



Computation of long-term annual renewable water resources (RWR) by country (in km<sup>3</sup>/year, average)

**Panama**

| Internal RWR                                    |            |  |
|---|------------|--|
| Precipitation (mm/year)                         | [1]        | 2 928                                  |
| Area of the country (1000 ha)                   | [2]        | 7 542                                  |
| Precipitation (km <sup>3</sup> /year)           | [3]        | 220.8 =([1]/1000000)x([2]x10)          |
| Surface water: produced internally              | [4]        | 133.2 (a)                              |
| Groundwater: produced internally                | [5]        | 21                                     |
| Overlap between surface water and groundwater   | [6]        | 17.6                                   |
| <b>Total internal renewable water resources</b> | [7]        | 136.6 =[4]+[5]-[6]                     |
| External RWR                                    |            |  |
|   | Total      | Accounted                              |
| <u>Surface water</u>                            |            |  |
| Surface water entering the country              | [b]        | 0                                      |
| Inflow not submitted to treaties                |            | [8] 0                                  |
| Inflow submitted to treaties                    |            | 0                                      |
| Inflow secured through treaties                 |            | [9] 0                                  |
| Flow in border rivers                           | [10] 5.409 | [10] 2.704                             |
| Accounted inflow                                |            | [11] 2.704 =[8]+[9]+[10]               |
| Surface water leaving the country               | [b]        | 0                                      |
| Outflow not submitted to treaties               |            | 0                                      |
| Outflow submitted to treaties                   |            | 0                                      |
| Outflow secured through treaties                |            | [12] 0                                 |
| Total external renewable surface water          |            | [13] 2.704 =[11]-[12]                  |
| <u>Groundwater</u>                              |            |  |
| Groundwater entering the country                | [b]        | [14] 0                                 |
| Groundwater leaving the country                 | [b]        | 0                                      |
| <b>Total external renewable water resources</b> |            | [15] 2.704 =[13]+[14]                  |
| Total RWR                                       |            |  |
| Surface water                                   | [16]       | 135.9 =[4]+[13]                        |
| Groundwater                                     | [17]       | 21 =[5]+[14]                           |
| Overlap between surface water and groundwater   | [6]        | 17.6                                   |
| <b>Total renewable water resources</b>          | [18]       | 139.3 =[16]+[17]-[6]                   |
| Dependency ratio (%)                            | [19]       | 1.941 =100*([11]+[14])/([11]+[14]+[7]) |

Metadata:

(a) Periodo 1971-2002

(b) FROM: Costa Rica: 5.409/2 (Sixaola [border- CRI/PAN])