2 | 2 | 0.3 | 0.2 | .. | .. | 6 | 1 |
| Liberia | .. | 0.8 | .. | .. | 15 | 2 | 1.3 | 0.1 | .. | .. | 8 | .. |
| Libya | 3.1 | 1.1 | .. | .. | 77 | 76 | 4.1 | 3.4 | 11 | 9 | 145 | 3 |
| Lithuania | 1.4 | 1.2 | 5.2 | 3.9 | 17 | 24 | 1.0 | 1.5 | 3 | .. | 5 | 4 |
| Macedonia, FYR | 1.9 | 2.1 | .. | .. | 24 | 19 | 2.8 | 2.1 | 0 | .. | 11 | 0 |
| Madagascar | 1.2 | 1.1 | 11.5 | 10.0 | 29 | 22 | 0.4 | 0.2 | .. | .. | .. | .. |
| Malawi | 0.7 | 1.2 | .. | .. | 6 | 7 | 0.1 | 0.1 | 1 | .. | .. | .. |
| Malaysia | 1.6 | 2.1 | 10.5 | .. | 116 | 134 | 1.2 | 1.2 | 8 | .. | 40 | 550 |
| Mali | 2.4 | 2.3 | 20.7 | 15.3 | 15 | 12 | 0.6 | 0.4 | .. | .. | 7 | 7 |
| Mauritania | 3.5 | 3.1 | .. | .. | 21 | 21 | 2.0 | 1.6 | .. | .. | 31 | .. |
| Mauritius | 0.2 | 0.2 | 1.0 | 0.8 | 2 | 2 | 0.3 | 0.3 | .. | .. | .. | 4 |
| Mexico | 0.5 | 0.4 | 3.4 | .. | 208 | 286 | 0.5 | 0.6 | .. | .. | 227 | 11 |
| Moldova | 0.4 | 0.4 | 1.4 | 1.3 | 13 | 9 | 0.7 | 0.6 | 3 | 4 | .. | .. |
| Mongolia | 2.2 | 1.2 | .. | 5.0 | 16 | 16 | 1.7 | 1.4 | .. | .. | .. | .. |
| Morocco | 2.3 | 3.2 | 12.0 | 11.0 | 241 | 246 | 2.4 | 2.2 | .. | .. | 123 | 44 |
| Mozambique | 1.3 | 0.9 | .. | .. | 6 | 11 | 0.1 | 0.1 | .. | .. | 0 | .. |
| Myanmar | 2.3 | .. | .. | .. | 429 | 513 | 1.7 | 1.8 | .. | .. | 3 | 20 |
| Namibia | 2.7 | 3.4 | 8.6 | .. | 9 | 15 | 1.5 | 2.2 | .. | .. | 18 | 72 |
| Nepal | 1.0 | 1.5 | .. | 12.6 | 90 | 131 | 1.0 | 1.1 | .. | .. | 11 | 5 |
| Netherlands | 1.6 | 1.5 | 4.0 | 3.6 | 57 | 41 | 0.7 | 0.5 | 259 | 1,355 | 142 | 210 |
| New Zealand | 1.2 | 1.1 | 3.5 | 3.2 | 9 | 9 | 0.5 | 0.4 | 1 | .. | 45 | 70 |
| Nicaragua | 0.8 | 0.7 | 4.7 | 3.5 | 16 | 14 | 0.9 | 0.6 | .. | .. | .. | .. |
| Niger | 1.1 | 1.0 | .. | 10.6 | 11 | 10 | 0.3 | 0.2 | .. | .. | .. | 0 |
| Nigeria | 0.8 | 0.6 | .. | .. | 107 | 162 | 0.3 | 0.4 | .. | .. | 42 | 15 |
| Norway | 1.7 | 1.4 | 5.3 | 4.5 | 27 | 19 | 1.1 | 0.8 | 3 | 14 | 263 | 483 |
| Oman | 10.6 | 11.3 | 40.4 | .. | 48 | 47 | 5.4 | 4.9 | .. | 1 | 120 | 4 |
| Pakistan | 4.0 | 3.5 | 23.4 | 21.7 | 900 | 921 | 2.2 | 1.6 | 3 | 9 | .. | .. |
| Panama | 1.0 | .. | 4.6 | .. | 12 | 12 | 0.9 | 0.8 | .. | .. | 0 | .. |
| Papua New Guinea | 0.9 | 0.5 | 2.9 | .. | 4 | 3 | 0.2 | 0.1 | .. | .. | .. | .. |
| Paraguay | 1.1 | 0.8 | .. | 4.5 | 35 | 26 | 1.4 | 0.8 | .. | .. | 6 | 1 |
| Peru | 1.7 | 1.1 | 9.7 | 6.7 | 193 | 198 | 1.7 | 1.4 | 4 | .. | 24 | 172 |
| Philippines | 1.1 | 0.8 | 6.2 | 4.7 | 149 | 147 | 0.5 | 0.4 | .. | 4 | 9 | 28 |
| Poland | 1.9 | 2.0 | 5.7 | 5.8 | 239 | 142 | 1.4 | 0.8 | 43 | 135 | 159 | 985 |
| Portugal | 2.0 | 1.7 | 5.1 | 4.2 | 91 | 91 | 1.7 | 1.6 | .. | 30 | 2 | 2 |
| Puerto Rico | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. | .. |



5.7

Military expenditures and arms transfers

| | Military expenditures | | | | Armed forces personnel | | | | Arms transfers | | | | | |
|--------------------------------|-----------------------|--------------|-------------------------------------|---------------|------------------------|-----------------|------------------|--------------|------------------|-----------------|-----------------|-----------------|---------|------|
| | % of GDP | | % of central government expenditure | | thousands | | % of labor force | | 1990 \$ millions | | Exports | | Imports | |
| | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 | 2000 | 2007 |
| Romania | 2.5 | 1.8 | 8.9 | 6.8 | 283 | 153 | 2.4 | 1.6 | 3 | 16 | 23 | 70 | | |
| Russian Federation | 3.7 | 3.6 | 19.3 | 15.4 | 1,427 | 1,476 | 2.0 | 1.9 | 4,190 | 4,588 | .. | 4 | | |
| Rwanda | 3.5 | 1.7 | .. | .. | 76 | 35 | 2.1 | 0.8 | .. | .. | 14 | 3 | | |
| Saudi Arabia | 10.6 | 9.3 | .. | .. | 217 | 238 | 3.2 | 2.7 | .. | 36 | 81 | 72 | | |
| Senegal | 1.3 | 1.7 | 10.4 | .. | 15 | 19 | 0.4 | 0.4 | .. | .. | .. | 15 | | |
| Serbia | 5.4 | 2.4 | .. | .. | 136 | 24 | .. | 0.8 | 7 | 5 | 1 | .. | | |
| Sierra Leone | 3.7 | 1.8 | 12.8 | .. | 4 | 11 | 0.2 | 0.5 | .. | .. | 13 | .. | | |
| Singapore | 4.7 | 4.3 | 28.7 | 31.5 | 169 | 167 | 8.2 | 6.8 | 10 | 3 | 612 | 707 | | |
| Slovak Republic | 1.7 | 1.7 | .. | 5.4 | 41 | 17 | 1.6 | 0.6 | 92 | 7 | 2 | 4 | | |
| Slovenia | 1.1 | 1.5 | 2.9 | 4.0 | 14 | 12 | 1.4 | 1.2 | .. | .. | 1 | 2 | | |
| Somalia | .. | .. | .. | .. | 50 | .. | 1.8 | .. | .. | .. | 1 | .. | | |
| South Africa | 1.6 | 1.4 | 5.6 | 4.7 | 72 | 62 | 0.5 | 0.4 | 18 | 80 | 16 | 855 | | |
| Spain | 1.2 | 1.2 | 3.9 | 4.7 | 242 | 222 | 1.3 | 1.0 | 46 | 529 | 332 | 385 | | |
| Sri Lanka | 4.5 | 2.9 | 19.7 | 14.6 | 204 | 213 | 2.6 | 2.4 | .. | .. | 226 | 1 | | |
| Sudan | 4.7 | 4.3 | 53.0 | .. | 120 | 127 | 1.2 | 1.1 | .. | .. | 146 | 49 | | |
| Swaziland | 1.8 | .. | .. | .. | 3 | .. | 0.8 | .. | .. | .. | 1 | .. | | |
| Sweden | 2.0 | 1.3 | 5.5 | .. | 88 | 18 | 1.9 | 0.4 | 308 | 413 | 210 | 85 | | |
| Switzerland | 1.1 | 0.8 | 4.2 | 4.4 | 28 | 23 | 0.7 | 0.5 | 104 | 211 | 14 | 126 | | |
| Syrian Arab Republic | 5.4 | 3.9 | .. | .. | 425 | 401 | 8.8 | 6.3 | .. | 3 | 439 | 30 | | |
| Tajikistan | 1.2 | .. | 13.4 | .. | 7 | 17 | 0.4 | 0.7 | .. | .. | .. | 13 | | |
| Tanzania | 1.5 | 1.0 | .. | .. | 35 | 28 | 0.2 | 0.1 | .. | .. | .. | 9 | | |
| Thailand | 1.4 | 1.4 | .. | 7.8 | 417 | 420 | 1.2 | 1.1 | .. | .. | 93 | 9 | | |
| Timor-Leste | .. | .. | .. | .. | .. | 1 | .. | 0.2 | .. | .. | .. | .. | | |
| Togo | .. | 1.6 | .. | 9.8 | 8 | 10 | 0.4 | 0.4 | .. | .. | .. | .. | | |
| Trinidad and Tobago | .. | .. | .. | .. | 8 | 4 | 1.3 | 0.6 | .. | .. | 10 | .. | | |
| Tunisia | 1.7 | 1.4 | 6.2 | 4.9 | 47 | 48 | 1.5 | 1.3 | .. | .. | 11 | 18 | | |
| Turkey | 3.7 | 2.1 | .. | 8.6 | 828 | 612 | 3.5 | 2.5 | 15 | 33 | 1,042 | 944 | | |
| Turkmenistan | 2.9 | .. | .. | .. | 15 | 22 | 0.8 | 1.0 | .. | .. | .. | .. | | |
| Uganda | 2.5 | 1.7 | 16.0 | 12.4 | 51 | 47 | 0.5 | 0.3 | .. | .. | 6 | 5 | | |
| Ukraine | 3.6 | 2.9 | 13.5 | 8.3 | 420 | 215 | 1.8 | 0.9 | 280 | 109 | 0 | .. | | |
| United Arab Emirates | 3.4 | 1.9 | 45.7 | .. | 66 | 51 | 3.5 | 1.9 | .. | 3 | 309 | 1,040 | | |
| United Kingdom | 2.4 | 2.5 | 6.7 | 6.2 | 213 | 160 | 0.7 | 0.5 | 1,356 | 1,151 | 808 | 698 | | |
| United States | 3.1 | 4.2 | 15.6 | 19.4 | 1,455 | 1,555 | 1.0 | 1.0 | 7,505 | 7,454 | 268 | 587 | | |
| Uruguay | 1.5 | 1.3 | 5.0 | 4.8 | 25 | 26 | 1.6 | 1.6 | 1 | .. | 4 | 33 | | |
| Uzbekistan | 0.8 | .. | .. | .. | 79 | 87 | 0.8 | 0.7 | 73 | 4 | 6 | .. | | |
| Venezuela, RB | 1.2 | 1.1 | 5.4 | 5.2 | 79 | 115 | 0.8 | 0.9 | .. | 1 | 89 | 887 | | |
| Vietnam | .. | .. | .. | .. | 524 | 495 | 1.4 | 1.1 | .. | .. | 5 | 1 | | |
| West Bank and Gaza | .. | .. | .. | .. | .. | 56 | .. | 6.8 | .. | .. | .. | 2 | | |
| Yemen, Rep. | 5.0 | 4.7 | 23.9 | .. | 136 | 138 | 3.4 | 2.6 | .. | .. | 158 | 57 | | |
| Zambia | 1.8 | 1.8 | 10.3 | 7.6 | 23 | 16 | 0.6 | 0.4 | .. | .. | 27 | 3 | | |
| Zimbabwe | 0.0 | 0.0 | .. | .. | 62 | 51 | 1.2 | 0.9 | 3 | .. | 2 | 20 | | |
| World | 2.3 w | 2.5 w | 10.2 w | 11.2 w | 29,353 s | 27,254 s | 1.0 w | 0.9 w | 18,266 s | 24,192 s | 18,066 s | 23,493 s | | |
| Low income | 2.4 | 1.8 | .. | .. | 5,806 | 5,359 | 1.3 | 1.0 | 17 | 9 | 724 | 148 | | |
| Middle income | 2.0 | 2.0 | 15.3 | 14.2 | 17,507 | 16,185 | 0.9 | 0.8 | 5,135 | 5,459 | 8,181 | 10,718 | | |
| Lower middle income | 2.2 | 2.1 | 17.3 | 15.6 | 12,481 | 11,528 | 0.8 | 0.7 | 549 | 481 | 5,846 | 5,396 | | |
| Upper middle income | 1.9 | 1.9 | .. | .. | 5,026 | 4,657 | 1.4 | 1.2 | 4,586 | 4,978 | 2,335 | 5,322 | | |
| Low & middle income | 2.1 | 2.0 | 15.3 | 14.2 | 23,313 | 21,544 | 1.0 | 0.8 | 5,152 | 5,459 | 8,905 | 10,866 | | |
| East Asia & Pacific | 1.7 | 1.8 | 18.4 | 16.8 | 7,794 | 6,815 | 0.8 | 0.6 | 241 | 359 | 2,211 | 2,532 | | |
| Europe & Central Asia | 3.1 | 2.7 | 12.6 | 11.0 | 4,220 | 3,394 | 2.1 | 1.6 | 4,869 | 4,973 | 1,397 | 2,163 | | |
| Latin America & Carib. | 1.4 | 1.3 | 6.5 | .. | 2,084 | 2,408 | 0.9 | 0.9 | 4 | 25 | 966 | 1,978 | | |
| Middle East & N. Africa | 3.5 | 3.0 | 13.1 | 13.5 | 3,379 | 3,289 | 4.0 | 3.1 | 0 | 22 | 2,522 | 1,824 | | |
| South Asia | 3.1 | 2.6 | 19.9 | 16.9 | 4,114 | 4,113 | 0.8 | 0.7 | 19 | 23 | 1,257 | 1,373 | | |
| Sub-Saharan Africa | 1.8 | 1.5 | .. | .. | 1,724 | 1,525 | 0.7 | 0.5 | 19 | 80 | 552 | 996 | | |
| High income | 2.3 | 2.6 | 10.0 | 10.6 | 6,040 | 5,710 | 1.2 | 1.1 | 13,114 | 18,733 | 9,161 | 12,627 | | |
| Euro area | 1.8 | 1.6 | 4.8 | 4.6 | 1,820 | 1,690 | 1.3 | 1.1 | 3,204 | 8,681 | 2,146 | 3,641 | | |

Note: For some countries data are partial or uncertain or based on rough estimates; see SIPRI (2008).

a. Estimates differ from official statistics of the government of China, which has published the following estimates: military expenditure as 1.2 percent of GDP in 2000 and 1.4 percent in 2006 and 7.6 percent of central government expenditure in 2000 and 7.4 percent in 2006 (see National Bureau of Statistics of China, www.stats.gov.cn).

About the data

Although national defense is an important function of government and security from external threats that contributes to economic development, high levels of military expenditures for defense or civil conflicts burden the economy and may impede growth. Data on military expenditures as a share of gross domestic product (GDP) are a rough indicator of the portion of national resources used for military activities and of the burden on the national economy. As an “input” measure military expenditures are not directly related to the “output” of military activities, capabilities, or security. Comparisons of military spending between countries should take into account the many factors that influence perceptions of vulnerability and risk, including historical and cultural traditions, the length of borders that need defending, the quality of relations with neighbors, and the role of the armed forces in the body politic.

Data on military spending reported by governments are not compiled using standard definitions. They are often incomplete and unreliable. Even in countries where the parliament vigilantly reviews budgets and spending, military expenditures and arms transfers rarely receive close scrutiny or full, public disclosure (see Ball 1984 and Happe and Wakeman-Linn 1994). Therefore, SIPRI has adopted a definition of military expenditure derived from the North Atlantic Treaty Organization (NATO) definition (see *Definitions*). The data on military expenditures as a share of GDP and as a share of central government expenditure are estimated by the Stockholm International Peace Research Institute (SIPRI). Central government expenditures are from the International Monetary Fund (IMF). Therefore the data in the table may differ from comparable data published by national governments.

SIPRI's primary source of military expenditure data is official data provided by national governments. These data are derived from national budget documents, defense white papers, and other public documents from official government agencies, including governments' responses to questionnaires sent by SIPRI, the United Nations, or the Organization for Security and Co-operation in Europe. Secondary sources include international statistics, such as those of NATO and the IMF's *Government Finance Statistics Yearbook*. Other secondary sources include country reports of the Economist Intelligence Unit, country reports by IMF staff, and specialist journals and newspapers.

In the many cases where SIPRI cannot make independent estimates, it uses the national data provided. Because of the differences in definitions and the difficulty in verifying the accuracy and

completeness of data, data on military expenditures are not strictly comparable across countries. More information on SIPRI's military expenditure project can be found at www.sipri.org/contents/milap/.

Data on armed forces refer to military personnel on active duty, including paramilitary forces. Because data exclude personnel not on active duty, they underestimate the share of the labor force working for the defense establishment. Governments rarely report the size of their armed forces, so such data typically come from intelligence sources.

SIPRI's Arms Transfers Project collects data on arms transfers from open sources. Since publicly available information is inadequate for tracking all weapons and other military equipment, SIPRI covers only what it terms *major conventional weapons*. Data cover the supply of weapons through sales, aid, gifts, and manufacturing licenses; therefore the term *arms transfers* rather than *arms trade* is used. SIPRI data also cover weapons supplied to or from rebel forces in an armed conflict as well as arms deliveries for which neither the supplier nor the recipient can be identified with acceptable certainty; these data are available in SIPRI's database.

SIPRI's estimates of arms transfers are designed as a trend-measuring device in which similar weapons have similar values, reflecting both the value and quality of weapons transferred. SIPRI cautions that the estimated values do not reflect financial value (payments for weapons transferred) because reliable data on the value of the transfer are not available, and even when values are known, the transfer usually includes more than the actual conventional weapons, such as spares, support systems, and training, and details of the financial arrangements (such as credit and loan conditions and discounts) are usually not known.

Given these measurement issues, SIPRI's method of estimating the transfer of military resources includes an evaluation of the technical parameters of the weapons. Weapons for which a price is not known are compared with the same weapons for which actual acquisition prices are available (core weapons) or for the closest match. These weapons are assigned a value in an index that reflects their military resource value in relation to the core weapons. These matches are based on such characteristics as size, performance, and type of electronics, and adjustments are made for secondhand weapons. More information on SIPRI's Arms Transfers Project is available at www.sipri.org/contents/armstrad/.

Definitions

- **Military expenditures** are SIPRI data derived from the NATO definition, which includes all current and capital expenditures on the armed forces, including peacekeeping forces; defense ministries and other government agencies engaged in defense projects; paramilitary forces, if judged to be trained and equipped for military operations; and military space activities. Such expenditures include military and civil personnel, including retirement pensions and social services for military personnel; operation and maintenance; procurement; military research and development; and military aid (in the military expenditures of the donor country). Excluded are civil defense and current expenditures for previous military activities, such as for veterans benefits, demobilization, and weapons conversion and destruction. This definition cannot be applied for all countries, however, since that would require more detailed information than is available about military budgets and off-budget military expenditures (for example, whether military budgets cover civil defense, reserves and auxiliary forces, police and paramilitary forces, and military pensions).

- **Armed forces personnel** are active duty military personnel, including paramilitary forces if the training, organization, equipment, and control suggest they may be used to support or replace regular military forces. Reserve forces, which are not fully staffed or operational in peace time, are not included. The data also exclude civilians in the defense establishment and so are not consistent with the data on military expenditures on personnel.
- **Arms transfers** cover the supply of military weapons through sales, aid, gifts, and manufacturing licenses. Weapons must be transferred voluntarily by the supplier, have a military purpose, and be destined for the armed forces, paramilitary forces, or intelligence agencies of another country. The trends shown in the table are based on actual deliveries only. Data cover major conventional weapons such as aircraft, armored vehicles, artillery, radar systems, missiles, and ships designed for military use. Excluded are transfers of other military equipment such as small arms and light weapons, trucks, small artillery, ammunition, support equipment, technology transfers, and other services.

Data sources

Data on military expenditures are from SIPRI's *Yearbook 2008: Armaments, Disarmament, and International Security*. Data on armed forces personnel are from the International Institute for Strategic Studies' *The Military Balance 2009*. Data on arms transfers are from SIPRI's Arms Transfer Project (www.sipri.org/contents/armstrad/).