



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

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**WoodEMA**

**WOOD PROCESSING AND FURNITURE MANUFACTURING  
Vyhne, October, 08. – 10. 2010**



# Ownership and forests management in Slovakia

Category	Ownership category						
	State	Municipal	Private	Community	Church	Agri co-op	Unknown
	Forest crop land (ha/%)						
Ownership	777 107	187 818	252 192	495 051	57 818	4 438	159 167
	40,2	9,7	13	25,7	3	0,2	8,2
Tenure	1 067 124	170 264	139 080	519 361	32 530	5 232	-
	55,1	8,8	7,2	26,9	1,7	0,3	-
Growing stock (1000 m <sup>3</sup> )	247 038	35 044	118 141	8 056	1 104	42 698	
Gross annual increment (1000 m <sup>3</sup> )	6 462	919	3 052	244	32	1 078	

Source: Green report 2009

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# Wood production

- 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 m<sup>3</sup> except wood from calamity in 2005-2006.



# Wood production

- 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

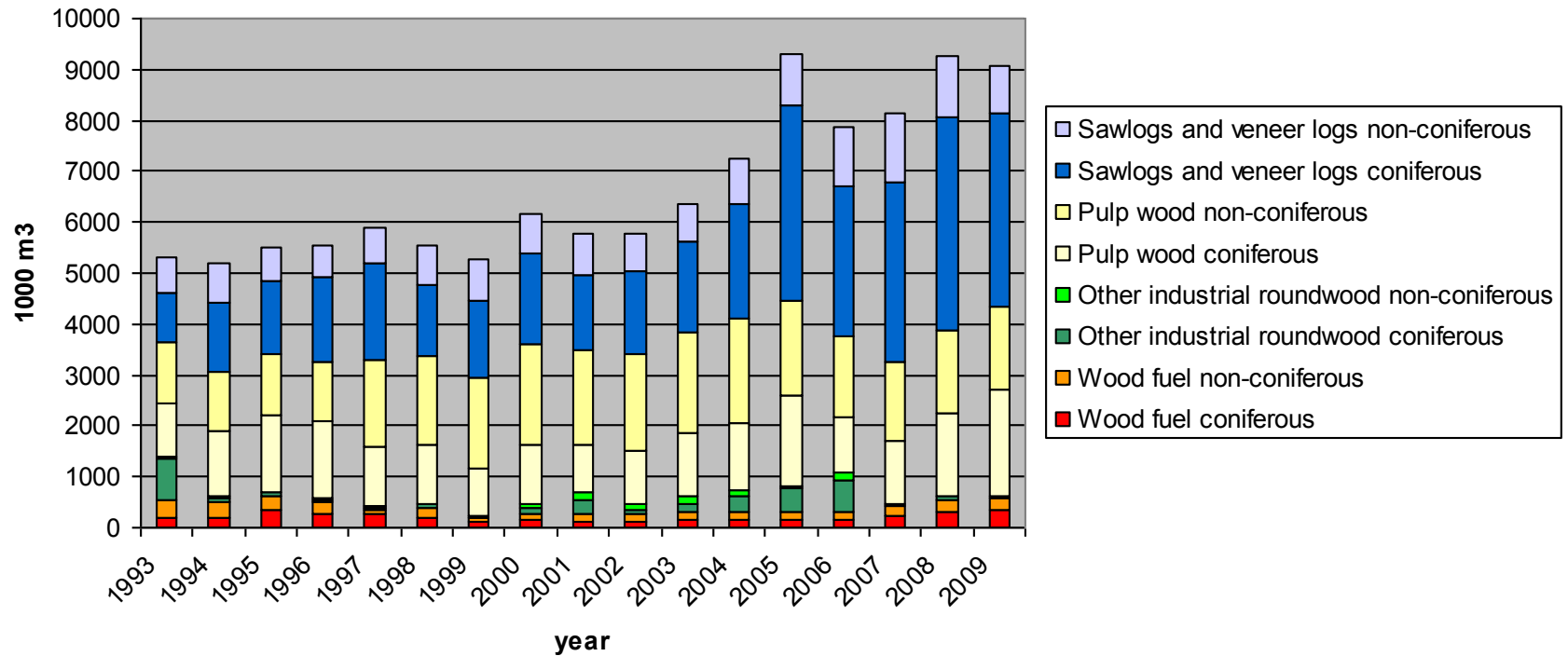


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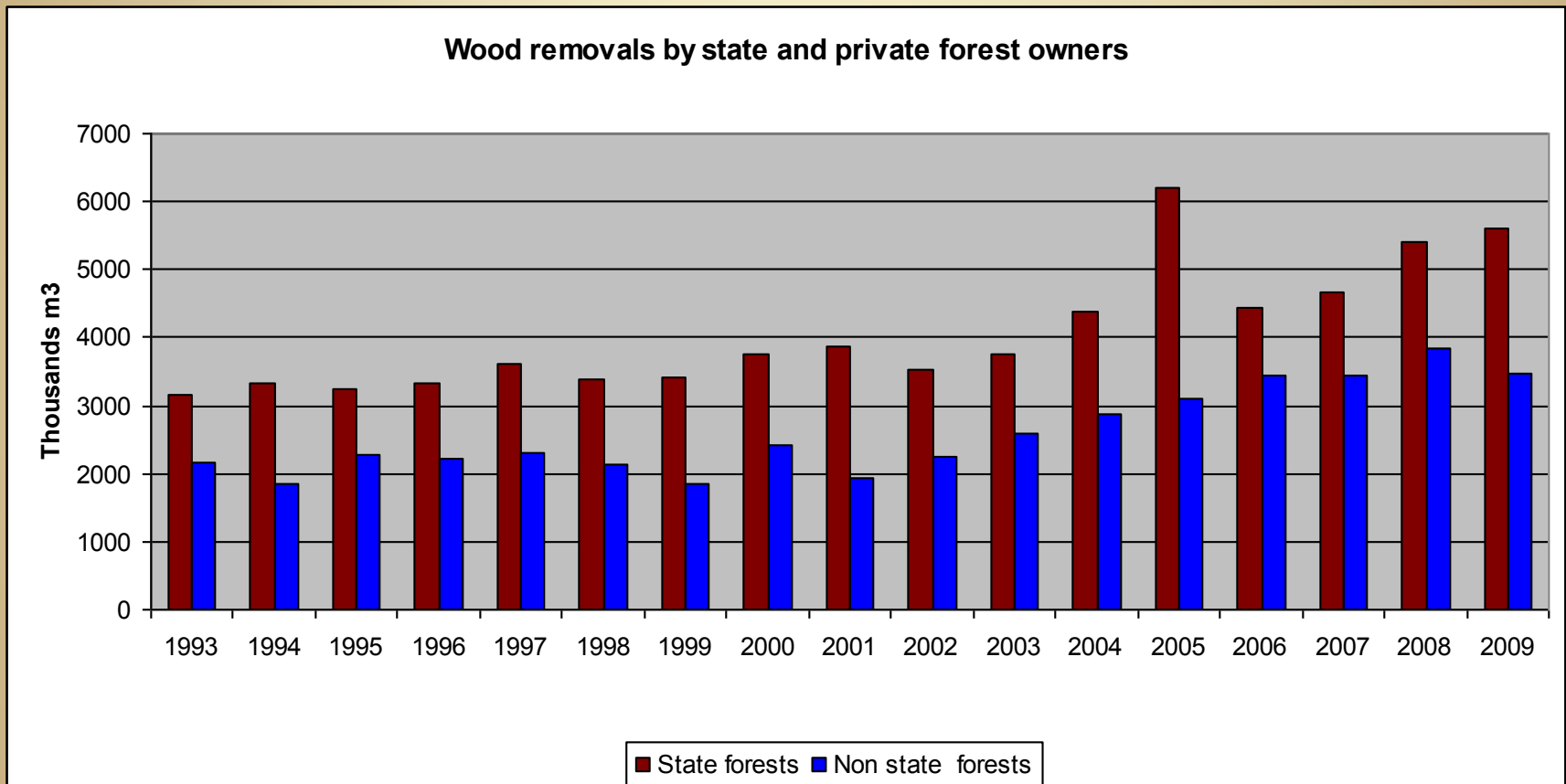
# Wood production

Wood removals



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# Share of private forest owners in wood production



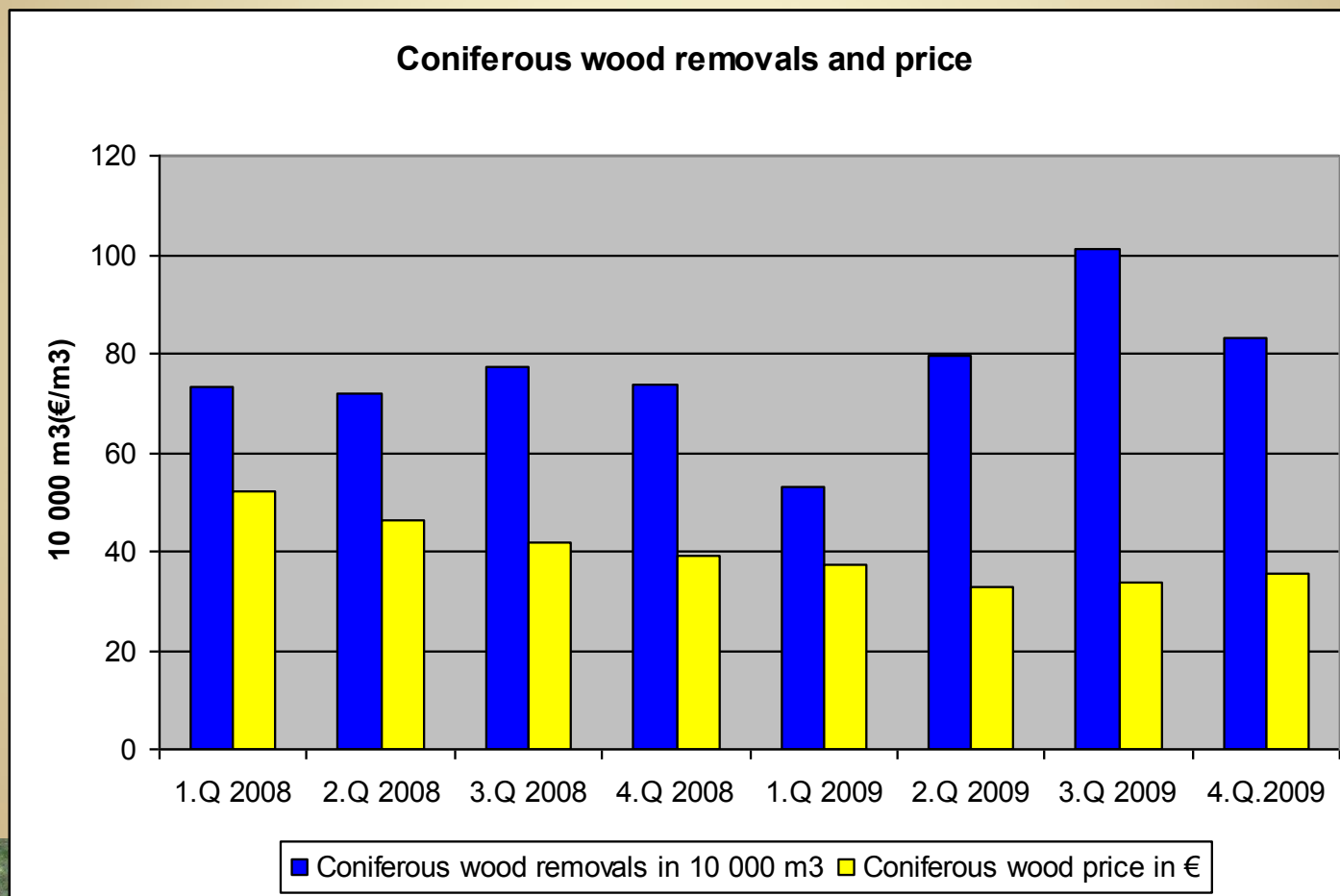
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# Analysis of State Forests wood removals during crisis 2008-2009

- In 2008 coniferous wood price continuously fell down from 52.28 €·m<sup>-3</sup> in the first quarter of 2008, to 39.07 €·m<sup>-3</sup>
- Massive shock in removals of coniferous roundwood started in the first quarter of 2009.
- In 2009 wood prices constantly dropped to 33.85 €·m<sup>-3</sup> 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



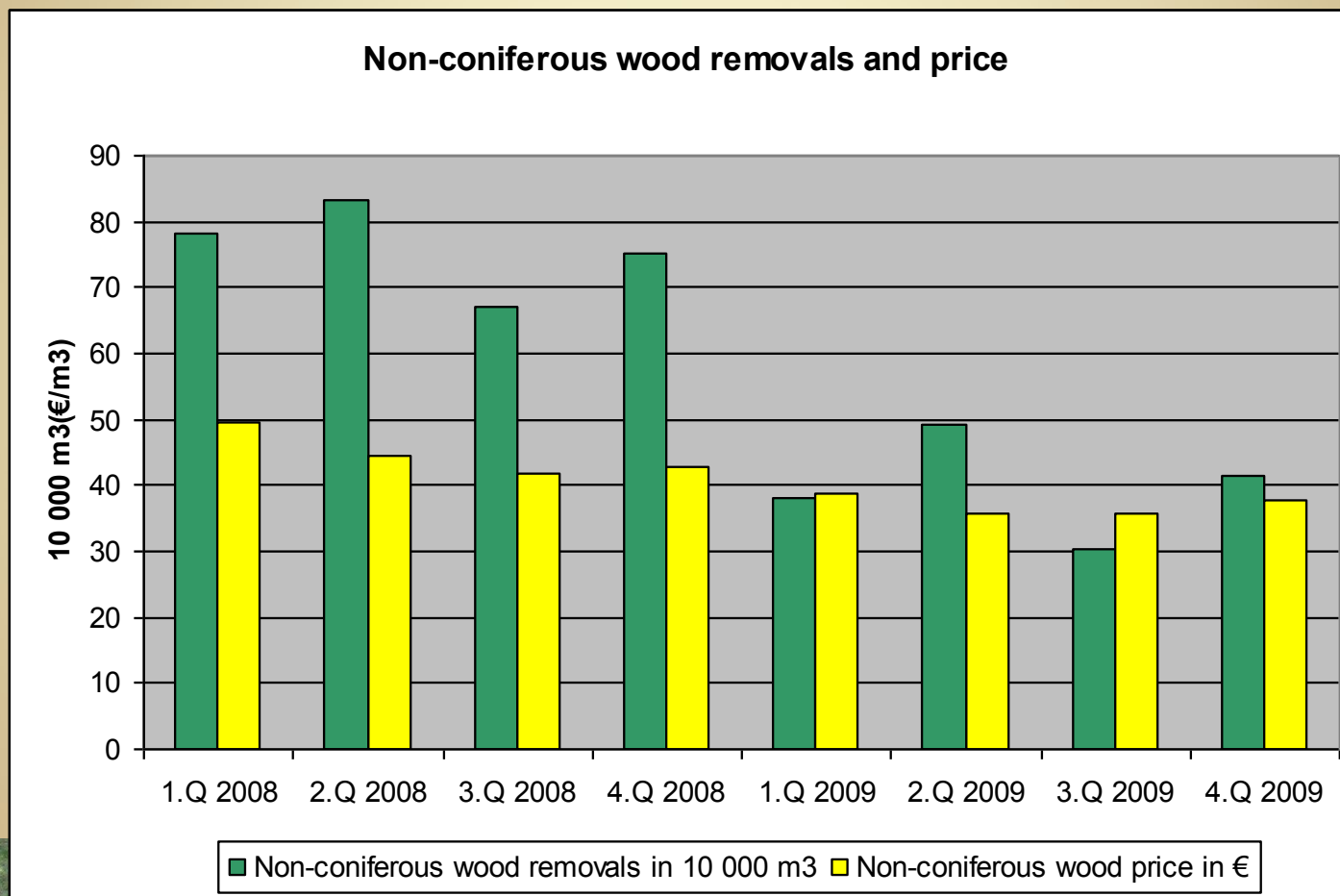
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# Analysis of State Forests wood removals during crisis 2008-2009

- Non-coniferous wood removals experienced similar situation as coniferous wood removals. Prices fell down from 49.62 €·m<sup>-3</sup>, in the first quarter of 2008, to 35.83 €·m<sup>-3</sup>, 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.

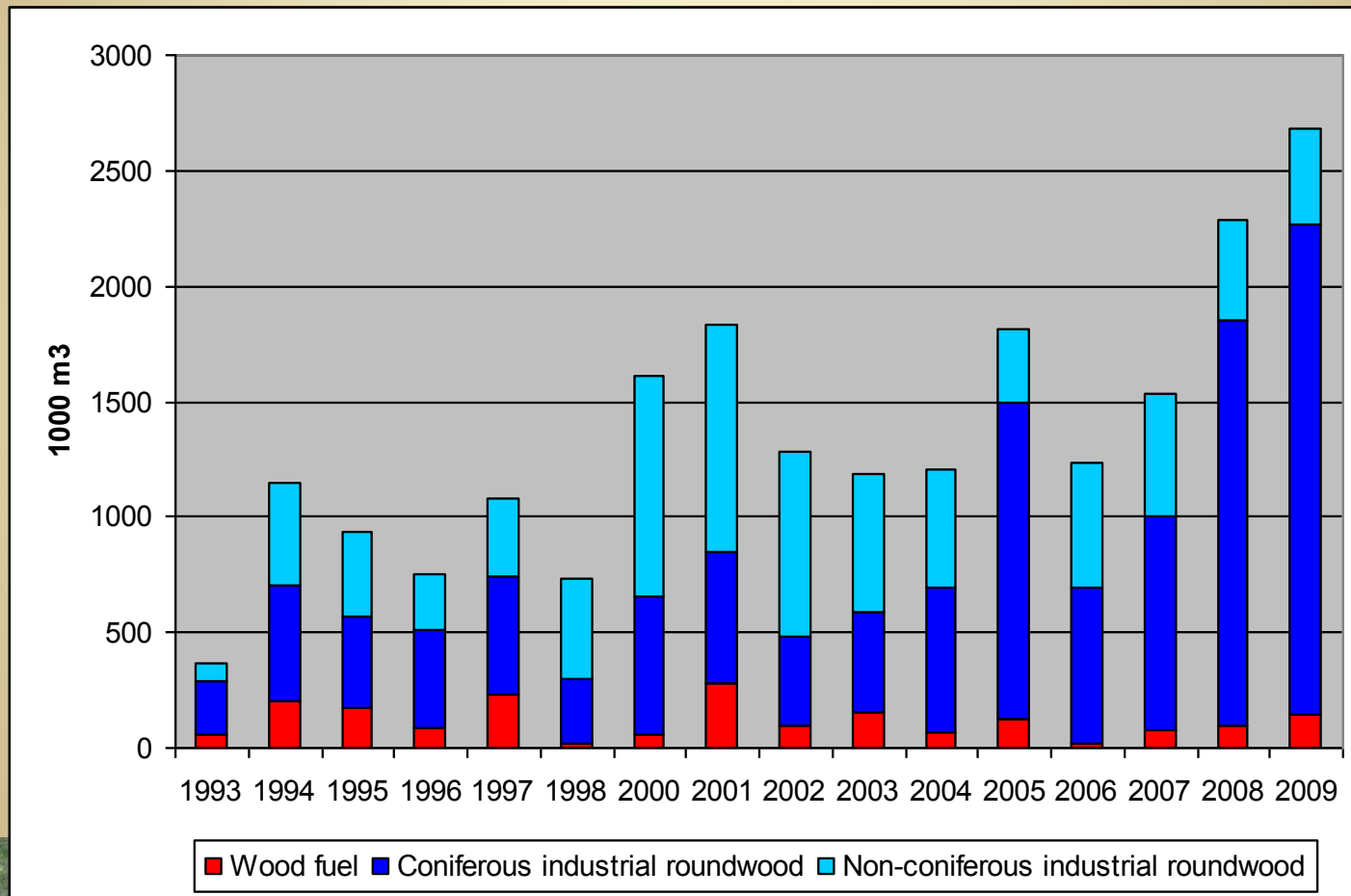
# Analysis of State Forests wood removals during crisis 2008-2009



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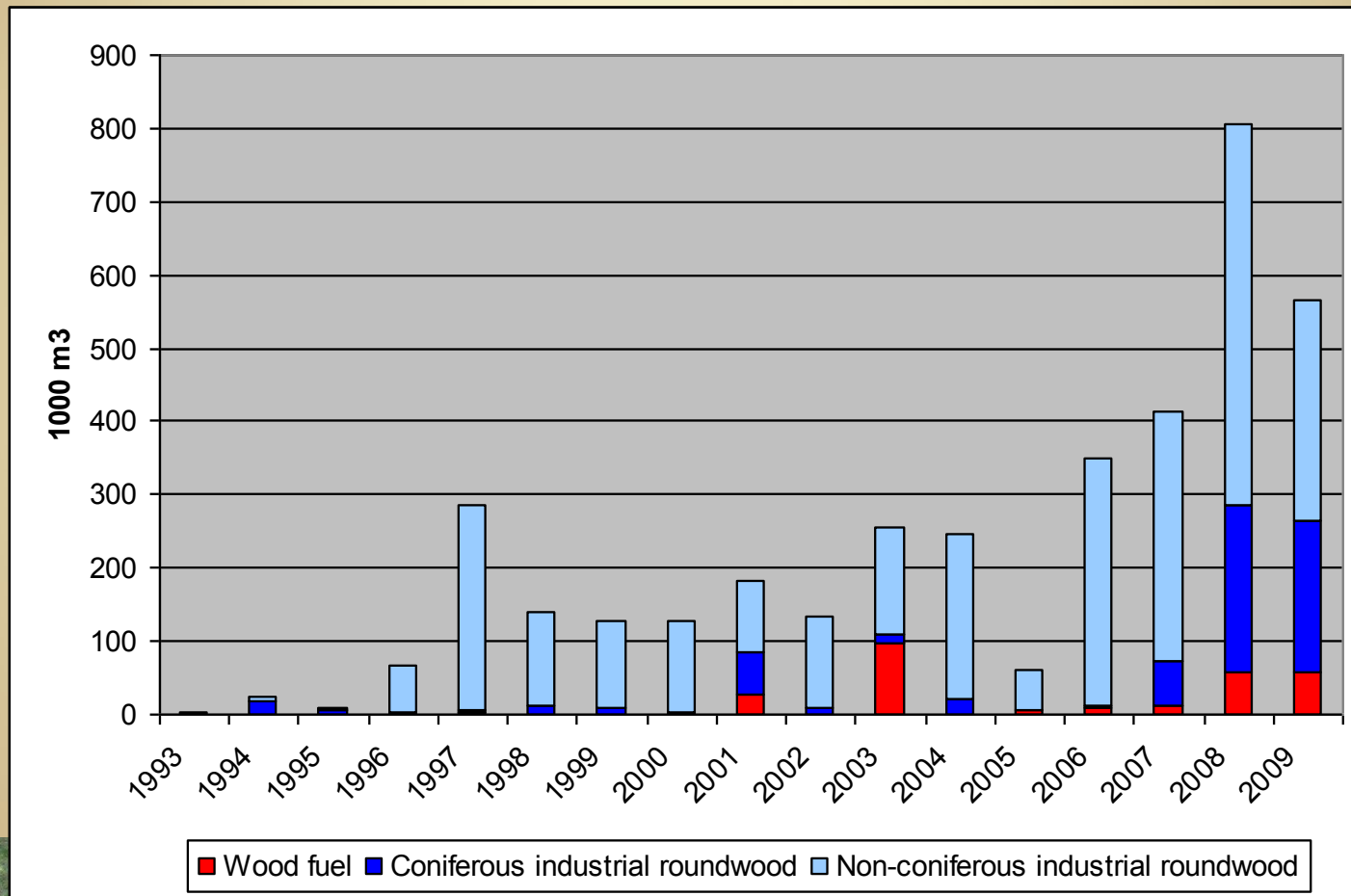


# Wood export



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# Wood import



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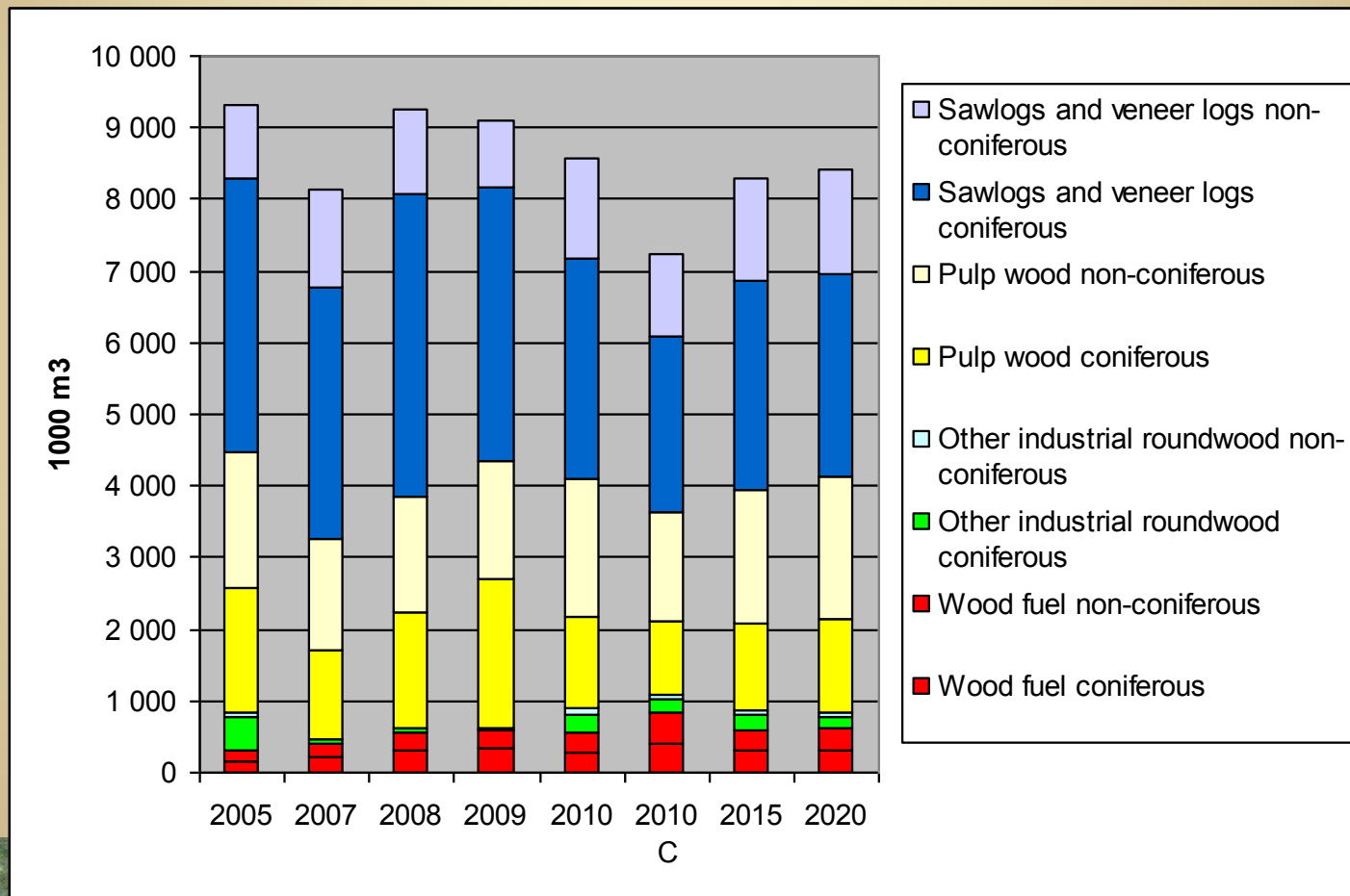


# Production and consumption of wood per capita

Wood assortment	2006	2007	2008	2009
	m <sup>3</sup> per capita			
Roundwood - production	1,463	1,506	1,713	1,675
Roundwood - consumption	1,299	1,298	1,439	1,286
Industrial roundwood – production	1,405	1,428	1,610	1,567
Industrial roundwood – consumption	1,242	1,232	1,344	1,194
Pulpwood - production	0,469	0,521	0,553	0,686
Pulpwood - consumption	0,344	0,432	0,486	0,519

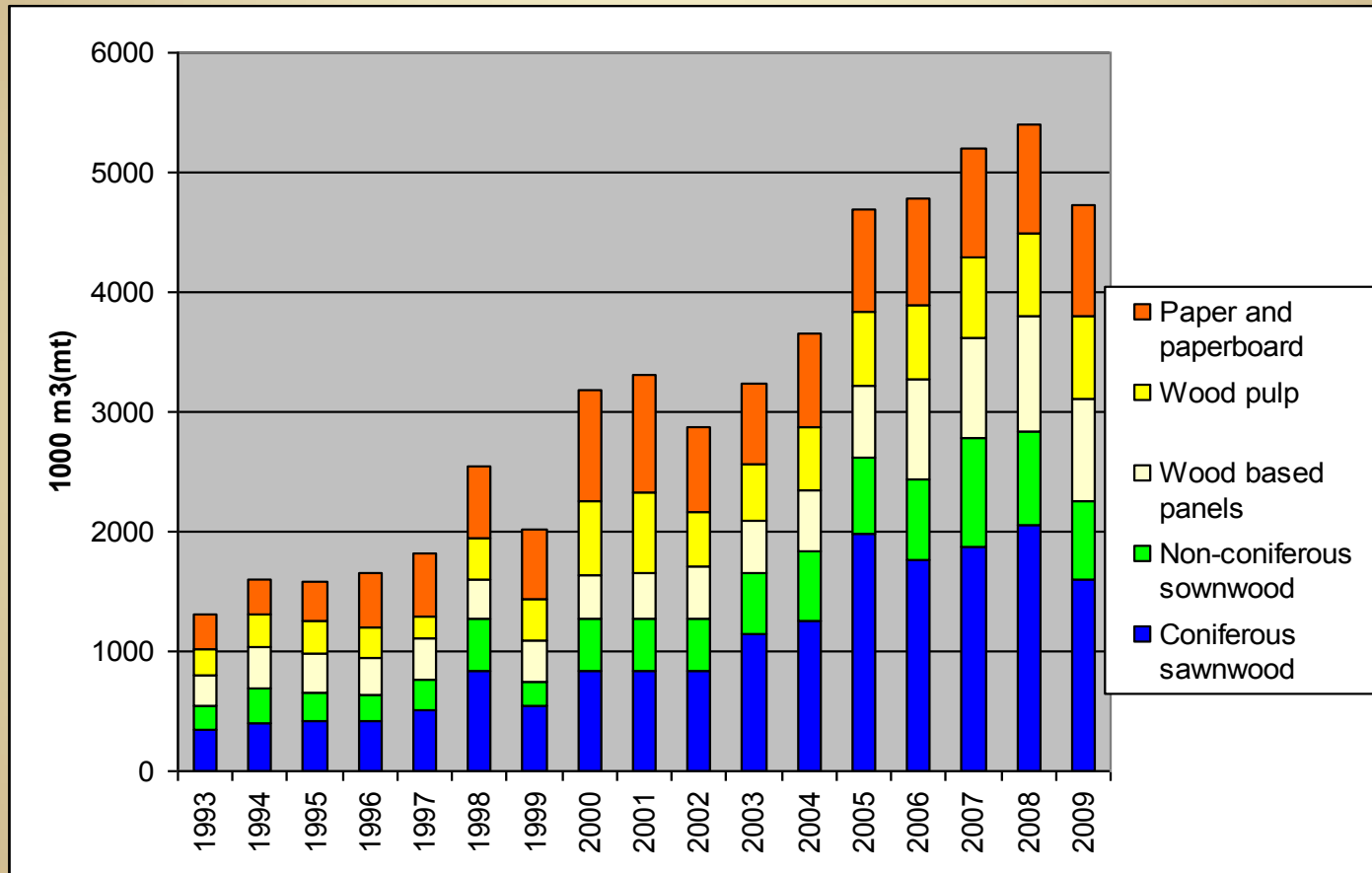
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# Wood supply forecast till the year of 2020



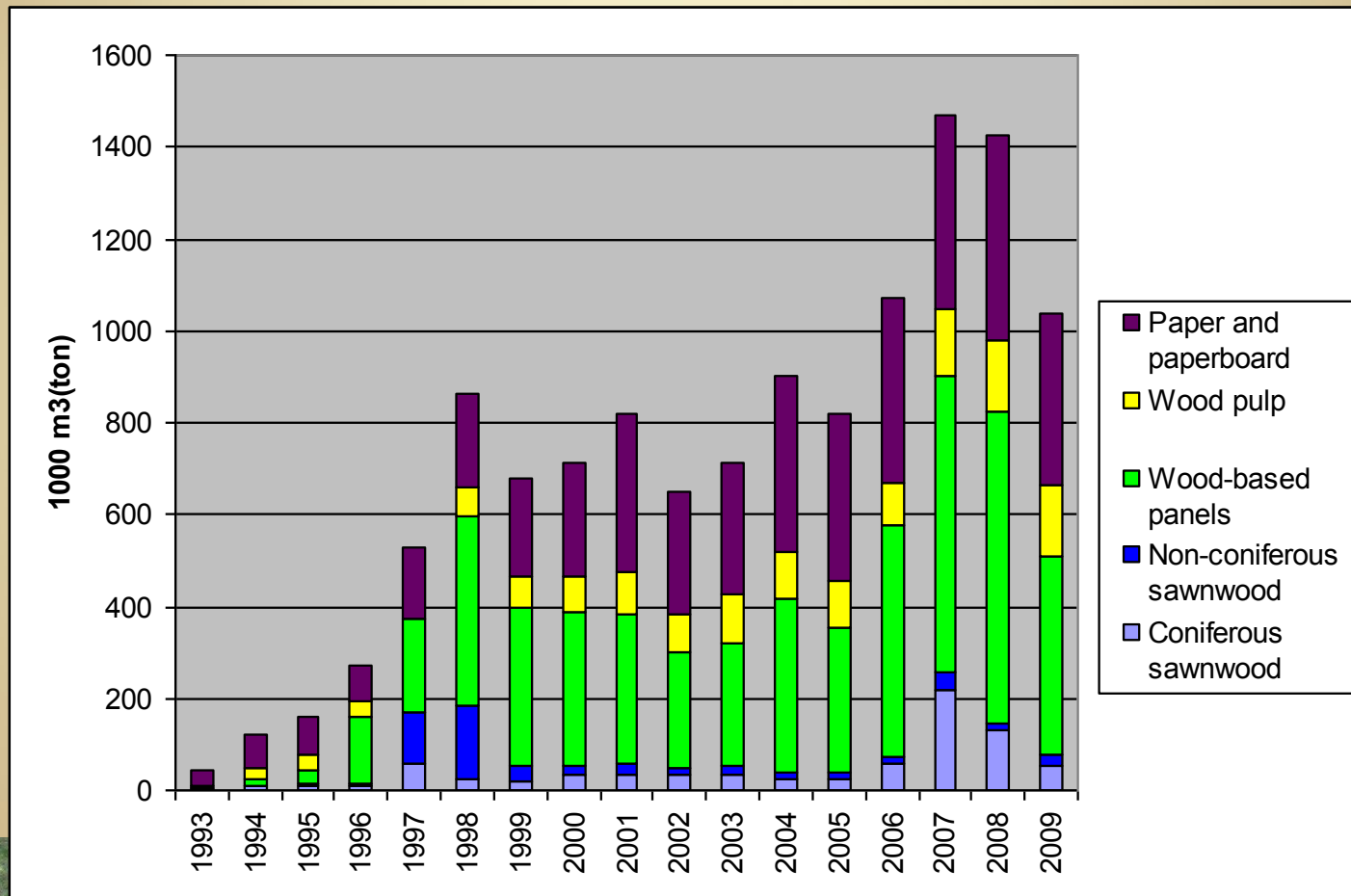


# Wood processing industry production



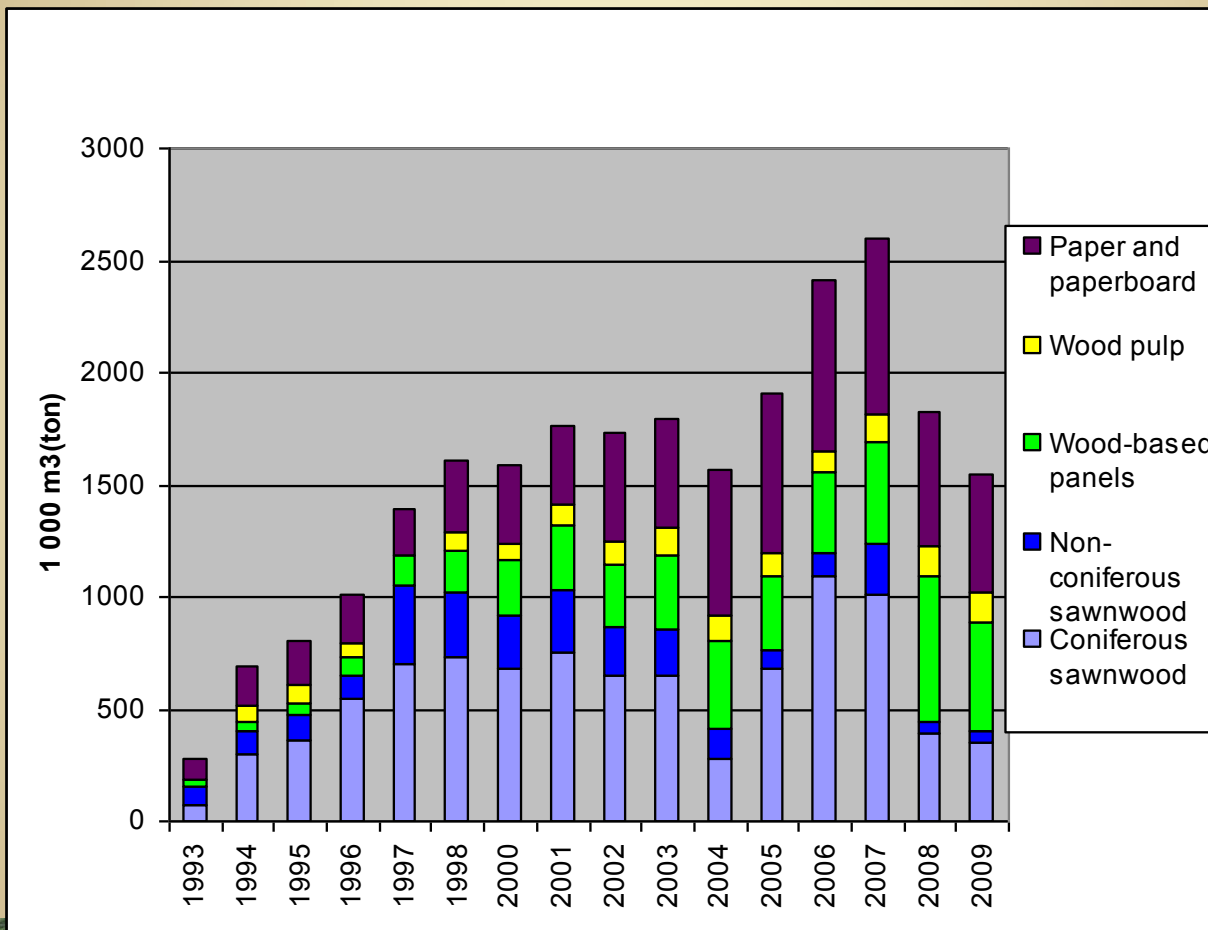
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# Wood products import



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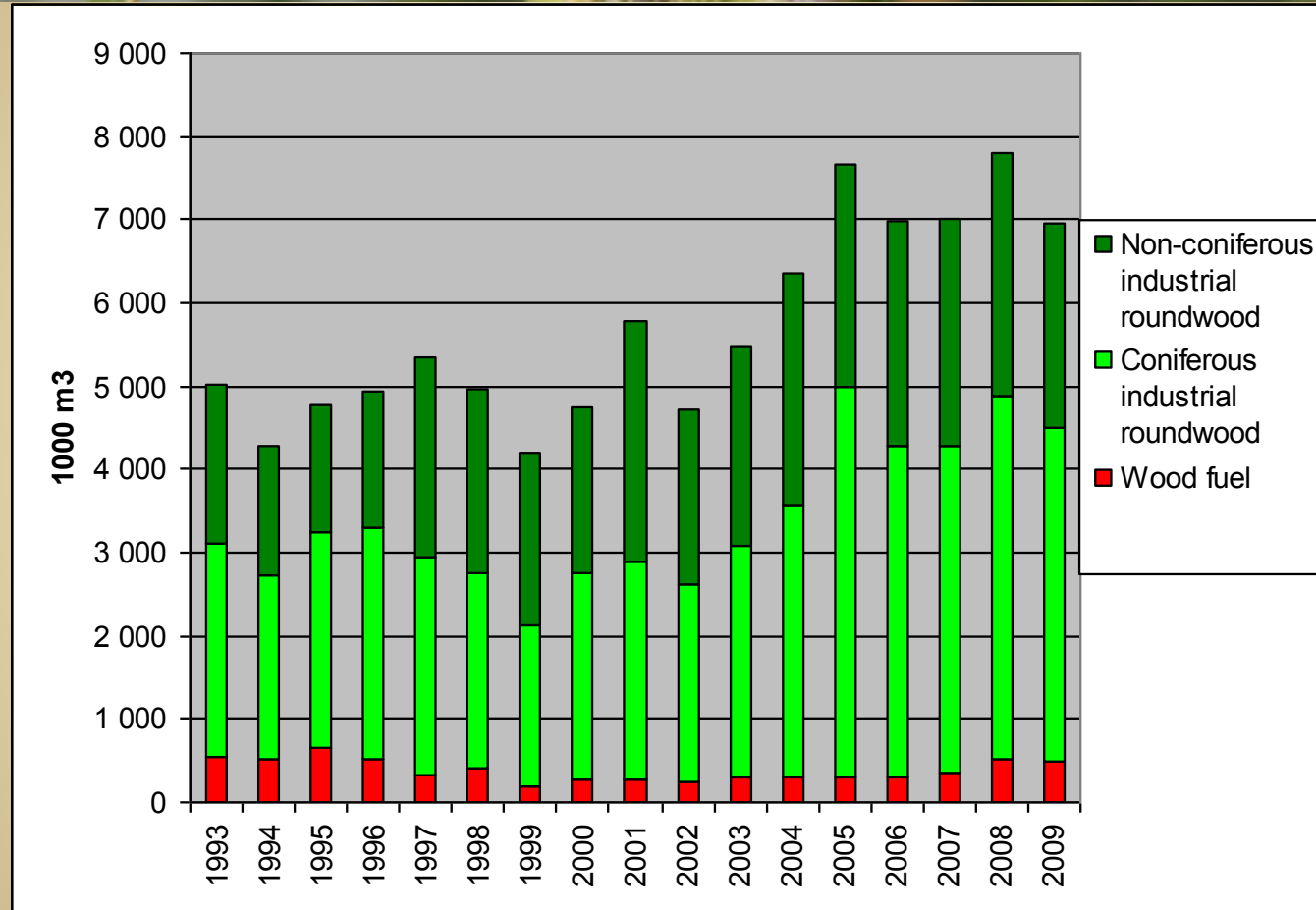
# Wood products export



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# Wood consumption



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# Carbon storage in wood products

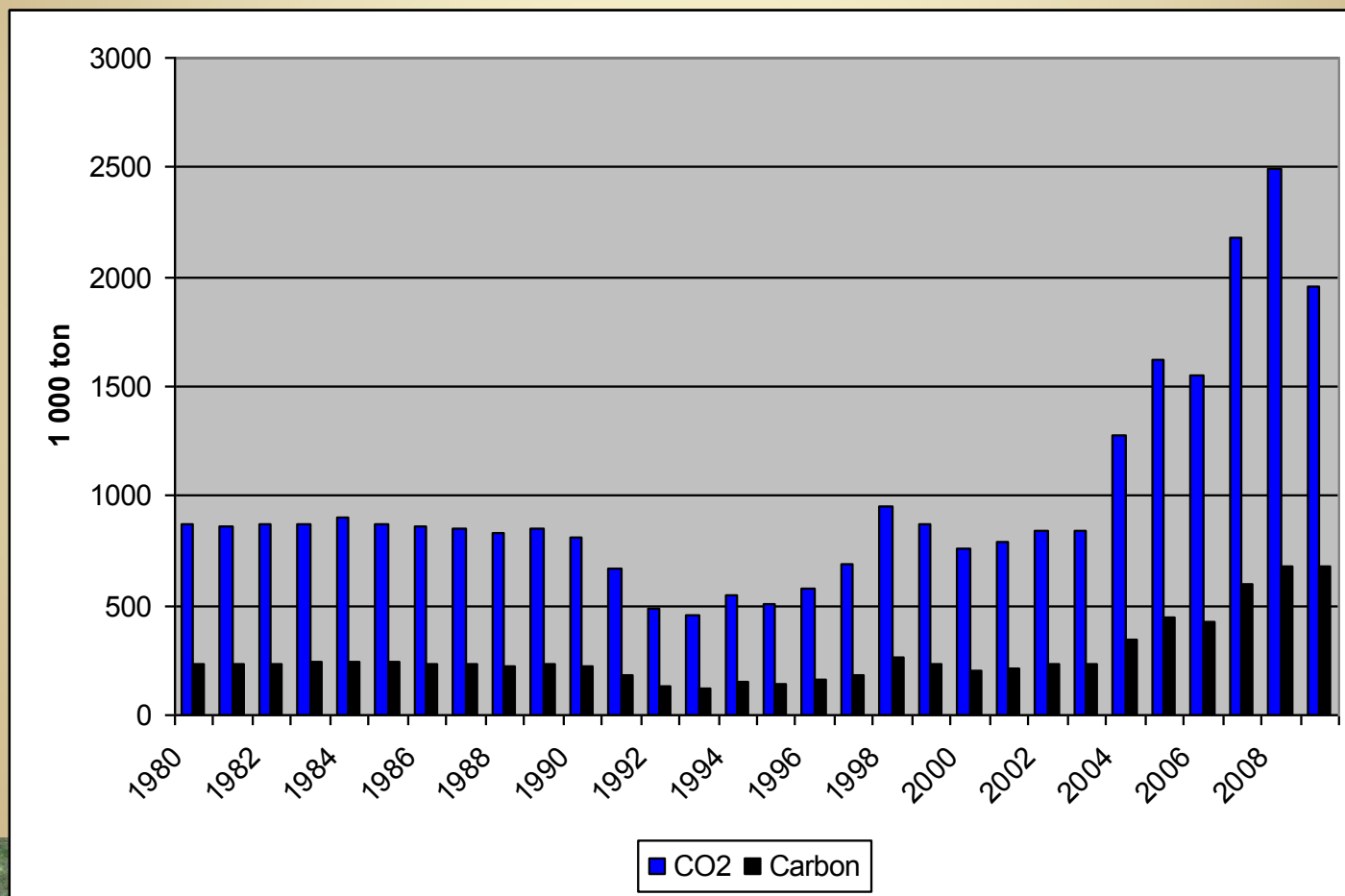
- Wooden buildings and construction materials (windows, roofs)
- Furniture
- Paper (books, magazines, documents)
- Other wooden products (poles, fences, mining poles)

# Carbon storage in wood products- furniture

- Basic material used for furniture
  - § lumber
  - § veneer sheets
  - § plywood
  - § particleboards
  - § fibreboards
- Owen dry material
- Durability

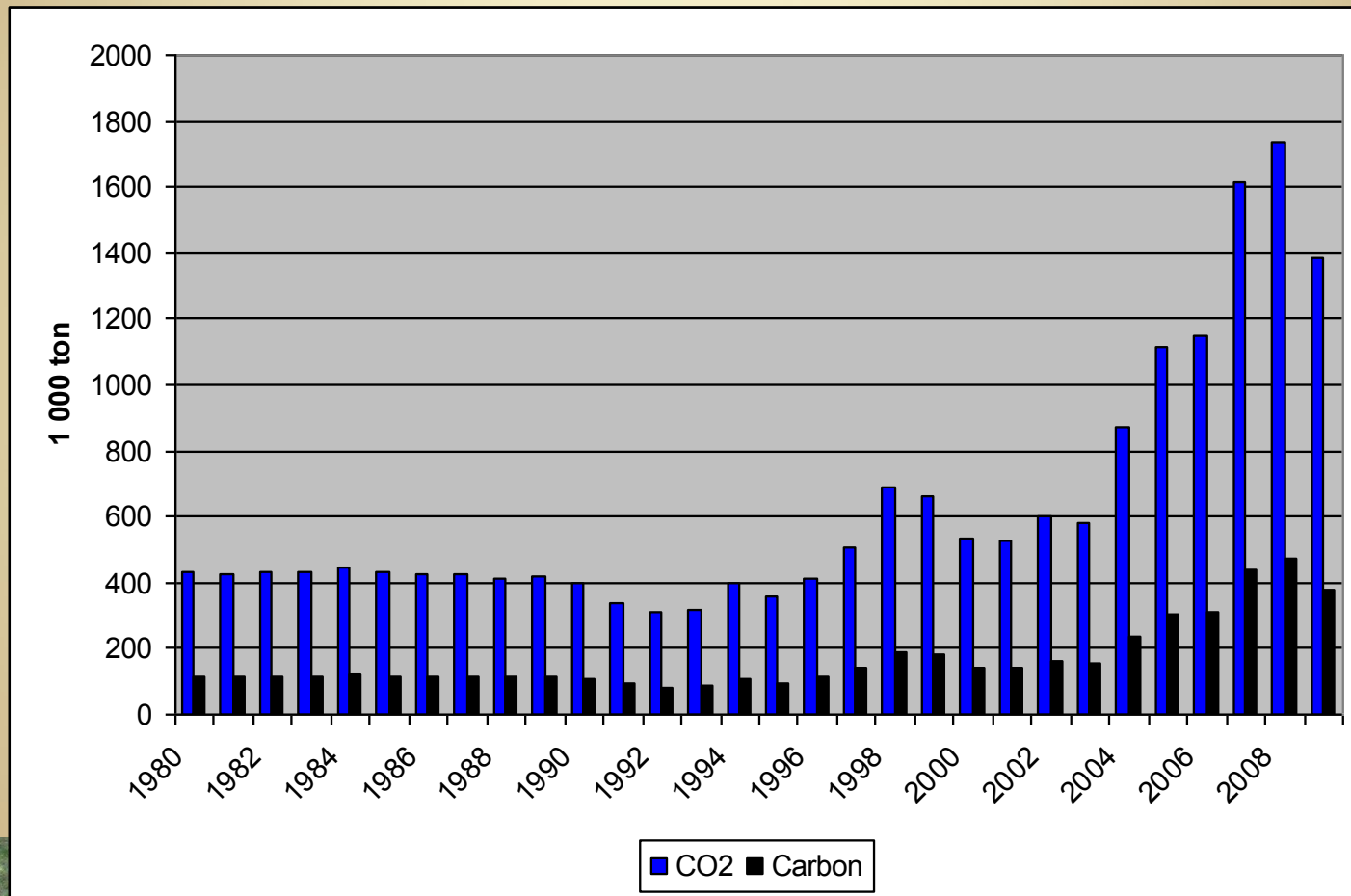


# Carbon storage in wood products



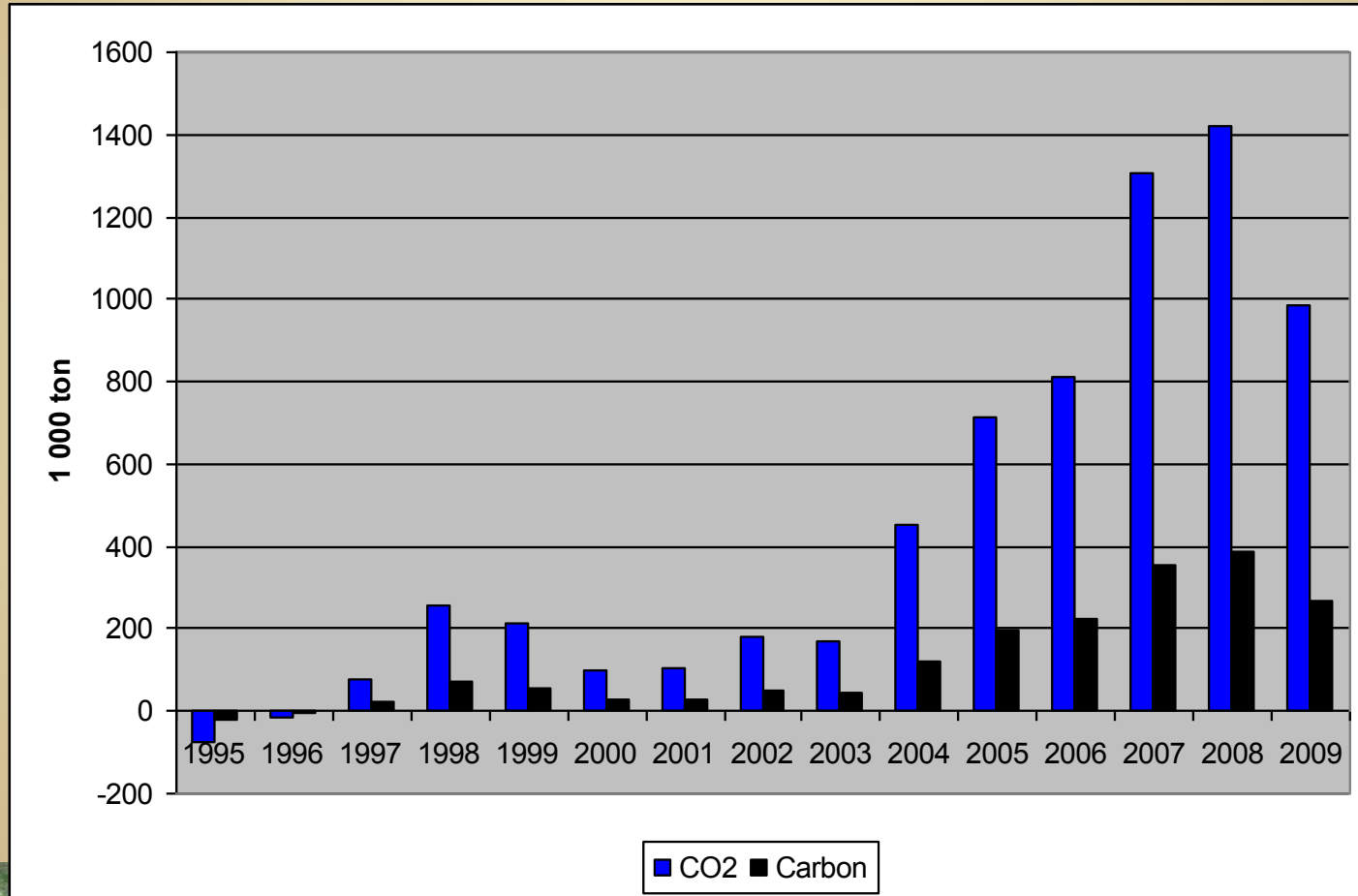
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# Carbon storage in furniture



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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

<b>Variance export - import in thousand ton of dry matter</b>					
<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
1092	944	1276	1230	1293	1195
<b>Variance export - import in thousand ton CO<sub>2</sub></b>					
<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
2002	1731	2340	2256	2371	2191
<b>Variance export - import in thousand € for CO<sub>2</sub></b>					
<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>
40044	34616	46791	45118	47428	43829

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**THANK YOU FOR YOUR  
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