

Impact of Import and Export Businesses on Research of Wood Products and Wood Industry in China

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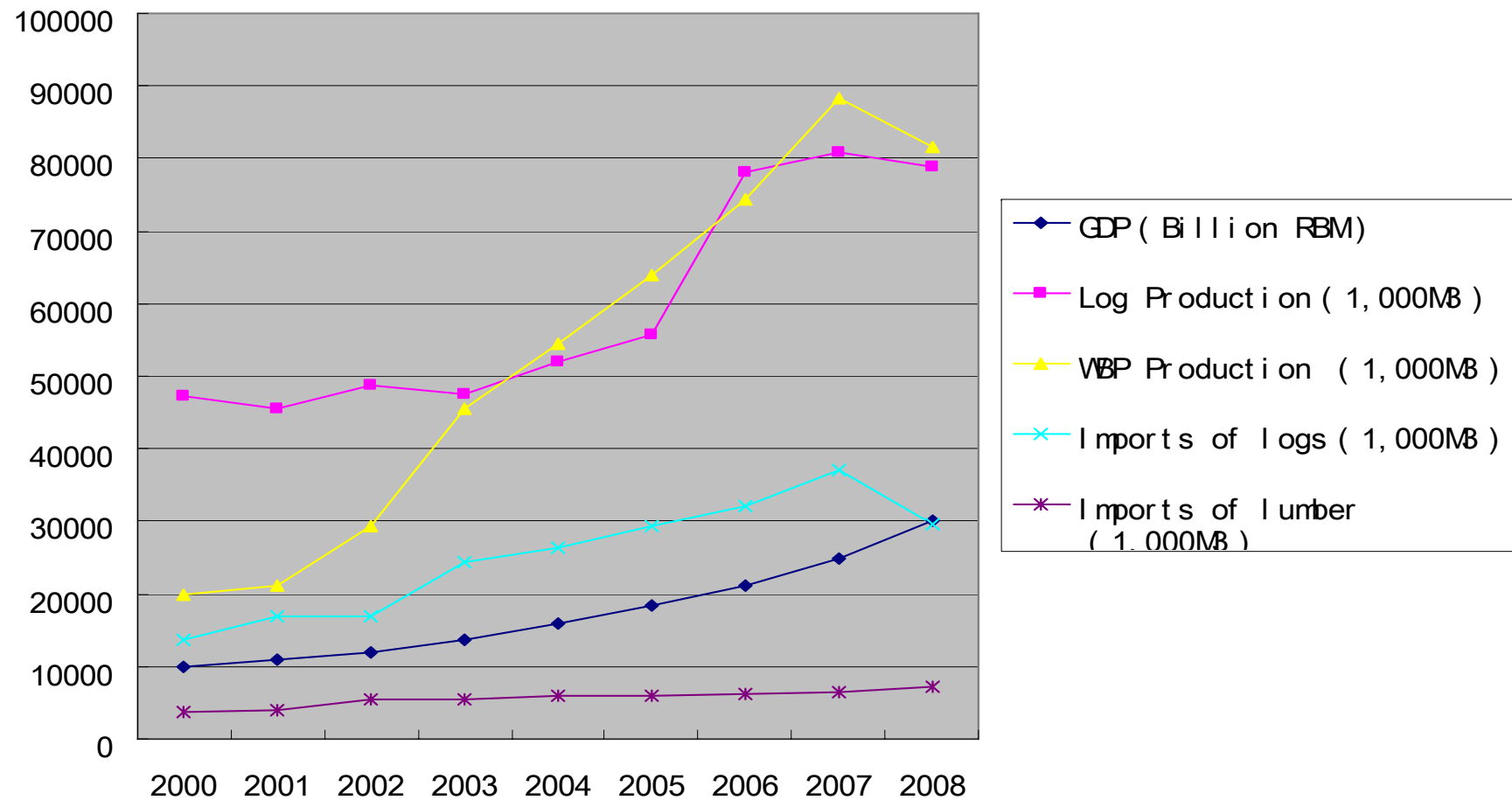
OUTLINE

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- 4.OPPERTUNITIES AND CHALLENGES**
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1. INTRODUCTION

- 9% of GDP annual average increment since 1978 and expect to continue
- Wood resource limitations
- Market needs from economic development
- Relying on imported wood resources currently

1. INTRODUCTION



1. INTRODUCTION

Main Applications of Wood

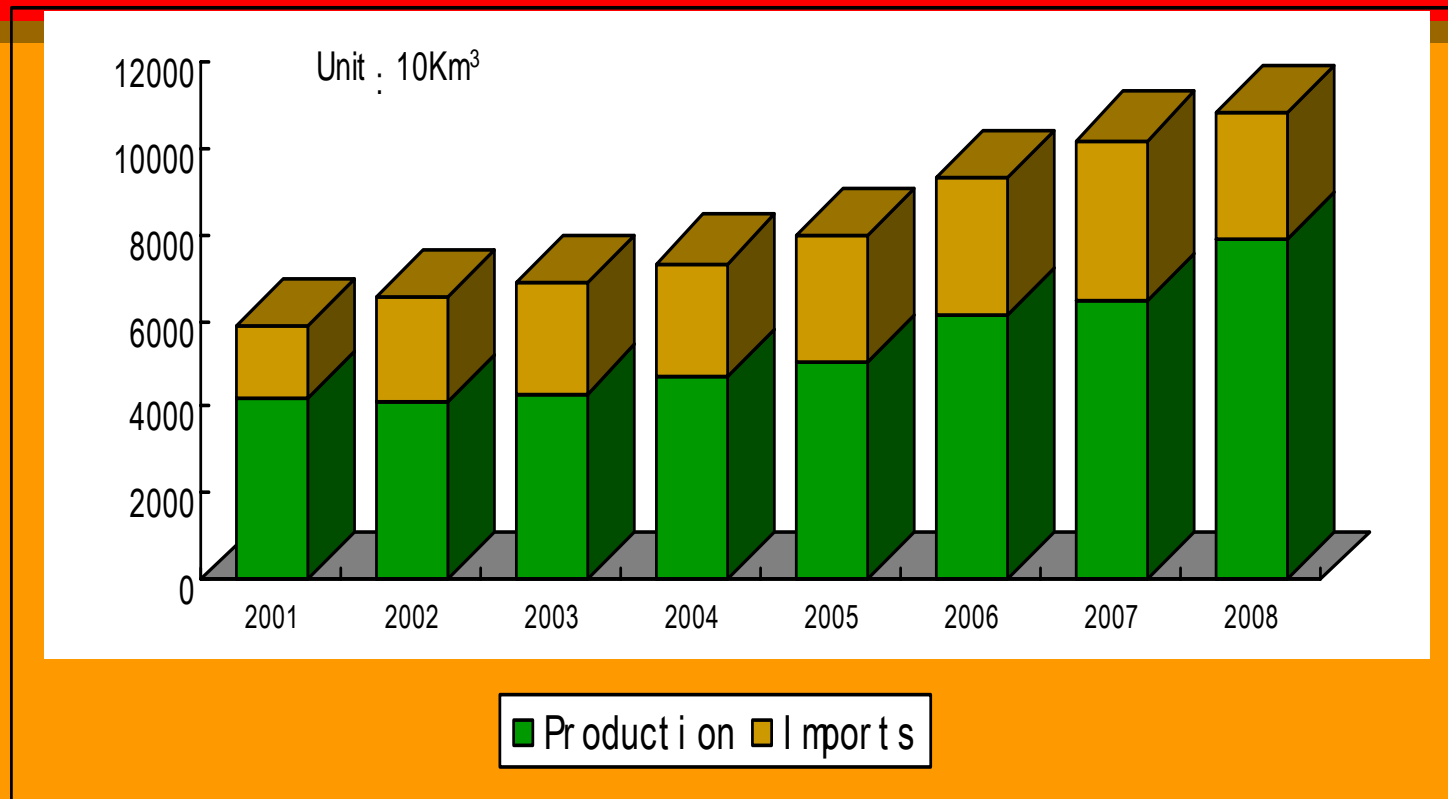
- Hardwoods----Interior decorations, Flooring, Furniture
- Softwoods----Doors, Windows, Construction, Rural housing, Packaging, Pulping, Transportation, Electric poles, Fence

2. WOOD IMPORTS

Sources of Main Imported Log and Lumber

- Southeast Asia--Meranti, Keruing, Kapur, Selangan, Apitong and Teak
- Africa--Mahogany, N'Gullon, Ayous, Sapele, Iroko, Okoume and Ozigo
- North America--Ash, Red oak, White oak, Cherry, Maple, Walnut, Douglas-fir, Hemlock and Cedar
- Europe --Red oak, White oak and Beech
- Russia--Ash , Birch, Oak and Larch
- New Zealand--Radiata Pine
- Nordic countries--Spruce and Cedar

2. WOOD IMPORTS



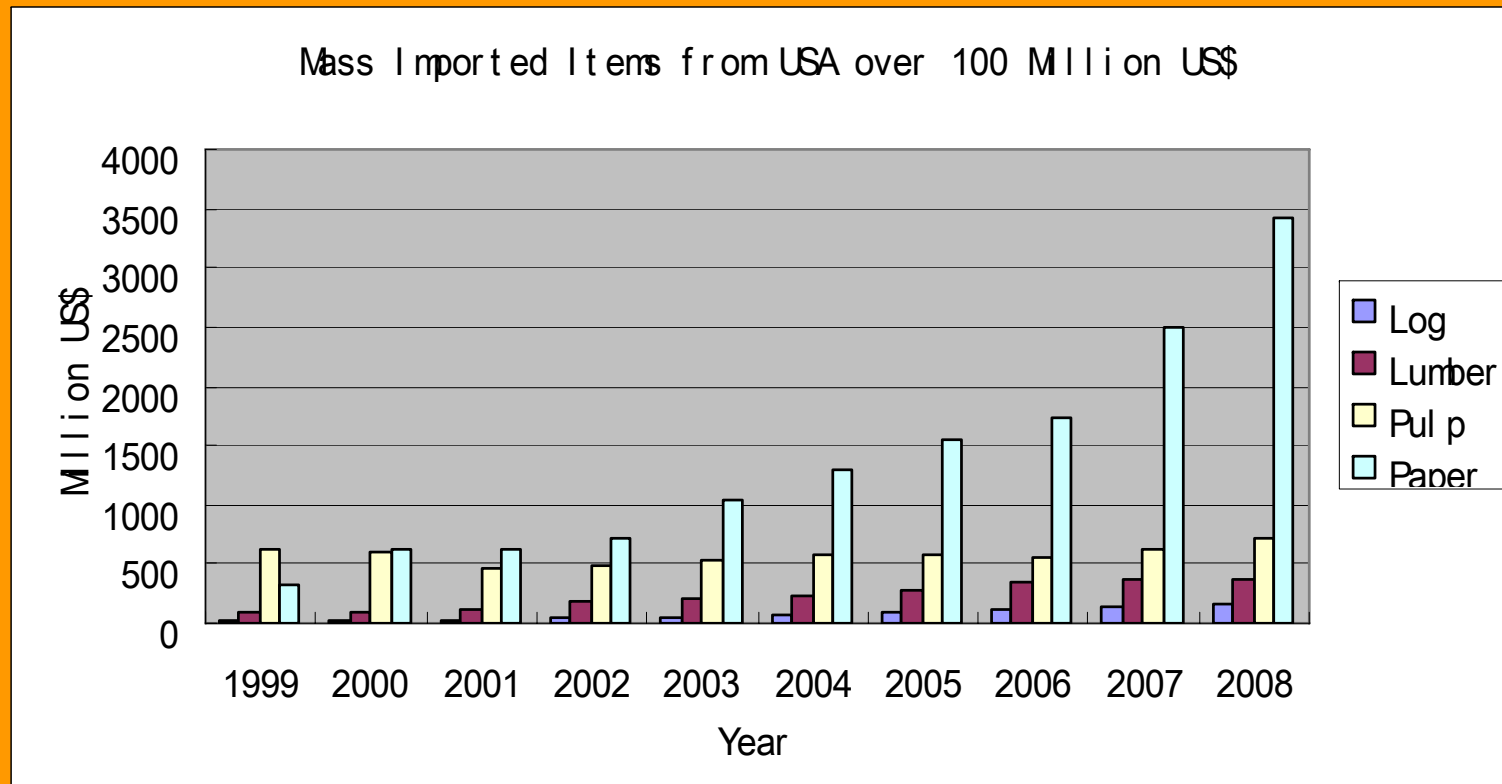
Log Consumption during 2001-2008

2. WOOD IMPORTS

Sources of Main Imported Wood Products

- **Pulp, paper and waste paper-- USA, Canada, Europe**
- **Preservative treated lumber-- USA, Canada, Europe**
- **OSB--USA, Europe**
- **High end furniture--USA, Europe, Europe**
- **Light frame house--USA, Canada**
- **Veneer-- Southeast Asia, USA, Canada**

2. WOOD IMPORTS



2. WOOD IMPORTS

Observations

- Hardwood import plays an important role in wood industry in China.
- Softwood import has been increased dramatically in the last a few years.
- Main imported wood :less-processed!
- Further process products?

3. WOOD EXPORTS

Exported Wood Products

- Furniture
- Plywood----concrets formworks, non-structural thin plywood
- Doors
- Flooring----Solid flooring, Engineered flooring, Laminated flooring
- Utilities
- Components, semi-finished products

3. WOOD EXPORTS

Mass Export Items from USA over 100 Million US\$



3. WOOD EXPORTS

Observations

- Low-end products
- Labor-intensive
- Low value
- OEM
- Non-tariff barriers

4. OPPERTUNITIES AND CHALLENGES

- To import more processed wood from sustainably- managed forests
- To import more high-end wood products
- To added more value on wood products
- To make wood products more environmentally- friendly
- To face more non-tariff barriers

5. RESEARCH ON IMPORTED WOOD--finished

Tropical Wood Species

CRIWI With ITTO support

- From Southeast Asia—206 species, 95% hardwood
- From Africa--205 species, 98% hardwood
- From Latin America--208 species, 96% hardwood



Identification, Properties and Use of Imported Tropical Wood

5. RESEARCH ON IMPORTED WOOD--ongoing

Wood and wood products from Canada

CRIWI With Canada Support

- Properties of Blue-stained wood from BC
- Use of Blue-stained wood from BC
- In-grading testing
- Training course of Grading technologies for lumber from N. America
- Testing method of residential performance of wood house

5. RESEARCH ON IMPORTED WOOD—needs to do

1 Tracking Technologies for Imported Wood

- Legality requirement in USA and EU
- Improved CoC system
- Species and producing country/region
- low-cost and high efficient
- Easy to use

5. RESEARCH ON IMPORTED WOOD—needs to do

- 2 Alternative environmentally-friendly preservatives in replace of CCA**
- 3 Understand more on less-commercially used species from export countries**
- 3 Modification technology such as thermo-treatment technologies**
- 4 High performance products to meet the needs of structural and out-door applications**

5. RESEARCH ON IMPORTED WOOD—needs to do

- 5 Test and evaluation of imported wood products (structural, fire and durability performance, emissions for air quality)
- 6 Products Standards and certification on structural wood products (lumber, engineered wood products, wood preservatives, wood adhesives etc)
- 7 Evaluation of light frame house in China (Energy conservation performance, sound insulation, floor vibration performance etc)
- 8 Low-cost housing designs for rural areas in China

5. RESEARCH ON IMPORTED WOOD—needs to do

- 9 To cooperate more with wood producing countries and wood products consuming countries
- 10 To input more in R & D of imported wood and export-oriented wood products.

Thank You for Your Attention

