

# Global Lumber Supply Dynamics & North America Outlook

PwC Global Paper & Forest Industry Conference

Vancouver, BC May 11, 2011

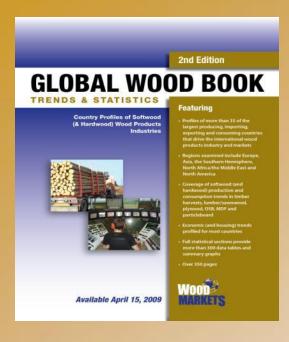
By: Russell Taylor

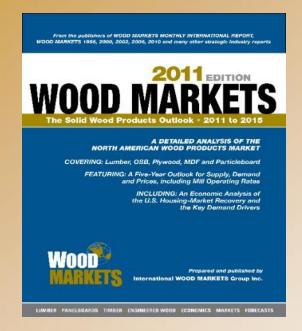
International and wood MARKETE from pinc.

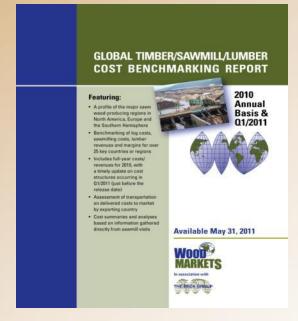
# Introduction to: International WOOD MARKETS Group

- We are wood products industry consultants and we assist companies around the world to develop operational, marketing & business strategies.
- We are known as global market & industry
   experts/analysts on timber, lumber, panels & many
   millwork products sold in the U.S. market & key
   export markets.
- We produce Multi-Client Reports: Europe & Russia; Clearwood Pine; Global Lumber Benchmarking; The China Book; WOOD Markets 2000, 2002, 2006, 2010; & the WOOD Markets Monthly Report

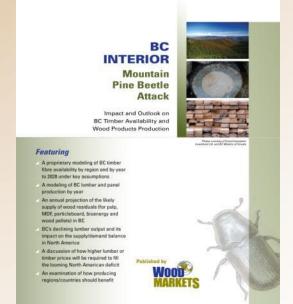
# WOOD Markets' Multi-Client Reports

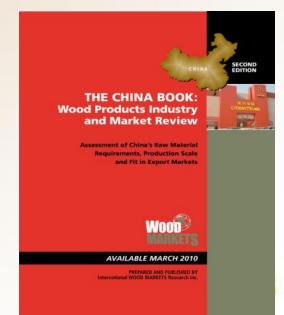












vices, along with some other new develop-

coetinues to grow =

### **Presentation Outline:**

- 1. Global Trends
- 2. China Impact on BC Industry
- 3. Other Asian Market Impacts
- 4. Mountain Pine Beetle Impact on BC Industry
- 5. Canada (& US) Outlook: 2011-2015
- 6. Summary



# 1. Global Timber & Lumber Supply Issues

The biggest wildcards impacting markets:

**Short Term to Mid Term Demand (2011-2013):** 

- U.S. housing starts to a "normal" 1.5 million units when?
- Slow & steady growth expected in U.S. market.
- EU (global) debt crisis (and other emerging crises?).
- China's supply shortage (emerging gap vs. demand).
- Rising demand in Middle East & North Africa markets
- Japan rebuilding after the earthquake & tsunami
- Other Asian markets steady demand (Korea, Taiwan)
- Other wildcards: Markets in India, Other Asia, etc.
- Conclusion: Rising demand, strong at times and then it will soar!

### Global Timber & Lumber Supply Issues

### The biggest wildcards impacting markets:

### Mid to Longer Term Supply (2011+):

- China's ongoing timber supply "gap" and need for imports
- Russia log export tax: WTO & going from 25% to 12.5%?
- Role of Timberland Investment Management Organizations (TIMO) in the U.S., New Zealand and other markets
- Rising sawlog and low grade log prices in Europe
- BC mountain pine beetle (and its expansion east).
- Quebec (2<sup>nd</sup> largest region in Canada) 25% reductions in timber supply + 10% further reduction expected by 2013.
- US/global timber lumber supply gap looming by 2015?
- Other wildcards: Sawmill competitiveness between regions and in export markets.
- 6Ocean freight rates & currency fluctuations

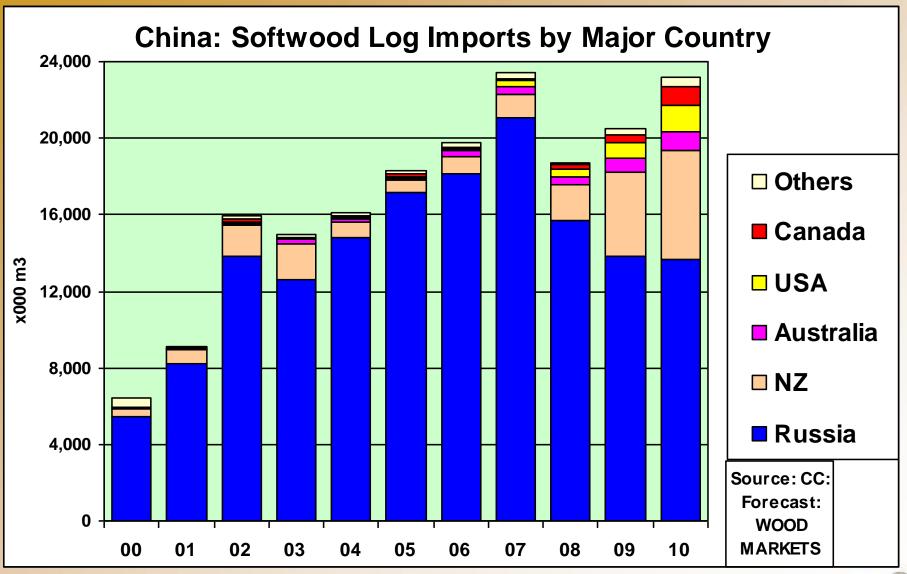
### 2. China: Key Growth Trends & Issues

### **Economic Growth & Wood Products Demand:**

- Strong economic growth in China = has rebounded quickly and strongly since early 2009 and is expected to continue at ~9%.
- China's domestic wood products demand growing at about 9-10% per year and this huge growth trend is forecast to continue to at least 2015 (Source: WOOD MARKETS' *The China Book*).
- China consumes about 75-85+% of its domestic production, so the GDP growth and wood products growth are tied closely.
- But China is RAW MATERIAL CONSTRAINED!



## **China: Softwood Log Imports**





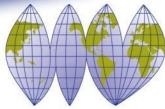
# GLOBAL LUMBER/SAWN WOOD COST BENCHMARKING REPORT

#### Featuring:

- A profile of the major sawn wood-producing regions in North America, Europe and the Southern Hemisphere
- Benchmarking of log costs, sawmilling costs, lumber revenues and margins for over 25 key countries or regions
- Includes full-year costs/ revenues for 2008, with a timely update on cost structures occurring in Q1/2009 (just before the release date)
- Assessment of currency fluctuations and transportation on delivered costs to market by exporting country
- Cost summaries and analyses based on information gathered directly from sawmill visits
- Enhancements for this report include sawmill proformas at actual and "normal" operating rates



2008 Annual Basis & Q1/2009



Available April 30, 2009



## Global Sawnwood! Lumber Benchmarking Report:

2008 Costs Excerpts related to Chinese costs

2011 Report: Out in May 2011



## **Global Lumber Cost Benchmarking**

### **Global Benchmarking: Countries Surveyed**

#### USA:

- 1. USA South West
- 2. USA South Central
- 3. USA South East
- 4. USA West Oregon
- 5. USA West Washington
- 6. USA West Inland

#### Canada:

- 7. Canada BC Coast
- 8. Canada BC Interior
- 9. Canada Prairies
- 10. Canada East Ontario
- 11. Canada East Quebec
- 12. Canada East Atlantic

### **Europe:**

- 13. South Sweden
- 14. Finland

### **Europe** (cont)

- 15. Estonia
- 16. Latvia
- 17. Lithuania
- 18. Czech Republic
- 19. Austria
- 20. Germany
- 21. Russia: West
- 22. Russia: Siberia
- 23. Russia: Far East

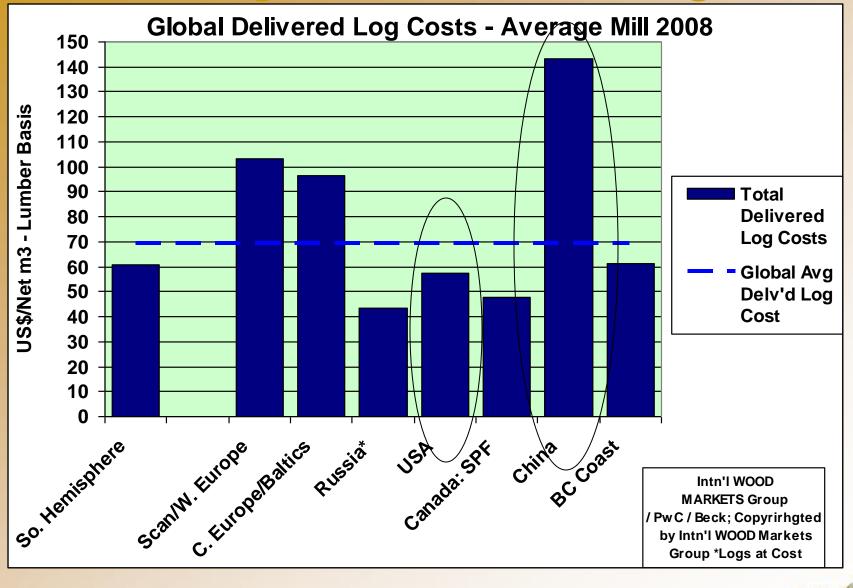
### So. Hemisphere:

- 24. Australia
- 25. New Zealand
- 26. Chile
- 27. Brazil
- 28. South Africa

29. China

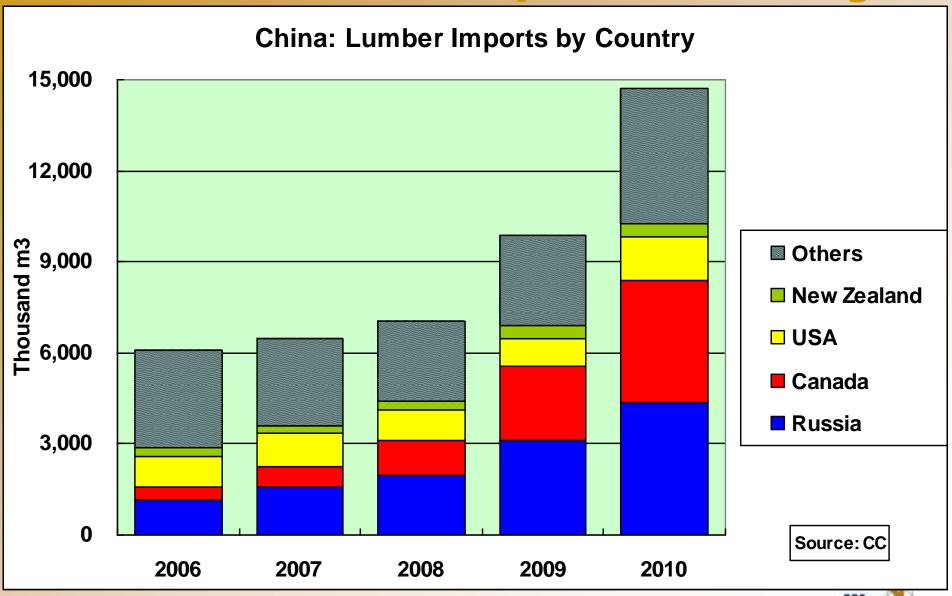


# China = Highest Delivered Log Costs





### China's Lumber Imports = Soaring



Canadian softwood lumber has overtaken Russia



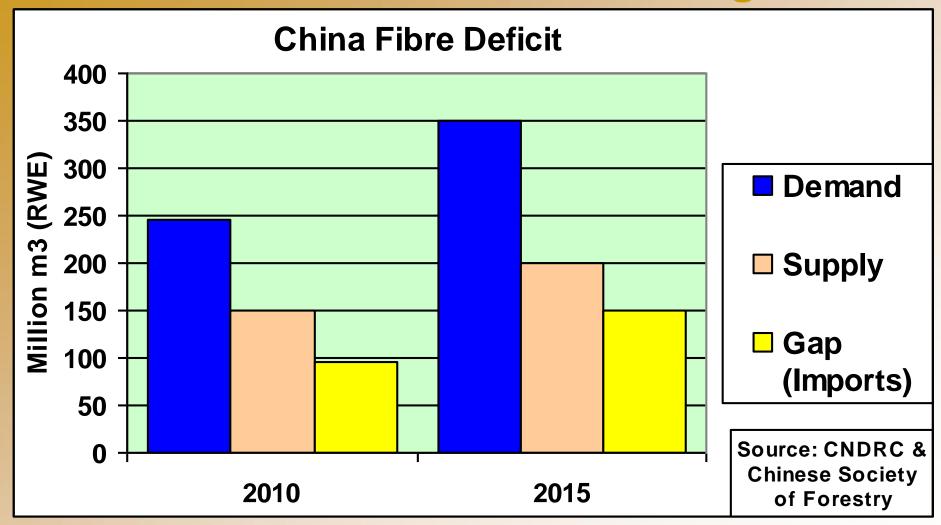
### **China: Raw Material Gap**

### China's total "wood" demand:

- Is expected to grow from 250 million m3 in 2010 to 350 million m3 by 2015 (a conservative 8% per year).
- The projected wood deficit (or the role of imports) is expected to grow from 100 million m3 to 150 million m3 – Roundwood Equivalent (10% per year).
- However, Chinese industry forecasts indicate that China's wood demand should grow more at a rate of 10-15% per year to 2015, so the import gap could be up to double what is currently forecast.
- Where will the additional (100-200) million m3 (RWE) of imports come from over the next 5 years??



## China's Fibre Deficit = Huge!



China's demand is growing at 8-10% per year = requires huge raw material supplies to be sustained!

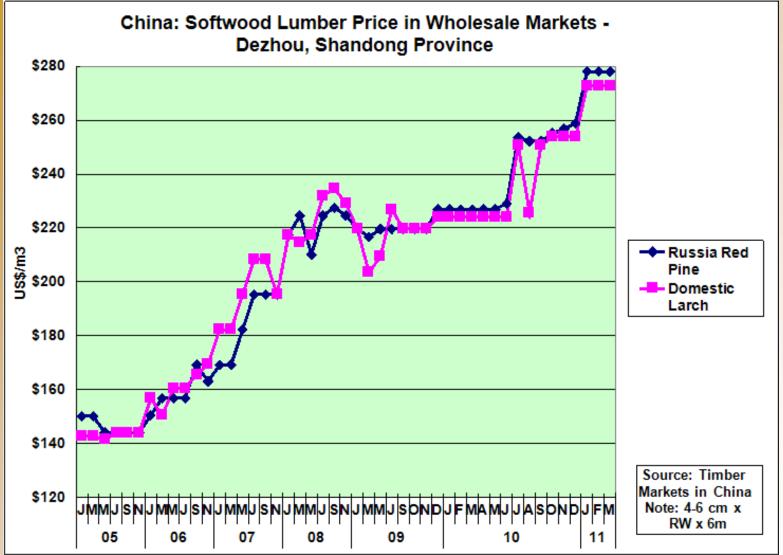
China future = tied to plantation forests – but there is a gap



### **RUSSIA: Timber Export Tax**

- For softwood logs, the tax has risen:
  - from 6.5% to 20% (euro 10/m3) in July 2007.
  - to 25% (euro 15/m3) in April 2008.
  - to 80% (euro 50/m3) in Jan. 2012 DELAYED
- For hardwood saw/veneer logs, the export tax is already at euro 100/m3.
- For birch pulpwood, the tax has been delayed.
- Now the Russian log export tax may reduced by 50% to 67% after Russia joins WTO = an unknown
- Russian log prices have been driven higher and this has caused the Chinese industry to look for new log and lumber suppliers to fill the gap.

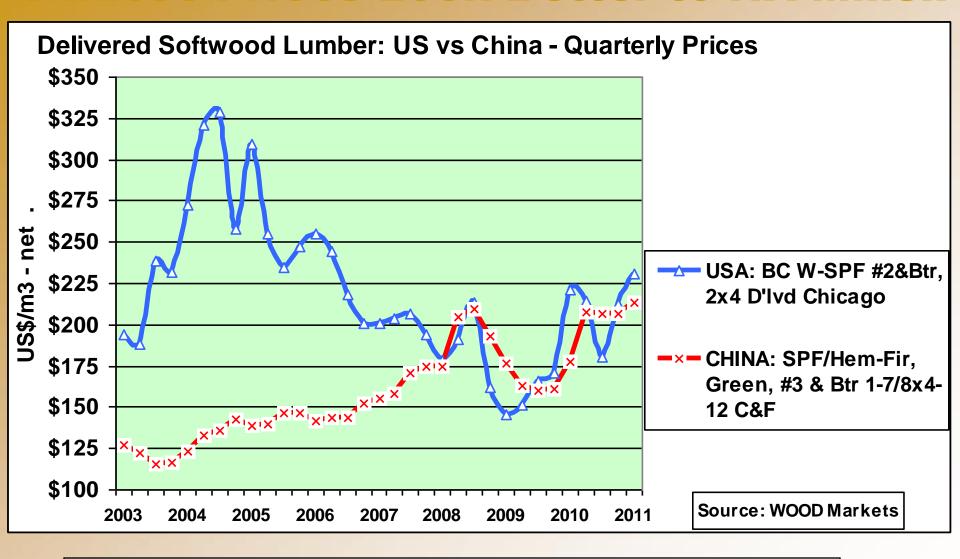
### **Domestic & Imported Lumber Prices Up**







### Chinese Prices Look Better to NA Mills...



BC, Oregon, Washington mills now running for China as it is possible to make money selling to China!



### China Impact on U.S. PNW Sawmills

- Logs are critical to China's employment levels,
   GDP growth and (JIT) supply chain, so more logs will be imported from the U.S., Canada, NZ, etc.
- Russia log supply is a wildcard due to number of political issues.
- China is able to match or outbid US PNW mills for logs at today's U.S. lumber prices. Current US PNW log price is about \$100/m3 (\$650/Mbf Scribner) or about \$165-\$175/m3 cif China port. Chinese mills are still profitable at this log price.
- Continuing pressure expected to continue on PNW log supply & prices, as China's sawmilling industry is hungry for increased log supply!

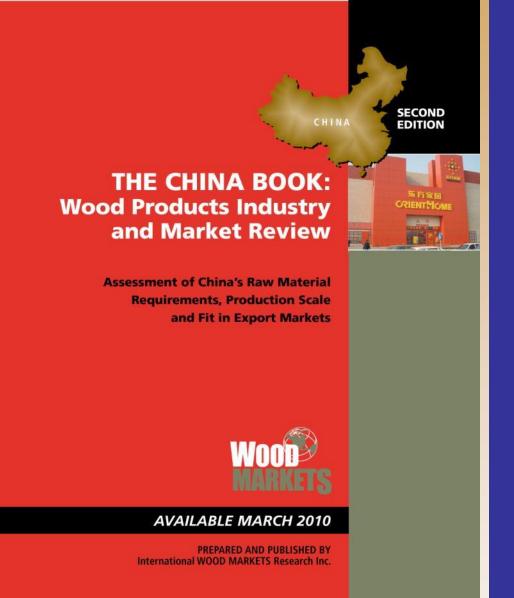
# Comparison of Logs processed in U.S. PNW vs. China Sawmills

**US PNW Logs: Domestic Mills vs Logs Processed in China** 

OO I WW Logs. Domestic wills vs Logs I locessed in Offina		
COST CATEGORY	US WEST COAST	CHINA SAWMILL
	SAWMILL	(Imported US Logs)
Log Cost - US\$/Mbf - Scribner	650	650
Log Conversion - Scribner to m3	6.5	6.5
Log Cost - US\$/m3	100	100
Ocean & Inland Freight Costs		55
Port and Handling Costs (both sides)		30
Total Delivered Log Costs - US\$/m3	100	185
Total Delivered Log Costs	ADVANTAGE	
Sawmill Recovery - Logs to Lumber		ADVANTAGE
Labour costs		ADVANTAGE
Other cash conversion costs		ADVANTAGE
<b>Total Costs</b>	ADVANTAGE	
Average By-Product Revenue	ADVANTAGE	
Average Lumber Revenue		ADVANTAGE
EBITDA Margin		ADVANTAGE
EBITDA Margin	SUBSTANTIAL LOSS	<b>MODEST GAIN</b>

Source: WOOD MARKETS - Global Timber / Sawmill / Lumber





# WOOD MARKETS' China Bulletin

**Monthly Since 2007** 

Featuring:
Industry Trends &
Analysis, Statistics

Import/Domestic Log, Lumber & Panel Prices



# **WOOD MARKETS: 2 Conferences:**

**CHINA Sept. 12-15:** 

China International SOFTWOOD Log & Lumber Trade Conference

Tianjin, China

September 15-16

Plus: Optional <u>3-Day</u>
<u>Tour</u> of Log Ports, Mills
and Distribution (Sept.
12-14)

# VANCOUVER BC May 9 2012:



### 2. Other Asian Market Impacts

- South Korea
  - Steady to increasing demand for logs and lumber.
- Japan
  - Rebuilding will increase demand for logs and lumber in 2012.
- India, Middle East, North Africa
  - Increasing demand but higher freight rates.
- Australia
  - New demand to rebuild flood damage.
- Outlook:
  - Strong demand drivers in Asia.



### BC INTERIOR

### Mountain Pine Beetle Attack

Impact and Outlook on BC Timber Availability and Wood Products Production

Photos courtesy of Forest Innovation Investment Ltd. and BC Ministry of Forests

#### Featuring

- A proprietary modeling of BC timber fibre availability by region and by year to 2028 under key assumptions
- A modeling of BC lumber and panel production by year
- An annual projection of the likely supply of wood residuals (for pulp, MDF, particleboard, bioenergy and wood pellets) in BC
- BC's declining lumber output and its impact on the supply/demand balance in North America
- A discussion of how higher lumber or timber prices will be required to fill the looming North American deficit
- An examination of how producing regions/countries should benefit



### 3. BC Interior: Mountain Pine Beetle Attack Report

Forecast: to 2028

The future of BC's harvest and wood products production produced by:

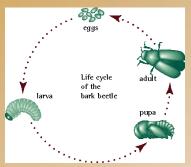
- Jim Girvan
- Murray Hall
- Russ Taylor
- Gerry Van Leeuwen

Released: Late March 2010







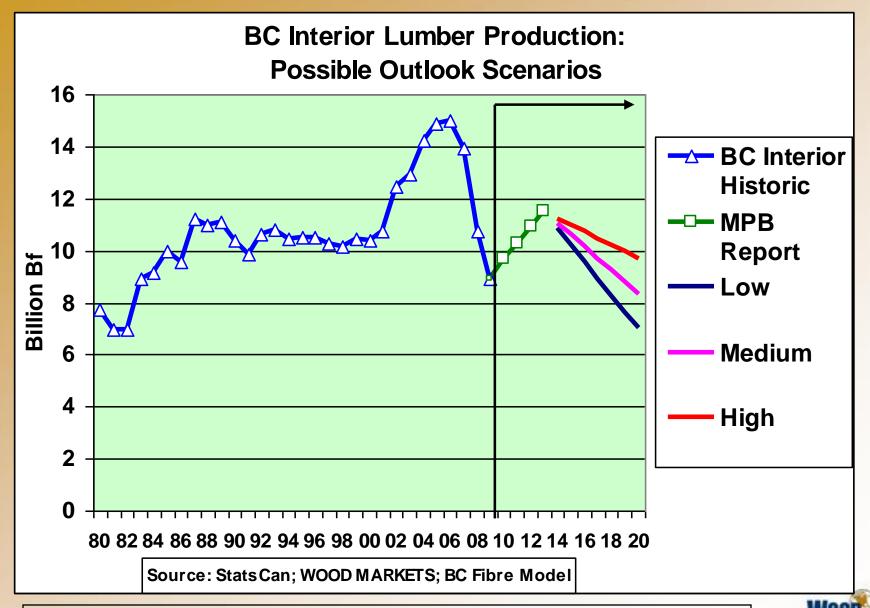




### **BC Mountain Pine Beetle**

- The mountain pine beetle damage:
  - ~ 675 million m3 dead in 2009 (50% of total BC pine) & 16.3 million hectares;
  - = 14x B.C. Interior's annual harvest.
  - Likely will peak by killing 900 million m3 by 2022 = 70% of B.C.'s total pine & reducing the log harvest & sawnwood output by 20-30% of historical levels.
- Is now in ALBERTA and is moving east...
- The MPB = some impact on structural lumber properties (MSR now an issue), but looks different blue stain & checking = problem for Japan (and some US) sales.

### **BC Interior: Lumber & MPB**



From the publishers of WOOD MARKETS MONTHLY INTERNATIONAL REPORT, WOOD MARKETS 1996, 2000, 2002, 2006, 2010 and many other strategic industry reports

# WOOD MARKETS

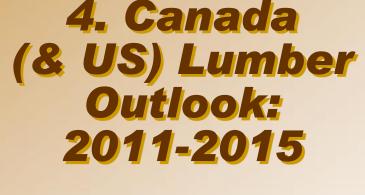
The Solid Wood Products Outlook • 2011 to 2015

A DETAILED ANALYSIS OF THE NORTH AMERICAN WOOD PRODUCTS MARKET

COVERING: Lumber, OSB, Plywood, MDF and Particleboard

FEATURING: A Five-Year Outlook for Supply, Demand and Prices, including Mill Operating Rates

> INCLUDING: An Economic Analysis of the U.S. Housing-Market Recovery and the Key Demand Drivers



Excerpts from our latest 5-year forecast

Outlook for Lumber & Panel Products

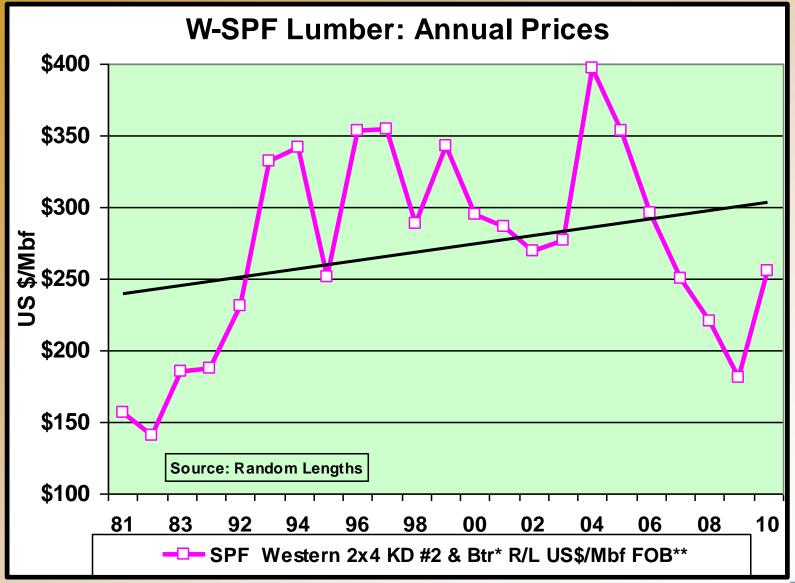


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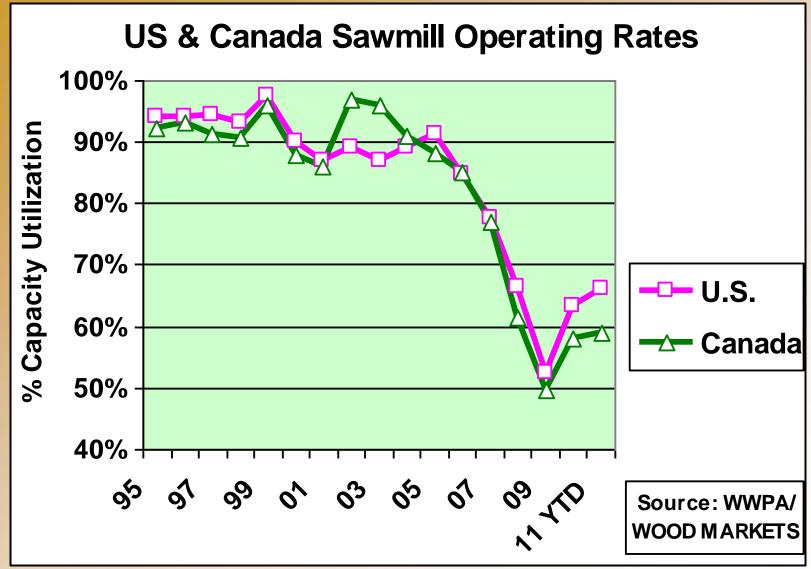
### US Lumber Prices = Below Normal



Need US \$250+/Mbf for profitable operations at "average" mill

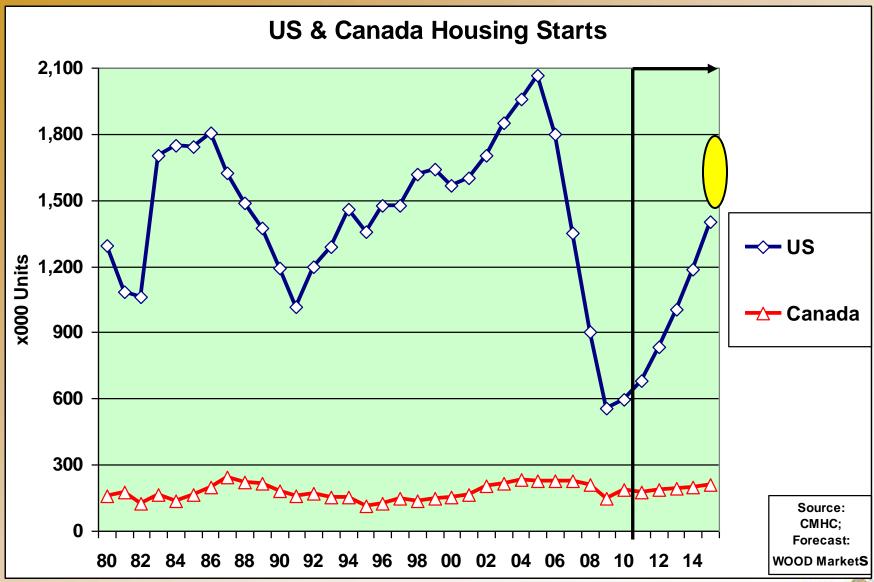


# **US & Canada Sawmill Operating Rates**





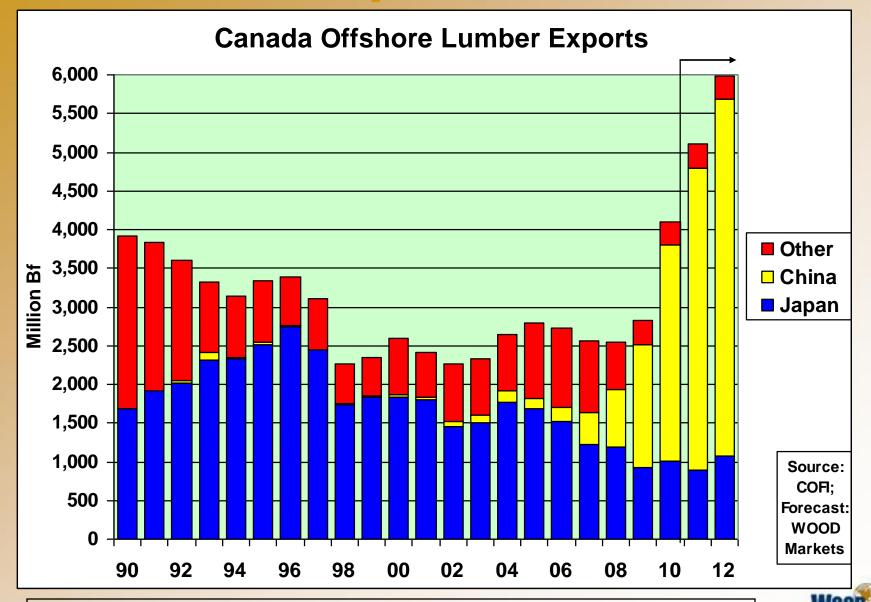
### **US & Canada Housing Market: Forecast**



Gradually accelerating growth, but 2011 probably flat vs. 2010

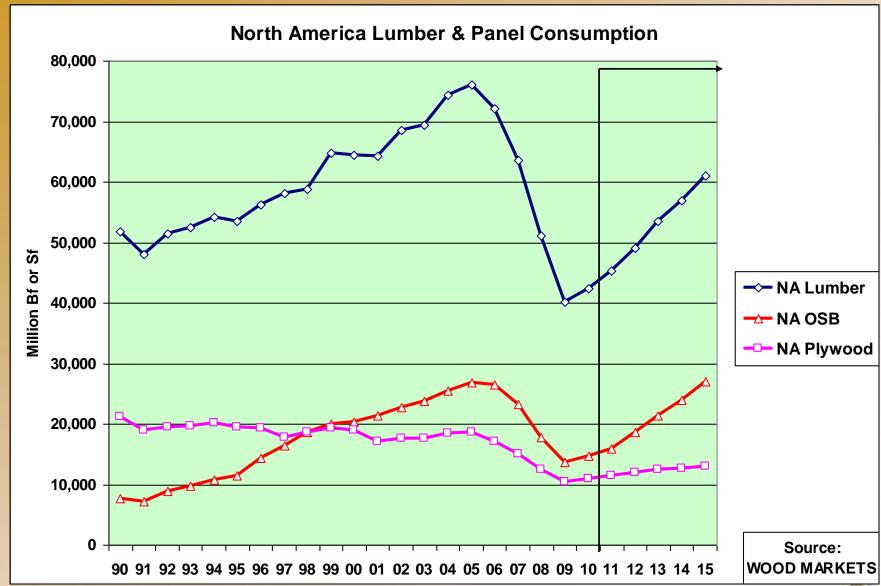


### BC Lumber Exports to China = Soar



**Huge upside for BC lumber in China until US market soars** 

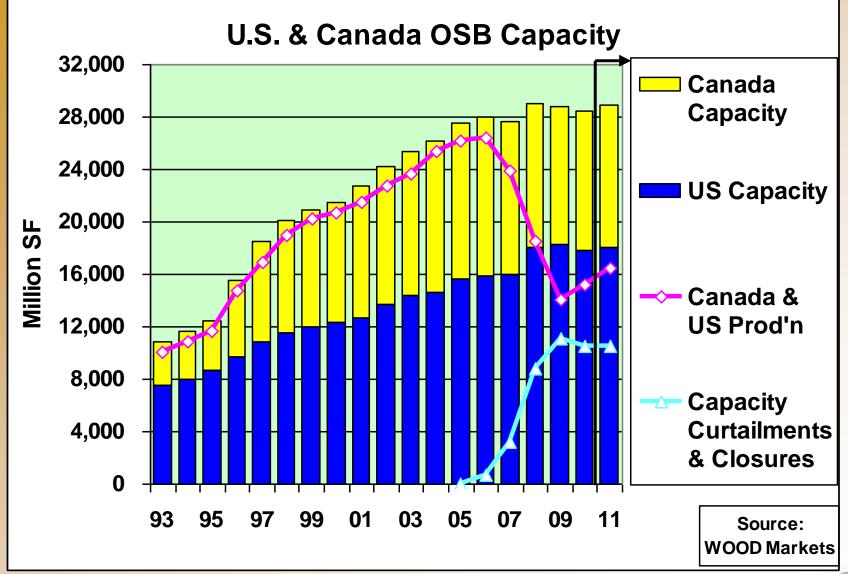
### NA Wood Products Consumption: Up!





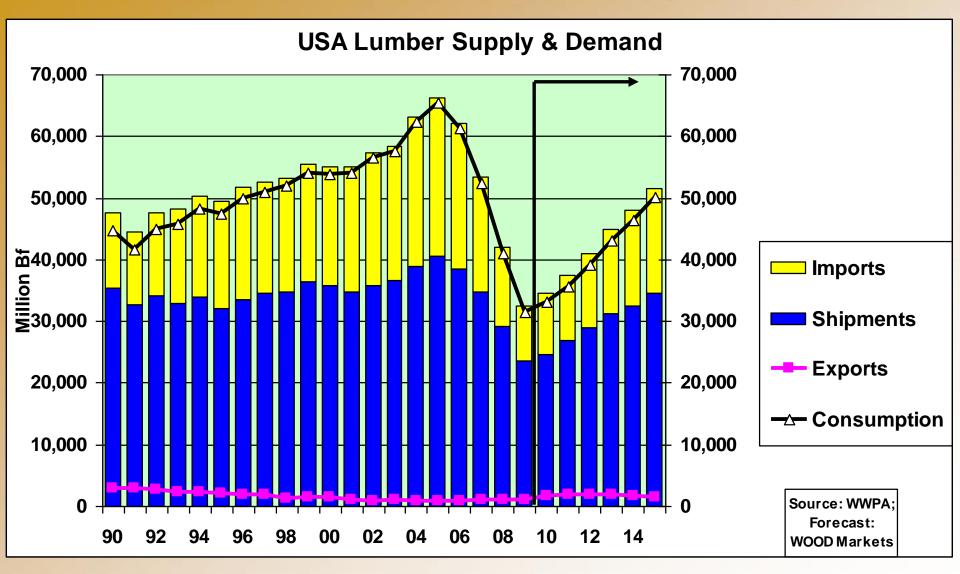


### **OSB Operating Rates to Lag Lumber**





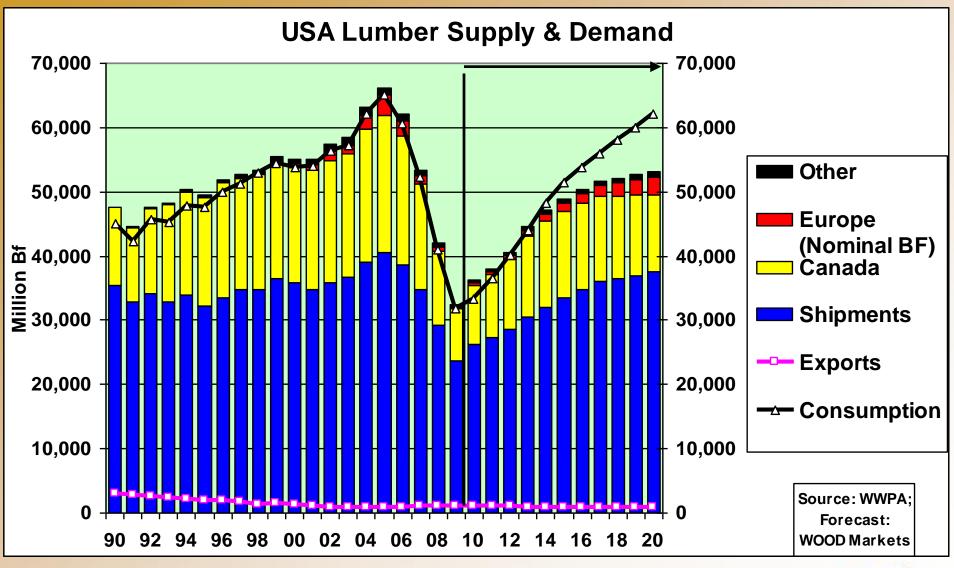
### **US Lumber Outlook to 2015**



Based on the US demand outlook, output + imports rise



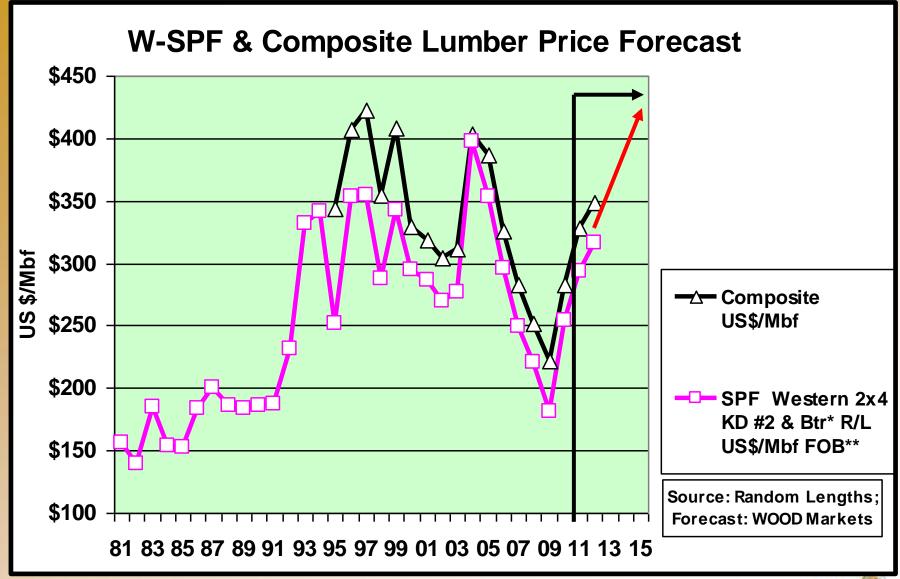
## Potential Scenario 2020 = Lumber Gap



Gap will require higher prices for logs, imported lumber, etc.



# 5. US Prices to Soar by 2013-14





### North America Lumber Outlook

- Slow recovery in new residential housing market
- Tightening timber supplies:
  - BC, Quebec, role of TIMOs = tighter supply
  - Increased demand for logs in China, Asia
- Increased lumber demand:
  - Slowly in North America as new residential housing market slowly rebounds
  - High export demand in China = to continue
  - Increasing in Asia, Middle East, North Africa
- U.S. demand will start to outstrip supply ~2014
- Reduced sawmill capacity in the US and Canada
- Higher and very strong prices forecast!

# **Thank You!**

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