Bamboo forest trends
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Beijing
Some basic facts

**Bamboo** accounts for 1500 species in 90 genera, only 50 domesticated yet
1 billion people live in bamboo houses
2,5 billion depend on bamboo
Annual trade 5 billion USD (tropical timber 8 billion USD)
Total area exceeds 1% of tropical and subtropical forest, i.e. 22 million ha

**Rattan** has 600 species in 13 genera
## Forest Area, 1990-2000

<table>
<thead>
<tr>
<th>Country</th>
<th>% of land area</th>
<th>Total forest, 1990 ('000ha)</th>
<th>Total forest, 2000 ('000ha)</th>
<th>Annual change ('000ha)</th>
<th>Rate of change (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethiopia</td>
<td>4.2</td>
<td>4996</td>
<td>4593</td>
<td>-40</td>
<td>8.7</td>
</tr>
<tr>
<td>Kenya</td>
<td>30.0</td>
<td>18027</td>
<td>17096</td>
<td>-93</td>
<td>5.4</td>
</tr>
<tr>
<td>Tanzania</td>
<td>43.9</td>
<td>30724</td>
<td>38811</td>
<td>-91</td>
<td>2.3</td>
</tr>
<tr>
<td>Uganda</td>
<td>21.0</td>
<td>5103</td>
<td>4190</td>
<td>-91</td>
<td>21.7</td>
</tr>
</tbody>
</table>

Source: State of the world's forests, 2001, FAO
Bamboo is a superior substitute for wood.

Bamboo can be eaten, processed into a plate to eat off, a table to put the plate on, a floor to stand the table on, and to top off it, a house to put all that and ourselves in...
Add up: bamboo scaffolds to build your house.
Bamboo roof
to keep your house dry
Bamboo doors and windows to keep your house safe
Bamboo biogas
to cook your food and light up your house
Bamboo charcoal

to warm up your house…

and to keep it clean…
Bamboo cloth

to sleep on it and dress it on
Bamboo gas
to fill in your fuel tank
Bamboo paper to write your letters on
Bamboo garden in your back yard to provide you shade
Bamboo baskets

to keep your stuff in
Bamboo medicine and perfume

to keep you healthy and fresh
Bamboo boat
to sail and fish
Bamboo surfboard to enjoy your summer leave!
Bamboo beer

to have even more fun

...and ...
Bamboo sticks

To protect your rights
Bamboo trends highlights
INBAR Database on Bamboo and Rattan Trade

INBAR Database on Bamboo and Rattan Trade is a direct product of cooperation between INBAR, International Tropical Timber Organization (ITTO) and European Forest Institute (EFI). It is based on the UN Statistical Division COMTRADE data, utilizing Harmonized Commodity Description and Coding System (HS) used by World Customs Organization (WCO). For the short introduction of the Database please click here.

1. Select the product:
   - Raw Materials
   - Products
   - Vegetables probably including bamboo shoots

2. Select the year:
   - All years tend

3. Import ○ Export

4. Select the reporting country:
   - Afghanistan

5. Select the trade partner countries: (For multiple selection, please hold down the CTRL or SHIFT key while clicking to select multiple countries)
   - Area: All World
   - Area: Africa
   - Area: Asia
   - Area: Europe

3. ○ Value ○ Quantity

Start Search
### Summary of B&R trade, COMTRADE data, 2000, 1000 USD

<table>
<thead>
<tr>
<th>Commodities</th>
<th>HS Code</th>
<th>Export</th>
<th>Import</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAW MATERIALS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bamboo</td>
<td>140110</td>
<td>128547</td>
<td>179399</td>
</tr>
<tr>
<td>Rattan</td>
<td>140120</td>
<td>39602</td>
<td>59590</td>
</tr>
<tr>
<td>Veg. plaiting materials</td>
<td>140190</td>
<td>49548</td>
<td>75923</td>
</tr>
<tr>
<td>Plaits and products</td>
<td>460110</td>
<td>39397</td>
<td>43886</td>
</tr>
<tr>
<td>Mats and screens</td>
<td>460120</td>
<td>17777</td>
<td>13909</td>
</tr>
<tr>
<td>Plaited materials not mats</td>
<td>460191</td>
<td>219404</td>
<td>170210</td>
</tr>
<tr>
<td>Basketwork</td>
<td>460210</td>
<td>29933</td>
<td>122545</td>
</tr>
<tr>
<td>Seats of cane, osier</td>
<td>940150</td>
<td>1065566</td>
<td>1078125</td>
</tr>
<tr>
<td>Furniture of cane</td>
<td>940380</td>
<td>371366</td>
<td>423166</td>
</tr>
<tr>
<td>VEGETABLES (Including SHOOTS)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vegetables incl. shoots</td>
<td>070990</td>
<td>1156968</td>
<td>1112536</td>
</tr>
<tr>
<td>Vegetables fresh or chilled nes</td>
<td>071190</td>
<td>259281</td>
<td>293681</td>
</tr>
<tr>
<td>Vegetables mixed</td>
<td>200590</td>
<td>1125799</td>
<td>1083977</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>5088134</td>
<td>5410343</td>
</tr>
</tbody>
</table>
As a result of the international cooperation, 14 6-digit codes were introduced in the Harmonized System (HS) by the WCO for:

- Bamboo shoots
- Boards
- Flooring
- Furniture
- Pulp and paper
- Charcoal

with the implication for tariffs and taxes relief

Credits to: INBAR, FAO, EFI, ITTO, WCO, Chinese Customs, Malaysia, Indonesia, Philippines
Because of the world poor b&r statistics INBAR with partners (UNEP and WCMC) developed an innovative approach to quantifying likely range and distribution of various bamboo species.

Bamboo distribution and species-to-site matching maps are now posted on INBAR’s website.
Potential Distribution and Matching Sites for *Phyllostachys pubescens*
FRA 2005 Thematic Studies now include:

1. Planted forests
2. Forest fires and fire management
3. Extend of mangroves
4. Ownership of forests and trees
5. Forests and water
6. Forest pests
7. Global bamboo resources assessment
China’s case
Timber shortage in China

Import in early 2000 – over 3 billion USD
Per capita consumption:
wood - 0.2 m³;
sawnwood - 0.02 m³;
Paper - 25 kg;

China’s timber shortfall in 2000 - 40 million m³, by 2010 - 60 million m³, 2025 – 200 million m³.

Annual cutting - 55 million tons
Bamboo – 20 million tons
Increase of China’s Bamboo Plantation Area

Total Area (Million Hectare)
Increase of China's Bamboo Raw Material Production in Culms (Moso Bamboo)
Increase of China's Moso Bamboo Raw Material Production in Tons

- 1975: Million tons
- 1979: Million tons
- 1996: Million tons
- 2000: Million tons

Legend:
- Bamboo Production in Tons
China's Bamboo Industry Production Value

billion USD

Years