Wood removals development and crisis influence on wood and wood products consumption in Slovakia

Roman Svitok

WoodEMA
### Ownership and Forests Management in Slovakia

<table>
<thead>
<tr>
<th>Category</th>
<th>Ownership category</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>State</td>
</tr>
<tr>
<td>Forest crop land (ha/%)</td>
<td></td>
</tr>
<tr>
<td>Ownership</td>
<td>777 107</td>
</tr>
<tr>
<td></td>
<td>40,2</td>
</tr>
<tr>
<td>Tenure</td>
<td>1 067 124</td>
</tr>
<tr>
<td></td>
<td>55,1</td>
</tr>
<tr>
<td>Growing stock (1000 m³)</td>
<td>247 038</td>
</tr>
<tr>
<td>Gross annual increment (1000 m³)</td>
<td>6 462</td>
</tr>
</tbody>
</table>

*Source: Green report 2009*

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Slovak veneer logs production continuously drops down due to the destruction of wood working capacity for veneer production.

Saw logs production has a constantly growing trend in coniferous and non-coniferous.

Since 1995 pulp wood production steadily ranges from 2 700-3 200 thousands m³ except wood from calamity in 2005-2006.
• Fuel wood production share remains at relatively very low level

• At the time of the crisis the situation is shifting more in favor of higher consumption of wood for energy in the industry and in households

• Other industrial roundwood production, after decrease at the end of the century, again reaches levels from beginning of 90’s in the years 2003-2006. In the recent time other industrial roundwood production is decreasing
Wood removals

- Sawlogs and veneer logs non-coniferous
- Sawlogs and veneer logs coniferous
- Pulp wood non-coniferous
- Pulp wood coniferous
- Other industrial roundwood non-coniferous
- Other industrial roundwood coniferous
- Wood fuel non-coniferous
- Wood fuel coniferous

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Share of private forest owners in wood production

Wood removals by state and private forest owners

Thousands m3

State forests  Non state forests

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Analysis of State Forests wood removals during crisis 2008-2009

- In 2008 coniferous wood price continuously fell down from 52.28 €.m\(^{-3}\) in the first quarter of 2008, to 39.07 €.m\(^{-3}\).

- Massive shock in removals of coniferous roundwood started in the first quarter of 2009.

- In 2009 wood prices constantly dropped to 33.85 €.m\(^{-3}\) with very similar trend of wood assortments structure removals as in 2008, e.g. decrease of veneer and saw logs and increase of pulpwood and stems.
Analysis of State Forests wood removals during crisis 2008-2009

Coniferous wood removals and price

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Non-coniferous wood removals experienced similar situation as coniferous wood removals. Prices fell down from 49.62 €.m\(^{-3}\), in the first quarter of 2008, to 35.83 €.m\(^{-3}\), in the third quarter of 2009.

Non-coniferous pulpwood removals were very similar to the coniferous increase, but at non-coniferous was fairly unbalanced and too unstable.

Most important factor was the decrease of non-coniferous wood removals in 2009 to about a half of 2008 removals.

Removals of non-coniferous fuel wood and wood for energy were twice higher than in former years.
Analysis of State Forests wood removals during crisis 2008-2009

Non-coniferous wood removals and price

Non-coniferous wood removals in 10,000 m³
Non-coniferous wood price in €

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## Production and consumption of wood per capita

<table>
<thead>
<tr>
<th>Wood assortment</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
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<tr>
<td></td>
<td>m³ per capita</td>
<td></td>
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<tr>
<td>Roundwood - production</td>
<td>1,463</td>
<td>1,506</td>
<td>1,713</td>
<td>1,675</td>
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<tr>
<td>Roundwood - consumption</td>
<td>1,299</td>
<td>1,298</td>
<td>1,439</td>
<td>1,286</td>
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<tr>
<td>Industrial roundwood production</td>
<td>–</td>
<td>1,405</td>
<td>1,428</td>
<td>1,610</td>
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<tr>
<td>Industrial roundwood consumption</td>
<td>–</td>
<td>1,242</td>
<td>1,232</td>
<td>1,344</td>
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<tr>
<td>Pulpwood - production</td>
<td>0,469</td>
<td>0,521</td>
<td>0,553</td>
<td>0,686</td>
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<tr>
<td>Pulpwood - consumption</td>
<td>0,344</td>
<td>0,432</td>
<td>0,486</td>
<td>0,519</td>
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Wood supply forecast till the year of 2020

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Wood products import

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Wood products export

- Paper and paperboard
- Wood pulp
- Wood-based panels
- Non-coniferous sawnwood
- Coniferous sawnwood

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Carbon storage in wood products

- Wooden buildings and construction materials (windows, roofs)
- Furniture
- Paper (books, magazines, documents)
- Other wooden products (poles, fences, mining poles)
Carbon storage in wood products - furniture

- Basic material used for furniture
  - lumber
  - veneer sheets
  - plywood
  - particleboards
  - fibreboards
- Owen dry material
- Durability
Carbon storage in wood products

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Carbon storage in furniture

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Net carbon storage in furniture

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Total trade balance of wood and wood products from import and export

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<tr>
<th></th>
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<tr>
<td>Variance export - import in thousand ton of dry matter</td>
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<tr>
<td>2003</td>
<td>1092</td>
<td>944</td>
<td>1276</td>
<td>1230</td>
<td>1293</td>
<td>1195</td>
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<tr>
<td>Variance export - import in thousand ton CO₂</td>
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<tr>
<td>2003</td>
<td>2002</td>
<td>1731</td>
<td>2340</td>
<td>2256</td>
<td>2371</td>
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<tbody>
<tr>
<td>Variance export - import in thousand € for CO₂</td>
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<tr>
<td>2003</td>
<td>40044</td>
<td>34616</td>
<td>46791</td>
<td>45118</td>
<td>47428</td>
<td>43829</td>
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THANK YOU FOR YOUR ATTENTION!

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